AIR SCIENCES INC.

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Baseline Meteorological and Air Quality Data Report Resolution Copper Mining Project

October 1 – December 31, 2013

PREPARED FOR:
RESOLUTION COPPER
A MEMBER OF RIO TINTO GROUP

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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 fourth quarter, October 1 – December 31, 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

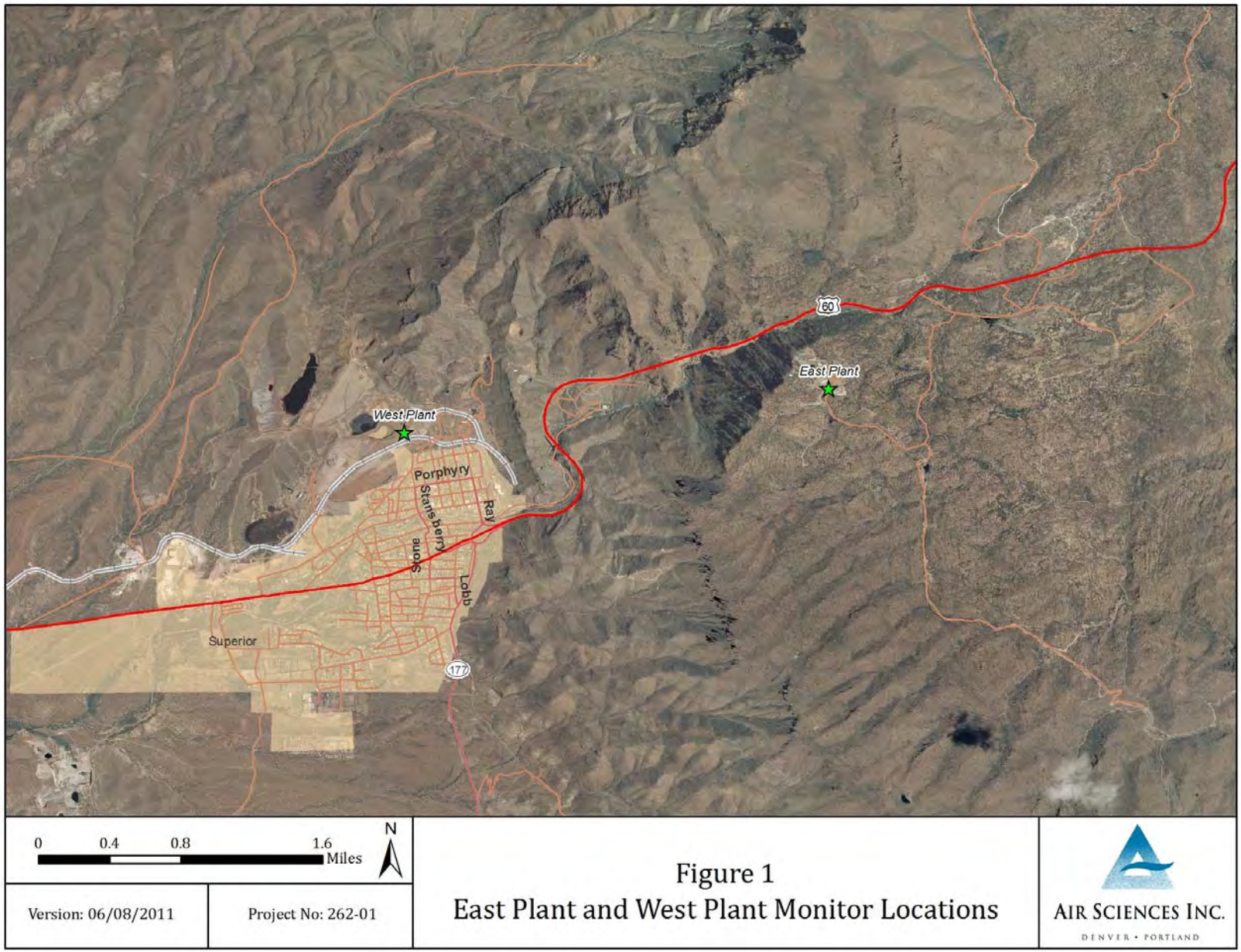
The Resolution Copper Project is located near Superior, Arizona. Currently there are two meteorological and air quality stations. The East Plant station is located at the main project site, east of Superior. The West Plant station is located at RCML's facilities directly north of Superior, Arizona. The 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 October 1 through December 31, 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 October 1 through December 31, 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 October 1 through December 31, 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 October 1 through December 31, 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_{10} FEM, which holds the EPA designation (EQPM-0798-122). 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 October 1 through December 31, 2013.

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
October 1 – December 31, 2013
(percent)

	East Plant		West Plant		
Parameter*	**Recorded Observations**	**Recovery Rate**	**Recorded Observations**	**Recovery Rate**	**Minimum Required Recovery Rate**
Meteorological					
Wind speed (10 m)	2,208	100	2,208	100	90
Wind direction (10 m)	2,208	100	2,208	100	90
Temperature (2 m)	2,208	100	2,208	100	90
Delta temperature	2,208	100	2,208	100	90
Relative humidity	2,208	100	2,208	100	90
Barometric pressure	2,208	100	2,208	100	90
Precipitation	2,208	100	2,208	100	90
Solar radiation	2,208	100	2,208	100	90
NO_2	87	94.6	--	--	75
O_3	91	98.9	--	--	75
SO_2	91	98.9	--	--	75
PM_{10}	92	100	90	97.8	75
$PM_{2.5}$	90	97.8	90	97.8	75

*Meteorological parameters are observed hourly (2,208 hours in this period).
NO_2, O_3, SO_2, and PM parameters are observed every 24 hours (92 days in this period).

2.1 Data Loss

2.1.1 Meteorological Data Loss

2.1.1.1 East Plant

No meteorological data were invalidated at the East Plant station for this quarter.

2.1.1.2 West Plant

No meteorological data were invalidated at the West Plant station for this quarter.

2.1.2 NO_2 Data Loss

NO_2 24-hour maximum data were invalidated for October 9, 2013, due to a calibration performed by Air Sciences. Data were also invalidated from December 27 through December 30, 2013, due to daily zero/span check results outside of accepted parameters.

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 October 9, 2013, due to a calibration performed by Air Sciences.

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 October 9, 2013, due to a calibration performed by Air Sciences.

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

Hourly PM_{10} data were invalidated on October 8, 2013, due to maintenance and a calibration performed by Air Sciences.

Hourly $PM_{2.5}$ data were invalidated on October 8, 2013, due to maintenance and a calibration performed by Air Sciences. From December 12 to December 13, 2013, 18 hours of $PM_{2.5}$ data are invalid due to a tape break error.

Additional invalid hourly PM data at the East Plant were due to monthly flow verifications, regularly scheduled maintenance, power outages, and internal instrument errors.

2.1.5.2 West Plant

Hourly PM_{10} data were invalidated on October 8, 2013, due to maintenance and a calibration performed by Air Sciences.

Hourly $PM_{2.5}$ data were invalidated on October 8, 2013, due to maintenance and a calibration performed by Air Sciences. Tape break errors resulted in 14 hours of invalid $PM_{2.5}$ data from October 28 to October 29, 2013, and 8 hours of invalid $PM_{2.5}$ data on December 13, 2013.

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

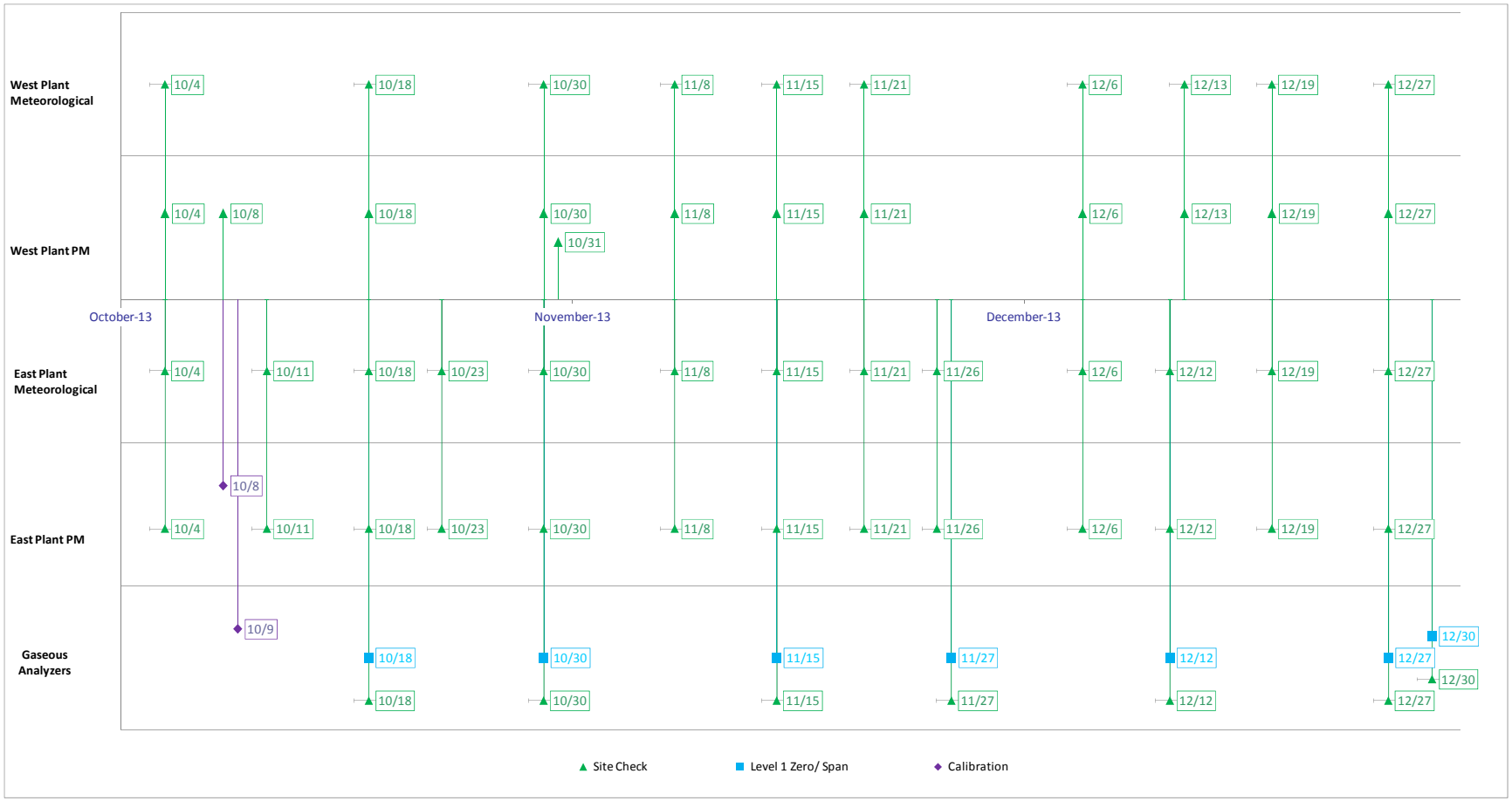
2.2 Quality Control

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-13-003, May 2013)
- 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 calibrations of the particulate and air quality analyzers between October 8, and October 9, 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
October 1- December 31, 2013



3.0 METEOROLOGICAL DATA SUMMARY AND DISCUSSION

3.1 Meteorological Data Summary

Meteorological data from the fourth 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.

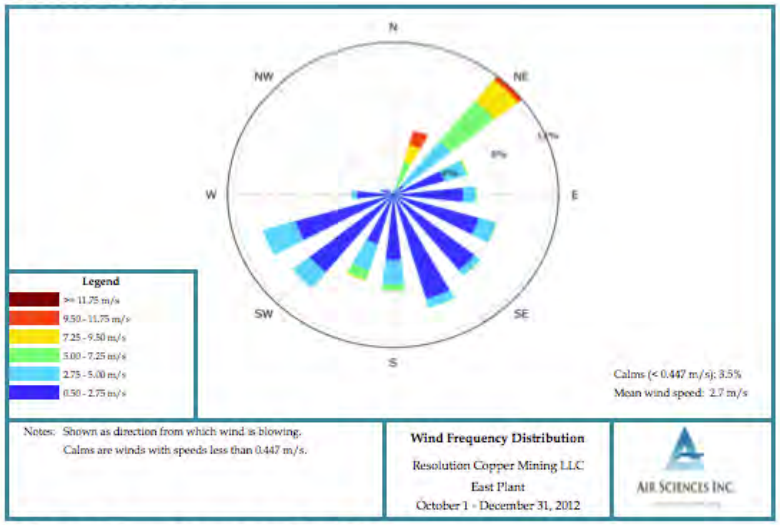
Wind Frequency Table – A two-part table. The left part of the Wind Frequency Table shows the percentage of occurrence of winds for each of the 16 directions that occur in each of the six Wind Speed Class Intervals. The right part shows the percentage of occurrence of winds for each of the 16 directions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

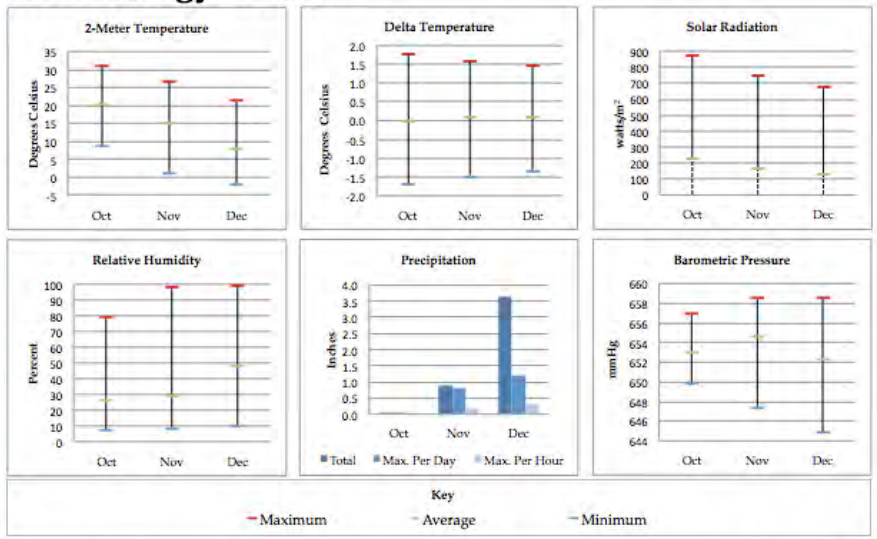
Instantaneous Wind Frequency and Maximum Chart – Graphically summarizes instantaneous (two-second) wind speeds as a percentage of occurrences for each of the nine wind speed intervals and the magnitude, date, and time of the maximum instantaneous wind speed for each month.

Figure 3. Example Schematic of Meteorological Data Sheets

Wind Rose



Meteorology Charts



Wind Frequency Tables

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	Stability Class 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

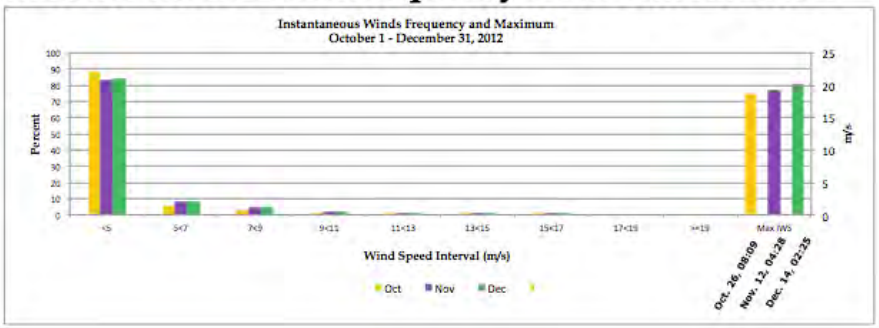
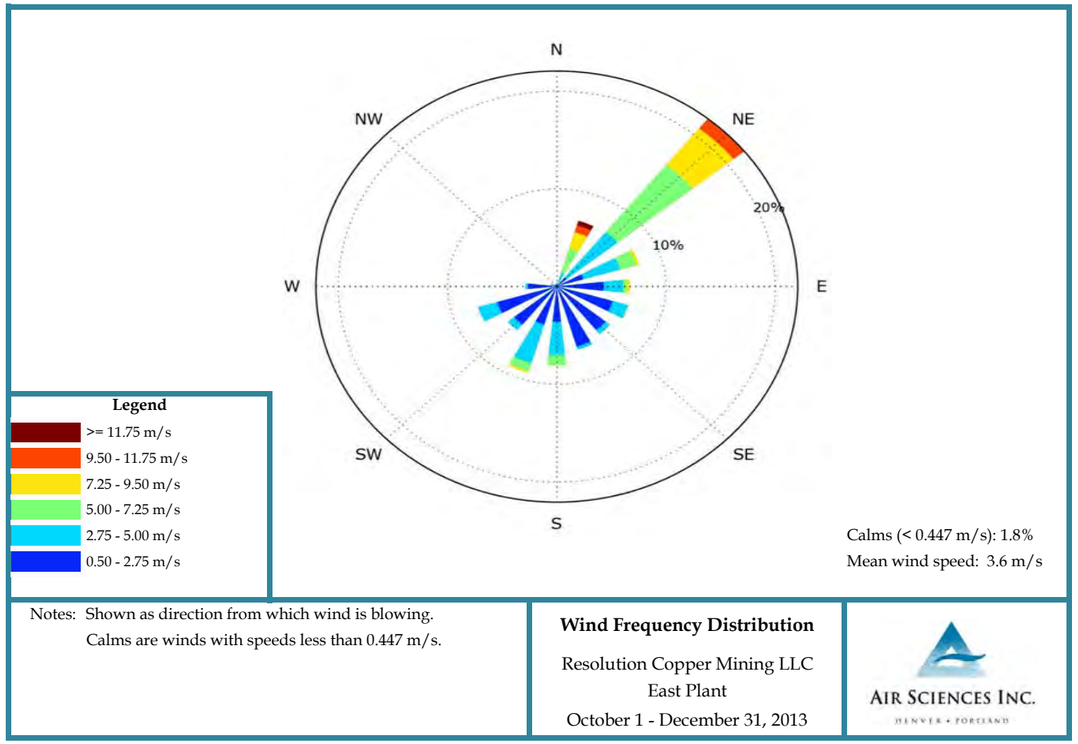
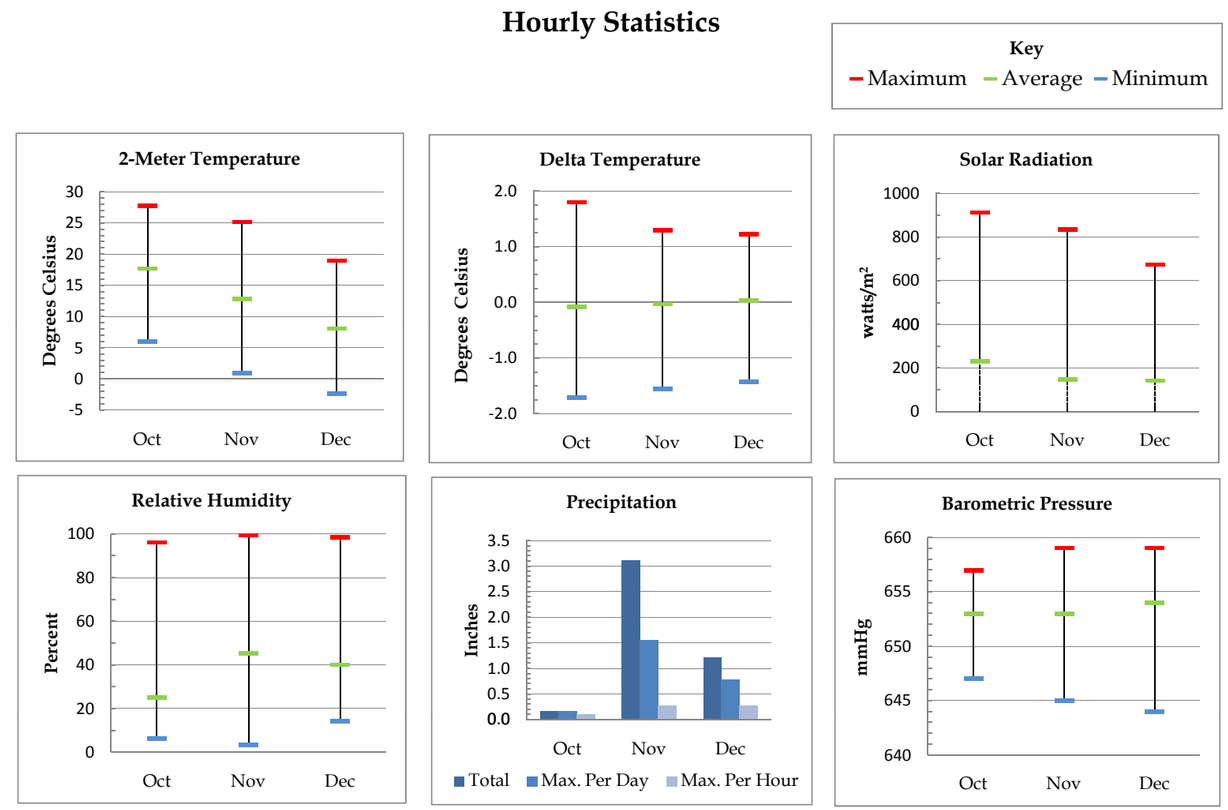


Figure 4: East Plant Meteorological Data Summary

Meteorological Data: October 1 - December 31, 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	0.1	0.1	0.1	0.0	0.0	0.0	0.4	2.3
NNE	0.0	0.4	1.0	2.4	2.1	1.0	7.0	7.2
NE	0.2	1.2	5.8	8.0	6.3	0.7	22.1	6.0
ENE	0.5	2.7	2.9	1.4	0.4	0.0	7.8	3.7
E	1.8	2.8	1.5	0.3	0.3	0.0	6.7	2.7
ESE	2.3	3.6	1.0	0.0	0.0	0.0	6.8	2.0
SE	3.7	2.1	0.5	0.0	0.0	0.0	6.3	1.5
SSE	4.6	2.0	0.1	0.0	0.0	0.0	6.7	1.3
S	1.7	2.5	2.9	1.0	0.0	0.0	8.1	3.0
SSW	0.9	3.6	3.7	0.8	0.2	0.0	9.2	3.2
SW	1.3	4.1	0.4	0.0	0.0	0.0	5.8	2.1
WSW	1.5	4.6	1.4	0.0	0.0	0.0	7.5	2.3
W	1.0	1.8	0.0	0.0	0.0	0.0	2.9	1.8
WNW	0.2	0.3	0.1	0.0	0.0	0.0	0.6	2.0
NW	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.9
NNW	0.1	0.1	0.0	0.0	0.0	0.0	0.3	1.3
All	20.1	31.7	21.5	14.0	9.2	1.7	98.2	3.6

Stability Class D	A	B	C	D	E	F	All
N	0.0	0.1	0.1	0.0	0.0	0.1	0.4
N	0.0	0.2	1.0	5.7	0.0	0.0	7.0
N	0.0	0.3	2.3	18.9	0.3	0.3	22.1
E	0.0	0.0	0.9	5.0	1.2	0.7	7.9
E	0.0	0.3	1.1	2.6	1.1	1.8	6.9
E	0.0	0.5	1.2	1.7	1.4	2.1	7.0
S	0.0	0.3	0.4	1.1	1.1	3.7	6.7
S	0.0	0.2	0.5	0.7	1.1	4.7	7.2
S	0.0	0.5	2.1	3.1	0.5	1.9	8.2
S	0.0	1.1	2.4	3.8	1.0	1.0	9.3
S	0.0	1.4	1.6	0.8	0.7	1.3	5.9
W	0.0	1.0	1.5	2.6	0.9	1.6	7.6
W	0.0	0.4	0.1	0.2	1.0	1.2	2.9
W	0.0	0.0	0.1	0.1	0.0	0.3	0.6
N	0.0	0.0	0.0	0.0	0.0	0.2	0.2
N	0.0	0.0	0.0	0.0	0.1	0.1	0.3
A	0.3	6.5	15.5	46.3	10.4	21.1	100.0

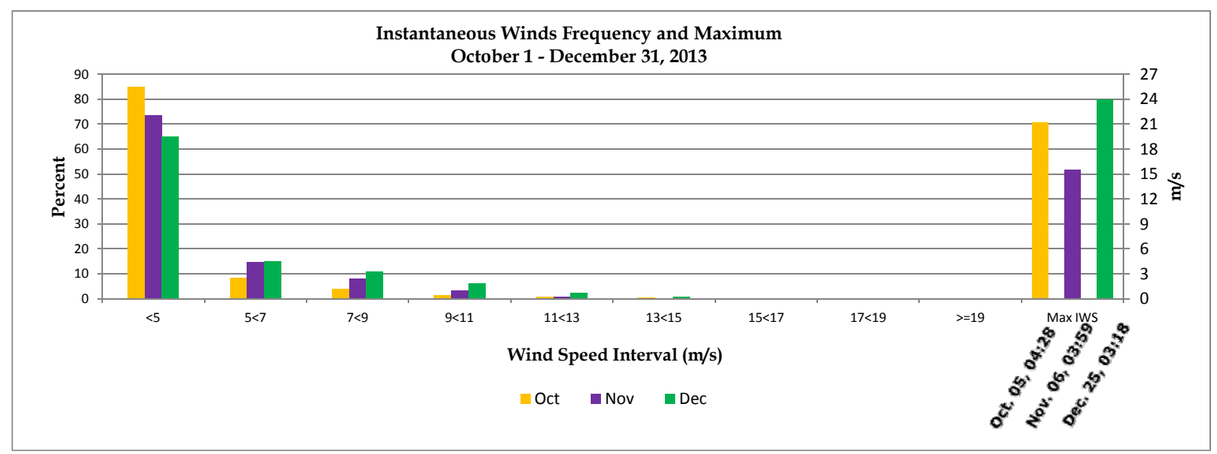
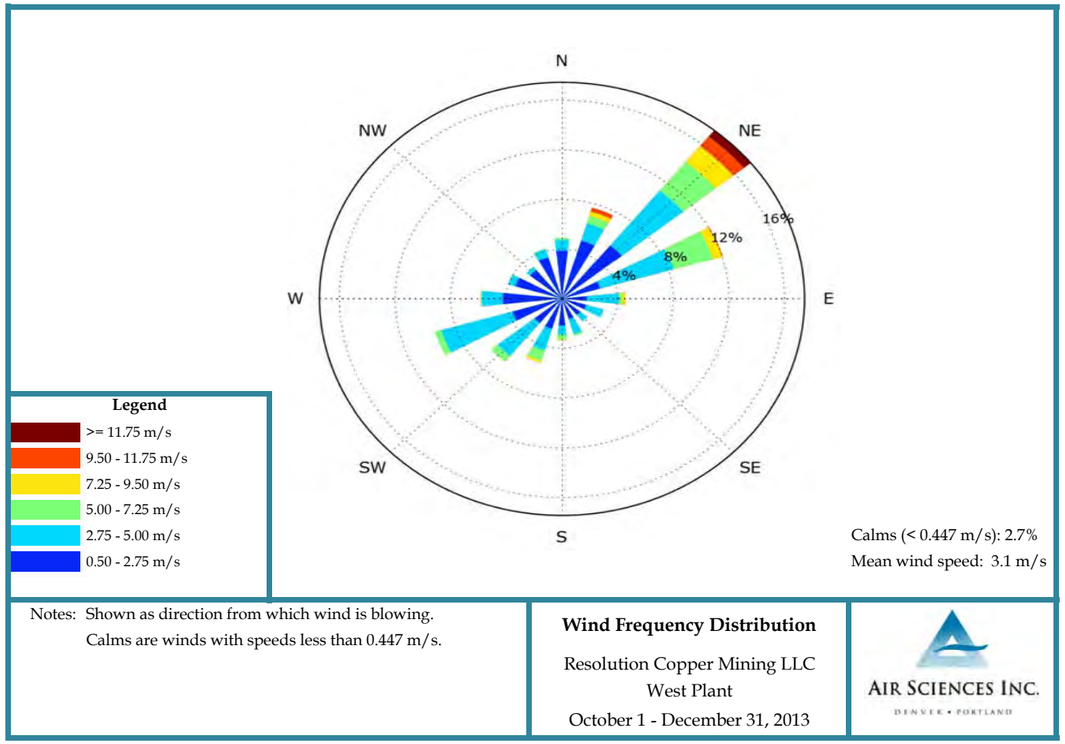
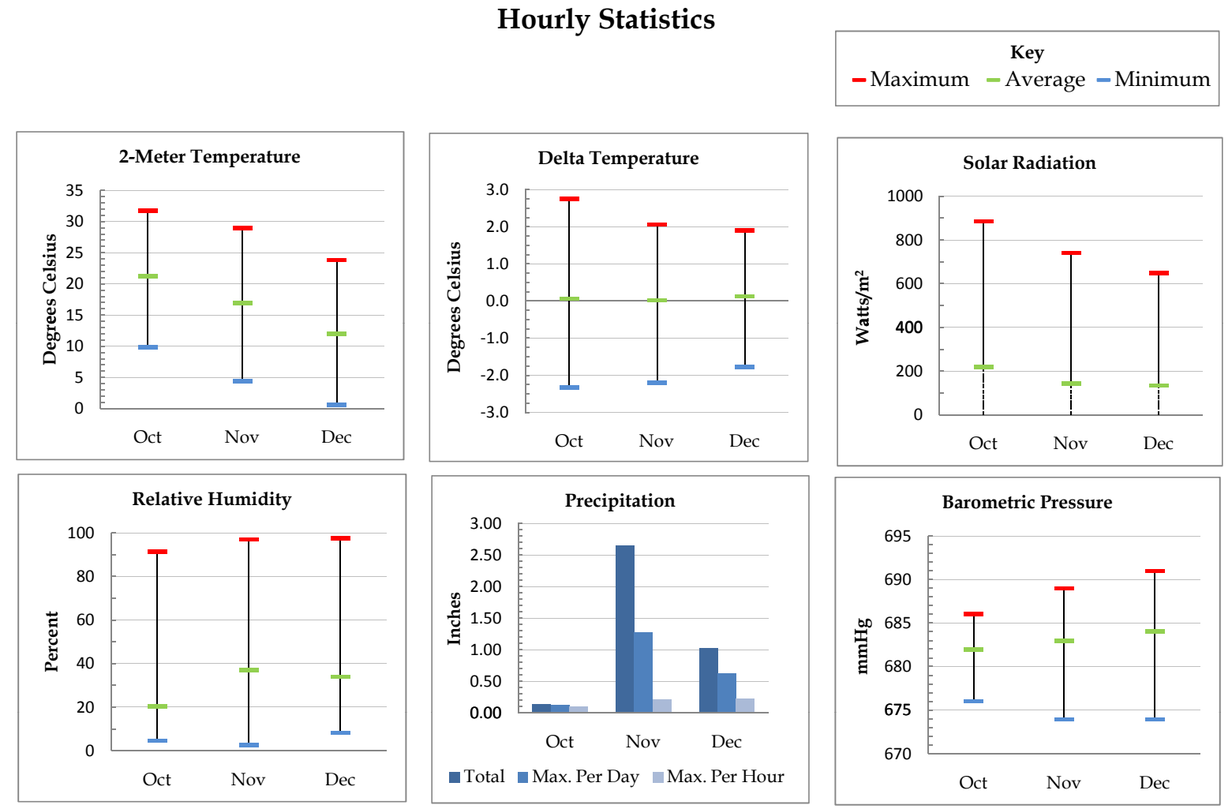


Figure 5: West Plant Meteorological Data Summary

Meteorological Data: October 1 - December 31, 2013

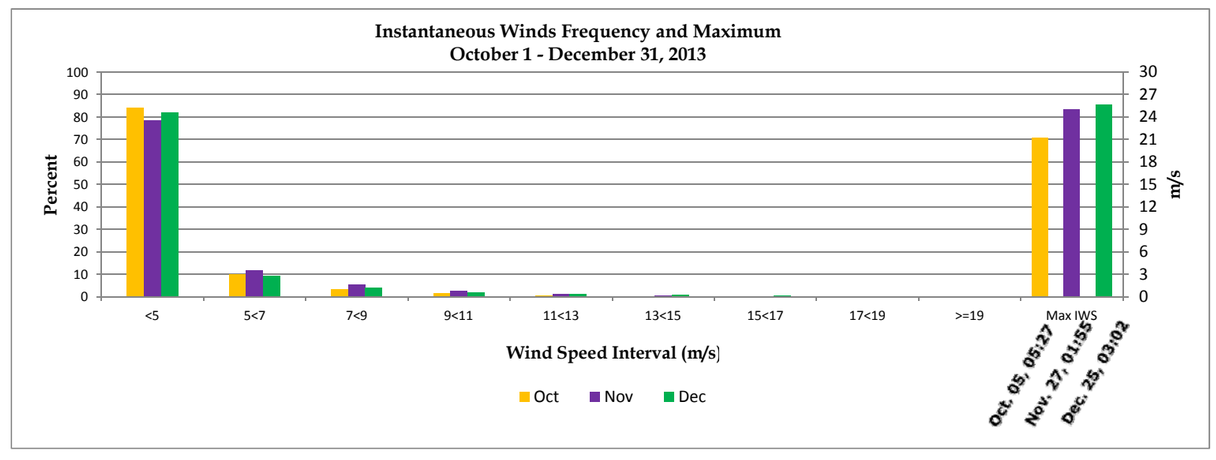


Hourly Statistics



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	2.9	1.0	0.8	0.1	0.0	0.0	4.9	1.8
NNE	2.8	2.2	1.3	0.6	0.4	0.3	7.7	2.9
NE	2.9	3.4	4.9	2.8	2.1	1.4	17.4	4.7
ENE	1.2	2.2	5.0	2.9	0.7	0.0	12.0	4.2
E	0.6	1.4	2.1	0.3	0.2	0.0	4.6	3.3
ESE	1.0	1.3	0.9	0.0	0.0	0.0	3.1	2.3
SE	0.7	1.0	0.6	0.0	0.0	0.0	2.4	2.3
SSE	0.9	1.0	1.2	0.1	0.0	0.0	3.1	2.6
S	0.8	1.7	0.5	0.4	0.0	0.0	3.4	2.7
SSW	1.1	1.8	1.5	0.9	0.2	0.0	5.4	3.3
SW	0.8	2.4	2.7	0.5	0.0	0.0	6.5	3.2
WSW	1.0	3.4	4.6	0.5	0.0	0.0	9.5	3.0
W	2.1	2.4	1.2	0.1	0.0	0.0	5.8	2.1
WNW	2.6	1.0	0.4	0.0	0.0	0.0	4.0	1.5
NW	2.3	0.7	0.3	0.0	0.0	0.0	3.3	1.4
NNW	2.3	1.3	0.6	0.0	0.0	0.0	4.2	1.7
All	26.0	28.1	28.5	9.2	3.7	1.7	97.3	3.1

Stability Class D	A	B	C	D	E	F	All
N	0.0	0.0	0.4	0.8	0.7	3.2	5.2
N	0.0	0.1	0.5	2.6	1.0	3.8	8.1
N	0.0	0.3	1.4	10.3	1.9	3.8	17.7
E	0.0	0.2	2.1	7.9	0.9	1.1	12.1
E	0.0	0.1	1.1	2.2	0.4	0.8	4.7
E	0.0	0.2	1.1	0.8	0.4	0.7	3.2
S	0.0	0.2	1.2	0.4	0.4	0.2	2.4
S	0.1	0.6	1.3	0.7	0.4	0.1	3.2
S	0.1	0.9	1.2	0.7	0.4	0.2	3.4
S	0.1	1.0	1.5	2.1	0.5	0.2	5.4
S	0.0	0.8	2.5	2.5	0.4	0.3	6.5
W	0.1	1.3	3.1	3.8	0.7	0.6	9.6
W	0.0	0.4	1.0	1.7	1.5	1.3	6.0
W	0.0	0.0	0.1	0.9	1.2	2.0	4.2
N	0.0	0.0	0.1	0.4	0.7	2.6	3.8
N	0.0	0.1	0.5	0.6	0.9	2.5	4.6
A	0.5	6.2	19.3	38.4	12.4	23.3	100.0



3.2 Meteorological Data Discussion

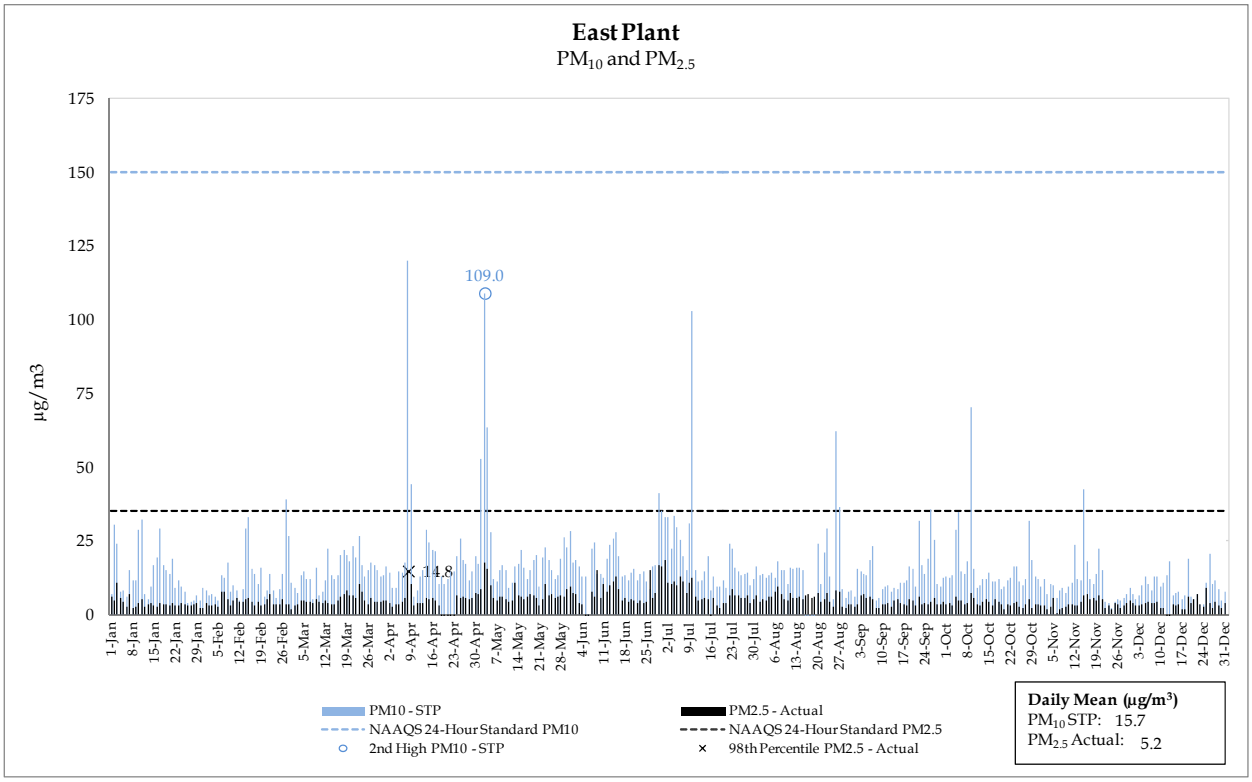
The meteorological data collected at the East and the West Plant sites for the fourth quarter of 2013 met all data recovery objectives.

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, and compares the data to the PM_{10} and $PM_{2.5}$ NAAQS. 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.

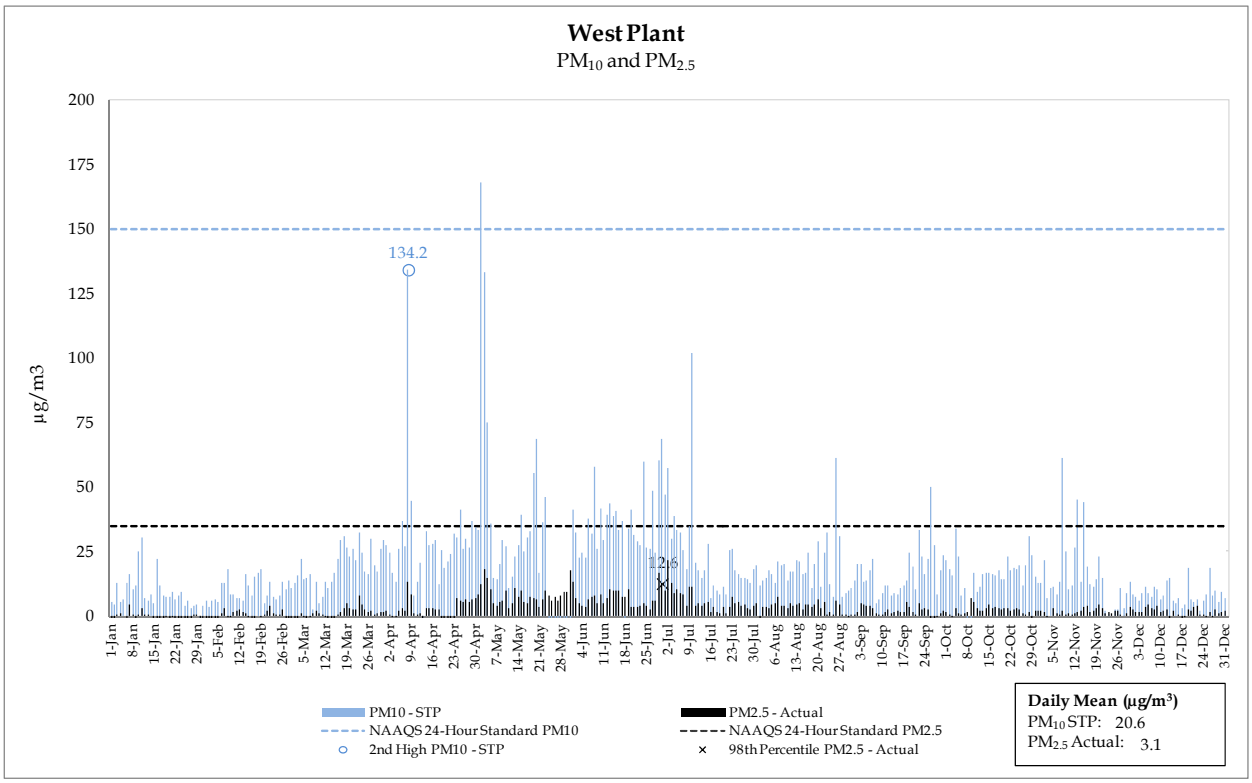
Figure 6. East Plant Particulate Data



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, and compares the data to the PM_{10} and $PM_{2.5}$ NAAQS. 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/m^3 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/m^3 is equal to or less than one (second-high value).

As shown in Figure 6 and Figure 7, the second-high PM_{10} concentrations recorded at the East and West Plants are 109.0 µg/m^3 and 134.2 µg/m^3, respectively. Both the East and West Plants' second-high values are below the NAAQS of 150 µg/m^3.

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, arithmetic mean concentrations for the East and West Plants are 5.2 and 3.1 $\mu g/m^3$, 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 98th percentile concentrations at the East and West Plants, which were 14.8 and 12.6 $\mu g/m^3$, respectively. The 98th 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. 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

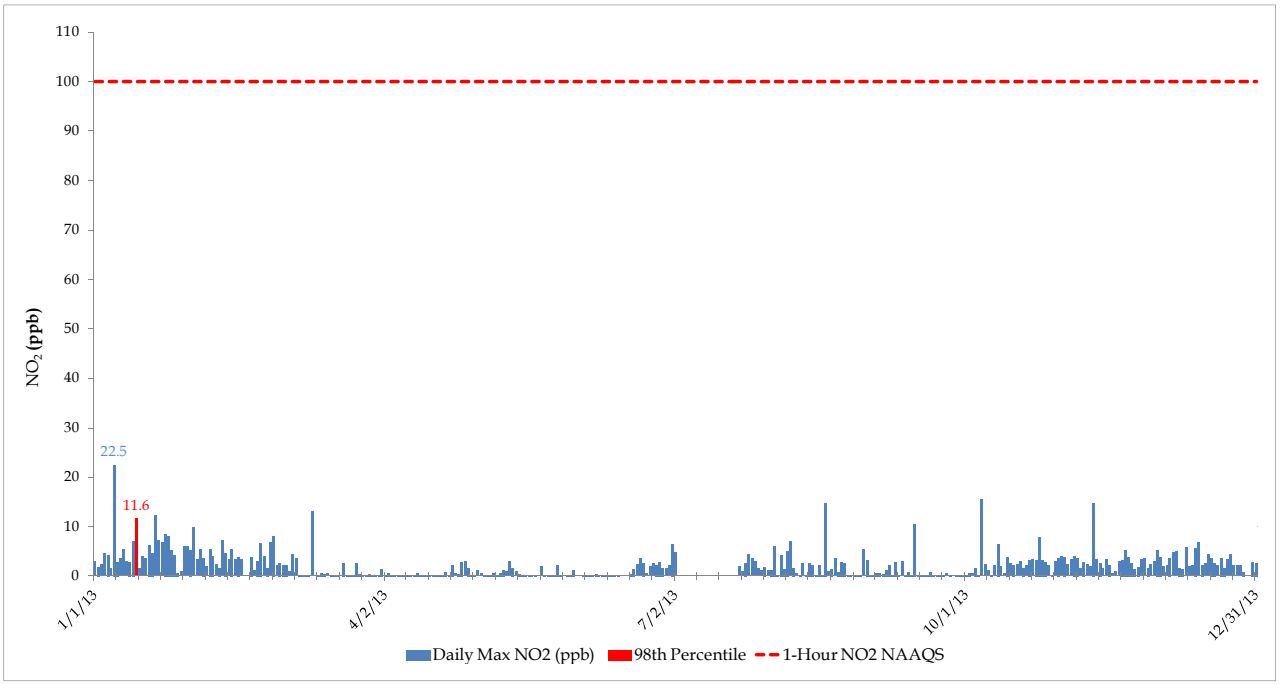
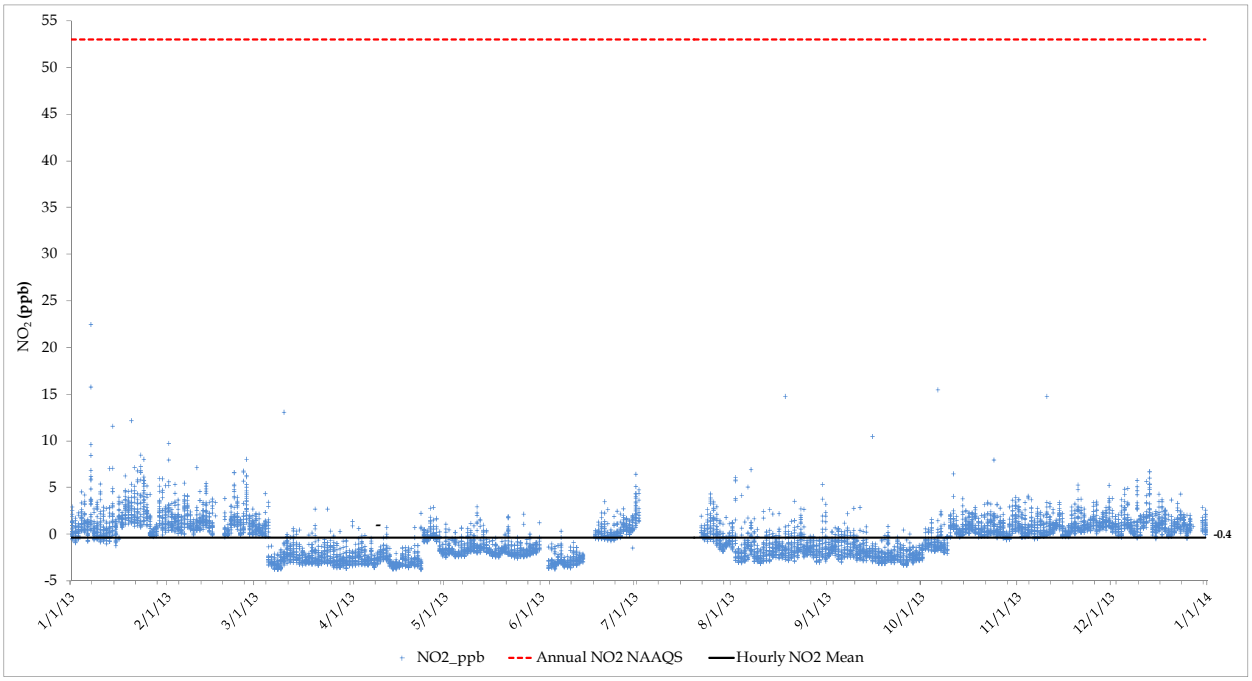


Figure 9. NO_2 Mean Hourly Concentrations



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 is 11.6 ppb, which is less than the NAAQS 1-hour primary standard of 100. As shown in Figure 9, the 2013 hourly NO_2 average is -0.4 ppb, which is below the annual NO_2 NAAQS of 53 ppb.

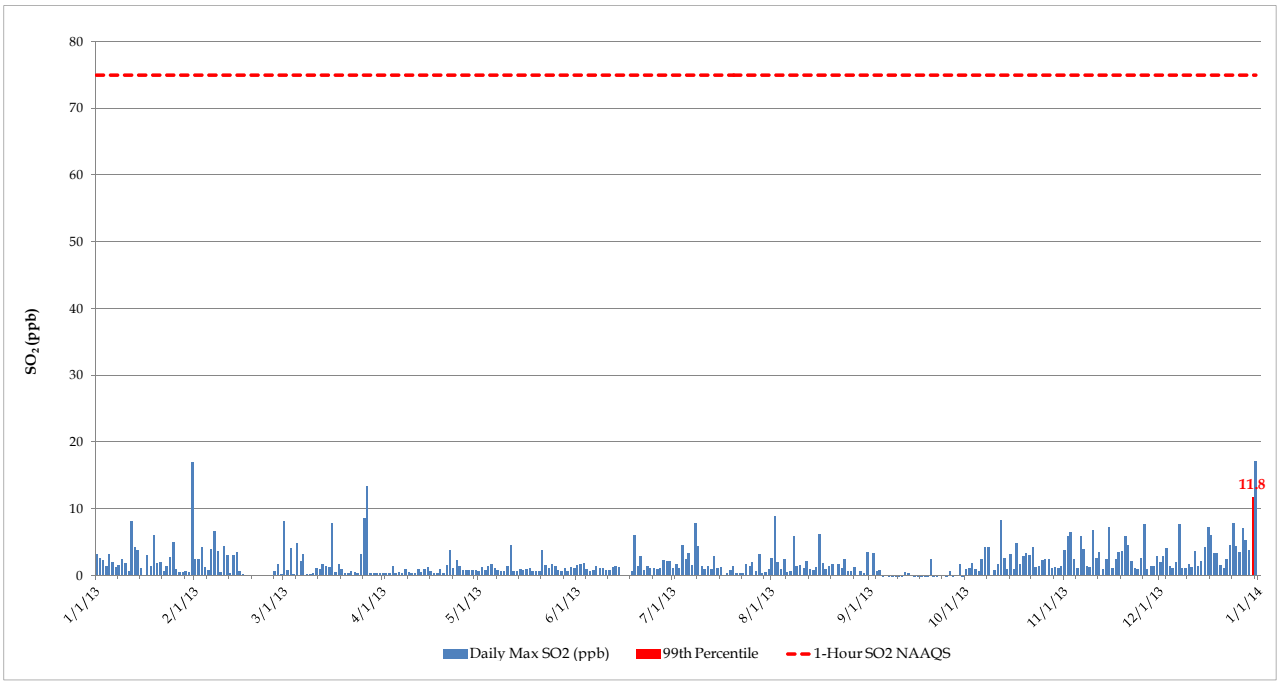
Actual comparison to the NAAQS requires three calendar years of monitoring data, which have not been obtained at this time.

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, 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



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 is 11.8 ppb, which is below the annual SO_2 NAAQS of 75 ppb.

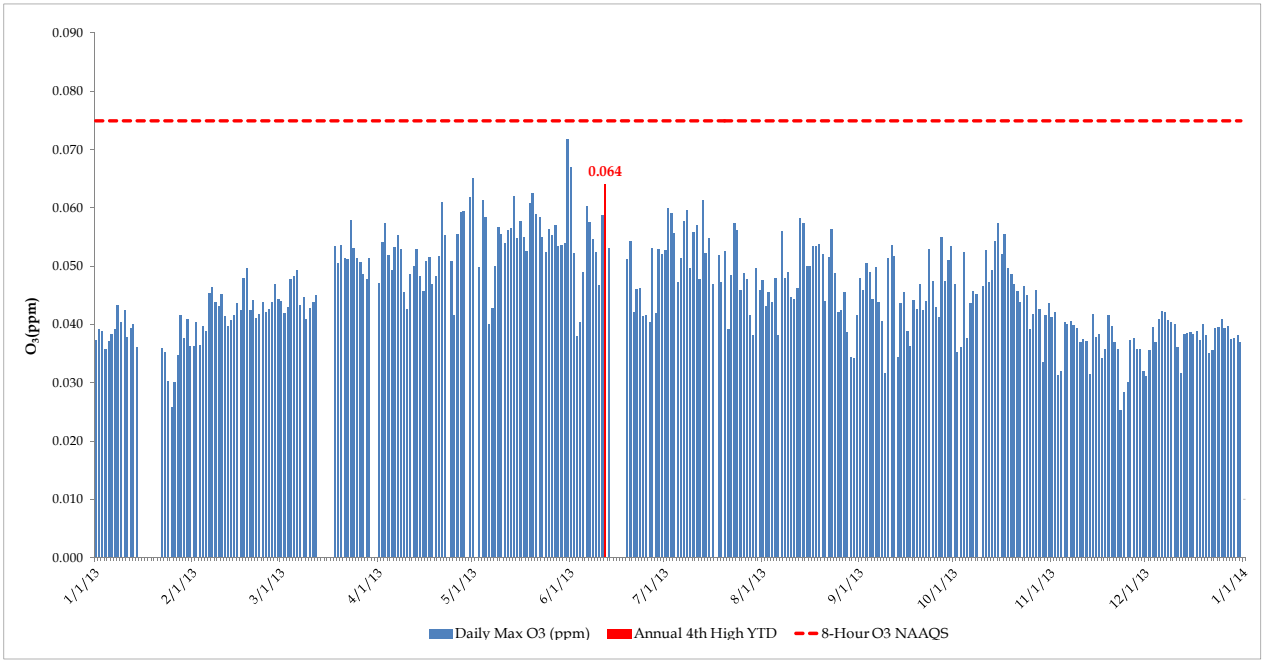
Actual comparison to the NAAQS requires three calendar years of monitoring data, which have not been obtained at this time.

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, and it shows the first-highest rolling 8-hour average compared to the eight-hour O_3 standard.

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



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 averaged fourth-high maximum recorded at the East Plant 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
10/01/13 - 12/31/13
(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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	16.7	0.0	0.0	0.0	0.0	0.0	16.7	1.5
SE	0.0	16.7	0.0	0.0	0.0	0.0	16.7	1.8
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	16.7	0.0	0.0	0.0	0.0	16.7	1.9
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	16.7	0.0	0.0	0.0	0.0	16.7	1.5
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	16.7	0.0	0.0	0.0	0.0	16.7	1.6
WNW	0.0	16.7	0.0	0.0	0.0	0.0	16.7	1.9
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All	16.7	83.3	0.0	0.0	0.0	0.0	100.0	1.7

Calms (< 0.447 m/s): 0.0%
Mean wind speed: 1.7 m/s
Percent Occurence for this Stability Class: 0.3%

Frequency of Winds By Direction and Speed - 10m
Stability Class B
East Plant, Resolution
10/01/13 - 12/31/13
(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	0.7	0.7	0.0	0.0	0.0	1.4	3.7
NNE	0.0	1.4	1.4	0.0	0.0	0.0	2.8	3.5
NE	0.0	4.2	0.7	0.0	0.0	0.0	4.9	2.2
ENE	0.0	0.7	0.0	0.0	0.0	0.0	0.7	2.0
E	0.7	1.4	2.1	0.0	0.0	0.0	4.2	3.4
ESE	2.8	1.4	3.5	0.0	0.0	0.0	7.7	2.5
SE	0.0	2.1	2.8	0.0	0.0	0.0	4.9	2.8
SSE	0.0	2.8	0.0	0.0	0.0	0.0	2.8	1.9
S	0.7	4.2	3.5	0.0	0.0	0.0	8.4	3.0
SSW	0.0	9.8	7.7	0.0	0.0	0.0	17.5	2.9
SW	0.0	22.4	0.0	0.0	0.0	0.0	22.4	2.3
WSW	1.4	12.6	2.1	0.0	0.0	0.0	16.1	2.4
W	0.7	4.9	0.0	0.0	0.0	0.0	5.6	2.3
WNW	0.0	0.7	0.0	0.0	0.0	0.0	0.7	1.9
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All	6.3	69.2	24.5	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: 6.5%

Frequency of Winds By Direction and Speed - 10m
Stability Class C
East Plant, Resolution
10/01/13 - 12/31/13
(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	0.3	0.0	0.0	0.0	0.6	3.0
NNE	0.0	0.9	3.8	2.0	0.0	0.0	6.7	4.4
NE	0.0	1.8	12.9	0.3	0.0	0.0	14.9	4.0
ENE	0.6	1.5	3.5	0.3	0.0	0.0	5.8	3.3
E	2.3	2.6	2.0	0.3	0.0	0.0	7.3	2.5
ESE	1.2	4.1	2.3	0.0	0.0	0.0	7.6	2.6
SE	0.0	2.6	0.0	0.0	0.0	0.0	2.6	2.3
SSE	0.6	2.0	0.9	0.0	0.0	0.0	3.5	2.4
S	0.3	3.2	8.5	1.5	0.0	0.0	13.5	3.6
SSW	0.3	7.0	7.6	0.6	0.0	0.0	15.5	3.1
SW	0.0	9.1	1.5	0.0	0.0	0.0	10.5	2.5
WSW	0.3	7.9	1.5	0.0	0.0	0.0	9.6	2.5
W	0.0	0.9	0.0	0.0	0.0	0.0	0.9	2.5
WNW	0.0	0.6	0.0	0.0	0.0	0.0	0.6	2.4
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	1.6
All	5.6	44.7	44.7	5.0	0.0	0.0	100.0	3.1

Calms (< 0.447 m/s): 0.0%
Mean wind speed: 3.1 m/s
Percent Occurence for this Stability Class: 15.5%

Frequency of Winds By Direction and Speed - 10m
Stability Class D
East Plant, Resolution
10/01/13 - 12/31/13
(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	0.1	0.0	0.0	0.0	0.1	3.0
NNE	0.0	0.3	0.8	4.4	4.6	2.3	12.3	7.9
NE	0.1	0.7	8.0	17.0	13.5	1.5	40.8	6.5
ENE	0.3	1.9	5.0	2.9	0.8	0.0	10.9	4.4
E	0.7	1.4	2.3	0.6	0.6	0.0	5.6	3.8
ESE	0.6	2.3	0.8	0.1	0.0	0.0	3.7	2.5
SE	1.1	0.5	0.7	0.0	0.0	0.0	2.3	2.0
SSE	0.3	1.2	0.0	0.0	0.0	0.0	1.5	2.3
S	0.0	2.3	2.6	1.8	0.0	0.0	6.7	3.9
SSW	0.2	2.2	3.9	1.6	0.4	0.0	8.2	4.0
SW	0.1	1.2	0.4	0.0	0.0	0.0	1.7	2.4
WSW	0.2	3.1	2.3	0.0	0.0	0.0	5.6	2.9
W	0.0	0.4	0.1	0.0	0.0	0.0	0.5	2.7
WNW	0.0	0.0	0.2	0.0	0.0	0.0	0.2	3.6
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All	3.5	17.2	27.2	28.4	19.9	3.7	99.9	5.3

Calms (< 0.447 m/s): 0.1%
Mean wind speed: 5.3 m/s
Percent Occurence for this Stability Class: 46.3%

Frequency of Winds By Direction and Speed - 10m
Stability Class E
East Plant, Resolution
10/01/13 - 12/31/13
(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	0.0	0.0	0.4	0.0	0.0	0.4	6.9
NE	0.0	2.2	0.0	0.4	0.0	0.0	2.6	2.6
ENE	0.4	10.4	0.9	0.0	0.0	0.0	11.7	2.4
E	3.0	7.4	0.0	0.0	0.0	0.0	10.4	1.9
ESE	2.6	9.6	0.0	0.0	0.0	0.0	12.2	1.9
SE	4.8	5.7	0.0	0.0	0.0	0.0	10.4	1.6
SSE	5.7	4.3	0.0	0.0	0.0	0.0	10.0	1.5
S	0.4	3.0	0.9	0.0	0.0	0.0	4.3	2.3
SSW	0.4	7.0	1.7	0.0	0.0	0.0	9.1	2.3
SW	1.7	4.8	0.0	0.0	0.0	0.0	6.5	1.8
WSW	3.0	5.7	0.0	0.0	0.0	0.0	8.7	1.8
W	1.7	7.4	0.0	0.0	0.0	0.0	9.1	2.0
WNW	0.0	0.4	0.0	0.0	0.0	0.0	0.4	2.0
NW	0.4	0.0	0.0	0.0	0.0	0.0	0.4	1.3
NNW	0.4	0.9	0.0	0.0	0.0	0.0	1.3	1.6
All	24.8	68.7	3.5	0.9	0.0	0.0	97.8	1.9

Calms (< 0.447 m/s): 2.2%
Mean wind speed: 1.9 m/s
Percent Occurence for this Stability Class: 10.4%

Frequency of Winds By Direction and Speed - 10m
Stability Class F
East Plant, Resolution
10/01/13 - 12/31/13
(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	0.6	0.0	0.0	0.0	0.0	0.0	0.6	0.7
NNE	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.5
NE	0.9	0.4	0.0	0.0	0.0	0.0	1.3	1.1
ENE	0.9	2.2	0.0	0.0	0.0	0.0	3.0	1.5
E	3.4	4.1	0.0	0.0	0.0	0.0	7.5	1.5
ESE	6.2	3.9	0.0	0.0	0.0	0.0	10.1	1.3
SE	12.7	3.2	0.0	0.0	0.0	0.0	15.9	1.1
SSE	17.8	2.6	0.0	0.0	0.0	0.0	20.4	0.9
S	7.3	1.5	0.0	0.0	0.0	0.0	8.8	1.1
SSW	3.4	0.9	0.0	0.0	0.0	0.0	4.3	1.1
SW	4.9	0.6	0.0	0.0	0.0	0.0	5.6	1.1
WSW	4.7	2.4	0.0	0.0	0.0	0.0	7.1	1.3
W	3.9	1.5	0.0	0.0	0.0	0.0	5.4	1.3
WNW	0.9	0.4	0.0	0.0	0.0	0.0	1.3	1.4
NW	0.6	0.0	0.0	0.0	0.0	0.0	0.6	0.7
NNW	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.9
All	69.0	23.7	0.0	0.0	0.0	0.0	92.7	1.1

Calms (< 0.447 m/s): 7.3%
Mean wind speed: 1.1 m/s
Percent Occurence for this Stability Class: 21.1%

Frequency of Winds By Direction and Speed - 10m
Stability Class A
West Plant, Resolution
10/01/13 - 12/31/13
(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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	9.1	0.0	0.0	0.0	0.0	9.1	2.0
SSE	0.0	18.2	0.0	0.0	0.0	0.0	18.2	1.6
S	0.0	27.3	0.0	0.0	0.0	0.0	27.3	1.7
SSW	0.0	18.2	0.0	0.0	0.0	0.0	18.2	1.7
SW	0.0	9.1	0.0	0.0	0.0	0.0	9.1	1.7
WSW	0.0	18.2	0.0	0.0	0.0	0.0	18.2	1.6
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All	0.0	100.0	0.0	0.0	0.0	0.0	100.0	1.7

Calms (< 0.447 m/s): 0.0%
Mean wind speed: 1.7 m/s
Percent Occurence for this Stability Class: 0.5%

Frequency of Winds By Direction and Speed - 10m
Stability Class B
West Plant, Resolution
10/01/13 - 12/31/13
(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	0.7	0.0	0.0	0.0	0.7	3.2
NNE	0.0	1.5	0.0	0.0	0.0	0.0	1.5	1.7
NE	0.0	1.5	2.9	0.0	0.0	0.0	4.4	3.7
ENE	0.0	2.2	1.5	0.0	0.0	0.0	3.6	2.7
E	0.0	1.5	0.7	0.0	0.0	0.0	2.2	3.0
ESE	0.0	2.9	0.0	0.0	0.0	0.0	2.9	2.2
SE	0.0	2.2	1.5	0.0	0.0	0.0	3.6	2.8
SSE	2.9	3.6	2.9	0.0	0.0	0.0	9.5	2.2
S	5.8	6.6	1.5	0.0	0.0	0.0	13.9	2.0
SSW	8.0	3.6	3.6	0.0	0.0	0.0	15.3	2.1
SW	1.5	6.6	5.1	0.0	0.0	0.0	13.1	2.9
WSW	0.7	8.8	11.7	0.0	0.0	0.0	21.2	3.1
W	0.7	4.4	1.5	0.0	0.0	0.0	6.6	2.4
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.7	0.7	0.0	0.0	0.0	1.5	2.4
All	19.7	46.0	34.3	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: 6.2%

Frequency of Winds By Direction and Speed - 10m
Stability Class C
West Plant, Resolution
10/01/13 - 12/31/13
(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	0.5	1.6	0.0	0.0	0.0	2.1	3.7
NNE	0.0	1.2	1.4	0.0	0.0	0.0	2.6	3.3
NE	0.0	1.9	4.9	0.5	0.0	0.0	7.3	3.8
ENE	0.2	4.5	5.6	0.5	0.0	0.0	10.8	3.4
E	0.0	2.1	3.8	0.0	0.0	0.0	5.9	3.5
ESE	0.5	3.1	2.1	0.0	0.0	0.0	5.6	2.8
SE	1.4	2.8	1.9	0.0	0.0	0.0	6.1	2.4
SSE	1.4	2.1	3.1	0.2	0.0	0.0	6.8	2.9
S	0.7	4.0	0.9	0.5	0.0	0.0	6.1	2.7
SSW	0.2	3.1	3.8	0.9	0.0	0.0	8.0	3.5
SW	0.2	4.2	8.0	0.7	0.0	0.0	13.1	3.6
WSW	0.2	4.7	11.3	0.0	0.0	0.0	16.2	3.3
W	0.2	2.6	2.6	0.0	0.0	0.0	5.4	2.9
WNW	0.0	0.7	0.0	0.0	0.0	0.0	0.7	2.4
NW	0.2	0.0	0.2	0.0	0.0	0.0	0.5	2.6
NNW	0.0	1.4	1.4	0.0	0.0	0.0	2.8	3.2
All	5.4	38.7	52.6	3.3	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: 19.3%

Frequency of Winds By Direction and Speed - 10m
Stability Class D
West Plant, Resolution
10/01/13 - 12/31/13
(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	0.1	0.5	1.2	0.4	0.0	0.0	2.1	3.6
NNE	0.2	0.7	2.5	1.7	1.1	0.7	6.8	5.6
NE	0.2	2.0	8.5	7.0	5.4	3.7	26.8	6.4
ENE	0.2	1.9	9.3	7.1	1.9	0.1	20.5	4.9
E	0.1	0.9	3.4	0.7	0.6	0.0	5.8	4.2
ESE	0.4	0.6	1.2	0.0	0.0	0.0	2.1	2.8
SE	0.1	0.5	0.5	0.0	0.0	0.0	1.1	2.6
SSE	0.2	0.2	1.1	0.2	0.0	0.0	1.8	3.5
S	0.0	0.4	0.5	0.8	0.1	0.0	1.8	4.7
SSW	0.5	1.4	1.4	1.8	0.5	0.0	5.5	4.4
SW	0.5	2.7	2.1	1.1	0.1	0.0	6.5	3.4
WSW	0.9	3.2	4.5	1.2	0.0	0.0	9.8	3.3
W	0.5	2.1	1.5	0.2	0.0	0.0	4.4	2.8
WNW	0.1	1.2	0.9	0.0	0.0	0.0	2.2	2.8
NW	0.0	0.5	0.6	0.0	0.0	0.0	1.1	3.3
NNW	0.1	0.7	0.6	0.1	0.0	0.0	1.5	3.1
All	4.3	19.5	39.8	22.2	9.7	4.5	99.9	4.7

Calms (< 0.447 m/s): 0.1%
Mean wind speed: 4.7 m/s
Percent Occurence for this Stability Class: 38.4%

Frequency of Winds By Direction and Speed - 10m
Stability Class E
West Plant, Resolution
10/01/13 - 12/31/13
(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	1.8	4.0	0.0	0.0	0.0	0.0	5.9	1.8
NNE	1.1	6.2	0.7	0.0	0.0	0.0	8.1	2.2
NE	1.5	9.9	4.0	0.0	0.0	0.0	15.4	2.7
ENE	0.7	3.3	2.2	0.7	0.0	0.0	7.0	3.1
E	1.1	1.8	0.0	0.0	0.0	0.0	2.9	1.6
ESE	2.2	0.7	0.4	0.0	0.0	0.0	3.3	1.7
SE	2.2	0.7	0.0	0.0	0.0	0.0	2.9	1.4
SSE	1.5	1.1	0.0	0.0	0.0	0.0	2.6	1.6
S	1.8	1.5	0.0	0.0	0.0	0.0	3.3	1.5
SSW	1.5	2.6	0.0	0.0	0.0	0.0	4.0	1.6
SW	2.2	0.7	0.0	0.0	0.0	0.0	2.9	1.1
WSW	2.2	3.3	0.0	0.0	0.0	0.0	5.5	1.6
W	5.5	7.0	0.0	0.0	0.0	0.0	12.5	1.6
WNW	7.3	2.2	0.0	0.0	0.0	0.0	9.5	1.2
NW	2.9	2.6	0.0	0.0	0.0	0.0	5.5	1.4
NNW	3.3	3.3	0.4	0.0	0.0	0.0	7.0	1.7
All	38.8	50.9	7.7	0.7	0.0	0.0	98.2	1.9

Calms (< 0.447 m/s): 1.8%
Mean wind speed: 1.9 m/s
Percent Occurence for this Stability Class: 12.4%

Frequency of Winds By Direction and Speed - 10m
Stability Class F
West Plant, Resolution
10/01/13 - 12/31/13
(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	11.5	1.0	0.0	0.0	0.0	0.0	12.5	0.9
NNE	11.1	3.7	0.0	0.0	0.0	0.0	14.8	1.2
NE	11.5	3.9	0.0	0.0	0.0	0.0	15.4	1.2
ENE	4.1	0.2	0.0	0.0	0.0	0.0	4.3	1.0
E	1.9	1.2	0.0	0.0	0.0	0.0	3.1	1.3
ESE	1.9	0.8	0.0	0.0	0.0	0.0	2.7	1.2
SE	0.4	0.2	0.0	0.0	0.0	0.0	0.6	1.4
SSE	0.6	0.0	0.0	0.0	0.0	0.0	0.6	1.2
S	0.2	0.2	0.0	0.0	0.0	0.0	0.4	1.3
SSW	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8
SW	1.0	0.2	0.0	0.0	0.0	0.0	1.2	1.0
WSW	1.4	1.0	0.0	0.0	0.0	0.0	2.3	1.1
W	5.1	0.0	0.0	0.0	0.0	0.0	5.1	0.8
WNW	7.2	0.8	0.0	0.0	0.0	0.0	8.0	1.0
NW	8.0	1.0	0.0	0.0	0.0	0.0	8.9	1.0
NNW	8.0	1.2	0.0	0.0	0.0	0.0	9.1	0.9
All	74.5	15.2	0.0	0.0	0.0	0.0	89.7	1.0

Calms (< 0.447 m/s): 10.3%
Mean wind speed: 1.0 m/s
Percent Occurence for this Stability Class: 23.3%

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

Average Frequency Distribution of Wind Speeds - 10m
Resolution - East Plant
Oct-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	98.60	1.30	0.10	0.00	0.00	0.00	0.00	0.00	0.00	9.57	14:19
2	98.93	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	8.81	16:25
3	94.83	4.27	0.83	0.03	0.00	0.00	0.00	0.00	0.00	9.83	11:34
4	88.00	4.90	2.60	2.07	1.63	0.73	0.07	0.00	0.00	17.60	22:59
5	13.80	20.37	18.93	18.40	15.90	9.10	3.00	0.50	0.03	21.20	4:28
6	45.83	12.73	17.77	14.53	6.33	2.10	0.57	0.13	0.00	21.10	0:39
7	75.47	16.37	7.30	0.87	0.00	0.00	0.00	0.00	0.00	11.10	6:07
8	81.90	13.83	3.63	0.53	0.07	0.00	0.00	0.00	0.00	13.10	12:08
9	73.57	17.80	6.10	1.97	0.47	0.10	0.00	0.00	0.00	16.50	14:14
10	88.73	7.27	2.70	0.93	0.27	0.07	0.00	0.00	0.00	16.30	4:19
11	99.93	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.09	12:15
12	94.50	5.10	0.40	0.00	0.00	0.00	0.00	0.00	0.00	8.81	9:59
13	87.33	9.23	2.70	0.63	0.10	0.00	0.00	0.00	0.00	14.00	11:37
14	98.80	1.17	0.03	0.00	0.00	0.00	0.00	0.00	0.00	8.14	13:46
15	98.60	1.37	0.03	0.00	0.00	0.00	0.00	0.00	0.00	8.65	14:18
16	86.97	9.03	3.57	0.43	0.00	0.00	0.00	0.00	0.00	11.80	8:37
17	98.50	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.99	13:46
18	88.73	9.67	1.47	0.10	0.00	0.00	0.00	0.00	0.00	10.60	23:58
19	80.17	12.00	6.73	1.10	0.00	0.00	0.00	0.00	0.00	11.90	2:22
20	99.23	0.77	0.03	0.00	0.00	0.00	0.00	0.00	0.00	7.94	16:19
21	99.30	0.67	0.03	0.00	0.00	0.00	0.00	0.00	0.00	8.70	15:20
22	71.43	17.50	10.03	1.03	0.00	0.00	0.00	0.00	0.00	11.40	3:59
23	70.63	17.30	10.40	1.63	0.03	0.00	0.00	0.00	0.00	12.00	8:42
24	94.73	4.87	0.40	0.00	0.00	0.00	0.00	0.00	0.00	8.91	9:50
25	98.00	1.87	0.07	0.00	0.00	0.00	0.00	0.00	0.00	8.76	14:13
26	72.33	17.60	8.97	1.07	0.00	0.00	0.00	0.00	0.00	11.20	10:30
27	83.57	14.80	1.60	0.03	0.00	0.00	0.00	0.00	0.00	10.20	0:26
28	71.30	20.87	6.10	1.53	0.17	0.00	0.00	0.00	0.00	13.60	13:01
29	84.77	10.97	3.67	0.57	0.07	0.00	0.00	0.00	0.00	14.90	12:32
30	97.13	2.63	0.23	0.00	0.00	0.00	0.00	0.00	0.00	9.11	15:13
31	96.17	3.80	0.07	0.00	0.00	0.00	0.00	0.00	0.00	8.09	15:49
All	84.90	8.47	3.76	1.53	0.81	0.39	0.12	0.02	0.00	21.20	4:28

Average Frequency Distribution of Wind Speeds - 10m
Resolution - East Plant
Nov-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	83.53	12.73	3.50	0.23	0.00	0.00	0.00	0.00	0.00	11.80	9:21
2	62.67	19.13	13.63	4.27	0.27	0.00	0.00	0.00	0.00	12.90	6:42
3	94.37	4.73	0.83	0.10	0.00	0.00	0.00	0.00	0.00	12.00	13:36
4	94.37	4.90	0.70	0.07	0.00	0.00	0.00	0.00	0.00	10.50	22:22
5	91.13	5.50	2.87	0.43	0.00	0.00	0.00	0.00	0.00	11.10	23:48
6	34.67	28.57	23.30	11.07	2.23	0.13	0.00	0.00	0.00	15.50	3:59
7	43.17	20.13	21.27	12.40	2.97	0.10	0.00	0.00	0.00	14.40	0:59
8	89.17	10.23	0.60	0.00	0.00	0.00	0.00	0.00	0.00	8.86	6:35
9	99.73	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.73	13:36
10	89.20	10.47	0.33	0.00	0.00	0.00	0.00	0.00	0.00	7.94	10:40
11	66.07	22.00	10.30	1.60	0.03	0.00	0.00	0.00	0.00	11.70	23:43
12	44.70	30.63	17.80	5.77	1.10	0.03	0.00	0.00	0.00	14.00	10:18
13	19.83	24.87	27.17	21.00	6.67	0.40	0.00	0.00	0.00	14.80	1:31
14	83.90	11.60	4.03	0.47	0.00	0.00	0.00	0.00	0.00	11.10	8:20
15	68.90	19.27	8.07	3.00	0.63	0.10	0.00	0.00	0.00	15.30	15:10
16	92.63	6.43	0.80	0.03	0.00	0.00	0.00	0.00	0.00	10.40	15:36
17	98.07	1.83	0.10	0.00	0.00	0.00	0.00	0.00	0.00	9.22	11:44
18	98.10	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.96	10:30
19	98.43	1.53	0.03	0.00	0.00	0.00	0.00	0.00	0.00	7.47	13:09
20	99.03	0.87	0.10	0.00	0.00	0.00	0.00	0.00	0.00	8.04	13:11
21	98.57	1.37	0.07	0.00	0.00	0.00	0.00	0.00	0.00	8.35	12:51
22	90.73	8.20	1.03	0.03	0.00	0.00	0.00	0.00	0.00	10.10	13:54
23	47.77	38.30	12.70	1.20	0.07	0.00	0.00	0.00	0.00	11.90	12:10
24	38.00	45.70	15.57	0.70	0.00	0.00	0.00	0.00	0.00	10.70	20:43
25	91.77	6.33	1.93	0.00	0.00	0.00	0.00	0.00	0.00	9.93	2:46
26	33.27	32.07	23.93	10.00	0.73	0.00	0.00	0.00	0.00	12.90	14:04
27	18.70	30.67	26.13	17.00	6.90	0.53	0.00	0.00	0.00	15.10	10:05
28	45.73	26.60	20.10	6.80	0.70	0.00	0.00	0.00	0.00	13.50	4:32
29	93.57	6.03	0.40	0.00	0.00	0.00	0.00	0.00	0.00	8.50	6:00
30	97.77	2.17	0.03	0.00	0.00	0.00	0.00	0.00	0.00	7.58	6:51
All	73.58	14.50	7.91	3.21	0.74	0.04	0.00	0.00	0.00	15.51	3:59

Average Frequency Distribution of Wind Speeds - 10m
Resolution - East Plant
Dec-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	98.20	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.12	11:29
2	99.97	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.89	13:10
3	92.13	6.90	0.93	0.07	0.00	0.00	0.00	0.00	0.00	11.30	14:49
4	89.57	7.30	2.37	0.63	0.10	0.00	0.00	0.00	0.00	16.40	9:26
5	98.17	1.70	0.13	0.00	0.00	0.00	0.00	0.00	0.00	9.01	17:08
6	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.27	16:45
7	85.73	9.07	3.63	1.23	0.30	0.07	0.00	0.00	0.00	14.70	23:45
8	74.43	11.23	7.70	4.47	1.73	0.37	0.07	0.00	0.00	18.00	1:57
9	59.93	19.13	12.90	6.10	1.73	0.20	0.00	0.00	0.00	16.10	21:04
10	32.93	25.23	21.47	13.63	5.47	1.23	0.10	0.00	0.00	16.50	10:01
11	14.50	33.13	33.40	15.60	3.20	0.17	0.00	0.00	0.00	15.40	5:32
12	38.57	21.37	22.27	14.10	3.60	0.13	0.00	0.00	0.00	14.50	9:47
13	99.77	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.37	14:29
14	31.43	22.43	24.30	15.17	5.50	1.00	0.17	0.00	0.00	18.30	10:37
15	31.47	29.93	24.50	11.50	2.40	0.20	0.00	0.00	0.00	15.10	10:07
16	45.23	19.73	20.90	10.77	3.07	0.30	0.00	0.00	0.00	14.80	11:12
17	67.30	22.27	8.57	1.73	0.13	0.00	0.00	0.00	0.00	12.60	9:15
18	67.30	21.27	10.40	1.03	0.00	0.00	0.00	0.00	0.00	11.10	8:11
19	64.63	26.73	7.73	0.87	0.03	0.00	0.00	0.00	0.00	13.10	2:55
20	94.87	4.63	0.50	0.03	0.00	0.00	0.00	0.00	0.00	9.73	7:06
21	90.70	7.83	1.33	0.10	0.00	0.00	0.00	0.00	0.00	11.60	6:06
22	99.17	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.12	10:51
23	30.43	27.17	20.23	14.53	6.43	1.13	0.07	0.00	0.00	16.00	10:13
24	48.70	29.10	15.53	5.30	1.23	0.13	0.00	0.00	0.00	15.60	23:39
25	19.07	16.50	18.83	15.73	10.57	7.77	6.43	3.53	1.53	24.00	3:18
26	16.53	15.97	18.63	22.90	17.93	6.70	1.20	0.07	0.00	18.40	9:58
27	21.57	26.90	26.70	18.40	5.90	0.50	0.00	0.00	0.00	15.60	8:26
28	72.37	17.53	8.50	1.57	0.03	0.00	0.00	0.00	0.00	11.80	2:13
29	51.20	16.30	16.97	11.57	3.50	0.47	0.07	0.00	0.00	17.00	9:55
30	93.47	4.83	1.40	0.33	0.03	0.00	0.00	0.00	0.00	12.40	0:09
31	82.40	13.53	3.90	0.17	0.00	0.00	0.00	0.00	0.00	10.40	8:20
All	64.89	14.86	10.77	6.05	2.35	0.66	0.26	0.12	0.05	23.96	3:18

Average Frequency Distribution of Wind Speeds - 10m
Resolution - West Plant
Oct-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	96.17	3.70	0.13	0.00	0.00	0.00	0.00	0.00	0.00	8.50	12:21
2	95.67	4.07	0.27	0.00	0.00	0.00	0.00	0.00	0.00	8.91	13:16
3	87.23	10.67	2.00	0.13	0.00	0.00	0.00	0.00	0.00	11.20	12:37
4	81.73	11.03	3.10	1.97	1.33	0.60	0.20	0.03	0.00	18.70	22:57
5	39.13	15.40	16.67	14.00	8.70	4.13	1.60	0.33	0.03	21.20	5:27
6	66.20	15.77	7.60	5.53	3.47	1.17	0.23	0.00	0.00	18.20	8:01
7	81.90	12.07	4.53	1.10	0.23	0.07	0.00	0.00	0.00	15.90	9:25
8	78.33	16.97	4.37	0.33	0.00	0.00	0.00	0.00	0.00	10.90	12:18
9	63.17	16.60	12.57	6.13	1.40	0.13	0.00	0.00	0.00	15.70	15:42
10	85.53	11.23	2.53	0.57	0.13	0.03	0.00	0.00	0.00	14.90	4:00
11	94.77	5.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	9.73	12:56
12	90.23	8.43	1.27	0.07	0.00	0.00	0.00	0.00	0.00	12.80	9:04
13	81.90	13.87	3.83	0.40	0.03	0.00	0.00	0.00	0.00	12.70	10:59
14	95.47	4.33	0.20	0.00	0.00	0.00	0.00	0.00	0.00	8.60	13:16
15	91.70	7.97	0.37	0.00	0.00	0.00	0.00	0.00	0.00	8.40	12:25
16	94.60	4.73	0.63	0.03	0.00	0.00	0.00	0.00	0.00	10.20	6:54
17	94.83	5.03	0.10	0.00	0.00	0.00	0.00	0.00	0.00	10.20	12:20
18	96.93	3.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	7.83	14:37
19	98.83	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.12	11:45
20	98.47	1.50	0.03	0.00	0.00	0.00	0.00	0.00	0.00	8.55	14:44
21	97.20	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.17	14:54
22	72.63	18.27	7.07	1.77	0.27	0.00	0.00	0.00	0.00	13.40	9:13
23	68.43	16.90	8.97	4.13	1.27	0.27	0.03	0.00	0.00	18.30	9:26
24	87.10	9.33	2.43	0.97	0.13	0.00	0.00	0.00	0.00	13.60	9:51
25	97.03	2.87	0.10	0.00	0.00	0.00	0.00	0.00	0.00	8.04	14:29
26	73.37	10.13	10.07	5.50	0.87	0.03	0.00	0.00	0.00	14.00	10:22
27	75.60	17.30	5.33	1.53	0.23	0.00	0.00	0.00	0.00	13.40	0:54
28	67.83	22.47	8.47	1.17	0.03	0.00	0.00	0.00	0.00	12.00	11:29
29	77.70	17.40	4.53	0.37	0.03	0.00	0.00	0.00	0.00	12.80	13:21
30	93.83	5.93	0.23	0.00	0.00	0.00	0.00	0.00	0.00	8.60	12:25
31	88.80	10.37	0.83	0.00	0.00	0.00	0.00	0.00	0.00	8.40	4:43
All	84.27	9.88	3.50	1.47	0.58	0.21	0.07	0.01	0.00	21.20	5:27

