AIR SCIENCES INC.

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Baseline Meteorological and Air Quality Data Report Resolution Copper Mining Project

January 1 – March 31, 2014

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 first quarter, January 1 – March 31, 2014. 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

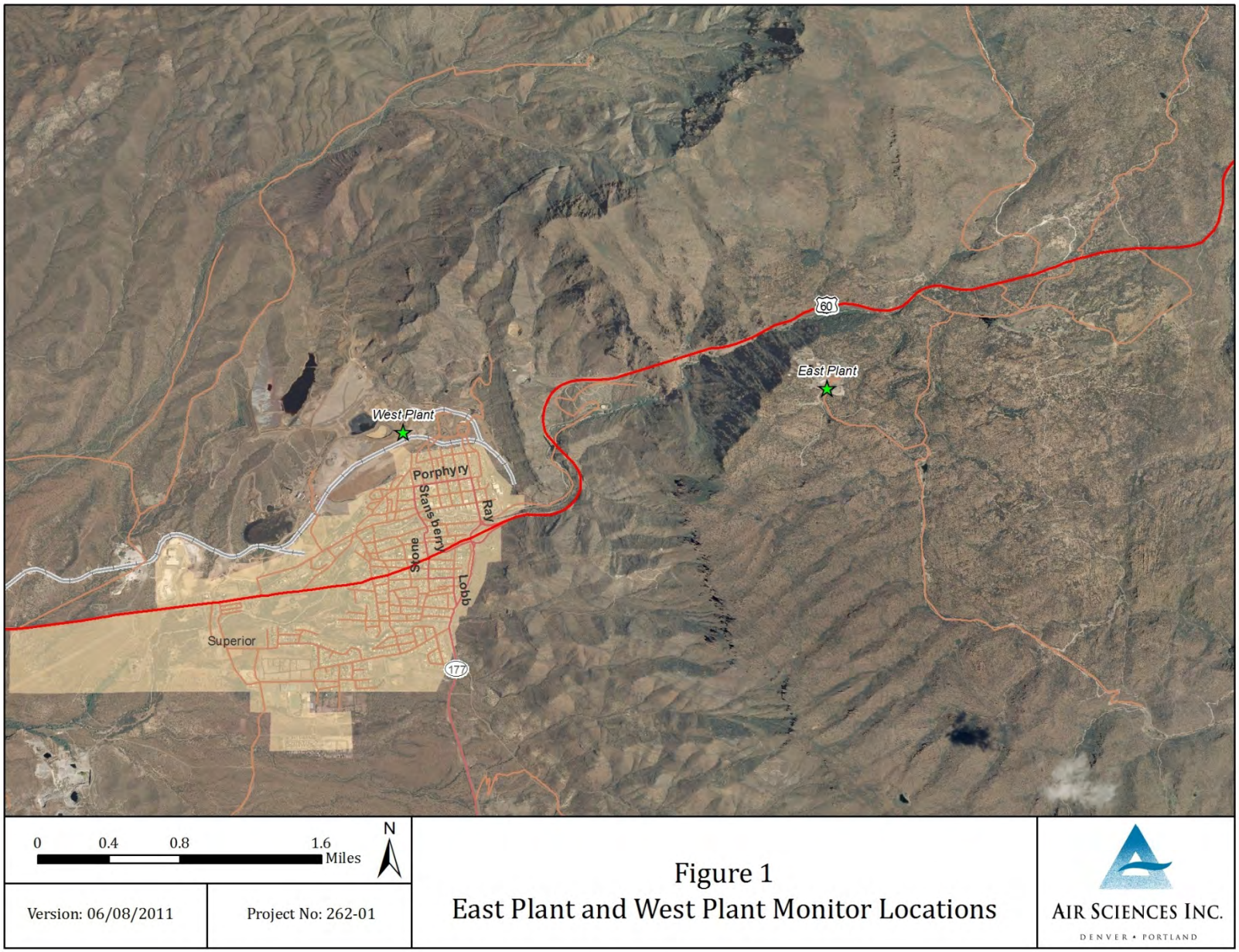
The Resolution Copper Project is located near Superior, Arizona. Currently there are two meteorological and air quality stations. The East Plant station is located at the main project site, east of Superior. The West Plant station is located at RCML's facilities directly north of Superior, Arizona. The 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 January 1 through March 31, 2014.

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 January 1 through March 31, 2014.

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 January 1 through March 31, 2014.

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 January 1 through March 31, 2014.

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 January 1 through March 31, 2014.

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
January 1 – March 31, 2014
(percent)

	East Plant		West Plant		
Parameter*	**Recorded Observations**	**Recovery Rate**	**Recorded Observations**	**Recovery Rate**	**Minimum Required Recovery Rate**
Meteorological					
Wind speed (10 m)	2,157	99.9	2,157	99.9	90
Wind direction (10 m)	2,157	99.9	2,157	99.9	90
Temperature (2 m)	2,157	99.9	2,157	99.9	90
Delta temperature	2,157	99.9	2,157	99.9	90
Relative humidity	2,157	99.9	2,157	99.9	90
Barometric pressure	2,157	99.9	2,157	99.9	90
Precipitation	2,157	99.9	2,157	99.9	90
Solar radiation	2,157	99.9	2,157	99.9	90
NO_2	83	92.2	--	--	75
O_3	80	88.9	--	--	