Average Frequency Distribution of Wind Speeds - 10m
Resolution - West Plant
Nov-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	95.83	3.63	0.50	0.00	0.00	0.00	0.00	0.00	0.00	9.37	7:02
2	58.90	19.80	12.27	5.83	2.37	0.77	0.13	0.00	0.00	17.60	8:35
3	82.90	14.60	2.40	0.13	0.00	0.00	0.00	0.00	0.00	10.80	13:48
4	82.70	15.33	1.87	0.10	0.00	0.00	0.00	0.00	0.00	12.50	22:05
5	95.20	4.63	0.17	0.00	0.00	0.00	0.00	0.00	0.00	8.91	14:43
6	77.90	12.60	6.13	2.60	0.67	0.07	0.00	0.00	0.00	14.60	19:56
7	56.83	20.27	11.73	6.97	3.20	0.87	0.13	0.00	0.00	18.60	5:09
8	91.30	6.93	1.60	0.17	0.03	0.00	0.00	0.00	0.00	12.20	2:47
9	97.57	2.40	0.03	0.00	0.00	0.00	0.00	0.00	0.00	7.99	4:32
10	93.20	6.60	0.17	0.00	0.00	0.00	0.00	0.00	0.00	8.19	18:22
11	83.60	12.20	3.83	0.37	0.00	0.00	0.00	0.00	0.00	11.80	11:47
12	66.20	21.30	8.67	2.90	0.77	0.17	0.03	0.00	0.00	19.70	23:54
13	36.53	20.37	13.53	10.37	8.50	6.33	3.03	1.03	0.33	24.00	4:26
14	80.47	14.53	4.70	0.27	0.00	0.00	0.00	0.00	0.00	10.50	7:22
15	72.97	17.50	8.03	1.37	0.10	0.00	0.00	0.00	0.00	12.90	19:02
16	90.93	8.50	0.53	0.07	0.00	0.00	0.00	0.00	0.00	10.50	15:13
17	98.77	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.58	11:33
18	98.33	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.37	5:10
19	93.70	5.97	0.33	0.00	0.00	0.00	0.00	0.00	0.00	9.11	13:17
20	97.70	2.30	0.03	0.00	0.00	0.00	0.00	0.00	0.00	7.53	12:55
21	95.57	3.93	0.50	0.03	0.00	0.00	0.00	0.00	0.00	10.40	22:21
22	84.47	8.10	3.97	2.17	1.00	0.27	0.03	0.00	0.00	17.20	4:20
23	58.20	14.30	11.53	8.00	4.77	2.23	0.77	0.13	0.03	23.20	12:24
24	51.57	30.20	13.90	3.47	0.73	0.10	0.00	0.00	0.00	15.60	5:29
25	84.60	8.83	4.73	1.77	0.07	0.00	0.00	0.00	0.00	13.10	23:17
26	56.60	22.17	11.47	5.50	3.33	0.93	0.10	0.00	0.00	16.30	7:20
27	34.13	20.87	20.00	14.00	6.43	2.63	1.27	0.43	0.20	25.00	1:55
28	57.63	22.13	12.87	5.47	1.53	0.33	0.03	0.00	0.00	17.30	2:35
29	83.07	12.13	4.20	0.57	0.00	0.00	0.00	0.00	0.00	12.50	9:24
30	99.63	0.33	0.03	0.00	0.00	0.00	0.00	0.00	0.00	7.94	11:17
All	78.57	11.85	5.32	2.40	1.12	0.49	0.18	0.05	0.02	25.04	1:55

Average Frequency Distribution of Wind Speeds - 10m
Resolution - West Plant
Dec-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	99.47	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.14	11:37
2	99.13	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.96	2:55
3	96.50	3.47	0.10	0.00	0.00	0.00	0.00	0.00	0.00	7.73	13:19
4	82.97	12.00	4.30	0.67	0.07	0.00	0.00	0.00	0.00	12.70	10:39
5	95.87	4.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.42	14:49
6	99.87	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.20	15:07
7	94.43	5.47	0.13	0.00	0.00	0.00	0.00	0.00	0.00	9.16	12:37
8	87.67	11.23	1.07	0.03	0.00	0.00	0.00	0.00	0.00	10.00	0:56
9	95.20	4.43	0.40	0.00	0.00	0.00	0.00	0.00	0.00	8.70	14:54
10	55.13	25.13	12.80	5.23	1.43	0.23	0.03	0.00	0.00	17.00	9:23
11	67.47	20.33	9.17	2.57	0.47	0.07	0.00	0.00	0.00	19.60	20:52
12	75.37	15.50	6.17	2.23	0.63	0.10	0.00	0.00	0.00	15.60	2:00
13	99.90	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.84	13:16
14	85.30	6.93	4.23	2.07	0.97	0.37	0.10	0.03	0.00	20.30	10:42
15	66.77	16.47	10.47	4.70	1.33	0.27	0.03	0.00	0.00	16.20	5:23
16	74.33	13.50	8.37	3.03	0.73	0.07	0.00	0.00	0.00	16.60	2:43
17	61.67	22.70	12.30	2.90	0.43	0.00	0.00	0.00	0.00	13.90	12:29
18	87.20	10.50	2.00	0.27	0.03	0.00	0.00	0.00	0.00	12.60	5:44
19	79.17	16.60	3.83	0.40	0.00	0.00	0.00	0.00	0.00	11.70	14:13
20	93.43	5.87	0.70	0.03	0.00	0.00	0.00	0.00	0.00	9.73	5:11
21	96.90	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.27	13:35
22	98.97	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.32	23:52
23	69.33	16.13	9.67	3.77	0.97	0.17	0.00	0.00	0.00	15.40	3:31
24	71.77	12.13	8.37	4.60	2.03	0.83	0.23	0.03	0.00	19.80	23:17
25	36.47	14.53	11.13	9.57	9.03	7.77	5.87	3.37	2.27	25.60	3:02
26	37.23	12.73	8.43	8.03	8.60	8.43	7.87	5.20	3.43	25.20	3:45
27	52.30	13.30	11.30	10.67	8.27	3.53	0.57	0.07	0.00	18.80	8:13
28	98.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.94	7:02
29	92.13	6.47	1.17	0.23	0.03	0.00	0.00	0.00	0.00	12.10	21:00
30	99.60	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.35	13:47
31	92.37	7.33	0.23	0.00	0.00	0.00	0.00	0.00	0.00	11.20	12:08
All	82.01	9.18	4.08	1.97	1.13	0.70	0.47	0.28	0.18	25.65	3:02

Appendix C: Meteorological Data – Hourly

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Oct 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	1.0	0.8	0.4	0.9	0.7	0.9	0.7	0.5	0.7	1.8	2.2	2.4	2.5	2.7	2.7	2.5	2.0	1.8	1.2	0.2	0.7	0.8	0.5	0.2	1.3	2.7	0.2
2	0.6	1.2	0.8	1.7	1.0	0.8	0.5	0.4	1.5	2.6	2.3	2.2	2.4	2.4	2.5	2.4	2.4	1.9	1.2	1.0	0.5	0.6	0.7	0.5	1.4	2.6	0.4
3	0.8	1.0	1.1	0.5	0.7	0.9	1.2	2.1	3.1	2.9	3.2	2.3	4.0	3.5	2.9	3.1	3.2	2.3	1.7	1.4	1.2	1.3	2.1	2.7	2.0	4.0	0.5
4	1.8	2.3	2.1	0.8	0.4	0.3	0.6	0.7	1.5	1.9	2.6	2.5	2.7	3.2	3.4	3.1	2.5	2.5	1.6	2.4	2.1	3.0	7.7	11.0	2.6	11.0	0.3
5	10.6	11.8	12.7	12.1	12.7	11.5	11.6	11.3	10.7	10.4	10.2	8.6	7.1	5.5	5.2	5.6	5.7	5.9	4.6	7.4	6.3	6.4	7.9	10.3	8.8	12.7	4.6
6	12.4	8.6	7.4	8.7	8.3	7.5	8.1	8.4	9.1	10.7	8.8	8.8	6.9	3.9	2.0	2.2	3.4	4.0	2.3	1.8	1.2	1.7	1.8	1.9	5.8	12.4	1.2
7	3.2	3.6	3.4	3.2	4.7	5.2	6.8	6.1	7.1	6.3	5.1	5.0	3.7	2.4	2.7	2.3	2.0	2.5	2.3	1.1	0.9	0.9	0.6	0.4	3.4	7.1	0.4
8	1.7	1.7	1.2	0.8	1.2	0.8	0.7	1.2	1.4	2.7	3.5	2.6	4.1	4.8	4.0	4.0	4.0	4.1	4.5	4.0	4.8	4.6	4.4	4.5	3.0	4.8	0.7
9	4.2	3.8	3.5	4.0	2.7	1.4	1.1	2.1	4.0	4.7	5.0	6.8	5.6	5.1	5.5	5.3	4.8	4.0	2.9	3.6	3.7	3.3	3.4	2.8	3.9	6.8	1.1
10	1.8	2.7	4.5	5.2	5.1	4.1	5.9	2.6	2.1	2.1	1.8	1.6	2.0	3.2	2.6	2.2	1.5	1.1	0.6	1.0	1.0	1.1	1.5	1.1	2.4	5.9	0.6
11	1.0	1.6	1.5	1.8	1.9	1.7	1.6	1.6	2.2	1.6	1.6	2.5	2.8	2.3	2.2	2.5	2.6	2.5	1.6	0.9	1.5	1.4	1.6	1.9	1.9	2.8	0.9
12	1.9	1.7	1.9	2.1	2.3	2.0	1.8	2.8	3.4	4.1	4.5	4.1	3.8	3.1	2.2	2.6	2.7	2.8	3.2	2.4	0.9	0.8	1.2	1.0	2.5	4.5	0.8
13	0.5	0.5	0.5	0.6	0.7	0.6	0.4	1.8	4.0	4.3	4.9	6.7	3.5	3.7	3.3	3.8	3.9	3.3	2.2	1.2	2.2	1.4	0.9	0.8	2.3	6.7	0.4
14	1.1	0.3	0.3	0.7	0.5	0.4	0.6	0.7	0.8	1.7	2.4	2.3	2.6	2.7	2.6	3.0	2.2	1.8	1.3	1.2	0.6	0.5	0.7	1.4	1.4	3.0	0.3
15	1.1	1.4	1.3	1.3	0.8	0.9	1.2	0.9	0.8	2.2	2.3	2.6	2.0	2.5	2.8	2.5	2.3	1.9	1.3	1.4	1.8	1.4	1.5	0.6	1.6	2.8	0.6
16	0.6	0.5	1.0	1.7	1.8	2.9	4.0	4.3	6.9	5.7	5.1	2.6	2.3	1.9	2.5	2.3	2.9	2.6	3.4	3.9	2.7	1.6	0.9	1.2	2.7	6.9	0.5
17	1.7	1.3	1.6	1.9	1.7	1.9	2.1	2.0	2.9	1.7	2.6	2.7	2.4	2.7	2.6	2.5	3.2	2.6	3.4	3.0	1.7	1.4	2.4	2.2	2.3	3.4	1.3
18	1.1	0.9	1.2	0.8	0.7	0.8	1.3	1.5	3.8	4.6	5.7	4.3	2.8	2.9	3.1	3.2	4.0	3.4	2.7	2.6	0.8	1.7	1.3	3.9	2.5	5.7	0.7
19	3.8	4.1	7.4	3.1	3.8	2.4	2.9	2.9	4.6	6.7	6.4	5.3	2.7	1.8	2.3	2.2	2.4	2.9	3.6	2.7	1.3	1.0	1.1	0.7	3.2	7.4	0.7
20	1.2	1.6	1.7	1.7	1.6	0.8	0.9	1.0	0.6	2.3	2.4	2.7	2.6	2.5	1.9	2.5	2.4	2.2	1.8	1.9	1.3	0.8	0.8	1.1	1.7	2.7	0.6
21	1.6	0.7	0.5	0.7	0.6	0.6	1.0	1.1	1.2	1.4	2.3	2.3	2.8	2.7	2.5	2.8	1.8	2.2	3.0	1.7	0.9	1.2	2.0	1.8	1.6	3.0	0.5
22	2.0	2.5	5.2	4.2	3.9	5.2	3.9	4.8	6.4	6.6	6.5	6.8	6.2	3.4	2.2	2.4	1.8	3.5	2.9	2.3	2.3	2.0	2.4	2.8	3.8	6.8	1.8
23	3.2	3.2	3.4	4.0	4.7	6.0	5.7	5.7	6.8	7.4	7.6	6.6	4.5	3.1	2.4	2.5	2.2	1.1	2.0	1.9	1.6	1.5	1.3	1.5	3.7	7.6	1.1
24	2.1	1.6	1.3	1.3	1.3	1.8	1.9	2.7	3.4	4.4	4.9	3.8	3.3	2.7	2.1	3.0	2.4	1.5	1.5	1.1	0.5	0.6	0.8	0.4	2.1	4.9	0.4
25	1.6	0.8	1.3	1.2	0.7	0.9	1.2	0.9	0.6	1.3	2.7	3.1	2.7	2.6	2.9	2.9	2.5	2.9	2.8	2.3	1.8	1.3	1.4	1.6	1.8	3.1	0.6
26	1.7	2.2	2.6	4.7	6.3	5.9	3.0	4.1	5.1	5.9	6.8	6.5	6.0	4.5	4.1	2.6	2.1	1.9	1.6	0.7	1.2	2.5	2.4	2.7	3.6	6.8	0.7
27	4.3	4.6	3.8	3.4	3.2	3.6	3.6	3.7	4.0	5.0	4.8	3.9	3.5	3.9	3.6	3.8	2.4	3.9	1.8	1.6	1.4	0.7	1.6	3.2	3.3	5.0	0.7
28	3.9	4.2	4.1	3.3	4.1	2.9	4.0	4.3	4.1	5.2	4.0	5.8	4.9	4.6	4.2	3.5	2.8	4.5	3.9	4.7	3.6	3.6	5.2	6.3	4.2	6.3	2.8
29	4.6	2.7	2.9	3.0	1.9	1.5	1.7	1.3	4.3	5.2	5.1	4.9	5.4	3.8	2.6	2.4	2.9	4.0	2.2	1.7	1.4	0.6	0.7	0.5	2.8	5.4	0.5
30	0.6	0.6	0.3	0.5	0.7	0.3	0.3	1.5	1.7	1.8	2.0	2.6	2.8	3.4	3.0	3.3	2.8	2.0	1.8	2.2	1.2	1.9	1.6	1.2	1.7	3.4	0.3
31	1.4	1.6	1.4	1.4	1.3	1.1	1.0	1.7	2.6	2.9	1.9	2.7	2.5	3.0	3.0	3.7	3.5	4.0	4.4	3.1	2.3	2.3	2.1	1.1	2.3	4.4	1.0
Avg	2.6	2.5	2.7	2.6	2.6	2.5	2.6	2.8	3.6	4.1	4.2	4.1	3.6	3.2	3.0	3.0	2.8	2.8	2.4	2.2	1.8	1.7	2.1	2.4	2.8	--	--
Max	12.4	11.8	12.7	12.1	12.7	11.5	11.6	11.3	10.7	10.7	10.2	8.8	7.1	5.5	5.5	5.6	5.7	5.9	4.6	7.4	6.3	6.4	7.9	11.0	--	12.7	--
Min	0.5	0.3	0.3	0.5	0.4	0.3	0.3	0.4	0.6	1.3	1.6	1.6	2.0	1.8	1.9	2.2	1.5	1.1	0.6	0.2	0.5	0.5	0.5	0.2	--	--	0.2

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Nov 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	0.7	1.1	1.2	1.7	1.7	2.0	3.5	4.5	5.3	6.2	5.5	5.0	4.7	4.1	2.7	2.6	2.8	1.5	1.5	2.6	2.3	2.2	3.4	2.9	6.2	0.7
2	2.5	2.3	2.9	5.2	5.5	6.4	8.3	6.5	7.0	7.0	6.8	7.1	5.8	4.8	3.6	3.4	2.7	2.3	1.6	1.6	1.6	1.2	2.5	4.2	4.3	8.3	1.2
3	2.1	3.4	3.4	2.4	2.3	1.8	1.4	0.8	1.5	3.5	3.5	3.5	3.6	4.4	3.1	3.0	2.3	1.4	0.9	0.6	1.2	1.1	0.9	1.0	2.2	4.4	0.6
4	1.0	0.9	1.0	0.9	1.1	1.5	1.2	1.1	1.0	3.3	3.8	4.2	3.1	3.2	3.3	2.4	2.5	2.4	1.1	1.4	1.4	1.5	3.3	2.7	2.1	4.2	0.9
5	1.0	1.2	1.1	1.0	0.7	0.6	1.5	1.4	1.6	2.0	2.4	3.1	2.6	2.4	2.5	2.3	2.4	2.4	3.4	1.4	3.0	3.1	5.8	7.1	2.3	7.1	0.6
6	5.6	2.7	4.6	7.9	6.3	7.4	4.4	5.5	6.8	6.9	7.1	7.9	7.3	5.9	5.3	4.9	5.0	4.3	4.3	4.4	8.1	8.4	8.3	8.0	6.1	8.4	2.7
7	8.3	8.1	7.3	8.2	8.3	6.0	6.3	6.4	8.5	8.6	7.6	7.3	8.1	7.5	5.4	4.8	4.2	3.1	2.4	2.4	2.4	2.3	2.3	2.7	5.8	8.6	2.3
8	3.1	3.3	3.2	3.9	5.0	4.7	4.5	3.6	4.7	4.2	4.1	3.3	1.9	2.5	1.9	2.9	2.2	1.6	1.6	0.5	0.8	0.6	0.6	0.6	2.7	5.0	0.5
9	0.3	0.7	0.7	1.4	1.8	1.8	1.8	1.8	2.3	2.0	1.4	1.5	2.3	2.3	2.5	1.8	1.9	2.7	2.7	0.7	1.4	1.6	1.2	1.2	1.7	2.7	0.3
10	1.7	1.8	1.7	1.9	2.0	2.1	3.1	3.2	3.2	3.4	4.7	5.1	4.9	3.6	4.1	3.6	4.4	4.3	4.1	1.8	1.8	1.9	2.1	2.1	3.0	5.1	1.7
11	2.2	2.7	2.7	2.8	2.2	2.7	3.1	3.7	5.1	6.6	7.1	7.0	5.8	5.6	4.7	4.6	4.2	2.1	1.1	2.9	3.8	2.8	6.4	6.7	4.1	7.1	1.1
12	7.3	5.0	3.8	3.6	3.9	5.5	6.6	7.8	6.6	6.8	8.6	7.3	6.3	5.0	5.3	4.4	4.8	4.7	4.2	4.3	5.0	4.0	5.4	6.6	5.5	8.6	3.6
13	7.6	9.9	8.9	7.4	8.1	8.6	8.3	7.5	9.0	9.3	9.2	9.7	9.1	8.6	7.9	7.2	6.8	5.3	4.5	5.9	5.8	4.0	4.0	3.6	7.3	9.9	3.6
14	3.7	3.5	3.9	3.4	4.4	5.7	3.9	3.6	6.5	6.5	3.9	2.4	1.5	2.5	2.3	2.3	1.9	2.6	2.1	0.9	0.6	0.7	0.5	0.4	2.9	6.5	0.4
15	0.6	0.3	0.5	0.9	0.6	0.8	0.9	2.8	4.4	4.0	4.4	6.0	5.9	5.1	5.7	6.3	5.3	5.8	6.3	4.5	4.2	4.2	4.9	4.4	3.7	6.3	0.3
16	3.4	2.3	2.6	2.5	2.7	3.1	3.5	3.5	2.3	2.3	2.3	2.6	2.6	3.1	3.0	3.7	3.0	1.9	2.1	1.5	1.4	0.9	0.5	0.6	2.4	3.7	0.5
17	0.8	0.8	0.4	0.6	0.8	0.5	2.1	1.9	1.0	3.3	3.1	3.6	3.2	2.4	1.9	1.7	0.8	1.3	1.5	1.6	2.0	1.8	1.6	1.7	1.7	3.6	0.4
18	1.6	2.1	2.2	2.3	2.3	2.5	2.0	2.1	3.0	3.3	4.4	3.0	2.1	2.7	2.9	2.3	2.1	3.1	2.9	1.3	1.3	0.8	1.6	1.1	2.3	4.4	0.8
19	1.5	0.3	0.6	0.6	0.9	1.0	1.1	1.0	0.9	1.9	2.2	2.9	3.5	2.7	2.2	2.7	1.7	1.6	0.9	1.2	1.4	0.7	0.5	0.5	1.4	3.5	0.3
20	0.4	0.6	0.8	0.5	0.8	0.7	0.9	0.8	1.2	1.2	1.6	1.9	2.4	2.9	2.5	1.8	2.8	2.2	1.4	1.0	1.5	1.5	1.0	0.4	1.4	2.9	0.4
21	1.0	1.9	1.2	1.3	1.1	0.6	0.8	1.0	0.7	2.6	3.2	3.2	4.0	1.9	1.7	1.9	1.1	1.8	1.2	1.0	1.7	2.0	1.9	1.8	1.7	4.0	0.6
22	2.5	2.9	2.0	3.0	2.8	3.6	2.8	3.0	3.4	4.4	3.8	3.7	3.4	4.4	4.6	2.2	1.0	1.6	1.9	1.9	1.3	1.6	1.8	2.2	2.7	4.6	1.0
23	2.2	3.4	5.0	4.8	4.9	4.8	3.9	3.9	4.2	4.7	5.4	5.0	6.8	5.5	4.6	5.4	6.0	6.9	5.8	5.4	5.8	5.7	6.2	6.2	5.1	6.9	2.2
24	6.0	5.8	6.1	6.3	6.3	5.5	5.3	5.9	5.1	5.8	5.8	5.8	6.2	6.2	5.2	5.2	4.6	3.7	4.7	5.1	7.0	5.6	3.6	3.0	5.4	7.0	3.0
25	2.5	2.5	4.7	2.8	3.0	2.5	1.6	1.9	2.6	2.8	2.5	2.4	1.5	2.6	1.9	4.2	3.8	1.9	1.8	5.1	2.0	1.7	2.4	4.8	2.7	5.1	1.5
26	5.2	8.1	5.6	5.9	7.2	6.3	5.4	4.7	6.4	8.3	8.1	8.2	6.9	6.8	8.1	5.4	5.3	4.5	3.2	4.8	6.1	5.0	4.8	5.8	6.1	8.3	3.2
27	6.5	6.6	8.4	6.0	6.9	6.3	6.4	7.1	9.0	9.4	9.2	9.8	10.6	9.7	8.3	7.8	6.0	6.1	6.1	6.0	5.1	6.1	4.9	5.1	7.2	10.6	4.9
28	6.2	6.5	7.1	7.9	7.9	6.1	7.7	7.5	7.1	6.7	6.0	6.6	6.8	5.9	4.2	3.4	3.9	3.4	2.9	4.6	3.8	2.5	3.1	2.5	5.4	7.9	2.5
29	2.1	2.3	2.8	2.7	3.0	3.5	5.2	4.0	4.6	4.1	3.1	2.7	3.3	2.8	2.1	1.9	1.3	1.9	2.0	1.7	1.7	1.2	1.0	1.4	2.6	5.2	1.0
30	1.4	1.6	1.5	1.8	1.9	2.9	3.4	2.7	3.0	3.6	3.3	3.9	3.5	2.9	3.4	2.8	1.3	1.2	1.1	1.2	1.3	1.3	1.4	1.1	2.2	3.9	1.1
Avg	3.1	3.1	3.3	3.4	3.5	3.6	3.6	3.7	4.2	4.8	4.8	4.9	4.7	4.3	4.0	3.6	3.3	3.0	2.7	2.6	2.9	2.6	2.9	3.1	3.6	--	--
Max	8.3	9.9	8.9	8.2	8.3	8.6	8.3	7.8	9.0	9.4	9.2	9.8	10.6	9.7	8.3	7.8	6.8	6.9	6.3	6.0	8.1	8.4	8.3	8.0	--	10.6	--
Min	0.3	0.3	0.4	0.5	0.6	0.5	0.8	0.8	0.7	1.2	1.4	1.5	1.5	1.9	1.7	1.7	0.8	1.2	0.9	0.5	0.6	0.6	0.5	0.4	--	--	0.3

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Dec 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	1.3	1.8	2.0	2.6	2.3	2.2	2.3	2.9	2.1	2.7	3.5	3.5	3.9	1.7	1.6	1.5	0.6	1.4	1.3	1.7	2.2	2.2	2.3	1.9	2.1	3.9	0.6
2	2.2	2.4	2.2	2.4	2.5	2.3	1.9	2.2	1.4	0.9	2.0	2.4	2.7	2.6	2.1	2.5	2.2	2.0	1.0	0.4	0.4	0.5	0.5	0.7	1.8	2.7	0.4
3	0.1	0.5	0.7	0.3	0.4	1.1	0.8	1.8	0.8	1.4	2.4	3.1	3.6	3.5	4.5	4.1	3.3	2.4	2.5	3.5	3.8	2.6	3.4	3.8	2.3	4.5	0.1
4	2.1	1.9	2.4	2.7	2.0	1.4	3.6	3.8	4.2	5.8	4.4	2.9	2.5	2.7	2.7	2.6	1.7	0.9	1.3	1.8	1.7	1.7	3.7	2.7	2.6	5.8	0.9
5	3.1	1.8	1.0	1.3	1.5	1.4	1.5	1.5	1.6	1.7	1.9	2.1	2.0	2.5	2.5	2.8	2.1	1.7	1.7	2.8	2.0	2.3	1.9	0.9	1.9	3.1	0.9
6	1.1	1.3	0.8	1.1	0.5	0.8	0.7	0.5	0.7	1.6	1.6	1.7	1.6	1.8	2.0	1.8	2.2	3.4	2.0	0.7	1.1	0.9	0.8	0.4	1.3	3.4	0.4
7	0.4	0.5	0.4	0.6	0.5	0.5	0.5	0.4	0.6	1.5	2.5	2.6	3.7	2.5	3.8	3.1	3.1	1.1	2.0	2.0	5.2	5.1	6.7	6.5	2.3	6.7	0.4
8	8.4	8.1	8.1	7.6	6.7	5.1	4.5	2.2	2.2	1.6	2.5	2.1	2.3	2.8	3.7	3.7	2.9	2.5	1.7	1.9	1.3	1.4	1.6	1.9	3.6	8.4	1.3
9	2.1	1.2	0.9	0.3	0.4	0.3	0.4	0.4	0.8	2.4	4.6	5.3	4.3	4.4	6.0	5.8	5.7	5.2	8.3	8.6	7.7	8.2	7.1	7.0	4.1	8.6	0.3
10	7.1	6.4	5.5	5.7	6.1	6.2	8.2	8.8	9.4	9.9	9.8	8.0	8.2	9.2	8.1	6.6	6.1	4.1	5.0	3.8	4.1	4.3	3.8	4.1	6.6	9.9	3.8
11	4.2	6.8	7.8	8.4	8.5	9.4	8.8	8.5	7.9	7.2	7.1	6.5	6.6	6.0	6.7	6.3	6.2	6.2	6.5	7.4	5.2	6.8	8.4	8.6	7.2	9.4	4.2
12	9.2	8.3	8.3	8.1	8.8	9.2	8.9	8.2	7.4	9.0	8.1	6.8	5.5	5.1	5.6	4.8	5.2	2.9	1.6	1.2	1.1	1.2	1.2	1.3	5.7	9.2	1.1
13	0.8	1.7	0.8	0.5	0.7	1.2	0.6	1.2	0.9	1.1	1.6	2.5	2.5	2.5	2.4	1.9	1.7	1.7	1.2	1.1	1.9	0.8	1.0	0.7	1.4	2.5	0.5
14	0.7	1.4	1.7	1.3	6.9	7.8	8.9	9.5	7.7	8.8	10.7	8.7	7.3	6.5	6.7	6.4	5.6	6.4	8.2	6.0	7.8	4.5	6.9	6.5	6.4	10.7	0.7
15	7.1	5.6	7.2	9.2	8.3	7.6	6.8	6.8	7.4	7.4	8.7	7.2	6.6	5.2	4.5	4.3	3.2	3.1	4.5	6.7	6.3	5.3	6.3	6.3	6.3	9.2	3.1
16	7.2	6.4	8.9	7.9	6.8	7.1	6.8	6.4	7.2	6.7	8.2	9.9	8.9	6.1	5.3	4.3	2.1	2.2	2.2	3.1	3.0	2.8	2.9	2.7	5.6	9.9	2.1
17	4.0	5.1	4.6	5.2	3.8	4.0	3.5	4.4	5.0	5.5	5.9	6.7	5.5	5.5	5.7	4.7	4.0	2.9	3.1	3.6	3.2	3.6	2.9	3.4	4.4	6.7	2.9
18	3.6	4.7	6.3	6.0	6.5	6.4	5.9	5.8	6.8	5.2	4.8	5.1	4.1	3.0	2.6	2.3	1.8	1.2	0.6	0.3	1.0	1.0	0.4	1.8	3.6	6.8	0.3
19	4.0	4.9	6.0	6.1	4.9	5.1	5.4	5.1	5.6	5.8	5.5	5.8	5.0	4.4	4.0	2.9	4.0	2.8	2.4	2.5	2.7	2.6	3.1	3.0	4.3	6.1	2.4
20	3.2	1.2	1.3	0.9	1.0	3.9	4.3	3.2	2.2	1.4	1.8	2.5	1.5	1.8	2.2	3.1	2.3	2.5	3.0	3.2	2.3	2.2	1.9	3.5	2.3	4.3	0.9
21	3.9	1.8	2.2	2.6	3.0	2.2	3.7	4.0	4.3	4.4	3.7	2.4	2.6	2.9	2.7	1.6	1.0	1.4	1.3	0.9	1.4	1.3	2.2	1.0	2.4	4.4	0.9
22	1.1	0.8	0.7	0.4	0.4	0.6	1.1	1.4	1.0	1.4	3.5	2.3	2.6	2.4	2.4	2.4	2.2	2.8	2.3	0.6	0.9	1.0	1.4	2.3	1.6	3.5	0.4
23	3.3	4.1	5.1	5.8	6.5	7.3	6.6	8.5	9.9	10.4	9.9	10.0	8.7	8.3	5.6	4.4	5.4	4.1	3.4	4.2	5.6	8.2	8.0	7.1	6.7	10.4	3.3
24	6.8	5.5	6.1	6.7	8.2	8.6	5.4	4.9	5.5	6.1	6.7	6.5	6.1	5.3	4.7	4.6	1.5	0.8	1.3	2.6	3.5	3.8	4.5	7.0	5.1	8.6	0.8
25	10.7	13.3	14.7	15.7	15.1	15.1	13.4	8.4	8.2	9.1	8.6	7.7	7.5	7.2	6.9	4.3	2.8	2.1	4.7	6.1	6.5	7.5	10.3	10.1	9.0	15.7	2.1
26	10.7	10.6	10.6	9.9	10.4	9.8	11.3	11.1	10.3	11.2	11.6	10.6	10.1	9.3	7.5	5.9	5.7	4.2	4.1	4.1	5.3	6.4	8.7	7.4	8.6	11.6	4.1
27	8.1	5.0	6.8	7.0	9.8	8.0	7.5	9.0	10.0	9.5	8.6	9.5	9.2	8.6	5.8	6.7	6.3	7.2	6.2	4.5	4.3	4.9	5.0	4.0	7.1	10.0	4.0
28	5.3	7.8	6.0	6.5	5.9	6.7	4.7	4.2	4.1	4.4	5.2	3.8	2.7	2.0	0.9	1.3	1.7	2.0	1.4	1.1	0.8	0.9	0.8	0.7	3.4	7.8	0.7
29	0.8	0.9	1.0	1.6	1.7	2.1	2.7	3.0	5.2	9.1	9.5	9.7	8.0	7.7	6.8	4.7	5.0	3.4	4.6	7.8	9.1	8.6	4.8	6.1	5.2	9.7	0.8
30	6.2	3.4	3.8	2.8	3.1	3.4	3.1	2.5	2.6	3.5	3.7	3.7	2.5	2.9	3.2	3.0	3.5	2.0	1.0	1.2	1.9	2.2	2.4	3.6	3.0	6.2	1.0
31	2.6	2.5	2.2	2.8	2.6	2.6	4.7	4.6	5.0	5.4	5.8	6.0	5.3	4.1	2.6	1.8	1.8	1.0	1.2	1.5	1.3	1.4	1.8	1.7	3.0	6.0	1.0
Avg	4.2	4.1	4.4	4.5	4.7	4.8	4.8	4.7	4.8	5.2	5.6	5.4	5.0	4.5	4.2	3.7	3.3	2.8	3.0	3.1	3.4	3.4	3.8	3.8	4.2	--	--
Max	10.7	13.3	14.7	15.7	15.1	15.1	13.4	11.1	10.3	11.2	11.6	10.6	10.1	9.3	8.1	6.7	6.3	7.2	8.3	8.6	9.1	8.6	10.3	10.1	--	15.7	--
Min	0.1	0.5	0.4	0.3	0.4	0.3	0.4	0.4	0.6	0.9	1.6	1.7	1.5	1.7	0.9	1.3	0.6	0.8	0.6	0.3	0.4	0.5	0.4	0.4	--	--	0.1

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Oct 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	265	160	151	150	165	157	167	126	103	234	232	214	194	228	257	256	206	184	153	110	136	181	154	158	179	265	103
2	144	206	158	245	196	146	113	129	149	228	228	183	255	265	265	280	257	206	163	161	10	156	168	140	191	280	10
3	123	172	159	113	112	161	137	164	175	174	199	211	198	206	178	159	178	136	110	67	167	191	181	214	164	214	67
4	205	210	220	318	138	83	126	114	101	195	209	216	263	249	204	200	239	251	235	273	265	1	21	23	219	318	1
5	22	24	24	21	22	20	23	22	25	25	27	37	22	21	29	21	29	41	51	34	66	71	48	36	32	71	20
6	23	42	40	34	37	43	40	41	40	33	34	40	42	50	172	131	45	20	51	57	92	114	89	81	54	172	20
7	56	58	58	49	42	37	39	47	39	40	77	96	104	131	162	206	232	250	265	154	148	146	171	220	97	265	37
8	230	256	231	141	156	141	155	123	78	131	203	199	192	194	195	192	172	195	196	193	194	193	203	210	184	256	78
9	203	191	185	176	159	144	130	125	157	175	180	187	182	179	187	179	180	178	175	183	185	210	215	211	178	215	125
10	164	196	200	198	188	192	186	122	213	190	177	170	202	217	183	215	181	183	213	117	171	139	150	167	181	217	117
11	137	128	145	133	92	98	139	117	65	49	265	231	242	269	250	251	248	241	279	143	176	155	130	127	166	279	49
12	134	149	114	105	109	102	93	60	50	80	103	123	141	141	181	244	243	245	249	251	161	185	199	171	146	251	50
13	137	149	143	121	116	81	100	159	178	185	177	189	192	202	205	192	183	178	146	252	265	221	249	337	176	337	81
14	271	250	192	166	164	155	140	137	100	187	237	220	258	242	243	203	199	216	191	284	280	38	107	166	201	284	38
15	137	152	147	142	112	150	152	141	94	267	241	230	267	188	263	197	161	242	236	240	263	297	285	211	202	297	94
16	198	157	134	114	119	64	76	60	29	37	29	356	41	170	223	252	255	242	254	253	256	258	316	172	188	356	29
17	171	152	111	112	97	102	105	106	75	98	229	226	225	228	221	242	225	259	248	256	256	258	249	252	200	259	75
18	253	111	144	158	155	157	163	137	56	54	29	31	11	260	233	224	247	247	258	249	143	103	131	60	157	260	11
19	58	68	34	99	130	108	107	108	58	36	32	30	86	127	258	235	223	262	251	253	278	265	235	157	109	278	30
20	181	180	163	161	156	146	122	138	91	241	230	246	232	239	230	211	191	150	182	239	249	241	145	354	192	354	91
21	274	150	161	166	150	151	151	120	83	107	51	160	233	231	247	219	228	249	252	253	168	114	83	87	171	274	51
22	125	109	47	54	61	43	49	47	40	39	36	29	30	68	138	133	104	32	41	58	65	88	68	67	64	138	29
23	62	61	49	48	41	38	41	44	41	36	30	37	86	120	127	114	115	95	48	49	62	74	89	95	66	127	30
24	83	68	114	102	96	81	73	68	57	94	104	114	128	156	224	256	252	244	251	271	126	141	168	247	127	271	57
25	236	208	254	252	186	183	153	142	99	255	233	246	249	228	216	213	242	254	246	249	242	215	102	85	218	255	85
26	154	143	95	45	21	33	97	89	66	46	39	47	34	38	25	19	17	259	257	162	124	67	71	73	63	259	17
27	53	44	53	64	65	60	49	54	54	44	84	106	125	176	185	206	176	205	198	240	229	268	154	192	117	268	44
28	182	178	181	184	176	173	173	179	184	185	181	205	194	200	190	188	191	198	180	176	181	181	181	182	184	205	173
29	178	188	190	203	186	201	198	153	175	184	186	186	193	188	162	195	113	285	273	259	284	230	226	116	196	285	113
30	10	155	317	182	166	147	168	226	227	232	229	224	209	210	200	233	231	213	194	265	248	267	249	257	221	317	10
31	268	296	171	159	121	91	96	106	72	54	231	235	246	216	237	252	249	247	252	259	267	268	270	196	227	296	54
Avg	160	151	141	130	125	114	117	110	86	111	184	185	198	199	209	213	208	224	221	226	201	184	163	155	166	--	--
Max	274	296	317	318	196	201	198	226	227	267	265	356	267	269	265	280	257	285	279	284	284	297	316	354	--	356	--
Min	10	24	24	21	21	20	23	22	25	25	27	29	11	21	25	19	17	20	41	34	10	1	21	23	--	--	1

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Nov 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	253	172	183	158	162	135	78	92	87	55	37	35	28	6	36	289	247	254	338	99	85	94	83	55	80	338	6
2	85	116	67	46	46	41	33	47	45	43	73	83	93	100	109	109	108	113	68	109	45	171	231	128	82	231	33
3	134	145	130	58	101	108	71	117	80	112	101	176	198	197	206	195	163	121	148	176	238	194	172	162	146	238	58
4	161	150	138	115	103	95	90	71	67	151	178	180	200	190	186	220	192	205	160	214	237	246	210	271	171	271	67
5	156	147	163	175	165	155	216	235	336	295	246	239	232	257	251	208	232	246	253	331	21	55	33	28	229	336	21
6	33	100	64	38	46	42	63	51	43	40	41	31	39	32	33	34	34	51	85	53	31	30	35	37	45	100	30
7	41	40	40	41	41	54	48	49	42	43	66	79	90	97	110	108	95	83	61	70	63	66	80	71	66	110	40
8	66	64	65	45	38	43	41	48	42	42	37	36	292	210	284	202	218	221	248	248	176	158	170	154	79	292	36
9	147	148	155	165	138	126	133	129	99	72	101	236	256	256	255	228	246	249	250	142	150	140	139	123	164	256	72
10	160	173	156	143	133	127	113	106	96	70	42	33	29	17	19	10	23	24	35	87	125	119	103	112	86	173	10
11	113	99	95	101	109	101	88	71	48	40	35	31	31	23	35	44	25	37	98	60	74	89	28	28	62	113	23
12	23	41	55	57	54	44	41	36	46	45	41	82	98	90	68	76	100	86	75	60	57	58	56	54	60	100	23
13	45	40	43	46	44	40	41	40	40	37	37	39	39	37	37	29	24	31	42	34	35	44	46	50	39	50	24
14	55	64	47	51	40	36	49	55	33	32	40	53	105	240	227	204	243	246	242	53	149	165	140	156	78	246	32
15	153	139	171	85	67	83	89	147	178	178	182	186	180	194	185	197	194	193	194	187	203	200	200	194	171	203	67
16	196	192	199	182	189	206	206	205	198	176	171	208	177	193	199	184	177	162	267	251	280	215	14	272	203	280	14
17	260	252	89	317	98	136	173	182	133	180	192	192	188	208	208	225	236	246	78	95	100	112	101	92	166	317	78
18	119	111	113	95	104	102	117	100	62	57	35	41	27	137	221	246	257	256	251	126	156	232	270	263	124	270	27
19	271	139	131	153	139	136	142	100	101	120	111	183	184	238	224	214	188	196	225	240	258	190	228	148	176	271	100
20	136	168	220	138	180	153	119	123	99	114	135	204	197	180	213	211	206	204	167	240	245	224	218	132	177	245	99
21	200	195	183	178	173	125	124	89	73	105	172	173	172	197	237	241	253	238	221	201	131	77	86	117	167	253	73
22	84	80	81	72	108	144	164	154	138	238	241	247	250	241	251	259	45	247	227	271	312	270	340	213	218	340	45
23	74	88	86	93	61	44	59	48	52	46	45	40	43	57	57	53	45	33	42	42	36	40	36	36	52	93	33
24	39	43	39	36	35	39	41	34	40	35	35	34	29	31	33	28	35	42	39	39	29	34	46	56	37	56	28
25	74	66	42	74	107	125	105	106	108	83	65	53	262	238	243	24	31	41	72	36	80	90	100	84	76	262	24
26	69	35	50	38	33	35	42	46	47	39	38	37	43	65	40	63	69	66	61	63	65	71	61	56	51	71	33
27	71	50	43	53	56	56	52	48	41	41	41	38	36	37	39	37	35	40	40	38	41	38	47	46	44	71	35
28	37	41	37	34	33	46	37	38	40	39	41	36	27	27	54	44	26	46	53	37	46	62	51	63	41	63	26
29	68	64	57	55	55	44	38	43	42	41	51	63	110	119	110	158	89	22	71	88	105	177	122	114	77	177	22
30	112	109	93	73	73	60	57	63	55	43	45	40	37	33	33	42	78	85	132	134	138	139	130	120	79	139	33
Avg	98	104	95	82	87	87	82	80	67	65	68	70	87	135	153	163	108	108	96	86	87	116	89	95	87	--	--
Max	271	252	220	317	189	206	216	235	336	295	246	247	292	257	284	289	257	256	338	331	312	270	340	272	--	340	--
Min	23	35	37	34	33	35	33	34	33	32	35	31	27	6	19	10	23	22	35	34	21	30	14	28	--	--	6

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Dec 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	115	146	143	110	119	133	125	104	108	84	63	46	39	37	159	237	169	126	126	131	128	110	84	110	113	237	37
2	139	151	136	159	168	166	170	161	152	96	231	227	234	225	235	241	246	232	210	265	142	134	127	90	181	265	90
3	89	242	143	85	73	133	160	171	85	116	161	194	198	202	204	200	194	198	205	203	202	202	179	176	172	242	73
4	189	190	194	199	205	190	195	192	194	194	178	168	117	169	44	243	245	259	260	230	189	187	205	215	199	260	44
5	215	227	222	232	230	210	210	213	208	219	206	198	220	224	187	212	173	164	205	259	257	258	262	282	220	282	164
6	252	267	223	224	207	101	166	126	107	84	138	159	211	246	244	264	221	258	257	165	161	130	134	236	195	267	84
7	156	133	194	127	163	145	132	109	90	109	212	206	189	199	204	194	192	158	213	197	201	196	200	198	174	213	90
8	203	201	200	199	201	202	191	111	149	92	165	146	141	180	202	203	174	174	156	222	262	217	226	219	187	262	92
9	226	221	275	215	182	147	45	124	123	79	29	30	39	28	31	41	54	43	34	36	36	40	46	47	55	275	28
10	46	45	49	51	46	48	42	39	35	34	32	36	37	35	38	37	37	54	45	59	75	48	56	68	45	75	32
11	49	37	34	33	34	31	33	34	35	38	40	41	39	38	31	33	33	39	38	35	43	40	35	35	37	49	31
12	32	34	34	34	32	30	33	36	37	37	36	28	65	54	23	20	25	54	116	159	159	172	196	266	47	266	20
13	170	238	201	167	155	234	151	254	142	204	178	228	231	229	233	213	213	218	264	230	259	186	223	176	209	264	142
14	147	127	118	126	32	32	32	27	36	36	38	43	45	46	50	52	51	45	27	32	33	50	33	36	50	147	27
15	36	39	40	39	38	57	65	59	51	52	41	56	58	56	60	51	73	83	95	79	90	69	52	45	58	95	36
16	39	45	44	76	75	77	53	74	77	65	44	34	35	42	45	49	54	54	107	105	115	116	113	88	67	116	34
17	53	47	50	55	71	86	119	112	56	53	49	43	50	44	41	41	54	90	83	98	86	84	78	56	66	119	41
18	49	42	37	38	37	38	40	41	37	42	47	42	47	62	79	106	138	111	114	189	137	138	125	175	74	189	37
19	185	186	201	207	192	189	181	174	179	183	188	193	186	184	194	191	191	170	212	239	197	210	206	223	194	239	170
20	224	158	90	34	58	191	198	287	90	97	108	119	104	225	257	265	244	258	252	253	219	207	201	211	199	287	34
21	208	209	173	177	190	198	196	204	206	204	208	173	168	199	190	139	193	257	183	74	263	268	267	345	201	345	74
22	46	258	158	136	167	162	138	158	125	81	58	48	235	219	224	230	233	249	264	105	154	146	96	84	157	264	46
23	71	55	84	58	72	71	87	49	38	38	39	39	42	41	45	52	38	49	63	68	45	33	34	36	52	87	33
24	40	47	45	41	35	34	46	49	47	42	36	35	34	31	30	24	69	89	101	79	74	64	63	35	49	101	24
25	32	25	26	25	22	24	29	92	79	42	43	44	47	46	41	64	67	66	81	77	65	46	37	36	48	92	22
26	37	38	40	43	38	35	31	31	41	41	37	37	40	37	30	28	42	61	88	84	45	43	26	44	42	88	26
27	33	73	70	62	37	39	42	39	39	37	36	33	27	28	46	26	29	35	40	79	56	46	43	52	43	79	26
28	41	31	37	34	36	32	43	44	48	50	43	47	38	116	102	122	153	234	255	91	164	142	147	142	74	255	31
29	115	143	136	168	163	149	101	76	68	26	20	24	20	22	18	23	26	40	36	24	22	22	65	31	56	168	18
30	37	64	60	103	121	121	124	123	118	101	55	51	10	233	243	247	250	294	155	132	64	60	83	106	97	294	10
31	112	100	95	64	62	69	46	42	41	42	44	38	37	34	26	39	52	97	131	114	108	134	142	88	72	142	26
Avg	91	101	101	94	94	103	99	90	84	71	67	64	62	70	61	61	113	102	131	116	118	113	106	85	91	--	--
Max	252	267	275	232	230	234	210	287	208	219	231	228	235	246	257	265	250	294	264	265	263	268	267	345	--	345	--
Min	32	25	26	25	22	24	29	27	35	26	20	24	10	22	18	20	25	35	27	24	22	22	26	31	--	--	10

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Oct 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	0.94	1.25	0.77	0.79	1.25	1.19	1.06	0.41	-0.68	-0.57	-0.96	-1.20	-1.22	-1.21	-1.10	-0.95	-0.61	-0.13	0.26	0.66	0.65	0.87	1.18	0.92	0.15	1.25	-1.22
2	0.88	0.80	1.13	1.30	1.15	0.84	0.60	-0.19	-0.66	-0.75	-0.98	-1.40	-1.19	-1.31	-1.19	-0.95	-0.62	-0.14	0.19	0.19	0.46	0.70	0.55	0.53	0.00	1.30	-1.40
3	0.96	0.79	0.61	0.65	0.66	0.77	0.81	0.00	-0.65	-1.14	-1.09	-1.06	-1.35	-1.13	-1.09	-0.93	-0.60	-0.11	0.16	0.23	0.20	0.21	0.18	0.22	-0.11	0.96	-1.35
4	0.18	0.19	0.27	0.44	0.41	0.46	0.68	-0.20	-0.78	-0.84	-1.10	-1.16	-1.09	-1.18	-1.06	-0.85	-0.55	-0.12	0.11	0.08	0.18	0.35	0.23	0.11	-0.22	0.68	-1.18
5	0.11	0.09	0.09	0.09	0.09	0.12	0.09	-0.24	-0.58	-0.90	-1.16	-1.40	-1.58	-1.51	-1.46	-1.20	-0.69	-0.03	0.21	0.24	0.17	0.15	0.19	0.19	-0.37	0.24	-1.58
6	0.17	0.19	0.24	0.22	0.22	0.22	0.17	-0.30	-0.67	-0.95	-1.25	-1.41	-1.53	-1.71	-1.32	-1.23	-0.74	0.11	0.57	0.52	0.70	0.77	0.65	0.60	-0.24	0.77	-1.71
7	0.51	0.38	0.42	0.45	0.40	0.45	0.28	-0.27	-0.63	-1.11	-1.12	-1.26	-1.41	-1.51	-1.06	-1.05	-0.26	-0.03	0.09	0.70	0.61	0.70	0.78	1.20	-0.11	1.20	-1.51
8	1.02	0.64	0.85	0.87	1.04	1.04	0.96	-0.08	-0.73	-1.02	-1.13	-1.11	-1.12	-1.05	-0.96	-0.85	-0.48	-0.05	0.14	0.22	0.20	0.21	0.23	0.24	-0.04	1.04	-1.13
9	0.29	0.38	0.46	0.33	0.35	0.45	0.36	-0.30	-0.60	-0.93	-1.18	-1.19	-1.09	-1.09	-0.90	-0.69	-0.31	-0.11	-0.06	-0.04	-0.02	-0.03	-0.01	-0.01	-0.25	0.46	-1.19
10	-0.10	-0.14	-0.16	-0.15	-0.14	-0.14	-0.14	-0.23	-0.14	-0.16	-0.29	-0.38	0.39	-0.68	-0.85	-0.79	-0.69	-0.13	0.24	0.52	0.58	0.59	0.62	0.78	-0.07	0.78	-0.85
11	0.83	0.62	0.88	0.58	0.22	0.33	0.40	-0.41	-0.69	-1.26	-0.83	-1.03	-1.12	-0.97	-0.90	-0.72	-0.54	-0.08	0.19	0.63	0.63	0.75	0.71	0.70	-0.05	0.88	-1.26
12	0.70	0.77	0.49	0.42	0.44	0.46	0.75	-0.17	-0.72	-1.06	-1.18	-1.31	-1.46	-1.33	-1.12	-0.79	-0.47	-0.07	0.08	0.30	0.76	0.76	1.58	1.07	-0.05	1.58	-1.46
13	0.73	0.44	0.46	0.65	0.69	0.78	0.75	0.24	-0.39	-0.80	-1.13	-1.14	-1.02	-1.07	-0.98	-0.68	-0.40	-0.04	0.16	0.17	0.15	0.25	0.28	0.51	-0.06	0.78	-1.14
14	0.33	0.30	0.90	0.67	0.59	0.88	0.63	-0.20	-0.58	-0.69	-0.75	-1.00	-1.12	-1.00	-0.91	-0.92	-0.54	-0.04	0.20	0.50	0.71	0.61	0.68	1.05	0.01	1.05	-1.12
15	0.60	0.71	1.04	0.71	0.45	0.70	0.66	-0.05	-0.70	-0.58	-0.86	-0.95	-1.09	-1.10	-0.95	-0.78	-0.50	-0.02	0.12	0.18	0.19	0.26	0.24	0.83	-0.04	1.04	-1.10
16	0.95	0.86	0.83	0.61	0.47	0.40	0.23	-0.25	-0.63	-1.11	-1.59	-1.58	-1.57	-1.33	-1.10	-0.80	-0.45	-0.05	0.03	0.05	0.13	0.50	0.73	0.81	-0.16	0.95	-1.59
17	1.19	0.87	0.62	0.61	0.51	0.53	0.35	-0.33	-0.69	-0.91	-0.80	-0.98	-1.11	-1.09	-1.06	-0.85	-0.50	-0.05	0.04	0.09	0.27	0.35	0.25	0.20	-0.10	1.19	-1.11
18	0.47	0.82	0.95	0.83	1.32	0.94	0.83	0.13	-0.73	-1.11	-1.39	-1.71	-1.56	-1.11	-1.01	-0.84	-0.37	0.01	0.14	0.42	0.93	0.91	0.49	0.59	0.00	1.32	-1.71
19	0.45	0.47	0.43	0.34	0.47	0.50	0.36	-0.15	-0.61	-1.05	-1.42	-1.70	-1.68	-1.44	-0.96	-0.76	-0.48	0.01	0.07	0.23	1.02	1.80	0.88	1.10	-0.09	1.80	-1.70
20	1.24	0.93	0.86	1.37	1.09	0.66	0.40	0.11	-0.60	-0.48	-0.77	-0.80	-1.05	-0.98	-1.01	-0.92	-0.40	0.07	0.20	0.42	0.56	0.94	0.76	0.95	0.15	1.37	-1.05
21	0.68	1.08	0.79	0.83	0.83	1.15	1.11	-0.01	-0.77	-0.95	-1.51	-1.33	-1.06	-1.10	-0.88	-0.85	-0.44	0.02	0.10	0.36	0.81	0.69	0.67	0.45	0.03	1.15	-1.51
22	0.45	0.43	0.53	0.41	0.41	0.37	0.34	-0.17	-0.64	-1.02	-1.27	-1.40	-1.48	-1.42	-1.21	-1.03	-0.51	0.31	0.57	0.47	0.57	0.65	0.66	0.60	-0.14	0.66	-1.48
23	0.54	0.38	0.41	0.38	0.44	0.39	0.31	-0.14	-0.58	-0.97	-1.17	-1.42	-1.24	-1.28	-1.19	-0.82	-0.36	0.28	0.51	0.59	0.57	0.60	0.49	0.56	-0.11	0.60	-1.42
24	0.74	0.71	0.37	0.46	0.40	0.68	0.66	-0.12	-0.68	-0.87	-0.92	-1.06	-1.39	-1.11	-0.71	-0.45	-0.11	0.05	0.23	0.41	1.04	1.02	0.92	0.86	0.05	1.04	-1.39
25	1.28	0.87	0.97	1.04	1.40	1.12	0.72	0.18	-0.56	-0.66	-0.83	-0.84	-0.99	-1.04	-0.93	-0.65	-0.38	0.03	0.10	0.21	0.92	1.02	0.94	0.53	0.19	1.40	-1.04
26	0.78	0.68	0.39	0.51	0.45	0.45	0.27	-0.17	-0.60	-0.97	-1.23	-1.36	-1.58	-1.53	-1.35	-0.84	-0.39	0.15	0.46	0.43	0.83	0.47	0.38	0.34	-0.14	0.83	-1.58
27	0.36	0.34	0.36	0.27	0.28	0.30	0.30	-0.14	-0.67	-1.09	-1.16	-1.27	-1.35	-1.30	-1.01	-0.68	-0.33	0.10	0.21	0.24	0.18	0.20	0.40	0.40	-0.21	0.40	-1.35
28	0.41	0.31	0.24	0.26	0.19	0.21	0.19	0.03	-0.21	-0.45	-0.86	-1.00	-1.09	-0.80	-0.47	-0.32	-0.13	-0.01	0.02	0.03	0.09	0.13	0.12	0.09	-0.13	0.41	-1.09
29	0.09	0.14	0.20	0.19	0.38	0.60	0.66	0.01	-0.46	-0.80	-1.08	-1.11	-1.06	-0.83	-0.35	-0.40	-0.24	-0.09	0.02	0.09	0.16	0.23	0.65	0.50	-0.10	0.66	-1.11
30	0.60	0.59	0.94	0.75	0.44	0.74	0.54	0.49	-0.32	-0.71	-0.85	-1.02	-1.05	-1.16	-1.10	-0.66	-0.34	0.02	0.12	0.11	0.24	0.29	0.24	0.26	-0.04	0.94	-1.16
31	0.37	0.43	0.98	0.85	0.57	0.58	0.50	-0.22	-0.68	-1.23	-0.85	-0.96	-1.07	-1.13	-0.88	-0.55	-0.23	0.00	0.02	0.08	0.18	0.24	0.41	0.92	-0.07	0.98	-1.23
Avg	0.60	0.56	0.59	0.57	0.56	0.59	0.51	-0.09	-0.60	-0.88	-1.06	-1.18	-1.20	-1.18	-1.00	-0.80	-0.44	-0.01	0.18	0.30	0.47	0.55	0.55	0.58	-0.08	--	--
Max	1.28	1.25	1.13	1.37	1.40	1.19	1.11	0.49	-0.14	-0.16	-0.29	-0.38	0.39	-0.68	-0.35	-0.32	-0.11	0.31	0.57	0.70	1.04	1.80	1.58	1.20	--	1.80	--
Min	-0.10	-0.14	-0.16	-0.15	-0.14	-0.14	-0.14	-0.41	-0.78	-1.26	-1.59	-1.71	-1.68	-1.71	-1.46	-1.23	-0.74	-0.14	-0.06	-0.04	-0.02	-0.03	-0.01	-0.01	--	--	-1.71

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Nov 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	0.83	0.70	0.70	0.88	1.10	0.60	0.41	-0.03	-0.50	-0.89	-1.24	-1.40	-1.56	-1.24	-1.29	-0.95	-0.28	0.09	0.49	0.75	0.50	0.45	0.49	0.42	-0.04	1.10	-1.56
2	0.47	0.68	0.41	0.38	0.35	0.35	0.35	-0.05	-0.48	-0.82	-0.92	-0.90	-1.05	-1.08	-0.87	-0.50	-0.15	0.46	0.70	0.83	0.91	0.80	0.33	0.21	0.02	0.91	-1.08
3	0.36	0.26	0.17	0.21	0.11	0.24	0.28	-0.08	-0.48	-0.86	-0.93	-1.19	-0.96	-0.94	-0.68	-0.68	-0.27	0.12	0.36	0.66	0.63	0.96	0.75	0.85	-0.05	0.96	-1.19
4	0.82	0.64	0.67	0.94	0.59	0.85	0.67	-0.11	-0.86	-0.97	-1.14	-1.26	-1.01	-1.02	-0.85	-0.46	-0.19	-0.03	0.11	0.14	0.11	0.07	-0.05	0.09	-0.09	0.94	-1.26
5	0.25	0.37	0.35	0.44	0.40	0.36	0.60	0.14	-0.41	-0.83	-0.84	-0.89	-0.80	-0.47	-0.50	-0.45	-0.35	0.00	0.04	0.18	0.45	0.32	0.27	0.24	-0.05	0.60	-0.89
6	0.36	0.29	0.23	0.27	0.23	0.25	0.26	-0.03	-0.44	-0.83	-1.02	-1.14	-1.27	-1.30	-1.06	-0.72	-0.12	0.37	0.28	0.38	0.35	0.30	0.30	0.29	-0.16	0.38	-1.30
7	0.27	0.26	0.28	0.26	0.25	0.24	0.26	-0.07	-0.42	-0.70	-0.85	-0.88	-0.88	-0.82	-0.80	-0.53	-0.07	0.33	0.46	0.60	0.71	0.74	0.65	0.56	-0.01	0.74	-0.88
8	0.42	0.41	0.32	0.40	0.41	0.36	0.37	-0.06	-0.68	-0.76	-1.39	-1.55	-1.35	-1.00	-0.94	-0.90	-0.31	0.11	0.17	0.68	0.79	0.71	0.88	1.08	-0.08	1.08	-1.55
9	0.95	0.87	0.74	0.94	0.90	0.80	0.69	0.25	-0.61	-1.14	-1.15	-0.87	-0.84	-0.94	-0.91	-0.71	-0.28	0.08	0.22	0.66	0.80	0.78	1.29	1.02	0.15	1.29	-1.15
10	1.19	1.04	1.22	0.87	0.51	0.54	0.30	0.00	-0.06	-0.45	-0.74	-1.07	-1.31	-1.05	-1.16	-0.57	0.04	0.31	0.40	0.53	0.59	0.67	0.59	0.64	0.13	1.22	-1.31
11	0.59	0.37	0.26	0.32	0.64	0.67	0.47	0.10	-0.43	-0.81	-1.05	-1.17	-1.33	-1.22	-1.07	-0.70	-0.04	0.85	0.56	0.52	0.46	0.43	0.43	0.37	-0.03	0.85	-1.33
12	0.37	0.40	0.31	0.41	0.40	0.37	0.34	0.06	-0.40	-0.75	-0.84	-0.78	-0.91	-0.88	-0.49	-0.39	-0.13	0.09	0.17	0.15	0.14	0.13	0.11	0.11	-0.08	0.41	-0.91
13	0.09	0.04	0.03	0.01	0.00	0.06	0.09	-0.05	-0.49	-0.80	-0.99	-1.11	-1.18	-1.11	-0.92	-0.64	-0.18	0.15	0.19	0.23	0.22	0.25	0.23	0.23	-0.24	0.25	-1.18
14	0.18	0.16	0.19	0.20	0.24	0.23	0.22	-0.07	-0.50	-0.89	-1.36	-1.48	-1.27	-0.88	-0.88	-0.72	-0.23	0.08	0.49	0.83	0.93	0.76	0.76	0.84	-0.09	0.93	-1.48
15	0.62	0.68	0.29	0.72	0.55	0.44	0.41	0.39	0.01	-0.35	-0.50	-0.78	-0.59	-0.55	-0.39	-0.30	0.04	0.02	0.04	0.29	0.15	0.04	-0.02	-0.05	0.05	0.72	-0.78
16	-0.07	-0.07	-0.06	-0.08	-0.07	-0.08	-0.10	-0.13	-0.13	-0.18	-0.37	-0.34	-0.54	-0.48	-0.54	-0.49	-0.16	0.07	0.12	0.15	0.13	0.18	0.37	0.21	-0.11	0.37	-0.54
17	0.13	0.19	0.19	0.20	0.27	0.49	0.53	0.14	-0.27	-0.63	-0.89	-1.11	-1.06	-0.99	-0.93	-0.56	-0.23	0.29	0.38	0.29	0.40	0.43	0.44	0.41	-0.08	0.53	-1.11
18	0.51	0.37	0.32	0.18	0.22	0.28	0.52	0.16	-0.26	-0.44	-1.15	-1.22	-1.51	-0.85	-0.63	-0.62	-0.14	0.06	0.12	0.58	0.84	0.99	0.58	0.95	-0.01	0.99	-1.51
19	1.15	1.10	1.05	0.68	0.89	0.70	0.66	0.38	-0.32	-0.75	-1.01	-1.12	-1.17	-0.95	-0.85	-0.72	-0.19	0.09	0.16	0.14	0.22	0.62	0.95	0.51	0.09	1.15	-1.17
20	0.56	0.63	0.77	0.86	0.53	0.39	0.35	0.22	-0.21	-0.61	-0.85	-0.97	-0.80	-0.53	-0.51	-0.29	-0.15	-0.08	-0.06	-0.03	-0.03	-0.02	0.01	0.04	-0.03	0.86	-0.97
21	0.27	0.27	0.38	0.26	0.18	0.10	0.20	0.15	-0.27	-0.29	-0.62	-0.79	-1.13	-0.68	-0.40	-0.29	-0.12	0.07	0.05	0.34	0.25	0.08	0.01	-0.03	-0.09	0.38	-1.13
22	-0.11	-0.06	0.08	0.10	0.23	0.31	0.22	0.11	-0.04	-0.10	-0.12	-0.15	-0.11	-0.12	-0.11	-0.12	-0.20	-0.08	-0.09	0.00	-0.04	-0.07	-0.11	-0.13	-0.03	0.31	-0.20
23	-0.12	-0.08	0.07	0.27	0.18	0.14	0.01	0.00	-0.11	-0.05	-0.03	0.00	-0.10	-0.08	-0.14	-0.33	-0.07	0.14	0.00	0.00	0.03	0.01	-0.01	-0.02	-0.01	0.27	-0.33
24	-0.03	-0.03	-0.03	-0.03	-0.02	0.01	0.03	-0.01	-0.11	-0.28	-0.43	-0.51	-0.34	-0.39	-0.47	-0.43	-0.03	0.16	0.20	0.23	0.21	0.23	0.25	0.22	-0.07	0.25	-0.51
25	0.24	0.28	0.22	0.16	0.19	0.33	0.37	0.05	-0.48	-0.71	-1.03	-1.19	-0.85	-0.77	-0.82	-0.61	-0.01	0.37	0.36	0.41	0.36	0.43	0.42	0.27	-0.08	0.43	-1.19
26	0.28	0.35	0.33	0.37	0.36	0.34	0.28	0.10	-0.32	-0.56	-0.74	-0.90	-0.91	-0.80	-0.59	-0.36	0.04	0.21	0.23	0.23	0.23	0.28	0.25	0.22	-0.05	0.37	-0.91
27	0.23	0.23	0.21	0.17	0.16	0.17	0.14	0.11	-0.10	-0.33	-0.38	-0.43	-0.41	-0.38	-0.35	-0.35	0.04	0.18	0.27	0.28	0.30	0.25	0.19	0.25	0.02	0.30	-0.43
28	0.31	0.26	0.25	0.27	0.29	0.26	0.25	0.07	-0.32	-0.64	-0.93	-1.12	-1.06	-1.00	-0.83	-0.60	0.11	0.34	0.32	0.42	0.41	0.41	0.44	0.37	-0.07	0.44	-1.12
29	0.45	0.44	0.43	0.38	0.32	0.35	0.41	0.21	-0.33	-0.72	-1.09	-1.25	-1.06	-0.99	-0.80	-0.66	-0.13	0.38	0.42	0.54	0.56	0.87	0.93	0.77	0.02	0.93	-1.25
30	0.78	0.69	0.76	0.61	0.45	0.41	0.43	0.32	-0.06	-0.42	-0.57	-0.62	-0.75	-0.78	-0.56	-0.28	0.15	0.44	0.58	0.76	0.75	0.92	0.87	0.77	0.24	0.92	-0.78
Avg	0.41	0.39	0.37	0.39	0.36	0.35	0.33	0.07	-0.34	-0.62	-0.84	-0.94	-0.94	-0.81	-0.71	-0.53	-0.12	0.19	0.26	0.39	0.41	0.43	0.42	0.39	-0.03	--	--
Max	1.19	1.10	1.22	0.94	1.10	0.85	0.69	0.39	0.01	-0.05	-0.03	0.00	-0.10	-0.08	-0.11	-0.12	0.15	0.85	0.70	0.83	0.93	0.99	1.29	1.08	--	1.29	--
Min	-0.12	-0.08	-0.06	-0.08	-0.07	-0.08	-0.10	-0.13	-0.86	-1.14	-1.39	-1.55	-1.56	-1.30	-1.29	-0.95	-0.35	-0.08	-0.09	-0.03	-0.04	-0.07	-0.11	-0.13	--	--	-1.56

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Dec 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	0.85	0.74	0.60	0.36	0.41	0.52	0.49	0.16	-0.32	-0.57	-0.89	-1.16	-1.42	-1.04	-0.59	-0.33	0.11	0.59	0.71	0.50	0.56	0.52	0.52	0.70	0.08	0.85	-1.42
2	0.70	0.79	0.59	0.93	0.98	1.20	0.93	1.00	-0.17	-0.59	-0.46	-0.65	-0.70	-0.61	-0.54	-0.43	-0.04	0.19	0.43	0.72	0.72	0.75	0.99	1.19	0.33	1.20	-0.70
3	1.08	0.87	0.60	0.65	0.76	1.23	1.01	1.14	-0.38	-0.66	-0.77	-0.88	-1.00	-0.78	-0.69	-0.50	-0.11	0.29	0.57	0.37	0.28	0.32	0.43	0.24	0.17	1.23	-1.00
4	0.26	0.33	0.55	0.39	0.26	0.23	0.18	0.07	-0.07	-0.29	-0.21	-0.14	-0.23	-0.19	-0.21	-0.11	-0.03	-0.04	-0.01	-0.09	-0.09	0.00	-0.08	-0.08	0.02	0.55	-0.29
5	-0.07	-0.02	-0.01	0.01	-0.01	0.00	0.02	0.02	-0.23	-0.41	-0.76	-0.64	-0.90	-0.75	-0.67	-0.55	-0.20	0.03	0.08	0.04	0.08	0.07	0.10	0.20	-0.19	0.20	-0.90
6	0.26	0.21	0.33	0.31	0.61	0.59	0.54	0.82	-0.34	-0.83	-0.94	-0.89	-1.03	-0.79	-0.81	-0.51	-0.24	0.01	0.18	0.57	0.72	0.35	0.50	0.62	0.01	0.82	-1.03
7	0.63	0.74	0.70	0.88	0.47	0.55	0.60	0.38	-0.28	-0.78	-0.65	-0.88	-1.08	-0.74	-0.80	-0.54	-0.18	0.18	0.28	0.00	0.00	-0.04	-0.06	-0.08	-0.03	0.88	-1.08
8	-0.08	-0.04	-0.03	-0.02	0.00	-0.01	-0.04	-0.09	-0.15	-0.55	-0.36	-0.46	-0.40	-0.27	-0.41	-0.33	-0.11	-0.01	-0.02	-0.04	0.01	0.06	0.09	0.00	-0.14	0.09	-0.55
9	0.04	0.14	0.21	0.55	0.59	0.76	0.66	0.69	-0.24	-0.78	-1.05	-1.22	-1.25	-1.16	-0.85	-0.48	-0.04	0.25	0.22	0.21	0.20	0.20	0.18	0.20	-0.08	0.76	-1.25
10	0.21	0.22	0.21	0.20	0.21	0.21	0.19	0.13	-0.02	-0.31	-0.44	-0.60	-0.64	-0.55	-0.54	-0.31	0.03	0.20	0.29	0.27	0.24	0.32	0.30	0.28	0.00	0.32	-0.64
11	0.28	0.29	0.26	0.23	0.21	0.21	0.23	0.16	-0.20	-0.56	-0.75	-0.95	-1.02	-1.00	-0.70	-0.39	0.06	0.28	0.32	0.34	0.34	0.35	0.28	0.27	-0.06	0.35	-1.02
12	0.26	0.26	0.28	0.27	0.22	0.23	0.24	0.15	-0.23	-0.52	-0.76	-0.91	-1.00	-1.17	-1.13	-0.32	0.03	0.11	0.30	0.47	0.69	0.53	0.47	0.37	-0.05	0.69	-1.17
13	0.72	0.40	0.65	0.99	0.68	0.85	0.67	0.69	-0.03	-0.39	-0.78	-0.74	-0.73	-0.86	-0.70	-0.65	-0.18	0.09	0.19	0.69	0.33	0.75	1.22	0.90	0.20	1.22	-0.86
14	0.97	0.82	0.54	0.65	0.54	0.38	0.34	0.23	-0.18	-0.46	-0.62	-0.79	-0.88	-0.79	-0.63	-0.34	0.03	0.27	0.27	0.31	0.27	0.25	0.31	0.31	0.08	0.97	-0.88
15	0.31	0.32	0.28	0.23	0.23	0.23	0.23	0.13	-0.17	-0.42	-0.62	-0.84	-0.83	-0.80	-0.67	-0.42	0.06	0.34	0.28	0.21	0.21	0.25	0.28	0.30	-0.04	0.34	-0.84
16	0.28	0.26	0.25	0.19	0.19	0.19	0.24	0.16	-0.12	-0.40	-0.65	-0.69	-0.69	-0.66	-0.42	-0.13	0.18	0.52	0.54	0.51	0.53	0.63	0.60	0.49	0.08	0.63	-0.69
17	0.42	0.43	0.44	0.39	0.38	0.34	0.42	0.46	-0.06	-0.41	-0.68	-0.88	-0.90	-0.83	-0.64	-0.36	0.06	0.29	0.35	0.46	0.49	0.39	0.40	0.36	0.05	0.49	-0.90
18	0.39	0.42	0.41	0.41	0.38	0.31	0.26	0.21	0.05	-0.02	-0.54	-0.70	-0.57	-0.74	-0.86	-0.20	0.18	0.85	0.51	0.55	0.79	1.17	0.68	1.03	0.21	1.17	-0.86
19	0.72	0.46	0.25	0.23	0.32	0.30	0.29	0.25	-0.06	-0.43	-0.72	-0.82	-0.99	-0.91	-0.77	-0.52	-0.17	0.01	0.08	0.03	-0.08	-0.09	-0.11	-0.07	-0.12	0.72	-0.99
20	-0.04	-0.03	-0.06	0.13	0.11	-0.02	-0.02	0.04	-0.08	-0.19	-0.36	-0.56	-0.70	-0.24	-0.19	-0.14	-0.08	0.02	0.00	-0.08	-0.06	-0.06	-0.06	-0.07	-0.11	0.13	-0.70
21	-0.07	-0.05	-0.06	-0.05	-0.04	-0.06	-0.05	-0.07	-0.08	-0.10	-0.12	-0.13	-0.25	-0.05	-0.02	-0.20	-0.13	0.17	0.28	0.25	0.08	0.25	0.17	0.46	0.00	0.46	-0.25
22	0.57	0.93	0.86	0.67	0.69	0.78	1.10	0.67	-0.02	-0.61	-0.82	-1.05	-0.73	-0.76	-0.62	-0.51	-0.17	0.06	0.11	0.51	0.49	0.75	0.74	0.56	0.18	1.10	-1.05
23	0.37	0.32	0.27	0.33	0.25	0.25	0.25	0.26	-0.05	-0.32	-0.52	-0.61	-0.66	-0.61	-0.60	-0.36	0.15	0.34	0.34	0.36	0.39	0.39	0.39	0.40	0.06	0.40	-0.66
24	0.38	0.35	0.34	0.36	0.35	0.33	0.34	0.29	-0.14	-0.49	-0.68	-0.88	-0.95	-1.01	-0.80	-0.44	0.00	0.88	0.53	0.40	0.49	0.52	0.63	0.55	0.06	0.88	-1.01
25	0.36	0.31	0.30	0.27	0.24	0.22	0.27	0.14	-0.15	-0.42	-0.58	-0.78	-0.74	-0.71	-0.57	-0.37	0.08	0.53	0.35	0.24	0.23	0.26	0.28	0.28	0.00	0.53	-0.78
26	0.26	0.24	0.22	0.22	0.21	0.22	0.22	0.15	-0.14	-0.42	-0.60	-0.71	-0.73	-0.69	-0.56	-0.37	0.06	0.32	0.32	0.29	0.37	0.40	0.38	0.29	0.00	0.40	-0.73
27	0.31	0.28	0.25	0.24	0.31	0.30	0.29	0.22	-0.11	-0.42	-0.63	-0.74	-0.73	-0.70	-0.65	-0.36	0.09	0.36	0.38	0.25	0.41	0.40	0.42	0.43	0.03	0.43	-0.74
28	0.41	0.34	0.37	0.35	0.39	0.36	0.34	0.26	-0.15	-0.55	-0.79	-1.03	-1.20	-0.85	-0.56	-0.41	-0.05	0.20	0.44	0.48	0.67	0.63	0.79	0.81	0.05	0.81	-1.20
29	0.77	0.78	0.87	1.00	0.94	0.81	0.43	0.26	-0.08	-0.27	-0.48	-0.67	-0.77	-0.77	-0.63	-0.50	0.06	0.47	0.50	0.33	0.27	0.27	0.29	0.35	0.18	1.00	-0.77
30	0.31	0.28	0.34	0.39	0.49	0.44	0.34	0.35	-0.25	-0.61	-0.82	-1.06	-1.08	-0.73	-0.54	-0.33	-0.06	0.47	0.74	0.91	0.81	0.68	0.66	0.46	0.09	0.91	-1.08
31	0.58	0.61	0.67	0.46	0.39	0.40	0.37	0.31	-0.16	-0.54	-0.85	-1.00	-1.16	-1.22	-1.10	-0.83	-0.12	0.83	0.89	0.75	0.95	1.16	0.85	0.69	0.12	1.16	-1.22
Avg	0.40	0.39	0.37	0.39	0.38	0.40	0.37	0.31	-0.15	-0.46	-0.64	-0.78	-0.84	-0.74	-0.63	-0.39	-0.02	0.29	0.34	0.35	0.37	0.40	0.41	0.40	0.04	--	--
Max	1.08	0.93	0.87	1.00	0.98	1.23	1.10	1.14	0.05	-0.02	-0.12	-0.13	-0.23	-0.05	-0.02	-0.11	0.18	0.88	0.89	0.91	0.95	1.17	1.22	1.19	--	1.23	--
Min	-0.08	-0.05	-0.06	-0.05	-0.04	-0.06	-0.05	-0.09	-0.38	-0.83	-1.05	-1.22	-1.42	-1.22	-1.13	-0.83	-0.24	-0.04	-0.02	-0.09	-0.09	-0.09	-0.11	-0.08	--	--	-1.42

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Oct 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	20.9	18.6	18.6	17.7	17.4	17.1	17.3	18.5	21.8	23.3	24.4	25.5	26.2	26.5	26.6	26.3	25.8	24.9	23.7	22.9	21.4	20.7	20.0	20.2	21.9	26.6	17.1
2	19.1	19.7	18.0	18.8	17.5	16.7	16.4	18.1	21.3	22.1	23.2	24.2	24.7	25.5	25.6	25.5	25.0	24.0	23.0	22.5	21.9	20.0	19.8	19.0	21.3	25.6	16.4
3	18.5	18.8	18.6	17.5	16.5	16.1	16.2	18.1	19.9	21.5	22.7	23.7	24.5	24.6	25.2	25.3	25.0	24.0	22.8	22.1	21.8	21.2	20.3	19.7	21.0	25.3	16.1
4	18.9	18.1	17.2	16.3	15.1	14.8	14.2	16.0	18.5	20.0	20.9	21.9	22.5	22.7	22.8	22.6	22.0	20.9	19.9	19.4	18.9	17.1	16.1	15.1	18.8	22.8	14.2
5	14.1	13.4	13.0	12.2	11.6	11.3	11.6	12.1	13.0	14.6	16.5	18.8	20.5	21.3	22.1	21.7	20.9	19.5	18.0	17.4	16.8	16.4	16.4	16.3	16.2	22.1	11.3
6	16.0	15.3	14.5	14.1	13.6	13.7	14.2	15.2	16.2	17.4	19.7	21.7	23.5	25.1	25.6	25.9	25.3	23.5	21.7	20.2	18.7	18.3	18.6	17.8	19.0	25.9	13.6
7	18.1	17.5	17.1	16.8	16.5	16.4	16.5	17.6	19.7	22.3	24.2	25.4	26.9	27.8	27.6	27.7	26.1	25.1	24.6	23.0	21.6	21.1	21.1	21.0	21.7	27.8	16.4
8	21.4	22.1	20.6	18.3	17.8	16.9	17.1	18.5	20.9	23.2	23.9	24.5	24.8	24.7	24.9	24.9	24.3	23.3	22.6	22.1	21.8	21.3	20.6	19.3	21.7	24.9	16.9
9	18.7	18.7	18.7	18.3	17.5	17.0	17.0	18.3	20.2	21.4	22.6	23.3	23.9	24.7	24.7	24.6	23.2	21.3	19.7	18.4	17.3	16.1	15.0	14.2	19.8	24.7	14.2
10	13.2	12.5	12.1	12.1	11.4	10.4	10.5	7.4	6.8	6.9	7.2	7.5	8.6	10.7	11.8	12.2	12.3	11.5	10.9	9.6	8.9	8.4	8.0	8.1	10.0	13.2	6.8
11	8.3	7.7	7.9	7.1	6.9	6.2	6.0	8.1	11.9	14.2	15.2	16.0	16.9	17.1	17.6	17.9	17.7	16.6	15.7	14.0	13.1	12.8	12.2	12.1	12.5	17.9	6.0
12	12.0	11.8	11.4	11.1	10.8	10.6	11.7	14.2	16.4	18.8	20.0	21.3	22.2	22.8	23.1	22.4	21.7	20.6	19.6	18.9	17.1	16.2	16.3	16.1	17.0	23.1	10.6
13	15.5	15.5	15.3	14.9	14.9	14.5	14.7	16.8	18.5	19.3	20.2	21.0	21.6	22.0	22.2	21.9	21.6	20.6	19.7	18.8	18.5	18.1	17.5	16.7	18.3	22.2	14.5
14	16.2	15.5	14.3	12.8	12.8	12.1	11.8	13.3	16.0	17.6	18.2	19.3	19.9	20.4	20.5	20.5	19.9	18.6	17.6	17.1	16.4	16.2	14.6	13.7	16.5	20.5	11.8
15	13.3	12.7	12.3	11.8	11.8	10.8	11.1	12.9	16.7	18.3	19.2	19.8	20.4	20.5	20.3	20.1	19.5	18.1	17.3	16.7	16.3	16.0	15.9	14.2	16.1	20.5	10.8
16	13.6	12.5	11.4	10.5	10.4	11.2	10.9	12.1	14.1	15.7	17.3	18.5	19.7	20.4	20.3	20.1	19.3	18.2	17.0	16.3	16.0	15.3	14.6	13.1	15.4	20.4	10.4
17	12.3	12.2	11.8	11.7	10.7	10.2	10.3	11.8	15.2	17.4	18.2	19.0	19.8	20.1	20.4	20.4	19.6	18.3	17.2	16.6	16.3	16.1	16.1	15.9	15.7	20.4	10.2
18	14.9	14.2	13.2	12.8	11.6	11.3	11.6	12.6	15.9	17.7	19.2	20.8	21.8	21.8	21.8	21.6	20.7	19.4	18.6	17.6	16.0	15.8	15.2	15.8	16.7	21.8	11.3
19	15.8	15.1	15.7	13.7	12.5	13.1	12.6	14.1	17.0	18.3	19.9	21.4	22.9	23.7	23.5	23.3	22.8	21.2	20.1	19.2	17.8	17.0	17.9	15.9	18.1	23.7	12.5
20	15.5	15.4	14.7	13.6	12.9	12.9	12.7	13.0	16.9	18.9	20.0	20.6	21.7	21.9	22.2	22.0	21.2	20.1	19.1	18.4	18.0	16.7	16.0	16.5	17.5	22.2	12.7
21	17.5	15.2	15.1	14.7	14.2	13.5	12.8	13.6	16.9	19.8	21.7	22.5	22.8	23.5	23.4	23.2	22.5	21.3	20.4	19.3	17.2	16.6	17.0	17.3	18.4	23.5	12.8
22	16.3	15.8	17.5	17.0	16.0	15.5	14.9	16.1	17.9	19.0	20.7	22.2	23.5	24.8	25.4	25.3	24.6	22.5	20.6	19.9	18.8	18.0	17.8	17.5	19.5	25.4	14.9
23	17.2	16.6	16.3	16.1	16.1	16.2	16.0	17.1	18.8	20.4	22.0	24.2	25.4	26.4	26.6	26.3	25.6	24.4	22.3	21.7	21.2	20.0	19.0	18.0	20.6	26.6	16.0
24	18.9	19.3	17.3	16.3	16.1	16.2	16.0	17.8	20.5	22.4	23.3	24.1	25.7	26.0	25.4	24.5	23.2	22.4	21.9	21.5	20.1	18.9	18.3	18.5	20.6	26.0	16.0
25	18.4	18.7	18.4	18.4	16.2	15.9	14.8	15.6	18.7	21.2	21.7	22.2	22.8	23.2	23.2	22.8	22.0	20.9	20.3	19.7	19.0	17.1	17.4	17.4	19.4	23.2	14.8
26	16.7	16.8	16.1	16.8	17.7	17.1	14.8	16.0	18.4	20.0	21.2	22.6	23.9	24.5	24.9	24.5	24.0	22.6	21.5	19.9	18.3	18.5	18.1	17.7	19.7	24.9	14.8
27	17.9	17.4	16.6	16.0	15.6	15.2	14.8	16.0	18.2	20.4	21.9	23.3	24.3	25.1	25.2	24.4	23.5	22.4	21.0	20.2	19.8	19.2	19.0	18.8	19.8	25.2	14.8
28	18.2	17.8	17.4	16.7	16.2	15.8	15.7	16.0	16.4	17.7	18.5	19.0	20.0	20.2	19.8	19.5	19.0	18.6	17.9	17.1	16.6	16.4	16.3	16.1	17.6	20.2	15.7
29	15.8	15.3	14.9	14.3	13.5	12.9	12.9	14.0	15.9	16.5	17.6	18.6	19.0	18.5	16.4	15.1	13.8	12.7	12.3	12.0	11.6	11.2	10.4	9.5	14.4	19.0	9.5
30	9.4	8.9	8.6	8.5	7.8	7.9	7.6	8.6	9.8	11.0	11.4	12.4	12.9	13.5	13.8	13.4	13.0	12.2	11.6	11.5	10.9	11.0	11.0	10.9	10.7	13.8	7.6
31	10.6	10.1	7.4	7.5	7.1	6.8	6.3	7.9	11.5	13.8	14.4	15.1	16.0	16.3	16.6	16.3	15.6	14.4	13.5	13.0	12.7	12.5	12.6	11.3	12.0	16.6	6.3
Avg	15.9	15.4	14.9	14.3	13.8	13.4	13.3	14.4	16.8	18.4	19.6	20.7	21.6	22.1	22.2	22.0	21.3	20.1	19.1	18.3	17.4	16.8	16.4	15.9	17.7	--	--
Max	21.4	22.1	20.6	18.8	17.8	17.1	17.3	18.5	21.8	23.3	24.4	25.5	26.9	27.8	27.6	27.7	26.1	25.1	24.6	23.0	21.9	21.3	21.1	21.0	--	27.8	--
Min	8.3	7.7	7.4	7.1	6.9	6.2	6.0	7.4	6.8	6.9	7.2	7.5	8.6	10.7	11.8	12.2	12.3	11.5	10.9	9.6	8.9	8.4	8.0	8.1	--	--	6.0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Nov 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	10.2	9.6	9.6	8.5	9.1	8.5	10.4	13.2	15.8	16.9	18.2	19.7	20.3	21.3	21.0	19.1	17.7	16.3	14.8	15.6	14.7	14.7	15.3	14.7	21.3	8.5
2	14.3	13.3	13.0	13.8	13.6	13.1	13.4	14.1	16.1	18.2	20.1	21.2	22.2	22.7	23.1	22.8	22.3	20.9	19.0	18.1	17.7	18.3	18.0	16.6	17.7	23.1	13.0
3	15.5	15.6	15.2	13.5	13.7	13.0	12.9	13.6	14.8	16.5	17.3	19.4	19.7	20.2	19.8	19.8	19.1	18.1	17.2	16.2	15.1	14.2	13.1	13.3	16.1	20.2	12.9
4	13.0	12.6	11.8	11.6	12.1	11.5	11.4	12.3	14.5	16.6	17.7	18.5	18.9	19.3	19.2	18.5	17.9	17.5	16.8	16.0	15.7	15.5	12.8	10.1	15.1	19.3	10.1
5	9.3	9.0	8.2	8.4	9.1	9.5	10.3	10.2	10.5	11.8	12.6	13.3	13.8	13.5	14.0	14.3	14.5	13.5	13.0	12.4	11.4	10.9	10.4	9.7	11.4	14.5	8.2
6	8.7	7.7	8.1	8.2	7.9	7.9	7.2	8.7	10.2	11.6	12.9	14.4	16.2	17.8	18.6	18.6	17.5	15.8	14.6	14.1	14.6	14.2	13.6	13.2	12.6	18.6	7.2
7	12.7	12.4	12.0	11.8	11.6	11.1	11.0	11.5	13.2	15.4	17.4	18.7	19.6	20.1	20.7	20.5	19.6	17.9	15.9	15.5	14.6	14.4	13.8	13.5	15.2	20.7	11.0
8	13.5	13.3	13.1	13.1	13.3	13.2	12.9	13.5	15.4	16.0	18.8	20.4	21.5	21.5	21.6	21.5	20.5	19.1	18.5	17.6	15.9	15.7	15.3	14.5	16.7	21.6	12.9
9	14.8	14.2	14.3	13.0	11.6	11.8	11.3	12.0	15.6	18.8	20.7	21.2	21.4	21.8	21.9	21.9	21.0	19.7	19.0	17.0	15.1	14.9	15.1	15.8	16.8	21.9	11.3
10	14.7	14.0	13.3	13.0	12.9	12.6	12.9	13.4	14.0	17.2	18.8	20.5	22.1	22.6	23.0	22.5	21.3	20.5	19.7	17.5	16.3	16.1	16.5	15.9	17.1	23.0	12.6
11	15.3	15.3	14.8	14.3	14.1	14.2	14.5	16.1	18.3	19.5	20.7	22.4	24.0	24.7	25.2	24.8	23.5	22.0	20.1	18.9	19.4	18.4	19.3	19.0	19.1	25.2	14.1
12	18.8	18.5	17.4	17.0	16.6	17.0	16.9	17.2	18.7	21.1	22.0	23.1	23.6	24.1	23.3	22.8	22.0	20.6	19.3	17.7	16.9	16.0	15.3	14.8	19.2	24.1	14.8
13	14.4	13.7	13.2	12.7	12.1	11.4	10.9	11.3	13.1	14.6	15.6	16.9	17.8	18.3	18.3	17.8	16.6	15.3	14.4	13.9	13.4	13.1	12.9	12.4	14.3	18.3	10.9
14	12.1	11.7	11.2	11.0	10.9	11.0	11.0	11.5	12.8	14.5	17.1	19.3	20.5	20.5	21.1	20.9	19.6	18.3	17.2	15.8	14.7	14.8	14.1	14.1	15.2	21.1	10.9
15	13.7	13.6	13.5	13.4	13.2	12.9	12.7	13.7	15.6	16.4	16.9	18.2	18.3	18.8	18.6	18.5	17.1	17.0	16.9	14.3	14.4	13.7	12.9	12.4	15.3	18.8	12.4
16	12.0	11.7	11.7	11.6	11.3	10.9	10.5	10.0	9.9	10.1	10.8	11.2	12.4	12.9	13.7	13.9	13.4	12.6	12.2	11.9	11.9	11.8	11.2	11.2	11.7	13.9	9.9
17	11.3	11.0	10.8	10.7	9.8	9.8	10.1	11.0	11.7	12.8	13.7	14.9	15.5	16.3	16.8	16.7	16.3	15.2	13.4	12.3	12.7	12.5	13.0	13.0	13.0	16.8	9.8
18	12.2	11.2	10.6	10.7	10.8	10.9	11.0	12.1	14.2	14.8	16.8	18.4	19.7	19.5	19.4	19.2	18.3	17.4	16.7	14.7	13.7	14.7	15.4	14.5	14.9	19.7	10.6
19	14.5	12.9	13.0	12.5	11.4	10.7	10.1	10.2	12.3	15.3	17.4	18.6	19.0	18.6	18.3	18.0	17.1	16.0	15.1	14.9	14.7	13.3	12.7	12.0	14.5	19.0	10.1
20	11.7	11.2	11.5	10.9	11.7	11.7	11.2	11.8	12.5	14.0	15.6	16.1	15.9	15.1	14.8	14.3	14.0	13.8	13.6	13.5	13.4	13.2	12.9	12.9	13.2	16.1	10.9
21	12.7	12.7	12.3	12.5	12.5	12.0	12.0	11.9	12.6	13.5	14.6	15.1	16.0	16.1	15.4	15.0	14.6	14.2	13.9	13.0	12.2	10.9	10.5	10.6	13.2	16.1	10.5
22	10.7	10.4	10.6	10.9	11.5	12.9	12.2	11.7	11.3	9.7	8.1	7.5	7.4	7.2	6.9	6.9	7.5	7.5	7.4	7.4	7.6	7.3	7.3	6.6	8.9	12.9	6.6
23	6.6	6.2	5.5	5.0	4.3	3.9	3.8	3.5	3.2	3.4	3.2	2.8	2.0	2.8	2.9	3.9	2.9	3.0	2.9	3.0	2.8	2.6	2.8	2.7	3.6	6.6	2.0
24	2.4	2.3	2.1	1.8	1.6	1.3	1.3	1.1	1.0	1.5	2.2	2.8	2.5	2.7	3.6	4.3	3.8	3.0	2.9	2.8	2.8	2.5	2.3	2.2	2.4	4.3	1.0
25	2.1	1.9	1.7	1.4	1.3	1.7	1.2	1.3	3.6	5.8	7.8	9.4	10.0	10.0	10.4	10.7	10.0	8.6	7.5	7.3	6.7	6.1	6.3	6.4	5.8	10.7	1.2
26	6.4	6.7	6.7	6.7	6.7	6.3	5.6	5.6	6.8	8.2	9.5	10.2	11.4	12.2	12.0	12.5	11.5	9.7	8.8	8.8	8.5	8.0	7.2	6.7	8.4	12.5	5.6
27	6.8	6.6	6.7	6.3	6.2	6.1	6.2	6.1	6.9	8.3	8.9	9.3	9.8	10.1	10.2	10.5	9.6	8.9	8.0	7.3	6.9	6.9	6.3	6.0	7.7	10.5	6.0
28	5.8	5.4	5.0	5.5	5.5	5.2	5.0	5.1	6.5	8.0	9.6	11.1	12.3	13.3	14.4	14.3	13.0	11.1	10.3	10.4	10.4	10.0	10.1	9.7	9.1	14.4	5.0
29	9.5	9.3	9.0	8.6	8.5	8.2	8.4	8.7	10.2	11.9	14.2	15.6	16.3	16.9	16.9	17.0	16.0	14.1	12.9	12.5	11.6	11.5	10.4	9.9	12.0	17.0	8.2
30	10.2	9.8	9.8	10.5	10.5	10.6	10.5	10.6	11.5	12.9	13.6	14.5	15.2	16.1	16.0	15.4	14.4	12.7	11.9	11.5	11.2	11.1	11.2	11.4	12.2	16.1	9.8
Avg	11.2	10.8	10.5	10.3	10.2	10.0	9.9	10.3	11.7	13.1	14.4	15.4	16.2	16.5	16.7	16.6	15.8	14.7	13.8	13.0	12.6	12.2	11.9	11.5	12.9	--	--
Max	18.8	18.5	17.4	17.0	16.6	17.0	16.9	17.2	18.7	21.1	22.0	23.1	24.0	24.7	25.2	24.8	23.5	22.0	20.1	18.9	19.4	18.4	19.3	19.0	--	25.2	--
Min	2.1	1.9	1.7	1.4	1.3	1.3	1.2	1.1	1.0	1.5	2.2	2.8	2.0	2.7	2.9	3.9	2.9	3.0	2.9	2.8	2.8	2.5	2.3	2.2	--	--	1.0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Dec 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	10.9	9.0	8.9	8.6	7.8	7.6	7.5	7.4	9.7	12.7	14.0	15.1	16.7	17.3	16.7	15.7	14.9	12.7	12.0	10.9	10.5	10.2	9.9	9.5	11.5	17.3	7.4
2	8.4	7.8	7.1	6.3	6.1	6.5	6.5	6.3	8.9	12.0	13.8	14.0	14.6	14.8	14.8	14.7	13.7	12.3	11.2	10.6	10.1	9.7	9.4	9.6	10.4	14.8	6.1
3	9.9	10.7	10.2	9.3	9.0	9.0	8.8	9.3	10.1	12.1	13.5	14.3	15.1	15.5	15.5	15.3	14.6	13.6	13.2	13.6	13.2	12.7	12.3	12.2	12.2	15.5	8.8
4	11.8	11.6	11.0	11.0	10.3	9.4	9.2	9.1	9.3	9.9	9.8	9.2	9.6	9.0	6.9	5.8	6.0	5.8	5.9	5.1	4.8	4.6	4.4	4.2	8.1	11.8	4.2
5	3.8	3.7	3.5	3.6	3.4	3.2	2.8	2.5	2.9	3.2	4.3	4.4	4.9	5.1	5.1	4.7	3.8	3.0	2.5	2.1	1.6	1.3	1.1	0.8	3.2	5.1	0.8
6	0.4	0.4	0.4	0.3	-0.4	-2.3	-1.7	-2.3	-0.4	1.9	3.3	3.8	4.9	5.0	5.5	5.3	4.6	3.3	2.4	1.3	0.5	0.6	0.4	1.3	1.6	5.5	-2.3
7	0.6	0.1	0.3	-0.6	-0.4	-0.4	-0.7	-0.5	1.0	3.4	4.6	5.5	6.2	6.2	6.2	5.9	4.9	3.9	3.9	4.2	4.8	4.8	4.6	4.3	3.0	6.2	-0.7
8	4.1	3.5	3.4	3.3	3.2	3.2	3.2	3.0	2.9	4.0	4.2	4.7	4.9	4.8	5.4	5.5	4.9	4.4	4.2	3.8	3.4	3.0	2.7	2.5	3.8	5.5	2.5
9	1.9	1.0	0.7	-0.1	-0.8	-1.1	-1.6	-1.7	-0.4	2.3	3.3	3.9	4.8	5.6	5.5	5.3	4.3	2.6	1.7	1.1	0.6	0.5	0.5	0.5	1.7	5.6	-1.7
10	0.4	0.5	0.5	0.5	0.6	0.5	0.4	0.8	1.2	2.2	3.3	5.0	6.3	7.0	7.5	7.3	7.2	6.5	6.1	6.0	5.8	5.8	5.8	5.4	3.9	7.5	0.4
11	5.6	5.6	5.4	5.4	5.3	5.3	5.2	5.4	6.3	7.5	8.7	10.6	11.8	13.0	13.5	13.2	12.2	10.9	10.6	11.1	10.5	10.3	10.1	9.9	8.9	13.5	5.2
12	9.6	9.2	9.2	9.0	9.1	8.9	8.7	8.6	9.0	9.9	11.3	13.5	14.8	15.1	14.2	13.1	11.6	10.5	9.7	8.6	7.4	7.3	6.9	7.7	10.1	15.1	6.9
13	6.0	6.1	5.1	4.6	4.5	3.9	3.7	4.5	4.8	7.6	8.9	9.2	9.7	10.3	10.3	10.3	9.3	8.0	7.5	6.3	6.8	5.4	4.1	4.6	6.7	10.3	3.7
14	4.6	4.0	4.2	3.7	6.1	5.9	5.7	5.7	6.2	7.0	8.1	9.7	11.0	12.1	12.9	12.6	11.5	10.0	9.1	8.4	7.9	7.2	7.2	6.5	7.8	12.9	3.7
15	6.3	5.7	5.7	5.3	4.4	4.4	5.0	6.1	7.8	9.9	11.7	12.7	13.9	15.4	16.0	15.7	14.8	13.4	12.7	12.2	11.4	11.6	10.6	10.3	10.1	16.0	4.4
16	10.4	10.3	9.3	9.4	9.4	9.3	9.9	10.0	11.0	12.9	13.8	14.7	16.1	17.4	17.9	17.6	16.4	14.5	13.5	13.7	14.0	13.5	13.3	13.3	13.0	17.9	9.3
17	13.3	13.6	13.7	13.7	13.1	12.4	11.2	11.7	13.8	15.1	15.7	16.4	17.6	18.5	19.0	18.8	17.7	16.3	15.3	15.0	14.7	14.6	14.5	14.3	15.0	19.0	11.2
18	14.1	13.8	13.7	13.3	13.0	12.5	12.1	11.9	12.3	12.4	14.5	15.0	15.3	16.5	18.8	18.2	17.2	16.0	15.2	15.0	13.9	13.9	13.7	13.8	14.4	18.8	11.9
19	14.3	13.7	12.5	11.6	11.3	11.0	10.6	10.4	11.1	11.8	12.8	13.3	14.1	14.4	14.6	14.4	13.3	11.8	10.3	9.6	9.0	8.3	7.9	7.7	11.7	14.6	7.7
20	7.5	7.4	7.2	7.1	7.6	5.7	4.0	3.1	3.3	4.1	5.2	5.1	6.1	5.7	5.6	5.2	4.6	4.7	4.5	4.3	4.1	4.1	4.1	4.2	5.2	7.6	3.1
21	3.7	4.0	4.1	4.0	3.8	3.6	3.3	2.8	2.4	2.3	2.3	2.3	2.7	2.8	3.2	3.8	3.9	3.6	3.8	3.9	4.1	3.7	3.9	3.0	3.4	4.1	2.3
22	2.7	2.6	2.0	2.1	1.6	1.7	1.2	1.1	2.7	5.6	7.4	8.3	8.0	8.5	8.5	8.2	7.4	6.3	5.9	4.8	4.0	4.0	3.9	4.0	4.7	8.5	1.1
23	4.2	3.5	3.9	3.8	3.8	4.2	4.2	4.6	5.4	6.7	7.7	8.9	10.2	11.0	11.9	12.0	11.0	9.3	8.3	8.2	8.6	8.4	8.1	8.2	7.3	12.0	3.5
24	7.9	7.3	7.1	6.9	6.7	6.5	6.1	6.3	7.3	8.6	9.8	10.7	11.5	12.3	12.9	12.8	12.6	11.0	9.5	9.3	8.5	8.3	8.0	9.4	9.1	12.9	6.1
25	9.8	9.9	9.7	9.0	8.0	7.3	7.5	6.3	6.4	7.5	8.9	10.3	11.7	12.6	13.2	13.3	12.7	10.8	9.7	9.3	8.4	7.5	7.3	7.4	9.3	13.3	6.3
26	7.2	6.8	6.4	6.2	5.8	5.6	5.6	5.5	6.4	7.5	8.1	9.2	10.6	11.4	12.1	12.2	11.7	10.2	10.3	9.9	9.3	9.0	9.3	8.7	8.5	12.2	5.5
27	8.4	8.1	7.8	7.1	7.4	7.1	6.7	6.6	7.6	9.0	10.6	11.6	12.3	12.9	13.8	13.2	12.4	11.2	10.3	9.1	8.9	9.0	8.3	7.7	9.5	13.8	6.6
28	7.5	7.8	7.4	7.0	6.5	6.7	6.4	6.3	6.9	8.5	9.4	10.9	12.3	12.9	13.0	12.7	11.7	10.7	9.8	8.5	8.4	7.9	7.9	7.1	8.9	13.0	6.3
29	7.2	6.3	6.1	4.3	4.4	3.8	4.1	4.8	7.0	9.2	9.7	10.4	11.5	12.2	12.8	13.0	12.2	10.7	10.2	9.6	8.9	8.5	7.8	7.9	8.4	13.0	3.8
30	7.2	7.0	6.7	5.4	4.3	4.1	3.3	3.6	5.4	7.8	10.0	11.5	13.3	13.7	12.8	12.8	11.9	11.2	9.6	8.5	8.7	8.7	7.7	7.9	8.5	13.7	3.3
31	7.6	7.3	7.3	8.2	7.5	7.2	7.2	7.1	8.1	9.3	10.8	12.1	13.1	14.4	15.4	15.5	14.3	11.5	9.8	9.6	9.8	9.1	7.9	9.2	10.0	15.5	7.1
Avg	7.0	6.7	6.5	6.1	5.9	5.6	5.4	5.4	6.3	7.9	9.0	9.9	10.8	11.4	11.7	11.4	10.6	9.4	8.7	8.2	7.8	7.5	7.2	7.2	8.1	--	--
Max	14.3	13.8	13.7	13.7	13.1	12.5	12.1	11.9	13.8	15.1	15.7	16.4	17.6	18.5	19.0	18.8	17.7	16.3	15.3	15.0	14.7	14.6	14.5	14.3	--	19.0	--
Min	0.4	0.1	0.3	-0.6	-0.8	-2.3	-1.7	-2.3	-0.4	1.9	2.3	2.3	2.7	2.8	3.2	3.8	3.8	2.6	1.7	1.1	0.5	0.5	0.4	0.5	--	--	-2.3

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Oct 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	40	258	488	683	821	891	888	822	690	507	287	65	0	0	0	0	0	0	268	891	0
2	0	0	0	0	0	0	36	248	476	669	802	871	871	807	675	495	278	61	0	0	0	0	0	0	262	871	0
3	0	0	0	0	0	0	37	254	489	678	812	876	876	797	666	487	272	57	0	0	0	0	0	0	263	876	0
4	0	0	0	0	0	0	32	238	464	653	792	860	858	792	661	480	262	54	0	0	0	0	0	0	256	860	0
5	0	0	0	0	0	0	37	262	499	701	842	911	902	829	690	502	279	53	0	0	0	0	0	0	271	911	0
6	0	0	0	0	0	0	35	256	489	686	822	891	889	817	675	489	267	47	0	0	0	0	0	0	265	891	0
7	0	0	0	0	0	0	34	252	468	687	781	830	840	767	518	451	124	38	0	0	0	0	0	0	241	840	0
8	0	0	0	0	0	0	27	228	455	647	782	850	849	781	638	464	249	41	0	0	0	0	0	0	250	850	0
9	0	0	0	0	0	0	29	233	454	647	789	851	788	778	598	447	162	33	0	0	0	0	0	0	242	851	0
10	0	0	0	0	0	0	1	9	22	59	173	316	552	626	570	468	250	36	0	0	0	0	0	0	128	626	0
11	0	0	0	0	0	0	26	232	460	650	784	854	850	779	641	458	240	34	0	0	0	0	0	0	250	854	0
12	0	0	0	0	0	0	24	225	451	643	780	844	841	772	631	447	231	31	0	0	0	0	0	0	247	844	0
13	0	0	0	0	0	0	20	212	443	633	767	838	831	764	628	446	230	30	0	0	0	0	0	0	243	838	0
14	0	0	0	0	0	0	22	213	435	626	768	832	828	764	629	443	224	28	0	0	0	0	0	0	242	832	0
15	0	0	0	0	0	0	20	210	434	626	763	828	823	756	620	435	219	26	0	0	0	0	0	0	240	828	0
16	0	0	0	0	0	0	20	216	444	635	770	836	833	759	621	435	218	24	0	0	0	0	0	0	242	836	0
17	0	0	0	0	0	0	20	215	443	631	765	828	824	754	615	428	212	22	0	0	0	0	0	0	240	828	0
18	0	0	0	0	0	0	17	204	431	625	767	834	827	756	613	427	210	21	0	0	0	0	0	0	239	834	0
19	0	0	0	0	0	0	19	214	443	634	769	834	825	748	611	422	203	18	0	0	0	0	0	0	239	834	0
20	0	0	0	0	0	0	16	200	423	616	751	818	813	742	602	418	202	16	0	0	0	0	0	0	234	818	0
21	0	0	0	0	0	0	15	192	418	606	739	804	797	725	588	406	188	15	0	0	0	0	0	0	229	804	0
22	0	0	0	0	0	0	13	192	419	608	742	807	800	728	588	403	181	13	0	0	0	0	0	0	229	807	0
23	0	0	0	0	0	0	13	185	405	592	724	786	780	708	566	383	175	18	0	0	0	0	0	0	222	786	0
24	0	0	0	0	0	0	11	188	376	531	579	610	762	542	466	273	83	16	0	0	0	0	0	0	185	762	0
25	0	0	0	0	0	0	10	176	395	580	716	783	779	707	571	387	161	6	0	0	0	0	0	0	220	783	0
26	0	0	0	0	0	0	10	178	401	587	720	777	777	706	560	261	158	11	0	0	0	0	0	0	214	777	0
27	0	0	0	0	0	0	7	168	392	578	712	781	770	693	536	372	153	5	0	0	0	0	0	0	215	781	0
28	0	0	0	0	0	0	10	95	197	387	639	777	751	537	301	180	75	8	0	0	0	0	0	0	165	777	0
29	0	0	0	0	0	0	6	166	386	570	700	765	759	551	144	186	68	15	0	0	0	0	0	0	180	765	0
30	0	0	0	0	0	0	4	98	292	526	587	765	766	691	546	365	143	5	0	0	0	0	0	0	200	766	0
31	0	0	0	0	0	0	7	163	384	569	697	764	759	688	549	364	142	5	0	0	0	0	0	0	212	764	0
Avg	0	0	0	0	0	0	20	199	412	599	731	803	810	732	581	411	198	28	0	0	0	0	0	0	230	--	--
Max	0	0	0	0	0	0	40	262	499	701	842	911	902	829	690	507	287	65	0	0	0	0	0	0	--	911	--
Min	0	0	0	0	0	0	1	9	22	59	173	316	552	537	144	180	68	5	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Nov 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	6	163	385	573	705	772	768	690	550	360	140	5	0	0	0	0	0	0	213	772	0
2	0	0	0	0	0	0	5	162	385	574	708	774	766	685	488	276	148	7	0	0	0	0	0	0	207	774	0
3	0	0	0	0	0	0	2	78	219	473	491	691	601	655	387	344	130	4	0	0	0	0	0	0	170	691	0
4	0	0	0	0	0	0	3	139	353	540	670	736	612	654	434	242	67	3	0	0	0	0	0	0	186	736	0
5	0	0	0	0	0	0	1	106	270	453	748	834	378	266	373	171	170	8	0	0	0	0	0	0	157	834	0
6	0	0	0	0	0	0	3	150	374	563	695	760	752	675	538	351	129	3	0	0	0	0	0	0	208	760	0
7	0	0	0	0	0	0	2	145	368	557	691	760	755	680	537	350	127	2	0	0	0	0	0	0	207	760	0
8	0	0	0	0	0	0	2	138	346	377	658	717	708	637	502	329	110	3	0	0	0	0	0	0	189	717	0
9	0	0	0	0	0	0	1	126	339	519	646	708	706	634	502	323	109	2	0	0	0	0	0	0	192	708	0
10	0	0	0	0	0	0	1	81	138	380	398	557	602	411	484	222	68	4	0	0	0	0	0	0	139	602	0
11	0	0	0	0	0	0	0	116	324	502	630	696	696	623	490	316	105	2	0	0	0	0	0	0	188	696	0
12	0	0	0	0	0	0	0	117	330	518	606	631	667	544	281	233	84	1	0	0	0	0	0	0	167	667	0
13	0	0	0	0	0	0	0	82	319	498	629	692	688	632	488	312	102	3	0	0	0	0	0	0	185	692	0
14	0	0	0	0	0	0	0	104	315	493	621	688	682	613	485	309	100	2	0	0	0	0	0	0	184	688	0
15	0	0	0	0	0	0	0	20	91	261	300	475	363	346	213	177	35	2	0	2	0	0	0	0	95	475	0
16	0	0	0	0	0	0	0	10	34	89	193	269	349	406	386	281	101	4	0	0	0	0	0	0	88	406	0
17	0	0	0	0	0	0	0	54	157	383	535	678	571	626	460	298	89	2	0	0	0	0	0	0	160	678	0
18	0	0	0	0	0	0	0	107	150	267	588	484	696	347	393	302	87	2	0	0	0	0	0	0	143	696	0
19	0	0	0	0	0	0	1	53	261	392	557	672	668	584	460	286	89	1	0	0	0	0	0	0	168	672	0
20	0	0	0	0	0	0	0	44	116	295	426	516	540	274	264	119	23	2	0	0	0	0	0	0	109	540	0
21	0	0	0	0	0	0	0	41	110	151	298	400	548	338	195	130	51	2	0	0	0	0	0	0	94	548	0
22	0	0	0	0	1	2	0	2	15	23	51	122	71	76	83	65	40	0	0	0	0	0	0	0	23	122	0
23	0	0	0	0	0	0	0	4	45	48	45	28	45	61	128	281	57	3	0	0	0	0	0	0	31	281	0
24	0	0	0	0	0	0	0	9	64	160	239	223	170	204	260	210	53	1	0	0	0	0	0	0	66	260	0
25	0	0	0	0	0	0	0	82	283	461	589	655	656	595	465	291	76	1	0	0	0	0	0	0	173	656	0
26	0	0	0	0	0	0	0	80	283	463	592	659	658	593	466	294	78	1	0	0	0	0	0	0	174	659	0
27	0	0	0	0	0	0	0	37	185	319	332	355	335	316	268	257	49	1	0	0	0	0	0	0	102	355	0
28	0	0	0	0	0	0	0	77	281	462	591	657	655	589	462	288	76	1	0	0	0	0	0	0	172	657	0
29	0	0	0	0	0	0	0	60	262	419	584	649	654	579	459	278	79	1	0	0	0	0	0	0	168	654	0
30	0	0	0	0	0	0	0	31	170	307	382	356	398	356	269	173	49	1	0	0	0	0	0	0	104	398	0
Avg	0	0	0	0	0	0	1	81	232	384	507	574	558	490	392	262	87	2	0	0	0	0	0	0	149	--	--
Max	0	0	0	0	1	2	6	163	385	574	748	834	768	690	550	360	170	8	0	2	0	0	0	0	--	834	--
Min	0	0	0	0	0	0	0	2	15	23	45	28	45	61	83	65	23	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Dec 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	0	55	263	427	580	643	674	507	317	221	80	2	0	0	0	0	0	0	157	674	0
2	0	0	0	0	0	0	0	54	257	441	568	633	619	455	357	304	74	2	0	0	0	0	0	0	157	633	0
3	0	0	0	0	0	0	0	44	239	418	539	641	644	573	460	289	84	1	0	0	0	0	0	0	164	644	0
4	0	0	0	0	0	0	0	48	168	331	169	70	141	96	29	19	23	2	0	0	0	0	0	0	46	331	0
5	0	0	0	0	0	0	0	17	162	316	538	490	630	523	464	299	80	1	0	0	0	0	0	0	147	630	0
6	0	0	0	0	0	0	0	55	254	438	570	642	646	584	459	288	86	1	0	0	0	0	0	0	168	646	0
7	0	0	0	0	0	0	0	54	249	434	567	638	643	582	458	286	87	1	0	0	0	0	0	0	167	643	0
8	0	0	0	0	0	0	0	5	127	331	291	297	226	202	354	206	53	3	0	0	0	0	0	0	87	354	0
9	0	0	0	0	0	0	0	51	251	439	571	646	655	594	471	300	89	1	0	0	0	0	0	0	169	655	0
10	0	0	0	0	0	0	0	15	78	286	352	431	436	394	348	221	94	1	0	0	0	0	0	0	111	436	0
11	0	0	0	0	0	0	0	46	233	416	547	617	623	563	446	281	87	1	0	0	0	0	0	0	161	623	0
12	0	0	0	0	0	0	0	41	226	406	537	607	661	595	476	135	33	1	0	0	0	0	0	0	155	661	0
13	0	0	0	0	0	0	0	38	218	393	531	607	617	560	440	274	86	1	0	0	0	0	0	0	157	617	0
14	0	0	0	0	0	0	0	45	236	421	559	632	639	583	465	294	94	1	0	0	0	0	0	0	165	639	0
15	0	0	0	0	0	0	0	43	231	414	548	621	629	571	453	285	91	0	0	0	0	0	0	0	162	629	0
16	0	0	0	0	0	0	0	40	218	411	542	596	599	517	369	200	61	1	0	0	0	0	0	0	148	599	0
17	0	0	0	0	0	0	0	43	228	414	554	632	617	568	458	281	90	1	0	0	0	0	0	0	162	632	0
18	0	0	0	0	0	0	0	10	115	179	414	456	336	449	474	192	50	1	0	0	0	0	0	0	112	474	0
19	0	0	0	0	0	0	0	35	217	400	536	614	620	577	436	272	93	4	0	0	0	0	0	0	159	620	0
20	0	0	0	0	0	0	0	7	55	158	230	254	398	69	85	65	19	4	0	0	0	0	0	0	56	398	0
21	0	0	0	0	0	0	0	1	12	41	65	117	203	122	166	133	76	2	0	0	0	0	0	0	39	203	0
22	0	0	0	0	0	0	0	31	209	397	540	617	627	568	377	287	101	2	0	0	0	0	0	0	157	627	0
23	0	0	0	0	0	0	0	35	220	409	550	628	640	585	465	298	105	2	0	0	0	0	0	0	164	640	0
24	0	0	0	0	0	0	0	34	219	405	545	623	634	577	460	296	102	1	0	0	0	0	0	0	162	634	0
25	0	0	0	0	0	0	0	34	224	416	556	633	646	591	474	304	108	1	0	0	0	0	0	0	166	646	0
26	0	0	0	0	0	0	0	31	217	407	550	631	645	592	475	307	113	2	0	0	0	0	0	0	166	645	0
27	0	0	0	0	0	0	0	29	211	399	542	625	638	585	470	307	115	2	0	0	0	0	0	0	163	638	0
28	0	0	0	0	0	0	0	30	187	362	493	559	524	483	372	195	84	4	0	0	0	0	0	0	137	559	0
29	0	0	0	0	0	0	0	25	203	390	532	613	630	578	467	303	115	2	0	0	0	0	0	0	161	630	0
30	0	0	0	0	0	0	0	27	207	400	545	627	640	588	475	308	119	3	0	0	0	0	0	0	164	640	0
31	0	0	0	0	0	0	0	27	206	397	540	622	638	587	472	305	116	2	0	0	0	0	0	0	163	638	0
Avg	0	0	0	0	0	0	0	34	198	371	490	550	565	497	403	250	84	2	0	0	0	0	0	0	144	--	--
Max	0	0	0	0	0	0	0	55	263	441	580	646	674	595	476	308	119	4	0	0	0	0	0	0	--	674	--
Min	0	0	0	0	0	0	0	1	12	41	65	70	141	69	29	19	19	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, RH_Percent"
Month: Oct 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	17	20	20	21	21	22	22	21	17	14	13	14	14	15	14	15	16	16	17	18	20	21	23	23	18	23	13
2	25	25	28	29	31	35	34	28	28	30	27	26	24	23	22	22	23	24	27	26	27	30	30	31	27	35	22
3	31	31	33	36	39	42	45	42	38	28	20	22	23	26	25	24	22	20	21	21	21	22	29	35	29	45	20
4	42	43	50	51	55	54	53	42	34	29	25	22	22	22	22	20	21	18	16	13	11	16	15	14	30	55	11
5	15	15	16	17	19	19	16	15	15	13	11	10	9	8	8	8	9	10	12	14	16	16	16	16	13	19	8
6	16	15	17	17	19	19	18	17	17	16	13	12	10	8	8	7	8	10	12	13	14	14	13	15	14	19	7
7	14	14	15	15	16	17	17	16	15	12	10	10	10	10	10	10	10	9	10	11	12	13	13	14	13	17	9
8	13	12	13	16	17	18	18	16	15	12	11	11	14	16	14	12	12	13	14	14	15	16	18	20	15	20	11
9	18	18	18	21	25	26	27	25	22	21	19	18	16	15	15	14	19	26	31	35	37	45	53	58	26	58	14
10	65	74	79	80	79	79	76	92	95	96	96	92	74	60	54	47	47	48	54	61	64	61	63	60	71	96	47
11	56	65	61	65	68	72	70	59	43	36	26	25	25	29	29	27	27	29	31	36	39	38	41	41	43	72	25
12	40	40	41	40	40	40	35	29	26	24	24	23	21	18	18	20	21	24	26	27	32	34	34	34	30	41	18
13	36	36	36	38	38	39	38	34	32	33	33	33	29	25	23	20	18	19	21	26	27	28	29	31	30	39	18
14	32	36	41	45	46	50	51	45	38	36	32	29	27	22	21	21	19	18	19	20	23	24	27	27	31	51	18
15	26	28	29	30	30	33	32	28	22	20	18	19	18	19	19	18	18	20	21	23	23	23	22	25	23	33	18
16	26	27	29	31	32	33	35	33	30	28	25	17	14	14	15	16	19	20	22	23	24	25	27	29	25	35	14
17	30	30	29	28	29	30	29	25	20	17	17	17	16	16	15	15	17	19	21	21	22	22	22	23	22	30	15
18	24	25	27	28	30	31	29	28	23	18	13	11	10	11	12	13	14	16	17	18	20	15	15	14	19	31	10
19	14	15	14	17	19	17	18	16	13	12	10	9	7	6	6	7	8	9	9	10	11	12	11	12	12	19	6
20	12	12	13	15	16	16	16	16	12	10	10	10	10	10	10	10	10	11	13	14	15	17	17	16	13	17	10
21	14	17	17	17	18	19	20	18	15	12	11	9	10	9	8	8	9	10	11	13	15	16	14	13	14	20	8
22	14	16	14	15	16	16	20	22	22	20	19	17	15	12	8	8	9	11	12	11	13	16	16	17	15	22	8
23	18	20	21	21	22	22	23	21	19	18	16	14	12	11	10	10	10	12	15	15	14	17	19	22	17	23	10
24	22	23	27	29	30	29	30	26	22	20	19	17	14	13	13	13	13	13	14	14	15	16	17	16	19	30	13
25	16	16	16	16	19	19	21	20	16	13	13	14	15	14	14	14	15	17	16	16	17	19	19	21	16	21	13
26	27	29	31	32	30	32	36	33	29	26	24	21	17	15	14	14	14	17	20	22	24	23	24	25	24	36	14
27	25	25	25	27	29	30	32	30	27	24	21	18	16	13	12	12	13	14	16	19	19	20	19	18	21	32	12
28	20	21	24	26	30	30	28	26	26	24	23	23	21	21	20	21	23	27	31	35	37	35	34	35	27	37	20
29	36	37	40	42	49	52	49	40	34	32	29	27	27	30	43	51	51	50	47	48	50	51	54	56	43	56	27
30	57	57	58	57	59	60	61	55	50	45	45	40	36	31	31	30	30	33	34	35	37	38	38	38	44	61	30
31	39	39	45	44	45	46	48	42	34	29	25	24	21	21	21	22	24	27	28	29	30	31	31	32	32	48	21
Avg	27	28	30	31	33	34	34	31	27	25	23	21	19	18	18	18	18	20	21	23	24	25	26	27	25	--	--
Max	65	74	79	80	79	79	76	92	95	96	96	92	74	60	54	51	51	50	54	61	64	61	63	60	--	96	--
Min	12	12	13	15	16	16	16	15	12	10	10	9	7	6	6	7	8	9	9	10	11	12	11	12	--	--	6

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, RH_Percent"
Month: Nov 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	32	34	35	35	39	37	38	31	26	22	21	19	16	15	14	15	18	21	23	24	22	21	20	18	25	39	14
2	20	21	22	20	21	21	20	19	16	14	11	10	9	9	9	9	9	10	12	14	14	14	16	27	15	27	9
3	31	31	36	43	49	62	62	58	54	47	45	33	32	32	33	30	29	30	30	31	33	35	38	37	39	62	29
4	37	38	39	39	40	43	45	41	38	39	38	34	31	31	32	34	35	35	36	38	38	36	52	80	40	80	31
5	86	85	86	84	80	77	66	67	67	64	58	55	54	55	53	52	49	52	52	54	44	33	31	29	60	86	29
6	26	21	15	13	13	12	13	11	9	9	8	8	7	5	3	4	6	7	8	11	13	13	14	14	11	26	3
7	15	16	17	18	17	18	16	16	15	12	8	6	6	5	6	6	8	10	11	13	16	18	20	23	13	23	5
8	25	27	28	28	28	27	27	26	24	24	21	19	17	18	18	18	20	24	27	29	31	32	33	34	25	34	17
9	34	34	33	34	38	38	39	35	28	23	18	17	18	18	18	17	19	22	23	26	29	29	29	27	27	39	17
10	29	31	33	33	33	33	32	31	30	24	22	20	19	18	18	18	19	20	21	25	27	28	27	29	26	33	18
11	30	30	31	32	32	32	31	28	25	24	22	21	20	19	17	17	19	22	25	25	19	20	18	18	24	32	17
12	17	15	16	17	18	19	20	20	18	16	15	17	18	20	22	24	26	29	30	35	37	38	38	39	24	39	15
13	41	44	48	52	55	58	60	58	53	48	45	43	42	40	40	41	43	46	49	51	52	53	54	55	49	60	40
14	56	58	59	60	60	60	60	57	53	49	42	35	30	30	26	27	32	36	39	43	45	45	45	43	45	60	26
15	44	44	44	46	47	47	47	49	51	49	48	41	40	38	40	42	53	52	50	69	66	69	76	82	51	82	38
16	86	88	87	87	88	90	91	93	94	91	85	78	68	60	53	51	52	55	56	57	57	57	59	61	73	94	51
17	60	62	64	66	70	73	72	68	64	63	59	52	46	42	40	35	40	47	51	54	51	51	49	49	55	73	35
18	52	56	57	56	55	55	54	49	43	42	38	36	32	35	33	33	36	41	45	50	52	48	48	51	46	57	32
19	52	54	55	57	60	62	64	62	53	45	40	34	34	36	36	35	34	35	43	46	45	49	50	53	47	64	34
20	55	56	58	59	58	59	61	58	55	48	43	42	42	43	46	49	46	48	50	51	52	52	52	52	51	61	42
21	52	53	54	54	55	56	56	56	54	51	48	45	43	40	43	46	47	49	50	63	70	85	90	92	56	92	40
22	95	96	95	93	88	77	84	90	95	96	97	97	98	98	98	98	98	99	99	99	99	99	99	99	95	99	77
23	99	99	99	95	94	95	94	95	95	94	94	94	95	93	93	89	89	88	90	92	93	93	92	91	93	99	88
24	92	91	90	89	91	94	92	91	92	90	88	86	88	88	85	80	81	82	81	79	79	80	81	81	86	94	79
25	80	81	81	84	85	83	85	83	75	69	60	53	47	54	55	50	51	55	58	56	59	61	60	60	66	85	47
26	59	57	56	55	55	56	61	65	61	57	52	50	43	39	38	31	30	35	37	37	40	42	45	47	48	65	30
27	46	46	44	45	45	44	43	44	42	37	36	34	32	32	32	30	31	32	35	37	38	38	42	43	39	46	30
28	43	44	46	43	42	42	43	44	40	37	35	33	32	30	27	28	31	34	37	36	37	39	39	40	38	46	27
29	42	43	44	46	46	47	45	44	40	38	36	34	35	33	32	31	33	38	41	42	46	47	51	52	41	52	31
30	50	51	52	50	50	50	50	50	47	44	44	42	41	39	39	42	45	51	52	52	52	51	50	50	48	52	39
Avg	49	50	51	51	52	52	52	51	49	46	43	40	38	37	37	36	38	40	42	45	45	46	47	49	45	--	--
Max	99	99	99	95	94	95	94	95	95	96	97	97	98	98	98	98	98	99	99	99	99	99	99	99	--	99	--
Min	15	15	15	13	13	12	13	11	9	9	8	6	6	5	3	4	6	7	8	11	13	13	14	14	--	--	3

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, RH_Percent"
Month: Dec 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	51	60	62	63	65	65	64	63	53	44	40	38	34	31	33	41	40	38	38	43	44	43	42	44	47	65	31
2	48	49	49	51	49	48	50	51	42	32	27	28	30	32	33	35	39	46	51	53	52	49	49	48	43	53	27
3	45	43	46	50	50	49	49	50	45	40	31	28	24	20	22	22	29	35	35	37	43	47	49	48	39	50	20
4	39	34	37	41	48	54	52	50	52	54	59	66	64	72	88	93	89	88	82	91	91	84	89	91	67	93	34
5	86	74	75	63	66	71	73	71	70	65	52	44	40	38	36	39	43	47	47	44	44	45	46	48	55	86	36
6	48	46	42	43	46	59	57	57	48	42	35	32	29	26	25	26	31	37	41	46	48	47	47	43	42	59	25
7	45	45	44	46	44	45	45	41	39	38	34	32	31	29	32	35	41	46	48	47	51	58	68	78	44	78	29
8	83	92	91	92	92	92	93	94	95	82	71	66	67	66	62	58	61	62	62	58	57	57	55	50	73	95	50
9	47	53	55	59	61	61	63	60	51	41	44	38	29	25	21	18	17	18	20	21	20	19	19	20	37	63	17
10	21	21	21	20	20	19	19	19	20	21	20	20	19	18	18	18	18	20	21	21	21	21	21	22	20	22	18
11	21	21	21	22	22	22	22	22	21	20	20	18	18	19	21	21	23	24	25	26	25	24	25	25	22	26	18
12	24	23	24	26	28	29	29	29	29	29	29	28	30	35	42	47	54	59	61	65	68	68	68	54	41	68	23
13	61	57	58	57	57	60	60	52	51	39	38	35	34	34	34	35	38	41	43	47	44	50	55	54	47	61	34
14	54	58	57	58	38	37	36	35	34	32	29	26	24	22	19	18	19	20	22	24	26	27	27	29	32	58	18
15	30	32	32	34	36	37	34	29	24	20	18	18	18	17	16	17	18	21	22	22	23	23	24	25	24	37	16
16	24	24	27	26	26	27	26	24	22	20	20	19	16	15	15	16	19	22	24	23	21	22	23	23	22	27	15
17	22	20	19	19	19	19	22	21	18	17	18	17	16	16	14	14	14	16	17	18	18	20	21	22	18	22	14
18	23	24	24	24	25	25	25	26	25	26	23	23	22	21	17	16	18	20	22	22	24	23	24	24	23	26	16
19	24	26	30	31	31	32	32	32	31	30	27	24	22	21	20	20	26	33	44	55	63	69	71	75	36	75	20
20	78	80	80	81	71	87	91	92	91	88	82	88	80	81	76	84	93	85	86	92	96	97	97	98	86	98	71
21	98	98	98	98	98	99	99	99	99	99	99	99	98	91	84	78	77	72	67	70	65	70	68	73	87	99	65
22	75	74	78	78	80	80	82	80	69	59	46	42	53	51	54	57	64	73	79	83	86	83	79	73	70	86	42
23	71	75	66	63	52	44	42	39	38	38	36	32	28	25	24	24	26	31	34	34	35	38	38	36	40	75	24
24	36	36	36	35	36	36	37	35	33	31	29	28	28	27	27	26	28	32	35	34	37	38	38	35	33	38	26
25	33	29	24	20	22	25	20	25	28	28	26	24	22	20	17	17	18	21	24	27	25	24	24	25	24	33	17
26	28	30	32	33	35	38	40	37	39	38	39	35	28	26	23	22	21	28	27	27	26	20	17	19	30	40	17
27	20	20	20	22	22	26	24	24	27	29	27	24	22	21	19	19	20	21	22	24	25	25	28	30	23	30	19
28	29	28	28	29	31	31	32	33	32	30	29	26	24	19	19	21	24	27	33	36	36	38	36	37	30	38	19
29	35	36	37	42	40	46	46	43	35	29	28	27	25	24	22	22	23	26	27	27	28	28	29	26	31	46	22
30	25	26	26	29	33	33	35	33	28	24	22	20	15	16	23	22	26	30	33	29	25	24	26	27	26	35	15
31	24	24	26	26	26	29	33	34	32	31	29	27	25	23	21	21	24	31	33	32	30	30	32	28	28	34	21
Avg	44	44	44	45	44	46	46	45	42	39	36	35	33	32	32	32	35	38	40	41	42	42	43	43	40	--	--
Max	98	98	98	98	98	99	99	99	99	99	99	99	98	91	88	93	93	88	86	92	96	97	97	98	--	99	--
Min	20	20	19	19	19	19	19	19	18	17	18	17	15	15	14	14	14	16	17	18	18	19	17	19	--	--	14

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Oct 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	0.095	0.06	0.008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.163	0.095	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	0	0	0	0	0	0.095	0.06	0.008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.163	--	--
Max	0	0	0	0	0	0	0	0.095	0.06	0.008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	0.095	--
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
"Component, Channel: Table100, Precip_Inches"
Month: Nov 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	0.016	0.016	0.016	0
5	0	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004	0.004	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	0.004	0	0	0.071	0	0	0	0	0.075	0.071	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	0.004	0.056	0.004	0.095	0.159	0.095	0
22	0.084	0.11	0	0.016	0.004	0	0.138	0.24	0.272	0.123	0.103	0.02	0.13	0.071	0.008	0.02	0	0.04	0.067	0.012	0	0	0.036	0.056	1.55	0.272	0
23	0.028	0.111	0.068	0.088	0.044	0.08	0.064	0.138	0.068	0.052	0.142	0.228	0.075	0.04	0	0	0	0	0	0.012	0.004	0	0	0	1.24	0.228	0
24	0	0	0	0	0.04	0.004	0	0.004	0.004	0	0	0	0	0.008	0	0	0	0	0	0	0	0	0	0	0.06	0.04	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	0.112	0.225	0.068	0.104	0.088	0.084	0.202	0.382	0.344	0.175	0.245	0.248	0.205	0.119	0.008	0.02	0.004	0.04	0.067	0.095	0.008	0.056	0.04	0.167	3.11	--	--
Max	0.084	0.111	0.068	0.088	0.044	0.08	0.138	0.24	0.272	0.123	0.142	0.228	0.13	0.071	0.008	0.02	0.004	0.04	0.067	0.071	0.004	0.056	0.036	0.095	--	0.272	--
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
"Component, Channel: Table100, Precip_Inches"
Month: Dec 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	0.004	0	0	0	0	0	0	0	0	0.004	0.004	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	0.004	0.016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.016	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	0.229	0.28	0.122	0	0	0	0	0	0.004	0	0	0.02	0	0	0	0.02	0.024	0.028	0.06	0.787	0.28	0
21	0.088	0.13	0.044	0.131	0.004	0	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.401	0.131	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	0.088	0.13	0.044	0.135	0.02	0.229	0.284	0.122	0	0	0	0	0	0.004	0	0.004	0.02	0	0	0	0.02	0.024	0.028	0.06	1.21	--	--
Max	0.088	0.13	0.044	0.131	0.016	0.229	0.28	0.122	0	0	0	0	0	0.004	0	0.004	0.02	0	0	0	0.02	0.024	0.028	0.06	--	0.28	--
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
"Component, Channel: Table100, BP_mmHg"
Month: Oct 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	653	653	653	654	654	654	654	654	654	653	653	653	652	652	652	652	653	653	653	653	653	654	652
2	653	653	653	653	653	653	653	653	654	654	654	654	653	652	652	652	652	651	651	652	652	652	652	651	652	654	651
3	651	651	651	651	651	651	651	651	652	652	652	651	651	650	649	649	649	649	649	649	649	650	650	650	650	652	649
4	650	650	650	650	650	651	651	652	652	653	653	653	653	652	652	652	652	652	652	653	653	654	654	654	652	654	650
5	654	654	654	655	655	655	655	656	656	657	657	656	656	656	655	655	655	655	656	656	656	656	656	656	656	657	654
6	655	656	656	656	656	656	656	657	657	657	657	657	656	656	656	655	655	655	655	655	655	655	655	655	656	657	655
7	655	655	655	655	655	655	655	655	655	655	655	655	654	654	654	653	653	653	653	653	653	653	653	652	654	655	652
8	652	652	652	652	652	652	652	652	652	652	652	652	651	651	650	650	650	650	649	649	649	650	650	649	651	652	649
9	649	649	649	649	649	649	649	649	649	649	649	649	648	648	647	647	647	647	647	648	648	648	648	648	648	649	647
10	648	648	648	647	648	648	648	649	650	651	651	651	651	651	652	652	652	652	651	652	652	652	652	652	650	652	647
11	652	652	652	652	652	652	652	652	653	653	653	653	652	652	652	652	652	652	652	652	652	652	652	652	652	653	652
12	652	652	652	652	652	652	652	653	653	653	653	653	652	652	651	651	651	651	651	652	652	652	652	652	652	653	651
13	652	652	652	652	652	652	652	653	653	653	653	653	652	652	652	652	652	652	652	652	652	653	653	653	652	653	652
14	653	653	653	653	653	653	654	654	654	654	654	654	654	653	653	653	653	653	653	653	653	653	653	653	653	654	653
15	653	652	652	652	652	652	652	652	653	653	653	652	652	651	651	651	651	651	651	652	652	652	652	652	652	653	651
16	652	652	652	652	653	653	654	654	654	655	655	655	654	654	654	654	653	654	654	654	654	654	654	654	654	655	652
17	654	654	654	653	653	654	654	654	655	655	654	654	653	653	652	652	652	652	652	652	652	652	652	652	653	655	652
18	652	652	652	652	652	652	653	653	654	654	654	654	653	653	653	653	653	653	653	653	654	654	654	654	653	654	652
19	654	654	653	654	654	654	654	654	655	655	655	655	654	654	653	653	653	653	653	653	653	653	653	653	654	655	653
20	653	653	652	652	652	652	652	653	653	653	653	653	652	652	651	651	651	651	651	651	652	652	652	652	652	653	651
21	652	652	652	652	652	652	653	653	654	654	654	654	653	653	653	653	653	653	653	653	654	654	654	654	653	654	652
22	654	654	654	654	654	655	655	655	655	655	655	655	654	654	654	654	653	653	653	653	653	653	653	653	654	655	653
23	653	653	653	653	653	653	653	653	654	654	654	653	653	652	652	652	652	652	652	652	652	652	652	652	653	654	652
24	652	652	652	652	652	653	653	653	654	654	654	653	653	652	652	652	652	652	653	653	653	653	654	654	653	654	652
25	654	654	654	654	654	654	654	655	655	656	656	655	655	655	654	654	654	654	655	655	655	655	655	655	655	656	654
26	655	655	655	655	655	656	656	656	657	657	656	656	656	655	655	655	655	655	655	655	655	655	654	654	655	657	654
27	654	654	654	654	653	653	653	653	654	654	653	653	652	651	651	650	650	650	650	650	650	650	649	649	652	654	649
28	649	649	649	649	649	650	650	650	650	651	651	651	650	650	649	650	649	650	650	650	650	651	651	651	650	651	649
29	651	651	651	651	651	651	651	651	651	651	651	651	650	649	649	650	650	650	650	651	651	651	651	651	651	651	649
30	651	651	650	650	650	650	651	651	652	652	652	652	652	651	652	652	652	652	652	653	653	653	653	653	652	653	650
31	653	654	654	653	654	654	654	655	655	655	655	655	654	654	653	653	653	653	653	653	654	654	654	654	654	655	653
Avg	652	652	652	652	652	652	653	653	653	654	654	653	653	652	652	652	652	652	652	652	652	653	653	652	653	--	--
Max	655	656	656	656	656	656	656	657	657	657	657	657	656	656	656	655	655	655	656	656	656	656	656	656	--	657	--
Min	648	648	648	647	648	648	648	649	649	649	649	649	648	648	647	647	647	647	647	648	648	648	648	648	--	--	647

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Nov 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	654	654	654	654	655	655	655	656	656	656	656	656	656	655	655	655	655	654	654	655	655	655	655	655	655	656	654
2	655	655	654	654	654	654	654	655	655	655	655	654	654	653	652	652	652	651	651	651	651	651	652	652	653	655	651
3	652	651	651	650	650	650	650	651	651	651	651	650	650	649	649	649	648	648	649	649	649	649	649	649	650	652	648
4	648	648	648	648	648	648	649	649	650	650	649	649	648	648	647	647	647	647	647	647	648	648	649	649	648	650	647
5	649	650	650	650	650	651	651	652	653	653	653	653	653	653	653	653	653	654	654	655	655	655	656	656	653	656	649
6	656	656	656	656	657	657	657	657	658	658	658	658	658	658	657	657	657	657	658	658	658	658	658	658	657	658	656
7	657	657	657	657	657	657	658	658	658	658	658	658	657	656	656	656	655	655	656	656	656	656	656	656	657	658	655
8	656	655	655	655	655	655	655	655	656	656	656	655	655	654	654	653	653	653	654	654	654	654	654	654	655	656	653
9	654	654	654	654	654	655	655	655	656	656	656	656	655	655	655	655	655	655	655	655	655	655	655	655	655	656	654
10	655	656	655	655	655	656	656	656	657	657	657	656	656	655	655	655	655	655	655	655	655	655	655	655	656	657	655
11	655	655	655	655	655	655	655	656	656	656	656	656	656	655	655	655	655	655	655	656	656	656	656	656	656	656	655
12	657	657	657	657	657	657	658	658	659	659	659	658	658	658	657	657	657	657	657	658	658	658	658	658	658	659	657
13	658	658	657	657	657	657	657	657	657	657	657	656	655	655	654	655	655	654	654	654	654	654	654	654	656	658	654
14	654	654	654	654	653	653	653	654	654	654	654	654	653	652	652	652	652	651	651	651	651	651	650	650	653	654	650
15	650	649	649	649	649	649	649	649	649	649	649	648	647	646	646	645	645	645	645	646	646	646	647	647	647	650	645
16	647	647	647	647	647	647	648	648	648	649	649	649	649	648	648	648	648	648	649	649	649	650	650	650	648	650	647
17	651	651	651	651	652	652	652	653	654	654	655	654	654	654	653	653	653	653	654	654	654	654	654	654	653	655	651
18	654	654	654	654	654	654	654	655	655	656	656	655	655	654	654	653	653	653	654	654	654	654	654	654	654	656	653
19	653	653	653	653	652	652	652	653	653	653	653	652	652	651	651	651	651	650	650	650	650	651	651	651	652	653	650
20	650	650	650	650	650	650	650	650	650	651	650	650	650	649	649	649	649	650	650	650	650	650	650	650	650	651	649
21	650	650	650	650	650	650	651	651	651	652	652	652	651	651	650	650	650	651	651	651	651	651	651	651	651	652	650
22	650	650	649	649	648	648	649	649	649	650	650	650	650	650	650	650	650	650	650	650	651	651	651	651	650	651	648
23	651	651	651	652	652	652	652	653	653	653	653	653	653	652	652	653	652	652	653	653	653	653	653	653	653	653	651
24	653	653	653	653	653	653	654	654	654	655	655	655	654	654	654	654	654	654	654	654	655	655	655	655	654	655	653
25	654	654	655	654	654	654	654	655	655	655	656	656	655	655	655	655	655	656	656	656	657	657	657	657	655	657	654
26	657	657	657	657	657	657	658	658	658	658	658	658	657	657	657	656	656	656	656	656	656	656	656	656	657	658	656
27	656	656	655	655	655	655	655	655	655	655	655	655	654	653	653	653	653	653	653	653	653	654	654	654	654	656	653
28	654	653	653	653	653	653	653	654	654	654	655	654	654	653	653	653	653	654	654	654	655	655	655	655	654	655	653
29	655	655	655	655	655	656	656	656	657	657	657	657	656	656	655	655	655	655	655	656	656	656	656	656	656	657	655
30	656	656	656	656	656	656	656	656	657	657	657	657	656	655	655	655	655	655	655	655	656	656	656	656	656	657	655
Avg	653	653	653	653	653	653	654	654	654	654	654	654	654	653	653	653	653	653	653	653	653	653	654	654	653	--	--
Max	658	658	657	657	657	657	658	658	659	659	659	658	658	658	657	657	657	657	658	658	658	658	658	658	--	659	--
Min	647	647	647	647	647	647	648	648	648	649	649	648	647	646	646	645	645	645	645	646	646	646	647	647	--	--	645

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Dec 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	656	656	656	656	655	656	656	657	657	657	657	657	656	656	656	656	656	656	656	656	656	656	656	656	656	657	655
2	656	655	655	655	654	654	654	654	654	655	655	654	654	653	652	652	652	652	652	651	651	651	651	651	653	656	651
3	650	650	650	649	649	649	649	649	649	650	649	649	648	648	647	647	647	647	647	646	647	647	647	647	648	650	646
4	647	647	646	646	646	647	647	647	648	648	648	648	648	647	648	648	648	648	648	649	649	649	649	649	648	649	646
5	649	649	649	648	648	649	649	649	650	650	650	650	650	649	649	650	650	650	650	650	651	651	651	652	650	652	648
6	652	652	652	652	653	653	653	653	654	654	655	654	654	653	653	653	653	653	653	653	653	653	653	652	653	655	652
7	652	652	652	652	651	651	651	651	652	652	652	652	651	651	650	650	650	650	651	651	651	651	651	651	651	652	650
8	651	651	651	651	651	651	651	652	652	653	653	653	652	652	652	651	651	651	651	652	652	652	652	652	652	653	651
9	652	652	652	652	652	653	653	654	655	655	656	656	656	656	656	656	656	656	656	657	657	657	657	657	655	657	652
10	657	657	657	656	656	656	656	656	657	657	657	656	656	655	654	655	654	654	654	655	655	655	655	655	656	657	654
11	655	655	655	655	655	655	655	656	656	657	657	657	657	656	656	656	656	656	656	656	657	657	657	657	656	657	655
12	657	657	657	656	656	656	656	656	656	657	656	656	655	655	654	654	654	654	654	654	654	654	654	654	655	657	654
13	654	654	654	654	653	653	654	654	654	655	655	655	655	654	654	654	654	654	654	654	654	655	655	655	654	655	653
14	655	655	655	655	655	656	656	656	657	657	658	658	658	657	657	657	657	657	658	658	658	658	659	658	657	659	655
15	658	659	658	658	658	658	658	658	658	658	658	658	658	657	657	657	657	657	657	657	657	657	657	657	658	659	657
16	657	657	657	657	657	656	657	657	657	658	658	658	657	657	657	657	657	657	657	657	657	657	658	658	657	658	656
17	658	657	658	658	657	657	658	658	658	659	659	658	657	657	656	656	656	656	656	656	656	656	656	656	657	659	656
18	655	655	655	655	654	654	654	654	654	655	654	654	653	652	652	652	651	651	651	651	650	650	650	649	653	655	649
19	649	649	649	648	648	648	648	648	648	648	648	647	647	646	646	645	645	645	646	646	646	646	646	646	647	649	645
20	645	645	645	644	644	644	645	645	645	645	645	645	645	644	644	645	645	645	645	646	646	646	646	646	645	646	644
21	646	646	646	646	646	646	647	647	648	648	648	648	648	648	648	649	649	649	650	650	651	651	651	652	648	652	646
22	652	652	653	653	653	653	654	654	655	656	656	656	656	655	655	656	656	656	656	656	657	657	657	657	655	657	652
23	657	657	657	658	657	658	658	658	659	659	659	659	659	659	659	658	658	658	658	658	658	658	658	658	658	659	657
24	657	657	657	657	657	656	657	657	657	657	657	657	656	656	656	655	655	655	655	656	656	656	656	656	656	657	655
25	656	656	656	656	656	656	656	657	658	658	658	658	657	656	656	656	656	656	657	657	657	657	657	657	657	658	656
26	657	657	657	657	657	657	657	657	657	657	657	657	656	656	656	655	656	656	656	656	656	656	656	656	656	657	655
27	656	657	657	656	656	656	656	657	657	657	658	657	656	656	656	655	655	655	655	656	656	656	656	656	656	658	655
28	655	655	655	655	654	654	654	654	654	654	654	654	653	652	652	652	651	651	651	651	651	651	651	651	653	655	651
29	651	651	651	651	651	651	651	651	652	652	653	652	652	652	652	652	653	653	653	654	654	654	655	655	652	655	651
30	655	655	655	656	656	656	656	656	657	658	658	658	657	656	656	656	656	656	657	657	657	657	658	657	657	658	655
31	657	657	657	657	657	657	657	657	657	657	657	657	656	655	655	655	655	655	655	655	655	655	655	655	656	657	655
Avg	654	654	654	654	653	653	654	654	654	655	655	655	654	653	653	653	653	653	653	654	654	654	654	654	654	--	--
Max	658	659	658	658	658	658	658	658	659	659	659	659	659	659	659	658	658	658	658	658	658	658	659	658	--	659	--
Min	645	645	645	644	644	644	645	645	645	645	645	645	645	644	644	645	645	645	645	646	646	646	646	646	--	--	644

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Oct 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	0.8	0.8	0.8	0.9	1.6	2.0	1.1	0.7	0.7	0.9	1.5	2.6	3.6	4.0	3.4	3.7	3.4	3.1	1.8	0.7	1.4	2.1	1.0	0.9	1.8	4.0	0.7
2	0.5	2.2	1.0	0.6	0.5	1.5	1.8	1.8	0.9	1.2	2.6	2.6	3.0	3.5	3.5	3.9	3.9	3.3	2.2	0.7	0.4	1.2	1.8	2.1	1.9	3.9	0.4
3	1.6	1.0	1.1	1.0	1.4	1.3	1.0	1.4	1.9	2.3	3.1	4.1	4.8	4.8	4.6	5.4	5.3	4.2	2.2	0.7	0.3	0.4	0.7	0.7	2.3	5.4	0.3
4	1.0	1.0	0.8	0.9	0.8	1.0	2.5	2.4	1.3	1.7	2.1	2.7	4.4	4.4	4.9	4.5	5.1	4.6	3.0	0.8	0.2	2.2	7.3	10.6	2.9	10.6	0.2
5	9.7	10.3	11.0	11.2	11.3	10.8	9.6	8.2	7.7	9.7	8.0	7.7	4.8	2.9	3.2	4.4	3.4	2.4	2.4	3.5	6.2	2.2	3.7	5.2	6.6	11.3	2.2
6	4.4	4.0	6.9	6.4	2.8	2.7	3.1	9.5	11.3	6.7	6.9	4.6	4.1	2.2	2.1	1.7	1.8	3.0	3.9	3.6	3.9	5.0	3.6	5.3	4.6	11.3	1.7
7	4.3	1.5	3.7	5.5	3.0	2.9	3.4	2.6	3.6	6.4	6.0	4.4	3.1	3.1	2.7	3.2	3.7	2.1	1.0	1.2	3.5	2.3	1.8	1.1	3.2	6.4	1.0
8	0.9	0.5	0.6	3.9	3.3	0.5	1.0	3.1	2.9	2.5	4.0	3.9	5.5	5.5	5.5	5.4	5.3	4.0	1.4	0.5	0.6	0.9	1.1	1.2	2.7	5.5	0.5
9	1.1	1.2	1.5	1.7	3.3	1.5	0.8	0.8	3.8	4.9	6.4	7.6	7.5	8.6	8.4	7.9	7.1	6.6	4.9	4.5	3.7	2.9	2.8	2.7	4.3	8.6	0.8
10	3.3	3.3	4.2	4.6	6.4	4.7	6.1	3.7	1.1	3.3	2.5	2.3	3.0	3.8	2.8	2.6	1.4	1.7	0.9	1.4	2.0	2.2	3.1	2.9	3.1	6.4	0.9
11	0.9	2.4	0.8	1.9	4.9	4.9	2.6	3.6	1.6	1.3	1.7	2.2	2.8	3.2	2.5	3.1	2.7	2.7	1.5	0.9	1.0	0.7	0.3	0.6	2.1	4.9	0.3
12	0.7	0.9	0.8	1.1	2.0	1.9	0.9	2.0	4.1	4.3	4.6	4.5	4.5	3.1	3.9	3.7	3.6	2.8	1.4	0.6	1.5	2.3	0.8	1.8	2.4	4.6	0.6
13	1.2	0.8	0.5	0.5	0.7	1.5	1.2	0.7	2.4	4.4	5.7	6.0	5.4	5.0	4.9	5.3	4.9	3.8	1.6	0.9	1.0	0.6	0.4	0.3	2.5	6.0	0.3
14	0.6	0.8	0.7	1.1	1.8	1.1	1.8	1.1	1.2	1.2	1.9	2.8	2.9	3.9	3.5	3.9	4.3	3.3	1.0	1.6	0.7	0.7	0.8	0.8	1.8	4.3	0.6
15	4.4	3.3	3.0	2.0	3.4	2.6	2.4	1.6	1.1	1.1	1.7	3.3	4.2	3.9	4.1	4.3	4.2	3.9	1.6	1.1	0.4	0.6	0.4	0.6	2.5	4.4	0.4
16	1.0	2.1	1.6	3.2	1.8	0.8	2.7	3.3	2.5	2.2	3.5	2.0	2.7	2.9	2.5	4.0	3.8	3.8	0.8	0.6	0.3	0.6	0.5	0.7	2.1	4.0	0.3
17	1.1	1.3	3.0	4.1	4.5	3.9	2.5	2.3	2.2	1.1	1.7	2.1	2.9	3.7	3.1	3.6	3.3	3.2	1.3	0.4	0.1	0.5	0.4	0.2	2.2	4.5	0.1
18	0.9	0.6	0.2	1.4	1.0	0.8	1.0	1.4	2.1	2.0	1.7	2.0	3.3	2.9	3.8	4.1	4.0	2.6	1.1	0.6	1.6	1.1	0.9	0.9	1.8	4.1	0.2
19	1.0	1.4	1.1	1.7	2.4	1.2	1.4	2.5	2.4	2.5	2.4	2.5	1.8	2.2	3.1	2.9	3.5	2.9	1.2	0.6	0.7	0.7	0.4	0.6	1.8	3.5	0.4
20	1.6	0.5	1.3	3.0	1.9	0.7	0.8	0.8	1.6	1.0	1.7	2.1	2.8	3.4	3.5	3.4	3.4	2.8	1.8	0.9	0.5	0.6	0.6	0.6	1.7	3.5	0.5
21	0.7	0.6	0.9	0.7	0.5	0.7	0.6	2.3	3.6	1.5	1.7	1.6	2.3	3.7	3.8	3.6	3.7	2.3	1.0	1.2	2.3	1.0	0.5	0.9	1.7	3.8	0.5
22	1.2	2.3	2.0	2.2	6.3	6.3	3.9	3.2	3.0	5.4	4.4	4.9	5.3	3.5	2.9	2.7	2.5	3.4	4.2	3.5	4.8	4.3	5.2	5.1	3.9	6.3	1.2
23	4.8	4.9	4.0	3.0	4.7	5.9	6.6	6.7	6.9	7.0	5.4	6.5	3.9	2.8	2.7	2.8	2.1	1.8	3.6	3.8	3.2	1.3	2.0	5.0	4.2	7.0	1.3
24	3.7	2.5	3.2	3.4	2.2	2.2	2.3	2.4	3.3	6.9	5.5	3.8	2.7	3.0	4.3	4.3	3.6	1.8	0.3	0.9	0.6	0.5	0.7	1.0	2.7	6.9	0.3
25	1.4	0.7	0.3	0.3	0.4	0.3	1.5	0.5	0.8	1.1	1.4	2.7	3.3	3.5	3.8	4.2	3.8	2.4	1.4	0.2	0.7	0.9	1.5	0.9	1.6	4.2	0.2
26	2.1	2.0	2.3	1.3	1.3	1.7	5.7	7.4	8.6	8.9	7.9	7.3	4.4	2.7	2.4	1.6	2.2	2.1	0.5	1.2	1.1	3.3	4.1	3.9	3.6	8.9	0.5
27	3.2	4.6	4.5	4.3	4.2	4.8	3.3	3.2	4.8	5.5	5.8	3.8	3.8	3.7	4.8	5.1	4.4	2.8	0.7	0.8	0.4	1.3	1.2	1.1	3.4	5.8	0.4
28	1.0	1.3	1.0	0.9	1.2	1.8	2.9	2.4	3.8	5.1	6.7	6.7	6.0	6.3	6.2	4.9	4.1	4.8	5.3	4.7	3.3	3.4	4.5	4.8	3.9	6.7	0.9
29	3.3	1.5	1.8	0.7	0.9	0.9	1.0	0.8	0.9	4.2	5.0	5.2	5.6	5.8	5.9	5.8	5.9	4.4	1.3	1.4	1.1	0.5	0.5	1.3	2.7	5.9	0.5
30	1.1	1.8	0.7	0.5	1.0	0.5	1.0	1.1	0.8	1.8	3.7	3.6	3.9	3.9	4.4	3.9	3.8	2.6	1.5	0.9	0.7	1.1	0.9	0.9	1.9	4.4	0.5
31	1.1	0.5	0.7	1.6	4.7	5.9	5.2	4.7	1.3	0.9	1.7	2.2	3.1	2.8	3.1	3.6	4.0	2.3	1.0	0.3	0.3	0.4	0.1	0.6	2.2	5.9	0.1
Avg	2.1	2.0	2.1	2.4	2.8	2.6	2.6	2.8	3.0	3.5	3.8	3.9	3.9	3.8	3.9	4.0	3.8	3.1	1.9	1.4	1.6	1.5	1.7	2.1	2.8	--	--
Max	9.7	10.3	11.0	11.2	11.3	10.8	9.6	9.5	11.3	9.7	8.0	7.7	7.5	8.6	8.4	7.9	7.1	6.6	5.3	4.7	6.2	5.0	7.3	10.6	--	11.3	--
Min	0.5	0.5	0.2	0.3	0.4	0.3	0.6	0.5	0.7	0.9	1.4	1.6	1.8	2.2	2.1	1.6	1.4	1.7	0.3	0.2	0.1	0.4	0.1	0.2	--	--	0.1

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Nov 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	0.2	0.8	1.0	0.6	1.8	3.9	2.3	3.2	2.2	3.3	2.3	3.1	2.7	4.0	3.2	2.0	1.1	1.1	1.8	1.1	2.7	1.8	2.0	4.0	0.2
2	4.4	6.7	4.6	4.2	4.8	6.8	6.3	5.6	6.6	7.6	8.3	8.1	6.8	4.7	3.4	3.0	2.3	3.9	2.2	2.6	4.3	2.0	2.9	3.7	4.8	8.3	2.0
3	4.5	2.5	3.7	5.5	3.3	4.3	4.1	3.3	2.6	2.9	3.0	3.4	4.2	5.1	5.1	4.3	4.0	2.7	1.1	0.7	1.4	0.8	1.3	1.6	3.1	5.5	0.7
4	2.0	2.7	1.6	4.1	4.9	5.5	3.5	1.7	2.0	3.2	3.9	4.6	5.0	4.9	4.5	4.3	3.2	2.8	0.7	0.8	0.8	0.5	4.3	2.5	3.1	5.5	0.5
5	1.1	1.3	1.2	1.0	1.4	0.5	0.8	0.8	1.0	1.4	1.9	2.4	3.4	3.5	3.6	4.4	3.9	2.1	0.5	0.5	2.2	2.9	3.3	1.8	1.9	4.4	0.5
6	6.1	6.1	2.5	2.0	1.4	1.6	2.4	2.8	2.8	2.3	4.1	5.7	4.6	2.5	1.9	2.0	3.3	3.4	4.0	5.7	3.8	3.3	3.9	6.4	3.5	6.4	1.4
7	8.8	4.0	5.2	9.4	7.4	7.6	6.5	5.5	4.8	4.6	4.6	5.9	6.1	3.5	3.9	2.6	3.5	3.6	3.8	4.7	4.5	4.6	3.1	2.5	5.0	9.4	2.5
8	3.0	3.1	4.1	6.0	2.9	2.6	2.2	3.2	2.9	2.8	2.7	2.3	1.5	2.9	3.2	3.2	3.8	2.2	0.9	0.4	0.7	0.4	0.7	0.4	2.4	6.0	0.4
9	0.6	0.6	1.5	1.5	4.2	2.6	1.7	1.3	1.6	1.1	1.6	1.3	2.6	3.4	2.8	2.7	3.4	2.0	0.6	1.4	1.8	1.1	0.9	0.7	1.8	4.2	0.6
10	0.9	1.9	3.7	2.8	1.4	1.7	1.6	4.2	3.2	1.3	1.8	3.0	3.9	2.6	2.9	1.5	2.4	4.1	4.7	4.0	1.8	1.9	1.3	0.9	2.5	4.7	0.9
11	1.6	1.4	1.9	1.8	1.3	1.6	3.1	2.1	2.2	3.7	6.2	5.5	5.7	3.0	2.7	3.4	3.2	2.3	3.0	2.4	1.8	4.5	4.2	4.3	3.0	6.2	1.3
12	5.4	3.5	3.1	3.2	2.8	3.7	3.5	4.2	4.7	6.7	6.4	4.2	3.3	4.6	4.2	4.4	5.2	5.2	4.0	5.6	2.9	4.0	3.1	5.9	4.3	6.7	2.8
13	6.7	8.9	10.6	10.8	12.2	10.8	11.4	10.1	11.3	8.3	9.4	4.0	2.9	2.8	2.1	4.1	5.1	4.6	4.8	6.6	6.4	6.3	4.7	4.8	7.1	12.2	2.1
14	2.1	2.4	4.8	3.8	5.0	4.7	4.2	6.6	6.1	5.5	2.5	2.8	2.8	2.2	2.1	4.0	3.1	2.0	0.6	1.8	1.9	1.9	2.5	2.3	3.2	6.6	0.6
15	1.5	0.8	2.5	3.5	2.6	1.3	1.6	1.8	1.1	3.3	3.6	5.6	6.5	6.6	6.4	6.7	4.4	5.2	5.9	2.7	2.9	3.4	3.7	2.6	3.6	6.7	0.8
16	2.3	1.8	1.0	1.9	2.6	2.4	3.0	2.5	2.3	2.7	3.8	3.4	4.4	4.7	4.7	4.7	4.8	2.9	1.4	0.9	1.2	0.5	0.9	0.4	2.5	4.8	0.4
17	0.4	0.8	0.7	0.9	1.1	0.9	0.4	0.4	0.5	2.0	3.6	3.4	2.4	2.3	2.3	1.9	1.7	1.7	0.9	2.0	3.0	2.1	1.1	0.7	1.6	3.6	0.4
18	1.0	1.8	2.8	3.0	2.9	2.2	1.6	2.0	1.7	1.4	2.2	2.0	1.7	1.8	3.7	3.0	2.9	1.8	0.9	1.4	2.4	0.9	0.5	0.8	1.9	3.7	0.5
19	1.2	0.4	0.3	0.5	0.6	2.3	1.3	3.7	4.4	1.8	1.4	3.0	4.0	5.0	4.2	3.5	3.1	2.0	0.4	0.8	0.6	0.5	0.3	1.5	2.0	5.0	0.3
20	1.8	1.3	0.6	0.8	0.3	0.8	1.6	1.3	0.6	1.0	0.9	2.3	3.8	4.3	3.6	3.0	2.7	2.1	1.0	0.0	0.5	0.6	0.2	0.7	1.5	4.3	0.0
21	0.3	0.6	0.7	0.8	0.6	0.6	0.4	0.8	1.2	1.2	3.5	3.5	3.1	3.0	3.5	2.6	1.4	1.4	1.4	1.0	1.2	1.9	4.9	3.3	1.8	4.9	0.3
22	4.8	4.4	4.8	6.9	8.9	5.2	1.9	2.1	2.0	2.8	2.7	1.8	3.0	2.7	3.3	1.3	1.4	1.7	1.7	1.2	1.0	1.2	2.6	2.1	3.0	8.9	1.0
23	1.6	0.8	1.2	2.3	1.8	2.4	3.1	3.7	2.1	6.8	9.4	8.8	7.8	7.9	6.8	8.4	6.3	8.1	7.8	6.4	5.5	4.1	3.2	3.0	5.0	9.4	0.8
24	3.1	4.9	4.4	3.7	3.8	7.4	6.8	6.7	6.2	5.4	5.8	5.4	5.3	4.5	3.6	2.5	3.8	4.6	4.5	3.7	3.6	5.6	6.9	6.9	5.0	7.4	2.5
25	5.3	1.9	5.2	5.0	1.8	1.1	1.4	0.8	0.5	0.7	0.9	1.2	2.5	2.9	2.8	2.3	2.5	1.4	0.8	2.6	2.3	2.5	6.0	8.3	2.6	8.3	0.5
26	5.3	4.2	7.4	5.0	4.3	3.5	7.5	10.7	10.3	5.4	4.1	4.6	4.3	4.0	5.2	4.3	4.1	4.2	3.8	2.9	4.0	4.9	3.7	3.9	5.1	10.7	2.9
27	3.7	8.9	8.9	6.7	5.6	4.2	7.0	6.9	9.6	9.1	5.9	4.9	4.9	4.3	7.4	9.1	6.4	7.8	8.4	6.7	5.3	4.3	7.2	7.8	6.7	9.6	3.7
28	5.7	4.2	8.5	8.5	6.4	4.8	7.5	5.7	3.8	4.5	3.7	3.0	4.5	3.4	4.1	3.9	3.1	3.4	5.9	5.7	4.0	3.3	3.2	2.8	4.7	8.5	2.8
29	2.4	3.9	4.6	5.1	5.6	5.0	4.7	4.0	2.6	4.2	3.9	3.0	2.9	3.1	2.1	2.1	3.4	0.7	0.7	1.0	1.3	1.1	0.9	0.5	2.9	5.6	0.5
30	0.8	2.6	2.0	0.8	0.8	0.6	1.3	1.3	1.1	2.3	2.1	2.3	2.3	1.9	2.3	2.0	1.4	0.8	0.4	0.3	0.9	0.9	0.6	0.2	1.3	2.6	0.2
Avg	3.0	3.0	3.5	3.7	3.4	3.3	3.5	3.7	3.5	3.6	3.9	3.8	4.0	3.7	3.7	3.6	3.4	3.1	2.6	2.6	2.5	2.4	2.8	2.8	3.3	--	--
Max	8.8	8.9	10.6	10.8	12.2	10.8	11.4	10.7	11.3	9.1	9.4	8.8	7.8	7.9	7.4	9.1	6.4	8.1	8.4	6.7	6.4	6.3	7.2	8.3	--	12.2	--
Min	0.3	0.4	0.2	0.5	0.3	0.5	0.4	0.4	0.5	0.7	0.9	1.2	1.5	1.8	1.9	1.3	1.4	0.7	0.4	0.0	0.5	0.4	0.2	0.2	--	--	0.0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Dec 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	0.2	0.3	0.9	1.3	1.9	0.6	0.9	1.8	1.0	0.6	1.4	2.8	2.1	2.6	3.7	2.3	1.7	0.8	0.8	0.9	0.8	0.7	0.8	1.0	1.3	3.7	0.2
2	0.8	1.8	3.0	2.9	2.1	0.7	0.6	1.6	1.1	0.8	1.1	1.8	2.0	2.0	2.1	2.1	2.4	2.1	0.7	1.0	0.6	1.5	1.1	1.2	1.5	3.0	0.6
3	1.0	0.9	0.9	0.7	0.7	0.4	0.6	0.9	0.7	0.9	2.7	2.7	2.9	4.2	4.5	4.1	3.2	1.1	1.2	1.6	1.3	1.1	1.0	1.1	1.7	4.5	0.4
4	1.1	1.4	1.0	0.8	0.9	0.6	1.4	1.3	2.7	4.5	6.8	5.2	6.2	5.7	5.9	2.6	0.9	1.0	1.7	1.4	1.5	1.5	1.3	1.0	2.4	6.8	0.6
5	0.7	1.0	0.6	0.6	0.7	0.4	1.0	0.4	1.2	1.7	3.1	3.9	3.4	3.4	3.9	4.2	4.0	2.0	1.0	0.3	0.3	0.5	0.9	0.9	1.7	4.2	0.3
6	0.5	0.7	0.7	0.5	0.8	1.5	3.4	2.4	1.8	2.1	1.4	1.9	2.1	2.1	1.9	2.9	2.7	2.2	1.0	0.7	1.2	0.8	0.9	1.1	1.6	3.4	0.5
7	0.4	0.9	0.6	0.3	0.3	0.9	1.4	1.1	0.6	0.8	1.4	2.3	3.6	4.3	4.3	4.4	3.8	2.0	1.1	0.8	1.5	2.2	2.8	3.3	1.9	4.4	0.3
8	5.4	4.3	3.9	2.2	1.5	2.3	4.1	2.0	1.7	1.8	3.6	4.0	4.3	4.8	4.6	4.1	3.4	2.4	2.4	2.5	1.2	0.7	1.0	0.8	2.9	5.4	0.7
9	0.6	1.1	0.9	0.6	1.4	0.5	0.5	0.8	0.7	0.9	1.5	3.3	3.3	2.6	3.3	2.9	2.9	3.5	2.6	2.8	2.7	2.8	1.6	3.1	2.0	3.5	0.5
10	4.3	3.6	3.5	4.5	4.1	4.2	4.1	7.2	6.3	8.1	7.7	6.2	5.7	4.8	4.1	3.5	4.0	4.9	5.4	5.0	7.0	4.2	3.1	2.9	4.9	8.1	2.9
11	2.3	3.6	4.3	4.0	4.1	7.0	6.8	4.6	4.0	4.2	4.6	3.8	3.4	2.9	3.9	3.9	3.9	2.6	2.2	3.2	4.6	5.9	4.8	3.9	4.1	7.0	2.2
12	3.7	4.2	4.8	4.3	4.0	5.5	3.5	3.5	4.3	4.8	5.1	5.4	4.9	4.2	3.1	2.5	4.8	3.2	2.0	1.5	0.8	0.6	0.9	0.3	3.4	5.5	0.3
13	0.7	0.8	1.0	1.8	0.5	1.0	1.6	0.8	1.6	0.8	1.1	2.0	2.4	2.7	3.1	2.7	3.3	1.9	1.2	0.6	0.8	1.4	0.6	0.8	1.5	3.3	0.5
14	0.9	1.2	0.6	1.1	0.7	1.1	2.3	2.2	3.6	4.2	7.4	7.7	5.4	3.2	2.8	2.5	3.1	3.4	2.7	1.9	1.8	2.2	1.7	1.4	2.7	7.7	0.6
15	4.9	7.6	7.8	7.1	8.1	7.2	4.6	1.6	3.5	4.0	3.3	4.1	3.1	2.4	2.3	2.1	2.9	1.9	1.5	3.5	3.3	3.1	4.8	4.8	4.1	8.1	1.5
16	3.5	4.8	6.1	5.9	5.0	3.9	1.5	3.9	7.5	8.6	3.9	2.6	2.7	2.2	2.0	2.6	2.2	1.0	1.7	2.6	4.1	2.2	3.4	3.9	3.7	8.6	1.0
17	6.4	1.5	1.9	2.6	2.3	3.3	5.0	5.2	5.3	5.9	7.5	4.8	6.5	6.3	3.3	3.1	3.2	5.5	4.8	6.7	2.8	2.5	2.6	3.4	4.3	7.5	1.5
18	2.6	4.4	2.9	2.9	3.2	5.5	4.3	3.1	2.8	3.4	2.5	3.9	3.8	3.5	3.0	2.2	2.5	2.4	1.1	0.8	3.0	1.4	0.8	0.5	2.8	5.5	0.5
19	0.5	1.2	1.5	1.3	1.6	1.5	2.9	3.7	4.0	4.2	5.0	5.3	6.1	5.9	5.1	5.3	5.3	4.1	1.3	0.7	1.7	2.4	1.9	1.4	3.1	6.1	0.5
20	1.1	0.6	3.3	4.4	3.4	3.3	3.1	3.0	4.2	4.2	2.4	2.7	1.7	2.9	2.2	3.3	2.4	1.4	1.1	2.0	1.9	1.8	1.8	2.5	2.5	4.4	0.6
21	1.3	3.0	3.2	3.5	3.8	3.4	3.5	3.5	2.9	3.4	2.8	3.6	4.1	4.3	3.7	2.9	1.2	1.1	1.5	0.7	0.4	0.7	0.8	1.3	2.5	4.3	0.4
22	1.1	1.1	1.2	1.2	1.8	2.5	1.3	1.2	2.7	1.6	1.0	2.0	2.1	2.4	2.9	2.7	2.8	1.6	0.7	0.8	1.3	1.3	1.0	3.9	1.8	3.9	0.7
23	3.4	4.1	5.3	6.7	3.9	3.7	4.4	4.1	3.1	3.5	3.4	2.9	3.4	2.6	2.1	2.4	2.3	2.6	7.1	7.9	6.3	3.7	4.4	3.9	4.1	7.9	2.1
24	4.6	5.3	7.1	5.5	3.2	2.7	5.4	3.8	3.0	3.2	5.8	3.2	2.3	3.1	2.9	2.9	1.6	1.1	1.1	1.8	2.7	2.2	8.6	11.0	3.9	11.0	1.1
25	8.1	9.9	13.1	14.7	6.5	5.8	10.7	6.0	7.4	11.5	3.8	5.9	4.5	4.4	4.0	2.7	2.7	3.5	3.3	7.5	11.2	11.9	15.8	16.3	8.0	16.3	2.7
26	13.8	14.4	17.2	17.1	14.9	15.3	13.5	8.4	9.1	8.3	6.8	11.9	10.0	5.5	3.7	2.7	4.7	4.3	5.2	3.8	1.5	1.9	2.5	3.6	8.3	17.2	1.5
27	1.9	6.2	6.5	11.3	8.1	8.1	3.2	4.3	10.9	10.4	11.1	9.8	5.8	6.5	5.4	4.3	2.6	3.5	4.7	2.6	2.2	2.6	2.3	1.3	5.6	11.3	1.3
28	1.4	1.1	1.2	1.0	1.9	2.0	2.0	2.0	2.0	2.3	2.5	2.9	2.6	1.6	2.1	2.3	2.0	0.7	1.5	2.5	1.6	2.7	0.7	1.6	1.8	2.9	0.7
29	2.7	1.3	2.6	2.8	2.0	1.8	3.8	3.6	1.9	1.9	3.3	3.3	3.2	2.3	2.2	3.4	3.1	2.0	2.9	2.3	4.9	3.6	3.4	2.0	2.8	4.9	1.3
30	1.3	1.0	0.9	1.1	1.9	1.1	1.4	1.0	0.9	1.1	1.4	1.5	2.2	2.9	2.6	2.3	2.6	1.6	0.9	0.5	0.5	1.0	1.0	2.0	1.5	2.9	0.5
31	1.6	2.6	4.0	1.9	2.0	1.9	1.7	1.6	1.2	2.5	3.8	3.3	2.4	2.6	2.2	1.9	1.4	2.0	3.9	4.5	4.4	3.6	2.2	3.2	2.6	4.5	1.2
Avg	2.7	3.1	3.6	3.8	3.1	3.2	3.4	2.9	3.4	3.7	3.8	4.1	3.8	3.6	3.3	3.0	2.9	2.4	2.3	2.4	2.6	2.4	2.6	2.9	3.1	--	--
Max	13.8	14.4	17.2	17.1	14.9	15.3	13.5	8.4	10.9	11.5	11.1	11.9	10.0	6.5	5.9	5.3	5.3	5.5	7.1	7.9	11.2	11.9	15.8	16.3	--	17.2	--
Min	0.2	0.3	0.6	0.3	0.3	0.4	0.5	0.4	0.6	0.6	1.0	1.5	1.7	1.6	1.9	1.9	0.9	0.7	0.7	0.3	0.3	0.5	0.6	0.3	--	--	0.2

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Oct 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	32	0	347	17	32	1	115	166	176	148	249	250	259	261	237	234	243	286	4	16	3	355	6	318	355	0
2	321	24	45	4	32	23	46	114	156	193	208	238	245	260	256	256	252	245	271	325	16	48	26	39	324	325	4
3	50	304	68	55	58	24	42	61	134	139	199	206	214	229	224	236	241	253	262	310	291	176	52	81	198	310	24
4	53	45	114	229	345	22	42	70	134	203	177	240	255	238	221	239	253	250	261	296	33	17	20	20	297	345	17
5	29	25	24	24	28	42	36	49	54	50	42	30	22	39	10	3	21	48	57	48	48	173	181	61	40	181	3
6	243	149	39	65	229	219	269	42	44	46	31	49	54	77	121	246	115	48	65	93	69	64	62	68	69	269	31
7	50	131	52	58	63	290	282	133	135	51	84	83	73	153	184	198	246	272	317	1	47	36	14	358	59	358	1
8	9	308	339	47	86	298	17	53	75	159	159	195	211	215	220	210	205	209	158	54	105	45	110	106	126	339	9
9	57	81	101	102	111	148	267	253	133	141	155	182	192	202	196	210	224	233	232	231	239	250	181	224	188	267	57
10	252	224	198	193	229	213	202	251	195	242	256	239	218	234	227	204	208	182	273	35	47	29	44	35	225	273	29
11	279	85	350	94	65	72	57	86	148	203	182	188	186	218	217	213	237	258	300	27	45	42	8	294	140	350	8
12	298	312	356	25	61	28	293	292	64	72	92	142	158	172	236	234	248	253	296	335	17	36	349	18	346	356	17
13	36	354	24	334	72	92	98	138	108	162	156	176	204	205	228	220	217	233	264	41	46	8	35	307	113	354	8
14	297	38	39	47	38	32	42	66	106	182	212	190	260	249	238	235	242	247	311	343	270	246	288	338	292	343	32
15	56	42	43	68	58	55	68	61	153	152	221	247	247	249	240	245	248	253	286	294	86	60	308	5	351	308	5
16	25	34	32	55	24	324	333	321	221	104	67	134	219	235	248	266	262	244	296	325	3	339	286	273	317	339	3
17	14	4	51	52	64	55	37	41	125	174	176	152	211	235	222	241	246	263	289	332	324	25	335	330	346	335	4
18	6	209	325	34	20	25	349	49	347	240	187	279	335	251	235	236	263	264	337	357	32	25	11	275	324	357	6
19	292	283	263	322	326	14	331	349	328	61	189	48	254	219	205	216	263	268	309	328	344	355	345	260	303	355	14
20	28	278	24	35	305	344	302	246	125	157	159	181	250	249	246	251	242	260	299	36	27	5	276	347	293	347	5
21	350	358	334	19	309	3	353	22	70	166	174	209	194	248	254	238	246	267	317	2	33	206	348	333	314	358	2
22	304	7	257	270	55	57	7	265	275	41	74	55	49	55	114	147	140	69	57	65	78	64	42	41	50	304	7
23	50	32	335	278	17	30	33	31	39	46	71	61	61	105	135	194	179	120	56	54	55	301	46	67	52	335	17
24	83	171	102	66	50	206	203	355	54	65	76	83	139	178	221	260	261	261	313	2	287	329	333	38	39	355	2
25	36	305	317	282	319	334	52	251	275	193	204	239	246	240	248	238	244	265	307	345	303	360	264	344	284	360	36
26	355	64	42	273	196	141	57	59	60	51	53	54	44	76	10	24	327	273	342	58	18	63	82	75	43	355	10
27	61	52	68	58	71	53	35	74	71	87	78	91	162	192	207	231	232	229	295	38	43	41	46	60	70	295	35
28	85	115	67	91	110	104	115	132	157	175	193	201	210	202	208	207	215	194	187	182	165	142	156	162	160	215	67
29	167	182	189	186	44	38	7	13	157	167	179	210	228	222	246	252	261	274	295	292	310	302	11	49	245	310	7
30	46	36	22	252	30	206	329	272	144	229	251	237	236	229	242	236	245	248	276	324	20	16	310	316	280	329	16
31	302	237	237	28	55	55	66	61	132	213	168	176	255	230	254	246	247	255	302	343	17	354	304	308	282	354	17
Avg	9	22	25	31	40	34	16	46	115	146	156	180	219	218	226	233	239	249	298	359	22	20	4	8	346	--	--
Max	355	358	356	347	345	344	353	355	347	242	256	279	335	260	261	266	327	274	342	357	344	360	355	358	--	360	--
Min	6	4	0	4	17	3	1	13	39	41	31	30	22	39	10	3	21	48	56	1	3	3	8	5	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Nov 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	5	301	321	265	358	16	59	65	226	234	138	253	337	345	240	256	274	323	38	2	337	359	291	326	359	2
2	19	62	79	43	348	78	72	68	66	76	81	55	58	63	110	112	72	56	92	100	71	95	251	109	72	348	19
3	97	143	117	65	36	61	68	68	65	88	152	153	199	216	240	236	244	256	343	93	31	305	41	37	88	343	31
4	41	43	28	61	64	58	49	117	121	155	151	169	185	201	211	234	231	236	257	141	116	227	231	233	158	257	28
5	91	294	6	54	40	82	286	109	251	229	252	259	218	271	250	234	246	228	127	36	50	69	74	269	271	294	6
6	0	35	22	212	276	239	276	254	229	224	76	54	42	27	34	34	59	55	79	66	278	351	23	38	17	351	0
7	38	357	352	36	19	26	7	340	339	339	105	69	66	143	121	119	47	76	59	59	56	66	45	337	43	357	7
8	41	18	38	57	40	61	70	80	77	83	76	79	256	263	266	213	243	266	318	325	8	334	312	308	9	334	8
9	2	340	40	24	49	36	11	8	30	150	181	187	193	252	218	210	250	275	318	58	89	355	330	292	347	355	2
10	335	54	44	28	341	350	332	53	83	78	272	59	91	55	52	344	58	49	52	66	355	14	293	301	26	355	14
11	293	325	298	345	315	308	15	330	284	261	41	31	44	57	42	53	50	10	51	56	243	66	49	67	9	345	10
12	45	72	43	131	286	304	289	57	82	46	50	81	113	150	82	56	73	71	83	56	76	109	65	52	68	304	43
13	85	48	43	41	40	35	39	37	37	24	34	355	71	51	61	50	60	53	35	45	45	41	50	46	45	355	24
14	324	150	60	68	76	69	74	78	70	71	95	157	172	198	219	252	268	272	345	35	37	39	47	44	68	345	35
15	40	349	66	81	67	125	99	139	111	141	156	160	173	185	208	202	201	229	211	220	246	217	198	217	168	349	40
16	230	255	257	269	237	228	234	230	206	209	248	236	231	222	220	231	239	254	288	28	27	20	264	25	247	288	20
17	143	359	333	38	40	47	148	49	112	141	130	156	190	177	247	259	260	279	61	58	52	12	335	11	63	359	11
18	26	15	41	61	59	37	328	308	260	305	184	105	216	251	243	260	248	281	341	40	60	35	261	2	336	341	2
19	323	281	35	358	24	352	341	71	58	138	183	184	186	261	240	230	229	268	33	306	227	339	326	37	312	358	24
20	40	15	1	16	63	241	53	233	250	203	193	222	228	242	237	228	213	226	243	100	276	256	326	79	247	326	1
21	255	305	40	52	63	33	188	262	79	167	145	166	171	203	253	269	263	285	21	122	324	88	57	81	125	324	21
22	74	72	44	76	90	192	346	75	226	268	235	225	234	234	251	192	204	199	199	141	222	275	254	254	213	346	44
23	234	189	255	202	158	209	104	184	241	52	52	40	63	65	68	67	74	89	90	65	82	64	330	266	94	330	40
24	157	46	52	53	116	42	47	47	48	37	48	52	64	59	64	78	67	72	66	54	60	69	69	67	62	157	37
25	62	16	71	72	337	301	356	324	224	143	197	259	216	252	248	263	265	266	350	26	278	330	54	68	313	356	16
26	62	314	67	29	27	299	44	51	54	53	50	59	45	72	47	42	68	45	87	109	70	48	31	100	52	314	27
27	82	42	33	39	25	54	22	39	39	49	48	345	16	5	37	44	32	36	39	40	15	348	50	39	33	348	5
28	33	39	53	60	40	22	50	31	307	1	355	99	80	94	84	82	94	47	53	46	20	19	46	19	45	355	1
29	25	54	57	45	54	62	58	55	336	47	60	74	90	151	192	210	254	272	306	289	341	68	45	66	45	341	25
30	57	76	81	4	312	342	357	269	299	227	217	253	271	79	124	191	247	103	93	40	231	272	286	77	317	357	4
Avg	37	21	35	43	30	25	27	47	49	109	124	117	157	182	204	217	242	300	31	58	25	19	4	27	40	--	--
Max	335	359	352	358	348	358	357	340	339	339	355	355	271	337	345	344	268	285	350	325	355	355	359	337	--	359	--
Min	0	5	1	4	19	22	7	8	30	1	34	31	16	5	34	34	32	10	21	26	2	12	23	2	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Dec 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	269	295	359	12	308	302	44	215	161	212	144	127	268	267	267	252	283	333	350	31	360	329	307	307	360	12
2	279	342	40	37	29	339	292	335	234	190	176	228	278	237	271	237	277	289	337	2	299	13	3	306	304	342	2
3	40	21	58	288	11	28	66	277	210	130	146	155	172	198	198	203	215	344	41	53	68	66	55	82	82	344	11
4	27	318	38	37	268	106	104	113	183	195	224	245	246	250	250	247	148	247	287	276	281	273	201	193	238	318	27
5	191	217	350	228	193	296	260	15	256	246	247	262	256	243	237	235	241	259	266	109	261	331	41	47	256	350	15
6	18	32	32	22	42	54	52	79	85	102	163	147	141	241	218	234	244	282	279	37	52	26	70	30	55	282	18
7	251	18	343	2	5	11	43	287	228	187	187	162	216	201	223	235	228	294	78	285	110	192	204	197	234	343	2
8	187	192	190	165	154	202	242	282	285	265	238	245	246	233	212	218	237	248	259	246	209	147	323	250	228	323	147
9	277	291	38	45	27	115	298	293	55	171	199	17	80	46	7	41	48	25	296	234	260	213	100	252	3	298	7
10	270	281	256	291	290	273	309	40	42	43	50	41	38	34	72	63	81	57	57	54	64	51	20	63	28	309	20
11	314	69	59	55	29	55	58	35	28	45	20	11	336	358	56	33	30	104	187	271	69	56	51	50	39	358	11
12	295	98	92	58	89	37	48	62	63	89	92	80	105	78	56	51	68	54	337	31	59	340	18	352	55	352	18
13	293	6	331	9	271	350	47	311	65	149	169	218	245	252	253	246	255	281	331	278	333	25	263	10	301	350	6
14	0	26	271	358	78	39	251	280	74	161	81	70	44	110	105	29	116	15	306	360	240	177	240	85	47	360	0
15	340	27	60	56	40	59	54	294	270	148	170	100	114	150	15	302	295	319	308	75	352	237	93	23	29	352	15
16	65	49	63	71	62	39	323	28	72	72	229	181	156	184	251	56	93	327	25	10	42	1	26	34	47	327	1
17	71	311	309	32	34	50	68	61	69	71	67	68	70	65	60	109	163	60	39	62	17	42	49	47	55	311	17
18	351	47	337	332	1	49	43	74	97	77	343	38	60	67	69	100	67	73	291	348	44	138	285	235	38	351	1
19	158	111	160	100	98	119	115	117	127	132	151	177	191	195	187	200	213	235	109	248	202	196	157	156	160	248	98
20	134	176	87	108	130	221	216	66	80	70	184	184	167	193	242	257	239	267	221	253	223	251	249	195	195	267	66
21	184	241	245	232	232	237	239	240	236	203	228	233	234	247	244	252	253	31	343	319	19	290	2	33	255	343	2
22	356	7	39	20	33	34	1	50	53	137	208	204	175	225	244	253	251	271	322	20	37	7	345	49	0	356	1
23	36	51	63	49	82	93	74	350	205	197	251	283	50	78	68	58	42	77	53	56	32	31	353	346	48	353	31
24	29	22	46	39	2	20	52	37	321	43	59	60	110	99	112	108	126	16	46	33	34	260	49	30	47	321	2
25	39	45	48	49	58	250	42	67	74	56	120	62	37	47	47	83	93	84	80	56	50	49	50	48	59	250	37
26	46	47	47	49	54	54	46	34	43	50	42	49	51	42	69	78	58	49	69	82	335	254	17	56	48	335	17
27	249	39	76	57	45	50	290	320	36	44	40	39	37	49	56	41	11	359	40	325	174	168	209	57	36	359	11
28	274	297	324	325	81	234	295	252	262	232	120	82	72	142	192	190	217	278	356	46	116	69	305	34	282	356	34
29	50	143	36	45	27	6	44	53	335	170	198	227	225	233	203	339	10	125	204	240	108	242	154	248	164	339	6
30	236	318	280	265	339	287	286	314	274	217	229	243	245	242	275	271	246	282	22	324	277	303	346	356	283	356	22
31	346	46	69	18	354	51	54	321	245	202	249	228	29	90	87	81	139	89	67	67	56	57	31	48	52	354	18
Avg	344	16	27	28	36	28	13	7	56	137	175	152	126	176	198	230	199	340	354	1	30	356	15	30	26	--	--
Max	356	342	350	359	354	350	323	350	335	265	343	283	336	358	275	339	295	359	356	360	352	360	353	356	--	360	--
Min	0	6	32	2	1	6	1	15	28	43	20	11	29	34	7	29	10	15	22	2	17	1	2	10	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Oct 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	1.44	2.12	2.24	1.96	1.70	1.41	1.37	0.49	-0.56	-0.87	-1.39	-0.99	-1.19	-0.97	-0.87	-0.90	-0.71	-0.30	0.21	1.01	1.49	0.70	1.19	1.41	0.42	2.24	-1.39
2	1.08	1.01	1.58	1.96	1.42	1.40	0.77	-0.13	-0.79	-1.00	-1.20	-1.06	-1.15	-0.97	-0.96	-0.89	-0.63	-0.31	0.06	0.57	1.56	1.60	0.97	1.19	0.25	1.96	-1.20
3	1.19	0.77	0.95	1.32	0.91	0.84	1.08	-0.15	-1.31	-1.53	-1.36	-1.94	-1.75	-1.38	-1.24	-1.11	-0.63	-0.22	0.25	0.48	1.09	0.67	0.91	0.47	-0.07	1.32	-1.94
4	0.90	0.73	0.50	0.54	1.02	1.16	0.68	-0.43	-1.14	-0.99	-1.43	-1.05	-1.12	-1.13	-1.63	-0.98	-0.59	-0.25	0.03	0.16	0.86	0.89	0.15	0.07	-0.13	1.16	-1.63
5	0.08	0.07	0.08	0.07	0.07	0.11	0.16	-0.18	-0.89	-1.21	-1.41	-1.59	-1.54	-1.47	-1.36	-1.13	-0.73	-0.24	0.05	0.13	0.14	0.22	0.22	0.20	-0.42	0.22	-1.59
6	0.25	0.39	0.25	0.33	0.34	0.48	0.56	-0.02	-0.62	-1.11	-1.19	-1.42	-1.62	-1.22	-1.42	-1.05	-0.79	-0.07	0.32	0.31	0.53	0.52	0.53	0.40	-0.22	0.56	-1.62
7	0.54	0.84	0.70	0.44	0.27	0.42	0.23	-0.01	-0.50	-0.96	-1.16	-1.45	-1.66	-1.50	-1.57	-1.20	-0.22	-0.02	0.36	1.40	0.85	0.61	0.83	1.40	-0.06	1.40	-1.66
8	1.31	1.51	1.92	0.89	0.59	0.88	1.61	0.29	-1.12	-1.61	-2.17	-1.60	-1.82	-1.54	-1.34	-1.45	-1.03	-0.33	0.32	0.59	0.49	0.66	0.72	0.68	-0.07	1.92	-2.17
9	1.01	0.98	1.08	0.88	0.64	0.67	0.80	0.64	-0.91	-1.43	-1.81	-2.23	-2.23	-1.77	-1.62	-1.23	-0.59	-0.22	-0.13	-0.14	-0.08	-0.07	-0.14	-0.13	-0.33	1.08	-2.23
10	-0.19	-0.33	-0.45	-0.42	-0.29	-0.36	-0.37	-0.36	-0.43	-0.42	-0.46	-0.78	-1.02	-1.05	-1.02	-1.23	-0.91	-0.62	-0.06	0.30	0.37	0.32	0.51	0.52	-0.36	0.52	-1.23
11	0.66	0.46	0.88	0.73	0.36	0.40	0.42	-0.04	-0.93	-0.83	-1.20	-1.37	-1.57	-1.36	-1.17	-1.31	-0.75	-0.26	0.02	0.45	0.72	1.48	1.42	1.38	-0.06	1.48	-1.57
12	1.15	1.51	1.41	1.53	0.75	0.56	0.73	0.58	-0.54	-1.03	-1.55	-2.03	-2.23	-1.73	-0.95	-0.89	-0.60	-0.23	0.08	0.74	1.51	0.80	0.90	1.20	0.07	1.53	-2.23
13	0.97	1.21	1.15	1.34	1.19	0.79	0.82	0.62	-0.99	-1.66	-1.92	-2.32	-2.12	-1.94	-1.14	-1.22	-0.91	-0.25	0.23	0.90	1.20	1.38	1.39	1.51	0.01	1.51	-2.32
14	1.04	1.96	1.65	1.62	1.49	1.11	1.03	0.41	-1.06	-0.94	-1.12	-1.60	-0.96	-0.92	-0.98	-0.80	-0.60	-0.19	0.30	0.58	0.82	0.67	0.77	1.34	0.23	1.96	-1.60
15	0.55	0.61	0.74	0.56	0.57	0.60	0.55	0.43	-0.84	-1.05	-0.79	-0.90	-0.99	-0.84	-0.94	-0.88	-0.54	-0.21	0.15	0.41	0.73	1.07	1.08	1.35	0.06	1.35	-1.05
16	1.65	1.28	0.82	0.47	0.62	0.93	0.76	0.12	-0.58	-0.85	-1.60	-1.59	-1.15	-1.43	-1.05	-0.79	-0.57	-0.22	0.07	0.41	1.18	0.93	1.26	1.07	0.07	1.65	-1.60
17	1.40	1.26	0.63	0.53	0.45	0.48	0.56	0.19	-1.01	-0.93	-1.39	-1.63	-1.31	-1.13	-1.25	-0.75	-0.55	-0.15	0.06	0.59	1.16	1.67	1.07	1.66	0.07	1.67	-1.63
18	2.20	0.99	1.44	2.11	1.77	1.77	1.48	0.63	-0.59	-0.77	-0.95	-0.82	-1.12	-0.77	-0.92	-0.88	-0.44	-0.07	0.29	1.17	1.75	1.27	1.51	1.02	0.50	2.20	-1.12
19	0.93	1.19	1.02	1.17	0.81	1.82	1.38	0.75	-0.26	-1.19	-1.05	-1.39	-0.83	-1.40	-1.45	-1.07	-0.50	-0.07	0.32	1.30	1.71	1.48	1.65	1.71	0.33	1.82	-1.45
20	2.50	1.83	2.37	1.11	1.08	1.36	1.42	0.57	-0.95	-0.87	-1.35	-1.37	-0.85	-0.97	-0.86	-0.73	-0.58	-0.09	0.17	0.98	1.65	1.83	1.53	1.87	0.49	2.50	-1.37
21	2.37	2.12	1.69	2.07	1.63	1.90	1.92	0.87	-1.06	-1.26	-1.29	-1.10	-1.40	-0.96	-0.64	-0.75	-0.45	0.05	0.62	1.85	1.39	1.03	1.62	1.40	0.57	2.37	-1.40
22	1.55	1.12	0.84	0.73	0.52	0.39	0.28	0.30	-0.25	-0.77	-1.08	-1.38	-1.57	-1.39	-1.28	-1.31	-0.63	0.09	0.26	0.35	0.38	0.38	0.25	0.24	-0.08	1.55	-1.57
23	0.22	0.16	0.16	0.25	0.18	0.21	0.19	0.11	-0.37	-0.76	-1.11	-1.44	-1.40	-1.53	-1.40	-1.19	-0.78	0.10	0.38	0.26	0.36	0.66	0.45	0.38	-0.25	0.66	-1.53
24	0.27	0.29	0.32	0.29	0.23	0.22	0.48	0.02	-0.43	-0.97	-1.42	-1.52	-1.71	-1.68	-0.83	-0.48	-0.15	0.07	0.77	1.54	0.94	1.28	1.75	1.98	0.05	1.98	-1.71
25	2.75	1.85	2.08	2.05	2.36	2.24	1.84	1.27	-0.25	-0.68	-0.83	-0.80	-0.93	-0.95	-0.80	-0.66	-0.42	0.06	0.28	1.26	1.48	1.69	0.84	1.44	0.72	2.75	-0.95
26	0.89	0.70	0.73	0.66	0.64	0.61	0.46	0.20	-0.71	-1.13	-1.36	-1.62	-1.44	-1.41	-1.13	-0.76	-0.45	0.13	0.92	1.05	1.23	0.66	0.52	0.41	-0.01	1.23	-1.62
27	0.33	0.23	0.15	0.15	0.17	0.15	0.10	0.03	-0.50	-0.80	-1.24	-1.73	-1.93	-1.57	-1.50	-0.84	-0.51	0.02	0.27	1.31	1.53	2.03	2.35	1.53	-0.01	2.35	-1.93
28	0.99	0.40	0.50	0.53	0.44	0.39	0.31	0.06	-0.39	-0.90	-1.56	-1.98	-1.71	-1.74	-1.04	-0.78	-0.33	-0.15	-0.06	-0.03	0.11	0.11	0.15	0.14	-0.27	0.99	-1.98
29	0.19	0.25	0.35	0.46	1.35	1.53	1.19	0.99	-0.62	-1.65	-2.05	-1.63	-1.26	-1.35	-0.47	-0.41	-0.30	-0.24	0.04	0.28	0.33	0.67	0.90	0.79	-0.03	1.53	-2.05
30	0.83	0.68	1.23	0.55	1.06	0.83	1.04	0.14	-0.82	-0.53	-0.64	-0.96	-1.04	-1.35	-1.05	-0.84	-0.55	-0.08	0.13	0.28	0.63	1.12	0.86	1.08	0.11	1.23	-1.35
31	1.06	0.99	1.10	0.82	0.45	0.30	0.33	0.12	-0.92	-0.61	-1.43	-1.48	-0.81	-1.26	-0.66	-0.69	-0.38	-0.07	0.10	0.90	1.46	1.70	1.32	1.29	0.15	1.70	-1.48
Avg	1.04	0.94	0.97	0.89	0.80	0.83	0.78	0.27	-0.72	-1.01	-1.31	-1.44	-1.40	-1.31	-1.11	-0.94	-0.57	-0.14	0.22	0.69	0.95	0.97	0.95	1.00	0.06	--	--
Max	2.75	2.12	2.37	2.11	2.36	2.24	1.92	1.27	-0.25	-0.42	-0.46	-0.78	-0.81	-0.77	-0.47	-0.41	-0.15	0.13	0.92	1.85	1.75	2.03	2.35	1.98	--	2.75	--
Min	-0.19	-0.33	-0.45	-0.42	-0.29	-0.36	-0.37	-0.43	-1.31	-1.66	-2.17	-2.32	-2.23	-1.94	-1.63	-1.45	-1.03	-0.62	-0.13	-0.14	-0.08	-0.07	-0.14	-0.13	--	--	-2.32

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Nov 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	1.51	1.81	1.56	1.49	0.99	1.83	1.25	0.42	-0.87	-0.41	-0.69	-1.41	-0.96	-1.18	-0.84	-0.70	-0.33	0.10	0.51	1.20	1.14	1.35	0.64	1.26	0.40	1.83	-1.41
2	0.67	0.37	0.65	0.52	0.34	0.24	0.28	0.15	-0.49	-0.72	-1.03	-1.11	-1.10	-1.27	-1.06	-0.61	-0.40	0.23	0.31	0.56	0.36	0.51	0.23	0.16	-0.09	0.67	-1.27
3	0.21	0.32	0.31	0.09	-0.02	-0.02	0.08	-0.06	-0.49	-1.28	-1.69	-1.87	-1.72	-1.61	-0.93	-0.85	-0.43	0.00	0.13	0.45	1.26	0.88	1.12	1.34	-0.20	1.34	-1.87
4	1.13	1.10	1.05	0.55	0.41	0.33	0.18	0.37	-0.88	-1.53	-1.86	-2.03	-2.20	-1.84	-1.56	-0.65	-0.29	-0.11	0.10	-0.02	-0.13	-0.04	-0.05	-0.01	-0.33	1.13	-2.20
5	0.09	0.14	0.43	0.33	0.30	0.39	0.54	-0.26	-0.55	-0.58	-0.60	-0.71	-1.19	-0.95	-0.84	-1.27	-0.54	-0.22	-0.05	0.60	0.53	0.27	0.32	0.35	-0.14	0.60	-1.27
6	0.24	0.17	0.28	0.62	0.69	0.77	0.77	0.78	-0.23	-0.54	-1.21	-1.32	-1.44	-1.16	-0.98	-0.79	-0.23	0.16	0.38	0.36	0.37	0.39	0.33	0.32	-0.05	0.78	-1.44
7	0.26	0.32	0.35	0.26	0.30	0.16	0.16	0.17	-0.24	-0.39	-0.98	-1.16	-1.13	-1.20	-1.21	-0.76	-0.22	0.14	0.25	0.22	0.19	0.21	0.17	0.14	-0.17	0.35	-1.21
8	0.13	0.13	0.17	0.28	0.28	0.19	0.22	0.17	-0.50	-0.60	-1.03	-1.32	-0.83	-0.72	-0.75	-1.12	-0.35	0.08	0.30	1.12	1.20	1.55	1.52	1.47	0.07	1.55	-1.32
9	1.83	1.56	1.95	0.97	0.60	0.78	0.91	1.24	-0.46	-0.96	-0.99	-0.97	-1.34	-0.69	-0.94	-1.16	-0.17	0.13	0.65	1.50	0.68	1.13	1.29	1.77	0.39	1.95	-1.34
10	1.95	1.32	0.58	0.64	1.45	1.05	0.97	0.38	0.10	-0.36	-0.33	-0.83	-1.18	-0.98	-1.09	-0.53	-0.10	0.14	0.25	0.48	0.72	0.68	0.99	1.34	0.32	1.95	-1.18
11	1.07	1.59	1.12	1.01	1.24	1.38	0.44	0.71	-0.12	-0.60	-1.14	-1.12	-1.42	-1.38	-0.90	-0.76	-0.19	0.40	0.64	0.50	0.64	0.58	0.53	0.49	0.20	1.59	-1.42
12	0.43	0.50	0.68	0.58	0.58	0.55	0.50	0.27	-0.41	-0.63	-0.98	-1.05	-1.26	-1.29	-0.78	-0.49	-0.24	0.04	0.09	0.08	0.09	0.05	0.03	0.04	-0.11	0.68	-1.29
13	0.02	-0.01	-0.02	-0.04	-0.03	0.02	0.02	0.01	-0.43	-0.57	-0.94	-0.86	-1.27	-1.34	-1.03	-0.89	-0.38	-0.05	0.01	0.04	0.05	0.07	0.10	0.09	-0.31	0.10	-1.34
14	0.05	0.09	0.13	0.08	0.16	0.23	0.26	0.19	-0.76	-1.15	-0.94	-1.57	-1.80	-1.39	-0.82	-0.52	-0.34	0.09	0.52	1.31	0.81	0.79	0.96	1.26	-0.10	1.31	-1.80
15	1.17	1.48	0.57	0.41	0.46	0.49	0.47	0.14	-0.13	-0.54	-1.12	-1.61	-1.40	-1.23	-0.72	-0.54	0.04	0.15	0.20	0.36	0.20	0.21	0.09	0.00	-0.04	1.48	-1.61
16	-0.01	-0.04	-0.07	-0.04	-0.05	-0.07	-0.07	-0.14	-0.36	-0.59	-0.56	-0.66	-0.85	-0.86	-1.06	-0.65	-0.32	0.00	0.25	0.49	1.70	0.91	0.39	0.46	-0.09	1.70	-1.06
17	0.56	1.22	0.95	0.64	0.53	0.62	0.69	0.62	-0.31	-0.62	-1.25	-1.66	-1.29	-1.11	-0.71	-0.58	-0.32	-0.05	0.38	0.42	0.45	0.41	0.45	0.58	0.03	1.22	-1.66
18	0.95	0.74	0.57	0.39	0.38	0.54	0.49	0.47	0.18	-0.30	-0.70	-1.36	-1.06	-0.83	-0.50	-0.45	-0.25	0.06	0.31	1.14	0.47	1.75	0.98	1.70	0.24	1.75	-1.36
19	1.35	1.23	1.54	1.84	1.49	0.76	0.90	0.45	-0.38	-0.90	-1.01	-1.78	-1.63	-0.74	-0.63	-0.72	-0.44	0.04	0.19	0.35	0.57	0.75	1.13	1.31	0.24	1.84	-1.78
20	1.11	1.10	0.92	0.86	0.49	0.28	0.25	0.16	-0.14	-0.55	-0.68	-0.82	-0.98	-0.53	-0.56	-0.48	-0.39	-0.18	-0.07	-0.30	0.00	0.02	-0.20	-0.11	-0.03	1.11	-0.98
21	0.42	0.49	0.76	0.28	0.12	0.20	0.26	0.24	-0.20	-0.39	-0.74	-1.27	-1.48	-1.05	-0.42	-0.35	-0.18	0.02	-0.01	-0.05	0.19	0.32	0.22	0.14	-0.10	0.76	-1.48
22	0.32	0.22	0.20	0.28	0.35	0.16	-0.03	0.17	-0.08	-0.21	-0.24	-0.29	-0.26	-0.27	-0.27	-0.38	-0.35	-0.28	-0.24	-0.26	-0.22	-0.16	-0.20	-0.19	-0.09	0.35	-0.38
23	-0.21	-0.25	-0.09	-0.20	0.01	0.01	0.08	0.06	-0.03	0.08	0.06	0.03	0.04	0.04	-0.10	-0.20	-0.03	0.05	0.03	0.12	0.11	0.02	0.06	0.05	-0.01	0.12	-0.25
24	0.03	0.02	0.00	0.00	0.02	0.08	0.05	0.04	-0.03	-0.18	-0.13	0.00	0.00	-0.27	-0.39	-0.32	-0.05	0.14	0.26	0.33	0.29	0.31	0.28	0.28	0.03	0.33	-0.39
25	0.33	0.52	0.33	0.30	0.47	0.63	0.94	0.71	-0.07	-0.69	-0.49	-0.52	-1.00	-0.43	-0.39	-0.38	-0.26	0.05	0.47	0.52	0.37	0.47	0.46	0.36	0.11	0.94	-1.00
26	0.53	0.55	0.37	0.45	0.39	0.34	0.28	0.23	-0.25	-0.75	-1.08	-1.27	-1.06	-1.13	-0.78	-0.42	-0.06	0.20	0.24	0.32	0.28	0.23	0.21	0.17	-0.08	0.55	-1.27
27	0.14	0.17	0.17	0.14	0.13	0.11	0.13	0.07	-0.05	-0.23	-0.29	-0.29	-0.34	-0.38	-0.38	-0.32	-0.04	0.08	0.17	0.18	0.19	0.21	0.13	0.15	-0.01	0.21	-0.38
28	0.17	0.15	0.23	0.30	0.29	0.20	0.25	0.15	-0.07	-0.24	-0.52	-0.58	-0.85	-1.01	-0.76	-0.46	-0.12	0.10	0.21	0.24	0.19	0.17	0.15	0.14	-0.07	0.30	-1.01
29	0.12	0.14	0.16	0.17	0.21	0.19	0.14	0.13	-0.08	-0.37	-0.72	-0.99	-1.33	-1.55	-0.99	-0.82	-0.23	0.19	0.99	0.62	0.68	0.86	1.51	1.22	0.01	1.51	-1.55
30	1.15	1.02	0.95	0.90	1.25	2.06	1.32	1.04	0.41	-0.15	-0.29	-0.28	-0.41	-0.49	-0.60	-0.41	-0.09	0.11	0.34	0.71	0.47	0.79	0.62	0.69	0.46	2.06	-0.60
Avg	0.59	0.61	0.56	0.47	0.46	0.48	0.42	0.30	-0.26	-0.57	-0.81	-1.02	-1.09	-0.96	-0.77	-0.62	-0.24	0.06	0.26	0.45	0.46	0.52	0.48	0.57	0.02	--	--
Max	1.95	1.81	1.95	1.84	1.49	2.06	1.32	1.24	0.41	0.08	0.06	0.03	0.04	0.04	-0.10	-0.20	0.04	0.40	0.99	1.50	1.70	1.75	1.52	1.77	--	2.06	--
Min	-0.21	-0.25	-0.09	-0.20	-0.05	-0.07	-0.07	-0.26	-0.88	-1.53	-1.86	-2.03	-2.20	-1.84	-1.56	-1.27	-0.54	-0.28	-0.24	-0.30	-0.22	-0.16	-0.20	-0.19	--	--	-2.20

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Dec 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	1.12	1.18	1.24	0.89	1.04	1.38	0.98	0.59	0.15	-0.69	-0.84	-1.23	-1.22	-0.48	-0.50	-0.39	-0.21	0.13	0.73	1.09	1.45	1.49	0.99	1.14	0.42	1.49	-1.23
2	0.95	1.34	0.96	0.74	0.86	1.90	1.44	1.57	0.46	-0.43	-0.81	-0.64	-0.50	-0.47	-0.41	-0.43	-0.34	0.00	0.40	1.07	1.01	0.98	0.99	0.97	0.48	1.90	-0.81
3	1.56	1.17	1.58	1.22	1.29	1.53	1.33	1.10	0.16	-0.68	-1.33	-1.63	-1.56	-1.66	-1.49	-1.10	-0.37	0.54	1.58	1.25	1.05	0.76	0.98	0.64	0.33	1.58	-1.66
4	0.54	0.75	1.73	1.46	0.88	0.54	0.53	0.41	-0.11	-0.57	-0.41	-0.20	-0.26	-0.28	-0.26	-0.27	-0.36	-0.16	-0.14	-0.13	-0.13	-0.06	-0.18	-0.21	0.13	1.73	-0.57
5	-0.28	-0.18	-0.28	-0.22	-0.34	-0.29	0.03	-0.30	-0.21	-0.43	-0.54	-0.58	-0.60	-0.77	-0.77	-0.73	-0.39	-0.14	0.06	0.22	0.39	0.81	1.34	1.53	-0.11	1.53	-0.77
6	1.37	1.47	1.29	1.64	1.26	0.97	0.44	0.43	-0.31	-1.08	-0.95	-1.17	-1.23	-0.94	-0.84	-0.71	-0.40	-0.10	0.25	0.75	0.60	1.08	0.67	1.39	0.25	1.64	-1.23
7	0.94	1.33	1.18	1.77	1.40	1.76	1.02	0.77	0.04	-0.59	-0.92	-1.61	-0.99	-1.77	-1.16	-0.68	-0.48	-0.09	-0.09	-0.11	-0.03	-0.08	-0.10	-0.15	0.06	1.77	-1.77
8	-0.17	-0.09	-0.07	-0.10	-0.11	-0.06	-0.02	-0.04	-0.14	-0.24	-0.37	-0.52	-0.50	-0.62	-1.19	-0.79	-0.29	-0.07	-0.05	-0.09	-0.17	-0.15	0.19	-0.04	-0.24	0.19	-1.19
9	-0.05	0.31	1.17	1.20	1.45	0.74	0.75	0.80	-0.21	-0.72	-0.83	-1.07	-1.18	-0.99	-0.91	-0.67	-0.28	0.05	0.11	0.28	0.32	0.39	0.34	0.50	0.06	1.45	-1.18
10	0.35	0.56	0.52	0.27	0.32	0.48	0.36	0.24	0.07	-0.21	-0.39	-0.46	-0.50	-0.43	-0.54	-0.31	-0.12	0.09	0.25	0.36	0.29	0.18	0.19	0.18	0.07	0.56	-0.54
11	0.16	0.16	0.23	0.15	0.16	0.28	0.29	0.16	-0.02	-0.26	-0.45	-0.56	-0.51	-0.67	-0.60	-0.39	-0.11	0.11	0.16	0.25	0.25	0.19	0.20	0.17	-0.03	0.29	-0.67
12	0.22	0.16	0.16	0.16	0.13	0.15	0.14	0.17	-0.09	-0.44	-0.70	-0.83	-0.90	-0.83	-0.50	-0.22	-0.05	0.08	0.25	0.79	0.60	0.52	0.84	0.81	0.03	0.84	-0.90
13	1.07	1.19	1.39	0.96	0.88	1.11	1.04	0.90	-0.08	-0.60	-0.80	-0.82	-0.63	-0.57	-0.59	-0.51	-0.35	-0.03	0.30	0.59	0.81	1.05	0.79	1.53	0.36	1.53	-0.82
14	1.07	0.81	1.02	1.29	1.36	0.95	0.47	0.45	0.00	-0.60	-0.80	-0.87	-0.86	-0.83	-0.71	-0.48	-0.22	0.14	0.33	0.20	0.49	0.69	0.60	0.85	0.22	1.36	-0.87
15	0.33	0.26	0.26	0.26	0.22	0.24	0.45	0.69	0.33	-0.58	-0.95	-0.98	-0.91	-1.00	-0.70	-0.53	-0.38	0.13	0.52	0.59	0.49	0.55	0.46	0.34	0.00	0.69	-1.00
16	0.38	0.46	0.30	0.37	0.47	0.56	0.88	0.97	0.07	-0.52	-0.86	-1.12	-1.43	-1.02	-0.43	-0.33	0.13	0.74	1.44	0.98	0.70	1.59	0.94	1.08	0.26	1.59	-1.43
17	0.57	0.83	1.13	0.62	0.48	0.40	0.49	0.43	0.06	-0.55	-0.96	-0.87	-0.84	-0.72	-0.51	-0.37	-0.17	0.32	0.43	0.48	0.49	0.31	0.67	0.41	0.13	1.13	-0.96
18	0.25	0.30	0.32	0.40	0.31	0.27	0.18	0.12	0.05	-0.02	-0.31	-0.49	-0.44	-0.67	-0.80	-0.45	-0.02	0.33	0.74	0.79	0.91	0.67	1.02	1.38	0.20	1.38	-0.80
19	1.48	0.72	0.54	0.83	0.95	0.68	0.61	0.52	-0.07	-0.78	-1.30	-1.74	-1.68	-1.51	-1.56	-1.07	-0.40	-0.01	0.19	0.06	-0.23	-0.26	-0.30	-0.30	-0.19	1.48	-1.74
20	-0.27	-0.28	-0.07	-0.03	-0.03	-0.13	-0.22	0.04	0.12	-0.18	-0.69	-0.83	-0.74	-0.86	-0.40	-0.25	-0.31	-0.17	-0.19	-0.14	-0.21	-0.17	-0.20	-0.29	-0.27	0.12	-0.86
21	-0.27	-0.15	-0.14	-0.14	-0.14	-0.14	-0.14	-0.12	-0.15	-0.37	-0.28	-0.30	-0.37	-0.28	-0.33	-0.24	-0.21	0.14	0.48	0.60	0.35	0.88	1.15	0.93	0.03	1.15	-0.37
22	1.05	1.37	1.72	1.59	1.28	0.93	0.77	0.67	0.17	-0.53	-0.56	-0.86	-1.10	-0.68	-0.44	-0.35	-0.25	-0.01	0.39	0.97	0.72	0.94	0.76	0.55	0.38	1.72	-1.10
23	0.56	0.57	0.50	0.40	0.39	0.45	0.49	0.43	0.12	-0.24	-0.35	-0.64	-0.77	-0.78	-0.67	-0.45	-0.12	0.25	0.42	0.42	0.44	0.42	0.43	0.47	0.11	0.57	-0.78
24	0.47	0.41	0.49	0.48	0.48	0.57	0.36	0.45	0.22	-0.44	-0.92	-0.76	-0.84	-0.94	-0.97	-0.61	-0.26	0.36	0.88	1.30	0.64	0.69	0.49	0.37	0.12	1.30	-0.97
25	0.38	0.34	0.30	0.29	0.29	0.43	0.35	0.14	-0.04	-0.38	-0.77	-1.00	-0.84	-0.69	-0.69	-0.48	-0.16	0.40	0.50	0.23	0.20	0.20	0.19	0.18	-0.03	0.50	-1.00
26	0.18	0.16	0.15	0.13	0.21	0.19	0.20	0.25	0.01	-0.39	-0.59	-0.85	-0.90	-0.90	-0.71	-0.57	-0.11	0.17	0.34	0.33	0.84	0.74	0.57	0.57	0.00	0.84	-0.90
27	0.56	0.65	0.29	0.29	0.33	0.33	0.50	0.34	0.11	-0.38	-0.71	-0.85	-0.97	-0.80	-0.74	-0.48	-0.18	0.13	0.24	0.40	0.56	0.56	0.57	1.19	0.08	1.19	-0.97
28	1.12	1.07	1.50	1.47	0.43	0.70	0.79	0.57	0.29	-0.19	-0.62	-0.86	-0.93	-1.05	-1.04	-0.91	-0.36	0.05	0.51	0.48	0.44	0.40	0.74	1.02	0.23	1.50	-1.05
29	0.63	0.49	0.55	0.51	1.14	1.33	0.50	0.44	0.26	-0.68	-0.84	-0.81	-0.98	-0.76	-0.76	-0.58	-0.29	0.19	0.59	0.30	0.33	0.43	0.47	0.56	0.13	1.33	-0.98
30	0.55	1.30	0.84	1.12	0.89	0.86	1.17	1.17	0.75	-0.33	-0.63	-0.69	-0.55	-0.77	-0.54	-0.43	-0.23	0.12	0.78	1.43	1.12	1.17	1.72	1.25	0.50	1.72	-0.77
31	1.29	1.37	0.77	0.60	0.66	0.71	0.60	0.53	0.69	-0.39	-0.33	-0.55	-0.69	-0.87	-0.88	-0.73	-0.48	0.34	0.48	0.44	0.60	0.81	1.44	0.66	0.30	1.44	-0.88
Avg	0.58	0.65	0.70	0.66	0.61	0.64	0.54	0.48	0.09	-0.47	-0.70	-0.85	-0.85	-0.83	-0.73	-0.53	-0.25	0.13	0.42	0.52	0.50	0.57	0.61	0.64	0.13	--	--
Max	1.56	1.47	1.73	1.77	1.45	1.90	1.44	1.57	0.75	-0.02	-0.28	-0.20	-0.26	-0.28	-0.26	-0.22	0.13	0.74	1.58	1.43	1.45	1.59	1.72	1.53	--	1.90	--
Min	-0.28	-0.28	-0.28	-0.22	-0.34	-0.29	-0.22	-0.30	-0.31	-1.08	-1.33	-1.74	-1.68	-1.77	-1.56	-1.10	-0.48	-0.17	-0.19	-0.14	-0.23	-0.26	-0.30	-0.30	--	--	-1.77

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Oct 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	21.0	21.1	21.0	20.5	20.2	20.4	19.6	21.5	24.3	26.4	28.4	28.9	29.6	29.9	29.9	30.0	29.7	28.7	27.3	25.9	24.8	24.5	23.3	23.0	25.0	30.0	19.6
2	22.2	21.5	21.3	20.8	20.1	19.7	19.9	21.4	24.2	26.0	27.1	27.4	28.3	28.7	29.0	29.1	28.7	27.8	26.5	25.4	24.4	23.5	23.2	22.8	24.5	29.1	19.7
3	23.0	22.1	21.6	20.4	19.7	19.4	19.6	21.2	24.0	25.4	26.7	28.1	28.7	28.7	29.0	29.3	28.8	27.8	26.0	24.8	23.9	23.3	22.2	21.8	24.4	29.3	19.4
4	21.1	20.5	20.1	19.7	18.5	17.8	18.2	19.9	22.2	23.6	25.1	25.4	26.1	26.3	27.2	26.5	25.8	24.7	23.3	22.3	21.0	20.5	20.5	19.7	22.3	27.2	17.8
5	19.0	18.5	18.2	17.4	16.8	16.7	17.4	18.4	19.4	20.6	21.4	22.8	24.3	25.2	25.9	25.8	25.0	23.9	22.4	21.7	21.0	20.5	20.5	21.2	21.0	25.9	16.7
6	20.1	19.6	20.0	20.1	18.3	16.7	17.6	21.3	22.3	23.5	24.1	25.5	27.3	28.3	29.7	29.4	29.4	28.1	26.5	25.3	23.9	23.6	23.4	23.6	23.7	29.7	16.7
7	23.7	22.1	22.1	22.8	22.3	21.2	22.6	23.0	24.4	26.3	27.7	29.2	31.1	31.4	31.7	31.6	29.7	28.7	27.7	26.1	25.9	25.5	24.1	23.5	26.0	31.7	21.2
8	22.5	22.5	21.6	22.5	22.8	20.8	19.9	22.1	25.4	27.2	28.7	28.6	29.3	29.3	29.5	29.6	28.8	27.3	25.2	24.6	24.1	23.4	22.3	21.3	25.0	29.6	19.9
9	20.6	20.7	20.6	20.3	20.8	20.2	18.9	19.9	23.4	25.1	26.9	28.3	29.0	28.9	29.3	29.0	27.1	24.9	23.3	22.0	20.7	19.4	18.6	17.6	23.1	29.3	17.6
10	16.5	16.1	16.1	15.9	14.9	14.1	13.7	10.0	9.9	10.3	10.8	11.9	13.9	15.0	15.5	16.1	16.0	15.6	14.8	13.9	13.6	12.9	12.9	13.0	13.9	16.5	9.9
11	12.1	12.4	11.7	11.5	11.9	11.6	11.7	12.4	15.2	16.8	18.8	20.0	21.0	21.1	21.5	22.1	21.4	20.3	19.1	17.8	16.8	16.0	15.6	15.1	16.4	22.1	11.5
12	15.6	15.6	15.7	15.2	15.9	16.4	15.8	17.4	20.6	22.5	24.3	25.9	26.7	26.9	26.4	25.9	25.4	24.3	22.9	21.7	20.4	20.4	19.8	18.7	20.9	26.9	15.2
13	19.0	18.5	18.0	17.9	17.4	17.6	17.5	18.1	21.8	23.8	24.7	26.1	26.4	26.7	26.0	26.5	26.1	24.5	22.8	21.0	20.3	20.0	19.3	18.6	21.6	26.7	17.4
14	18.2	17.2	16.6	16.1	15.7	15.4	15.5	16.0	19.4	20.8	21.9	23.4	23.6	24.1	24.1	24.1	23.5	22.3	20.8	20.4	18.9	17.8	17.5	17.1	19.6	24.1	15.4
15	18.1	17.7	17.3	16.7	17.3	16.8	16.3	17.0	19.5	21.9	22.6	23.3	23.7	23.8	24.1	23.8	23.1	21.9	20.5	19.7	18.5	17.6	17.1	16.4	19.8	24.1	16.3
16	15.7	15.8	15.3	15.7	14.3	13.7	14.5	16.0	17.8	19.7	21.6	22.4	22.9	23.9	23.9	23.7	23.1	21.9	20.2	19.3	18.0	17.1	16.5	15.7	18.7	23.9	13.7
17	15.6	15.3	16.0	16.1	15.9	15.4	14.8	15.5	18.5	20.1	22.1	23.3	23.5	23.8	24.3	23.9	23.3	21.9	20.4	19.5	18.4	17.6	17.2	16.4	19.1	24.3	14.8
18	16.4	15.8	15.5	15.2	15.1	14.6	14.2	15.7	18.8	21.0	22.8	23.7	24.8	24.8	25.4	25.3	24.3	23.0	21.8	19.9	18.9	18.4	17.8	18.2	19.6	25.4	14.2
19	17.8	17.5	17.1	16.8	17.7	16.1	16.0	17.4	20.1	23.2	24.0	25.4	25.8	27.2	27.8	27.4	26.3	24.7	23.2	21.3	20.2	19.3	18.9	18.0	21.2	27.8	16.0
20	17.9	17.4	17.2	18.3	17.0	16.0	15.4	16.1	20.4	22.0	23.7	24.9	25.1	25.5	25.5	25.5	25.2	23.8	22.3	20.7	19.4	18.9	18.6	17.9	20.6	25.5	15.4
21	18.0	17.7	17.3	17.0	16.5	16.0	15.5	17.3	21.3	23.0	24.6	25.3	26.8	26.9	26.6	26.7	26.0	24.7	23.1	21.3	21.0	19.9	19.6	19.8	21.3	26.9	15.5
22	20.2	21.0	20.5	19.9	21.4	21.1	20.2	19.6	22.2	23.5	24.9	26.6	27.7	28.6	29.2	29.4	28.7	27.1	26.0	25.3	24.8	24.4	24.0	23.9	24.2	29.4	19.6
23	23.4	22.9	22.3	21.8	22.1	22.5	22.2	22.4	23.5	24.8	26.6	28.1	29.2	30.5	30.7	30.7	30.1	28.6	27.3	26.6	26.2	24.7	24.9	24.9	25.7	30.7	21.8
24	25.0	24.3	23.5	23.0	22.5	21.9	21.4	22.6	24.1	26.0	27.6	28.6	29.9	30.2	29.1	28.1	26.7	25.9	24.7	23.7	23.2	21.6	20.7	20.2	24.8	30.2	20.2
25	19.5	19.1	18.8	18.5	17.8	17.7	17.9	17.9	21.1	23.3	25.0	25.6	26.3	26.7	26.7	26.6	25.8	24.3	23.3	21.7	20.9	20.1	20.0	19.6	21.8	26.7	17.7
26	20.7	20.6	20.2	19.3	18.9	19.2	20.9	20.9	22.5	23.9	25.2	26.3	27.4	28.1	28.5	28.2	27.7	25.9	24.5	23.1	22.5	23.6	23.2	23.3	23.5	28.5	18.9
27	23.6	23.4	22.5	21.9	21.5	21.4	21.1	21.4	22.7	23.9	25.4	27.4	28.8	29.3	29.7	28.6	27.4	25.8	23.9	22.2	21.6	20.5	20.1	20.3	23.9	29.7	20.1
28	20.3	20.4	20.0	19.2	18.6	18.6	18.7	18.9	20.1	21.9	23.0	24.1	24.5	25.1	24.3	23.7	22.9	22.3	21.4	20.4	19.8	19.7	19.6	19.3	21.1	25.1	18.6
29	18.9	18.2	17.6	16.9	15.7	15.2	14.9	15.2	18.1	21.1	22.5	22.7	22.6	22.7	19.9	18.6	17.3	16.4	15.7	15.1	14.5	13.9	13.3	13.1	17.5	22.7	13.1
30	12.8	12.5	12.0	11.2	11.0	10.7	10.4	10.7	13.7	14.1	14.6	15.7	16.4	17.4	17.4	17.3	17.0	15.8	15.0	14.7	13.8	13.3	12.5	11.9	13.8	17.4	10.4
31	11.6	11.6	10.9	11.4	12.1	12.4	12.1	12.2	13.8	15.6	18.1	19.4	19.2	20.1	19.8	20.0	19.3	17.9	16.8	15.5	14.5	14.0	13.5	12.9	15.2	20.1	10.9
Avg	19.0	18.7	18.3	18.1	17.8	17.3	17.2	18.0	20.5	22.2	23.6	24.7	25.5	26.0	26.0	25.9	25.1	23.9	22.5	21.4	20.5	19.9	19.4	19.0	21.3	--	--
Max	25.0	24.3	23.5	23.0	22.8	22.5	22.6	23.0	25.4	27.2	28.7	29.2	31.1	31.4	31.7	31.6	30.1	28.7	27.7	26.6	26.2	25.5	24.9	24.9	--	31.7	--
Min	11.6	11.6	10.9	11.2	11.0	10.7	10.4	10.0	9.9	10.3	10.8	11.9	13.9	15.0	15.5	16.1	16.0	15.6	14.8	13.9	13.6	12.9	12.5	11.9	--	--	9.9

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Nov 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	12.7	12.6	12.3	12.4	12.3	12.3	13.0	14.5	17.4	18.8	20.3	22.0	23.0	24.4	24.7	23.9	22.4	20.9	19.8	17.9	17.9	17.6	19.4	18.1	17.9	24.7	12.3
2	19.0	19.9	18.7	19.4	19.2	19.7	20.2	20.0	21.4	22.4	23.9	24.8	25.7	26.8	27.3	26.8	26.6	25.3	24.3	22.9	22.6	20.9	21.1	20.5	22.5	27.3	18.7
3	20.0	19.2	19.2	18.3	18.1	17.8	17.4	17.6	18.8	21.0	22.4	23.5	24.4	24.8	23.8	23.7	23.0	21.7	20.8	19.1	18.3	17.3	16.8	16.6	20.2	24.8	16.6
4	16.4	16.7	15.8	17.1	16.8	16.4	15.5	14.6	18.1	20.8	21.8	22.9	23.9	24.0	23.8	22.5	21.8	21.2	20.1	19.1	18.6	18.4	15.8	13.3	19.0	24.0	13.3
5	12.3	12.2	12.8	13.1	13.5	13.4	12.5	12.7	14.4	15.0	15.7	16.6	17.9	18.2	18.5	19.4	18.3	17.4	16.4	15.4	15.4	15.6	14.8	13.5	15.2	19.4	12.2
6	13.7	12.4	11.9	10.3	10.1	9.9	10.1	10.9	13.8	16.2	18.0	18.9	20.4	21.4	22.3	22.8	21.8	20.9	19.5	19.9	18.4	18.5	19.2	19.9	16.7	22.8	9.9
7	19.5	18.2	18.2	19.5	18.8	17.9	17.6	17.3	18.3	19.4	21.3	22.3	23.3	24.3	24.9	24.6	23.7	22.5	21.6	21.2	21.0	20.7	20.4	20.0	20.7	24.9	17.3
8	19.7	19.4	19.1	18.9	18.8	18.7	18.2	18.2	19.9	20.5	22.3	23.8	24.6	25.0	25.1	25.6	24.2	22.6	21.8	20.1	19.1	18.4	18.0	17.4	20.8	25.6	17.4
9	16.9	16.9	16.6	17.6	17.6	16.8	16.4	16.2	19.9	22.8	25.2	26.0	25.8	25.2	25.8	26.2	24.5	23.0	21.7	19.8	20.0	19.0	19.0	18.2	20.7	26.2	16.2
10	18.0	18.0	18.7	18.5	17.4	17.9	17.3	18.7	19.6	21.7	23.2	24.9	26.4	26.6	27.0	26.4	25.6	24.9	24.5	23.8	22.5	22.2	21.4	20.5	21.9	27.0	17.3
11	20.7	19.8	19.9	19.7	19.8	19.2	20.7	19.8	21.7	24.4	25.7	26.5	28.1	28.9	29.0	28.9	27.8	26.5	24.7	24.1	22.8	24.0	24.0	23.7	23.8	29.0	19.2
12	24.0	22.8	21.8	21.4	20.0	20.9	21.2	23.1	24.1	25.1	26.4	27.0	27.7	27.9	27.4	26.6	25.9	24.7	23.8	22.8	21.8	20.8	20.3	19.9	23.6	27.9	19.9
13	19.2	18.9	18.4	17.8	17.7	17.6	17.0	17.3	18.1	18.9	20.4	21.1	22.1	22.8	22.8	22.7	21.7	20.6	19.8	19.6	19.2	18.6	18.3	18.0	19.5	22.8	17.0
14	17.4	16.8	16.4	16.2	15.9	15.8	15.8	15.7	17.6	19.1	20.5	22.9	24.2	24.7	24.7	24.1	23.2	21.6	20.5	19.1	19.0	18.8	18.8	18.3	19.5	24.7	15.7
15	17.7	16.7	17.9	18.2	17.3	16.9	17.6	17.6	18.4	19.7	21.1	23.0	23.2	23.3	22.7	22.5	20.5	20.1	20.2	16.8	17.2	16.5	16.1	15.6	19.0	23.3	15.6
16	15.1	15.0	15.0	14.7	14.5	14.2	13.8	13.3	13.6	14.2	14.7	15.7	16.5	17.2	18.2	17.9	17.3	16.1	15.3	14.8	13.7	14.0	14.1	13.9	15.1	18.2	13.3
17	13.6	12.7	12.7	12.7	12.6	12.0	12.1	12.2	13.8	16.0	17.7	19.0	19.2	19.7	20.0	20.3	19.8	18.7	17.4	17.2	17.8	17.4	17.3	16.8	16.2	20.3	12.0
18	16.3	15.9	15.7	16.0	16.6	16.4	15.8	16.0	17.1	18.7	20.6	22.6	23.2	23.1	23.0	22.6	22.0	20.8	19.8	18.2	18.2	17.1	16.3	15.8	18.7	23.2	15.7
19	15.5	15.5	15.0	14.8	14.5	14.9	14.2	15.4	17.7	18.7	20.7	22.6	23.0	21.9	21.7	21.7	21.0	19.2	18.3	18.1	17.1	16.3	15.4	14.8	17.8	23.0	14.2
20	14.9	14.5	13.9	14.1	14.1	13.9	14.5	14.7	15.0	16.4	18.0	19.1	19.6	18.6	18.4	18.1	18.0	17.5	17.1	17.3	16.9	16.6	16.6	16.5	16.4	19.6	13.9
21	15.7	15.1	15.2	15.7	15.4	15.5	15.1	15.1	16.2	17.1	18.1	19.2	20.1	20.0	18.9	18.5	18.1	17.5	17.2	16.7	15.3	14.3	14.3	14.1	16.6	20.1	14.1
22	14.2	13.9	14.7	15.4	17.0	16.2	13.5	13.6	13.1	11.1	10.1	10.0	9.9	9.8	9.5	9.7	9.7	9.7	9.4	9.4	9.4	9.3	9.0	8.2	11.5	17.0	8.2
23	8.1	8.1	8.1	8.6	8.6	8.3	8.0	7.5	7.5	7.5	7.2	6.9	6.3	6.9	7.5	8.3	7.8	7.9	8.2	7.9	7.9	7.8	7.8	7.1	7.7	8.6	6.3
24	7.3	7.2	7.1	7.1	6.4	6.2	6.4	6.1	5.8	6.4	6.6	6.4	6.6	7.2	7.9	8.6	8.1	7.4	7.0	7.2	7.2	6.7	6.4	6.5	6.9	8.6	5.8
25	6.5	5.7	5.9	5.6	5.2	4.8	4.6	4.5	6.1	8.4	9.9	11.3	12.8	12.3	12.4	12.6	12.3	11.0	9.9	10.4	10.2	10.7	11.2	11.0	9.0	12.8	4.5
26	10.7	10.9	12.0	12.0	11.8	10.5	11.7	10.8	11.2	12.7	13.9	14.6	15.4	16.4	16.1	16.3	15.5	14.1	13.2	13.2	13.0	12.9	12.3	12.0	13.1	16.4	10.5
27	11.5	12.3	12.5	12.1	11.5	11.4	11.6	11.4	12.2	12.9	13.3	13.7	14.2	14.6	14.7	14.7	14.3	13.8	13.6	13.4	13.0	12.5	12.2	11.9	12.9	14.7	11.4
28	12.0	11.6	11.7	11.6	11.4	11.1	11.1	10.9	11.7	12.9	13.8	15.0	16.5	17.7	18.2	18.2	17.7	16.5	15.7	15.9	15.9	15.9	15.8	15.6	14.4	18.2	10.9
29	15.6	15.3	14.8	14.4	14.0	13.7	13.9	14.0	14.8	15.9	17.6	19.0	20.5	21.5	21.1	21.1	19.4	17.8	16.2	16.1	16.0	14.7	13.3	13.3	16.4	21.5	13.3
30	13.3	14.1	14.4	13.6	13.1	12.2	13.3	13.0	14.9	16.8	17.7	18.4	18.9	19.9	20.2	19.7	17.9	15.7	14.6	14.1	13.9	13.9	13.5	12.2	15.4	20.2	12.2
Avg	15.3	14.9	14.9	14.9	14.7	14.4	14.3	14.4	15.7	17.0	18.3	19.3	20.1	20.5	20.6	20.5	19.7	18.6	17.7	17.0	16.6	16.2	16.0	15.4	17.0	--	--
Max	24.0	22.8	21.8	21.4	20.0	20.9	21.2	23.1	24.1	25.1	26.4	27.0	28.1	28.9	29.0	28.9	27.8	26.5	24.7	24.1	22.8	24.0	24.0	23.7	--	29.0	--
Min	6.5	5.7	5.9	5.6	5.2	4.8	4.6	4.5	5.8	6.4	6.6	6.4	6.3	6.9	7.5	8.3	7.8	7.4	7.0	7.2	7.2	6.7	6.4	6.5	--	--	4.5

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Dec 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	11.9	12.4	12.6	12.9	12.7	11.6	11.3	12.0	12.8	15.4	17.9	19.6	20.6	20.3	19.3	18.4	17.7	16.3	15.1	14.1	13.1	12.6	12.8	12.5	14.8	20.6	11.3
2	12.5	12.1	12.0	11.7	11.1	10.5	9.9	10.2	12.0	14.2	16.7	17.4	17.5	17.8	17.8	18.0	17.3	15.7	14.5	13.3	12.4	12.4	12.6	13.0	13.9	18.0	9.9
3	13.0	12.3	12.3	12.1	11.4	11.1	11.2	10.4	11.9	14.7	17.2	18.2	19.4	20.3	20.4	19.9	18.7	16.7	15.5	15.5	15.3	15.2	14.7	14.6	15.1	20.4	10.4
4	14.2	14.0	12.9	12.7	12.7	12.3	11.6	11.3	12.4	13.6	13.8	13.1	13.3	12.7	10.2	9.4	9.2	9.1	8.8	8.4	8.3	8.1	7.8	7.5	11.1	14.2	7.5
5	7.2	7.0	7.0	6.8	6.6	6.6	5.8	5.8	6.0	6.6	7.3	7.6	8.0	8.7	8.7	8.5	7.8	6.7	5.8	5.0	4.5	3.7	3.0	2.7	6.4	8.7	2.7
6	2.5	2.1	2.0	2.1	1.7	2.0	2.5	2.3	3.5	5.8	6.7	7.4	8.2	8.7	9.1	9.0	8.2	6.8	5.7	4.4	4.1	3.5	3.8	3.2	4.8	9.1	1.7
7	2.4	2.9	2.6	2.6	2.5	2.2	2.6	2.1	3.3	5.7	7.9	9.6	9.8	10.9	10.4	9.6	8.9	7.7	7.6	6.9	7.8	8.0	8.0	7.7	6.2	10.9	2.1
8	7.5	6.7	6.6	6.3	6.1	6.4	6.6	6.2	6.2	6.9	8.0	8.4	8.8	9.1	10.4	9.9	8.8	8.0	7.7	7.4	7.0	6.5	6.0	5.8	7.4	10.4	5.8
9	5.3	4.1	2.8	2.5	2.2	1.7	1.0	0.7	2.2	4.4	6.3	7.7	8.3	9.5	9.7	9.4	8.7	7.3	6.2	5.4	4.7	3.9	3.6	4.7	5.1	9.7	0.7
10	5.7	5.4	5.6	6.9	6.4	5.2	6.1	7.9	8.0	8.9	9.8	10.2	11.2	12.2	12.4	12.1	12.3	11.7	11.6	11.3	11.2	11.2	11.2	10.9	9.4	12.4	5.2
11	11.1	11.3	11.2	11.2	11.3	11.4	11.4	11.4	11.9	12.6	13.7	15.1	16.5	17.7	18.4	18.4	17.8	16.9	16.2	16.5	16.4	16.4	16.3	16.1	14.5	18.4	11.1
12	15.4	14.9	14.8	15.0	14.9	14.9	14.9	14.5	14.4	15.1	16.1	17.5	18.4	18.6	18.1	17.3	16.2	15.1	13.9	12.6	11.7	11.7	10.6	9.7	14.8	18.6	9.7
13	9.1	8.3	7.8	7.6	7.0	6.8	6.4	5.8	8.3	10.2	11.8	12.7	13.1	13.4	13.7	13.6	12.9	11.5	10.8	9.7	8.7	8.6	7.8	7.7	9.7	13.7	5.8
14	7.6	8.2	7.0	7.2	7.1	6.6	6.9	7.8	10.6	11.8	12.9	13.4	14.6	16.0	16.7	16.7	16.0	14.8	13.2	12.8	11.7	10.4	9.7	9.4	11.2	16.7	6.6
15	10.7	10.9	11.8	11.2	10.4	9.7	9.2	8.7	10.0	14.3	16.5	16.6	17.7	19.5	20.0	19.4	17.4	15.4	14.6	15.7	15.5	14.9	15.6	16.2	14.2	20.0	8.7
16	15.4	15.2	14.5	13.6	13.7	13.5	12.4	13.0	15.2	17.2	19.1	20.5	21.9	22.6	22.3	22.2	21.3	19.2	17.3	18.1	19.0	17.0	17.8	17.2	17.5	22.6	12.4
17	18.4	16.6	16.6	18.0	17.7	18.1	18.2	18.0	18.6	19.7	21.2	21.8	22.2	23.2	23.8	23.7	22.7	21.9	21.5	21.1	20.2	20.2	19.4	19.5	20.1	23.8	16.6
18	19.4	19.4	19.1	18.8	18.8	18.5	18.3	17.9	18.1	18.2	19.9	20.6	20.7	21.2	22.7	22.8	21.4	20.5	18.8	18.4	18.0	17.4	16.2	15.3	19.2	22.8	15.3
19	15.6	16.0	14.7	13.6	13.1	13.2	13.1	13.2	14.1	15.5	17.0	18.1	18.5	19.0	19.3	18.8	17.2	15.2	13.4	13.0	12.4	12.0	11.7	11.4	15.0	19.3	11.4
20	11.2	11.0	11.4	12.1	12.0	8.2	6.8	6.5	7.1	7.9	8.5	9.1	10.0	9.9	9.4	8.8	8.6	8.5	8.1	7.6	7.1	6.8	6.8	6.8	8.8	12.1	6.5
21	6.6	6.5	6.3	6.3	6.2	6.0	5.8	5.7	5.7	6.0	6.2	6.6	7.0	7.0	7.3	7.5	7.7	7.2	7.2	6.2	6.0	6.0	5.4	5.7	6.4	7.7	5.4
22	5.0	4.8	4.8	4.6	4.7	5.1	5.1	5.0	6.4	8.4	9.7	11.1	11.9	11.9	11.8	11.5	11.0	9.8	9.1	7.9	7.6	7.3	7.0	8.1	7.9	11.9	4.6
23	8.2	8.5	8.8	9.6	9.2	8.6	8.5	8.7	9.5	11.4	12.8	14.0	14.7	15.3	16.0	16.1	15.5	14.5	15.1	14.9	14.7	13.7	13.6	13.0	12.3	16.1	8.2
24	13.9	13.3	13.4	13.0	11.4	10.7	11.8	11.4	11.1	12.8	14.3	15.0	15.9	16.7	17.3	17.4	17.1	15.3	13.2	12.6	13.0	12.4	15.5	15.2	13.9	17.4	10.7
25	15.0	14.9	14.5	13.7	13.3	11.5	13.2	11.3	10.8	12.5	13.8	14.4	15.3	16.4	17.1	17.3	17.0	15.6	14.1	13.7	13.4	13.7	13.3	13.1	14.1	17.3	10.8
26	13.0	12.5	11.5	11.0	11.7	11.6	12.1	12.6	12.5	12.6	13.3	14.1	15.0	16.3	16.8	17.0	16.4	14.9	14.1	14.0	12.4	11.6	11.7	12.3	13.4	17.0	11.0
27	11.6	11.9	12.8	12.1	12.9	13.8	11.3	11.5	14.2	14.8	15.5	16.4	17.5	17.7	17.9	17.9	17.6	16.8	16.3	14.1	13.4	13.1	12.3	11.1	14.4	17.9	11.1
28	10.9	10.0	9.4	9.6	10.7	10.0	10.4	10.4	10.9	12.8	13.7	14.7	15.8	16.9	17.1	16.7	15.5	14.2	13.0	12.6	11.6	12.2	11.0	11.0	12.5	17.1	9.4
29	11.4	10.5	10.5	10.3	9.3	8.6	9.5	9.5	10.0	12.2	14.7	15.1	16.0	16.5	17.3	17.2	16.7	15.3	13.4	12.3	13.2	12.4	11.9	10.7	12.7	17.3	8.6
30	10.5	9.3	8.6	8.6	9.0	8.1	7.7	7.6	8.2	11.0	13.3	15.0	16.2	16.8	15.7	15.9	15.0	13.5	12.1	11.0	10.3	11.0	11.1	11.6	11.5	16.8	7.6
31	11.1	11.6	12.5	12.9	12.4	11.9	11.8	11.9	11.4	14.2	15.1	16.2	17.2	18.2	19.2	19.5	19.2	17.1	15.4	14.9	14.4	14.0	12.8	13.6	14.5	19.5	11.1
Avg	10.8	10.5	10.3	10.2	10.0	9.6	9.5	9.4	10.2	11.8	13.2	14.1	14.9	15.5	15.7	15.5	14.8	13.5	12.6	12.0	11.6	11.2	11.0	10.9	12.0	--	--
Max	19.4	19.4	19.1	18.8	18.8	18.5	18.3	18.0	18.6	19.7	21.2	21.8	22.2	23.2	23.8	23.7	22.7	21.9	21.5	21.1	20.2	20.2	19.4	19.5	--	23.8	--
Min	2.4	2.1	2.0	2.1	1.7	1.7	1.0	0.7	2.2	4.4	6.2	6.6	7.0	7.0	7.3	7.5	7.7	6.7	5.7	4.4	4.1	3.5	3.0	2.7	--	--	0.7

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Oct 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	6	176	423	621	771	855	872	818	702	528	313	92	0	0	0	0	0	0	257	872	0
2	0	0	0	0	0	0	7	169	411	605	753	837	854	800	687	515	304	85	0	0	0	0	0	0	251	854	0
3	0	0	0	0	0	0	6	167	418	617	764	844	858	784	677	508	298	82	0	0	0	0	0	0	251	858	0
4	0	0	0	0	0	0	7	154	400	593	742	825	842	787	671	499	285	73	0	0	0	0	0	0	245	842	0
5	0	0	0	0	0	0	6	164	435	644	800	882	885	821	698	521	301	78	0	0	0	0	0	0	260	885	0
6	0	0	0	0	0	0	5	155	429	630	779	860	873	809	685	506	288	73	0	0	0	0	0	0	254	873	0
7	0	0	0	0	0	0	5	144	407	622	723	819	812	757	518	467	118	39	0	0	0	0	0	0	226	819	0
8	0	0	0	0	0	0	6	132	397	589	757	821	835	772	646	481	270	60	0	0	0	0	0	0	240	835	0
9	0	0	0	0	0	0	5	126	376	592	747	813	794	630	606	459	167	35	0	0	0	0	0	0	223	813	0
10	0	0	0	0	0	0	2	12	33	173	295	511	696	709	574	490	265	55	0	0	0	0	0	0	159	709	0
11	0	0	0	0	0	0	4	123	396	593	742	826	833	771	650	475	261	55	0	0	0	0	0	0	239	833	0
12	0	0	0	0	0	0	5	120	391	587	733	813	823	762	643	467	254	50	0	0	0	0	0	0	235	823	0
13	0	0	0	0	0	0	4	112	376	571	717	801	814	756	637	464	251	47	0	0	0	0	0	0	231	814	0
14	0	0	0	0	0	0	5	111	373	567	715	797	814	759	639	462	249	46	0	0	0	0	0	0	231	814	0
15	0	0	0	0	0	0	4	109	371	565	713	798	812	751	631	454	242	43	0	0	0	0	0	0	229	812	0
16	0	0	0	0	0	0	4	108	378	575	724	804	819	754	632	454	239	41	0	0	0	0	0	0	230	819	0
17	0	0	0	0	0	0	3	105	377	570	715	795	806	747	624	446	232	38	0	0	0	0	0	0	227	806	0
18	0	0	0	0	0	0	3	100	368	565	715	800	812	746	623	442	228	35	0	0	0	0	0	0	227	812	0
19	0	0	0	0	0	0	3	100	379	573	718	800	808	744	621	441	224	32	0	0	0	0	0	0	227	808	0
20	0	0	0	0	0	0	3	95	363	555	700	783	797	736	616	438	223	32	0	0	0	0	0	0	223	797	0
21	0	0	0	0	0	0	3	91	360	547	684	767	777	717	598	423	210	27	0	0	0	0	0	0	217	777	0
22	0	0	0	0	0	0	2	85	358	553	694	774	783	720	595	419	209	26	0	0	0	0	0	0	217	783	0
23	0	0	0	0	0	0	2	79	316	538	676	756	762	695	581	402	192	22	0	0	0	0	0	0	209	762	0
24	0	0	0	0	0	0	4	89	322	521	581	685	678	556	493	298	91	31	0	0	0	0	0	0	181	685	0
25	0	0	0	0	0	0	2	73	334	523	660	744	759	698	578	403	195	22	0	0	0	0	0	0	208	759	0
26	0	0	0	0	0	0	2	72	343	534	672	750	758	695	562	266	181	20	0	0	0	0	0	0	202	758	0
27	0	0	0	0	0	0	1	68	334	523	661	741	748	681	538	387	189	14	0	0	0	0	0	0	203	748	0
28	0	0	0	0	0	0	4	70	170	356	600	735	725	519	294	173	72	7	0	0	0	0	0	0	155	735	0
29	0	0	0	0	0	0	1	63	321	510	646	725	735	511	148	191	66	19	0	0	0	0	0	0	164	735	0
30	0	0	0	0	0	0	2	83	258	442	533	728	741	677	557	380	173	15	0	0	0	0	0	0	191	741	0
31	0	0	0	0	0	0	1	60	320	505	643	722	736	673	556	379	172	14	0	0	0	0	0	0	199	736	0
Avg	0	0	0	0	0	0	4	107	353	547	689	781	795	721	590	427	218	42	0	0	0	0	0	0	220	--	--
Max	0	0	0	0	0	0	7	176	435	644	800	882	885	821	702	528	313	92	0	0	0	0	0	0	--	885	--
Min	0	0	0	0	0	0	1	12	33	173	295	511	678	511	148	173	66	7	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Nov 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	1	57	320	513	649	729	737	675	554	377	169	13	0	0	0	0	0	0	200	737	0
2	0	0	0	0	0	0	1	53	325	521	660	737	742	670	507	250	196	13	0	0	0	0	0	0	195	742	0
3	0	0	0	0	0	0	1	46	197	457	537	617	601	635	486	356	156	12	0	0	0	0	0	0	171	635	0
4	0	0	0	0	0	0	0	44	295	481	619	690	722	611	464	273	62	3	0	0	0	0	0	0	178	722	0
5	0	0	0	0	0	0	1	72	348	320	430	627	666	494	582	437	169	12	0	0	0	0	0	0	173	666	0
6	0	0	0	0	0	0	0	38	308	503	648	726	733	662	541	362	156	10	0	0	0	0	0	0	195	733	0
7	0	0	0	0	0	0	0	34	302	497	642	722	731	662	541	360	153	9	0	0	0	0	0	0	194	731	0
8	0	0	0	0	0	0	1	45	281	334	608	680	684	627	498	342	138	10	0	0	0	0	0	0	177	684	0
9	0	0	0	0	0	0	0	30	275	459	597	670	681	625	508	336	140	9	0	0	0	0	0	0	180	681	0
10	0	0	0	0	0	0	0	41	120	345	337	528	573	374	505	211	64	5	0	0	0	0	0	0	129	573	0
11	0	0	0	0	0	0	0	26	263	448	587	662	673	610	491	325	120	7	0	0	0	0	0	0	175	673	0
12	0	0	0	0	0	0	0	23	268	466	566	590	615	506	326	201	96	1	0	0	0	0	0	0	152	615	0
13	0	0	0	0	0	0	0	22	261	444	583	650	660	605	484	319	102	7	0	0	0	0	0	0	172	660	0
14	0	0	0	0	0	0	0	23	254	437	573	650	660	602	486	324	99	5	0	0	0	0	0	0	171	660	0
15	0	0	0	0	0	0	0	19	92	244	377	548	421	307	179	144	39	1	0	4	3	0	0	0	99	548	0
16	0	0	0	0	0	0	0	19	82	233	363	651	488	385	487	305	100	6	0	0	0	0	0	0	130	651	0
17	0	0	0	0	0	0	0	36	186	217	516	639	528	524	482	309	95	4	0	0	0	0	0	0	147	639	0
18	0	0	0	0	0	0	0	40	97	297	433	619	611	405	426	309	97	4	0	0	0	0	0	0	139	619	0
19	0	0	0	0	0	0	1	30	206	338	509	634	643	585	471	305	89	1	0	0	0	0	0	0	159	643	0
20	0	0	0	0	0	0	0	35	104	271	410	444	488	268	309	106	20	3	0	0	0	0	0	0	102	488	0
21	0	0	0	0	0	0	0	38	105	145	260	393	522	331	192	125	48	2	0	0	0	0	0	0	90	522	0
22	0	1	2	1	0	0	0	1	11	15	28	73	51	56	99	58	21	0	0	0	0	0	0	0	18	99	0
23	0	0	0	0	0	0	0	2	39	45	47	30	57	98	210	282	67	3	0	0	1	0	0	0	37	282	0
24	0	0	0	0	0	0	0	9	78	147	158	79	148	274	258	203	46	1	0	0	0	0	0	0	58	274	0
25	0	0	0	0	0	0	0	11	210	397	535	616	635	587	469	303	95	4	0	0	0	0	0	0	161	635	0
26	0	0	0	0	0	0	0	11	214	403	540	623	635	585	470	307	95	1	0	0	0	0	0	0	162	635	0
27	0	0	0	0	0	0	0	32	164	296	315	353	325	343	289	255	55	2	0	0	0	0	0	0	101	353	0
28	0	0	0	0	0	0	0	10	207	403	542	621	635	580	467	304	93	3	0	0	0	0	0	0	161	635	0
29	0	0	0	0	0	0	0	11	188	366	534	614	629	564	458	285	100	3	0	0	0	0	0	0	156	629	0
30	0	0	0	0	0	0	0	14	123	264	357	335	380	343	268	172	48	1	0	0	0	0	0	0	96	380	0
Avg	0	0	0	0	0	0	0	29	197	344	465	552	556	487	417	275	98	5	0	0	0	0	0	0	143	--	--
Max	0	1	2	1	0	0	1	72	348	521	660	737	742	675	582	437	196	13	0	4	3	0	0	0	--	742	--
Min	0	0	0	0	0	0	0	1	11	15	28	30	51	56	99	58	20	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Dec 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	0	24	206	375	527	606	649	494	317	226	88	4	0	0	0	0	0	0	147	649	0
2	0	0	0	0	0	0	0	9	180	380	515	608	603	442	372	311	89	4	0	0	0	0	0	0	146	608	0
3	0	0	0	0	0	0	0	23	176	354	492	602	617	564	462	300	100	2	0	0	0	0	0	0	154	617	0
4	0	0	0	0	0	0	0	22	124	282	268	136	257	194	64	40	26	1	0	0	0	0	0	0	59	282	0
5	0	0	0	0	0	0	0	13	128	285	409	400	611	534	404	275	104	2	0	0	0	0	0	0	132	611	0
6	0	0	0	0	0	0	0	8	171	378	519	608	626	575	462	303	106	3	0	0	0	0	0	0	157	626	0
7	0	0	0	0	0	0	0	7	164	370	514	600	619	573	460	300	104	2	0	0	0	0	0	0	155	619	0
8	0	0	0	0	0	0	0	13	69	193	332	374	285	368	479	234	56	3	0	0	0	0	0	0	100	479	0
9	0	0	0	0	0	0	0	7	159	371	513	605	632	582	471	309	106	1	0	0	0	0	0	0	156	632	0
10	0	0	0	0	0	0	0	13	72	263	324	406	446	407	340	237	103	1	0	0	0	0	0	0	109	446	0
11	0	0	0	0	0	0	0	6	147	356	496	577	595	549	444	291	104	2	0	0	0	0	0	0	149	595	0
12	0	0	0	0	0	0	0	7	141	358	486	570	596	385	164	86	32	1	0	0	0	0	0	0	118	596	0
13	0	0	0	0	0	0	0	7	135	331	478	567	593	550	442	287	105	2	0	0	0	0	0	0	146	593	0
14	0	0	0	0	0	0	0	6	141	360	511	599	619	572	463	305	113	2	0	0	0	0	0	0	154	619	0
15	0	0	0	0	0	0	0	5	138	352	496	583	605	558	453	296	109	1	0	0	0	0	0	0	150	605	0
16	0	0	0	0	0	0	0	8	131	359	499	538	579	492	351	196	75	2	0	0	0	0	0	0	135	579	0
17	0	0	0	0	0	0	0	6	136	355	506	594	591	557	452	310	93	3	0	0	0	0	0	0	150	594	0
18	0	0	0	0	0	0	0	9	83	170	380	444	328	447	447	187	47	1	0	0	0	0	0	0	106	447	0
19	0	0	0	0	0	0	0	5	125	339	485	573	598	565	440	292	84	5	0	0	0	0	0	0	146	598	0
20	0	0	0	0	0	0	0	9	59	172	201	272	364	157	96	60	84	4	0	0	0	0	0	0	62	364	0
21	0	0	0	0	0	0	0	3	21	90	99	173	209	143	210	127	87	3	0	0	0	0	0	0	49	210	0
22	0	0	0	0	0	0	0	5	121	335	483	574	599	564	468	304	116	5	0	0	0	0	0	0	149	599	0
23	0	0	0	0	0	0	0	4	121	345	497	587	614	572	467	311	122	4	0	0	0	0	0	0	152	614	0
24	0	0	0	0	0	0	0	3	119	343	495	584	609	570	465	311	121	4	0	0	0	0	0	0	151	609	0
25	0	0	0	0	0	0	0	4	122	357	503	597	623	580	477	319	127	5	0	0	0	0	0	0	155	623	0
26	0	0	0	0	0	0	0	4	117	346	497	599	629	584	478	320	131	5	0	0	0	0	0	0	155	629	0
27	0	0	0	0	0	0	0	4	115	343	497	591	616	579	475	321	130	5	0	0	0	0	0	0	153	616	0
28	0	0	0	0	0	0	0	9	126	304	456	525	507	475	371	196	83	3	0	0	0	0	0	0	127	525	0
29	0	0	0	0	0	0	0	4	108	326	478	572	603	567	467	317	131	6	0	0	0	0	0	0	149	603	0
30	0	0	0	0	0	0	0	4	110	334	489	585	619	579	477	324	136	6	0	0	0	0	0	0	153	619	0
31	0	0	0	0	0	0	0	3	109	334	490	585	615	580	478	323	134	6	0	0	0	0	0	0	152	615	0
Avg	0	0	0	0	0	0	0	8	125	318	449	524	550	495	400	259	98	3	0	0	0	0	0	0	135	--	--
Max	0	0	0	0	0	0	0	24	206	380	527	608	649	584	479	324	136	6	0	0	0	0	0	0	--	649	--
Min	0	0	0	0	0	0	0	3	21	90	99	136	209	143	64	40	26	1	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Oct 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	19	18	19	19	19	21	18	15	13	11	12	13	13	13	13	13	12	14	16	17	17	19	20	16	21	11
2	21	22	23	25	30	33	31	27	24	23	23	23	20	20	20	19	19	20	22	23	24	25	24	24	24	33	19
3	23	25	28	33	35	35	39	40	32	22	16	18	18	21	21	20	18	16	17	19	20	21	24	30	25	40	16
4	37	39	42	39	38	40	39	35	28	24	21	19	19	19	18	17	17	14	13	11	12	12	11	11	24	42	11
5	11	11	11	12	13	12	9	6	6	5	6	7	6	6	6	6	7	8	9	10	12	12	12	11	9	13	5
6	12	11	10	11	13	16	15	11	10	9	9	9	8	7	6	6	6	7	8	9	10	9	10	10	10	16	6
7	10	11	11	10	11	12	11	11	10	8	8	8	8	8	8	8	8	8	8	10	9	10	11	12	9	12	8
8	13	13	14	12	12	15	15	14	11	10	9	9	11	12	11	9	9	10	13	13	13	14	16	18	12	18	9
9	17	16	16	18	20	22	24	24	19	17	15	13	12	11	12	11	16	21	26	28	31	37	43	48	22	48	11
10	56	62	63	65	62	65	65	87	92	90	82	72	59	49	44	40	39	41	42	47	46	48	41	37	58	92	37
11	42	41	43	46	46	47	47	43	36	30	23	19	22	25	24	22	22	23	25	29	32	34	35	36	33	47	19
12	33	33	32	33	30	28	30	26	21	19	18	18	17	14	16	17	18	19	22	24	27	26	28	30	24	33	14
13	29	31	33	33	34	33	33	32	26	24	26	24	21	19	18	15	14	15	18	22	24	26	28	29	25	34	14
14	29	33	36	37	40	43	43	42	35	33	28	26	23	18	19	18	15	14	16	17	20	22	23	23	27	43	14
15	17	18	19	21	21	22	23	23	20	16	15	16	16	16	15	15	14	16	17	19	21	22	24	23	19	24	14
16	24	23	23	22	25	28	27	25	23	20	17	14	13	12	12	14	15	16	19	20	22	23	25	26	20	28	12
17	26	26	23	22	21	22	23	21	18	16	14	14	14	13	13	14	14	16	17	18	20	21	22	23	19	26	13
18	24	24	26	25	25	26	26	25	20	15	11	9	9	11	11	11	12	13	15	17	18	16	15	15	17	26	9
19	13	13	14	14	13	14	14	13	10	8	7	7	6	5	5	6	7	8	8	10	11	11	12	12	10	14	5
20	11	13	12	11	12	14	15	14	11	9	8	8	8	8	8	8	8	9	11	12	14	15	15	16	11	16	8
21	15	16	15	16	17	17	18	16	12	10	9	9	8	7	8	7	8	9	10	12	12	14	14	13	12	18	7
22	13	11	11	13	11	11	13	16	14	13	13	11	10	9	6	6	7	8	8	8	9	10	10	10	10	16	6
23	11	12	13	14	14	13	13	13	13	12	11	10	9	8	8	8	8	9	10	11	10	12	13	14	11	14	8
24	16	17	18	19	20	21	21	20	18	16	15	12	10	9	11	11	11	11	13	12	13	14	16	15	15	21	9
25	16	17	18	19	19	19	17	18	14	12	11	13	13	12	12	12	13	14	14	15	17	17	17	18	15	19	11
26	20	22	25	27	28	27	25	25	23	20	18	17	14	12	11	10	11	15	17	18	19	16	17	17	19	28	10
27	16	15	17	18	19	20	21	21	19	19	16	14	12	10	9	10	10	12	14	16	18	19	19	18	16	21	9
28	18	18	21	22	26	26	24	23	22	19	19	17	17	16	16	17	19	22	26	30	31	29	28	29	22	31	16
29	30	32	34	36	40	45	46	44	33	26	22	22	24	25	38	43	42	40	39	41	43	44	45	45	37	46	22
30	45	45	47	49	50	51	52	51	41	40	40	35	30	26	26	25	24	27	28	29	31	33	35	37	37	52	24
31	37	36	38	35	33	32	34	34	30	26	22	19	19	17	19	20	20	22	23	26	27	28	30	31	27	38	17
Avg	23	23	24	25	26	27	27	26	23	20	18	17	16	15	15	15	15	16	18	19	20	21	22	23	21	--	--
Max	56	62	63	65	62	65	65	87	92	90	82	72	59	49	44	43	42	41	42	47	46	48	45	48	--	92	--
Min	10	11	10	10	11	11	9	6	6	5	6	7	6	5	5	6	6	7	8	8	9	9	10	10	--	--	5

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Nov 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	32	33	33	32	31	32	29	25	20	19	16	14	12	12	12	14	16	18	19	22	21	21	15	17	21	33	12
2	15	13	15	14	14	13	12	12	11	10	9	8	7	7	7	7	7	8	9	10	10	12	13	19	11	19	7
3	22	24	28	34	38	43	47	47	43	35	29	28	25	24	26	24	23	24	24	26	27	29	30	29	30	47	22
4	29	29	30	29	31	33	36	39	33	32	30	26	24	24	25	29	28	28	30	32	32	31	48	72	33	72	24
5	78	76	66	62	59	59	63	64	55	55	52	48	43	43	43	39	40	41	43	46	39	25	25	28	50	78	25
6	20	14	13	14	13	12	11	10	8	5	4	4	4	4	3	2	4	4	6	6	8	9	9	10	8	20	2
7	10	11	10	9	9	10	9	9	8	8	6	5	4	4	4	5	6	7	8	10	12	13	14	15	9	15	4
8	16	18	19	19	20	20	20	20	18	18	16	15	15	15	16	15	17	20	23	25	26	27	29	30	20	30	15
9	30	30	28	24	23	26	26	26	22	19	15	14	15	16	16	15	17	19	21	23	22	24	24	26	22	30	14
10	26	25	23	24	27	25	26	22	21	18	17	16	15	15	14	15	15	16	16	17	19	20	21	22	20	27	14
11	22	24	23	24	23	24	22	24	22	18	17	17	15	15	14	13	14	16	19	18	19	14	14	14	19	24	13
12	12	13	14	15	17	17	17	16	14	12	12	13	14	15	17	19	20	23	23	26	28	28	28	28	18	28	12
13	30	31	34	37	38	38	41	41	39	37	34	33	31	30	30	31	32	34	35	36	36	38	38	39	35	41	30
14	40	42	43	44	44	45	45	45	40	36	33	29	26	24	23	25	27	31	33	35	34	31	30	31	35	45	23
15	34	37	34	34	36	36	38	39	41	40	37	32	30	30	32	34	48	47	43	69	61	64	67	73	43	73	30
16	76	77	76	78	77	77	79	81	80	74	71	63	56	49	43	42	43	47	49	52	57	55	55	56	63	81	42
17	59	62	61	62	65	67	65	66	57	53	50	44	40	37	34	32	35	40	45	41	38	40	40	42	49	67	32
18	44	44	44	42	39	40	42	41	39	35	31	27	26	29	30	31	31	36	39	43	41	45	48	50	38	50	26
19	50	51	53	53	54	50	52	48	41	39	34	29	28	32	32	31	28	32	37	40	43	44	47	49	41	54	28
20	49	51	53	54	54	54	52	51	49	44	38	37	35	39	39	40	37	39	42	42	44	45	44	45	45	54	35
21	46	48	48	47	48	49	49	48	44	42	40	36	34	33	38	39	40	41	42	51	65	73	72	77	48	77	33
22	79	81	72	67	58	67	88	89	92	94	95	95	95	95	95	94	94	94	93	94	94	94	95	97	88	97	58
23	97	97	97	90	78	77	77	79	78	74	74	76	75	73	70	67	66	65	64	68	67	66	68	75	76	97	64
24	69	67	67	65	70	70	68	69	72	68	69	72	73	71	66	63	63	64	65	62	61	63	64	63	67	73	61
25	61	68	64	66	69	71	73	74	63	54	49	48	49	54	55	54	55	64	73	62	56	51	45	45	59	74	45
26	46	46	40	38	39	45	40	44	45	41	39	38	35	30	30	25	23	26	28	27	29	30	31	32	35	46	23
27	33	29	28	28	30	29	28	29	26	25	25	24	23	23	23	22	22	22	22	22	23	24	25	26	25	33	22
28	25	26	26	26	27	28	28	28	27	25	25	24	23	22	22	22	23	25	26	27	28	28	28	29	26	29	22
29	29	30	31	33	34	34	34	34	32	30	29	28	28	26	26	26	32	38	43	40	38	44	50	49	34	50	26
30	48	42	41	45	48	52	46	46	40	35	33	33	32	31	31	35	46	56	60	60	60	58	57	66	46	66	31
Avg	41	41	40	40	40	41	42	42	39	37	34	33	31	31	30	30	32	34	36	38	38	38	39	42	37	--	--
Max	97	97	97	90	78	77	88	89	92	94	95	95	95	95	95	94	94	94	93	94	94	94	95	97	--	97	--
Min	10	11	10	9	9	10	9	9	8	5	4	4	4	4	3	2	4	4	6	6	8	9	9	10	--	--	2

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Dec 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	65	59	53	49	48	53	54	49	47	40	33	27	24	24	34	40	43	49	54	54	55	56	43	40	46	65	24
2	40	39	36	35	35	39	40	38	35	30	24	24	29	29	32	32	33	40	46	52	54	51	42	36	37	54	24
3	37	42	45	44	47	49	50	50	47	39	30	24	21	16	18	18	23	31	35	33	37	42	45	45	36	50	16
4	40	34	37	41	42	47	49	47	46	45	49	55	54	61	76	81	82	74	75	79	76	72	78	79	59	82	34
5	79	73	71	73	77	71	73	76	63	56	46	39	36	33	32	33	36	40	44	46	45	48	51	52	54	79	32
6	51	51	50	47	48	44	42	42	40	34	28	26	24	23	23	25	27	32	36	44	43	47	42	45	38	51	23
7	49	45	44	43	41	41	38	41	38	31	29	25	26	23	26	30	33	38	39	43	40	45	51	62	38	62	23
8	69	82	82	85	85	83	79	82	82	73	61	55	55	53	48	46	49	51	52	49	50	51	50	44	63	85	44
9	43	50	57	57	56	58	60	61	51	37	34	31	22	19	17	13	12	12	15	16	16	18	19	17	33	61	12
10	16	17	16	13	14	17	14	12	13	12	12	12	12	11	12	12	12	13	14	14	14	14	14	15	14	17	11
11	14	14	14	15	15	15	15	16	15	15	15	15	16	15	16	16	17	19	20	23	23	22	24	23	17	24	14
12	23	21	21	23	24	25	26	26	26	24	24	23	25	28	32	36	40	44	48	50	53	49	45	52	33	53	21
13	50	52	48	47	49	50	51	53	44	36	31	29	29	29	30	31	31	35	36	39	43	43	46	47	41	53	29
14	47	46	51	49	49	50	41	33	24	23	20	20	18	16	15	14	14	14	16	17	20	23	25	25	28	51	14
15	23	22	22	23	24	26	27	28	24	15	13	13	13	13	12	15	20	24	25	19	19	19	17	16	20	28	12
16	17	18	19	20	19	20	23	21	17	14	13	12	11	10	11	12	14	18	21	19	15	19	17	18	17	23	10
17	15	19	18	14	14	13	12	13	13	13	12	11	11	10	9	9	9	10	12	11	13	13	15	14	13	19	9
18	15	14	15	15	14	14	14	15	15	15	13	12	13	14	12	11	13	14	18	18	18	19	22	24	15	24	11
19	24	23	27	30	30	30	29	28	27	24	21	18	17	16	16	16	21	28	37	45	50	56	58	60	30	60	16
20	64	67	59	48	48	86	94	85	75	71	77	76	67	67	65	74	76	70	77	85	93	94	94	95	75	95	48
21	95	95	96	97	97	97	97	95	91	89	83	76	74	73	70	66	62	64	55	66	72	70	71	68	80	97	55
22	73	73	75	76	76	71	70	68	61	54	46	45	44	46	52	53	56	63	69	76	77	76	75	61	64	77	44
23	56	51	45	33	31	32	31	31	32	31	27	22	19	18	19	19	19	21	21	21	22	25	25	25	28	56	18
24	20	20	19	20	26	27	22	23	25	23	21	20	19	20	20	20	20	27	34	35	28	31	20	23	23	35	19
25	23	20	15	12	12	17	8	15	18	16	16	18	17	15	13	13	13	15	18	20	18	18	18	20	16	23	8
26	20	21	24	25	23	25	23	19	20	23	22	19	18	16	15	15	14	20	22	21	24	23	20	17	20	25	14
27	17	16	13	16	16	18	23	21	16	17	17	15	14	14	14	14	13	14	14	18	19	19	22	25	17	25	13
28	26	28	30	29	24	27	26	25	25	20	19	18	18	15	15	16	19	26	30	30	32	29	33	31	25	33	15
29	27	29	28	28	31	33	31	32	31	27	21	20	19	18	17	17	16	18	23	26	20	22	23	25	24	33	16
30	24	27	29	28	26	28	30	29	29	23	18	16	14	16	22	21	24	28	33	36	37	29	24	21	26	37	14
31	21	19	18	18	19	21	23	24	27	20	20	19	17	16	16	15	15	19	22	22	22	22	25	21	20	27	15
Avg	38	38	38	37	38	40	39	39	36	32	29	27	26	25	26	27	28	31	34	36	37	38	37	37	34	--	--
Max	95	95	96	97	97	97	97	95	91	89	83	76	74	73	76	81	82	74	77	85	93	94	94	95	--	97	--
Min	14	14	13	12	12	13	8	12	13	12	12	11	11	10	9	9	9	10	12	11	13	13	14	14	--	--	8

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Oct 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	0.095	0.024	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.123	0.095	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	0.016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.016	0.016	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	0	0	0	0	0	0.095	0.04	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.139	--	--
Max	0	0	0	0	0	0	0	0.095	0.024	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	0.095	--
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: Nov 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	0.004	0.004	0.008	0.004	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	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004	0.004	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	0.004	0.004	0	0.047	0.114	0	0	0	0	0.169	0.114	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	0.008	0.067	0.004	0.024	0.103	0.067	0
22	0.04	0.036	0.012	0	0.004	0	0.079	0.166	0.122	0.208	0.084	0.016	0.13	0.075	0.024	0.02	0.004	0.06	0.036	0.02	0	0	0.044	0.103	1.28	0.208	0
23	0.036	0.112	0.072	0.04	0.036	0.068	0.06	0.119	0.06	0.044	0.079	0.193	0.04	0.008	0	0	0	0	0	0.02	0.004	0	0.004	0.004	0.999	0.193	0
24	0	0	0	0	0.016	0	0	0	0.008	0	0.008	0.028	0.02	0.004	0	0	0	0	0	0	0	0	0	0	0.084	0.028	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	0.076	0.148	0.084	0.044	0.056	0.068	0.139	0.285	0.19	0.252	0.171	0.237	0.19	0.087	0.024	0.024	0.008	0.06	0.083	0.154	0.012	0.067	0.056	0.135	2.65	--	--
Max	0.04	0.112	0.072	0.04	0.036	0.068	0.079	0.166	0.122	0.208	0.084	0.193	0.13	0.075	0.024	0.02	0.004	0.06	0.047	0.114	0.008	0.067	0.044	0.103	--	0.208	--
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: Dec 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	0.004	0	0	0	0	0	0	0	0.004	0.004	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	0.11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11	0.11	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	0.004	0.004	0.012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.012	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	0.217	0.224	0.071	0	0	0	0	0	0	0	0.004	0	0	0	0.028	0.024	0.02	0.024	0.012	0.624	0.224	0
21	0.068	0.083	0.036	0.076	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.263	0.083	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	0.068	0.083	0.04	0.08	0.012	0.217	0.224	0.071	0	0.11	0	0	0	0	0	0.004	0.004	0	0	0.028	0.024	0.02	0.024	0.012	1.02	--	--
Max	0.068	0.083	0.036	0.076	0.012	0.217	0.224	0.071	0	0.11	0	0	0	0	0	0.004	0.004	0	0	0.028	0.024	0.02	0.024	0.012	--	0.224	--
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: Oct 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	681	681	681	681	682	682	682	683	683	683	683	683	683	682	682	681	681	681	681	681	681	682	682	682	682	683	681
2	682	682	682	682	682	682	682	683	683	683	683	682	682	681	681	680	680	680	680	680	681	680	680	680	681	683	680
3	680	680	680	680	680	680	680	681	681	681	681	680	679	679	678	678	678	677	678	678	678	679	679	679	679	681	677
4	679	680	680	680	680	680	681	681	682	682	682	682	682	682	681	681	681	682	682	682	683	683	683	683	681	683	679
5	684	684	684	684	685	685	685	686	686	686	686	686	686	685	685	685	685	685	685	685	686	686	685	685	685	686	684
6	685	686	685	685	685	686	686	686	686	686	686	686	686	685	685	684	684	684	684	684	684	684	684	684	685	686	684
7	684	684	684	684	684	684	684	684	684	684	684	684	683	683	682	682	682	682	682	682	682	682	682	681	683	684	681
8	681	681	681	681	681	681	681	681	681	681	681	681	680	680	679	679	679	679	678	678	679	679	679	679	680	681	678
9	679	679	678	678	678	678	678	678	679	679	678	678	677	677	676	676	676	676	677	677	677	678	678	678	678	679	676
10	678	678	678	678	678	678	679	680	680	682	682	682	682	682	682	682	682	682	682	682	682	682	682	682	681	682	678
11	682	682	682	682	682	682	683	683	683	683	683	683	682	682	682	682	681	681	681	681	682	682	682	682	682	683	681
12	682	682	681	681	681	682	682	682	682	682	682	682	681	681	680	680	680	681	681	681	681	681	681	681	681	682	680
13	682	681	681	681	681	682	682	682	683	683	683	682	682	681	681	681	681	681	681	682	682	682	682	683	682	683	681
14	683	683	683	683	683	683	684	684	684	684	684	684	683	682	682	682	682	682	682	682	682	682	682	682	683	684	682
15	682	682	682	681	681	681	682	682	682	682	682	682	681	681	680	680	680	681	681	681	681	682	682	682	681	682	680
16	682	682	682	682	683	683	683	684	684	685	685	684	684	683	683	683	683	683	683	684	684	684	684	684	683	685	682
17	683	684	683	683	683	684	684	684	685	684	684	683	683	682	682	681	681	681	681	682	682	682	682	682	683	685	681
18	682	682	682	682	682	682	682	683	683	683	683	683	683	682	682	682	682	682	683	683	683	683	683	683	683	683	682
19	683	683	683	683	683	683	684	684	684	684	684	684	683	683	682	682	682	682	682	682	683	683	683	682	683	684	682
20	682	682	682	682	682	682	682	682	683	683	682	682	681	681	680	680	680	680	681	681	681	681	681	681	681	683	680
21	681	682	682	682	682	682	682	683	683	683	683	683	683	682	682	682	682	682	682	683	683	683	683	683	682	683	681
22	683	683	683	683	683	684	684	684	685	685	684	684	684	683	683	682	682	682	682	682	682	682	682	682	683	685	682
23	682	682	682	682	682	682	682	682	682	682	682	682	682	681	681	681	680	680	681	681	681	681	681	681	681	682	680
24	681	681	681	681	682	682	682	682	682	683	683	682	682	681	681	681	681	681	682	682	682	683	683	683	682	683	681
25	683	683	683	683	683	684	684	684	685	685	685	685	684	684	684	684	684	684	684	684	684	685	685	685	684	685	683
26	685	685	685	685	685	685	685	685	686	686	686	686	685	684	684	684	684	684	684	684	684	684	684	683	685	686	683
27	683	683	683	683	682	682	682	682	683	683	682	682	681	680	679	679	679	678	679	679	679	679	679	679	681	683	678
28	679	679	679	679	679	679	679	680	680	680	680	680	680	679	679	679	679	679	679	680	680	680	680	681	679	681	679
29	681	681	681	681	681	681	681	681	681	681	681	680	680	679	679	680	680	680	681	681	681	681	681	681	681	681	679
30	681	681	681	681	681	681	681	682	682	683	683	683	682	682	682	682	682	682	683	683	683	683	684	684	682	684	681
31	684	684	684	684	684	684	685	685	685	685	685	685	684	684	683	683	683	683	684	684	684	684	684	685	684	685	683
Avg	682	682	682	682	682	682	682	683	683	683	683	683	682	682	681	681	681	681	681	682	682	682	682	682	682	--	--
Max	685	686	685	685	685	686	686	686	686	686	686	686	686	685	685	685	685	685	685	685	686	686	685	685	--	686	--
Min	678	678	678	678	678	678	678	678	679	679	678	678	677	677	676	676	676	676	677	677	677	678	678	678	--	--	676

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Nov 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	685	685	685	685	685	685	685	686	686	686	686	686	685	685	684	684	684	684	684	684	684	684	684	684	685	686	684
2	684	684	684	684	684	683	683	684	684	684	684	683	683	682	681	681	681	680	680	681	680	681	681	682	682	684	680
3	681	681	680	680	680	680	680	680	680	680	680	680	679	679	678	678	678	678	678	678	678	678	678	678	679	681	678
4	678	678	678	678	678	678	678	679	679	679	679	679	678	677	677	677	676	676	677	677	677	678	679	680	678	680	676
5	680	680	680	680	680	681	682	682	683	683	684	683	683	683	683	683	683	684	685	685	685	686	686	686	683	686	680
6	686	687	687	687	687	687	688	688	689	689	689	689	688	688	687	687	687	687	687	687	688	688	688	687	688	689	686
7	687	687	687	687	687	687	687	687	688	688	688	687	687	686	685	685	685	685	685	685	685	685	685	685	686	688	685
8	685	685	685	685	685	685	685	685	685	685	685	685	684	683	683	683	683	683	683	683	683	683	684	684	684	685	683
9	684	684	684	684	684	684	684	685	685	686	686	685	685	684	684	684	684	684	684	685	685	685	685	685	684	686	684
10	685	685	685	685	685	685	685	686	686	686	686	686	685	685	684	684	684	684	684	684	685	685	685	684	685	686	684
11	684	684	684	684	684	684	685	685	685	686	686	685	685	684	684	684	684	684	684	685	685	685	686	686	685	686	684
12	686	686	686	687	687	687	687	688	688	688	688	688	687	687	686	686	686	686	687	687	687	688	688	687	687	688	686
13	687	687	687	686	686	686	686	686	687	687	686	686	685	684	684	684	684	684	684	684	684	684	684	684	685	687	684
14	683	684	683	683	683	683	683	684	684	684	684	683	682	682	681	681	681	681	681	680	680	680	680	680	682	684	680
15	679	679	679	678	678	678	678	678	679	678	678	677	677	676	675	675	674	674	675	675	676	676	677	677	677	679	674
16	677	677	677	677	677	677	678	678	679	679	680	679	679	678	678	678	678	678	679	679	679	680	680	681	678	681	677
17	681	681	682	682	682	682	683	683	684	684	685	684	684	683	683	683	683	683	683	684	684	684	684	684	683	685	681
18	684	684	684	684	684	684	684	685	685	685	685	685	684	683	683	683	683	683	683	683	683	683	684	683	684	685	683
19	683	683	683	683	682	682	682	682	683	683	682	682	681	681	680	680	680	680	680	680	680	680	680	680	681	683	680
20	680	680	680	680	680	680	680	680	680	680	680	680	679	679	679	679	679	679	680	680	680	680	680	680	680	680	679
21	680	680	680	680	680	680	680	681	681	682	682	681	681	680	680	680	680	680	681	681	681	681	681	680	681	682	680
22	680	680	679	678	678	678	679	679	679	680	681	681	681	681	681	681	681	681	681	681	681	682	682	682	680	682	678
23	682	682	682	682	682	683	683	684	684	684	684	684	683	683	683	683	683	683	683	684	684	684	684	684	683	684	682
24	684	684	684	684	684	684	684	685	685	686	686	686	685	685	685	685	685	685	685	685	686	686	686	686	685	686	684
25	686	686	686	685	685	685	685	686	686	687	687	687	686	686	686	686	686	686	687	687	687	687	687	687	686	687	685
26	687	687	687	688	688	688	688	688	689	689	689	689	688	687	687	687	687	687	687	687	687	687	687	687	688	689	687
27	686	685	685	685	685	685	685	686	685	685	685	685	684	684	683	683	683	683	683	683	683	684	684	684	684	686	683
28	684	684	683	683	683	683	684	684	684	684	685	684	684	683	683	683	683	683	684	684	684	685	685	685	684	685	683
29	685	685	685	685	685	686	686	686	687	687	687	687	686	686	685	685	685	685	685	686	686	686	686	686	686	687	685
30	686	686	686	686	686	686	686	686	687	687	687	686	686	685	685	684	685	685	685	685	686	686	686	686	686	687	684
Avg	683	683	683	683	683	683	683	684	684	684	684	684	683	683	683	682	682	683	683	683	683	683	683	683	683	--	--
Max	687	687	687	688	688	688	688	688	689	689	689	689	688	688	687	687	687	687	687	687	688	688	688	687	--	689	--
Min	677	677	677	677	677	677	678	678	679	678	678	677	677	676	675	675	674	674	675	675	676	676	677	677	--	--	674

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Dec 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	686	686	686	686	686	686	687	687	687	688	688	687	686	686	686	686	686	686	686	686	686	686	686	686	686	688	686
2	686	685	685	685	685	685	685	685	685	685	685	685	684	683	682	682	682	682	682	682	681	681	681	681	683	686	681
3	680	680	680	679	679	679	679	679	679	680	680	679	678	678	677	677	677	676	676	676	677	677	677	677	678	680	676
4	677	676	676	676	676	677	677	678	678	679	679	679	678	678	678	679	679	679	679	679	680	680	680	680	678	680	676
5	680	680	680	680	680	680	680	680	681	681	682	682	681	681	681	681	681	681	681	682	682	683	683	684	681	684	680
6	684	684	684	684	684	684	685	685	686	686	686	686	685	685	684	684	684	684	684	684	684	684	684	684	685	686	684
7	684	683	683	683	683	683	683	683	683	684	684	683	682	682	682	681	681	682	682	682	682	682	682	682	683	684	681
8	682	682	682	682	682	683	683	684	684	684	685	684	684	683	683	683	682	682	683	683	683	683	683	684	683	685	682
9	684	684	684	684	684	684	685	686	686	687	688	688	687	687	687	688	688	688	688	688	688	689	689	688	687	689	684
10	688	688	688	687	687	687	687	687	688	688	687	687	686	685	685	685	685	685	685	685	685	685	685	685	686	688	685
11	685	685	685	685	685	685	685	686	686	687	687	687	687	686	686	686	686	686	686	686	687	687	687	687	686	687	685
12	687	687	687	686	686	686	686	686	686	687	686	686	685	685	684	684	684	684	685	685	685	685	685	685	685	687	684
13	685	685	685	685	684	685	685	685	685	686	686	686	685	685	685	684	684	684	685	685	685	686	686	686	685	686	684
14	686	686	686	686	686	687	687	687	688	688	688	689	688	688	688	688	688	688	688	689	689	689	690	689	688	690	686
15	689	689	689	689	689	689	689	689	689	689	689	689	688	688	687	687	687	687	687	687	687	687	687	687	688	689	687
16	687	687	687	687	687	687	687	687	687	688	688	688	687	687	686	686	686	686	686	687	687	687	687	687	687	688	686
17	687	687	687	687	687	687	687	688	688	688	688	688	687	686	686	686	685	685	685	685	686	686	685	685	687	688	685
18	685	684	684	684	684	683	683	684	684	684	684	683	682	682	681	681	681	680	680	680	680	679	679	679	682	685	679
19	679	679	679	679	678	678	678	678	678	678	678	678	677	676	676	675	675	676	676	676	677	677	677	676	677	679	675
20	676	675	675	674	674	675	676	676	675	676	676	676	675	675	675	675	676	676	676	677	677	677	677	677	676	677	674
21	677	677	677	677	677	678	678	679	679	679	680	680	679	679	679	680	680	680	681	681	682	682	683	683	680	683	677
22	683	683	684	684	685	685	685	685	686	687	687	687	687	686	686	687	687	687	687	688	688	688	688	689	686	689	683
23	689	688	688	689	689	689	689	690	690	690	691	690	690	689	689	689	689	689	689	689	689	688	688	688	689	691	688
24	688	687	687	687	687	687	687	687	687	688	688	687	687	686	686	686	685	685	686	686	686	686	686	686	687	688	685
25	686	686	686	686	686	687	687	688	688	688	689	688	688	687	687	687	687	687	687	687	687	687	687	687	687	689	686
26	687	687	687	687	687	687	687	687	687	688	688	688	687	686	686	686	686	686	686	686	686	686	687	687	687	688	686
27	687	687	687	687	687	686	687	687	687	688	688	687	687	686	686	686	686	685	685	686	686	686	686	686	686	688	685
28	686	685	685	685	685	684	684	684	684	685	685	684	683	682	682	682	682	682	682	681	682	682	682	682	683	686	681
29	682	681	681	681	681	681	682	682	683	683	683	683	683	682	682	683	683	683	684	684	685	685	685	686	683	686	681
30	686	686	686	686	687	687	687	687	688	688	689	688	687	687	687	687	687	687	687	687	688	688	688	688	687	689	686
31	688	688	687	687	687	687	687	687	687	688	688	687	686	686	685	685	685	685	685	685	685	685	685	685	686	688	685
Avg	684	684	684	684	684	684	684	685	685	685	685	685	684	684	684	684	684	684	684	684	684	684	684	684	684	--	--
Max	689	689	689	689	689	689	689	690	690	690	691	690	690	689	689	689	689	689	689	689	689	689	690	689	--	691	--
Min	676	675	675	674	674	675	676	676	675	676	676	676	675	675	675	675	675	676	676	676	677	677	677	676	--	--	674

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: Oct 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	12.6	18.2	9.1	9.1	9.1	10.2	11.3	13.6	18.4	9.2	9.3	10.5	10.5	10.5	9.4	10.5	12.8	17.5	19.7	19.7	15.0	13.8	12.6	13.7	12.8	19.7	9.1
2	12.6	10.3	12.5	13.7	13.6	11.3	10.2	13.6	21.8	9.2	10.4	11.6	10.5	11.7	14.0	14.0	14.0	16.3	16.2	13.9	11.5	10.3	6.9	6.9	12.4	21.8	6.9
3	11.4	10.3	8.0	8.0	10.2	9.1	17.0	13.7	12.6	11.5	20.8	7.0	5.8	9.3	14.1	21.1	24.6	12.8	18.6	15.1	13.9	11.6	18.4	18.4	13.5	24.6	5.8
4	19.5	20.6	23.9	22.7	20.3	23.7	19.1	23.8	54.7	19.5	18.4	16.1	21.9	20.8	28.9	26.6	31.2	36.8	29.8	28.6	25.1	27.2	36.1	94.4	28.7	94.4	16.1
5	51.5	123.0	115.0	98.9	74.2	32.1	63.1	27.7	3.3	5.6	10.1	36.3	10.3	18.3	4.6	6.9	11.4	11.4	11.3	23.7	10.1	12.4	30.4	38.3	34.6	123.0	3.3
6	157.0	14.6	7.8	4.5	4.5	3.4	3.4	2.2	5.6	11.3	14.8	11.4	5.8	4.6	2.3	1.2	7.0	38.1	8.0	8.0	5.7	6.8	7.9	9.1	14.4	157.0	1.2
7	10.2	7.9	7.9	10.2	11.3	9.0	21.4	27.1	42.1	27.6	6.9	11.6	10.5	8.2	11.7	20.0	14.0	9.3	8.1	12.7	12.7	10.3	8.0	6.9	13.6	42.1	6.9
8	9.2	10.4	8.0	5.7	8.0	10.2	10.2	13.7	13.8	12.7	12.8	17.5	24.5	28.0	65.4	--	30.3	18.6	15.1	15.1	17.4	13.9	23.1	26.4	17.8	65.4	5.7
9	10.3	10.3	6.9	4.6	4.6	4.6	8.0	11.4	--	10.4	11.6	44.2	139.0	80.9	176.0	128.0	319.0	290.0	163.0	62.0	49.1	31.9	27.2	19.2	70.1	319.0	4.6
10	14.6	20.2	22.5	16.8	28.0	35.7	19.0	17.6	6.6	6.6	6.6	18.7	23.1	17.8	11.1	8.9	6.7	18.9	22.2	8.9	11.0	11.0	11.0	9.9	15.6	35.7	6.6
11	5.5	5.5	6.6	6.6	6.6	6.6	10.9	12.1	12.2	11.2	6.8	6.8	5.7	7.9	12.5	13.7	13.6	13.6	12.4	10.1	10.1	6.7	5.6	7.8	9.0	13.7	5.5
12	6.7	4.5	4.5	5.6	4.4	5.6	5.6	6.7	13.6	14.8	10.3	9.2	10.4	10.4	12.8	13.9	11.5	12.6	13.7	16.0	14.8	10.2	7.9	9.1	9.8	16.0	4.4
13	11.3	11.3	9.0	9.0	11.3	12.4	10.1	12.5	14.8	12.6	10.3	11.5	10.4	9.2	12.7	19.6	16.1	12.6	10.3	11.4	13.7	12.5	11.3	13.6	12.1	19.6	9.0
14	12.4	10.1	11.2	13.4	12.3	11.1	12.2	11.2	11.3	13.6	12.5	9.1	11.4	11.5	9.2	10.3	12.6	12.5	13.6	14.7	12.4	13.6	13.5	11.2	12.0	14.7	9.1
15	10.1	8.9	10.0	8.9	6.7	7.8	7.8	10.1	11.3	17.1	13.7	24.0	16.1	20.7	18.4	13.8	19.5	16.0	15.9	18.1	19.2	18.1	15.8	13.5	14.2	24.0	6.7
16	10.1	16.7	8.9	8.9	8.9	6.7	6.7	18.9	19.0	10.1	10.2	8.0	9.1	9.2	6.9	6.9	8.0	9.1	12.4	14.7	14.6	14.6	19.1	10.0	11.1	19.1	6.7
17	10.0	6.7	4.5	6.7	6.6	3.3	3.3	7.8	4.5	1.1	6.8	10.2	10.3	18.3	18.4	12.6	19.5	20.5	22.7	21.5	15.8	13.6	12.4	13.6	11.3	22.7	1.1
18	18.0	5.6	6.7	10.1	11.1	8.9	8.9	11.2	19.2	20.4	8.0	5.7	4.6	8.1	10.4	10.4	18.4	22.8	20.5	14.7	15.8	11.3	5.6	10.1	11.9	22.8	4.6
19	24.8	4.5	6.8	4.5	1.1	3.4	4.5	5.6	9.0	10.2	9.1	10.3	8.1	4.6	5.8	8.1	8.1	10.3	13.7	14.8	13.6	10.2	6.8	4.5	8.4	24.8	1.1
20	2.3	3.4	6.8	9.0	8.9	5.6	5.6	8.9	5.7	5.7	11.4	12.6	12.7	11.5	8.1	6.9	8.1	10.3	11.4	13.7	13.7	13.6	13.6	13.6	9.3	13.7	2.3
21	10.2	9.0	7.9	7.9	9.0	7.8	10.1	10.1	12.4	11.4	11.5	11.5	12.7	13.9	10.4	8.1	10.4	12.6	14.9	21.7	18.1	13.6	11.3	6.8	11.4	21.7	6.8
22	1.1	1.1	6.8	11.3	9.0	9.0	12.3	19.1	22.6	27.3	25.1	18.4	18.5	11.6	10.5	7.0	18.6	8.1	6.9	8.0	10.3	10.2	10.2	11.3	12.3	27.3	1.1
23	11.3	12.4	18.1	12.4	13.6	14.7	19.2	18.1	27.3	34.4	24.2	23.2	25.6	12.9	11.7	17.6	12.9	12.8	10.4	10.4	12.7	13.8	11.4	9.1	16.3	34.4	9.1
24	12.6	14.9	18.2	10.2	12.4	12.4	16.9	13.6	19.5	16.1	16.2	19.7	16.3	12.9	10.5	19.8	17.4	20.8	20.7	17.3	20.6	17.1	13.6	18.2	16.2	20.8	10.2
25	11.4	10.2	12.5	10.2	5.6	6.8	5.6	6.8	11.4	11.4	8.0	11.5	13.8	11.5	10.4	11.5	16.1	13.7	10.3	11.4	13.6	19.2	13.6	12.4	11.2	19.2	5.6
26	11.3	7.9	7.9	10.2	6.8	5.6	6.7	7.9	7.9	9.1	13.7	25.3	8.1	8.1	9.3	9.3	6.9	8.1	12.6	11.4	10.2	11.4	10.2	10.2	9.8	25.3	5.6
27	11.3	12.5	10.2	6.8	7.9	7.9	5.6	7.9	13.6	14.9	12.7	10.4	19.8	7.0	9.4	11.7	10.5	20.9	13.9	15.0	16.1	14.9	14.9	12.6	12.0	20.9	5.6
28	10.3	8.0	8.0	12.5	13.6	11.3	12.5	11.3	6.8	10.3	14.9	14.9	29.9	29.9	43.7	17.2	18.3	74.4	82.2	123.0	117.0	61.3	18.1	9.1	31.6	123.0	6.8
29	9.1	6.8	3.4	4.5	6.7	9.0	7.8	3.4	4.5	5.7	6.8	6.9	9.2	67.6	38.6	37.3	40.5	42.6	26.8	21.2	24.5	24.5	22.2	15.5	18.5	67.6	3.4
30	18.8	13.3	13.2	11.0	12.1	12.1	11.0	17.7	13.3	12.2	12.2	13.4	7.8	6.7	9.0	11.2	16.8	15.6	15.6	13.3	12.2	12.2	13.3	13.3	12.8	18.8	6.7
31	14.4	12.2	9.9	9.9	7.7	7.6	8.7	9.9	11.1	--	11.2	12.3	11.3	12.4	13.6	20.3	18.0	11.2	12.3	16.7	13.4	14.5	12.2	10.0	12.2	20.3	7.6
Avg	17.5	13.9	13.3	12.4	11.8	10.5	12.1	12.7	15.0	13.1	12.2	14.8	17.2	16.7	20.3	17.5	25.6	27.5	22.1	20.2	18.8	15.7	14.3	15.4	16.3	--	--
Max	157.0	123.0	115.0	98.9	74.2	35.7	63.1	27.7	54.7	34.4	25.1	44.2	139.0	80.9	176.0	128.0	319.0	290.0	163.0	123.0	117.0	61.3	36.1	94.4	--	319.0	--
Min	1.1	1.1	3.4	4.5	1.1	3.3	3.3	2.2	3.3	1.1	6.6	5.7	4.6	4.6	2.3	1.2	6.7	8.1	6.9	8.0	5.7	6.7	5.6	4.5	--	--	1.1

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

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

Month: Nov 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	11.1	9.9	7.7	5.5	6.6	8.8	8.8	8.8	8.9	24.7	5.6	6.8	6.8	6.9	6.9	6.9	10.2	13.6	14.7	12.3	11.2	10.1	6.7	5.6	9.4	24.7	5.5
2	6.7	8.9	5.6	3.4	6.7	10.0	11.2	13.4	12.4	23.8	21.7	16.1	11.5	8.1	8.1	8.1	11.6	12.7	13.7	17.1	14.8	11.4	12.5	13.6	11.8	23.8	3.4
3	12.4	9.0	4.5	6.7	10.1	6.7	3.4	5.6	6.8	3.4	2.3	4.6	3.5	4.6	8.1	9.2	8.0	6.9	8.0	6.8	4.5	7.9	10.1	7.9	6.7	12.4	2.3
4	6.8	7.9	7.8	5.6	7.9	9.0	4.5	5.6	6.8	6.8	6.9	4.6	3.5	5.8	2.3	5.7	22.9	14.9	18.3	18.2	14.8	11.4	28.1	15.6	10.1	28.1	2.3
5	11.1	6.6	6.6	8.8	8.9	6.6	7.8	8.9	7.8	8.9	11.1	12.3	12.3	12.3	10.1	10.1	11.2	12.3	15.6	14.5	12.2	7.7	6.6	8.8	10.0	15.6	6.6
6	6.6	2.2	2.2	7.7	5.5	2.2	1.1	2.2	9.9	8.8	6.6	8.9	10.1	9.0	3.4	3.4	6.8	7.8	6.7	2.2	4.5	6.7	7.8	5.6	5.7	10.1	1.1
7	2.2	5.5	7.7	8.8	9.9	7.7	9.9	13.2	13.3	15.7	11.3	4.5	3.4	6.8	5.7	5.7	5.7	5.7	5.6	6.7	9.0	11.2	11.2	11.1	8.2	15.7	2.2
8	10.0	8.9	7.8	2.2	3.3	8.9	4.5	6.7	12.3	19.1	9.1	11.4	11.5	11.5	11.5	10.3	11.5	11.4	9.1	7.9	9.0	6.8	6.7	6.7	9.1	19.1	2.2
9	3.4	5.6	9.0	6.7	5.6	10.0	10.0	8.9	10.1	9.1	6.9	5.7	6.9	10.3	9.2	6.9	8.0	6.8	6.8	7.9	4.5	2.2	6.7	7.9	7.3	10.3	2.2
10	6.7	6.7	8.9	7.8	6.7	7.8	7.8	7.8	6.7	7.9	11.3	13.7	13.8	13.8	19.6	8.1	19.5	16.0	12.5	7.9	6.8	4.5	2.3	4.5	9.5	19.6	2.3
11	7.9	9.0	7.9	6.7	7.8	5.6	5.6	7.9	9.1	11.4	14.8	19.5	15.0	15.1	11.6	9.3	11.5	23.0	14.8	11.4	6.8	6.8	9.1	6.8	10.6	23.0	5.6
12	5.7	5.7	4.5	6.8	6.7	7.9	7.9	11.2	11.3	12.5	20.6	14.9	10.3	19.6	50.6	71.2	46.9	37.6	32.9	37.2	32.6	31.4	41.4	42.4	23.7	71.2	4.5
13	30.1	30.0	21.1	14.4	12.2	9.9	9.9	6.6	8.9	11.2	11.2	13.5	10.2	10.2	12.5	11.3	10.2	7.9	6.7	9.0	8.9	6.7	7.8	7.8	12.0	30.1	6.6
14	7.8	6.7	7.8	10.0	10.0	10.0	10.0	12.2	14.5	14.6	11.3	10.3	10.3	12.6	11.5	13.8	14.9	13.7	13.6	12.4	13.5	12.4	12.4	10.1	11.5	14.9	6.7
15	9.0	11.3	12.4	12.4	10.1	10.1	12.4	12.4	25.0	20.5	19.4	25.2	25.3	49.5	85.2	118.0	71.1	96.4	73.4	43.1	129.0	83.7	35.0	28.1	42.4	129.0	9.0
16	21.3	20.2	19.1	19.1	15.7	15.7	14.5	18.9	13.4	17.8	17.8	17.9	21.3	15.7	22.6	26.0	19.2	14.6	17.9	17.9	14.5	21.2	15.6	16.7	18.1	26.0	13.4
17	16.7	14.5	18.9	16.7	17.7	16.6	10.0	12.2	15.6	12.3	10.1	9.0	7.9	10.2	11.3	10.2	7.9	9.0	10.1	8.9	10.0	10.0	10.0	10.0	11.9	18.9	7.9
18	8.9	7.8	6.6	5.5	3.3	5.5	6.6	6.7	8.9	12.3	10.1	10.2	11.4	8.0	8.0	11.4	12.5	19.3	18.1	14.6	12.3	10.1	11.2	12.3	10.1	19.3	3.3
19	10.1	8.9	8.9	8.9	8.9	7.8	10.0	8.9	7.8	10.1	17.0	13.7	10.3	21.7	12.6	19.4	12.5	18.1	19.2	21.4	20.3	21.3	15.7	16.8	13.8	21.7	7.8
20	19.0	20.1	22.3	17.8	24.6	20.1	22.3	25.7	21.3	28.1	21.5	26.1	23.8	17.0	19.2	24.8	28.2	23.6	23.6	18.0	23.6	25.8	20.2	15.7	22.2	28.2	15.7
21	14.6	14.6	14.5	14.6	14.6	16.8	16.8	19.0	15.7	15.7	15.8	14.7	14.7	14.7	14.7	20.3	14.7	14.6	23.6	11.2	12.3	14.5	11.1	8.9	15.1	23.6	8.9
22	6.7	4.5	5.6	5.6	6.7	7.9	7.9	7.8	6.7	4.4	3.3	0.0	-3.3	-1.1	-1.1	-2.2	-1.1	0.0	2.2	3.3	6.6	11.0	12.1	7.7	4.2	12.1	-3.3
23	5.5	10.9	14.2	13.1	9.8	5.4	5.4	6.5	5.4	3.2	1.1	2.2	2.2	2.2	2.2	2.2	-2.2	-2.2	1.1	0.0	-1.1	0.0	2.2	2.2	3.8	14.2	-2.2
24	1.1	1.1	0.0	0.0	2.1	3.2	3.2	0.0	0.0	0.0	-1.1	1.1	1.1	3.2	4.3	2.2	3.2	3.2	4.3	5.4	5.4	3.2	3.2	5.4	2.3	5.4	-1.1
25	1.1	1.1	4.3	3.2	3.2	5.4	6.4	6.4	5.4	3.3	1.1	3.3	5.5	5.5	5.5	6.6	5.5	3.3	5.5	6.5	5.4	5.4	3.3	2.2	4.3	6.6	1.1
26	5.4	6.5	5.4	5.4	3.3	6.5	8.6	5.4	6.5	7.6	6.6	3.3	5.5	6.6	--	--	4.4	4.4	1.1	2.2	--	3.3	3.3	5.4	5.1	8.6	1.1
27	5.4	4.4	4.4	5.4	4.4	6.5	5.4	3.3	4.4	3.3	1.1	5.5	6.6	5.5	10.0	11.1	7.7	4.4	2.2	2.2	2.2	3.3	3.3	1.1	4.7	11.1	1.1
28	3.3	4.4	4.3	5.4	6.5	7.6	6.5	5.4	5.5	6.6	7.7	6.6	5.6	5.6	5.6	6.7	6.7	3.3	3.3	4.4	5.5	6.6	5.5	3.3	5.5	7.7	3.3
29	4.4	4.4	1.1	3.3	6.6	4.4	3.3	4.4	4.4	6.6	11.1	11.2	9.0	7.9	9.0	9.0	5.6	7.8	7.8	6.7	7.8	8.9	7.7	7.7	6.7	11.2	1.1
30	8.8	6.6	6.6	6.6	6.6	8.8	9.9	11.0	7.7	6.7	8.9	8.9	9.0	10.1	11.3	11.2	12.3	13.4	10.0	7.8	7.7	8.8	7.7	6.6	8.9	13.4	6.6
Avg	9.0	8.8	8.6	8.1	8.4	8.6	8.4	9.1	9.7	11.2	10.1	10.2	9.5	11.0	13.5	15.7	13.6	14.1	13.4	11.5	14.3	12.5	11.2	10.1	10.8	--	--
Max	30.1	30.0	22.3	19.1	24.6	20.1	22.3	25.7	25.0	28.1	21.7	26.1	25.3	49.5	85.2	118.0	71.1	96.4	73.4	43.1	129.0	83.7	41.4	42.4	--	129.0	--
Min	1.1	1.1	0.0	0.0	2.1	2.2	1.1	0.0	0.0	0.0	-1.1	0.0	-3.3	-1.1	-1.1	-2.2	-2.2	-2.2	1.1	0.0	-1.1	0.0	2.2	1.1	--	--	-3.3

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

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

Month: Dec 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	8.8	8.8	7.7	8.8	7.7	7.6	7.6	6.5	5.5	6.7	10.0	9.0	7.9	7.9	6.8	9.0	10.1	6.7	5.5	5.5	2.2	2.2	3.3	3.3	6.9	10.1	2.2
2	2.2	2.2	4.4	6.5	4.4	3.3	1.1	0.0	2.2	1.1	1.1	4.5	5.6	4.5	6.8	7.9	5.6	10.1	14.5	12.2	8.9	5.5	3.3	4.4	5.1	14.5	0.0
3	6.7	6.7	4.5	5.5	6.7	2.2	3.3	6.7	5.6	6.7	11.3	9.0	6.8	3.4	4.6	8.0	9.1	11.3	10.2	5.7	2.3	5.6	6.8	4.5	6.4	11.3	2.2
4	2.3	1.1	3.4	4.5	4.5	5.6	5.6	5.6	7.8	11.1	10.0	7.8	10.0	17.8	13.2	8.8	7.7	9.9	9.9	17.5	15.3	15.3	20.7	18.5	9.7	20.7	1.1
5	17.4	10.9	10.9	10.9	9.8	8.7	10.8	10.8	11.9	18.4	12.0	13.1	13.1	9.8	7.7	9.8	18.5	18.4	18.4	12.9	12.9	14.0	13.9	18.2	13.0	18.5	7.7
6	15.0	13.9	9.6	7.5	9.6	10.6	9.5	10.6	13.8	12.9	10.8	8.6	8.7	9.8	9.8	7.6	9.8	11.9	9.7	10.7	10.7	9.6	10.7	10.7	10.5	15.0	7.5
7	7.5	6.4	8.6	7.5	5.3	6.4	6.4	5.3	5.4	5.4	5.4	6.5	6.6	5.5	8.8	7.7	7.6	10.9	14.1	12.0	10.9	14.2	13.1	9.8	8.2	14.2	5.3
8	9.8	9.8	6.5	6.5	7.6	6.5	6.5	8.6	6.5	8.7	13.0	10.8	10.9	10.9	9.8	13.1	19.6	17.4	17.4	21.7	18.4	21.6	22.7	22.6	12.8	22.7	6.5
9	18.3	23.6	25.7	22.4	18.1	20.2	20.1	18.0	18.1	18.2	21.5	16.1	11.9	10.8	8.7	6.5	6.5	4.3	6.4	6.4	1.1	1.1	3.2	4.3	13.0	25.7	1.1
10	3.2	2.1	2.1	3.2	1.1	-1.1	3.2	6.4	26.6	18.2	10.7	18.4	25.0	12.0	10.9	12.0	14.2	13.1	9.8	6.5	4.3	6.5	8.7	6.5	9.3	26.6	-1.1
11	8.7	7.6	5.4	6.5	8.7	8.7	7.6	8.7	9.8	13.1	15.3	14.3	11.1	12.2	17.8	11.1	12.2	12.1	12.1	9.9	9.9	11.0	11.0	17.6	10.9	17.8	5.4
12	8.8	17.5	23.0	15.3	17.5	16.4	21.9	14.2	14.2	17.6	16.6	10.0	11.2	10.1	--	10.0	6.7	5.5	4.4	4.4	7.7	10.9	10.9	32.8	13.4	32.8	4.4
13	30.5	25.0	23.9	22.7	23.8	17.3	17.3	18.4	17.3	19.7	20.9	19.8	14.3	14.4	19.9	16.6	15.4	15.3	16.4	8.7	10.9	19.5	12.9	13.0	18.1	30.5	8.7
14	9.7	7.6	7.6	7.5	6.5	5.4	5.4	3.3	2.2	7.6	28.3	3.3	5.5	5.5	8.9	12.2	7.7	6.6	3.3	1.1	1.1	2.2	3.3	0.0	6.3	28.3	0.0
15	0.0	2.2	3.2	4.3	2.2	2.2	4.3	5.4	4.4	7.7	8.8	16.6	14.5	11.2	6.7	20.2	12.3	7.8	4.4	17.7	7.7	8.8	5.5	1.1	7.5	20.2	0.0
16	3.3	2.2	2.2	6.6	6.6	5.5	8.8	6.6	16.5	18.8	13.3	15.6	10.1	3.4	7.9	10.2	10.1	7.8	4.5	4.5	4.5	3.3	4.4	4.4	7.6	18.8	2.2
17	4.4	3.3	3.3	3.3	2.2	4.4	3.3	1.1	2.2	7.8	10.1	6.7	7.9	11.3	9.1	6.8	6.8	5.6	4.5	3.4	4.5	4.5	4.5	6.7	5.3	11.3	1.1
18	6.7	6.7	5.6	3.4	3.3	6.7	8.9	7.8	8.9	6.7	5.6	6.7	7.9	12.4	14.8	12.5	9.1	4.5	0.0	0.0	3.4	3.4	2.3	4.5	6.3	14.8	0.0
19	6.8	5.6	9.0	11.2	9.0	6.7	5.6	4.5	5.6	5.6	5.6	7.9	10.2	--	12.5	12.5	43.0	22.5	24.6	44.6	59.0	58.8	29.9	28.8	18.7	59.0	4.5
20	18.8	20.0	21.1	18.8	17.8	4.4	2.2	1.1	1.1	1.1	1.1	3.3	4.4	--	--	-2.2	1.1	4.4	6.6	4.4	1.1	1.1	1.1	1.1	6.1	21.1	-2.2
21	1.1	2.2	1.1	-2.2	-2.2	2.2	3.3	2.2	3.3	5.4	6.5	5.4	7.6	9.8	9.8	6.5	7.6	9.8	7.6	6.5	6.5	7.6	9.8	7.6	5.2	9.8	-2.2
22	5.4	4.3	4.3	4.3	6.4	8.6	10.7	8.6	7.5	7.6	4.4	3.3	4.4	3.3	4.4	7.7	8.7	7.6	8.7	8.6	9.7	9.7	6.5	5.4	6.7	10.7	3.3
23	6.5	7.5	6.5	4.3	1.1	0.0	2.2	4.3	4.3	5.4	5.4	3.3	3.3	3.3	2.2	2.2	3.3	3.3	2.2	3.3	4.4	2.2	4.4	2.2	3.6	7.5	0.0
24	-1.1	2.2	4.4	5.4	5.4	3.3	1.1	3.3	5.4	3.3	4.4	4.4	3.3	1.1	1.1	4.5	4.5	2.2	5.5	7.7	4.4	3.3	3.3	4.4	3.6	7.7	-1.1
25	22.0	24.2	49.5	52.6	32.8	21.8	22.9	0.0	1.1	1.1	1.1	2.2	1.1	1.1	0.0	1.1	3.3	2.2	-1.1	2.2	4.4	3.3	2.2	4.4	10.6	52.6	-1.1
26	6.5	18.5	20.6	28.2	30.3	29.2	30.3	24.9	25.0	25.0	18.5	20.8	22.0	14.4	47.7	15.5	15.5	15.4	15.4	15.4	17.6	7.7	23.1	1.1	20.4	47.7	1.1
27	5.5	7.6	4.4	5.4	6.5	9.8	9.8	7.6	25.1	18.6	16.5	--	14.4	8.9	6.7	11.1	12.2	11.1	12.1	9.9	7.7	7.7	9.9	7.6	10.3	25.1	4.4
28	8.7	10.9	9.8	10.9	10.9	12.0	14.2	13.1	12.0	11.0	18.7	16.6	13.4	7.8	5.6	9.0	10.0	10.0	19.9	12.1	12.1	12.1	9.9	6.6	11.6	19.9	5.6
29	5.5	5.5	6.6	5.4	6.5	8.7	10.9	10.9	8.8	18.8	28.7	25.5	6.7	5.6	3.4	3.4	3.3	4.4	5.5	6.6	7.7	8.8	5.5	2.2	8.5	28.7	2.2
30	2.2	2.2	2.2	1.1	2.2	2.2	1.1	3.2	2.2	4.4	6.6	6.6	5.6	2.2	5.6	8.9	8.9	11.0	9.9	6.6	5.5	4.4	4.4	4.4	4.7	11.0	1.1
31	4.4	4.4	4.4	2.2	0.0	4.4	9.8	9.8	7.6	8.8	11.0	13.3	13.3	11.2	10.1	7.9	5.6	6.7	7.7	7.7	8.8	8.8	7.7	8.8	7.7	13.3	0.0
Avg	8.2	8.8	9.7	9.7	8.8	8.1	8.9	7.7	9.3	10.4	11.4	10.3	9.6	8.3	9.7	9.0	10.2	9.4	9.4	9.6	9.2	9.5	9.0	8.6	9.3	--	--
Max	30.5	25.0	49.5	52.6	32.8	29.2	30.3	24.9	26.6	25.0	28.7	25.5	25.0	17.8	47.7	20.2	43.0	22.5	24.6	44.6	59.0	58.8	29.9	32.8	--	59.0	--
Min	-1.1	1.1	1.1	-2.2	-2.2	-1.1	1.1	0.0	1.1	1.1	1.1	2.2	1.1	1.1	0.0	-2.2	1.1	2.2	-1.1	0.0	1.1	1.1	1.1	0.0	--	--	-2.2

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

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

Month: Oct 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	5.0	5.0	3.0	2.0	4.0	4.0	3.0	5.0	7.0	4.0	1.0	3.0	5.0	3.0	3.0	5.0	4.0	2.0	2.0	0.0	2.0	4.0	2.0	4.0	3.4	7.0	0.0
2	3.0	1.0	3.0	2.0	2.0	6.0	4.0	2.0	4.0	4.0	4.0	6.0	6.0	3.0	1.0	5.0	7.0	6.0	6.0	4.0	2.0	3.0	3.0	1.0	3.7	7.0	1.0
3	1.0	3.0	3.0	3.0	4.0	3.0	3.0	3.0	3.0	2.0	2.0	3.0	2.0	4.0	4.0	3.0	4.0	4.0	3.0	2.0	2.0	3.0	4.0	3.0	3.0	4.0	1.0
4	3.0	5.0	6.0	6.0	7.0	7.0	5.0	6.0	8.0	8.0	6.0	6.0	5.0	4.0	4.0	5.0	7.0	9.0	7.0	6.0	6.0	6.0	5.0	5.0	5.9	9.0	3.0
5	7.0	7.0	6.0	5.0	6.0	4.0	8.0	11.0	6.0	5.0	5.0	5.0	4.0	4.0	3.0	3.0	4.0	2.0	1.0	2.0	2.0	2.0	3.0	5.0	4.6	11.0	1.0
6	25.0	16.0	1.0	3.0	1.0	4.0	6.0	3.0	3.0	3.0	4.0	6.0	3.0	1.0	3.0	2.0	1.0	5.0	5.0	3.0	2.0	2.0	4.0	6.0	4.7	25.0	1.0
7	4.0	4.0	5.0	3.0	2.0	2.0	4.0	4.0	4.0	5.0	5.0	3.0	2.0	1.0	2.0	2.0	2.0	3.0	4.0	4.0	5.0	5.0	5.0	4.0	3.5	5.0	1.0
8	3.0	3.0	3.0	4.0	4.0	3.0	4.0	4.0	5.0	4.0	6.0	6.0	4.0	5.0	--	10.0	9.0	2.0	1.0	3.0	2.0	0.0	2.0	5.0	4.0	10.0	0.0
9	6.0	5.0	3.0	3.0	4.0	4.0	4.0	5.0	--	5.0	3.0	1.0	4.0	6.0	--	7.0	25.0	19.0	18.0	10.0	9.0	8.0	8.0	8.0	7.5	25.0	1.0
10	7.0	6.0	6.0	7.0	6.0	9.0	9.0	8.0	6.0	3.0	6.0	7.0	7.0	6.0	3.0	6.0	6.0	5.0	4.0	4.0	5.0	3.0	4.0	5.0	5.8	9.0	3.0
11	4.0	7.0	6.0	4.0	3.0	3.0	4.0	4.0	3.0	3.0	2.0	2.0	4.0	4.0	6.0	6.0	4.0	1.0	2.0	2.0	2.0	3.0	5.0	3.0	3.6	7.0	1.0
12	1.0	2.0	1.0	0.0	1.0	1.0	2.0	4.0	5.0	5.0	3.0	5.0	4.0	2.0	2.0	3.0	3.0	2.0	3.0	6.0	8.0	5.0	3.0	3.0	3.1	8.0	0.0
13	5.0	5.0	4.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	6.0	7.0	6.0	4.0	2.0	4.0	6.0	3.0	1.0	4.0	4.0	5.0	5.0	2.0	4.4	7.0	1.0
14	6.0	7.0	5.0	4.0	5.0	4.0	5.0	6.0	5.0	5.0	5.0	5.0	6.0	6.0	4.0	5.0	5.0	4.0	4.0	5.0	6.0	7.0	6.0	5.0	5.2	7.0	4.0
15	5.0	5.0	4.0	3.0	3.0	3.0	3.0	5.0	6.0	5.0	4.0	4.0	4.0	6.0	5.0	2.0	4.0	5.0	4.0	4.0	6.0	5.0	2.0	3.0	4.2	6.0	2.0
16	5.0	4.0	2.0	3.0	5.0	5.0	6.0	5.0	4.0	3.0	1.0	3.0	2.0	-1.0	0.0	2.0	2.0	3.0	2.0	3.0	6.0	5.0	3.0	3.0	3.2	6.0	-1.0
17	6.0	6.0	4.0	1.0	1.0	5.0	6.0	5.0	2.0	2.0	5.0	6.0	7.0	8.0	6.0	6.0	6.0	6.0	6.0	5.0	4.0	5.0	6.0	5.0	5.0	8.0	1.0
18	2.0	3.0	5.0	3.0	1.0	3.0	5.0	7.0	7.0	6.0	6.0	5.0	3.0	3.0	4.0	4.0	4.0	6.0	7.0	6.0	4.0	4.0	3.0	3.0	4.3	7.0	1.0
19	7.0	6.0	2.0	-1.0	2.0	4.0	4.0	5.0	4.0	5.0	5.0	3.0	3.0	2.0	0.0	2.0	2.0	3.0	3.0	2.0	3.0	5.0	4.0	5.0	3.3	7.0	-1.0
20	5.0	2.0	2.0	2.0	0.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0	3.0	3.0	1.0	0.0	2.0	5.0	5.0	1.0	1.0	3.0	3.0	5.0	1.9	5.0	0.0
21	5.0	3.0	3.0	3.0	2.0	2.0	4.0	4.0	4.0	3.0	3.0	4.0	3.0	5.0	5.0	2.0	3.0	3.0	2.0	2.0	3.0	4.0	4.0	2.0	3.3	5.0	2.0
22	-1.0	0.0	2.0	3.0	2.0	1.0	1.0	3.0	4.0	4.0	6.0	7.0	6.0	6.0	4.0	2.0	3.0	4.0	4.0	3.0	2.0	1.0	1.0	3.0	3.0	7.0	-1.0
23	4.0	4.0	5.0	6.0	3.0	4.0	5.0	4.0	3.0	4.0	5.0	5.0	3.0	3.0	3.0	3.0	4.0	3.0	5.0	6.0	3.0	3.0	2.0	2.0	3.8	6.0	2.0
24	4.0	5.0	4.0	2.0	4.0	4.0	2.0	3.0	6.0	4.0	3.0	4.0	3.0	4.0	3.0	3.0	4.0	4.0	6.0	6.0	7.0	7.0	6.0	6.0	4.3	7.0	2.0
25	6.0	5.0	4.0	2.0	1.0	2.0	3.0	1.0	1.0	2.0	3.0	4.0	2.0	2.0	2.0	2.0	3.0	0.0	1.0	3.0	2.0	4.0	4.0	3.0	2.6	6.0	0.0
26	3.0	3.0	4.0	2.0	0.0	1.0	2.0	4.0	4.0	3.0	2.0	4.0	5.0	3.0	1.0	1.0	2.0	0.0	1.0	2.0	3.0	2.0	0.0	3.0	2.3	5.0	0.0
27	4.0	5.0	4.0	0.0	2.0	3.0	1.0	3.0	4.0	4.0	4.0	3.0	4.0	5.0	4.0	2.0	3.0	4.0	3.0	3.0	4.0	5.0	4.0	3.0	3.4	5.0	0.0
28	4.0	3.0	3.0	4.0	6.0	5.0	5.0	6.0	5.0	6.0	7.0	6.0	5.0	5.0	5.0	4.0	4.0	5.0	5.0	7.0	10.0	8.0	5.0	2.0	5.2	10.0	2.0
29	-1.0	2.0	2.0	0.0	2.0	2.0	1.0	3.0	4.0	2.0	-1.0	-1.0	0.0	3.0	3.0	4.0	5.0	3.0	4.0	5.0	4.0	2.0	2.0	4.0	2.3	5.0	-1.0
30	4.0	4.0	4.0	4.0	2.0	1.0	3.0	3.0	4.0	--	5.0	4.0	2.0	2.0	3.0	2.0	1.0	2.0	5.0	6.0	5.0	4.0	3.0	3.0	3.3	6.0	1.0
31	3.0	2.0	2.0	2.0	2.0	4.0	5.0	5.0	4.0	--	4.0	2.0	0.0	1.0	3.0	5.0	5.0	5.0	4.0	2.0	4.0	5.0	6.0	5.0	3.5	6.0	0.0
Avg	4.7	4.5	3.6	2.9	2.9	3.5	4.0	4.5	4.3	3.9	3.9	4.1	3.8	3.7	3.1	3.6	4.7	4.1	4.1	3.9	4.1	4.1	3.8	3.8	3.9	--	--
Max	25.0	16.0	6.0	7.0	7.0	9.0	9.0	11.0	8.0	8.0	7.0	7.0	7.0	8.0	6.0	10.0	25.0	19.0	18.0	10.0	10.0	8.0	8.0	8.0	--	25.0	--
Min	-1.0	0.0	1.0	-1.0	0.0	0.0	1.0	1.0	0.0	0.0	-1.0	-1.0	0.0	-1.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0	1.0	--	--	-1.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

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

Month: Nov 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	3.0	3.0	5.0	5.0	5.0	5.0	3.0	2.0	3.0	4.0	3.0	2.0	2.0	2.0	0.0	0.0	2.0	2.0	3.0	3.0	4.0	5.0	4.0	3.0	3.0	5.0	0.0
2	4.0	5.0	4.0	4.0	4.0	3.0	1.0	2.0	4.0	5.0	3.0	1.0	2.0	4.0	3.0	2.0	3.0	2.0	1.0	2.0	4.0	4.0	4.0	2.0	3.0	5.0	1.0
3	1.0	2.0	2.0	1.0	1.0	2.0	2.0	2.0	5.0	5.0	3.0	1.0	0.0	2.0	3.0	0.0	0.0	1.0	0.0	0.0	1.0	1.0	1.0	3.0	1.6	5.0	0.0
4	2.0	2.0	2.0	2.0	3.0	4.0	4.0	1.0	1.0	3.0	5.0	3.0	0.0	3.0	3.0	2.0	3.0	2.0	3.0	3.0	1.0	2.0	5.0	7.0	2.8	7.0	0.0
5	6.0	5.0	5.0	5.0	2.0	2.0	5.0	7.0	6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0	6.0	7.0	8.0	7.0	5.0	3.0	5.0	4.0	5.5	8.0	2.0
6	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	1.0	2.0	1.0	-3.0	-2.0	0.0	2.0	3.0	4.0	3.0	-1.0	0.0	0.6	4.0	-3.0
7	1.0	3.0	2.0	0.0	2.0	3.0	2.0	1.0	1.0	0.0	2.0	3.0	2.0	0.0	-1.0	2.0	1.0	0.0	2.0	2.0	3.0	2.0	2.0	3.0	1.6	3.0	-1.0
8	2.0	1.0	0.0	2.0	3.0	4.0	3.0	-1.0	1.0	5.0	4.0	3.0	2.0	0.0	0.0	3.0	2.0	1.0	3.0	3.0	2.0	1.0	0.0	3.0	2.0	5.0	-1.0
9	4.0	3.0	1.0	2.0	2.0	3.0	5.0	2.0	2.0	4.0	5.0	4.0	2.0	2.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0	2.0	1.0	0.0	2.6	5.0	0.0
10	3.0	6.0	3.0	3.0	5.0	4.0	4.0	4.0	4.0	3.0	5.0	6.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	4.0	4.0	3.0	3.0	3.0	3.6	6.0	2.0
11	4.0	4.0	3.0	3.0	1.0	1.0	4.0	5.0	5.0	5.0	3.0	4.0	5.0	5.0	3.0	2.0	1.0	3.0	4.0	4.0	4.0	4.0	3.0	5.0	3.5	5.0	1.0
12	6.0	2.0	1.0	2.0	1.0	2.0	2.0	3.0	5.0	2.0	2.0	2.0	1.0	1.0	2.0	5.0	7.0	6.0	4.0	4.0	4.0	3.0	2.0	3.0	3.0	7.0	1.0
13	5.0	5.0	4.0	4.0	2.0	2.0	5.0	3.0	4.0	5.0	2.0	3.0	4.0	3.0	2.0	2.0	2.0	3.0	2.0	1.0	0.0	1.0	3.0	3.0	2.9	5.0	0.0
14	3.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0	6.0	5.0	4.0	4.0	3.0	4.0	5.0	6.0	6.0	3.0	3.0	5.0	4.0	3.0	4.0	4.0	4.4	6.0	3.0
15	6.0	5.0	5.0	5.0	5.0	6.0	7.0	6.0	4.0	6.0	6.0	5.0	5.0	--	5.0	7.0	7.0	8.0	8.0	6.0	10.0	12.0	10.0	9.0	6.7	12.0	4.0
16	7.0	7.0	8.0	7.0	7.0	7.0	6.0	6.0	6.0	7.0	8.0	9.0	8.0	6.0	6.0	6.0	5.0	7.0	6.0	5.0	6.0	5.0	6.0	9.0	6.7	9.0	5.0
17	7.0	5.0	7.0	7.0	6.0	7.0	6.0	4.0	5.0	6.0	6.0	7.0	6.0	5.0	5.0	4.0	3.0	3.0	4.0	2.0	3.0	6.0	5.0	4.0	5.1	7.0	2.0
18	5.0	6.0	7.0	6.0	4.0	5.0	6.0	6.0	6.0	5.0	6.0	5.0	6.0	6.0	4.0	7.0	7.0	6.0	6.0	5.0	5.0	5.0	4.0	4.0	5.5	7.0	4.0
19	6.0	7.0	6.0	6.0	4.0	3.0	5.0	5.0	6.0	6.0	4.0	4.0	3.0	7.0	8.0	4.0	1.0	2.0	3.0	4.0	6.0	6.0	4.0	5.0	4.8	8.0	1.0
20	7.0	4.0	3.0	6.0	8.0	9.0	8.0	7.0	7.0	7.0	7.0	8.0	8.0	6.0	6.0	6.0	7.0	6.0	6.0	6.0	6.0	6.0	3.0	3.0	6.3	9.0	3.0
21	5.0	5.0	6.0	7.0	7.0	6.0	6.0	3.0	4.0	7.0	5.0	--	3.0	4.0	4.0	4.0	4.0	5.0	4.0	4.0	5.0	5.0	8.0	6.0	5.1	8.0	3.0
22	4.0	4.0	2.0	2.0	2.0	4.0	6.0	4.0	4.0	4.0	2.0	1.0	-1.0	0.0	1.0	1.0	0.0	0.0	1.0	2.0	4.0	5.0	2.0	2.0	2.3	6.0	-1.0
23	5.0	6.0	7.0	6.0	3.0	3.0	4.0	6.0	6.0	3.0	2.0	2.0	2.0	1.0	2.0	2.0	-1.0	1.0	3.0	2.0	1.0	0.0	3.0	5.0	3.1	7.0	-1.0
24	2.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	1.0	2.0	2.0	0.0	0.0	2.0	4.0	4.0	4.0	3.0	2.0	3.0	4.0	4.0	3.0	4.0	1.9	4.0	0.0
25	6.0	6.0	5.0	4.0	3.0	2.0	5.0	6.0	5.0	3.0	4.0	4.0	4.0	5.0	2.0	1.0	2.0	5.0	5.0	4.0	2.0	2.0	3.0	4.0	3.8	6.0	1.0
26	5.0	3.0	4.0	4.0	4.0	5.0	3.0	4.0	6.0	5.0	3.0	3.0	4.0	5.0	--	--	4.0	2.0	1.0	3.0	4.0	3.0	2.0	3.0	3.6	6.0	1.0
27	5.0	3.0	2.0	3.0	3.0	4.0	4.0	1.0	2.0	4.0	3.0	1.0	2.0	1.0	0.0	0.0	3.0	3.0	2.0	2.0	1.0	2.0	2.0	1.0	2.3	5.0	0.0
28	2.0	3.0	3.0	5.0	4.0	3.0	2.0	1.0	2.0	2.0	2.0	2.0	4.0	5.0	3.0	2.0	1.0	2.0	4.0	5.0	3.0	3.0	3.0	5.0	3.0	5.0	1.0
29	5.0	4.0	3.0	2.0	3.0	4.0	4.0	3.0	3.0	5.0	4.0	2.0	3.0	4.0	3.0	4.0	6.0	7.0	6.0	5.0	4.0	2.0	1.0	3.0	3.8	7.0	1.0
30	5.0	6.0	5.0	6.0	6.0	4.0	5.0	6.0	5.0	2.0	2.0	5.0	7.0	6.0	2.0	2.0	5.0	5.0	7.0	6.0	3.0	4.0	3.0	2.0	4.5	7.0	2.0
Avg	4.2	4.0	3.7	3.8	3.5	3.8	4.0	3.5	4.0	4.2	3.8	3.5	3.3	3.5	3.1	3.0	3.1	3.3	3.6	3.6	3.6	3.6	3.3	3.7	3.6	--	--
Max	7.0	7.0	8.0	7.0	8.0	9.0	8.0	7.0	7.0	7.0	8.0	9.0	8.0	7.0	8.0	7.0	7.0	8.0	8.0	7.0	10.0	12.0	10.0	9.0	--	12.0	--
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.0	1.0	0.0	0.0	0.0	-1.0	0.0	-1.0	-3.0	-2.0	0.0	0.0	0.0	0.0	0.0	-1.0	0.0	--	--	-3.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

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

Month: Dec 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	3.0	6.0	6.0	7.0	5.0	3.0	5.0	6.0	5.0	3.0	3.0	4.0	3.0	3.0	4.0	4.0	5.0	4.0	4.0	4.0	3.0	3.0	3.0	2.0	4.1	7.0	2.0
2	1.0	4.0	4.0	2.0	2.0	1.0	-1.0	0.0	3.0	5.0	3.0	2.0	2.0	4.0	4.0	2.0	4.0	4.0	4.0	4.0	5.0	3.0	3.0	4.0	2.9	5.0	-1.0
3	4.0	4.0	2.0	1.0	2.0	3.0	3.0	4.0	5.0	6.0	5.0	3.0	3.0	2.0	3.0	2.0	2.0	5.0	3.0	2.0	2.0	1.0	3.0	3.0	3.0	6.0	1.0
4	1.0	-1.0	-2.0	1.0	3.0	2.0	1.0	4.0	6.0	6.0	4.0	2.0	4.0	4.0	5.0	3.0	1.0	2.0	4.0	6.0	7.0	7.0	8.0	9.0	3.6	9.0	-2.0
5	6.0	4.0	4.0	3.0	3.0	2.0	3.0	5.0	4.0	3.0	3.0	4.0	4.0	3.0	3.0	5.0	3.0	4.0	5.0	4.0	4.0	3.0	5.0	6.0	3.9	6.0	2.0
6	6.0	7.0	6.0	2.0	1.0	4.0	4.0	4.0	6.0	5.0	2.0	3.0	5.0	6.0	6.0	3.0	2.0	4.0	6.0	5.0	4.0	5.0	5.0	4.0	4.4	7.0	1.0
7	4.0	5.0	4.0	3.0	5.0	4.0	3.0	3.0	4.0	5.0	5.0	5.0	2.0	3.0	2.0	2.0	5.0	4.0	3.0	5.0	5.0	4.0	4.0	4.0	3.9	5.0	2.0
8	5.0	4.0	4.0	6.0	3.0	1.0	2.0	5.0	4.0	3.0	3.0	3.0	5.0	4.0	3.0	4.0	2.0	4.0	6.0	3.0	3.0	5.0	6.0	6.0	3.9	6.0	1.0
9	6.0	4.0	6.0	9.0	8.0	6.0	7.0	7.0	7.0	7.0	5.0	5.0	4.0	4.0	4.0	2.0	1.0	2.0	1.0	0.0	2.0	2.0	2.0	2.0	4.3	9.0	0.0
10	2.0	4.0	2.0	2.0	2.0	1.0	1.0	0.0	3.0	5.0	3.0	3.0	4.0	2.0	1.0	-1.0	-1.0	3.0	2.0	0.0	1.0	3.0	3.0	3.0	2.0	5.0	-1.0
11	4.0	4.0	2.0	1.0	1.0	0.0	1.0	2.0	2.0	2.0	2.0	1.0	2.0	3.0	2.0	0.0	3.0	3.0	3.0	2.0	1.0	4.0	4.0	4.0	2.2	4.0	0.0
12	3.0	4.0	6.0	5.0	5.0	6.0	6.0	7.0	8.0	4.0	2.0	4.0	4.0	3.0	--	3.0	3.0	5.0	--	--	--	--	--	--	--	8.0	2.0
13	--	--	--	--	--	--	--	--	--	--	--	--	7.0	7.0	7.0	10.0	11.0	8.0	8.0	8.0	7.0	5.0	6.0	6.0	--	11.0	5.0
14	4.0	6.0	6.0	6.0	6.0	3.0	3.0	4.0	2.0	3.0	6.0	5.0	2.0	1.0	1.0	2.0	2.0	3.0	4.0	3.0	1.0	3.0	2.0	0.0	3.3	6.0	0.0
15	2.0	5.0	5.0	4.0	5.0	5.0	3.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	3.0	2.0	2.0	3.0	4.0	2.0	0.0	2.0	4.0	4.0	2.8	5.0	0.0
16	4.0	2.0	-1.0	0.0	3.0	3.0	3.0	3.0	2.0	3.0	4.0	4.0	3.0	4.0	4.0	3.0	5.0	6.0	3.0	3.0	5.0	6.0	6.0	6.0	3.5	6.0	-1.0
17	4.0	1.0	3.0	4.0	5.0	4.0	3.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	2.0	3.0	2.0	0.0	-1.0	1.0	2.0	-1.0	1.0	1.6	5.0	-1.0
18	2.0	1.0	1.0	-1.0	1.0	2.0	3.0	4.0	3.0	3.0	3.0	3.0	1.0	0.0	3.0	3.0	2.0	4.0	2.0	3.0	2.0	0.0	0.0	1.0	1.9	4.0	-1.0
19	2.0	3.0	5.0	6.0	5.0	5.0	7.0	5.0	3.0	7.0	9.0	5.0	2.0	--	3.0	3.0	6.0	6.0	5.0	4.0	9.0	23.0	9.0	10.0	6.2	23.0	2.0
20	8.0	6.0	7.0	9.0	8.0	5.0	1.0	4.0	5.0	3.0	3.0	2.0	1.0	--	--	4.0	4.0	5.0	5.0	3.0	2.0	2.0	1.0	1.0	4.1	9.0	1.0
21	1.0	1.0	5.0	3.0	2.0	3.0	2.0	2.0	4.0	5.0	3.0	6.0	7.0	7.0	9.0	8.0	9.0	6.0	4.0	7.0	6.0	6.0	7.0	7.0	5.0	9.0	1.0
22	8.0	7.0	6.0	8.0	8.0	6.0	5.0	6.0	9.0	9.0	5.0	4.0	5.0	5.0	5.0	6.0	8.0	7.0	7.0	9.0	7.0	7.0	8.0	5.0	6.7	9.0	4.0
23	6.0	7.0	6.0	5.0	2.0	2.0	2.0	3.0	4.0	3.0	1.0	1.0	2.0	4.0	2.0	2.0	3.0	4.0	2.0	3.0	5.0	4.0	4.0	3.0	3.3	7.0	1.0
24	2.0	3.0	3.0	2.0	0.0	0.0	3.0	3.0	3.0	3.0	1.0	2.0	3.0	3.0	2.0	2.0	3.0	4.0	5.0	4.0	3.0	2.0	4.0	4.0	2.7	5.0	0.0
25	4.0	7.0	16.0	40.0	33.0	35.0	42.0	8.0	6.0	4.0	4.0	3.0	1.0	2.0	1.0	1.0	3.0	3.0	1.0	1.0	2.0	1.0	1.0	1.0	9.2	42.0	1.0
26	2.0	4.0	4.0	4.0	6.0	6.0	4.0	3.0	4.0	5.0	4.0	3.0	5.0	5.0	5.0	4.0	3.0	5.0	5.0	4.0	3.0	2.0	3.0	2.0	4.0	6.0	2.0
27	2.0	2.0	2.0	1.0	0.0	1.0	-1.0	-2.0	2.0	4.0	3.0	--	3.0	2.0	2.0	4.0	2.0	1.0	3.0	4.0	4.0	4.0	5.0	3.0	2.2	5.0	-2.0
28	3.0	5.0	5.0	3.0	3.0	6.0	5.0	3.0	3.0	4.0	6.0	6.0	4.0	4.0	4.0	4.0	3.0	5.0	5.0	6.0	7.0	4.0	2.0	4.0	4.3	7.0	2.0
29	5.0	3.0	4.0	4.0	2.0	4.0	6.0	5.0	4.0	4.0	4.0	3.0	2.0	1.0	2.0	0.0	0.0	3.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0	6.0	0.0
30	2.0	3.0	3.0	0.0	0.0	2.0	2.0	3.0	4.0	5.0	4.0	3.0	1.0	-2.0	-1.0	2.0	1.0	1.0	3.0	4.0	5.0	4.0	2.0	3.0	2.3	5.0	-2.0
31	5.0	3.0	2.0	3.0	3.0	5.0	6.0	5.0	5.0	4.0	4.0	3.0	3.0	6.0	5.0	5.0	3.0	2.0	3.0	5.0	5.0	4.0	3.0	2.0	3.9	6.0	2.0
Avg	3.7	3.9	4.2	4.8	4.4	4.3	4.5	3.7	4.1	4.2	3.5	3.2	3.1	3.2	3.3	3.1	3.3	3.9	3.8	3.7	3.8	4.1	3.8	3.8	3.7	--	--
Max	8.0	7.0	16.0	40.0	33.0	35.0	42.0	8.0	9.0	9.0	9.0	6.0	7.0	7.0	9.0	10.0	11.0	8.0	8.0	9.0	9.0	23.0	9.0	10.0	--	42.0	--
Min	1.0	-1.0	-2.0	-1.0	0.0	0.0	-1.0	-2.0	1.0	1.0	0.0	0.0	0.0	-2.0	-1.0	-1.0	-1.0	1.0	0.0	-1.0	0.0	0.0	-1.0	0.0	--	--	-2.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

"Component, Channel: Table126, conc_PM10_µg/m^3 STP"

Month: Oct 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	17.6	11.0	16.5	13.2	20.8	26.3	24.1	58.3	14.4	14.5	14.6	25.9	33.9	24.9	31.7	13.6	19.3	13.6	41.6	21.3	23.4	12.2	13.3	14.4	21.7	58.3	11.0
2	14.4	17.6	13.2	12.1	13.2	18.6	29.6	16.5	14.4	14.5	19.1	20.2	18.0	30.5	38.5	19.2	13.6	18.0	15.7	30.2	20.1	8.9	8.9	8.9	18.1	38.5	8.9
3	11.1	13.3	8.8	7.7	16.5	9.9	18.6	14.3	14.5	10.1	6.7	9.0	18.1	26.1	25.0	27.3	19.3	6.8	19.1	17.9	22.3	14.5	16.6	18.8	15.5	27.3	6.7
4	27.6	24.2	20.9	24.2	19.7	28.3	20.7	26.3	22.1	28.8	21.2	27.9	34.7	34.7	39.3	28.0	34.7	41.2	37.7	23.2	38.4	29.6	48.2	125.0	33.6	125.0	19.7
5	39.2	57.6	79.2	63.9	48.6	36.7	14.1	11.9	5.4	6.6	12.0	11.0	8.8	11.1	7.8	4.5	5.6	6.6	16.5	24.1	13.1	4.4	45.9	16.4	23.0	79.2	4.4
6	25.1	6.5	4.4	1.1	3.3	6.5	7.6	17.5	14.3	11.0	11.0	13.3	5.6	4.5	6.8	4.5	4.5	6.7	6.7	7.8	5.5	6.6	6.6	4.4	8.0	25.1	1.1
7	6.6	5.5	5.5	7.7	6.6	6.6	17.6	8.8	8.9	19.0	13.5	10.1	8.0	9.1	11.4	8.0	7.9	13.5	24.7	16.8	14.5	11.2	10.0	11.1	10.9	24.7	5.5
8	10.0	7.7	8.8	10.0	10.0	14.3	48.3	35.4	15.6	--	35.0	36.2	27.2	30.6	72.7	35.2	29.5	20.3	--	--	--	--	--	--	--	72.7	7.7
9	8.8	--	--	9.9	7.7	8.8	23.1	52.9	16.7	15.7	--	--	121.0	--	135.0	--	--	--	--	--	56.4	37.4	28.5	25.2	--	135.0	7.7
10	21.8	21.8	14.1	15.2	33.6	31.3	19.4	27.6	15.9	15.9	17.0	21.3	27.9	17.2	23.7	10.8	10.8	9.7	9.7	10.7	8.6	8.6	7.5	6.4	16.9	33.6	6.4
11	6.4	7.5	6.4	7.5	8.5	6.4	6.4	7.5	9.7	9.7	8.7	7.7	9.9	9.9	--	9.9	16.5	7.7	10.9	10.9	10.8	11.9	10.8	10.8	9.2	16.5	6.4
12	11.9	7.6	6.5	6.5	2.2	3.3	5.4	5.4	7.7	6.6	6.7	9.0	12.3	10.1	10.1	16.8	10.1	12.3	27.7	28.7	17.6	14.3	20.8	14.2	11.4	28.7	2.2
13	18.6	7.6	12.0	24.0	13.0	12.0	12.0	12.0	13.2	14.4	14.5	12.3	12.3	12.3	16.8	17.9	13.4	13.4	38.8	31.9	12.1	18.6	14.2	17.4	16.0	38.8	7.6
14	13.1	13.0	19.5	7.6	18.3	15.1	14.0	30.2	10.9	12.0	19.8	15.5	15.5	18.9	18.9	12.2	21.1	22.1	30.7	14.3	18.5	15.2	14.1	9.8	16.7	30.7	7.6
15	6.5	8.7	10.9	9.8	9.8	7.6	7.6	18.4	18.6	11.0	13.3	15.5	13.3	24.5	31.2	20.0	20.0	15.5	26.4	32.9	21.8	18.5	16.3	22.7	16.7	32.9	6.5
16	13.0	14.0	16.2	8.6	7.5	9.6	17.2	41.0	14.1	15.3	13.2	9.9	26.5	23.3	16.6	12.2	8.9	8.8	20.8	13.1	14.1	27.0	10.8	30.2	16.3	41.0	7.5
17	7.5	9.7	8.6	6.5	6.5	6.5	18.2	23.7	4.3	6.6	9.9	12.2	25.5	18.9	24.5	23.3	22.2	17.7	25.3	21.9	15.3	31.5	9.8	19.5	15.6	31.5	4.3
18	16.2	15.1	13.0	18.3	12.9	18.3	18.2	30.2	21.8	11.0	9.9	7.8	7.8	6.7	29.0	16.7	18.9	24.3	36.3	18.6	33.8	23.9	7.6	8.7	17.7	36.3	6.7
19	7.6	17.3	5.4	5.4	8.7	18.3	14.0	14.1	12.0	6.6	6.6	12.2	16.7	11.2	6.7	6.7	22.4	11.1	19.9	57.2	29.6	10.9	10.9	10.9	14.3	57.2	5.4
20	12.0	11.9	11.9	9.8	9.8	9.7	29.1	7.6	6.6	8.8	11.1	11.1	10.0	11.2	13.4	10.1	7.8	10.0	29.9	29.7	43.8	10.9	10.9	10.9	14.1	43.8	6.6
21	37.0	6.5	7.6	41.2	10.8	17.3	34.5	65.1	11.0	13.3	13.3	34.5	16.8	14.6	38.1	9.0	11.2	23.4	25.5	28.6	22.0	28.4	21.8	20.8	23.0	65.1	6.5
22	9.9	7.7	7.7	8.8	12.1	9.9	18.6	41.4	29.7	54.1	27.8	24.6	16.8	42.8	11.3	9.0	7.9	10.1	10.1	6.7	8.9	10.0	12.2	21.1	17.5	54.1	6.7
23	17.7	25.5	16.6	15.4	14.3	16.6	17.7	34.2	42.1	36.7	45.9	27.0	19.2	12.5	12.5	11.4	9.1	10.2	9.0	12.3	9.0	6.7	8.9	10.0	18.4	45.9	6.7
24	10.0	17.8	16.7	14.4	12.2	13.2	23.1	12.2	27.8	11.2	13.5	16.9	12.5	12.5	12.4	20.3	25.8	31.3	44.6	27.7	19.9	13.2	13.2	13.1	18.1	44.6	10.0
25	19.7	12.0	13.1	12.0	9.8	27.1	33.6	49.9	--	--	15.5	22.2	15.6	17.9	29.1	24.6	10.0	24.4	15.5	12.1	12.0	13.1	33.8	7.6	19.6	49.9	7.6
26	6.6	7.7	6.6	5.4	9.8	9.8	5.5	6.6	8.8	8.8	10.0	12.2	10.1	5.6	4.5	4.5	5.6	10.0	83.2	18.8	14.3	13.3	8.8	6.6	11.8	83.2	4.5
27	6.6	18.8	18.8	52.9	18.7	41.8	14.3	9.9	9.9	15.5	12.3	6.7	7.9	12.5	12.5	13.6	11.3	12.4	24.6	36.6	15.5	34.2	52.9	8.8	19.5	52.9	6.6
28	11.0	12.1	13.2	11.0	6.6	9.9	12.0	26.3	9.9	13.3	16.6	7.8	35.7	28.0	44.7	15.6	13.3	84.3	84.0	105.0	90.0	60.4	24.1	6.6	30.9	105.0	6.6
29	3.3	3.3	1.1	2.2	6.5	17.3	19.4	14.0	14.2	--	10.0	20.0	24.4	75.5	60.5	39.4	35.9	33.6	29.2	31.3	22.6	32.2	28.9	15.0	23.5	75.5	1.1
30	15.0	12.8	8.5	9.6	20.2	20.2	12.7	23.4	17.1	20.4	34.4	20.5	--	11.9	29.3	11.9	11.9	10.8	18.3	16.1	4.3	7.5	9.6	8.5	15.4	34.4	4.3
31	8.5	10.6	10.6	9.6	9.6	7.5	8.5	10.6	12.8	12.9	10.8	8.7	9.8	18.6	19.7	16.4	13.1	16.3	16.2	12.9	17.2	11.8	13.9	17.0	12.6	19.7	7.5
Avg	14.2	13.8	13.4	14.6	13.1	15.6	18.2	24.3	14.8	15.2	15.8	16.3	20.7	19.6	27.8	15.8	15.4	18.2	27.5	24.8	21.9	18.2	18.0	17.3	17.5	--	--
Max	39.2	57.6	79.2	63.9	48.6	41.8	48.3	65.1	42.1	54.1	45.9	36.2	121.0	75.5	135.0	39.4	35.9	84.3	84.0	105.0	90.0	60.4	52.9	125.0	--	135.0	--
Min	3.3	3.3	1.1	1.1	2.2	3.3	5.4	5.4	4.3	6.6	6.6	6.7	5.6	4.5	4.5	4.5	4.5	6.6	6.7	6.7	4.3	4.4	6.6	4.4	--	--	1.1

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

"Component, Channel: Table126, conc_PM10_µg/m^3 STP"

Month: Nov 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	10.6	10.6	10.6	11.7	11.7	10.6	9.6	17.1	10.8	18.4	24.0	7.7	3.3	3.3	10.0	12.2	13.2	27.4	20.7	29.3	6.5	9.8	8.7	1.1	12.5	29.3	1.1
2	2.2	12.0	7.6	27.3	18.5	79.7	27.4	18.6	56.0	54.0	33.2	28.9	10.0	12.3	12.4	9.0	11.2	11.2	8.9	12.2	14.4	13.2	18.7	17.6	21.5	79.7	2.2
3	5.5	8.8	7.7	3.3	3.3	3.3	2.2	4.4	4.4	2.2	3.3	6.7	3.4	1.1	8.9	13.4	8.9	7.8	10.0	14.3	18.6	9.8	8.7	9.8	7.1	18.6	1.1
4	7.6	4.4	7.6	9.8	5.5	6.5	8.7	10.8	12.0	5.5	1.1	4.5	4.5	4.5	6.7	10.0	17.8	16.6	14.4	25.3	16.5	17.5	28.2	14.0	10.8	28.2	1.1
5	12.9	10.7	9.7	7.5	7.5	6.4	6.4	5.3	6.4	8.6	12.9	15.1	13.0	8.7	20.7	14.2	14.1	17.3	23.7	22.6	17.2	-1.1	2.1	4.3	11.1	23.7	-1.1
6	16.0	2.1	0.0	0.0	4.2	8.4	11.6	47.4	35.0	6.4	4.3	2.2	3.3	6.6	12.1	7.7	2.2	1.1	3.3	6.5	5.4	4.3	4.3	7.6	8.4	47.4	0.0
7	18.5	5.4	5.4	9.8	11.9	27.0	11.9	46.3	57.2	22.8	8.7	9.9	7.7	7.7	8.9	4.4	3.3	4.4	4.4	6.6	7.7	9.8	10.9	9.8	13.3	57.2	3.3
8	9.8	6.5	3.3	4.4	5.4	6.5	6.5	7.6	9.8	9.8	11.0	12.2	11.1	13.3	24.5	6.7	6.7	17.7	45.1	182.0	182.0	240.0	294.0	358.0	61.4	358.0	3.3
9	169.0	45.4	4.3	4.3	7.6	13.0	86.3	--	--	--	--	--	11.1	52.3	13.4	11.2	6.7	6.6	8.8	6.6	4.4	6.5	7.6	6.5	24.8	169.0	4.3
10	4.3	5.4	7.6	6.5	6.5	8.7	11.9	11.9	9.8	10.9	11.0	13.3	14.5	12.3	19.0	41.3	12.2	8.9	6.7	6.6	5.5	5.5	5.5	5.5	10.5	41.3	4.3
11	5.5	6.6	8.7	6.6	2.2	6.5	8.8	41.4	20.8	14.4	13.3	17.8	15.7	12.4	27.0	4.5	6.7	11.2	11.1	10.0	9.9	8.8	6.6	7.7	11.8	41.4	2.2
12	5.5	4.4	6.6	7.7	10.9	10.9	19.7	53.8	14.3	18.8	12.2	7.8	6.7	11.2	40.2	62.3	45.6	34.3	33.1	43.9	29.5	29.4	39.2	83.7	26.3	83.7	4.4
13	136.0	318.0	128.0	99.4	76.7	52.9	43.1	21.6	22.7	33.6	28.3	16.4	5.5	32.0	6.6	6.6	6.6	7.7	9.8	10.9	8.7	5.4	6.5	4.3	45.3	318.0	4.3
14	2.2	5.4	6.5	7.6	10.8	9.7	7.6	6.5	8.7	12.0	9.9	8.8	13.3	15.6	17.8	34.5	44.4	12.1	31.9	18.6	11.0	8.8	7.7	7.7	13.3	44.4	2.2
15	10.9	12.0	10.9	13.1	10.9	19.6	18.6	25.1	24.1	30.8	21.0	20.1	34.6	49.2	115.0	115.0	77.7	76.5	58.7	43.8	122.0	77.5	39.2	28.3	43.9	122.0	10.9
16	19.5	22.8	17.4	19.5	18.4	19.5	19.4	19.4	21.5	11.9	22.7	23.8	19.6	16.4	18.6	21.9	16.4	17.4	21.7	16.2	22.6	18.3	17.2	18.3	19.2	23.8	11.9
17	19.3	18.2	17.1	18.2	17.1	13.8	16.0	18.1	18.2	10.8	10.8	8.7	8.7	9.8	7.7	6.6	8.8	10.9	11.9	11.9	9.8	8.7	8.7	5.4	12.3	19.3	5.4
18	2.2	6.5	7.5	5.4	4.3	5.4	7.5	23.7	18.4	16.3	20.8	6.6	9.9	17.7	25.4	12.1	11.0	12.1	13.1	13.0	13.0	8.7	4.3	6.5	11.3	25.4	2.2
19	7.5	4.3	6.5	7.5	7.5	7.5	8.6	8.6	8.7	10.9	14.3	10.0	10.0	50.8	29.8	13.3	12.1	12.1	18.6	14.2	18.5	17.4	18.4	23.7	14.2	50.8	4.3
20	21.6	21.6	19.4	15.1	16.1	16.1	20.5	30.2	40.0	28.2	22.9	18.6	20.9	20.8	30.6	27.3	27.3	26.2	22.9	15.2	21.7	23.9	21.7	18.5	22.8	40.0	15.1
21	18.4	18.4	11.9	11.9	10.8	13.0	15.1	17.3	19.5	16.3	14.2	17.5	8.8	12.1	19.7	16.4	15.3	13.1	10.9	21.7	16.2	15.1	10.8	6.5	14.6	21.7	6.5
22	5.4	1.1	0.0	3.3	3.3	4.4	4.3	4.3	6.4	3.2	-1.1	-1.1	2.1	2.1	1.1	3.2	2.1	0.0	1.1	0.0	0.0	0.0	1.1	1.1	2.0	6.4	-1.1
23	-2.1	-2.1	1.1	4.2	3.2	2.1	3.2	5.2	3.1	1.1	1.1	-3.1	-3.1	0.0	1.1	1.1	1.1	-1.1	-1.1	0.0	-1.1	-1.1	0.0	-1.0	0.5	5.2	-3.1
24	-3.1	-4.2	-4.2	-4.2	-2.1	0.0	3.1	0.0	-2.1	1.0	3.1	0.0	-3.1	-3.1	2.1	2.1	1.1	2.1	1.0	1.0	0.0	-1.0	0.0	2.1	-0.3	3.1	-4.2
25	0.0	-2.1	-1.0	0.0	0.0	1.0	3.1	2.1	2.1	4.2	4.2	2.1	1.1	1.1	1.1	3.2	3.2	6.3	4.2	3.2	5.3	6.3	5.3	4.2	2.5	6.3	-2.1
26	3.2	3.2	6.3	5.3	0.0	1.1	5.3	4.2	2.1	--	--	1.1	2.1	2.2	1.1	0.0	1.1	4.3	1.1	1.1	1.1	1.1	3.2	3.2	2.4	6.3	0.0
27	5.3	39.3	10.6	9.6	4.2	3.2	9.5	43.4	30.8	17.0	10.7	8.5	11.8	16.1	10.7	7.5	4.3	3.2	4.3	3.2	2.1	3.2	1.1	2.1	10.9	43.4	1.1
28	2.1	-1.1	-2.1	0.0	1.1	3.2	4.2	1.1	3.2	6.4	8.6	7.5	2.2	3.3	2.2	1.1	3.3	3.2	3.2	4.3	5.4	5.4	3.2	2.2	3.0	8.6	-2.1
29	3.2	3.2	4.3	6.4	4.3	3.2	3.2	5.3	7.5	6.4	3.2	6.5	7.6	6.6	6.6	10.9	17.4	35.7	18.3	10.8	9.7	8.6	9.6	10.6	8.7	35.7	3.2
30	7.5	5.3	4.3	2.1	4.3	9.5	13.8	10.6	6.4	7.5	7.6	6.5	7.6	6.5	3.3	7.6	26.0	39.8	33.2	31.0	26.7	21.3	14.9	13.8	13.2	39.8	2.1
Avg	17.5	19.7	10.8	10.8	9.5	12.4	13.9	17.6	16.5	13.9	12.0	9.8	8.8	13.5	16.8	16.2	14.3	14.9	15.2	19.5	20.3	19.4	20.3	22.7	15.3	--	--
Max	169.0	318.0	128.0	99.4	76.7	79.7	86.3	53.8	57.2	54.0	33.2	28.9	34.6	52.3	115.0	115.0	77.7	76.5	58.7	182.0	182.0	240.0	294.0	358.0	--	358.0	--
Min	-3.1	-4.2	-4.2	-4.2	-2.1	0.0	2.2	0.0	-2.1	1.0	-1.1	-3.1	-3.1	-3.1	1.1	0.0	1.1	-1.1	-1.1	0.0	-1.1	-1.1	0.0	-1.0	--	--	-4.2

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

"Component, Channel: Table126, conc_PM10_µg/m^3 STP"

Month: Dec 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	12.7	11.7	8.5	5.3	4.3	5.3	7.4	5.3	3.2	5.4	4.3	5.4	6.5	-1.1	3.3	14.1	13.0	12.9	23.6	10.7	5.3	31.8	4.3	2.1	8.6	31.8	-1.1
2	1.1	2.1	3.2	3.2	1.1	4.2	6.3	6.3	--	6.4	16.2	4.3	5.4	8.7	9.8	7.6	7.6	10.8	23.7	11.8	10.7	7.5	16.0	0.0	7.6	23.7	0.0
3	1.1	3.2	3.2	0.0	-2.1	2.1	6.4	5.3	5.4	9.7	7.6	6.6	5.5	4.4	5.5	7.7	6.6	9.8	13.1	9.8	8.7	8.7	6.5	2.2	5.7	13.1	-2.1
4	2.2	3.3	2.2	1.1	1.1	3.2	2.1	6.4	8.6	6.5	28.0	5.4	5.4	16.1	9.6	7.4	6.4	10.6	12.7	16.9	12.7	16.9	16.8	10.5	8.8	28.0	1.1
5	11.6	8.4	7.4	10.5	11.5	10.5	9.4	15.7	6.3	4.2	6.3	11.6	10.5	8.4	9.5	13.7	15.8	14.7	16.7	17.7	17.6	10.3	8.2	10.3	11.1	17.7	4.2
6	14.4	12.3	10.3	11.3	8.2	7.2	7.2	6.2	7.2	10.4	6.2	6.3	8.4	8.4	5.3	7.4	10.5	7.3	8.3	10.3	10.3	10.3	9.3	9.3	8.8	14.4	5.3
7	8.2	8.2	7.2	4.1	3.1	3.1	3.1	5.1	6.2	9.4	9.4	8.4	6.3	4.3	4.2	5.3	6.3	8.4	15.7	13.6	13.6	9.5	7.4	7.3	7.4	15.7	3.1
8	6.3	8.4	7.3	1.0	-2.1	3.1	5.2	4.2	2.1	7.3	12.6	12.6	14.7	14.7	11.6	11.6	20.0	18.9	22.0	15.7	10.5	23.0	23.9	19.8	11.4	23.9	-2.1
9	19.7	13.4	19.5	24.7	18.5	14.3	24.5	20.4	15.3	12.4	13.5	12.5	8.4	4.2	4.2	7.3	5.2	2.1	3.1	2.1	0.0	-1.0	1.0	1.0	10.3	24.7	-1.0
10	7.2	7.2	2.1	5.2	5.2	4.1	4.1	8.3	9.4	18.8	4.2	4.2	5.3	7.4	5.3	4.2	3.2	3.2	6.4	7.4	6.4	6.4	9.5	7.4	6.3	18.8	2.1
11	4.2	3.2	3.2	4.2	5.3	5.3	5.3	6.4	5.3	7.4	11.7	13.9	12.9	11.9	11.9	7.6	5.4	6.5	6.5	7.5	10.7	10.7	7.5	9.7	7.7	13.9	3.2
12	9.6	10.7	12.8	10.7	13.9	12.8	12.8	11.8	10.7	12.8	12.9	11.9	8.7	7.6	7.6	6.5	8.6	7.5	7.5	10.6	27.6	35.0	32.7	25.3	13.7	35.0	6.5
13	24.2	19.9	19.9	18.8	16.7	18.8	17.7	15.6	19.9	12.6	18.0	19.1	8.5	9.6	18.2	15.0	12.8	12.7	18.0	1.1	2.1	16.8	12.5	10.4	14.9	24.2	1.1
14	10.4	9.4	9.4	11.5	11.4	9.4	4.2	3.1	7.4	5.3	18.0	8.5	5.3	0.0	2.2	4.3	1.1	0.0	3.2	4.2	3.2	3.2	1.1	2.1	5.7	18.0	0.0
15	5.3	5.3	3.2	2.1	16.8	1.1	1.0	3.1	5.2	4.3	1.1	2.1	2.2	0.0	3.3	5.4	6.5	9.6	9.6	6.4	5.4	7.5	4.3	5.4	4.8	16.8	0.0
16	6.4	3.2	24.5	0.0	2.1	2.1	7.4	12.7	7.5	7.5	20.6	5.4	6.6	8.8	16.5	3.3	2.2	3.3	9.7	8.7	2.2	2.2	2.2	-1.1	6.8	24.5	-1.1
17	1.1	3.2	4.3	2.2	1.1	-1.1	1.1	3.2	2.2	1.1	5.5	5.5	4.4	7.7	8.8	5.5	2.2	4.4	3.3	0.0	1.1	4.4	4.4	1.1	3.2	8.8	-1.1
18	4.4	5.5	2.2	1.1	0.0	1.1	2.2	6.5	4.3	-1.1	2.2	7.7	6.6	5.5	16.6	6.7	5.5	3.3	6.6	6.6	3.3	4.4	4.3	2.2	4.5	16.6	-1.1
19	3.3	4.3	6.5	9.7	8.6	9.7	9.7	9.7	8.6	6.5	7.6	5.5	7.7	19.8	--	15.4	46.0	21.8	27.0	32.4	59.2	56.9	31.1	24.7	18.8	59.2	3.3
20	24.7	11.8	19.3	18.3	14.0	12.8	10.6	5.3	1.1	1.1	2.1	4.3	3.2	2.1	-1.1	-1.1	3.2	3.2	3.2	3.2	2.1	5.3	3.2	3.2	6.5	24.7	-1.1
21	4.2	1.1	2.1	3.2	3.2	2.1	4.2	8.4	11.5	10.5	6.3	5.3	4.2	5.3	6.3	7.4	8.4	6.3	6.3	5.2	3.1	5.2	4.2	4.2	5.3	11.5	1.1
22	4.2	3.1	5.2	7.2	6.2	4.1	3.1	6.2	6.2	16.7	7.3	5.3	2.1	5.3	6.4	6.3	7.4	9.5	9.4	7.3	7.3	6.2	7.3	5.2	6.4	16.7	2.1
23	5.2	4.2	1.0	0.0	2.1	4.2	4.2	2.1	-1.0	0.0	1.1	1.1	2.1	0.0	-1.1	0.0	0.0	1.1	0.0	3.2	4.3	2.1	2.1	4.2	1.8	5.2	-1.1
24	4.3	3.2	4.3	5.3	4.2	1.1	1.1	0.0	4.2	2.1	-2.1	2.1	4.3	6.5	5.4	2.2	1.1	3.2	6.4	5.3	3.2	4.2	19.3	54.6	6.1	54.6	-2.1
25	18.2	16.1	12.8	36.3	4.3	4.2	37.2	6.3	4.2	2.1	0.0	-2.1	1.1	5.4	3.2	1.1	2.2	4.3	6.4	3.2	1.1	3.2	8.5	15.9	8.1	37.2	-2.1
26	18.0	30.7	43.3	42.2	34.9	31.7	20.1	21.2	15.9	21.2	15.9	14.9	13.9	14.0	9.7	7.6	9.7	9.6	11.7	11.7	17.0	11.6	8.5	6.4	18.4	43.3	6.4
27	4.2	3.2	2.1	4.2	9.6	10.7	7.4	9.5	14.9	13.9	--	10.7	9.7	11.9	9.7	7.6	4.3	3.2	5.4	7.5	7.5	9.6	9.5	7.4	8.0	14.9	2.1
28	6.3	5.3	4.2	5.3	9.5	11.6	12.7	13.7	9.5	8.5	8.6	6.4	7.6	8.7	6.5	8.7	7.6	9.7	22.5	18.2	10.6	11.7	10.6	7.4	9.6	22.5	4.2
29	7.5	8.5	6.4	6.4	6.3	5.3	8.5	11.6	7.4	6.4	6.4	4.3	6.5	7.6	6.5	3.3	1.1	2.2	4.3	5.3	6.4	5.3	1.1	1.1	5.6	11.6	1.1
30	2.1	1.1	1.1	2.1	4.2	6.3	7.3	28.1	34.4	7.4	7.4	5.3	4.3	5.4	8.6	9.7	9.6	12.8	19.0	10.5	11.6	10.5	5.3	4.2	9.1	34.4	1.1
31	3.2	2.1	4.2	4.2	4.2	3.2	5.3	8.5	11.6	10.7	10.7	10.7	9.7	8.7	8.7	6.5	7.6	8.6	7.5	6.4	6.4	6.4	5.3	5.3	6.9	11.6	2.1
Avg	8.2	7.5	8.5	8.4	7.3	6.9	8.3	8.9	8.5	8.0	9.0	7.3	6.7	7.3	7.4	6.9	8.0	7.8	10.9	9.1	9.4	11.1	9.3	8.7	8.3	--	--
Max	24.7	30.7	43.3	42.2	34.9	31.7	37.2	28.1	34.4	21.2	28.0	19.1	14.7	19.8	18.2	15.4	46.0	21.8	27.0	32.4	59.2	56.9	32.7	54.6	--	59.2	--
Min	1.1	1.1	1.0	0.0	-2.1	-1.1	1.0	0.0	-1.0	-1.1	-2.1	-2.1	1.1	-1.1	-1.1	-1.1	0.0	0.0	0.0	0.0	0.0	-1.0	1.0	-1.1	--	--	-2.1

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table126, conc_PM25_µg/m^3 Actual"
Month: Oct 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	2.0	0.0	1.0	3.0	2.0	0.0	3.0	3.0	1.0	0.0	0.0	1.0	1.0	3.0	2.0	1.0	2.0	2.0	3.0	3.0	1.0	2.0	1.0	1.6	3.0	0.0
2	-1.0	-1.0	-1.0	1.0	3.0	0.0	2.0	4.0	2.0	0.0	0.0	2.0	-1.0	-3.0	-1.0	0.0	-3.0	-3.0	0.0	3.0	3.0	0.0	1.0	2.0	0.4	4.0	-3.0
3	1.0	2.0	1.0	-2.0	0.0	3.0	4.0	2.0	-1.0	-2.0	-3.0	-3.0	-1.0	0.0	-3.0	-1.0	-1.0	-2.0	-1.0	-2.0	0.0	1.0	0.0	3.0	-0.2	4.0	-3.0
4	4.0	2.0	2.0	2.0	0.0	2.0	3.0	5.0	4.0	-2.0	-1.0	0.0	2.0	4.0	3.0	4.0	3.0	2.0	4.0	6.0	4.0	4.0	4.0	5.0	2.8	6.0	-2.0
5	4.0	3.0	3.0	1.0	2.0	3.0	3.0	1.0	1.0	3.0	3.0	3.0	2.0	-4.0	-2.0	1.0	-2.0	-4.0	-1.0	1.0	0.0	1.0	0.0	0.0	0.9	4.0	-4.0
6	0.0	1.0	0.0	1.0	1.0	2.0	3.0	2.0	3.0	0.0	-1.0	1.0	2.0	2.0	0.0	0.0	-1.0	-1.0	1.0	-1.0	0.0	0.0	0.0	1.0	0.7	3.0	-1.0
7	2.0	3.0	2.0	2.0	2.0	2.0	-1.0	1.0	1.0	-1.0	1.0	-1.0	-2.0	-2.0	-2.0	0.0	1.0	3.0	2.0	1.0	2.0	2.0	2.0	1.0	0.9	3.0	-2.0
8	-1.0	2.0	3.0	2.0	-1.0	-2.0	2.0	5.0	2.0	--	0.0	-3.0	-6.0	-3.0	-1.0	2.0	6.0	6.0	6.0	4.0	3.0	3.0	4.0	2.0	1.5	6.0	-6.0
9	3.0	6.0	3.0	-1.0	0.0	1.0	3.0	4.0	1.0	0.0	2.0	2.0	2.0	5.0	8.0	9.0	29.0	26.0	15.0	11.0	8.0	9.0	7.0	6.0	6.6	29.0	-1.0
10	9.0	6.0	5.0	6.0	11.0	11.0	6.0	8.0	10.0	9.0	6.0	5.0	3.0	2.0	3.0	2.0	-1.0	1.0	5.0	4.0	3.0	3.0	5.0	5.0	5.3	11.0	-1.0
11	3.0	4.0	4.0	4.0	3.0	4.0	5.0	4.0	--	1.0	0.0	1.0	2.0	2.0	--	0.0	3.0	4.0	4.0	4.0	3.0	1.0	2.0	5.0	2.9	5.0	0.0
12	6.0	6.0	6.0	3.0	2.0	3.0	1.0	1.0	-1.0	-1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	3.0	3.0	1.0	2.0	4.0	6.0	2.1	6.0	-1.0
13	5.0	3.0	2.0	2.0	4.0	2.0	1.0	5.0	1.0	-1.0	2.0	--	3.0	2.0	-1.0	1.0	2.0	2.0	2.0	4.0	2.0	0.0	2.0	3.0	2.1	5.0	-1.0
14	1.0	2.0	6.0	4.0	1.0	2.0	5.0	4.0	3.0	2.0	0.0	1.0	3.0	2.0	1.0	3.0	3.0	2.0	1.0	4.0	7.0	7.0	6.0	5.0	3.1	7.0	0.0
15	4.0	4.0	4.0	3.0	2.0	3.0	4.0	5.0	5.0	5.0	7.0	6.0	3.0	3.0	4.0	3.0	3.0	4.0	4.0	6.0	6.0	7.0	7.0	5.0	4.5	7.0	2.0
16	4.0	3.0	3.0	2.0	2.0	3.0	4.0	6.0	3.0	2.0	1.0	0.0	1.0	2.0	1.0	0.0	2.0	2.0	4.0	4.0	2.0	4.0	6.0	7.0	2.8	7.0	0.0
17	5.0	3.0	6.0	5.0	1.0	3.0	5.0	1.0	-1.0	-1.0	0.0	2.0	4.0	4.0	6.0	4.0	3.0	7.0	4.0	2.0	3.0	2.0	3.0	6.0	3.2	7.0	-1.0
18	6.0	4.0	4.0	4.0	4.0	6.0	6.0	--	3.0	1.0	-1.0	-1.0	0.0	3.0	3.0	2.0	3.0	4.0	5.0	5.0	4.0	5.0	3.0	0.0	3.2	6.0	-1.0
19	0.0	1.0	1.0	-1.0	0.0	2.0	2.0	1.0	-1.0	1.0	4.0	3.0	2.0	0.0	1.0	2.0	4.0	4.0	4.0	7.0	5.0	4.0	4.0	4.0	2.3	7.0	-1.0
20	6.0	7.0	4.0	2.0	3.0	3.0	3.0	3.0	1.0	1.0	2.0	4.0	6.0	5.0	3.0	3.0	2.0	0.0	0.0	5.0	6.0	3.0	2.0	1.0	3.1	7.0	0.0
21	1.0	2.0	5.0	2.0	1.0	3.0	6.0	5.0	3.0	1.0	2.0	2.0	1.0	3.0	2.0	2.0	2.0	2.0	3.0	3.0	5.0	6.0	6.0	6.0	3.1	6.0	1.0
22	5.0	3.0	1.0	2.0	1.0	1.0	-1.0	2.0	4.0	1.0	3.0	4.0	2.0	2.0	2.0	1.0	1.0	0.0	2.0	1.0	2.0	4.0	2.0	1.0	1.9	5.0	-1.0
23	1.0	1.0	1.0	2.0	3.0	3.0	5.0	6.0	5.0	4.0	4.0	3.0	1.0	4.0	3.0	2.0	1.0	-1.0	1.0	0.0	1.0	4.0	5.0	4.0	2.6	6.0	-1.0
24	1.0	1.0	4.0	3.0	2.0	3.0	4.0	4.0	4.0	3.0	1.0	0.0	-1.0	-2.0	-1.0	2.0	4.0	5.0	6.0	5.0	5.0	5.0	4.0	5.0	2.8	6.0	-2.0
25	6.0	3.0	4.0	6.0	5.0	1.0	2.0	5.0	5.0	--	5.0	0.0	0.0	2.0	1.0	0.0	-1.0	-1.0	1.0	1.0	1.0	3.0	5.0	5.0	2.6	6.0	-1.0
26	3.0	3.0	3.0	3.0	2.0	2.0	2.0	1.0	1.0	1.0	-2.0	-2.0	-1.0	-1.0	-1.0	-3.0	-2.0	1.0	4.0	5.0	4.0	2.0	0.0	-3.0	0.9	5.0	-3.0
27	-3.0	1.0	1.0	0.0	0.0	0.0	1.0	2.0	5.0	3.0	-1.0	-2.0	-2.0	-1.0	-1.0	-2.0	-1.0	1.0	1.0	1.0	2.0	3.0	2.0	3.0	0.5	5.0	-3.0
28	2.0	0.0	1.0	1.0	2.0	3.0	2.0	2.0	2.0	1.0	1.0	0.0	-1.0	0.0	1.0	2.0	1.0	3.0	5.0	6.0	--	--	--	--	1.7	6.0	-1.0
29	--	--	--	--	--	--	--	--	--	--	4.0	-2.0	-2.0	-4.0	-4.0	2.0	3.0	6.0	7.0	2.0	3.0	2.0	1.0	1.0	--	7.0	-4.0
30	1.0	3.0	2.0	2.0	2.0	1.0	1.0	2.0	2.0	5.0	3.0	0.0	3.0	--	2.0	-1.0	1.0	3.0	4.0	3.0	2.0	4.0	4.0	1.0	2.2	5.0	-1.0
31	1.0	2.0	3.0	2.0	2.0	3.0	1.0	1.0	4.0	2.0	0.0	1.0	-1.0	-2.0	-1.0	0.0	0.0	-1.0	3.0	5.0	4.0	5.0	5.0	3.0	1.8	5.0	-2.0
Avg	2.7	2.7	2.8	2.1	2.1	2.5	2.8	3.3	2.6	1.4	1.4	0.9	0.8	0.9	1.0	1.4	2.2	2.5	3.3	3.4	3.1	3.2	3.3	3.1	2.3	--	--
Max	9.0	7.0	6.0	6.0	11.0	11.0	6.0	8.0	10.0	9.0	7.0	6.0	6.0	5.0	8.0	9.0	29.0	26.0	15.0	11.0	8.0	9.0	7.0	7.0	--	29.0	--
Min	-3.0	-1.0	-1.0	-2.0	-1.0	-2.0	-1.0	1.0	-1.0	-2.0	-3.0	-3.0	-6.0	-4.0	-4.0	-3.0	-3.0	-4.0	-1.0	-2.0	0.0	0.0	0.0	-3.0	--	--	-6.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table126, conc_PM25_µg/m^3 Actual"
Month: Nov 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	3.0	4.0	2.0	3.0	5.0	2.0	2.0	4.0	4.0	4.0	3.0	2.0	0.0	-2.0	-1.0	1.0	2.0	3.0	3.0	3.0	2.0	0.0	1.0	2.0	2.2	5.0	-2.0
2	1.0	-1.0	0.0	4.0	4.0	3.0	3.0	2.0	1.0	-1.0	0.0	-1.0	0.0	1.0	-3.0	-2.0	1.0	1.0	4.0	4.0	3.0	1.0	4.0	4.0	1.4	4.0	-3.0
3	2.0	3.0	3.0	1.0	1.0	0.0	1.0	3.0	2.0	-1.0	-3.0	-4.0	-3.0	-2.0	-3.0	-1.0	-3.0	-1.0	1.0	-1.0	0.0	0.0	1.0	-2.0	-0.3	3.0	-4.0
4	-4.0	-2.0	1.0	0.0	-1.0	1.0	-1.0	1.0	2.0	0.0	-1.0	-2.0	-3.0	-3.0	-1.0	-1.0	-1.0	0.0	-1.0	0.0	0.0	2.0	8.0	6.0	0.0	8.0	-4.0
5	3.0	4.0	2.0	1.0	2.0	1.0	3.0	5.0	6.0	4.0	3.0	1.0	2.0	4.0	3.0	3.0	4.0	5.0	3.0	0.0	3.0	3.0	0.0	2.0	2.8	6.0	0.0
6	2.0	1.0	0.0	-2.0	-3.0	0.0	3.0	4.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0	-1.0	-1.0	1.0	2.0	1.0	0.0	1.0	1.0	0.0	0.8	5.0	-3.0
7	0.0	2.0	3.0	3.0	1.0	0.0	0.0	3.0	5.0	0.0	-1.0	0.0	-1.0	-1.0	-1.0	0.0	2.0	1.0	-1.0	-1.0	-2.0	-1.0	0.0	-2.0	0.4	5.0	-2.0
8	-2.0	-1.0	0.0	-2.0	-4.0	0.0	3.0	2.0	-1.0	0.0	3.0	1.0	-2.0	-1.0	1.0	1.0	1.0	3.0	5.0	6.0	6.0	7.0	9.0	13.0	2.0	13.0	-4.0
9	9.0	4.0	2.0	2.0	2.0	1.0	2.0	--	--	--	--	--	-6.0	-4.0	-4.0	-6.0	-4.0	0.0	-1.0	0.0	3.0	2.0	2.0	3.0	0.4	9.0	-6.0
10	2.0	3.0	2.0	2.0	6.0	5.0	1.0	1.0	2.0	3.0	1.0	-1.0	-1.0	-1.0	-1.0	-2.0	-1.0	1.0	1.0	0.0	0.0	1.0	2.0	0.0	1.1	6.0	-2.0
11	-2.0	-2.0	1.0	1.0	-1.0	2.0	0.0	-1.0	4.0	3.0	-1.0	-1.0	0.0	0.0	-3.0	-3.0	-1.0	1.0	4.0	5.0	3.0	3.0	1.0	1.0	0.6	5.0	-3.0
12	2.0	0.0	-1.0	0.0	1.0	1.0	1.0	1.0	-1.0	-3.0	-2.0	1.0	-1.0	-4.0	0.0	5.0	5.0	6.0	2.0	-1.0	1.0	1.0	2.0	4.0	0.8	6.0	-4.0
13	4.0	6.0	6.0	4.0	0.0	1.0	4.0	5.0	6.0	3.0	0.0	-3.0	-3.0	-1.0	1.0	0.0	-2.0	0.0	2.0	2.0	1.0	1.0	1.0	2.0	1.7	6.0	-3.0
14	1.0	0.0	2.0	4.0	3.0	3.0	3.0	2.0	3.0	2.0	1.0	1.0	2.0	1.0	3.0	2.0	4.0	5.0	1.0	-1.0	1.0	1.0	0.0	1.0	1.9	5.0	-1.0
15	1.0	1.0	0.0	-1.0	0.0	-1.0	-1.0	3.0	2.0	1.0	3.0	1.0	1.0	1.0	6.0	8.0	6.0	6.0	5.0	6.0	16.0	6.0	5.0	4.0	3.3	16.0	-1.0
16	3.0	2.0	5.0	5.0	5.0	4.0	6.0	8.0	3.0	1.0	3.0	3.0	4.0	4.0	3.0	2.0	2.0	4.0	6.0	4.0	4.0	4.0	4.0	4.0	3.9	8.0	1.0
17	-15.0	4.0	0.0	1.0	4.0	5.0	5.0	5.0	5.0	1.0	1.0	3.0	2.0	2.0	2.0	2.0	2.0	1.0	3.0	3.0	2.0	0.0	0.0	3.0	1.7	5.0	-15.0
18	2.0	1.0	2.0	3.0	4.0	7.0	7.0	5.0	3.0	2.0	1.0	2.0	1.0	-2.0	-1.0	-2.0	-3.0	0.0	2.0	2.0	1.0	1.0	3.0	4.0	1.9	7.0	-3.0
19	3.0	3.0	4.0	4.0	3.0	1.0	0.0	2.0	3.0	1.0	3.0	1.0	0.0	6.0	6.0	--	5.0	2.0	3.0	3.0	4.0	4.0	4.0	2.0	2.9	6.0	0.0
20	0.0	3.0	4.0	4.0	4.0	4.0	6.0	5.0	4.0	5.0	3.0	4.0	5.0	3.0	4.0	5.0	7.0	8.0	5.0	4.0	2.0	2.0	4.0	6.0	4.2	8.0	0.0
21	5.0	4.0	2.0	2.0	4.0	5.0	3.0	3.0	3.0	1.0	0.0	--	1.0	3.0	2.0	-1.0	-2.0	1.0	3.0	5.0	7.0	6.0	5.0	4.0	2.9	7.0	-2.0
22	3.0	2.0	0.0	0.0	2.0	3.0	4.0	3.0	2.0	2.0	1.0	-1.0	-1.0	1.0	-1.0	-2.0	1.0	-1.0	-1.0	2.0	3.0	2.0	0.0	-1.0	1.0	4.0	-2.0
23	1.0	2.0	1.0	4.0	5.0	3.0	0.0	1.0	3.0	3.0	1.0	0.0	3.0	4.0	2.0	-2.0	-4.0	0.0	2.0	-1.0	2.0	1.0	0.0	1.0	1.3	5.0	-4.0
24	2.0	2.0	2.0	2.0	0.0	0.0	1.0	3.0	3.0	-1.0	-2.0	0.0	2.0	0.0	-2.0	0.0	-1.0	-2.0	0.0	4.0	3.0	1.0	2.0	0.0	0.8	4.0	-2.0
25	1.0	1.0	1.0	2.0	2.0	4.0	5.0	4.0	3.0	1.0	2.0	2.0	2.0	1.0	-1.0	0.0	0.0	0.0	4.0	5.0	3.0	2.0	4.0	4.0	2.2	5.0	-1.0
26	4.0	3.0	3.0	4.0	3.0	2.0	6.0	3.0	2.0	--	--	3.0	0.0	-1.0	0.0	-2.0	0.0	2.0	2.0	3.0	2.0	2.0	1.0	-2.0	1.8	6.0	-2.0
27	-3.0	-2.0	2.0	3.0	1.0	1.0	0.0	-2.0	-1.0	0.0	0.0	1.0	0.0	-2.0	-2.0	0.0	-1.0	3.0	4.0	0.0	-1.0	1.0	4.0	2.0	0.3	4.0	-3.0
28	-2.0	-1.0	0.0	1.0	3.0	0.0	0.0	-1.0	-2.0	0.0	3.0	1.0	1.0	2.0	-1.0	0.0	0.0	-1.0	0.0	1.0	-1.0	0.0	-1.0	-3.0	0.0	3.0	-3.0
29	-2.0	-1.0	-2.0	0.0	1.0	2.0	1.0	2.0	0.0	-1.0	1.0	0.0	1.0	-1.0	0.0	2.0	-1.0	1.0	5.0	5.0	3.0	3.0	3.0	4.0	1.1	5.0	-2.0
30	6.0	4.0	2.0	3.0	3.0	2.0	3.0	1.0	1.0	3.0	1.0	-1.0	1.0	4.0	4.0	2.0	1.0	3.0	6.0	6.0	6.0	6.0	5.0	5.0	3.2	6.0	-1.0
Avg	1.0	1.6	1.6	1.9	2.0	2.1	2.4	2.7	2.5	1.3	0.9	0.5	0.2	0.4	0.4	0.3	0.6	1.8	2.5	2.3	2.6	2.1	2.5	2.4	1.6	--	--
Max	9.0	6.0	6.0	5.0	6.0	7.0	7.0	8.0	6.0	5.0	3.0	4.0	5.0	6.0	6.0	8.0	7.0	8.0	6.0	6.0	16.0	7.0	9.0	13.0	--	16.0	--
Min	-15.0	-2.0	-2.0	-2.0	-4.0	-1.0	-1.0	-2.0	-2.0	-3.0	-3.0	-4.0	-6.0	-4.0	-4.0	-6.0	-4.0	-2.0	-1.0	-1.0	-2.0	-1.0	-1.0	-3.0	--	--	-15.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table126, conc_PM25_µg/m^3 Actual"
Month: Dec 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	3.0	3.0	3.0	5.0	3.0	2.0	4.0	3.0	--	--	0.0	-4.0	-5.0	-1.0	2.0	5.0	5.0	3.0	4.0	3.0	3.0	3.0	3.0	2.0	2.2	5.0	-5.0
2	-1.0	0.0	0.0	-1.0	2.0	1.0	0.0	1.0	--	--	-3.0	-1.0	-1.0	-1.0	2.0	2.0	0.0	--	2.0	6.0	7.0	5.0	5.0	3.0	1.3	7.0	-3.0
3	1.0	3.0	1.0	-1.0	3.0	2.0	1.0	1.0	4.0	4.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	--	--	0.0	--	2.0	3.0	0.0	1.3	4.0	-1.0
4	-1.0	0.0	0.0	0.0	-1.0	-1.0	2.0	3.0	3.0	--	3.0	4.0	3.0	1.0	2.0	-1.0	-2.0	0.0	0.0	1.0	2.0	4.0	5.0	4.0	1.4	5.0	-2.0
5	4.0	3.0	2.0	0.0	0.0	3.0	5.0	4.0	2.0	3.0	2.0	3.0	2.0	0.0	2.0	2.0	4.0	7.0	6.0	6.0	5.0	4.0	4.0	6.0	3.3	7.0	0.0
6	5.0	4.0	7.0	6.0	5.0	5.0	6.0	4.0	2.0	4.0	4.0	4.0	2.0	1.0	--	--	1.0	3.0	5.0	5.0	5.0	6.0	4.0	4.0	4.2	7.0	1.0
7	5.0	3.0	4.0	5.0	4.0	2.0	3.0	5.0	6.0	3.0	1.0	1.0	4.0	3.0	2.0	0.0	-2.0	2.0	6.0	5.0	5.0	4.0	2.0	2.0	3.1	6.0	-2.0
8	3.0	4.0	3.0	1.0	0.0	2.0	1.0	1.0	2.0	2.0	1.0	1.0	1.0	0.0	1.0	2.0	2.0	3.0	4.0	4.0	2.0	4.0	6.0	4.0	2.3	6.0	0.0
9	3.0	4.0	5.0	10.0	11.0	9.0	8.0	8.0	6.0	4.0	4.0	6.0	3.0	-3.0	-2.0	-1.0	0.0	2.0	2.0	2.0	3.0	5.0	3.0	1.0	3.9	11.0	-3.0
10	0.0	2.0	3.0	2.0	2.0	2.0	1.0	1.0	-2.0	-2.0	-2.0	-2.0	0.0	1.0	1.0	2.0	1.0	2.0	2.0	2.0	2.0	2.0	4.0	6.0	1.3	6.0	-2.0
11	6.0	1.0	-2.0	0.0	2.0	3.0	4.0	3.0	3.0	3.0	3.0	1.0	0.0	1.0	-1.0	0.0	1.0	1.0	2.0	3.0	3.0	2.0	3.0	4.0	1.9	6.0	-2.0
12	5.0	4.0	4.0	3.0	3.0	2.0	0.0	-1.0	0.0	1.0	0.0	0.0	-1.0	1.0	3.0	2.0	2.0	2.0	2.0	4.0	6.0	5.0	4.0	5.0	2.3	6.0	-1.0
13	6.0	--	--	--	--	--	--	--	--	--	4.0	5.0	4.0	2.0	5.0	5.0	3.0	3.0	5.0	2.0	2.0	3.0	4.0	4.0	--	6.0	2.0
14	3.0	4.0	3.0	3.0	5.0	5.0	6.0	5.0	3.0	1.0	0.0	1.0	1.0	-1.0	0.0	0.0	1.0	2.0	1.0	1.0	1.0	2.0	1.0	1.0	2.0	6.0	-1.0
15	3.0	3.0	1.0	0.0	-1.0	-1.0	1.0	0.0	1.0	0.0	-2.0	1.0	3.0	-2.0	-3.0	-2.0	-3.0	2.0	3.0	0.0	1.0	0.0	-3.0	-2.0	0.0	3.0	-3.0
16	0.0	0.0	0.0	0.0	1.0	2.0	1.0	3.0	5.0	0.0	-2.0	-2.0	-3.0	0.0	1.0	-2.0	-2.0	0.0	2.0	2.0	-1.0	-3.0	-1.0	1.0	0.1	5.0	-3.0
17	0.0	0.0	2.0	1.0	0.0	-2.0	-2.0	-2.0	-1.0	-3.0	-3.0	-1.0	-1.0	3.0	0.0	-3.0	0.0	0.0	1.0	1.0	-4.0	-5.0	0.0	0.0	-0.8	3.0	-5.0
18	-1.0	-3.0	-2.0	0.0	0.0	-1.0	-1.0	-1.0	0.0	1.0	0.0	-1.0	-1.0	1.0	0.0	-1.0	0.0	0.0	-1.0	0.0	2.0	0.0	-2.0	0.0	-0.5	2.0	-3.0
19	-1.0	-3.0	2.0	4.0	5.0	2.0	3.0	4.0	-1.0	-2.0	-1.0	0.0	2.0	1.0	--	-1.0	0.0	2.0	2.0	4.0	9.0	16.0	8.0	7.0	2.7	16.0	-3.0
20	7.0	4.0	3.0	5.0	4.0	4.0	4.0	5.0	2.0	0.0	--	3.0	1.0	-1.0	2.0	1.0	0.0	-2.0	-1.0	0.0	2.0	2.0	1.0	-2.0	1.9	7.0	-2.0
21	0.0	4.0	3.0	3.0	3.0	4.0	6.0	5.0	3.0	4.0	1.0	1.0	5.0	6.0	5.0	4.0	3.0	2.0	4.0	4.0	0.0	1.0	4.0	5.0	3.3	6.0	0.0
22	6.0	5.0	4.0	4.0	6.0	6.0	3.0	2.0	1.0	1.0	2.0	2.0	1.0	2.0	3.0	4.0	4.0	5.0	5.0	5.0	6.0	4.0	5.0	4.0	3.8	6.0	1.0
23	1.0	2.0	4.0	2.0	2.0	1.0	-1.0	3.0	4.0	0.0	--	-2.0	-3.0	-4.0	--	--	-2.0	0.0	2.0	2.0	1.0	1.0	0.0	1.0	0.7	4.0	-4.0
24	1.0	1.0	0.0	-1.0	0.0	-2.0	-2.0	-3.0	-1.0	0.0	-1.0	2.0	2.0	-1.0	-1.0	0.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	3.0	0.1	3.0	-3.0
25	1.0	-2.0	-1.0	0.0	1.0	-1.0	0.0	1.0	1.0	2.0	0.0	0.0	1.0	-1.0	-3.0	-4.0	-2.0	1.0	0.0	-1.0	0.0	1.0	1.0	3.0	-0.1	3.0	-4.0
26	2.0	0.0	1.0	4.0	4.0	1.0	-2.0	1.0	5.0	2.0	-1.0	2.0	5.0	4.0	1.0	0.0	0.0	1.0	2.0	0.0	0.0	3.0	2.0	2.0	1.6	5.0	-2.0
27	1.0	-1.0	-1.0	1.0	0.0	0.0	3.0	2.0	2.0	-5.0	--	-9.0	-2.0	-1.0	-1.0	-2.0	-2.0	-2.0	-2.0	-2.0	1.0	5.0	4.0	-2.0	-0.6	5.0	-9.0
28	-1.0	2.0	3.0	2.0	1.0	3.0	3.0	4.0	5.0	6.0	4.0	1.0	1.0	0.0	-5.0	-6.0	0.0	5.0	6.0	4.0	2.0	6.0	8.0	3.0	2.4	8.0	-6.0
29	4.0	7.0	5.0	2.0	-15.0	-5.0	-1.0	2.0	4.0	4.0	-1.0	-3.0	1.0	1.0	-1.0	-2.0	-1.0	1.0	3.0	3.0	8.0	5.0	-1.0	2.0	0.9	8.0	-15.0
30	1.0	0.0	1.0	1.0	2.0	3.0	3.0	1.0	2.0	3.0	2.0	0.0	0.0	3.0	2.0	-1.0	0.0	0.0	1.0	2.0	1.0	2.0	1.0	1.0	1.3	3.0	-1.0
31	1.0	1.0	1.0	1.0	3.0	5.0	4.0	1.0	1.0	1.0	-2.0	0.0	0.0	-3.0	-1.0	-1.0	-2.0	0.0	2.0	5.0	4.0	1.0	2.0	21.0	1.9	21.0	-3.0
Avg	2.2	1.8	2.0	2.1	1.8	1.9	2.1	2.2	2.2	1.4	0.5	0.4	0.8	0.4	0.6	0.1	0.4	1.6	2.4	2.4	2.6	2.9	2.6	3.0	1.6	--	--
Max	7.0	7.0	7.0	10.0	11.0	9.0	8.0	8.0	6.0	6.0	4.0	6.0	5.0	6.0	5.0	5.0	5.0	7.0	6.0	6.0	9.0	16.0	8.0	21.0	--	21.0	--
Min	-1.0	-3.0	-2.0	-1.0	-15.0	-5.0	-2.0	-3.0	-2.0	-5.0	-3.0	-9.0	-5.0	-4.0	-5.0	-6.0	-3.0	-2.0	-2.0	-2.0	-4.0	-5.0	-3.0	-2.0	--	--	-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: Oct 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	--	-2.1	-2.3	-2.5	-2.5	-2.5	-1.0	-1.5	-2.7	-2.6	-2.5	-2.5	--	-1.3	-1.7	-1.6	-1.6	-1.5	-1.5	-1.2	-1.6	-1.7	-1.7	-1.9	-1.0	-2.7
2	-1.5	--	-0.7	-1.3	-0.8	-0.5	-0.4	0.6	0.2	-1.1	-0.6	-1.0	-0.6	-1.2	-1.5	-1.5	-1.1	-1.6	-1.5	-1.6	-1.2	-0.8	-1.3	-1.5	-1.0	0.6	-1.6
3	-1.0	--	-1.2	-0.9	-0.7	0.4	0.6	0.3	-0.9	-0.6	-1.0	-1.2	-1.3	-1.1	-1.1	-1.3	-1.6	-1.7	-1.4	-1.4	-0.9	-0.5	0.2	-0.9	-0.8	0.6	-1.7
4	-1.0	--	-1.7	-1.1	-0.8	-1.4	-1.2	1.2	0.7	-0.3	-0.8	-1.1	-1.1	-0.8	-1.1	-1.0	-0.6	1.6	1.3	0.2	0.5	0.7	-1.6	-1.8	-0.5	1.6	-1.8
5	-1.5	--	-1.8	-1.8	-1.8	-1.7	-1.7	-1.7	-1.6	-1.5	-1.3	-0.9	-1.1	-1.2	-0.8	-1.1	-1.4	-1.2	-1.4	-1.3	-0.5	-0.8	-1.3	-1.5	-1.3	-0.5	-1.8
6	-1.5	--	-1.7	-1.7	-1.5	15.5	-1.3	-1.0	-0.9	-0.6	-0.2	-0.8	-1.3	-1.3	-1.4	-1.5	-1.5	-1.1	-0.8	-0.6	-0.2	0.6	0.2	1.5	-0.1	15.5	-1.7
7	2.4	--	2.1	2.2	0.3	-0.1	0.9	0.3	0.0	0.7	-1.2	-0.9	-1.5	-1.3	-1.2	-0.9	-1.4	-1.5	-1.5	-1.1	-1.3	-1.5	-1.7	-1.7	-0.4	2.4	-1.7
8	-1.3	--	-1.5	-1.2	-1.0	-1.1	-1.3	1.1	-0.5	-1.1	-0.7	-0.9	-1.4	-1.4	-1.5	-1.7	-1.5	-1.9	-1.9	-1.9	-2.0	-1.9	-1.9	-1.9	-1.3	1.1	-2.0
9	-1.7	--	-2.0	-1.7	-1.6	-1.6	-1.2	-0.4	-0.9	--	--	--	--	--	--	--	--	-0.3	-0.2	-0.3	-0.2	-0.2	-0.3	-0.3	--	--	--
10	0.2	--	-0.2	-0.3	-0.3	-0.1	-0.2	0.6	1.5	1.7	1.3	0.8	0.8	1.0	1.0	0.9	0.8	0.7	1.7	2.0	2.2	1.7	2.1	1.0	0.9	2.2	-0.3
11	1.1	--	1.0	1.4	1.7	2.3	2.5	4.1	6.5	1.7	1.0	0.8	1.6	1.2	1.0	0.8	0.6	0.5	0.6	1.2	1.0	0.8	0.8	0.6	1.5	6.5	0.5
12	0.7	--	0.7	0.7	0.5	0.8	0.8	1.5	2.0	0.9	0.3	1.0	0.6	0.3	0.5	0.1	0.0	0.0	0.3	0.2	1.0	0.5	0.1	0.1	0.6	2.0	0.0
13	0.3	--	0.0	0.3	0.5	0.4	0.4	0.4	0.1	0.3	0.2	0.0	0.1	0.2	0.0	-0.2	-0.3	-0.3	-0.2	-0.1	-0.1	0.1	0.4	0.6	0.1	0.6	-0.3
14	0.7	--	1.1	1.1	0.8	1.7	2.1	3.1	2.4	1.1	0.5	0.7	0.2	0.0	-0.1	-0.1	-0.1	0.0	0.3	0.3	0.4	3.8	0.6	0.0	0.9	3.8	-0.1
15	0.6	--	0.3	0.5	1.1	1.1	1.4	2.6	1.5	0.5	0.6	0.6	0.5	0.2	0.2	0.2	0.6	0.6	0.9	1.7	2.5	1.8	1.1	1.0	1.0	2.6	0.2
16	1.0	--	1.1	1.0	1.3	0.7	0.8	1.4	0.8	0.7	1.0	0.6	1.0	0.3	0.1	0.1	0.2	0.5	0.9	1.8	2.3	2.3	2.0	1.2	1.0	2.3	0.1
17	0.7	--	0.7	0.6	0.4	1.2	0.9	2.1	1.6	0.6	1.1	1.5	1.0	0.8	0.5	0.4	0.5	0.9	1.3	1.6	1.9	2.3	2.2	2.2	1.2	2.3	0.4
18	2.1	--	1.0	0.6	0.6	0.6	0.5	2.2	--	--	2.0	0.2	0.1	0.2	0.3	0.4	0.8	1.9	2.3	2.9	2.6	1.9	1.8	1.7	1.3	2.9	0.1
19	1.2	--	-0.3	0.0	0.1	0.1	0.2	0.6	0.6	1.4	1.3	0.7	0.1	0.3	0.3	0.1	0.1	0.6	0.7	1.0	1.7	1.4	0.6	0.2	0.6	1.7	-0.3
20	0.0	--	-0.2	0.0	0.4	0.4	0.5	1.3	2.1	0.4	1.2	0.8	0.3	-0.1	0.0	-0.2	-0.2	0.0	0.2	0.5	0.5	0.6	0.5	0.7	0.4	2.1	-0.2
21	0.8	--	0.6	0.3	0.2	0.3	0.3	1.8	3.2	1.0	2.0	2.2	1.9	0.9	0.0	-0.2	-0.1	0.0	0.2	0.6	0.8	0.3	0.0	-0.1	0.7	3.2	-0.2
22	0.3	--	-0.2	0.1	0.3	1.4	3.5	3.3	2.2	2.2	1.6	1.3	1.0	0.4	0.6	-0.1	0.0	0.2	0.2	0.0	0.4	0.5	1.2	1.0	0.9	3.5	-0.2
23	1.3	--	1.3	1.5	1.3	1.4	2.1	2.0	3.3	2.4	1.5	1.3	0.4	0.2	0.3	0.3	0.1	-0.1	0.6	0.2	0.4	0.9	1.4	1.6	1.1	3.3	-0.1
24	8.0	--	1.5	1.9	2.1	2.2	2.0	1.8	1.9	1.0	1.1	1.7	0.9	0.0	0.1	0.2	0.5	1.0	1.1	1.1	0.8	0.4	0.2	0.3	1.4	8.0	0.0
25	0.4	--	-0.1	-0.3	-0.2	-0.4	-0.3	0.4	1.8	0.3	0.3	0.4	0.3	0.1	0.0	0.2	0.2	0.5	0.6	2.0	3.2	3.2	1.1	0.8	0.6	3.2	-0.4
26	1.1	--	0.2	0.1	0.0	0.1	0.8	0.6	0.6	1.2	1.4	0.8	0.3	0.1	0.0	-0.1	-0.1	0.5	0.2	1.3	0.9	2.8	1.9	1.5	0.7	2.8	-0.1
27	1.5	--	2.2	0.7	1.2	1.5	1.2	1.2	1.2	1.3	0.3	0.2	0.8	0.0	-0.1	-0.2	-0.1	-0.3	0.2	0.4	0.3	0.8	0.9	-0.4	0.6	2.2	-0.4
28	0.1	--	-0.4	-0.3	-0.2	0.2	-0.2	-0.1	-0.1	0.0	0.1	0.3	-0.1	-0.2	-0.4	-0.4	-0.3	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.6	-0.2	0.3	-0.6
29	-0.1	--	-0.5	-0.5	-0.4	-0.2	-0.3	0.4	-0.1	0.0	-0.1	-0.1	0.0	0.1	0.2	1.7	3.0	1.1	0.8	1.0	1.1	1.0	0.8	1.1	0.4	3.0	-0.5
30	1.3	--	0.5	0.1	0.6	0.3	0.3	0.8	0.6	1.1	1.0	0.6	0.4	0.4	--	1.4	2.5	3.7	3.1	2.6	2.1	2.1	2.0	1.6	1.3	3.7	0.1
31	1.5	--	0.7	0.3	0.8	1.7	2.0	3.0	2.8	2.2	2.1	1.9	1.0	0.7	0.4	0.5	1.4	1.8	3.1	4.0	3.5	3.1	1.7	1.3	1.8	4.0	0.3
Avg	0.5	--	0.0	0.0	0.1	0.8	0.4	1.1	1.0	0.5	0.5	0.3	0.1	0.0	-0.2	-0.2	0.0	0.1	0.3	0.5	0.7	0.8	0.4	0.3	0.4	--	--
Max	8.0	--	2.2	2.2	2.1	15.5	3.5	4.1	6.5	2.4	2.1	2.2	1.9	1.2	1.0	1.7	3.0	3.7	3.1	4.0	3.5	3.8	2.2	2.2	--	15.5	--
Min	-2.0	--	-2.1	-2.3	-2.5	-2.5	-2.5	-1.7	-1.6	-2.7	-2.6	-2.5	-2.5	-1.4	-1.5	-1.7	-1.6	-1.9	-1.9	-1.9	-2.0	-1.9	-1.9	-1.9	--	--	-2.7

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: Nov 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	--	0.5	0.4	0.8	1.0	2.5	3.8	3.0	1.9	1.2	0.9	0.8	1.1	0.5	0.7	1.0	2.0	2.9	2.4	3.7	2.7	1.1	0.3	1.6	3.8	0.3
2	0.7	--	0.2	0.6	2.1	1.8	2.3	1.8	0.9	0.7	0.1	-0.2	-0.2	-0.2	-0.2	-0.3	0.0	-0.3	0.6	1.1	0.3	-0.2	0.4	0.1	0.5	2.3	-0.3
3	0.7	--	0.3	2.6	2.1	3.4	1.6	1.1	1.1	0.6	1.7	0.7	0.2	0.1	0.1	0.1	-0.1	-0.3	-0.3	0.1	0.1	-0.1	0.5	-0.2	0.7	3.4	-0.3
4	-0.2	0.0	--	0.1	-0.1	0.1	0.0	0.6	0.9	0.5	0.5	0.2	0.1	0.2	0.2	0.1	-0.2	-0.2	0.2	0.8	0.7	1.0	3.9	4.1	0.6	4.1	-0.2
5	3.7	2.8	--	1.5	1.8	1.0	0.3	1.5	2.9	1.9	1.1	0.9	0.7	0.5	0.4	0.4	0.4	1.1	1.8	2.4	1.4	0.3	0.8	0.1	1.3	3.7	0.1
6	0.8	1.0	--	-0.3	0.4	-0.5	-0.4	0.4	-0.3	-0.2	0.1	1.6	0.7	0.1	-0.2	0.0	0.3	0.5	1.3	1.0	0.8	1.3	0.4	0.0	0.4	1.6	-0.5
7	0.4	1.0	--	1.7	1.9	2.2	2.0	2.4	2.8	2.2	0.4	-0.2	-0.2	-0.3	-0.3	-0.4	-0.4	-0.4	0.3	0.5	0.7	1.3	0.7	1.0	0.8	2.8	-0.4
8	1.0	1.3	--	1.1	1.1	1.4	1.4	1.5	1.5	2.4	1.7	2.1	1.0	0.4	0.1	0.0	0.1	0.2	0.2	0.3	0.2	0.0	-0.2	-0.2	0.8	2.4	-0.2
9	-0.1	0.2	--	-0.2	0.4	2.0	1.1	0.7	1.1	1.2	1.2	0.5	0.3	0.2	0.1	-0.1	-0.2	-0.2	-0.2	0.5	0.2	0.2	0.0	-0.1	0.4	2.0	-0.2
10	-0.1	0.3	--	0.0	-0.1	0.0	0.0	0.4	0.2	1.2	14.8	3.0	3.4	2.2	1.8	0.9	2.3	2.1	2.4	2.2	1.3	0.3	-0.1	-0.1	1.7	14.8	-0.1
11	0.1	0.1	--	0.4	0.2	1.0	1.2	1.0	0.8	1.4	3.0	3.3	1.9	1.1	0.2	0.0	0.4	1.9	1.6	1.0	0.6	0.5	0.5	0.9	1.0	3.3	0.0
12	0.5	0.6	--	0.7	0.6	0.6	0.6	1.1	1.3	2.3	2.7	1.1	0.2	0.1	0.3	0.4	0.3	0.3	0.4	1.0	1.1	1.1	1.0	0.8	0.8	2.7	0.1
13	0.7	0.9	--	0.6	0.8	1.1	1.0	1.2	1.5	1.3	1.2	1.0	1.0	1.0	0.8	0.8	0.7	0.9	0.9	0.9	1.3	1.0	1.1	1.2	1.0	1.5	0.6
14	1.3	2.0	--	2.2	2.2	2.0	2.2	2.6	2.8	3.4	3.2	2.3	2.1	2.2	1.7	1.1	0.9	0.9	0.9	1.7	1.5	1.0	0.8	0.5	1.8	3.4	0.5
15	0.4	0.8	--	0.9	0.8	1.7	2.2	1.4	0.7	0.6	0.8	1.0	0.6	0.5	--	-0.1	-0.1	-0.1	-0.2	-0.1	0.1	0.0	-0.2	-0.2	0.5	2.2	-0.2
16	-0.1	0.3	--	0.0	0.0	-0.1	-0.2	-0.1	0.0	0.1	0.2	0.4	0.5	0.4	0.3	0.1	0.0	-0.1	-0.2	-0.2	-0.2	-0.1	0.3	0.6	0.1	0.6	-0.2
17	0.1	0.3	--	0.1	0.8	0.3	-0.2	-0.2	0.3	0.1	0.5	0.8	0.3	0.3	0.2	0.0	-0.1	-0.1	1.0	0.9	0.0	0.4	-0.1	0.1	0.3	1.0	-0.2
18	0.2	0.3	--	0.8	0.6	1.2	1.0	0.9	0.7	1.7	2.2	3.0	2.5	0.3	0.5	0.5	0.4	0.6	1.2	2.1	1.1	0.5	0.8	0.7	1.0	3.0	0.2
19	0.4	--	0.1	0.1	0.1	0.7	1.3	2.6	3.3	2.3	1.4	1.1	0.4	1.8	0.7	0.4	0.4	0.8	1.1	0.9	0.8	1.2	0.9	0.9	1.0	3.3	0.1
20	0.9	--	1.8	2.0	2.9	2.7	3.7	5.3	4.8	3.0	2.6	2.5	1.7	0.6	0.7	1.2	0.8	0.8	0.6	0.4	0.4	0.4	0.6	0.6	1.8	5.3	0.4
21	0.4	--	0.3	0.2	0.5	2.3	2.6	3.8	2.4	1.8	0.7	0.8	0.6	0.5	0.4	0.3	0.3	0.5	0.4	0.3	0.9	2.9	1.4	0.7	1.1	3.8	0.2
22	0.2	--	0.5	0.9	1.3	0.4	0.5	0.7	0.9	2.7	2.0	1.0	1.0	1.4	1.5	0.5	1.1	1.3	0.9	1.9	2.2	1.1	1.4	1.1	1.2	2.7	0.2
23	1.3	--	0.6	0.4	1.0	0.8	0.9	0.7	0.6	0.6	0.7	0.5	0.8	0.7	0.7	0.7	0.7	0.6	1.0	1.0	1.1	1.1	1.1	1.2	0.8	1.3	0.4
24	0.8	--	0.6	0.5	0.4	0.4	0.5	0.4	0.6	0.8	1.0	1.1	0.9	1.0	1.3	1.5	1.8	1.6	1.2	0.8	1.5	1.6	1.6	1.7	1.0	1.8	0.4
25	1.5	--	3.0	1.6	1.0	1.0	2.5	3.4	1.9	1.5	2.1	1.7	1.6	1.4	1.2	0.6	0.9	1.5	1.9	1.9	1.7	1.9	1.7	2.5	1.7	3.4	0.6
26	2.6	--	0.9	1.2	1.3	1.4	3.5	3.2	3.3	2.6	2.1	1.5	1.3	1.1	0.8	1.0	0.1	0.4	0.9	0.5	0.4	0.3	0.5	0.5	1.4	3.5	0.1
27	0.4	--	0.8	0.9	0.8	1.0	0.9	1.0	1.7	1.3	0.9	0.7	0.8	--	0.8	0.6	0.6	0.7	1.3	0.8	1.2	0.9	1.2	1.3	0.9	1.7	0.4
28	0.9	--	1.4	1.4	1.2	1.4	1.4	1.6	2.2	1.9	1.9	1.6	1.6	1.0	0.8	0.8	0.9	2.3	2.4	0.9	0.8	1.3	0.8	0.6	1.3	2.4	0.6
29	0.9	--	0.8	1.1	1.3	1.3	1.4	1.3	1.5	1.8	2.6	2.9	0.9	1.4	0.8	0.5	0.8	2.4	2.3	2.0	1.5	1.3	1.4	1.5	1.5	2.9	0.5
30	1.5	--	0.9	0.9	0.9	0.9	0.9	1.3	1.6	1.5	1.8	2.9	3.5	3.6	2.7	2.3	3.9	5.3	2.9	1.7	1.4	1.0	0.8	0.9	2.0	5.3	0.8
Avg	0.8	0.8	0.9	0.8	1.0	1.1	1.3	1.6	1.6	1.5	1.9	1.4	1.0	0.9	0.6	0.5	0.6	0.9	1.1	1.1	1.0	0.9	0.9	0.8	1.0	--	--
Max	3.7	2.8	3.0	2.6	2.9	3.4	3.7	5.3	4.8	3.4	14.8	3.3	3.5	3.6	2.7	2.3	3.9	5.3	2.9	2.4	3.7	2.9	3.9	4.1	--	14.8	--
Min	-0.2	0.0	0.1	-0.3	-0.1	-0.5	-0.4	-0.2	-0.3	-0.2	0.1	-0.2	-0.2	-0.3	-0.3	-0.4	-0.4	-0.4	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	--	--	-0.5

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: Dec 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	0.9	--	1.3	1.1	0.8	0.7	0.7	0.8	0.9	0.8	1.9	2.3	3.9	2.6	1.2	1.2	1.2	1.3	0.7	0.6	0.5	0.4	0.3	0.2	1.1	3.9	0.2
2	0.1	--	0.3	1.1	0.6	0.3	0.4	0.5	1.1	1.9	1.4	1.1	0.9	0.9	1.0	1.2	0.9	1.1	0.9	1.9	1.0	0.7	0.8	1.7	1.0	1.9	0.1
3	1.6	--	0.2	0.9	1.2	0.6	0.8	0.4	1.6	2.1	1.1	0.9	0.8	0.3	0.3	0.6	0.5	0.5	-0.1	-0.2	-0.1	-0.1	-0.1	0.0	0.6	2.1	-0.2
4	0.0	--	-0.3	-0.3	0.0	0.3	-0.1	-0.1	-0.1	0.1	0.1	0.6	0.3	1.3	2.5	0.3	0.6	1.0	1.0	1.3	2.3	3.7	3.1	2.0	0.9	3.7	-0.3
5	1.4	--	0.8	0.6	0.6	1.1	1.6	1.7	2.6	2.7	1.6	1.1	1.2	1.0	1.0	1.8	2.1	2.9	4.9	3.6	2.9	2.7	2.9	4.3	2.0	4.9	0.6
6	4.9	--	0.9	0.8	0.9	3.4	3.3	3.2	3.2	1.8	1.6	1.2	1.3	1.1	1.1	1.1	0.7	0.7	1.3	2.1	1.5	1.2	1.5	1.0	1.7	4.9	0.7
7	0.7	--	0.4	0.5	0.3	0.2	0.1	0.3	1.0	1.3	1.3	1.6	1.1	0.5	0.6	0.6	0.8	0.9	0.9	1.0	0.6	0.4	0.4	0.3	0.7	1.6	0.1
8	0.2	--	0.0	0.1	0.0	0.0	-0.1	0.1	0.2	0.7	0.4	0.1	0.1	0.0	0.1	0.0	0.1	0.3	0.4	0.3	0.3	1.3	1.4	1.0	0.3	1.4	-0.1
9	1.3	--	5.8	5.1	4.3	3.4	2.7	2.8	4.7	3.1	2.8	1.4	1.4	0.9	0.5	1.0	0.9	0.7	0.3	0.3	-0.2	-0.3	-0.2	-0.4	1.8	5.8	-0.4
10	-0.1	--	-0.1	0.2	-0.1	0.0	-0.1	0.6	1.6	1.5	1.9	2.0	1.6	0.6	0.6	1.4	1.6	2.0	1.6	1.3	1.7	1.6	1.7	2.0	1.1	2.0	-0.1
11	1.3	--	1.0	1.2	0.7	0.8	1.0	1.0	1.4	1.9	1.9	1.8	1.1	1.3	1.4	1.6	2.1	1.5	1.3	0.7	0.9	0.8	0.9	0.8	1.2	2.1	0.7
12	0.8	--	1.3	1.8	1.8	1.9	1.8	1.7	2.1	1.9	1.9	1.4	1.4	1.2	1.3	--	1.3	2.0	1.9	2.5	3.4	3.3	4.2	5.7	2.1	5.7	0.8
13	5.4	--	5.0	5.4	4.4	6.1	4.4	4.3	6.7	6.7	5.4	4.8	3.3	2.6	2.4	2.2	2.0	2.0	2.0	2.1	1.5	2.7	2.8	2.2	3.8	6.7	1.5
14	1.7	--	1.9	2.2	0.8	1.0	1.2	1.7	1.6	1.5	0.9	1.2	1.2	0.8	0.5	0.2	1.0	1.5	0.6	0.6	0.5	0.3	0.2	-0.1	1.0	2.2	-0.1
15	0.2	--	0.3	0.1	0.2	0.8	1.3	0.4	1.0	0.9	0.9	2.2	0.9	0.5	1.1	2.5	2.1	0.7	1.2	0.4	-0.3	-0.4	-0.3	-0.2	0.7	2.5	-0.4
16	0.6	--	1.0	2.4	1.0	0.9	1.2	0.8	2.2	2.9	1.7	1.5	0.8	1.3	0.4	1.0	4.3	3.5	1.7	0.7	0.3	1.1	1.0	1.9	1.5	4.3	0.3
17	1.0	--	0.0	0.0	0.0	0.7	1.2	1.3	0.6	0.6	1.4	3.7	3.5	3.0	1.9	1.5	1.5	2.9	2.4	1.1	1.2	1.8	1.2	1.3	1.5	3.7	0.0
18	1.7	--	1.2	1.4	1.5	2.0	2.3	2.1	2.6	2.5	2.6	2.5	1.8	2.2	1.7	1.1	0.8	0.7	0.7	0.4	0.7	0.6	0.3	0.3	1.5	2.6	0.3
19	0.6	--	0.5	0.0	-0.2	-0.2	-0.1	0.0	0.0	0.1	0.3	0.3	0.4	0.0	-0.2	-0.2	-0.1	0.0	0.2	1.6	2.1	0.5	-0.1	-0.2	0.2	2.1	-0.2
20	-0.1	--	0.0	0.3	1.0	0.4	0.0	-0.2	1.9	1.5	0.0	3.7	1.2	--	--	-0.2	0.8	0.3	0.1	0.6	0.4	0.3	0.4	0.5	0.6	3.7	-0.2
21	0.6	--	0.5	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.4	0.6	0.8	0.9	0.9	0.9	1.1	1.1	1.4	1.3	1.2	1.3	1.2	1.6	0.8	1.6	0.2
22	1.3	--	0.9	0.7	0.6	0.7	0.7	1.1	1.7	1.8	1.4	2.9	3.3	2.6	1.6	1.1	0.9	1.1	1.1	1.6	1.2	0.8	0.7	1.3	1.4	3.3	0.6
23	2.2	--	2.1	2.5	4.3	2.4	0.3	0.1	0.5	0.9	2.1	1.7	0.7	0.5	0.5	0.7	0.9	1.5	1.9	1.8	1.6	2.1	2.1	1.7	1.5	4.3	0.1
24	1.8	--	1.6	1.6	1.3	1.2	1.0	1.0	1.9	1.5	1.3	1.0	1.0	1.1	1.0	0.9	1.1	1.2	2.1	1.9	1.6	1.1	0.6	0.4	1.3	2.1	0.4
25	-0.1	--	-0.4	-0.4	-0.1	0.1	-0.3	-0.2	0.1	0.3	0.3	0.5	1.1	0.6	0.0	0.3	0.3	0.8	2.1	1.1	0.6	0.4	0.8	0.9	0.4	2.1	-0.4
26	1.6	--	1.4	0.6	1.1	1.1	1.1	1.1	2.1	1.7	0.9	0.6	0.5	0.5	1.0	0.4	0.4	1.1	1.6	0.8	1.0	1.4	0.3	0.7	1.0	2.1	0.3
27	0.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--	1.5	0.9	0.6	0.7	0.4	1.3	1.5	2.9	1.8	1.1	0.3	1.5	--	--	--
31	1.2	--	0.0	0.0	0.6	1.0	1.5	2.1	2.2	2.6	1.9	1.3	0.9	0.7	0.6	0.4	1.1	2.1	1.6	0.8	0.3	0.2	0.4	0.2	1.0	2.6	0.0
Avg	1.2	--	1.0	1.1	1.0	1.2	1.0	1.1	1.7	1.7	1.5	1.6	1.4	1.1	1.0	0.9	1.1	1.3	1.3	1.3	1.1	1.1	1.0	1.2	1.2	--	--
Max	5.4	--	5.8	5.4	4.4	6.1	4.4	4.3	6.7	6.7	5.4	4.8	3.9	3.0	2.5	2.5	4.3	3.5	4.9	3.6	3.4	3.7	4.2	5.7	--	6.7	--
Min	-0.1	--	-0.4	-0.4	-0.2	-0.2	-0.3	-0.2	-0.1	0.1	0.0	0.1	0.1	0.0	-0.2	-0.2	-0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.3	-0.4	--	--	-0.4

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Oct 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	--	-1.3	-1.3	-1.3	-1.4	-1.3	-1.3	-1.4	-1.4	-1.3	-1.2	-1.2	--	--	1.0	0.9	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	-0.3	1.0	-1.4
2	--	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.9	1.0	0.9	0.9	1.0	1.0	0.8	0.9	0.8	0.8	0.8	0.9	0.9	0.8	0.8	0.9	0.8	1.0	0.6
3	--	0.8	0.8	0.8	0.8	0.9	1.2	1.2	1.2	1.9	1.7	1.3	0.9	0.8	0.7	0.7	0.8	0.8	0.9	1.0	0.9	0.8	0.9	1.0	1.0	1.9	0.7
4	--	0.8	0.8	0.9	0.8	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.9	1.0	0.9	0.9	0.8	0.9	0.9	0.8	0.7	0.6	0.6	0.7	0.8	1.0	0.6
5	--	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.7	0.6	0.7	0.8	0.6	0.8	0.5
6	--	0.6	0.6	0.7	0.6	1.0	0.8	1.0	0.7	1.0	2.2	0.9	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.7	1.0	1.0	2.4	0.9	2.4	0.6
7	--	3.9	4.3	3.5	2.0	0.9	0.7	0.8	0.8	0.7	0.6	0.6	0.6	0.7	0.8	1.2	0.9	0.8	0.7	0.7	0.6	0.6	0.8	0.9	1.2	4.3	0.6
8	--	0.9	0.7	0.9	2.1	1.3	0.7	1.2	1.7	4.3	1.8	1.8	1.0	0.9	0.8	0.9	0.8	0.9	0.9	0.9	0.8	0.8	1.0	1.3	1.2	4.3	0.7
9	--	0.8	0.7	1.1	1.1	1.4	1.2	1.3	1.5	--	--	--	--	--	--	--	--	0.9	0.9	0.9	0.7	0.8	0.8	1.1	--	--	--
10	--	0.8	0.8	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.8	0.7	0.8	0.6
11	--	0.7	0.8	0.7	0.7	0.7	0.6	0.6	0.8	0.8	0.7	0.7	1.2	1.5	1.6	1.7	1.6	1.5	1.4	1.2	1.0	0.9	0.9	1.0	1.0	1.7	0.6
12	--	0.9	0.8	0.9	0.7	0.8	1.8	5.5	8.3	2.7	1.0	1.0	1.4	1.7	1.9	1.8	2.0	1.6	1.1	1.0	0.9	0.7	0.8	1.0	1.8	8.3	0.7
13	--	0.8	0.8	0.9	0.9	1.5	2.6	2.5	1.8	2.5	2.0	0.8	0.6	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9	1.0	1.2	2.6	0.6
14	--	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.8	0.9	0.9	0.8	0.8	0.9	0.7	0.7	0.9	0.9	0.8	0.8	0.8	0.9	0.8	0.9	0.6
15	--	0.8	0.8	0.8	0.8	0.8	0.9	1.1	1.6	2.2	2.6	3.2	2.6	2.7	1.1	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	1.3	3.2	0.8
16	--	0.8	0.8	0.8	0.7	0.8	0.6	0.7	0.8	0.9	0.9	0.8	0.9	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.7	0.8	0.8	0.9	0.8	0.9	0.6
17	--	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	2.4	4.9	3.1	3.9	4.1	3.3	2.5	1.8	1.1	1.0	1.0	0.9	0.9	0.9	1.7	4.9	0.7
18	--	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	--	0.9	0.9	0.9	1.4	1.8	1.5	1.0	0.8	0.9	0.9	0.8	0.8	0.9	1.1	0.9	1.8	0.8
19	--	0.8	0.9	0.9	1.0	1.1	1.0	0.9	1.3	2.9	2.3	1.2	1.2	1.1	1.1	1.3	1.3	1.1	1.0	0.9	0.8	1.0	0.9	1.0	1.2	2.9	0.8
20	--	0.8	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.4	3.0	3.3	3.0	1.3	1.1	1.0	0.9	0.9	0.9	0.9	1.0	0.9	0.9	1.1	1.3	3.3	0.8
21	--	0.9	1.0	0.9	0.9	0.9	0.9	0.8	0.9	1.4	2.0	1.9	3.0	2.5	3.0	2.1	1.7	1.4	1.2	1.2	1.2	1.2	1.1	1.0	1.4	3.0	0.8
22	--	1.0	0.9	1.0	2.3	4.2	2.7	1.4	1.3	0.8	0.8	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	1.1	1.0	1.2	4.2	0.8
23	--	1.2	0.9	0.9	0.9	0.9	1.1	1.0	0.9	0.9	0.9	0.9	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.0	0.9	0.9	1.2	1.2	1.0	1.2	0.9
24	--	0.9	1.3	1.3	1.2	1.0	0.9	0.9	0.8	1.0	1.0	1.2	1.4	1.1	1.4	1.2	1.2	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.4	0.8
25	--	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	1.0	1.1	1.7	2.4	1.4	0.9	0.9	0.8	0.8	0.8	0.9	0.8	0.8	0.9	1.0	2.4	0.8
26	--	0.8	0.8	0.8	0.8	0.9	0.8	0.7	0.7	0.7	0.8	1.3	1.0	1.1	0.9	0.9	1.0	1.0	0.9	0.9	1.0	2.4	1.6	1.6	1.0	2.4	0.7
27	--	2.6	2.0	1.0	0.9	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.9	1.1	1.0	0.9	0.9	1.0	1.0	0.8	0.9	1.0	0.9	0.9	1.0	2.6	0.7
28	--	1.0	0.9	0.9	1.0	1.0	1.0	1.2	1.2	1.1	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.2	0.8
29	--	0.8	1.0	1.2	1.0	1.0	1.2	1.2	1.0	0.9	0.9	0.6	0.8	0.9	0.9	0.8	0.8	0.9	0.8	0.8	0.8	0.9	0.8	0.9	0.9	1.2	0.6
30	--	0.8	0.8	0.8	0.8	0.6	0.8	0.8	1.0	0.9	0.8	0.8	0.9	0.8	--	0.7	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.9	0.8	1.0	0.6
31	--	0.9	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.8	1.0	1.0	1.4	1.1	1.2	1.1	1.0	0.8	0.9	0.9	0.9	0.9	0.9	0.9	1.4	0.7
Avg	--	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.1	1.2	1.2	1.2	1.2	1.3	1.2	1.1	1.0	1.0	0.9	0.9	0.8	0.9	0.9	1.0	1.0	--	--
Max	--	3.9	4.3	3.5	2.3	4.2	2.7	5.5	8.3	4.3	3.0	4.9	3.1	3.9	4.1	3.3	2.5	1.8	1.4	1.2	1.2	2.4	1.6	2.4	--	8.3	--
Min	--	-1.3	-1.3	-1.3	-1.4	-1.3	-1.3	-1.4	-1.4	-1.3	-1.2	-1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.7	--	--	-1.4

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Nov 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	--	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.7	0.8	0.8	1.1	1.2	1.1	1.1	1.0	1.6	3.3	1.3	2.5	3.8	1.2	3.8	0.7
2	--	1.4	1.3	2.5	6.0	3.5	2.2	2.5	2.0	1.0	0.8	0.8	0.8	0.9	1.0	1.1	1.2	0.9	0.9	0.9	0.9	0.9	1.0	1.1	1.6	6.0	0.8
3	--	0.9	2.2	2.3	6.5	5.6	2.9	1.5	1.1	1.1	1.9	2.7	1.5	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.9	0.9	1.8	6.5	0.9
4	0.8	--	0.9	0.9	1.2	1.6	2.4	2.2	1.4	1.5	1.2	1.3	1.1	0.9	1.0	1.0	1.0	1.1	1.0	1.1	1.1	1.0	1.0	0.9	1.2	2.4	0.8
5	1.0	--	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.8	0.9	0.8	0.8	1.0	0.9	0.9	0.9	0.9	0.9	0.8	1.2	1.0	0.8	0.9	1.2	0.8
6	0.9	--	0.9	0.9	0.8	0.8	0.8	1.0	1.1	0.7	0.8	1.9	2.5	1.1	0.8	0.7	0.7	0.8	0.7	0.8	3.6	6.0	2.2	1.1	1.4	6.0	0.7
7	1.4	--	2.9	2.9	3.1	4.0	2.1	2.1	2.4	1.0	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.5	1.3	0.9	1.5	4.0	0.7
8	1.0	--	0.8	0.9	0.8	0.8	0.9	1.2	1.5	1.2	0.9	0.8	0.9	1.0	1.0	1.1	1.0	0.9	0.8	0.9	0.8	0.9	0.9	0.9	0.9	1.5	0.8
9	1.2	--	1.0	0.9	0.9	0.9	0.9	1.0	1.0	1.1	1.2	0.9	0.9	1.1	1.2	1.2	1.0	1.0	1.1	1.0	0.9	0.9	0.9	0.6	1.0	1.2	0.6
10	1.3	--	0.9	0.9	0.8	0.9	0.8	0.9	0.8	1.3	2.2	3.3	2.7	2.8	2.0	1.5	3.0	6.8	1.7	2.5	1.3	1.0	1.0	1.0	1.8	6.8	0.8
11	1.1	--	0.9	0.9	1.0	1.2	2.0	2.7	2.5	1.7	2.0	2.5	1.8	1.1	0.9	0.9	1.3	2.2	1.9	1.1	1.0	0.9	1.0	1.2	1.5	2.7	0.9
12	1.1	--	1.2	2.8	1.3	1.2	2.0	3.6	1.6	2.9	3.2	0.9	0.8	0.8	0.7	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	1.4	3.6	0.7
13	0.9	--	0.7	0.7	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.8	0.8	0.9	0.9	0.9	0.8	0.9	0.8	0.9	0.8	0.8	0.9	0.7
14	0.9	--	0.8	0.9	0.9	0.9	0.9	0.9	1.5	1.9	2.4	1.1	1.0	1.2	1.3	1.3	1.4	1.4	1.4	1.3	1.2	1.2	1.2	1.1	1.2	2.4	0.8
15	1.2	--	1.5	4.1	5.3	4.9	6.6	7.3	1.9	1.8	1.6	2.0	2.3	1.2	--	1.2	1.1	1.1	1.2	1.1	1.2	1.1	1.0	1.0	2.4	7.3	1.0
16	1.1	--	0.9	1.0	0.9	0.9	1.0	1.0	1.0	1.0	0.9	0.9	1.0	0.9	0.9	0.9	1.0	1.0	1.0	0.9	1.0	1.0	0.9	0.9	1.0	1.1	0.9
17	1.0	--	0.9	0.9	0.9	0.7	0.8	0.9	0.9	0.9	0.9	1.1	1.4	1.8	1.7	1.4	1.1	1.0	1.0	1.0	1.0	1.1	1.1	2.5	1.1	2.5	0.7
18	2.9	--	1.2	1.1	1.1	1.1	1.0	1.3	2.2	3.5	2.7	2.8	2.3	1.0	1.2	1.4	1.4	1.2	1.1	1.0	1.0	1.0	1.0	1.1	1.6	3.5	1.0
19	--	1.1	1.1	1.1	1.0	1.0	1.0	1.1	1.1	1.6	2.9	1.6	1.5	3.7	1.9	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.4	3.7	1.0
20	--	1.0	1.0	1.0	1.1	1.1	1.0	1.1	1.1	1.4	1.7	5.9	4.1	1.8	1.2	1.1	1.0	1.0	1.1	1.1	1.0	1.1	1.0	1.0	1.5	5.9	1.0
21	--	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1.1	4.4	3.9	4.6	1.9	1.4	1.4	1.4	1.4	1.4	1.4	1.2	1.1	1.0	1.0	1.0	1.6	4.6	1.0
22	--	1.0	1.0	1.0	1.1	1.5	2.2	1.9	1.2	1.0	0.9	0.9	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	0.9	0.9	0.9	1.0	1.1	2.2	0.9
23	--	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.9	0.8	0.9	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	1.0	0.8
24	--	0.9	0.9	0.8	0.8	0.8	0.9	0.9	0.8	0.9	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	0.9	0.8	0.9	0.9	1.0	0.8
25	--	0.9	1.1	1.7	1.2	1.4	1.3	1.3	1.2	1.2	1.4	1.4	0.8	0.9	1.1	0.9	1.0	1.0	1.0	1.1	1.0	1.6	2.7	1.6	1.3	2.7	0.8
26	--	4.6	7.7	3.8	3.8	3.4	2.5	1.7	1.8	1.1	1.0	0.8	0.9	0.9	0.9	0.7	1.3	0.9	0.9	0.9	0.9	0.8	0.8	0.9	1.9	7.7	0.7
27	--	0.9	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	--	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.8
28	--	0.9	1.0	1.0	0.9	1.0	0.9	1.0	0.9	0.9	0.9	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.1	1.0	1.1	1.0	1.4	0.8
29	--	1.0	0.9	0.9	0.8	1.0	1.0	0.9	0.9	0.9	1.0	1.0	1.1	1.1	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.3	1.0	1.3	0.8
30	--	2.5	2.1	2.3	2.3	2.2	2.8	2.8	2.1	2.3	1.8	2.1	1.8	1.3	1.1	1.0	1.1	1.0	1.0	1.0	1.0	0.9	1.0	1.0	1.7	2.8	0.9
Avg	1.2	1.3	1.3	1.4	1.7	1.6	1.5	1.6	1.3	1.4	1.5	1.6	1.4	1.2	1.1	1.0	1.1	1.2	1.1	1.1	1.2	1.2	1.1	1.1	1.3	--	--
Max	2.9	4.6	7.7	4.1	6.5	5.6	6.6	7.3	2.5	4.4	3.9	5.9	4.1	3.7	2.0	1.5	3.0	6.8	1.9	2.5	3.6	6.0	2.7	3.8	--	7.7	--
Min	0.8	0.8	0.7	0.7	0.8	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.8	0.7	0.8	0.8	0.8	0.8	0.6	--	--	0.6

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Dec 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	1.8	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.0	1.2	1.0	0.9	1.0	0.9	0.9	0.9	0.9	0.9	1.1	2.0	0.9
2	--	0.9	0.8	0.9	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.1	1.4	1.8	1.8	2.2	2.9	2.6	2.3	2.0	1.9	1.9	1.4	2.9	0.8
3	--	1.3	1.3	1.2	1.4	1.3	1.2	1.1	1.4	1.7	2.2	3.2	4.1	2.4	1.4	1.2	0.9	0.8	1.1	1.1	1.1	1.1	1.2	1.1	1.5	4.1	0.8
4	--	1.3	1.3	1.2	1.2	1.0	1.2	1.4	1.4	1.3	1.1	1.1	1.1	1.0	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.4	1.0
5	--	1.0	1.0	1.1	1.0	1.1	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	0.9	1.0	1.1	1.1	1.0	1.1	0.9
6	--	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.8	1.6	1.4	1.4	1.7	2.0	1.9	1.2	1.0	1.0	1.0	1.0	1.0	1.1	1.2	1.2	2.0	0.8
7	--	1.1	1.0	1.1	1.1	1.1	1.1	1.2	1.1	1.2	5.4	7.7	7.6	2.3	1.6	1.1	1.1	1.1	1.0	1.0	1.1	1.1	0.9	1.0	1.9	7.7	0.9
8	--	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.1	0.9
9	--	1.0	1.1	1.0	1.0	1.0	1.0	0.9	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.1	0.9
10	--	1.3	1.2	1.7	1.2	0.9	0.8	0.9	1.0	1.0	1.1	1.1	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.1	1.1	1.2	1.1	1.7	0.8
11	--	1.1	1.2	1.1	1.2	1.1	1.1	1.1	1.2	1.3	1.1	0.9	0.9	1.0	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.1	0.9	1.0	1.0	1.3	0.9
12	--	0.9	0.9	0.9	1.0	1.0	1.0	1.0	0.9	0.9	0.9	1.0	0.9	1.0	0.7	--	3.7	1.3	1.0	1.0	1.0	1.1	0.9	1.9	1.1	3.7	0.7
13	--	1.2	1.2	1.1	1.2	1.1	1.1	1.2	1.1	1.3	1.2	1.2	1.1	1.3	1.4	1.3	1.3	1.4	1.4	1.3	1.3	1.3	1.2	1.3	1.2	1.4	1.1
14	--	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.3	1.5	1.2	1.4	2.2	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.4	1.3	2.2	1.1
15	--	1.1	1.3	2.0	1.5	1.4	1.2	1.6	2.3	3.8	3.6	3.4	2.8	3.5	2.6	2.2	3.6	3.0	4.3	2.4	1.1	1.1	1.1	1.2	2.3	4.3	1.1
16	--	1.5	1.3	5.2	4.8	3.8	1.6	2.0	2.9	3.3	7.3	4.7	3.3	1.6	2.0	3.4	5.3	5.2	1.6	1.2	1.5	2.8	3.1	2.0	3.1	7.3	1.2
17	--	1.3	1.2	1.2	1.3	1.5	1.5	1.5	1.4	1.4	3.3	3.3	6.1	3.4	1.7	1.3	1.3	2.2	5.1	2.1	3.6	3.6	3.4	4.1	2.5	6.1	1.2
18	--	3.4	2.7	2.5	3.1	2.6	2.2	2.9	3.1	1.9	3.2	2.6	1.2	1.2	1.1	1.2	1.2	1.2	1.3	1.3	1.5	2.2	2.6	3.1	2.1	3.4	1.1
19	--	3.4	2.7	2.2	1.9	1.6	1.6	1.7	1.7	1.7	1.8	1.5	1.4	1.3	1.5	1.3	1.3	1.4	1.5	1.5	1.5	1.4	1.3	1.4	1.7	3.4	1.3
20	--	1.3	1.3	1.1	1.4	1.3	1.4	1.4	1.3	1.3	1.3	1.5	1.6	--	--	1.4	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.2	1.3	1.6	1.1
21	--	1.1	1.2	1.2	1.0	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.2	1.1	1.2	1.0
22	--	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.2	1.7	1.7	1.5	2.4	2.0	1.4	1.2	1.1	1.0	1.1	1.0	1.5	1.3	2.4	1.0
23	--	1.1	1.8	4.6	2.0	1.4	1.1	1.5	3.4	2.5	2.8	2.3	1.2	1.0	1.1	1.1	1.0	1.0	1.6	3.5	3.2	4.4	4.1	3.4	2.2	4.6	1.0
24	--	3.1	3.6	3.3	3.0	2.7	2.4	1.6	2.2	3.2	1.5	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.8	2.5	7.9	5.9	2.7	1.3	2.4	7.9	1.0
25	--	1.1	1.1	1.1	1.0	1.1	1.1	1.0	0.9	0.9	1.1	1.0	2.2	3.3	1.4	2.7	2.4	1.7	1.2	2.2	1.5	1.0	4.4	3.1	1.7	4.4	0.9
26	--	3.4	3.1	1.9	1.9	3.1	2.6	1.6	1.8	1.2	0.9	0.8	1.1	1.0	1.0	1.0	1.0	1.0	1.1	2.0	2.4	1.8	1.4	2.1	1.7	3.4	0.8
27	--	1.9	2.9	3.5	5.1	7.1	3.1	2.5	2.1	2.6	2.1	--	1.0	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.4	2.4	1.5	1.5	2.2	7.1	1.0
28	--	1.6	1.9	1.7	2.6	1.5	1.2	1.3	2.5	3.1	5.3	3.8	2.1	1.1	1.3	1.3	1.5	2.4	1.8	1.8	1.8	1.8	2.1	2.1	2.1	5.3	1.1
29	--	2.7	3.3	3.3	3.9	2.7	3.0	2.6	1.7	1.4	1.5	1.6	1.6	1.6	1.6	1.5	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.3	2.0	3.9	1.3
30	--	1.1	1.1	1.2	1.2	1.2	1.3	1.2	1.1	1.1	1.5	1.7	1.6	1.4	1.3	1.4	1.3	1.4	1.5	3.4	6.7	5.6	2.4	11.8	2.3	11.8	1.1
31	--	3.8	2.6	2.4	7.4	16.8	17.2	10.3	7.5	5.8	2.5	1.4	1.3	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	4.0	17.2	1.2
Avg	--	1.6	1.6	1.8	1.9	2.1	1.9	1.7	1.7	1.7	2.0	1.9	1.8	1.5	1.3	1.4	1.5	1.4	1.5	1.5	1.8	1.8	1.7	2.0	1.7	--	--
Max	--	3.8	3.6	5.2	7.4	16.8	17.2	10.3	7.5	5.8	7.3	7.7	7.6	3.5	2.6	3.4	5.3	5.2	5.1	3.5	7.9	5.9	4.4	11.8	--	17.2	--
Min	--	0.9	0.8	0.9	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.8	0.9	0.9	0.7	0.9	0.9	0.8	1.0	0.9	0.9	0.9	0.9	0.9	--	--	0.7

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Oct 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	0.047	0.046	0.046	0.046	0.046	0.046	0.045	0.044	0.045	0.045	0.045	0.044	0.044	0.044	0.043	0.043	0.043	0.042	0.041	0.040	0.039	0.039	0.038	0.037	0.043	0.047	0.037
2	0.035	0.034	0.033	0.033	0.032	0.031	0.031	0.031	0.032	0.033	0.034	0.034	0.035	0.035	0.035	0.034	0.034	0.033	0.031	0.031	0.030	0.029	0.028	0.027	0.032	0.035	0.027
3	0.026	0.026	0.026	0.028	0.029	0.030	0.032	0.033	0.035	0.035	0.036	0.036	0.036	0.036	0.036	0.035	0.035	0.035	0.034	0.034	0.033	0.032	0.031	0.030	0.032	0.036	0.026
4	0.029	0.029	0.030	0.031	0.034	0.036	0.039	0.042	0.046	0.049	0.051	0.052	0.052	0.052	0.051	0.049	0.047	0.044	0.041	0.040	0.038	0.037	0.036	0.035	0.041	0.052	0.029
5	0.035	0.035	0.035	0.035	0.035	0.036	0.036	0.036	0.036	0.037	0.037	0.038	0.038	0.038	0.037	0.038	0.038	0.038	0.037	0.037	0.037	0.037	0.036	0.036	0.037	0.038	0.035
6	0.036	0.035	0.035	0.035	0.036	0.036	0.038	0.039	0.040	0.042	0.043	0.044	0.044	0.043	0.043	0.042	0.041	0.040	0.039	0.038	0.037	0.037	0.037	0.037	0.039	0.044	0.035
7	0.037	0.037	0.037	0.038	0.039	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.046	0.046	0.046	0.046	0.045	0.045	0.044	0.044	0.044	0.043	0.043	0.042	0.046	0.037
8	0.042	0.040	0.040	0.041	0.042	0.042	0.043	0.043	0.044	0.045	0.045	0.045	0.044	0.044	0.044	0.043	0.042	0.041	0.040	0.040	0.038	0.036	0.034	0.033	0.041	0.045	0.033
9	0.031	0.031	0.030	0.030	--	--	--	--	--	--	--	--	--	--	--	0.038	0.038	0.035	0.032	0.032	0.032	0.032	0.032	0.033	--	--	--
10	0.034	0.037	0.039	0.039	0.040	0.040	0.040	0.041	0.042	0.044	0.045	0.046	0.047	0.046	0.045	0.044	0.043	0.042	0.041	0.040	0.040	0.041	0.041	0.040	0.042	0.047	0.034
11	0.039	0.038	0.039	0.040	0.041	0.043	0.044	0.047	0.049	0.051	0.052	0.053	0.052	0.052	0.051	0.050	0.049	0.047	0.046	0.045	0.044	0.043	0.042	0.042	0.046	0.053	0.038
12	0.041	0.041	0.041	0.042	0.042	0.042	0.042	0.042	0.043	0.044	0.045	0.045	0.046	0.047	0.047	0.047	0.047	0.046	0.045	0.044	0.043	0.043	0.043	0.043	0.044	0.047	0.041
13	0.042	0.042	0.042	0.041	0.041	0.041	0.041	0.042	0.044	0.045	0.046	0.048	0.049	0.049	0.049	0.049	0.048	0.048	0.046	0.046	0.045	0.043	0.042	0.040	0.045	0.049	0.040
14	0.038	0.037	0.037	0.038	0.039	0.040	0.042	0.044	0.046	0.048	0.050	0.051	0.053	0.054	0.054	0.054	0.054	0.054	0.053	0.053	0.052	0.051	0.051	0.051	0.048	0.054	0.037
15	0.050	0.050	0.050	0.051	0.052	0.052	0.053	0.054	0.055	0.056	0.057	0.057	0.057	0.057	0.057	0.057	0.056	0.054	0.052	0.052	0.049	0.048	0.046	0.044	0.053	0.057	0.044
16	0.042	0.041	0.041	0.041	0.042	0.042	0.044	0.045	0.047	0.048	0.050	0.051	0.052	0.052	0.052	0.052	0.051	0.050	0.049	0.048	0.046	0.045	0.043	0.042	0.047	0.052	0.041
17	0.040	0.040	0.040	0.041	0.042	0.043	0.045	0.047	0.050	0.052	0.054	0.055	0.055	0.055	0.055	0.054	0.053	0.052	0.051	0.050	0.049	0.048	0.048	0.047	0.049	0.055	0.040
18	0.046	0.045	0.045	0.045	0.044	0.044	0.044	0.045	0.046	0.047	0.048	0.049	0.050	0.050	0.049	0.048	0.046	0.045	0.043	0.042	0.040	0.040	0.039	0.039	0.045	0.050	0.039
19	0.039	0.039	0.039	0.039	0.040	0.040	0.041	0.042	0.044	0.045	0.046	0.048	0.048	0.049	0.048	0.048	0.047	0.046	0.045	0.044	0.043	0.042	0.042	0.041	0.044	0.049	0.039
20	0.040	0.039	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.047	0.047	0.047	0.046	0.046	0.046	0.046	0.045	0.045	0.044	0.044	0.043	0.043	0.044	0.047	0.039
21	0.042	0.041	0.041	0.041	0.041	0.041	0.042	0.043	0.044	0.045	0.045	0.045	0.046	0.045	0.045	0.044	0.044	0.043	0.042	0.041	0.040	0.040	0.040	0.039	0.042	0.046	0.039
22	0.038	0.037	0.037	0.038	0.038	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.044	0.044	0.043	0.043	0.042	0.042	0.041	0.041	0.041	0.041	0.041	0.042	0.041	0.044	0.037
23	0.042	0.042	0.043	0.044	0.045	0.045	0.045	0.046	0.046	0.046	0.046	0.046	0.046	0.045	0.045	0.044	0.043	0.041	0.040	0.040	0.038	0.037	0.036	0.035	0.043	0.046	0.035
24	0.035	0.035	0.035	0.036	0.037	0.038	0.039	0.040	0.042	0.043	0.044	0.045	0.045	0.045	0.044	0.043	0.042	0.041	0.040	0.040	0.039	0.039	0.039	0.038	0.040	0.045	0.035
25	0.038	0.036	0.036	0.037	0.036	0.037	0.037	0.038	0.039	0.039	0.039	0.038	0.038	0.037	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.037	0.037	0.037	0.039	0.036
26	0.036	0.036	0.037	0.037	0.037	0.038	0.038	0.039	0.040	0.040	0.041	0.042	0.042	0.041	0.040	0.040	0.039	0.038	0.037	0.036	0.035	0.035	0.035	0.034	0.038	0.042	0.034
27	0.034	0.034	0.034	0.035	0.035	0.036	0.037	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.046	0.046	0.046	0.045	0.045	0.045	0.044	0.043	0.043	0.041	0.046	0.034
28	0.043	0.042	0.041	0.040	0.039	0.038	0.036	0.035	0.033	0.032	0.030	0.029	0.027	0.026	0.025	0.024	0.022	0.021	0.020	0.020	0.019	0.019	0.019	0.019	0.029	0.043	0.019
29	0.019	0.019	0.020	0.020	0.020	0.021	0.022	0.023	0.024	0.026	0.027	0.029	0.031	0.032	0.033	0.033	0.033	0.033	0.032	0.032	0.031	0.031	0.030	0.030	0.027	0.033	0.019
30	0.030	0.031	0.032	0.032	0.033	0.035	0.036	0.037	0.038	0.040	0.040	0.041	0.042	0.042	0.041	0.041	0.041	0.040	0.039	0.039	0.038	0.038	0.037	0.036	0.038	0.042	0.030
31	0.035	0.035	0.035	0.035	0.036	0.037	0.038	0.040	0.041	0.042	0.043	0.044	0.044	0.043	0.042	0.042	0.041	0.040	0.039	0.039	0.038	0.038	0.038	0.037	0.039	0.044	0.035
Avg	0.037	0.037	0.037	0.038	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.045	0.045	0.044	0.044	0.043	0.042	0.041	0.040	0.040	0.039	0.038	0.038	0.041	--	--
Max	0.050	0.050	0.050	0.051	0.052	0.052	0.053	0.054	0.055	0.056	0.057	0.057	0.057	0.057	0.057	0.057	0.056	0.054	0.053	0.053	0.052	0.051	0.051	0.051	--	0.057	--
Min	0.019	0.019	0.020	0.020	0.020	0.021	0.022	0.023	0.024	0.026	0.027	0.029	0.027	0.026	0.025	0.024	0.022	0.021	0.020	0.020	0.019	0.019	0.019	0.019	–	--	0.019

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Nov 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	0.036	0.036	0.036	0.036	0.035	0.036	0.036	0.037	0.038	0.039	0.041	0.041	0.041	0.041	0.040	0.039	0.039	0.038	0.036	0.035	0.036	0.036	0.036	0.036	0.037	0.041	0.035
2	0.035	0.035	0.036	0.036	0.037	0.038	0.039	0.040	0.041	0.041	0.042	0.042	0.042	0.041	0.041	0.041	0.040	0.040	0.039	0.039	0.038	0.036	0.034	0.032	0.039	0.042	0.032
3	0.030	0.029	0.028	0.028	0.027	0.027	0.028	0.028	0.028	0.029	0.030	0.030	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.030	0.030	0.030	0.031	0.027
4	0.029	0.028	0.027	0.027	0.027	0.027	0.027	0.028	0.029	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.032	0.031	0.031	0.029	0.029	0.028	0.027	0.027	0.029	0.032	0.027
5	0.027	0.027	0.028	0.030	0.031	0.033	0.035	0.035	0.037	0.038	0.039	0.040	0.040	0.040	0.040	0.039	0.039	0.038	0.037	0.036	0.035	0.036	0.036	0.036	0.036	0.040	0.027
6	0.037	0.037	0.038	0.038	0.038	0.038	0.039	0.039	0.040	0.040	0.040	0.040	0.040	0.040	0.039	0.039	0.039	0.038	0.038	0.037	0.037	0.036	0.036	0.035	0.038	0.040	0.035
7	0.035	0.034	0.034	0.035	0.035	0.036	0.037	0.038	0.039	0.040	0.041	0.041	0.040	0.040	0.039	0.038	0.037	0.036	0.035	0.034	0.034	0.033	0.033	0.033	0.036	0.041	0.033
8	0.033	0.033	0.033	0.034	0.034	0.035	0.035	0.036	0.037	0.038	0.039	0.039	0.040	0.040	0.039	0.039	0.039	0.038	0.038	0.038	0.037	0.037	0.036	0.036	0.037	0.040	0.033
9	0.035	0.034	0.034	0.035	0.035	0.036	0.037	0.038	0.038	0.039	0.039	0.039	0.039	0.038	0.037	0.037	0.037	0.036	0.036	0.035	0.035	0.035	0.035	0.035	0.036	0.039	0.034
10	0.034	0.033	0.033	0.033	0.033	0.033	0.033	0.034	0.035	0.036	0.036	0.037	0.037	0.037	0.036	0.035	0.034	0.034	0.033	0.032	0.032	0.032	0.032	0.031	0.034	0.037	0.031
11	0.031	0.031	0.031	0.032	0.032	0.033	0.034	0.035	0.036	0.037	0.037	0.037	0.037	0.037	0.036	0.036	0.036	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.037	0.031
12	0.035	0.034	0.034	0.034	0.035	0.035	0.035	0.036	0.036	0.037	0.037	0.037	0.037	0.036	0.036	0.036	0.035	0.034	0.033	0.033	0.032	0.032	0.031	0.030	0.035	0.037	0.030
13	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.030	0.030	0.029	0.029	0.029	0.029	0.030	0.031	0.029
14	0.029	0.029	0.030	0.031	0.031	0.032	0.034	0.035	0.037	0.039	0.040	0.041	0.042	0.042	0.041	0.041	0.040	0.040	0.039	0.038	0.038	0.037	0.036	0.035	0.037	0.042	0.029
15	0.035	0.035	0.035	0.035	0.036	0.036	0.037	0.038	0.038	0.037	0.036	0.035	0.034	0.033	0.031	0.031	0.030	0.030	0.029	0.029	0.029	0.029	0.030	0.030	0.033	0.038	0.029
16	0.031	0.031	0.032	0.033	0.033	0.033	0.034	0.035	0.036	0.036	0.037	0.038	0.038	0.038	0.038	0.038	0.037	0.037	0.037	0.036	0.036	0.035	0.034	0.034	0.035	0.038	0.031
17	0.033	0.033	0.032	0.032	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.034	0.034	0.034	0.033	0.033	0.033	0.032	0.032	0.032	0.032	0.032	0.031	0.031	0.033	0.034	0.031
18	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.033	0.034	0.034	0.035	0.036	0.036	0.035	0.035	0.035	0.034	0.034	0.033	0.033	0.033	0.033	0.033	0.032	0.033	0.036	0.030
19	0.031	0.030	0.030	0.030	0.031	0.032	0.032	0.034	0.036	0.038	0.039	0.040	0.041	0.041	0.042	0.041	0.040	0.039	0.038	0.038	0.037	0.035	0.034	0.033	0.036	0.042	0.030
20	0.032	0.031	0.031	0.031	0.032	0.032	0.033	0.035	0.036	0.038	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.040	0.039	0.038	0.037	0.040	0.031
21	0.037	0.036	0.035	0.035	0.035	0.034	0.035	0.035	0.036	0.036	0.036	0.036	0.036	0.035	0.034	0.033	0.032	0.031	0.030	0.029	0.028	0.027	0.027	0.027	0.033	0.037	0.027
22	0.026	0.026	0.025	0.025	0.027	0.028	0.029	0.031	0.033	0.034	0.035	0.036	0.036	0.035	0.034	0.033	0.033	0.032	0.030	0.029	0.028	0.026	0.025	0.024	0.030	0.036	0.024
23	0.022	0.022	0.022	0.022	0.022	0.022	0.023	0.023	0.023	0.023	0.023	0.023	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.025	0.025	0.025	0.025	0.025	0.023	0.025	0.022
24	0.026	0.026	0.026	0.026	0.026	0.027	0.027	0.027	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.027	0.027	0.026	0.026	0.025	0.027	0.028	0.025
25	0.025	0.024	0.024	0.024	0.024	0.025	0.026	0.027	0.028	0.029	0.030	0.030	0.030	0.030	0.029	0.029	0.029	0.028	0.028	0.028	0.028	0.029	0.029	0.028	0.028	0.030	0.024
26	0.028	0.028	0.027	0.027	0.027	0.028	0.029	0.030	0.032	0.033	0.035	0.036	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.036	0.036	0.036	0.033	0.037	0.027
27	0.036	0.035	0.035	0.035	0.035	0.035	0.036	0.036	0.037	0.037	0.037	0.038	0.038	0.037	0.037	0.037	0.036	0.036	0.036	0.035	0.035	0.035	0.035	0.035	0.036	0.038	0.035
28	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.035	0.035	0.036	0.036	0.036	0.036	0.036	0.036	0.035	0.035	0.035	0.035	0.035	0.034	0.034	0.033	0.033	0.035	0.036	0.033
29	0.032	0.032	0.032	0.031	0.032	0.032	0.032	0.033	0.034	0.034	0.035	0.035	0.036	0.036	0.036	0.035	0.034	0.034	0.033	0.033	0.033	0.032	0.032	0.032	0.033	0.036	0.031
30	0.032	0.031	0.031	0.031	0.030	0.030	0.030	0.030	0.030	0.030	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.030	0.029	0.028	0.027	0.026	0.029	0.032	0.026
Avg	0.032	0.031	0.031	0.031	0.032	0.032	0.033	0.033	0.034	0.035	0.036	0.036	0.036	0.036	0.035	0.035	0.035	0.034	0.034	0.033	0.033	0.033	0.032	0.032	0.033	--	--
Max	0.037	0.037	0.038	0.038	0.038	0.038	0.039	0.040	0.041	0.041	0.042	0.042	0.042	0.042	0.042	0.041	0.040	0.040	0.039	0.039	0.039	0.040	0.039	0.038	--	0.042	--
Min	0.022	0.022	0.022	0.022	0.022	0.022	0.023	0.023	0.023	0.023	0.023	0.023	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.025	0.025	0.025	0.025	0.024	--	--	0.022

SAROAD for Resolution, East_Plant, rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Dec 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	0.025	0.024	0.023	0.024	0.024	0.024	0.025	0.027	0.028	0.030	0.030	0.031	0.031	0.031	0.031	0.031	0.030	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.028	0.031	0.023
2	0.029	0.029	0.029	0.029	0.030	0.031	0.031	0.032	0.033	0.034	0.035	0.036	0.036	0.035	0.035	0.035	0.035	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.033	0.036	0.029
3	0.035	0.035	0.034	0.035	0.036	0.037	0.037	0.038	0.039	0.039	0.040	0.039	0.039	0.038	0.037	0.036	0.035	0.034	0.034	0.034	0.033	0.033	0.033	0.034	0.036	0.040	0.033
4	0.034	0.035	0.035	0.035	0.036	0.036	0.037	0.037	0.036	0.036	0.035	0.035	0.034	0.033	0.032	0.032	0.031	0.031	0.032	0.031	0.033	0.034	0.035	0.035	0.034	0.037	0.031
5	0.036	0.036	0.035	0.035	0.036	0.036	0.037	0.038	0.039	0.040	0.041	0.041	0.040	0.040	0.039	0.038	0.037	0.036	0.035	0.035	0.036	0.036	0.035	0.035	0.037	0.041	0.035
6	0.034	0.034	0.034	0.035	0.035	0.035	0.036	0.038	0.039	0.041	0.042	0.042	0.042	0.041	0.041	0.040	0.039	0.038	0.038	0.037	0.037	0.037	0.037	0.038	0.038	0.042	0.034
7	0.038	0.038	0.038	0.038	0.038	0.039	0.039	0.040	0.040	0.041	0.042	0.042	0.042	0.042	0.042	0.041	0.041	0.040	0.040	0.040	0.040	0.039	0.039	0.038	0.040	0.042	0.038
8	0.038	0.037	0.036	0.037	0.037	0.037	0.037	0.038	0.039	0.040	0.040	0.041	0.041	0.041	0.040	0.040	0.039	0.038	0.037	0.037	0.034	0.032	0.031	0.030	0.037	0.041	0.030
9	0.028	0.027	0.027	0.028	0.029	0.031	0.032	0.034	0.036	0.038	0.038	0.039	0.039	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.036	0.040	0.027
10	0.040	0.040	0.040	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.038	0.038	0.037	0.037	0.037	0.036	0.036	0.036	0.035	0.035	0.038	0.040	0.035
11	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.035	0.035	0.034	0.034	0.034	0.034	0.033	0.033	0.033	0.032	0.035	0.036	0.032
12	0.032	0.031	0.030	0.030	0.030	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.029	0.028	0.027	0.027	0.025	0.025	0.024	0.023	0.023	0.023	0.023	0.028	0.032	0.023
13	0.023	0.023	0.024	0.024	0.026	0.027	0.029	0.030	0.032	0.034	0.036	0.037	0.038	0.038	0.038	0.037	0.037	0.036	0.035	0.035	0.034	0.034	0.034	0.034	0.032	0.038	0.023
14	0.035	0.035	0.035	0.035	0.036	0.036	0.036	0.037	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.037	0.037	0.037	0.036	0.036	0.036	0.036	0.036	0.037	0.038	0.035
15	0.036	0.036	0.036	0.037	0.037	0.037	0.038	0.038	0.039	0.039	0.039	0.038	0.039	0.039	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.037	0.037	0.038	0.039	0.036
16	0.037	0.037	0.036	0.036	0.037	0.037	0.037	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.037	0.037	0.036	0.036	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.038	0.036
17	0.037	0.037	0.037	0.037	0.037	0.036	0.036	0.037	0.037	0.038	0.038	0.038	0.039	0.039	0.039	0.038	0.038	0.037	0.037	0.036	0.036	0.036	0.035	0.035	0.037	0.039	0.035
18	0.035	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.034	0.034	0.035	0.036	0.037	0.037	0.035	0.037	0.034
19	0.038	0.038	0.039	0.039	0.039	0.039	0.040	0.040	0.040	0.040	0.040	0.040	0.039	0.038	0.038	0.037	0.037	0.036	0.036	0.036	0.036	0.035	0.035	0.035	0.038	0.040	0.035
20	0.036	0.036	0.036	0.037	0.037	0.037	0.038	0.038	0.038	0.037	0.038	0.037	0.038	0.037	0.037	0.037	0.036	0.035	0.034	0.034	0.033	0.033	0.032	0.032	0.036	0.038	0.032
21	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.033	0.033	0.033	0.034	0.034	0.035	0.035	0.035	0.035	0.035	0.034	0.034	0.033	0.033	0.032	0.032	0.033	0.035	0.032
22	0.031	0.031	0.031	0.031	0.031	0.032	0.032	0.032	0.033	0.035	0.035	0.036	0.036	0.035	0.035	0.034	0.033	0.032	0.031	0.030	0.029	0.029	0.029	0.030	0.032	0.036	0.029
23	0.031	0.032	0.032	0.033	0.033	0.035	0.036	0.037	0.038	0.038	0.039	0.039	0.039	0.039	0.038	0.037	0.037	0.036	0.035	0.035	0.035	0.035	0.035	0.036	0.036	0.039	0.031
24	0.036	0.036	0.036	0.036	0.037	0.037	0.038	0.038	0.039	0.039	0.039	0.039	0.039	0.039	0.038	0.038	0.037	0.037	0.037	0.037	0.037	0.038	0.039	0.039	0.038	0.039	0.036
25	0.040	0.041	0.041	0.041	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.039	0.038	0.037	0.037	0.037	0.036	0.036	0.036	0.036	0.039	0.041	0.036
26	0.036	0.035	0.035	0.035	0.035	0.036	0.036	0.037	0.038	0.038	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.038	0.038	0.038	0.038	0.038	0.038	0.037	0.038	0.039	0.035
27	0.037	0.036	0.036	0.036	0.036	0.036	0.037	0.037	0.038	0.039	0.039	0.040	0.039	0.039	0.039	0.039	0.039	0.038	0.038	0.038	0.037	0.037	0.037	0.037	0.038	0.040	0.036
28	0.037	0.037	0.036	0.036	0.036	0.036	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.036	0.035	0.035	0.034	0.033	0.033	0.032	0.033	0.032	0.032	0.032	0.035	0.037	0.032
29	0.032	0.031	0.031	0.032	0.032	0.032	0.032	0.033	0.034	0.034	0.035	0.035	0.036	0.036	0.037	0.037	0.037	0.037	0.037	0.038	0.038	0.037	0.037	0.036	0.035	0.038	0.031
30	0.036	0.036	0.035	0.036	0.036	0.036	0.037	0.037	0.038	0.038	0.038	0.038	0.037	0.036	0.035	0.035	0.035	0.034	0.034	0.034	0.035	0.035	0.035	0.035	0.036	0.038	0.034
31	0.035	0.034	0.034	0.034	0.034	0.034	0.034	0.035	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.037	0.037	0.037	0.037	0.037	0.036	0.036	0.037	0.034
Avg	0.034	0.034	0.034	0.034	0.034	0.035	0.035	0.036	0.037	0.037	0.038	0.038	0.038	0.037	0.037	0.037	0.036	0.036	0.035	0.035	0.035	0.035	0.035	0.035	0.036	--	--
Max	0.040	0.041	0.041	0.041	0.040	0.040	0.040	0.040	0.040	0.041	0.042	0.042	0.042	0.042	0.042	0.041	0.041	0.040	0.040	0.040	0.040	0.040	0.040	0.040	--	0.042	--
Min	0.023	0.023	0.023	0.024	0.024	0.024	0.025	0.027	0.028	0.030	0.030	0.031	0.031	0.029	0.028	0.027	0.027	0.025	0.025	0.024	0.023	0.023	0.023	0.023	--	--	0.023

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Oct 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	0.050	0.046	--	0.048	0.048	0.049	0.049	0.039	0.044	0.048	0.048	0.046	0.044	0.042	--	0.043	0.045	0.046	0.045	0.044	0.040	0.041	0.040	0.040	0.045	0.050	0.039
2	0.038	0.038	--	0.038	0.036	0.033	0.033	0.031	0.030	0.030	0.032	0.031	0.031	0.032	0.032	0.035	0.038	0.039	0.037	0.034	0.033	0.030	0.031	0.030	0.034	0.039	0.030
3	0.029	0.029	--	0.027	0.026	0.024	0.024	0.023	0.029	0.033	0.037	0.035	0.036	0.038	0.036	0.034	0.034	0.036	0.037	0.037	0.037	0.036	0.033	0.032	0.032	0.038	0.023
4	0.032	0.032	--	0.029	0.027	0.029	0.028	0.026	0.032	0.037	0.044	0.047	0.049	0.051	0.053	0.055	0.055	0.056	0.053	0.047	0.043	0.042	0.040	0.037	0.041	0.056	0.026
5	0.035	0.034	--	0.035	0.035	0.035	0.036	0.036	0.035	0.035	0.035	0.036	0.037	0.037	0.037	0.037	0.039	0.039	0.038	0.037	0.036	0.037	0.038	0.038	0.036	0.039	0.034
6	0.039	0.037	--	0.038	0.036	0.028	0.036	0.036	0.035	0.036	0.038	0.041	0.042	0.044	0.044	0.045	0.046	0.045	0.043	0.041	0.039	0.039	0.039	0.037	0.039	0.046	0.028
7	0.036	0.035	--	0.036	0.037	0.038	0.037	0.037	0.038	0.039	0.042	0.042	0.043	0.044	0.045	0.045	0.048	0.048	0.049	0.045	0.043	0.043	0.045	0.045	0.042	0.049	0.035
8	0.046	0.045	--	0.042	0.041	0.040	0.041	0.036	0.038	0.044	0.047	0.047	0.044	0.044	0.044	0.044	0.045	0.045	0.044	0.043	0.043	0.042	0.041	0.038	0.043	0.047	0.036
9	0.036	0.035	--	0.031	0.030	0.030	0.030	0.029	0.031	--	--	--	--	--	--	--	--	0.037	0.039	0.038	0.037	0.038	0.038	0.036	--	--	--
10	0.017	0.017	--	0.038	0.039	0.042	0.044	0.039	0.038	0.038	0.038	0.039	0.041	0.045	0.049	0.051	0.050	0.050	0.046	0.040	0.037	0.039	0.039	0.042	0.040	0.051	0.017
11	0.044	0.040	--	0.042	0.041	0.038	0.036	0.033	0.040	0.045	0.049	0.051	0.050	0.052	0.053	0.054	0.055	0.054	0.053	0.047	0.045	0.045	0.044	0.045	0.046	0.055	0.033
12	0.045	0.043	--	0.041	0.039	0.039	0.041	0.042	0.042	0.044	0.045	0.043	0.040	0.040	0.044	0.048	0.049	0.050	0.050	0.050	0.044	0.044	0.043	0.044	0.044	0.050	0.039
13	0.043	0.041	--	0.043	0.043	0.043	0.043	0.041	0.041	0.040	0.038	0.038	0.043	0.048	0.050	0.052	0.052	0.050	0.049	0.046	0.047	0.048	0.048	0.046	0.045	0.052	0.038
14	0.045	0.041	--	0.038	0.038	0.036	0.035	0.032	0.037	0.043	0.046	0.047	0.047	0.049	0.049	0.051	0.054	0.057	0.057	0.058	0.055	0.052	0.051	0.051	0.046	0.058	0.032
15	0.053	0.050	--	0.051	0.051	0.050	0.050	0.047	0.049	0.053	0.055	0.057	0.057	0.056	0.057	0.058	0.058	0.058	0.058	0.058	0.055	0.054	0.052	0.050	0.054	0.058	0.047
16	0.048	0.043	--	0.043	0.044	0.041	0.039	0.038	0.040	0.041	0.043	0.048	0.050	0.051	0.051	0.051	0.052	0.054	0.054	0.053	0.051	0.049	0.048	0.047	0.047	0.054	0.038
17	0.046	0.043	--	0.041	0.039	0.038	0.039	0.037	0.040	0.045	0.046	0.048	0.053	0.055	0.056	0.057	0.057	0.058	0.056	0.052	0.051	0.050	0.051	0.051	0.048	0.058	0.037
18	0.049	0.046	--	0.047	0.045	0.045	0.046	0.044	0.044	--	0.042	0.044	0.044	0.047	0.049	0.051	0.053	0.053	0.052	0.049	0.044	0.040	0.039	0.040	0.046	0.053	0.039
19	0.041	0.039	--	0.040	0.039	0.039	0.039	0.038	0.040	0.040	0.040	0.042	0.044	0.046	0.048	0.049	0.050	0.052	0.051	0.048	0.045	0.044	0.045	0.043	0.044	0.052	0.038
20	0.043	0.041	--	0.041	0.039	0.039	0.038	0.036	0.038	0.044	0.044	0.048	0.048	0.047	0.046	0.047	0.047	0.047	0.046	0.047	0.047	0.044	0.044	0.045	0.044	0.048	0.036
21	0.046	0.041	--	0.043	0.043	0.041	0.041	0.037	0.038	0.043	0.042	0.043	0.045	0.047	0.046	0.045	0.046	0.046	0.046	0.045	0.042	0.042	0.041	0.041	0.043	0.047	0.037
22	0.040	0.037	--	0.041	0.039	0.038	0.035	0.036	0.036	0.036	0.039	0.041	0.043	0.044	0.044	0.045	0.045	0.044	0.043	0.042	0.041	0.041	0.041	0.042	0.041	0.045	0.035
23	0.041	0.038	--	0.041	0.043	0.044	0.044	0.044	0.044	0.045	0.047	0.047	0.047	0.046	0.046	0.047	0.046	0.045	0.043	0.044	0.043	0.041	0.039	0.037	0.044	0.047	0.037
24	0.036	0.037	--	0.035	0.034	0.034	0.035	0.035	0.037	0.038	0.040	0.041	0.044	0.044	0.044	0.047	0.047	0.045	0.045	0.044	0.041	0.038	0.038	0.039	0.040	0.047	0.034
25	0.040	0.039	--	0.042	0.038	0.038	0.035	0.032	0.032	0.037	0.040	0.041	0.041	0.042	0.039	0.038	0.036	0.035	0.035	0.037	0.038	0.034	0.037	0.038	0.038	0.042	0.032
26	0.036	0.034	--	0.037	0.038	0.038	0.035	0.035	0.037	0.037	0.039	0.040	0.041	0.041	0.041	0.042	0.042	0.043	0.044	0.040	0.036	0.034	0.035	0.036	0.038	0.044	0.034
27	0.036	0.033	--	0.035	0.034	0.034	0.034	0.034	0.034	0.036	0.039	0.041	0.042	0.042	0.043	0.044	0.044	0.045	0.047	0.048	0.048	0.045	0.044	0.045	0.040	0.048	0.033
28	0.044	0.042	--	0.044	0.042	0.042	0.042	0.042	0.039	0.038	0.035	0.032	0.032	0.030	0.029	0.030	0.031	0.026	0.022	0.021	0.021	0.020	0.020	0.019	0.032	0.044	0.019
29	0.019	0.018	--	0.019	0.020	0.019	0.019	0.018	0.021	0.022	0.022	0.022	0.023	0.025	0.028	0.031	0.033	0.034	0.035	0.034	0.034	0.033	0.032	0.030	0.026	0.035	0.018
30	0.030	0.028	--	0.032	0.030	0.030	0.031	0.032	0.034	0.035	0.036	0.038	0.040	0.042	--	0.043	0.043	0.042	0.041	0.041	0.040	0.040	0.039	0.039	0.037	0.043	0.028
31	0.039	0.036	--	0.036	0.035	0.034	0.033	0.033	0.036	0.038	0.038	0.040	0.043	0.044	0.045	0.046	0.046	0.045	0.042	0.039	0.039	0.039	0.041	0.039	0.039	0.046	0.033
Avg	0.039	0.037	--	0.038	0.038	0.037	0.037	0.035	0.037	0.039	0.041	0.042	0.043	0.044	0.045	0.045	0.046	0.046	0.045	0.044	0.042	0.041	0.041	0.040	0.041	--	--
Max	0.053	0.050	--	0.051	0.051	0.050	0.050	0.047	0.049	0.053	0.055	0.057	0.057	0.056	0.057	0.058	0.058	0.058	0.058	0.058	0.055	0.054	0.052	0.051	--	0.058	--
Min	0.017	0.017	--	0.019	0.020	0.019	0.019	0.018	0.021	0.022	0.022	0.022	0.023	0.025	0.028	0.030	0.031	0.026	0.022	0.021	0.021	0.020	0.020	0.019	--	--	0.017

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Nov 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	0.039	0.036	--	0.038	0.037	0.037	0.035	0.033	0.034	0.035	0.036	0.037	0.038	0.039	0.041	0.043	0.045	0.044	0.041	0.035	0.034	0.035	0.036	0.038	0.038	0.045	0.033
2	0.037	0.034	--	0.037	0.036	0.035	0.035	0.035	0.036	0.037	0.040	0.041	0.042	0.043	0.043	0.044	0.043	0.042	0.039	0.039	0.040	0.041	0.039	0.041	0.039	0.044	0.034
3	0.038	0.035	--	0.029	0.030	0.026	0.027	0.026	0.026	0.028	0.027	0.029	0.029	0.030	0.030	0.030	0.031	0.032	0.033	0.032	0.031	0.031	0.029	0.031	0.030	0.038	0.026
4	0.032	0.032	0.030	--	0.031	0.028	0.027	0.025	0.025	0.027	0.028	0.029	0.029	0.030	0.031	0.032	0.031	0.031	0.032	0.032	0.033	0.034	0.032	0.032	0.030	0.034	0.025
5	0.027	0.024	0.022	--	0.024	0.026	0.034	0.032	0.029	0.033	0.036	0.037	0.038	0.039	0.040	0.041	0.042	0.042	0.042	0.040	0.036	0.036	0.036	0.036	0.034	0.042	0.022
6	0.035	0.035	0.035	--	0.038	0.039	0.038	0.038	0.039	0.039	0.038	0.038	0.040	0.042	0.042	0.041	0.040	0.039	0.038	0.038	0.039	0.038	0.038	0.038	0.038	0.042	0.035
7	0.037	0.036	0.033	--	0.035	0.034	0.034	0.034	0.033	0.035	0.038	0.040	0.041	0.042	0.042	0.042	0.041	0.040	0.037	0.037	0.036	0.035	0.034	0.033	0.037	0.042	0.033
8	0.033	0.033	0.031	--	0.034	0.034	0.034	0.034	0.033	0.033	0.034	0.036	0.039	0.040	0.040	0.041	0.041	0.039	0.039	0.039	0.037	0.038	0.038	0.037	0.036	0.041	0.031
9	0.038	0.038	0.036	--	0.035	0.033	0.033	0.033	0.034	0.036	0.039	0.040	0.039	0.041	0.040	0.039	0.039	0.039	0.038	0.035	0.034	0.035	0.036	0.037	0.037	0.041	0.033
10	0.036	0.036	0.033	--	0.034	0.033	0.034	0.033	0.032	0.035	0.028	0.034	0.035	0.038	0.039	0.040	0.038	0.037	0.035	0.033	0.032	0.033	0.033	0.033	0.034	0.040	0.028
11	0.032	0.032	0.029	--	0.031	0.030	0.030	0.031	0.033	0.033	0.033	0.035	0.039	0.040	0.039	0.038	0.038	0.037	0.034	0.034	0.035	0.035	0.036	0.036	0.034	0.040	0.029
12	0.037	0.036	0.033	--	0.034	0.035	0.035	0.034	0.034	0.034	0.035	0.038	0.037	0.037	0.037	0.037	0.037	0.037	0.036	0.035	0.035	0.034	0.033	0.033	0.035	0.038	0.033
13	0.032	0.031	0.029	--	0.030	0.030	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.032	0.032	0.032	0.031	0.031	0.031	0.031	0.031	0.030	0.031	0.032	0.029
14	0.029	0.029	0.026	--	0.029	0.030	0.030	0.030	0.030	0.031	0.033	0.036	0.039	0.041	0.043	0.044	0.043	0.043	0.043	0.039	0.038	0.039	0.038	0.039	0.036	0.044	0.026
15	0.038	0.038	0.033	--	0.035	0.033	0.032	0.034	0.038	0.038	0.038	0.039	0.039	0.038	--	0.035	0.034	0.033	0.031	0.029	0.029	0.029	0.030	0.030	0.034	0.039	0.029
16	0.029	0.030	0.028	--	0.031	0.032	0.033	0.033	0.032	0.033	0.034	0.035	0.036	0.037	0.039	0.039	0.039	0.039	0.038	0.038	0.038	0.038	0.036	0.035	0.035	0.039	0.028
17	0.037	0.037	0.034	--	0.031	0.031	0.032	0.033	0.032	0.032	0.032	0.033	0.034	0.035	0.035	0.036	0.035	0.035	0.030	0.030	0.033	0.032	0.034	0.033	0.033	0.037	0.030
18	0.032	0.031	0.029	--	0.030	0.029	0.030	0.031	0.032	0.031	0.031	0.031	0.034	0.035	0.037	0.038	0.038	0.037	0.035	0.032	0.032	0.034	0.035	0.033	0.033	0.038	0.029
19	0.034	0.032	--	0.033	0.032	0.030	0.029	0.027	0.027	0.031	0.034	0.037	0.039	0.037	0.040	0.042	0.043	0.044	0.042	0.042	0.042	0.038	0.037	0.036	0.036	0.044	0.027
20	0.036	0.036	--	0.034	0.031	0.031	0.028	0.029	0.029	0.033	0.035	0.036	0.038	0.039	0.040	0.040	0.041	0.040	0.039	0.039	0.039	0.039	0.038	0.038	0.036	0.041	0.028
21	0.038	0.042	--	0.041	0.040	0.033	0.033	0.032	0.034	0.036	0.036	0.035	0.036	0.036	0.037	0.037	0.037	0.036	0.036	0.033	0.031	0.026	0.028	0.028	0.035	0.042	0.026
22	0.029	0.030	--	0.026	0.024	0.026	0.025	0.024	0.024	0.024	0.030	0.035	0.036	0.037	0.038	0.038	0.036	0.034	0.034	0.033	0.031	0.032	0.030	0.033	0.031	0.038	0.024
23	0.026	0.021	--	0.022	0.021	0.022	0.022	0.022	0.022	0.023	0.022	0.023	0.023	0.023	0.023	0.023	0.023	0.024	0.024	0.025	0.025	0.025	0.024	0.025	0.023	0.026	0.021
24	0.025	0.025	--	0.026	0.026	0.026	0.026	0.026	0.026	0.027	0.027	0.027	0.028	0.028	0.028	0.029	0.028	0.028	0.029	0.029	0.028	0.028	0.027	0.027	0.027	0.029	0.025
25	0.027	0.026	--	0.025	0.025	0.025	0.023	0.020	0.023	0.025	0.026	0.028	0.030	0.031	0.031	0.030	0.030	0.031	0.030	0.029	0.029	0.027	0.028	0.027	0.027	0.031	0.020
26	0.027	0.029	--	0.031	0.031	0.029	0.025	0.025	0.025	0.026	0.028	0.031	0.034	0.036	0.037	0.038	0.039	0.037	0.037	0.038	0.037	0.037	0.036	0.037	0.033	0.039	0.025
27	0.037	0.037	--	0.036	0.036	0.035	0.035	0.035	0.035	0.036	0.036	0.037	--	0.038	0.038	0.038	0.038	0.038	0.037	0.037	0.036	0.036	0.035	0.034	0.036	0.038	0.034
28	0.035	0.035	--	0.035	0.035	0.034	0.034	0.033	0.033	0.034	0.034	0.034	0.035	0.037	0.037	0.037	0.037	0.035	0.034	0.036	0.036	0.035	0.036	0.035	0.035	0.037	0.033
29	0.034	0.033	--	0.032	0.031	0.031	0.032	0.032	0.032	0.031	0.031	0.032	0.035	0.035	0.036	0.037	0.037	0.037	0.035	0.035	0.034	0.034	0.032	0.032	0.033	0.037	0.031
30	0.033	0.033	--	0.032	0.032	0.032	0.031	0.030	0.030	0.030	0.029	0.029	0.029	0.030	0.032	0.031	0.029	0.026	0.028	0.029	0.029	0.030	0.031	0.031	0.030	0.033	0.026
Avg	0.033	0.033	0.031	0.032	0.032	0.031	0.031	0.031	0.031	0.032	0.033	0.034	0.035	0.036	0.037	0.037	0.037	0.036	0.035	0.034	0.034	0.034	0.034	0.034	0.034	--	--
Max	0.039	0.042	0.036	0.041	0.040	0.039	0.038	0.038	0.039	0.039	0.040	0.041	0.042	0.043	0.043	0.044	0.045	0.044	0.043	0.042	0.042	0.041	0.039	0.041	--	0.045	--
Min	0.025	0.021	0.022	0.022	0.021	0.022	0.022	0.020	0.022	0.023	0.022	0.023	0.023	0.023	0.023	0.023	0.023	0.024	0.024	0.025	0.025	0.025	0.024	0.025	--	--	0.020

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Dec 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	0.031	0.027	--	0.024	0.023	0.023	0.023	0.022	0.023	0.025	0.026	0.026	0.028	0.030	0.033	0.035	0.033	0.032	0.031	0.028	0.028	0.029	0.029	0.029	0.028	0.035	0.022
2	0.029	0.029	--	0.028	0.029	0.030	0.029	0.028	0.028	0.029	0.033	0.034	0.035	0.035	0.037	0.037	0.037	0.036	0.035	0.033	0.034	0.035	0.034	0.034	0.033	0.037	0.028
3	0.034	0.037	--	0.034	0.033	0.035	0.035	0.036	0.034	0.034	0.039	0.040	0.040	0.040	0.041	0.041	0.039	0.037	0.037	0.036	0.034	0.032	0.031	0.031	0.036	0.041	0.031
4	0.035	0.037	--	0.034	0.032	0.031	0.036	0.038	0.038	0.038	0.038	0.036	0.037	0.035	0.033	0.035	0.034	0.033	0.034	0.031	0.030	0.029	0.029	0.030	0.034	0.038	0.029
5	0.033	0.037	--	0.040	0.038	0.036	0.034	0.034	0.033	0.032	0.037	0.041	0.042	0.043	0.043	0.042	0.041	0.040	0.036	0.037	0.037	0.037	0.037	0.034	0.037	0.043	0.032
6	0.032	0.034	--	0.041	0.040	0.030	0.032	0.030	0.030	0.036	0.039	0.040	0.041	0.042	0.043	0.043	0.044	0.044	0.042	0.038	0.036	0.036	0.036	0.038	0.038	0.044	0.030
7	0.038	0.038	--	0.037	0.038	0.039	0.040	0.040	0.036	0.036	0.038	0.041	0.042	0.043	0.043	0.043	0.043	0.042	0.041	0.041	0.041	0.041	0.040	0.039	0.040	0.043	0.036
8	0.040	0.039	--	0.038	0.038	0.037	0.037	0.036	0.034	0.035	0.038	0.039	0.040	0.041	0.041	0.042	0.041	0.040	0.040	0.040	0.040	0.037	0.036	0.037	0.039	0.042	0.034
9	0.036	0.031	--	0.025	0.025	0.027	0.027	0.027	0.025	0.034	0.035	0.036	0.038	0.039	0.040	0.040	0.040	0.041	0.039	0.039	0.040	0.041	0.041	0.041	0.035	0.041	0.025
10	0.040	0.040	--	0.040	0.041	0.040	0.040	0.040	0.039	0.038	0.038	0.038	0.040	0.041	0.040	0.039	0.039	0.038	0.038	0.038	0.037	0.037	0.036	0.035	0.039	0.041	0.035
11	0.036	0.036	--	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.034	0.036	0.036	0.037	0.037	0.037	0.035	0.036	0.035	0.034	0.034	0.034	0.033	0.034	0.035	0.037	0.033
12	0.034	0.034	--	0.032	0.031	0.031	0.030	0.031	0.030	0.030	0.030	0.031	0.032	0.033	0.032	--	0.031	0.030	0.029	0.026	0.024	0.024	0.023	0.024	0.030	0.034	0.023
13	0.022	0.024	--	0.022	0.024	0.022	0.024	0.026	0.022	0.027	0.028	0.031	0.034	0.036	0.038	0.040	0.040	0.039	0.039	0.037	0.038	0.035	0.031	0.034	0.031	0.040	0.022
14	0.035	0.034	--	0.032	0.036	0.036	0.035	0.035	0.035	0.035	0.037	0.037	0.038	0.038	0.040	0.040	0.039	0.038	0.038	0.037	0.036	0.036	0.037	0.037	0.037	0.040	0.032
15	0.037	0.036	--	0.036	0.035	0.035	0.035	0.037	0.038	0.038	0.038	0.037	0.039	0.040	0.040	0.039	0.039	0.038	0.037	0.038	0.039	0.039	0.039	0.038	0.038	0.040	0.035
16	0.038	0.038	--	0.036	0.037	0.037	0.036	0.037	0.036	0.036	0.037	0.038	0.040	0.040	0.041	0.040	0.036	0.035	0.035	0.037	0.038	0.037	0.036	0.035	0.037	0.041	0.035
17	0.037	0.037	--	0.038	0.038	0.037	0.036	0.036	0.037	0.037	0.037	0.035	0.036	0.037	0.040	0.041	0.041	0.038	0.038	0.039	0.038	0.036	0.036	0.036	0.037	0.041	0.035
18	0.035	0.035	--	0.035	0.035	0.035	0.034	0.034	0.034	0.034	0.034	0.034	0.035	0.034	0.036	0.037	0.036	0.036	0.034	0.035	0.033	0.034	0.035	0.035	0.035	0.037	0.033
19	0.035	0.035	--	0.039	0.040	0.039	0.039	0.039	0.039	0.039	0.039	0.041	0.041	0.041	0.041	0.041	0.039	0.037	0.037	0.036	0.035	0.037	0.037	0.037	0.038	0.041	0.035
20	0.037	0.035	--	0.033	0.034	0.035	0.036	0.041	0.039	0.038	0.040	0.035	0.037	--	--	0.038	0.037	0.039	0.038	0.036	0.035	0.035	0.034	0.033	0.036	0.041	0.033
21	0.033	0.031	--	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.033	0.033	0.033	0.033	0.034	0.034	0.035	0.036	0.036	0.036	0.035	0.036	0.033	0.033	0.036	0.031
22	0.032	0.031	--	0.032	0.030	0.032	0.031	0.029	0.029	0.034	0.034	0.032	0.032	0.034	0.036	0.038	0.038	0.038	0.037	0.033	0.030	0.029	0.029	0.029	0.033	0.038	0.029
23	0.030	0.028	--	0.029	0.029	0.032	0.034	0.035	0.035	0.034	0.034	0.036	0.039	0.041	0.041	0.041	0.041	0.039	0.037	0.037	0.036	0.034	0.034	0.036	0.035	0.041	0.028
24	0.036	0.035	--	0.036	0.036	0.036	0.036	0.037	0.036	0.037	0.038	0.039	0.039	0.040	0.040	0.041	0.040	0.038	0.036	0.038	0.037	0.037	0.037	0.035	0.037	0.041	0.035
25	0.036	0.038	--	0.043	0.042	0.040	0.043	0.041	0.039	0.038	0.039	0.039	0.039	0.040	0.042	0.042	0.042	0.040	0.038	0.038	0.037	0.037	0.036	0.036	0.039	0.043	0.036
26	0.036	0.036	--	0.036	0.036	0.035	0.035	0.036	0.035	0.035	0.035	0.036	0.039	0.040	0.040	0.041	0.041	0.038	0.038	0.038	0.038	0.038	0.040	0.039	0.037	0.041	0.035
27	0.038	0.037	--	0.037	0.037	0.036	0.036	0.037	0.036	0.036	0.037	--	--	0.039	0.040	0.040	0.041	0.040	0.039	0.039	0.038	0.038	0.038	0.037	0.038	0.041	0.036
28	0.037	0.036	--	0.037	0.037	0.037	0.036	0.037	0.036	0.036	0.036	0.037	0.037	0.039	0.039	0.038	0.036	0.037	0.036	0.031	0.033	0.033	0.032	0.032	0.036	0.039	0.031
29	0.034	0.033	--	0.032	0.032	0.030	0.030	0.031	0.032	0.033	0.033	0.033	0.034	0.034	0.036	0.036	0.037	0.036	0.036	0.037	0.037	0.038	0.038	0.038	0.034	0.038	0.030
30	0.038	0.037	--	0.037	0.036	0.035	0.034	0.035	0.035	0.036	0.037	0.037	0.040	0.040	0.038	0.039	0.038	0.036	0.034	0.031	0.033	0.035	0.036	0.034	0.036	0.040	0.031
31	0.035	0.035	--	0.036	0.035	0.035	0.034	0.033	0.033	0.033	0.034	0.035	0.036	0.038	0.038	0.039	0.037	0.033	0.034	0.035	0.037	0.037	0.036	0.039	0.035	0.039	0.033
Avg	0.035	0.034	--	0.034	0.034	0.034	0.034	0.034	0.034	0.035	0.036	0.036	0.037	0.038	0.039	0.039	0.038	0.037	0.037	0.036	0.036	0.035	0.035	0.035	0.036	--	--
Max	0.040	0.040	--	0.043	0.042	0.040	0.043	0.041	0.039	0.039	0.040	0.041	0.042	0.043	0.043	0.043	0.044	0.044	0.042	0.041	0.041	0.041	0.041	0.041	--	0.044	--
Min	0.022	0.024	--	0.022	0.023	0.022	0.023	0.022	0.022	0.025	0.026	0.026	0.028	0.030	0.032	0.034	0.031	0.030	0.029	0.026	0.024	0.024	0.023	0.024	--	--	0.022

-- 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: 10/04/2013 Time: 7:30 Operator: Rami 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 10-25-13
AUDITED BY KJD DATE 10/4/13

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2 m/s	2.1	2.798
Direction* 10m (deg)	E	65.3	66.81
Ambient Temperature (°C)	21°	20.63	19.33
Relative Humidity (%)	28%	34.01	36.99
Aspirated Temp 2m	21°	20.39	19.14
Aspirated Temp 10m	20°	19.61	19.14
Delta Temperature (°C)	N/A	-0.794	0.003
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	194.175	113.7
Barometric Pressure (mmHg)	N/A	680.99	681.0
Battery Voltage (V)	N/A	12.93	12.65
Time (MST)	N/A	7:33	0730 L.T.
Date	N/A	10/04/2013	10/4/13

7:00 0.525
7:15 ~~[illegible]~~
7:45 0.344
8:00 -1.017
-1.044

7:45 12.92

*Direction wind is from

Comments/Unusual Occurrences or Weather: Stalled evap. pan & tipped precip. gauge. Invalidated precip. at 07:45 hrs L.T. -KJD

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

Site Operator Signature: Rami Ballard

AIR SCIENCES INC.

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

Date: 10/18/2013 Time: 7:31 Operator: Kane BaCland

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 11/15/13

AUDITED BY KJD DATE 11/14/13

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	1 m/s	.77	1.907
Direction* 10m (deg)	E	45.86	48.68
Ambient Temperature (°C)	14°	15.23	16.38
Relative Humidity (%)	25%	25.89	23.29
Aspirated Temp 2m	14°	14.91	15.99
Aspirated Temp 10m	13°	15.58	16.31
Delta Temperature (°C)	N/A	.65	0.318
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	29.53	124.5
Barometric Pressure (mmHg)	N/A	682.78	682.9
Battery Voltage (V)	N/A	12.08	12.68
Time (MST)	N/A	7:33	7:45 L.T.
Date	N/A	10.18.2013	10/18/13

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped precip. gauge.

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

Invalidated precip. at 7:45 L.T. due to site operator maintenance. - KJD

Site Operator Signature: Kane BaCland

AIR SCIENCES INC.

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

Confirmed as 10/30/13 not 10/29/13. -KJD

Date: 10/~~29~~ 30/2013 Time: 12:43 Operator: Kane 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: 11.15.13

AUDITED BY: KJD DATE: 11/14/13

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2 m/s	1.54	3.077
Direction* 10m (deg)		213.58	236.8
Ambient Temperature (°C)	16°	16.67	16.43
Relative Humidity (%)	30%	30.34	31.03
Aspirated Temp 2m	16°	16.05	15.86
Aspirated Temp 10m	15°	15.19	15.16
Delta Temperature (°C)	N/A	-1.14	-0.699
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	733.56	742.0
Barometric Pressure (mmHg)	N/A	682.10	682.1
Battery Voltage (V)	N/A	12.91	12.91
Time (MST)	N/A	12:48	12:45 L.T.
Date	N/A	10/~~29~~ 30/2013	10/30/13

12:15 - 242.9
12:30 - 233.0
13:00 - 233.3
13:15 - 207.7

*Direction wind is from

-KJD

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

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

Invalidated precip. at 12:45 L.T. due to site operator maintenance. -KJD

Site Operator Signature: Kane Ballard

AIR SCIENCES INC.

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

Date: 11/08/2013 Time: 11:49 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.

AIR SCIENCES INC.
DENVER • PORTLAND

RPA — REVIEWED BY — DATE 11-15-13
KJD — AUDITED BY — DATE 11/14/13

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	.9 m/s	.9	1.679
Direction* 10m (deg)	SE	320.34	4.442
Ambient Temperature (°C)	25°	24.6	24.54
Relative Humidity (%)	15%	15.5%	15.4
Aspirated Temp 2m	25°	23.6	24.08
Aspirated Temp 10m	24°	22.9	22.81
Delta Temperature (°C)	N/A	-0.75	-1.274
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	691.501	691.5
Barometric Pressure (mmHg)	N/A	684.63	684.5
Battery Voltage (V)	N/A	12.78	12.79
Time (MST)	N/A	11:34	12:00 L.T.
Date	N/A	11/08/2013	11/8/13

11:30 - 100.6
11:45 - 89.5
12:15 - 315.7
12:30 - 257.7

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped precip. gauge.

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

Invalidated precip. at 12:00 L.T. due to site operator maintenance. -KJD

Site Operator Signature: Karen Ballard

AIR SCIENCES INC.

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

Date: 11/15/2013 Time: 1:23 Operator: Kam 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: KJD DATE: 11/26/13
AUDITED BY: GG. DATE: 11/21/13

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	4m/s	3.4	6.21
Direction* 10m (deg)	SW	171.76	185
Ambient Temperature (°C)	24	23.66	23.5
Relative Humidity (%)	30%	30.22	30.1
Aspirated Temp 2m	24	23.76	23.4
Aspirated Temp 10m	23	22.34	22.2
Delta Temperature (°C)	N/A	-1.24	-1.19
Solar Radiation (w/m²)	Sunny Partly cloudy (Cloudy)	284.37	284
Barometric Pressure (mmHg)	N/A	675.95	676
Battery Voltage (V)	N/A	12.82	12.8
Time (MST)	N/A	1:25	1530 L.T.
Date	N/A	11/15/2013	11/15/2013

*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: Kam Ballard

AIR SCIENCES INC.

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

Date: 11/21/2013 Time: 11:38 Operator: Karen Bollard

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: 11-27-13
AUDITED BY: KJD DATE: 11/26/13

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	3 m/s	3.89	3.35
Direction* 10m (deg)	SW	147.16	160.1
Ambient Temperature (°C)	17°	19.19	19.17
Relative Humidity (%)	35%	34.18	36.19
Aspirated Temp 2m	17°	19.30	19.18
Aspirated Temp 10m	16°	18.03	18.01
Delta Temperature (°C)	N/A	-1.27	-1.173
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	326.95	331.6
Barometric Pressure (mmHg)	N/A	681.43	681.4
Battery Voltage (V)	N/A	12.89	12.89
Time (MST)	N/A	11:40	11:45 L.T.
Date	N/A	11/21/2013	11/21/13

*Direction wind is from

Comments/Unusual Occurrences or Weather: Precipitation gauge was not triggered by site operator. -KJD

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

Site Operator Signature: Karen Bollard

AIR SCIENCES INC.

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

Date: 12/06/2013 Time: 09:47 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.

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 12/10/13
AUDITED BY G.G. DATE 12/09/13

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	1 m/s	1.84 m/s	1.7
Direction* 10m (deg)	200°	160°	126° * G.G.
Ambient Temperature (°C)	5°C	7.02°C	6.36
Relative Humidity (%)	30%	31.4%	55.6%
Aspirated Temp 2m	5°C	6.45	6.05
Aspirated Temp 10m	5.2°C	5.31	4.95
Delta Temperature (°C)	N/A	-1.34	-1.1
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	~~6~~ ?	401 * G.G.
Barometric Pressure (mmHg)	N/A	686.27	686
Battery Voltage (V)	N/A	13.13	15.1
Time (MST)	N/A	0956	09:45
Date	N/A	12/6/13	12/06/13

*Direction wind is from

Comments/Unusual Occurrences or Weather: *GG. - WD more than ±20° due to low WS. Operator didn't put SR from the logger!

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

Site Operator Signature: TWhite

AIR SCIENCES INC.

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

Date: 12/13/13 Time: 09:00 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. ☆2
✓		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.
REVIEWED BY RPA DATE 12/19/13
AUDITED BY GG. DATE 12/13/13

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	2	1.23	1.02	+
Direction* 10m (deg)	200	182.81	118	☆
Ambient Temperature (°C)	18	10.2	10.3	+
Relative Humidity (%)	33	39.87	39	+
Aspirated Temp 2m	18	9.83	9.58	+
Aspirated Temp 10m	17.5	9.32	8.82	+
Delta Temperature (°C)	N/A	?	-0.761	☆ ☆1 G.G.
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	?	228	
Barometric Pressure (mmHg)	N/A	?	686	
Battery Voltage (V)	N/A	?	13.1	
Time (MST)	N/A	?	09:00	
Date	N/A	?	12/13/2013	☆

☆1 Met site check incomplete - missing info! WD's more than 20° due to low WS.

*Direction wind is from

Comments/Unusual Occurrences or Weather: cleaned off bird droppings from Solar panel

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

Site Operator Signature: T White

☆2 - Site operator might have tripped the precip. gauge @ 0930 (12/13/13) and didn't record it. East & West site's were checked. No precip. recorded before & after 0930 hour @ RH of 39° and 45° (East).

AIR SCIENCES INC.

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

Date: 12/19/13 Time: 14:01 Operator: TEW

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.
REVIEWED BY RPA DATE 12-26-13
AUDITED BY GG. DATE 12/23/13

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	10	2.76	5.72	f
Direction* 10m (deg)	225	207.78	215	f
Ambient Temperature (°C)	22	19.02	19.01	f
Relative Humidity (%)	30	16.06	15.8	f
Aspirated Temp 2m	22	18.73	18.9	f
Aspirated Temp 10m	21.5	17.55	17.6	f G.G.
Delta Temperature (°C)	N/A	-1.18	-1.28	f
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	467.56	512	f
Barometric Pressure (mmHg)	N/A	675.96	676	f
Battery Voltage (V)	N/A	12.87	12.9	f
Time (MST)	N/A	1402	1400	f
Date	N/A	12/19/13	12/19/13	f

*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: T. [illegible]

AIR SCIENCES INC.

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

Date: 12/27/13 Time: 10:25 Operator: TEW

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 12-30-13
AUDITED BY CG DATE 12/30/13

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	15	10.24	10.8	+
Direction* 10m (deg)	080	40.41	39.9	+
Ambient Temperature (°C)	17°	15.63	15.4	+
Relative Humidity (%)	23	16.52	16.7	+
Aspirated Temp 2m	17	15.69	15.3	+
Aspirated Temp 10m		14.73	14.7	+
Delta Temperature (°C)	N/A	-0.96	-0.678	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	495.75	483	+
Barometric Pressure (mmHg)	N/A	687.77	688	+
Battery Voltage (V)	N/A	12.94	12.9	+
Time (MST)	N/A	10:28	10:30	+
Date	N/A	12/27/13	12/27/13	+

*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: TEW

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: 10/04/2013 Time: 7:35 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). 9/27 - 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.*

KJD

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.
RPA DENVER • PORTLAND 10-25-13
CHECKED BY: DATE
KJD 10/4/13
DATE

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

KJD

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.*

KJD

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.*

KJD

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: Kami Ballard

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 10/19/2013 Time: 7:34 Operator: Karen 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). 10/11 → count fail Cod
✓		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 11-15-13
REVIEWED BY DATE
KJD 11/14/13
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 Bell

**Fax completed form 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.

Date: 10/30/2013 Time: 12:48 Operator: [signature]

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). 10/29 → Maint.
✓		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 (10/28)

AIR SCIENCES INC.
DENVER • PORTLAND

RPA 11.15.13
REVIEWED BY DATE
KJD 11/14/13
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 (10/28)

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

KJD

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.*

KJD

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: [signature]

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

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: M8712

Firmware:

Calibrator: Delta Cal S/N:

Date of Flow Audit: 10/30/2013

Time of Flow Audit: 12:51

	BAM	STD
Ambient Temperature (AT) °c	15.5	17.6
Berometric Pressure mmHg	679	682.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0.667	15.17	-0.461
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0.000	18.61	-1.128
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0.000	16.84	-0.831
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	.2	**Should be < 1.0 LPM**

AIR SCIENCES INC.
DENVER • PORTLAND

RAA	11.15.13
REVIEWED BY	DATE
KJD	11/14/13
AUDITED BY	DATE

Comments/Abnormalities: Ran Self Test → "PASSED"

Signature: Kami BeOac

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.

Date: 11/08/2013 Time: 11:57 Operator: Kam 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). 10/30/2013 → Maint.
✓		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 11/15/13
REVIEWED BY DATE

KJD 11/14/13
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: Kam Ballard

**Fax completed form 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: 11/18/2013 Time: 1:28 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). 11/09/13 → 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
11/26/13 KJD
REVIEWED BY DATE
GG- 11/21/13
ENTERED 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: Kan Ba

**Fax completed form 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.

Date: 11/21/2013 Time: 11:38 Operator: Kami Bollard

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). 11/09 → 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 — DATE 11/27/13
KJD — AUDITED BY — DATE 11/26/13

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: Kami Bo Cl

**Fax completed form 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.

Date: 12/06/2013 Time: 0958 Operator: Tom White

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). 12/6 09:58: 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	G.G.	
	✓	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.
RPA 12/10/13
REVIEWED BY DATE
EDITED BY G.G. DATE 12/09/13

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	G.G.	
	✓	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	G.G.	
	✓	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	G.G.	
	✓	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: "Status: 10 Count"

Signature: T White

**Fax completed form 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.

Date: 12/13/13 Time: 09:10 Operator: Tom White

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). 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	GG.	
	✓		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.
REVIEWED BY RPA DATE 12/19/13
AUDITED BY GG. DATE 12/13/13

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	GG.	
	✓		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	GG.	
	✓		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	GG.	
	✓		1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓		2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: Good

Signature: Tom White

**Fax completed form 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: 12/19/13 Time: 14:05 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.*

G.G.

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
REVIEWED BY RPA DATE 12-26-13
AUDITED BY G.G. DATE 12/23/13

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

G.G.

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.*

G.G.

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.*

G.G.

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

G.G.

**Comments/Unusual Occurrences: updated Clock *

* BAM went into maintenance (Error) for the 15:00 hour - invalidated by DASS due to the above procedure.

Signature: TEW

**Fax completed form 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.

Date: 12/27/13 Time: 10:32 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). BAM Cal Mem
✓		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
REVIEWED BY RPA DATE 12-30-13
AUDITED BY G.G. DATE 12/30/13

G.G. 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.*

G.G.

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.*

G.G.

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:

G.G. 12/27/13 11:00 hrs. concentrations invalidated by DASS due to maintenance

Signature: Tom White, Resolution

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

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

West Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

AIR SCIENCES INC.

REVIEWED BY RPA DATE 12/30/13

AUDITED BY GG DATE 12/30/13

Met One BAM 1020 PM_{10}: S/N: M8712

Firmware:

Calibrator: S/N: 1034 Exp. 8/2014

Date of Flow Audit: 12/27/13

Time of Flow Audit: 10:36

	BAM	STD
Ambient Temperature (AT) °c	15.5	16.3
Berometric Pressure mmHg	691	688

6.6 6.6

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0	15.15	-0.99
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0	18.64	-1.29
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0	16.93	-1.36
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	0.0	**Should be < 1.0 LPM**

Comments/Abnormalities:

Signature:

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: 10/04/2013 Time: 7:37 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). 9/27 – 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		
	✓	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: 10·25·13
SUBMITTED BY: KJD DATE: 10/4/13

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		
	✓	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: 10/08/2013 Time: 11:54 Operator: Karen B. Cl[illegible]

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). BAM Cal Membrane 5% 10/30 → 11/08
✓		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 11/15/13
REVIEWED BY DATE
KJD 11/14/13
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: * WEEKLY CHECK CONDUCTED BY K. BALLARD – RPA

*

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.

Date: 10/18/2013 Time: 7:35 Operator: Karen Bellard

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). 10/06 → 10/18 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	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: 11-15-13
AUDITED BY: KJD DATE: 11/14/13

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	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 Bellard

**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.

Date: 10/30/2013 Time: 12:55 Operator: Kane BaClark

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). 10/28 → 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 (10/29)

AIR SCIENCES INC.
DENVER • PORTLAND

RPA — 11-15-13
REVIEWED BY — DATE
KJD — 11/14/13
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 (10/29)
✓		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 BaClark

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

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY JR DATE 11/19/13
AUDITED BY RPA DATE 11-13-13

AIR SCIENCES INC.

Monthly Flow Verification $PM_{2.5}$

West Plant
PARTICULATE MONITORING PROJECT
PROJECT NO. 262-1

Met One BAM 1020 $PM_{2.5}$: S/N: M6466
Firmware:
Calibrator: Delta Cal S/N: 1034

Date of Flow Audit: 9:45
Time of Flow Audit: 10/31/2013

	BAM	STD
Ambient Temperature (AT) °c	14.9	14.8
Berometric Pressure mmHg	657	655.0

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.1	0.7	15.68	-3.7
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.3	-0.5	19.05	-3.9
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.9	1.2	17.56	-3.2
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"
* % DIFF CLOSE TO UPPER THRESHOLD - RPA

Signature: Ryan Bellina

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.

Date: 11/15/2013 Time: 1:59 Operator: Karen 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). 11/1 to 11/16 → 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.*

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 KJD DATE 11/26/13
AUDITED BY GG DATE 11/21/13

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: Karen 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: 11/21/2013 Time: 11:34 Operator: Kathy Bolland

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). 11/17 → 11/21 BAM Cal Membrane 5%... again
✓		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	11/27/13
REVIEWED BY	DATE
KJD	11/26/13
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	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 Bolland

**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.

Date: 12/06/2013 Time: 09:55 Operator: Tom White

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). 12/06 08:53: BAM Cal 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.*

YES	NO		
	✓	1. Inlet Flow check Performed	G.G.
	✓	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 12/10/13
AUDITED BY G.G. DATE 12/09/13

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	G.G.
	✓	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)	G.G.
	✓	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)	G.G.
	✓	2. Inlet system cleaned (*Work performed by Air Sciences)	

**Comments/Unusual Occurrences: "Status: 13 count"

Signature: T White

**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.

Date: 12/13/13 Time: 09:05 Operator: Tom White

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). BAM Cal Ambient 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) ✱ 12/13 01:00: Tape break every hour past: Tape Tension

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

G.G.

AIR SCIENCES INC.
RPA 12/19/13
REVIEWED BY DATE
AUDITED BY G.G. DATE 12/13/13

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

G.G.

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)

G.G.

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)

G.G.

**Comments/Unusual Occurrences: Tape Tension message found on PM 2.5. Opened door, ~~[illegible]~~ latched pinch roller and then unlatched pinch roller, ✱ tightened plastic reel cover on the right, Voila! Ran Self-test and everything is all good.

✱ Invalidated automatically by DASS. (G.G.)

Signature: T. White

**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.

Date: 12/19/13 Time: 14:02 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). BAM Cal Mem. 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 6.6.

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 12-26-13
AUDITED BY 6.6. DATE 12/23/13

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 6.6.

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 6.6.

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 6.6.

YES	NO	
	✓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2. Inlet system cleaned (*Work performed by Air Sciences) * 6.6.

**Comments/Unusual Occurrences: updated clock

* Maintenance Error for the 15:00 hour due to the above procedure (invalidated by DASS)

Signature: [illegible]

**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: 12/27/13 Time: 10:29 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). BAM Cal Mem. 12/23-12/27
✓		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
REVIEWED BY RPA DATE 12-30-13
AUDITED BY G.G. DATE 12/30/13

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

G.G.

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.*

G.G.

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.*

G.G.

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: Self-test passed *

G.G. * 12/27/13 @ 11:00hrs concentrations invalidated by DASS due to maintenance

Signature: TEW
Tom White

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

AIR SCIENCES INC.

Monthly Flow Verification $PM_{2.5}$

West Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

Met One BAM 1020 $PM_{2.5}$: S/N: M8133

Firmware:

Calibrator: S/N: 1034 Exp. 8/2014

Date of Flow Audit: Delta Cal 12/27/13 10:31

Time of Flow Audit:

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY: RPA DATE: 12/30/13

AUDITED BY: G.G. DATE: 12/30/13

	BAM	STD
Ambient Temperature (AT) °c	16.0	16.3
Berometric Pressure mmHg	689	688

G.G. G.G.

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0	15.26	-1.70
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.40	0	18.93	-2.80
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0	17.07	-2.17
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	0.2	**Should be < 1.0 LPM**

Comments/Abnormalities:

Signature: [illegible]

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

Appendix H: East Plant Meteorological Site Check Forms

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY WR DATE 10/8/13
AUDITED BY RDA DATE 10-7-13

AIR SCIENCES INC.

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

Date: 10/4/2013 Time: 9:17am 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.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	1	2.3	1.49 ✓
Direction* 10m (deg)	~~NE~~ SW	196°	182.0 ✓
Ambient Temperature (°C)	21	21.7	21.5 ✓
Relative Humidity (%)	20	28.4	28.9 ✓
Aspirated Temp 2m	21	20.25	20.3 ✓
Aspirated Temp 10m	20	19.30	19.3 ✓
Delta Temperature (°C)	N/A	-1.01	-0.979 ✓
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	636.5	633 ✓
Barometric Pressure (mmHg)	N/A	652.5	653 ✓
Battery Voltage (V)	N/A	12.79	12.8 ✓
Time (MST)	N/A	9:24	0930 ✓
Date	N/A	10/4/2013	10-4-13 ✓

*Direction wind is from

Comments/Unusual Occurrences or Weather: Refilled evap pan

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

Site Operator Signature: T White

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY WR DATE 10/25/13
AUDITED BY RPA DATE 10-21-13

AIR SCIENCES INC.

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

Date: 10/11/13 Time: 0815 Operator: TEW

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	2.71	2.35
Direction* 10m (deg)	90°	72	61.7
Ambient Temperature (°C)	55°F	12°C	12.6
Relative Humidity (%)	30%	44	44.3
Aspirated Temp 2m	53°F	11.82°C	11.9
Aspirated Temp 10m	54°F	11.2°C	11.2
Delta Temperature (°C)	N/A	-0.61	-0.682
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	443.72	435
Barometric Pressure (mmHg)	N/A	652.79	653
Battery Voltage (V)	N/A	12.98	13.0
Time (MST)	N/A	0824	0830
Date	N/A	10/11/2013	10-11-13

*Direction wind is from

Comments/Unusual Occurrences or Weather: Monitor for evap pan inside pan and turned over. Took it out, drained it and then put it back in the way it was.

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

* DID NOT CHECK THE FLOAT SYSTEM INSIDE EVAP GAUGE-RPA

Site Operator Signature: TEW

AIR SCIENCES INC.

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

Date: 10/18/2013 Time: 8:25 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 • PORTLAND
WR 10/25/13
REVIEWED BY RPA DATE ~~10-21-13~~
AUDITED BY DATE 10-21-13

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	5 m/s	4.4	3.79
Direction* 10m (deg)	E	59.68	43.4
Ambient Temperature (°C)	16°	16.58	16.4
Relative Humidity (%)	25%	22.76	23.6
Aspirated Temp 2m	16°	16.13	15.9
Aspirated Temp 10m	15°	15.48	15.2
Delta Temperature (°C)	N/A	-.69	-0.671
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	448.44	405 @0845 = 459
Barometric Pressure (mmHg)	N/A	653.47	654
Battery Voltage (V)	N/A	12.91	12.9
Time (MST)	N/A	8:34	0830 HRS
Date	N/A	10/18/2013	10-18-13

*Direction wind is from

Comments/Unusual Occurrences or Weather: Float chain disconnected in evap. gauge Chain replaced & evap. gauge calibrated.

When form is completed, please fax to Air Sciences Inc. @ 303-279-3796 (no cover sheet is necessary). EVAP DATA — GAUGE MALFUNCTION 10-9-13 @2200 HR THRU 10-18-13 @0900 HRS INVALID — RPA

Site Operator Signature: Tami Ballard

AIR SCIENCES INC.

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

Date: 10/23/2013 Time: 1:29 Operator: Kara BaCland

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 JR DATE 11/19/13
AUDITED BY RPA DATE 11-13-13

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	5 m/s	4.14	3.36
Direction* 10m (deg)	E	98.07	130.0
Ambient Temperature (°C)	26°	27.69	26.7
Relative Humidity (%)	15%	10.41	11.1
Aspirated Temp 2m	26°	27.29	26.5
Aspirated Temp 10m	25°	26.13	25.1
Delta Temperature (°C)	N/A	-1.03	-1.42
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	709.45	725
Barometric Pressure (mmHg)	N/A	652.36	652
Battery Voltage (V)	N/A	12.72	12.7
Time (MST)	N/A	1:32	13:30 MST
Date	N/A	10/23/2013	10/23/2013

1300 — 103.0
1315 — 104.0
1345 — 132.0
1400 — 113.0

*Direction wind is from

Comments/Unusual Occurrences or Weather: 2 SEC SCAN Logger VALUE VS 15 min AVE NOT +/- 20°; VALUES POINTS x² ABOVE/BELOW ARE. — RPA

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

Site Operator Signature: Kara BaCland

AIR SCIENCES INC.

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

Date: 10/30/2013 Time: 1:57 Operator: Kame 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.

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY JR DATE 11/19/13
AUDITED BY RPA DATE 11·13·13

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	4mph	4.3	3.55
Direction* 10m (deg)		181.60	199.0
Ambient Temperature (°C)	13°	13.83	13.9
Relative Humidity (%)	30%	30.89	30.1
Aspirated Temp 2m	13°	13.88	13.7
Aspirated Temp 10m	12°	12.51	12.5
Delta Temperature (°C)	N/A	-1.20	-1.25
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	631.84	648
Barometric Pressure (mmHg)	N/A	651.48	652
Battery Voltage (V)	N/A	12.92	12.9
Time (MST)	N/A	1:59	1400 HRS
Date	N/A	10/30/2013	10·30·2013

*Direction wind is from

Comments/Unusual Occurrences or Weather: Evap. Sensor knocked over in tank. Set it upright again. Filled evap pan. * TOTAL EVAP DATA INVALIDATED – RPA

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

Site Operator Signature: Kame Bellard

AIR SCIENCES INC.

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

Date: 11/18/2013 Time: 1:27 Operator: Karen 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.

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY JR DATE 11/18/13

AUDITED BY RPA DATE 11·13·13

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	5 m/s	4.24	2.86
Direction* 10m (deg)	W	311.65	* 240.0
Ambient Temperature (°C)	24°	22.12	22.3
Relative Humidity (%)	20%	19.1	18.0
Aspirated Temp 2m	24°	21.58	21.3
Aspirated Temp 10m	23°	20.63	20.5
Delta Temperature (°C)	N/A	-0.98	-0.808
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	643.97	655
Barometric Pressure (mmHg)	N/A	654.09	654.0
Battery Voltage (V)	N/A	12.77	12.8
Time (MST)	N/A	1:28	1330 HRS LT
Date	N/A	11/08/2013	11·8·2013

1300 – 197.0
1315 – 202.0
1345 – 249.0
1400 – 120.0

*Direction wind is from

Comments/Unusual Occurrences or Weather: * WD IS NOT +/- 20° OF 15min AVE Audit VS 2ND LOGGER SCAN – ACTION PLAN CONTINUE TO MONITOR – RPA

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

Site Operator Signature: Karen Bell

AIR SCIENCES INC.

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

Date: 11/15/2013 Time: 1:50 Operator: Kane 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.

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY JR DATE 11/18/13

AUDITED BY 11-18-13 RPA DATE

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	4 m/s	3.58	3.93
Direction* 10m (deg)	SW	226.59	189.4 *
Ambient Temperature (°C)	21°	19.67	19.42
Relative Humidity (%)	30%	35%	35.9
Aspirated Temp 2m	21°	19.24	19.2
Aspirated Temp 10m	20°	18.53	18.44
Delta Temperature (°C)	N/A	-0.86	-0.73
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	322.44	409.4
Barometric Pressure (mmHg)	N/A	646.32	646.3
Battery Voltage (V)	N/A	12.81	12.81
Time (MST)	N/A	1:52	1400 Hrs AVE
Date	N/A	11/15/2013	11-15-2013

* 202.6, 199.1, 181.4, 203.2

*Direction wind is from

Comments/Unusual Occurrences or Weather: Refilled evap pan * EVAP SYSTEM DID NOT SHOW % IN VOLUME
* 2 SEC SCAN VALVE VS 15 MIN AVERAGE FOR WD OUTSIDE +/- 20° - RPA

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

Site Operator Signature: Kane Bell

AIR SCIENCES INC.

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

Date: 11/21/2013 Time: 10:54 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
REVIEWED BY: WR DATE: 12-10-13
AUDITED BY: RPA DATE: 11-26-13

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2 m/s	2.41	3.626
Direction* 10m (deg)	SE	194.95	190.8
Ambient Temperature (°C)	16°	14.83	14.92
Relative Humidity (%)	40%	48.20	47.95
Aspirated Temp 2m	16°	14.14	14.74
Aspirated Temp 10m	15°	14.19	13.98
Delta Temperature (°C)	N/A	-0.04	-0.76
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	444.48	374.5
Barometric Pressure (mmHg)	N/A	651.61	651.6
Battery Voltage (V)	N/A	12.87	12.88
Time (MST)	N/A	10:57	1100 thru 15min ave.
Date	N/A	11/21/2013	11-21-13

*Direction wind is from

Comments/Unusual Occurrences or Weather: Reset chain & calibrated evap. gugge.

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.

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

Date: 11/26/2013 Time: 1437 Operator: TEL
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.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	30	7.62	8.55
Direction* 10m (deg)	20°	36.02°	35.41
Ambient Temperature (°C)	55°F	12.09°c	11.94
Relative Humidity (%)	10%	38.2	38.33
Aspirated Temp 2m	55°F	12.04°c	11.88
Aspirated Temp 10m	54°F	11.46°c	11.33
Delta Temperature (°C)	N/A	-0.59°c	-0.545
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	437.16	449.1
Barometric Pressure (mmHg)	N/A	656.47	656.5
Battery Voltage (V)	N/A	12.94	12.95
Time (MST)	N/A	1442	1445 HRS
Date	N/A	11/26/2013	11·26·13

*Direction wind is from

Comments/Unusual Occurrences or Weather: Sunny and clear

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

Site Operator Signature: TL

- Tom White of Resolution is being trained on Site operator tasks.
- Invalidated 0.008" OF PRECIP RECORDED BY THE SITE OPERATOR.

RPA

AIR SCIENCES INC.
DENVER • PORTLAND

WR 12-10-13

REVIEWED BY RPA DATE 11-26-13
AUDITED BY DATE

AIR SCIENCES INC.

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

Date: 12/06/2013 Time: 09:10 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.

AIR SCIENCES INC.
REVIEWED BY RPA DATE 12/10/13
AUDITED BY GG. DATE 12/09/13

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	10 m/s	0.51 m/s	1.14
Direction* 10m (deg)	90°	86.41°	83.3
Ambient Temperature (°C)	1°C	2.42°C	2.44
Relative Humidity (%)	20%	42.63%	43.5
Aspirated Temp 2m	1°C	0°C	1.15
Aspirated Temp 10m	0°C	0.82°C	0.521
Delta Temperature (°C)	N/A	-0.645	-0.628
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	403.88	375
Barometric Pressure (mmHg)	N/A	654.32	654
Battery Voltage (V)	N/A	13.21	13.2
Time (MST)	N/A	09:16	09:15
Date	N/A	12/06/2013	12/06/2013

*Direction wind is from

Comments/Unusual Occurrences or Weather: Noted bird perched on temp shield

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

Site Operator Signature: T White

AIR SCIENCES INC.

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

Date: 12/12/2013 Time: 13:45 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.

AIR SCIENCES INC.
REVIEWED BY RPA DATE 12/19/13
AUDITED BY GG DATE 12/13/13

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	5	3.27	4.98	+
Direction* 10m (deg)	040	041	40.3	+
Ambient Temperature (°C)	20	14.32	14.8	+
Relative Humidity (%)	30%	36.91	34.7	+
Aspirated Temp 2m	20	14.26	14.7	+
Aspirated Temp 10m	19.5	13.39	13.6	+
Delta Temperature (°C)	N/A	-0.91	-1.16	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	553.81	516	+
Barometric Pressure (mmHg)	N/A	654.67	655	+
Battery Voltage (V)	N/A	12.87	12.9	+
Time (MST)	N/A	13:51	13:45	+
Date	N/A	12/12/13	12/12/13	+

*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: T White

AIR SCIENCES INC.

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

Date: 12/19/2013 Time: 13:14 Operator: TEW

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 12-26-13

AUDITED BY GG DATE 12/23/13

Parameter	Estimated ~~1.5~~	Logger	Audit
Speed 10m (m/s)	~~100~~ 1.5	6.86	4.01
Direction* 10m (deg)	100	157	157
Ambient Temperature (°C)	18	15.01	15
Relative Humidity (%)	30%	20.51	21.1
Aspirated Temp 2m	18	14.62	14.6
Aspirated Temp 10m	17.6	13.61	13.6
Delta Temperature (°C)	N/A	-1.00	-0.987
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	620.14	606
Barometric Pressure (mmHg)	N/A	646.30	646
Battery Voltage (V)	N/A	12.91	12.9
Time (MST)	N/A	13:16	1315
Date	N/A	12/19/13	12/19/13

*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: TEW

AIR SCIENCES INC.

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

Date: 12/27/13 Time: 11:10 Operator: TEW

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. * GG
✓		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.
REVIEWED BY RPA DATE 12/30/13
AUDITED BY G.G. DATE 12/30/13

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	8	10.24	8.74	+
Direction* 10m (deg)	35	52.96	35.3	+
Ambient Temperature (°C)	16	11.4	11.5	+
Relative Humidity (%)	20	25.36	25.5	+
Aspirated Temp 2m	16	11.35	11.4	+
Aspirated Temp 10m	15.5	10.70	10.7	+
Delta Temperature (°C)	N/A	-0.65	-0.737	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	607.62	604	+
Barometric Pressure (mmHg)	N/A	657.49	657	+
Battery Voltage (V)	N/A	12.96	13	+
Time (MST)	N/A	11:11	11:15	+
Date	N/A	12/27/13	12/27/13	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: G.G. * 12/27/13 @ 11:15hr. precip gauge might've been tipped by Site Operator - reading 0.043. Both sites checked - no precip

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

recorded @ RH 25.5° EAST, 15.6° WEST.

Site Operator Signature: Tom White

Invalidated! ✓ RPA

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: 10/4/2013 Time: 9:24 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). Power fail at 05:45 9/30/2013
✓		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.*

RPA

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

WR	10/8/13
REVIEWED BY	DATE
RPA	10-7-13
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.*

RPA

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.*

RPA

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.*

RPA

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: TWS

EAST PLANT

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

AIR SCIENCES INC.

Date: 10/11/2012 Time: 0829 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). 10/9 Tape Latch
✓		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 WR DATE 10/25/13
AUDITED BY RPA DATE 10-21-13

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: _____

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 10/18/2013 Time: 8:37 Operator: Kami 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). 10/09 → Tape Latch
✓		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.*

RPA

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
REVIEWED BY WR DATE 10/25/13
AUDITED BY RPA DATE 10-21-13

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

RPA

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.*

RPA

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.*

RPA

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. Ballard

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 10/30/2013 Time: 14:02 Operator: Karen Bolle a

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). 10/09 → Tape Latch
✓		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

10/31

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY JR DATE 11/19/13
AUDITED BY RPA DATE 11·13·13

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 – 10/31

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: Karen Bolle a

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

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY: JR DATE: 11/19/13
AUDITED BY: RPA DATE: 11-13-13

AIR SCIENCES INC.

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: 1034

Date of Flow Audit: 10/31/2013
Time of Flow Audit: 9:41

	BAM	STD	Cal
Ambient Temperature (AT) °c	13.5	15.1	14.8 *
Berometric Pressure mmHg	663	655	655.5

RPA

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0.0	15.34	-2.2
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.3	-0.5	18.78	-2.6
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.8	0.6	17.01	-1.2
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

RPA

RPA

RPA

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" ✓

* BP IS DRIFTING - POTENTIAL SAMPLER BP SENSOR ISSUE - CONSULT WITH MET ONE WILL BE CONDUCTED FOR CORRECTIVE ACTIONS - RPA

Signature: [illegible]

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 11/08/2013 Time: 1:32 Operator: Kam 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). 10/30 → 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.*

RPA

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

REVIEWED BY JR DATE 11/19/13
AUDITED BY RPA DATE 11-13-13

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

RPA

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.*

RPA

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.*

RPA

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: 10-31-13 = MONTHLY FLOW VERIFICATION, 1000 HRS CONCENTRATION IS INVALID. —RPA

Signature: Kam BaClard

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 11/15/2013 Time: 1:48 Operator: Karen 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). 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.*

RPA

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

REVIEWED BY: JR DATE: 11/18/13
AUDITED BY: RPA DATE: 11-18-13

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

RPA

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.*

RPA

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.*

RPA

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: Karen Bell

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 11/21/2013 Time: 11:01 Operator: Karen Baldd

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). 10/31 → Delta Pressure
✓		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.*

RPA

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

REVIEWED BY WR DATE 12-10-13
AUDITED BY RPA DATE 11-26-13

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

RPA

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.*

RPA

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.*

RPA

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: Karen Baldd

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 11/26/2013 Time: 1446 Operator: TEW
Tom White

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). 10/31 delta pressure
✓		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.*

RPA

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.*

RPA

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: TW

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

– HOURLY CONCENTRATIONS FOR 1500 THRU 1600 HRS INVALIDATED DUE TO MAINT., AND MONTHLY FLOW VERIFICATIONS. –RPA

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY WR DATE 12-10-13
AUDITED BY RPA DATE 11-26-13

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

East Plant
PARTICULATE MONITORING PROJECT
PROJECT NO. 262-1

Met One PM_{10} S/N: M 8714
Firmware:
Calibrator: Bdtx Cal S/N: 1034

Date of Flow Audit: 11/26/2013
Time of Flow Audit: 1480

	BAM	STD
Ambient Temperature (AT) °c	13.6	13.6
Berometric Pressure mmHg	664	656.5 *

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)	
(1) Actual Flow	15	15.1	0.7	15.53	-2.8	RPA
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*	
(2) Actual Flow	18.4	18.4	0.0	19.05	-3.4	RPA
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*	
(3) Actual Flow	16.7	16.7	0.0	17.17	-2.2	RPA
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	~~[illegible]~~ 0.3

Should be < 1.0 LPM

Comments/Abnormalities: Self test Passed

Signature: Tom White

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

Tom White = BACK-UP SITE OPERATOR IN TRAINING

- INVALIDATED 1500 THRU 1600 HRS DUE TO MAINT.
- BP AND 18.4 SET POINT NOTED, MONITOR DUE FOR CALIBRATION IN DECEMBER 2013.

RPA

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY WR DATE 12-10-13
AUDITED BY RPA DATE 11-26-13

EAST PLANT

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

AIR SCIENCES INC.

Date: 12/06/2013 Time: 09:18 Operator: TEL

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). 11/26 20:24: Reference withdraw 11/26 14:56: 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.*

G.G.

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.
RPA 12/10/13
REVIEWED BY DATE
AUDITED BY G.G. DATE 12/09/13

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

G.G.

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.*

G.G.

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.*

G.G.

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: Lookin' good

Signature: [signature]

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 12/12/13 Time: 13:58 Operator: Tom White

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). 11/26 1454: 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.*

GG-

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.
REVIEWED BY RPA DATE 12/19/13
AUDITED BY GG- DATE 12/13/13

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.*

GG-

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.*

GG-

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: Changed Filter Tape *

* 12/12/2013 15:00 shows conc/tape/flow error – invalidated by DASS (GG)

Signature: [signature]

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 12/19/13 Time: 13:29 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). Nothing recent
✓		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	G.G.	
	✓		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 12-26-13
AUDITED BY G.G. DATE 12/23/13

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	G.G.	
	✓		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	G.G.	
	✓		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	G.G.	
	✓		1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓		2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: updated clock * G.G.

* Maintenance error for the 14:00 hour due to the above procedure (invalidated by DASS)

Signature: [signature]

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 12/27/13 Time: 11:22 Operator: TEW

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 12/30/13
AUDITED BY GG. DATE 12/30/13

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). 12/20 14:17 Power Fail #2
✓		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.*

G.G.

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.*

#1

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.*

G.G.

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.*

G.G.

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: #1 Self test passed

G.G. #1 12/27/13 12:00hrs. concentration invalidated due to maintenance.

#2 12/20/13 14:00 to 15:00 concentration invalidated due to power outage. ✓ RPA

Signature: Tom White

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

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

East Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

AIR SCIENCES INC.

REVIEWED BY RPA DATE 12/30/13

AUDITED BY G.G. DATE 12/30/13

Met One PM_{10}: S/N: M 8714

Firmware:

Calibrator: Delta Cal S/N: 1034 Exp. 8/2014

Date of Flow Audit: 12/27/2013

Time of Flow Audit: 11:40

	BAM	STD
Ambient Temperature (AT) °c	12.3	12.5
Berometric Pressure mmHg	651	657

G.G. G.G.

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0	15.15	-0.99
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0	18.67	-1.45
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0	16.83	-0.77
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 Bac

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.

Date: 10/4/2013 Time: 9:26 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). little low
✓		6. Error log was checked (F3), and errors followed up on (see manual). 9/30-10/4 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: WR	DATE: 10/8/13
AUDITED BY: RPA	DATE: 10-9-13

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: _____

**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: 10/11/2013 Time: 0832 Operator: TEN

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). 10/10 BAM Cal Membrane 5% (1858) (2058)
✓		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) 10/9 1430 - Maintenance - 2 messages at 1430

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

RPA

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

WR 10/25/13
REVIEWED BY RPA DATE ~~10-21-31~~
AUDITED BY DATE 10-21-13

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

RPA

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.*

RPA

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.*

RPA

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: T Lee

**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: 10/18/2013 Time: 8:52 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). 10-14 → 10/18 → BAM CAL Membrane 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.*

RPA

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	WR	DATE	10/25/13
AUDITED BY	RPA	DATE	10-21-13

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

RPA

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.*

RPA

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.*

RPA

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: Kane 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: 10/23/2013 Time: 1:36 Operator: Kam BaCOd

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). 10/19 – 10/23 → 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

JR — REVIEWED BY — DATE 11/19/13
RPA — AUDITED BY — DATE 11-13-13

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: Kam BaCOd

**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: 10/30/2013 Time: 14:05 Operator: Kam 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). 10/26–10/30 → BAM Cal 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

10/31

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY JR DATE 11/19/13

AUDITED BY RPA DATE 11.13.13

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 – 10/31

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 Ballard

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

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: M 8133

Firmware:

Calibrator: Delta Cal S/N:

Date of Flow Audit: 10/30/2013

Time of Flow Audit: 13:05

	BAM	STD
Ambient Temperature (AT) °c	20.0	18.6
Berometric Pressure mmHg	685	682.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0.000	15.25	-1.639
Acceptable		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	
Differential					*+/- 5%*
(2) Actual Flow	18.4	18.4	0.000	18.85	-2.387
Acceptable		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	
Differential					*+/- 5%*
(3) Actual Flow	16.7	16.7	0.000	17.01	-1.822
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	.2

Should be < 1.0 LPM

AIR SCIENCES INC.

DENVER - PORTLAND

RPA 11/14/13

REVIEWED BY DATE

KJD 11/14/13

AUDITED BY DATE

Comments/Abnormalities: Ran Self Test — "PASSED"

Signature: [signature]

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.

Date: 11/08/2013 Time: 1:35 Operator: Ken Bace

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). 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 JR DATE 11/19/13
AUDITED BY RPA DATE 11-13-13

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: _____

Signature: Ken B

**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: 11/15/2013 Time: 1:53 Operator: Kami 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). 11/11 – 11/15 → 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.*

RPA

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 JR RPA DATE 11/18/13
AUDITED BY DATE 11-18-13

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

RPA

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.*

RPA

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.*

RPA

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: INVALIDATED THE 1400 HRS CONC & FLOW DUE TO A COUNT ERROR ON 11-15-13 – RPA – ERROR POPULATED DURING SITE VISIT. - RPA

Signature: Kami Bell

**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: 11/21/2013 Time: 11:03 Operator: Kami BaCCol

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). 11/17-11/21 → 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.*

RPA

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 WR DATE 12-10-13
AUDITED BY RPA DATE 12-26-13

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

RPA

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.*

RPA

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.*

RPA

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: Kami BaCCol

**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: 11/26/2013 Time: 14:50 Operator: Kam 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). 11/22-11/26 → 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

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.*

RPA

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.*

RPA

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: Kam Bell

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

– HOURLY CONCENTRATION FOR 1600 HRS ON 11-26-13 INVALIDATED DUE TO MONTHLY FLOW VERIFICATIONS.

RPA

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY: WR DATE: 12-10-13

AUDITED BY: RPA DATE: 11-26-13

AIR SCIENCES INC.

Monthly Flow Verification PM~~10~~ 2.5

East Plant
PARTICULATE MONITORING PROJECT
PROJECT NO. 262-1

Met One Firmware: PM~~10~~ 2.5 S/N: M~~8744~~ 6466
Calibrator: Delta Calibrator S/N: 1034

Date of Flow Audit: 11/26/2013
Time of Flow Audit: 1505

	BAM	STD
Ambient Temperature (AT) °c	13.2	13.1
Berometric Pressure mmHg	658	656.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)	
(1) Actual Flow	15	15.0	0.0	15.6	-3.4	RPA
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*	
(2) Actual Flow	18.4	18.4	0.0	19.10	-3.4	RPA
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*	
(3) Actual Flow	16.7	16.8	0.6	17.48	-3.9	RPA
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%)

(2) Leak Test — BAM: ~~[illegible]~~ 0.4 — **Should be < 1.0 LPM**

Comments/Abnormalities: Self-test Passed

Signature: [illegible]

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

- Tom White = BACK-UP SITE OPERATOR.

- ALL SET POINTS ARE CLOSE TO EXCEEDING ACCEPTABLE DIFFERENTIALS, MONITOR DUE FOR CALIBRATION IN DECEMBER 2013.
RPA

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY WR DATE 12-10-13
AUDITED BY RPA DATE 11-26-13

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 12/6/2013 Time: 09:22 Operator: TEL

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). 12/6 0858: 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 G.G.

	✓	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 12/10/13
AUDITED BY G.G. DATE 12/09/13

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 G.G.

	✓	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 G.G.

	✓	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 G.G.

	✓	1.	Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2.	Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: Looks good

Signature: T Tel

**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: 12/12/2013 Time: 1348 Operator: Tom White

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). 12/12 every hour; 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.*

GG -

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 12/19/13
AUDITED BY G.G. DATE 12/13/13

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.*

GG-

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.*

GG-

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: Changed Filter Tape

* 12/12/2015 15:00 shows cont/tape/flow errors - invalidated by DASS. Filter tape change caused BAM malfunction 3hr. later from 12/12/13 19:00 through 12/13/13 12:00 - invalidated by DASS.

Site Operator contacted - issue resolved! ~~BAM~~

BAM back online 12/13/13 13:00!

Signature: T White

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

(G.G.)

EAST PLANT

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

AIR SCIENCES INC.

Date: 12/19/13 Time: 13:17 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). 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	6.6.
	✓	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 RAA DATE 12-26-13
ENTERED BY 6G DATE 12/23/13

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	6.6.
	✓	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	6.6.
	✓	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	6.6.
	✓	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓	2. Inlet system cleaned (*Work performed by Air Sciences) * 6.6.

**Comments/Unusual Occurrences: updated clock

* Maintenance error for the 14:00 hour due to the above procedure (invalidated by DASS)

Signature: TEW

**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: 12/27/13 Time: 11:13 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). BAM Cal Mem. 5% 12/23-12/27
✓		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	G.G.	
	✓		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 12/30/13
AUDITED BY G.G. DATE 12/30/13

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	G.G.	
	✓		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	G.G.	
	✓		1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	✓		2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: * self test passed

G.G.* 12/27/13 12:00 hrs. concentration invalidated due to maintenance.

Signature: T White
Tom White

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

AIR SCIENCES INC.

Monthly Flow Verification $PM_{2.5}$

East Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

AIR SCIENCES INC.

REVIEWED BY RPA DATE 12/30/13

AUDITED BY G.G. DATE 12/30/13

Met One $PM_{2.5}$: S/N: M6466

Firmware:

Calibrator: Delta Cal S/N: 1034 EXP. 8/2014

Date of Flow Audit: 12/27/2013

Time of Flow Audit: 11:40

	BAM	STD
Ambient Temperature (AT) °c	11.8	12.3
Berometric Pressure mmHg	660	657

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
			G.G.		G.G.
(1) Actual Flow	15	15.0	0	15.72	-4.58
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.3	-0.54	19.13	-4.34
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0	17.43	-4.19
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	.4	**Should be < 1.0 LPM**

Comments/Abnormalities: * Monitor due for Calibration in JAN 14 - RPA

Signature: [signature]

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

WR 10/13/13
REVIEWED BY DATE
RPA 10-21-13
AUDITED BY DATE

AIR SCIENCES INC.
DENVER • PORTLAND

Resolution EAST
SO_2 Monitoring Form

Site Operator: Kami Ballard Date: 10/18/2013

Sampler Make /Model		T100
Sampler SN		SN 193
Dilution Calibrator Model/SN	Primary	T700/SN 191
	Transfer	—

Instrument Check Start Time	9:01 LT
Instrument Check Stop Time	9:[illegible] LT
Filter Replacement Y/N	No
Shelter Temp (5 to 40 °C)	26.5
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	.097	—	± 3% of Full Scale (-15 to 15 PPB)	No
100	98.71	—	≤ ± 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	.097	.093	± 2 PPB	No
100 PPB	98.71	99.5	± 2 PPB	No

Verify instrument parameters:

Sample Flow (450 ± 45 cc/min)	456	*Sample Press. (Ambient ± 2 in-Hg)*	26.1
UV Lamp (1000 - 4800 mV)	2698.9	*Lamp Ratio (30 - 120%)*	75.2
Slope (1 ± 0.3)	1.239	*BOX Temp. (Ambient ± 5°C)*	32.8
Offset (< 250 mV)	16.7	*HVPS (400 - 900 V)*	571

Operator comments/observations:
INVALIDATED THE 1000 HRS HOURLY FILE ON 10/18/13 - RPA

Operator Signature: Kami Ballard

AIR SCIENCES INC.

DENVER • PORTLAND

Resolution EAST

SO_2 Monitoring Form

Site Operator: Kami Ballard Date: 10/30/2013

Sampler Make /Model		T100
Sampler SN		SN193
Dilution Calibrator Model/SN	Primary	T700 / SN191
	Transfer	—

Instrument Check Start Time	14:28
Instrument Check Stop Time	14:39
Filter Replacement Y/N	No
Shelter Temp (5 to 40 °C)	26.6
Instrument Range	500 PPB
Source Gas Conc.	~~40% SO~~ 40 ppm 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	.327	—	± 3% of Full Scale (-15 to 15 PPB)	No
100	99.33	—	≤ ± 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	.327	.43	± 2 PPB	No
100 PPB	99.33	99.94	± 2 PPB	No

Verify instrument parameters:

Sample Flow (450 ± 45 cc/min)	~~458~~ 450	*Sample Press. (Ambient ± 2 in-Hg)*	~~25.8~~ 25.3
UV Lamp (1000 - 4800 mV)	2676.5	*Lamp Ratio (30 - 120%)*	74.6
Slope (1 ± 0.3)	1.239	*BOX Temp. (Ambient ± 5°C)*	33.8
Offset (< 250 mV)	16.7	*HVPS (400 - 900 V)*	571

Operator comments/observations:

INVALIDATED THE HOURLY CONCENTRATION OF SO2 @ 1500 HRS DUE TO LEVEL 1 PROCEDURES - RPA

Operator Signature: Kami Ballard

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA 11/19/13 DATE

AUDITED BY 11-13-13 DATE

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY JR DATE 11/19/13
AUDITED BY RPA DATE 11-18-13

AIR SCIENCES INC.
DENVER • PORTLAND

Resolution EAST
SO_2 Monitoring Form

Site Operator: Kami Ballard Date: 11/15/2013

Sampler Make/Model		T 100
Sampler SN		SN/193
Dilution Calibrator Model/SN	Primary	T700/SN 191
	Transfer	—

Instrument Check Start Time	14:10
Instrument Check Stop Time	14:21
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	25.37
Instrument Range	500 PPB
Source Gas Conc.	~~40% SO~~ 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	.581	—	± 3% of Full Scale (-15 to 15 PPB)	No
100	98.070	—	≤ ± 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	.581	.56	± 2 PPB	No
100 PPB	98.070	98.94	± 2 PPB	No

Verify instrument parameters:

Sample Flow (450 ± 45 cc/min)	451	*Sample Press. (Ambient ± 2 in-Hg)*	25.8
UV Lamp (1000 - 4800 mV)	2652.5	*Lamp Ratio (30 - 120%)*	73.9
Slope (1 ± 0.3)	1.239	*BOX Temp. (Ambient ± 5°C)*	33.2
Offset (< 250 mV)	16.7	*HVPS (400 - 900 V)*	571

Operator comments/observations:
* Clock is 1 hour behind.
Clock AIS ON 11-18-13 - RPA

Operator Signature: Kami Ballard

AIR SCIENCES INC.

DENVER • PORTLAND

Resolution EAST

SO_2 Monitoring Form

Site Operator: R. ATTRIDGE Date: 11-27-2013

Sampler Make /Model		T 100
Sampler SN		193
Dilution Calibrator Model/SN	Primary	T700 / 191
	Transfer	N/A

Instrument Check Start Time	1226
Instrument Check Stop Time	1242
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	27.0
Instrument Range	0-500 PPB
Source Gas Conc.	40 ppm 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	0.65	0.03	± 3% of Full Scale (-15 to 15 PPB)	NO
100	96.90	97.70	≤ ± 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	0.03	0.23	± 2 PPB	NO
100 PPB	97.70	98.45	± 2 PPB	NO

Verify instrument parameters:

Sample Flow (450 ± 45 cc/min)	448	*Sample Press. (Ambient ± 2 in-Hg)*	25.7
UV Lamp (1000 - 4800 mV)	2629.8	*Lamp Ratio (30 - 120%)*	73.4
Slope (1 ± 0.3)	1.239	*BOX Temp. (Ambient ± 5°C)*	34
Offset (< 250 mV)	16.7	*HVPS (400 - 900 V)*	571

Operator comments/observations:

NONE

Operator Signature: [signature]

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REVIEWED BY WR DATE 12-3-13

PRINTED BY RPA DATE 11-27-13

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REVIEWED BY WR DATE 12-30-13
AUDITED BY RPA DATE 12-19-13

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Resolution EAST
SO_2 Monitoring Form

Site Operator: Tom White Date: 12/12/2013

Sampler Make /Model		T100
Sampler SN		193
Dilution Calibrator Model/SN	Primary	T700 191
	~~Transfer~~	

Instrument Check Start Time	1539
Instrument Check Stop Time	1603
Filter Replacement Y/N	NO
Shelter Temp. (5 to 40 °C)	21.42
Instrument Range	500 ppb
Source Gas Conc.	40% 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	3.242	*	± 3% of Full Scale (-15 to 15 PPB)	N
100	98.34	*	≤ ± 10% (90 to 110 PPB)	N

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	3.242	3.66	± 2 PPB	N
100 PPB	98.34	99.04	± 2 PPB	N

Verify instrument parameters:

Sample Flow (450 ± 45 cc/min)	458	*Sample Press. (Ambient ± 2 in-Hg)*	25.8
UV Lamp (1000 - 4800 mV)	2616.8 ~~2616.8~~	*Lamp Ratio (30 - 120%)*	72.9
Slope (1 ± 0.3)	1.239	*BOX Temp. (Ambient ± 5°C)*	26.8
Offset (< 250 mV)	16.7	*HVPS (400 - 900 V)*	571

Operator comments/observations:
INVALIDATED THE HOURLY CONCENTRATION OF SO2 @ 1600 HRS ON 12-12-13 – RPA

Operator Signature: T White

* NEED TO RECORD SO2 AFTER THE T100 REACHES STABILITY – RPA

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WR 12-30-13
REVIEWED BY DATE
RPA 12-30-13
AUDITED BY DATE

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Resolution EAST
SO_2 Monitoring Form

Site Operator: Kami BeCad Date: 12/27

Sampler Make /Model		T100
Sampler SN		SN #193
Dilution Calibrator Model/SN	Primary	T700/SN#191
	Transfer	—

Instrument Check Start Time	11:26
Instrument Check Stop Time	11:42
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	27.31
Instrument Range	500 PPB
Source Gas Conc.	40% SO 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	.592	~~.92~~	± 3% of Full Scale (-15 to 15 PPB)	No
100	98.62	—	≤ ± 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	.592	.92	± 2 PPB	No
100 PPB	~~.92~~ 98.62	99.69	± 2 PPB	NO

Verify instrument parameters:

Sample Flow (450 ± 45 cc/min)	458	*Sample Press. (Ambient ± 2 in-Hg)*	26.2
UV Lamp (1000 - 4800 mV)	2559.9	*Lamp Ratio (30 - 120%)*	71.4
Slope (1 ± 0.3)	1.239	*BOX Temp. (7 ± 2°C)*	33.4
Offset (< 250 mV)	16.7	*HVPS (400 - 900 V)*	571

Operator comments/observations:
INVALIDATED THE HOURLY SO^2 CONCENTRATION ON 12-27-13 @ 1200 HRS DUE TO LEVEL 1 OPS - RPA

Operator Signature: Kami BeCad

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REVIEWED BY WL DATE 10/25/13
RPA DATE 10-21-13
AUDITED BY DATE

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Resolution EAST
O_3 Monitoring Form

Site Operator: Kami BaCard Date: 10/18/2013

Sampler Make /Model		T400
Sampler SN		SN# 224
Dilution Calibrator Model/SN	Primary	T700/SN#191
	Transfer	—

Instrument Check Start Time	09:14 LT
Instrument Check Stop Time	09:37 LT
Filter Replacement Y/N	No
Shelter Temp (5 to 40 °C)	28.02
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	.4	—	≤ ± 2% of Full Scale (±10 PPB)	No
100	100.2	—	≤ ± 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	.4	.79	± 2 PPB	—
100 PPB	100.2	101.3	± 2 PPB	—

Verify instrument parameters:

Sample Flow (550 ± 55 cc/min)	564	*Sample Temp. (10 - 50 °C)*	40.
Photo Lamp (58 ± 1 °C)	58	*BOX Temp. (30 ± 20 °C)*	27.7
Slope (1 ± 0.15)	.959	*O3 Measure (2500 - 4800 mV)*	3250.1
Offset (0.0 ± 5 PPB)	.8	*O3 Reference (2500 - 4800 mV)*	3251.4

Operator comments/observations:
INVALIDATED THE 1000HRS HOURLY FILE ON 10-18-13 – RPA

Operator Signature: Kami BaCard

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REVIEWED BY JRL DATE 11/19/13
AUDITED BY RPA DATE 11.13.13

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Resolution EAST

O_3 Monitoring Form

Site Operator: Kara Ballard Date: 10/30/2013

Sampler Make /Model		T400
Sampler SN		SN 224
Dilution Calibrator Model/SN	Primary	T700/SN 191
	Transfer	—

Instrument Check Start Time	14:41
Instrument Check Stop Time	14:52
Filter Replacement Y/N	No
Shelter Temp (5 to 40 °C)	28.3
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	—	≤ ± 2% of Full Scale (±10 PPB)	No
100	99.7	—	≤ ± 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	.6	.91	± 2 PPB	No
100 PPB	99.7	100.19	± 2 PPB	No

Verify instrument parameters:

Sample Flow (550 ± 55 cc/min)	557	*Sample Temp. (10 - 50 °C)*	41.1
Photo Lamp (58 ± 1 °C)	58.0	*BOX Temp. (30 ± 20 °C)*	29.2
Slope (1 ± 0.15)	0.887	*O3 Measure (2500 - 4800 mV)*	3232.6
Offset (0.0 ± 5 PPB)	.8	*O3 Reference (2500 - 4800 mV)*	3234.6

Operator comments/observations:
INVALIDATED THE 15COHRS O^3 CONCENTRATION DUE TO LEVEL 1 PROCEDURES - RPA

Operator Signature: Kara Ballard

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REVIEWED BY SR DATE 11/19/13
AUDITED BY RPA DATE 11-18-13

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Resolution EAST

O_3 Monitoring Form

Site Operator: Kami Bollard Date: 11/15/2013

Sampler Make /Model		T400
Sampler SN		SN#-224
Dilution Calibrator Model/SN	Primary	T700/SN#191
	Transfer	—

Instrument Check Start Time	14:23
Instrument Check Stop Time	14:45
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	23.76
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	-0.0	~~0.5~~	≤ ± 2% of Full Scale (±10 PPB)	No
100	97.3	—	≤ ± 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	-0.0	0.5	± 2 PPB	No
100 PPB	97.3	98.1	± 2 PPB	No

Verify instrument parameters:

Sample Flow (550 ± 55 cc/min)	554	*Sample Temp. (10 - 50 °C)*	40.1
Photo Lamp (58 ± 1 °C)	58.0	*BOX Temp. (30 ± 20 °C)*	28.1
Slope (1 ± 0.15)	0.887	*O3 Measure (2500 - 4800 mV)*	3216.7
Offset (0.0 ± 5 PPB)	0.8	*O3 Reference (2500 - 4800 mV)*	3218.6

Operator comments/observations:
* Clock was 1 hour behind.
* CLOCK ADJ ON 11-18-13 - RPA

Operator Signature: Kami Bollard

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Resolution EAST

O_3 Monitoring Form

Site Operator: R. ATTRIDGE Date: 11-27-2013

Sampler Make /Model		T400
Sampler SN		224
Dilution Calibrator Model/SN	Primary	T700 / 191
	Transfer	N/A

Instrument Check Start Time	1205
Instrument Check Stop Time	1225
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	27.2
Instrument Range	0-500 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	-0.6	-0.4	≤ ± 2% of Full Scale (±10 PPB)	NO
100	98.2	99.1	≤ ± 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	-0.4	0.14	± 2 PPB	NO
100 PPB	99.1	99.5	± 2 PPB	NO

Verify instrument parameters:

Sample Flow (550 ± 55 cc/min)	546	*Sample Temp. (10 - 50 °C)*	42.8
Photo Lamp (58 ± 1 °C)	58	*BOX Temp. (30 ± 20 °C)*	30.3
Slope (1 ± 0.15)	0.887	*O3 Measure (2500 - 4800 mV)*	3191.5
Offset (0.0 ± 5 PPB)	0.8	*O3 Reference (2500 - 4800 mV)*	3192.7

Operator comments/observations:

NONE

Operator Signature: [signature]

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WR 12-3-13
REVIEWED BY DATE
RPA 11-27-13
AUDITED BY DATE

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REVIEWED BY wk DATE 12-30-13
AUDITED BY RPA DATE 12-19-13

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Resolution EAST

O_3 Monitoring Form

Site Operator: Tom White Date: 12/12/2013

Sampler Make /Model		T400
Sampler SN		224
Dilution Calibrator Model/SN	Primary	T700 191
	~~Transfer~~	

Instrument Check Start Time	1516
Instrument Check Stop Time	1536
Filter Replacement Y/N	No
Shelter Temp (5 to 40 °C)	20.87
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	0.0	*	≤ ± 2% of Full Scale (±10 PPB)	N
100	99.1	*	≤ ± 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	0.0	0.61	± 2 PPB	N
100 PPB	99.1	100.19	± 2 PPB	N

Verify instrument parameters:

Sample Flow (550 ± 55 cc/min)	571	*Sample Temp. (10 - 50 °C)*	35.3
Photo Lamp (58 ± 1 °C)	58	*BOX Temp. (30 ± 20 °C)*	21.1
Slope (1 ± 0.15)	0.887	*O3 Measure (2500 - 4800 mV)*	3189.0
Offset (0.0 ± 5 PPB)	0.8	*O3 Reference (2500 - 4800 mV)*	3190.2

Operator comments/observations:
INVALIDATED THE HOURLY CONCENTRATION OF O3 @ 1600 HRS ON 12-12-13 – RPA

Operator Signature: T White

* NEED TO RECORD O3 AFTER THE T400 REACHES STABILITY – RPA

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REVIEWED BY WR DATE 12-30-13
AUDITED BY RPA DATE 12-30-13

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Resolution EAST

O_3 Monitoring Form

Site Operator: K. Bacla Date: 12/27/2013

Sampler Make /Model		T400
Sampler SN		SN 224
Dilution Calibrator Model/SN	Primary	T700/SN 191
	Transfer	—

Instrument Check Start Time	11:42
Instrument Check Stop Time	12:06
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	26-27
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	~~35.2~~ -0.6	~~-0.15~~	≤ ± 2% of Full Scale (±10 PPB)	No
100	93.9	—	≤ ± 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	-0.6	-0.15	± 2 PPB	
100 PPB	93.9	94.52	± 2 PPB	

Verify instrument parameters:

Sample Flow (550 ± 55 cc/min)	580	*Sample Temp. (10 - 50 °C)*	37.8
Photo Lamp (58 ± 1 °C)	58.0	*BOX Temp. (30 ± 20 °C)*	22.8
Slope (1 ± 0.15)	0.887	*O3 Measure (2500 - 4800 mV)*	3165.6
Offset (0.0 ± 5 PPB)	0.8	*O3 Reference (2500 - 4800 mV)*	3168.3

Operator comments/observations:
INVALIDATED THE HOURLY CONCENTRATIONS OF O^3 @ 1200HRS AND 1300HRS ON 12-27-13 DUE TO LEVEL 1 OPS - RPA

Operator Signature: Tami Bacla

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REVIEWED BY WR DATE 10/25/13
AUDITED BY RPA DATE 10-31-13

Resolution EAST
NO_x Monitoring Form

Site Operator: Kami Ballard Date: 10/18/2013

Sampler Make /Model		T200
Sampler SN		SN 197
Dilution Calibrator Model/SN	Primary	T700 SN 191
	Transfer	—

Instrument Check Start Time	8:35
Instrument Check Stop Time	9:00
Filter Replacement Y/N	No
Shelter Temp (5 to 40 °C)	
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	1.3	1.2	—	±3% of full Scale (±15 PPB)	No
100 PPB	99.2	2.3	101.5	—	≤±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	-0.1	NO	-0.81	±2 PPB	No
	NO_2	1.3	NO_2	1.01		
	NO_x	1.2	NO_x	1.06		
100 PPB	NO	99.2	NO	99.2	±2 PPB	NO
	NO_2	2.3	NO_2	2.1		
	NO_x	101.5	NO_x	101.4		

Verify instrument parameters:

Sample Flow (500 ± 50 cc/min)	503	*Moly Temp. (315 ± 5°C)*	317.5
Ozone Flow (80 ± 15 cc/min)	76	*HVPS (400 - 900 V)*	601
NOx Slope (1 ± 0.3)	1.305	*NO Slope (1 ± 0.3)*	1.289
NOx Offset (0 ± 100)	1.3	*NO Offset (0 ± 100)*	0.1

Operator comments/observations:
INVALIDATED HOURLY FILES FOR 0900-1000 HRS ON 10/18/13 - RPA

Operator Signature: Kami Ballard

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Resolution EAST

NO_x Monitoring Form

Site Operator: Kane Ballard Date: 10/30/2013

Sampler Make /Model		T200
Sampler SN		SN# 197
Dilution Calibrator Model/SN	Primary	T700/ SN# 191
	Transfer	—

Instrument Check Start Time	14:11
Instrument Check Stop Time	14:27
Filter Replacement Y/N	No
Shelter Temp (5 to 40 °C)	27.47
Instrument Range	500 PPB
Source Gas Conc.	40% No

40 PPM 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	-0.2	3.4	3.2	—	±3% of full Scale (±15 PPB)	No
100 PPB	95.6	3.7	99.5	—	≤±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	-0.33	±2 PPB	No
	NO_2	3.4	NO_2	3.34		
	NO_x	3.2	NO_x	3.21		
100 PPB	NO	95.6	NO	95.6	±2 PPB	No
	NO_2	3.7	NO_2	3.6		
	NO_x	99.5	NO_x	99.7		

Verify instrument parameters:

Sample Flow (500 ± 50 cc/min)	492	*Moly Temp. (315 ± 5°C)*	316.6
Ozone Flow (80 ± 15 cc/min)	75	*HVPS (400 - 900 V)*	601
NOx Slope (1 ± 0.3)	1.305	*NO Slope (1 ± 0.3)*	1.289
NOx Offset (0 ± 100)	1.3	*NO Offset (0 ± 100)*	0.1

Operator comments/observations:

INVALIDATED NO, NO2 AND NOX CONCENTRATIONS FOR THE 1500HRS AS A RESULT OF LEVEL 1 PROCEDURES - RPA

Operator Signature: Kane Ballard

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REVIEWED BY JR DATE 11/19/13

AUDITED BY RPA DATE 11-13-13

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REVIEWED BY JR DATE 11/19/13
AUDITED BY RPA DATE 11-18-13

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Resolution EAST
NO_x Monitoring Form

Site Operator: Kami Bella Date: 11/15/2013

Sampler Make /Model		T200
Sampler SN		SN 197
Dilution Calibrator Model/SN	Primary	T700/SN 191
	Transfer	—

Instrument Check Start Time	13:58
Instrument Check Stop Time	14:10
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	24.4
Instrument Range	500 PPB
Source Gas Conc.	~~40% NO~~ 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	0.0	0.4	0.4	—	±3% of full Scale (±15 PPB)	No
100 PPB	94.7	4.6	99.4	—	≤±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	0.0	NO	-0.5	±2 PPB	No
	NO_2	0.4	NO_2	-0.03		
	NO_x	0.4	NO_x	0.3		
100 PPB	NO	94.7	NO	94.7	±2 PPB	No
	NO_2	4.6	NO_2	4.5		
	NO_x	99.4	NO_x	99.2		

Verify instrument parameters:

Sample Flow (500 ± 50 cc/min)	496	*Moly Temp. (315 ± 5°C)*	316.3
Ozone Flow (80 ± 15 cc/min)	75	*HVPS (400 - 900 V)*	601
NOx Slope (1 ± 0.3)	1.305	*NO Slope (1 ± 0.3)*	1.289
NOx Offset (0 ± 100)	1.3	*NO Offset (0 ± 100)*	0.1

Operator comments/observations:

* Time is 1 hour behind

CLOCK ADJUSTED ON 11-18-13 — RPA

Operator Signature: Kami BaCo d

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Resolution EAST

NO_x Monitoring Form

Site Operator: R. ATTRIDGE Date: 11·27·2013

Sampler Make /Model		T 200
Sampler SN		197
Dilution Calibrator Model/SN	Primary	T 700 / 191
	Transfer	N/A

Instrument Check Start Time	1243
Instrument Check Stop Time	1307
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	26.9
Instrument Range	0-500ppb
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	-0.1	1.4	1.2	1.3	± 3% of full Scale (±15 PPB)	NO
100 PPB	96.8	1.7	98.5	98.7	≤ ± 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	-0.33	± 2 PPB	NO
	NO_2	1.5	NO_2	1.29		
	NO_x	1.3	NO_x	1.35		
100 PPB	NO	96.7	NO	96.66	± 2 PPB	NO
	NO_2	1.9	NO_2	1.75		
	NO_x	98.7	NO_x	98.50		

Verify instrument parameters:

Sample Flow (500 ± 50 cc/min)	485	*Moly Temp. (315 ± 5°C)*	314.5
Ozone Flow (80 ± 15 cc/min)	75	*HVPS (400 - 900 V)*	601
NOx Slope (1 ± 0.3)	1.305 WR	*NO Slope (1 ± 0.3)*	1.289
NOx Offset (0 ± 100)	1.3	*NO Offset (0 ± 100)*	0.1

Operator comments/observations:

NONE

Operator Signature: [signature]

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REVIEWED BY WR DATE 12-3-13

AUDITED BY RPA DATE 11-27-13

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WR 12-30-13
REVIEWED BY RPA DATE 12-19-13
AUDITED BY DATE

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Resolution EAST
NO_x Monitoring Form

Site Operator: Tom White Date: 12/12/2013

Sampler Make/Model		T200
Sampler SN		# 197
Dilution Calibrator Model/SN	Primary	T700/191
	~~Transfer~~	

Instrument Check Start Time	1445
Instrument Check Stop Time	1510
Filter Replacement Y/N	No
Shelter Temp (5 to 40 °C)	20.12
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	1.0	2.1	3.1	*	±3% of full Scale (±15 PPB)	N
100 PPB	102.1	6.5	108.6	*	≤±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	1.0	NO	0.46	±2 PPB	N
	NO_2	2.1	NO_2	1.58		
	NO_x	3.1	NO_x	2.70		
100 PPB	NO	102.0	NO	101.88	±2 PPB	N
	NO_2	6.0	NO_2	6.019		
	NO_x	108.0	NO_x	107.89		

Verify instrument parameters:

Sample Flow (500 ± 50 cc/min)	495	*Moly Temp. (315 ± 5°C)*	315
Ozone Flow (80 ± 15 cc/min)	76	*HVPS (400 - 900 V)*	600
NOx Slope (1 ± 0.3)	1.546	*NO Slope (1 ± 0.3)*	1.461
NOx Offset (0 ± 100)	1.3	*NO Offset (0 ± 100)*	0.1

Operator comments/observations:
INVALIDATED THE HOURLY CONCENTRATION OF NO^x, NO, NO^2 @ 1600 HRS ON 12-12-13 - RPA

Operator Signature: [signature]

* NEED TO RECORD THE NO^x AFTER THE T200 REACHES STABILITY - RPA

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WR 12-30-13
REVIEWED BY RPA DATE 12-30-13
AUDITED BY DATE

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Resolution EAST
NO_x Monitoring Form

Site Operator: Kami Ballard Date: 12/27/2013

Sampler Make /Model		T200
Sampler SN		SN # 197
Dilution Calibrator Model/SN	Primary	T700/SN 191
	Transfer	—

Instrument Check Start Time	11:10
Instrument Check Stop Time	11:26
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	26.85
Instrument Range	500 PPB
Source Gas Conc.	40% NO 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	-0.4	0.9	0.5	—	±3% of full Scale (±15 PPB)	N
100 PPB	102.6	6.5	109.1	—	≤±10% (90 to 110 PPB)	N

? * Kind of high?

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	-0.4	NO	-0.66		±2 PPB	No
	NO_2	0.9	NO_2	0.74			
	NO_x	0.5	NO_x	.46			
100 PPB	NO	102.6	NO	102.18		±2 PPB	No
	NO_2	6.5	NO_2	6.39			
	NO_x	109.1	NO_x	108.71			

Verify instrument parameters:

Sample Flow (500 ± 50 cc/min)	497	*Moly Temp. (315 ± 5°C)*	316.4
Ozone Flow (80 ± 15 cc/min)	76	*HVPS (400 - 900 V)*	601
NOx Slope (1 ± 0.3)	1.546	*NO Slope (1 ± 0.3)*	1.461
NOx Offset (0 ± 100)	1.3	*NO Offset (0 ± 100)*	0.1

Operator comments/observations:

INVALIDATED THE 1200 HRS NO, NO2, AND NOX CONCENTRATIONS ON 12-27-13 @ 1200 HRS DUE TO LEVEL 1 OPS – **Operator Signature:** Kami Ballard

RPA

* 12-30-13 → REMOTE ZERO/SPAN CONDUCTED TO CORRECT CALIBRATION FACTORS – RPA

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WR 12-30-13
REVIEWED BY DATE
RPA 12-30-13
AUDITED BY DATE

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Resolution EAST
NO_x Monitoring Form

Site Operator: R. ATTRIDGE **Date:** 12-30-13

Sampler Make /Model		T200
Sampler SN		197
Dilution Calibrator Model/SN	Primary	T700 / 191
	Transfer	N/A

Instrument Check Start Time	1020 HRS
Instrument Check Stop Time	1100 HRS
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	24.1
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)	NO Response (PPB)	NO_2 Response (PPB)	Nox Response (PPB)	Final NO_x Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-0.49	-0.04	-0.23	-0.0	± 3% of full Scale (±15 PPB)	YES
100 PPB	104.8	6.8	111.6	100.7	≤ ± 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	0.0	NO	-0.19	± 2 PPB	NO
	NO_2	-0.0	NO_2	-0.38		
	NO_x	-0.0	NO_x	-0.06		
100 PPB	NO	98.4	NO	98.1	± 2 PPB	NO
	NO_2	2.3	NO_2	2.12		
	NO_x	100.7	NO_x	100.3		

Verify instrument parameters:

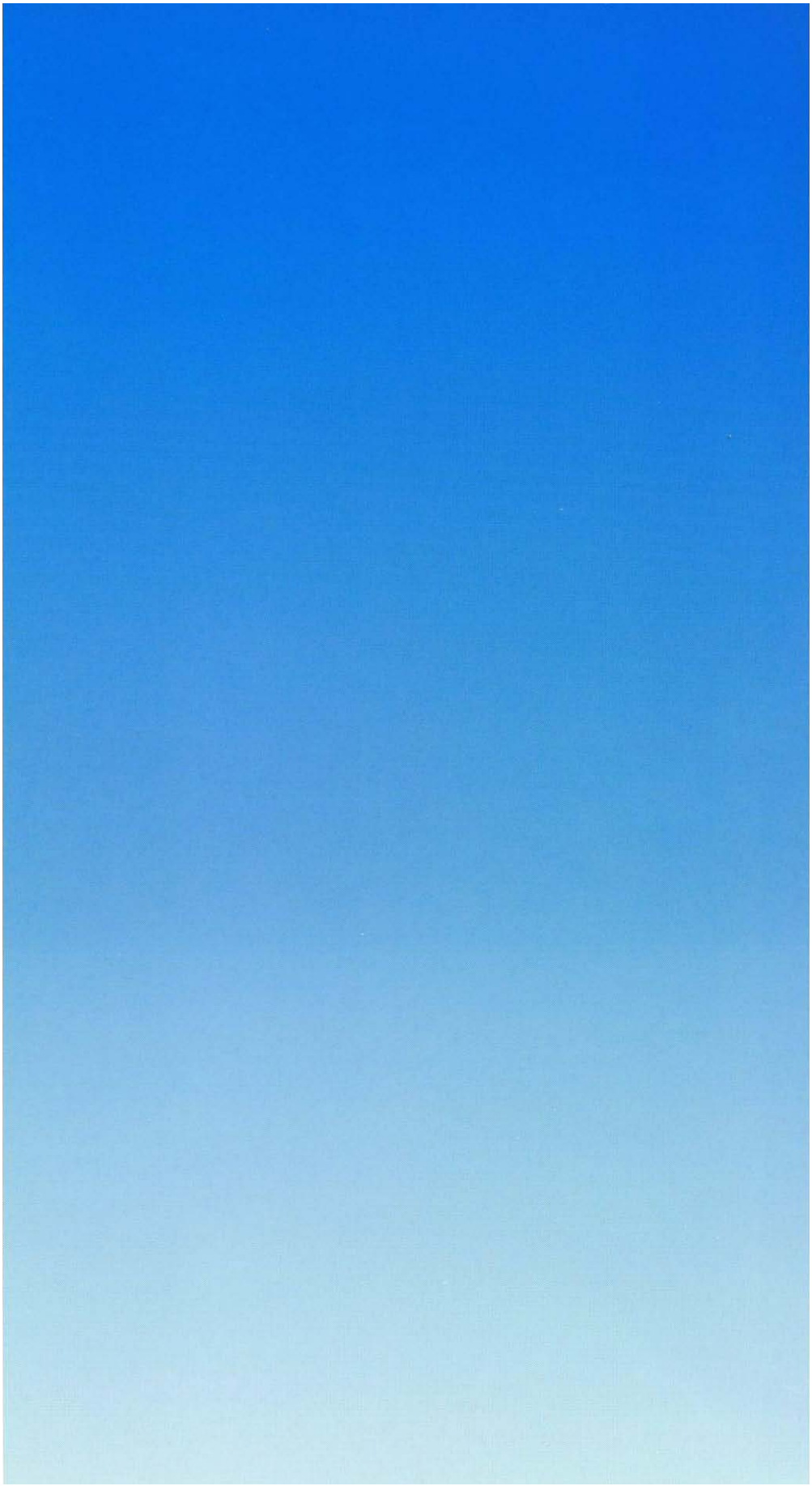
Sample Flow (500 ± 50 cc/min)	497	*Moly Temp. (315 ± 5°C)*	315.5
Ozone Flow (80 ± 15 cc/min)	76	*HVPS (400 - 900 V)*	600
NOx Slope (1 ± 0.6)	1.546	*NO Slope (1 ± 0.6)*	1.461
NOx Offset (0 ± 100)	1.3	*NO Offset (0 ± 100)*	0.1

Operator comments/observations:

CORRECTED CALIBRATION FACTOR DRIFT NOTED IN THE DAILY ZERO/SPAN VALUES - RPA

Operator Signature:

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
OCTOBER 2013

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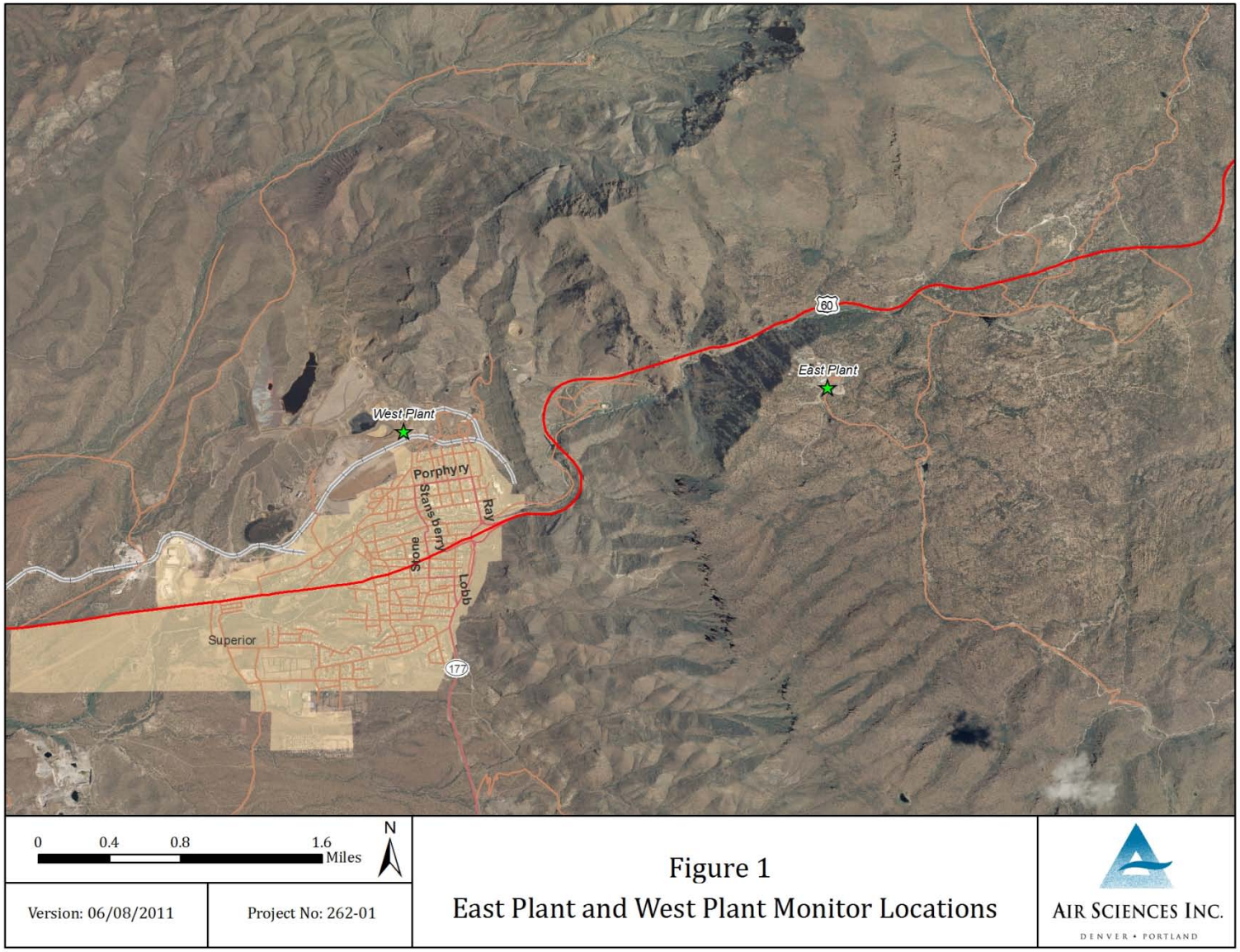
Appendix A: Calibration Forms

1.0 INTRODUCTION

On October 8 and 9, 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:

- EPA-454/B-13-003, Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Quality Monitoring Program, May 2013
- 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 Calibration 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 Calibration (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 Calibration 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:**	M8712
Audit Date:	10/08/2013	**Audited By:**	R. Attridge
Audit Time:	1505hrs		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	1103	Calibration Date:	4/13/2013
Temperature Standard Used:	Model:	Delta Cal	Serial No:	1103	Calibration Date:	4/13/2013
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	1103	Calibration Date:	4/13/2013

Leak Check Value:	as found:	0.3 LPM	Should Be: <1.0	as left:	0.3 LPM	Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	25.7	24.5	as left:	24.9	25.22	Adjusted	x
Barometric Pressure (mmHg):	as found:	652	652	as left:	652	652	Adjusted	
Flow Rate (15.0 LPM):	as found:	15.0	14.90	as left:	15.0	14.95	Adjusted	
Flow Rate (18.4 LPM):	as found:	18.4	18.18	as left:	18.4	18.33	Adjusted	x
Flow Rate (16.7 LPM):	as found:	16.7	16.56	as left:	16.7	16.69	Adjusted	

Audit Notes: **Monitor found in a very clean, 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		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: Rory Attridge

East Plant BAM-1020 $PM_{2.5}$ Audit Sheet

Model:	**BAM-1020**	**Serial Number:**	M6646
Audit Date:	10/08/2013	**Audited By:**	R. Attridge
Audit Time:	1430hrs		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	1103	Calibration Date:	4/13/2013
Temperature Standard Used:	Model:	Delta Cal	Serial No:	1103	Calibration Date:	4/13/2013
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	1103	Calibration Date:	4/13/2013

Leak Check Value:	as found:	0.4 LPM	Should Be: <1.0	as left:	0.4 LPM	Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	24.8	25.6	as left:	25.4	25.8	Adjusted	x
Barometric Pressure (mmHg):	as found:	652	652	as left:	652	652	Adjusted	
Flow Rate (15.0 LPM):	as found:	15.0	15.27	as left:	15.0	15.18	Adjusted	
Flow Rate (18.4 LPM):	as found:	18.4	18.57	as left:	18.4	18.50	Adjusted	
Flow Rate (16.7 LPM):	as found:	16.7	16.77	as left:	16.7	16.69	Adjusted	

Audit Notes: **Instrument found in a clean, serviceable condition.- RPA**

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	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	X	N/A	
Rubber pinch rollers clean:	As found	X	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: Rory Attridge

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Resolution EAST

NO_x Monitoring Form

Site Operator: R. Attridge **Date: 10-09-2013**

Sampler Make /Model		T200
Sampler SN		197
Dilution Calibrator Model/SN	**Primary**	**T700/191**
	Transfer	**N/A**

Instrument Check Start Time	0930
Instrument Check Stop Time	1700
Filter Replacement Y/N	No
Shelter Temp (5 to 40 °C)	26.8
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.o	0.0	o.1	0.2	± 3% of full scale (± 15 PPB)	No
100 PPB	96.7	1.4	97.8	100.0	≤ ± 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 (PPB)	Adjustment Required? Y/N
Zero Air	NO	0.000	NO	-0.24	± 2	No
	NO_2	0.000	NO_2	-0.23		
	NO_x	0.000	NO_x	-0.08		
400	NO	96.700	NO	96.4	± 2	No
	NO_2	1.400	NO_2	0.78		
	NO_x	97.800	NO_x	97.6		

Verify Instrument Parameters:

Sample Flow (500 ± 50 cc/min)	481	Moly Temp. (315 ± 5°C)	315.6
Ozone Flow (80 ± 15 cc/ min)	75	HVPS (400 – 900 V)	601
NO_x Slope (1 ± 0.3)	1.1411	NO Slope (1 ± 0.3)	1.288
NO_x Offset (0 ± 100)	7.9	NO Offset (0 ± 100)	0.1

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	0.0	0.0	0.1	-2.6	PASS, 0 ± 5
100	100	98.3	1.1	101.3	101.3	PASS, 1.9%
200	200	197.4	6.4	203.8	205.1	PASS, 0.7%
300	300	298.8	9.4	308.0	309.0	PASS, 0.3%
400	399	401.7	10.0	412.0	411.8	PASS, 0%
500	499	503.3	13.7	517.1	515.7	PASS, 0.3%

Best Fit Line
(BFL)
Y = 1.0387x +- 2.5832
R^2 = 0.99992

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

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Resolution EAST

O_3 Monitoring Form

Site Operator: R. Attridge **Date: 10-09-2013**

Sampler Make /Model		T400
Sampler SN		224
Dilution Calibrator Model/SN	**Primary**	T700/ 191
	Transfer	N/A

Instrument Check Start Time	1230
Instrument Check Stop Time	1700
Filter Replacement Y/N	No
Shelter Temp (5 to 40 °C)	24.5
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	0.000	0.120	≤ ± 2% of Full Scale (± 10 PPB)	No
100	100.000	101.900	≤ ± 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 (PPB)	Adjustment Required? Y/N
Zero Air	0.100	0.630	± 2	No
100	101.900	102.100	± 2	No

Verify Instrument Parameters:

Sample Flow (550 ± 55 cc/ min)	549	Sample Temp. (10 - 50°C)	37.7
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (30 ± 20°C)	25.1
Slope (1 ± 0.15)	0.900	O_3 Measure (2500 – 4800 mV)	3267.0
Offset (0.0 ± 5 PPB)	0.5	O_3 Reference (2500 – 4800 mV)	3268.0

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	0.1	1.8	PASS, < 2% FS
100	100.0	98.2	97.6	PASS, 0.6%
200	201.0	196.4	193.3	PASS, 1.6%
300	302.0	293.4	289.0	PASS, 1.5%
400	401.0	384.7	384.8	PASS, 0%
500	502.0	477.9	480.5	PASS, 0.5%

Best Fit Line (BFL)
$Y = 0.9573x + 1.8393$
$R^2 = 0.99978$

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:

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Resolution EAST

SO_2 Monitoring Form

Site Operator: R. Attridge **Date: 10-09-2013**

Sampler Make /Model		T100
Sampler SN		193
Dilution Calibrator Model/SN	**Primary**	T700/ 191
	Transfer	N/A

Instrument Check Start Time	1110
Instrument Check Stop Time	1700
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	23.3
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	0.30	0.310	± 3% of Full Scale (-15 to 15 PPB)	N
100	101.8	99.98	≤ ± 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	0.300	0.310	± 2	N
100	99.80	100.08	± 2	N

Verify Instrument Parameters:

Sample Flow (450 ± 45 cc/ min)	453	Sample Press. (Ambient ± 2 in-Hg)	25.6
UV Lamp (1000 – 4800 mV)	2708.3	Lamp Ratio (30 – 120%)	75
Slope (1 ± 0.3)	1.216	BOX Temp. (Ambient ± 5°C)	29.8
Offset (< 250 mV)	16.7	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	0.30	-0.074	PASS, <2%FS
100	101	99.80	100.976	PASS, 1.2%
200	200	200.40	200.026	PASS, 0.2%
300	300	299.10	300.075	PASS, 0.3%
400	399	399.2	399.124	PASS, 0%
500	499	499.7	499.174	PASS, 0.1%

Best Fit Line (BFL)
$Y = 1.0005x + -0.0738$
$R^2 = 0.99999$

Transfer Standard:

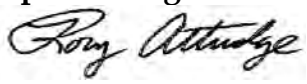
Target (PPB)	Actual Generated SO_2 (PPB)	SO_2 Response (PPB)	Best Fit Line (PPB)	Acceptable Criteria (± 2% from BFL)
Zero Air				
100				
200				
300				
400				
500				

Best Fit Line (BFL)

Operator Comments/ observations:

Discovered the T100 touch-screen interface inoperable due to a faulty control board. Replacement board ordered and covered under warranty- RPA

Operator Signature:



Air Quality Calibration Report West Plant Monitoring Station

PREPARED FOR:

RESOLUTION COPPER MINING

PREPARED BY:
RORY ATTRIDGE
AIR SCIENCES INC.

PROJECT 262-5
OCTOBER 2013

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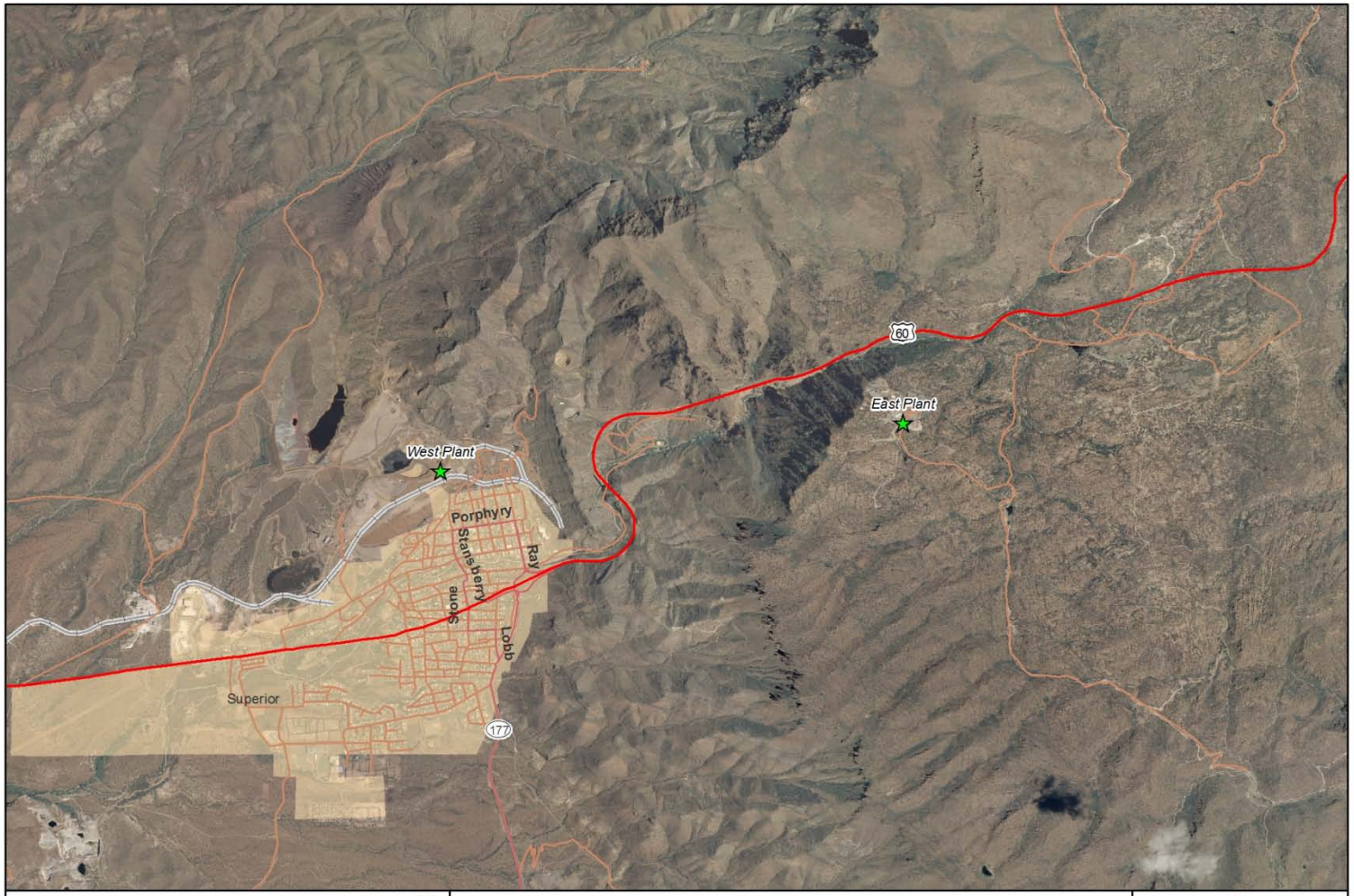
SECTION 1

INTRODUCTION

On October 8, 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-13-003, May 2013)
- Code of Federal Regulations (40 CFR Parts 50 and 58)

Figure 1: Project Location Map – East Plant and West Plant Monitoring Station Locations



0 0.4 0.8 1.6 Miles

N

Version: 06/08/2011

Project No: 262-01

Figure 1

East Plant and West Plant Monitor Locations

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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 Calibrationed 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

East Plant BAM-1020 $PM_{2.5}$ Audit Sheet

Model:	**BAM-1020**	**Serial Number:**	M6646
Audit Date:	10/08/2013	**Audited By:**	R. Attridge
Audit Time:	1430hrs		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	1103	Calibration Date:	4/13/2013
Temperature Standard Used:	Model:	Delta Cal	Serial No:	1103	Calibration Date:	4/13/2013
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	1103	Calibration Date:	4/13/2013

Leak Check Value:	as found:	0.4 LPM	Should Be: <1.0	as left:	0.4 LPM	Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	24.8	25.6	as left:	25.4	25.8	Adjusted	x
Barometric Pressure (mmHg):	as found:	652	652	as left:	652	652	Adjusted	
Flow Rate (15.0 LPM):	as found:	15.0	15.27	as left:	15.0	15.18	Adjusted	
Flow Rate (18.4 LPM):	as found:	18.4	18.57	as left:	18.4	18.50	Adjusted	
Flow Rate (16.7 LPM):	as found:	16.7	16.77	as left:	16.7	16.69	Adjusted	

Audit Notes: **Instrument found in a clean, serviceable condition.- RPA**

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	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	X	N/A	
Rubber pinch rollers clean:	As found	X	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: Rory Attridge

East Plant BAM-1020 PM_{10} Audit Sheet

Model:	**BAM-1020**	**Serial Number:**	M8712
Audit Date:	10/08/2013	**Audited By:**	R. Attridge
Audit Time:	1505hrs		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	1103	Calibration Date:	4/13/2013
Temperature Standard Used:	Model:	Delta Cal	Serial No:	1103	Calibration Date:	4/13/2013
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	1103	Calibration Date:	4/13/2013

Leak Check Value:	as found:	0.3 LPM	Should Be: <1.0	as left:	0.3 LPM	Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	25.7	24.5	as left:	24.9	25.22	Adjusted	x
Barometric Pressure (mmHg):	as found:	652	652	as left:	652	652	Adjusted	
Flow Rate (15.0 LPM):	as found:	15.0	14.90	as left:	15.0	14.95	Adjusted	
Flow Rate (18.4 LPM):	as found:	18.4	18.18	as left:	18.4	18.33	Adjusted	x
Flow Rate (16.7 LPM):	as found:	16.7	16.56	as left:	16.7	16.69	Adjusted	

Audit Notes: **Monitor found in a very clean, 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		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: Rory Attridge

Appendix L: CD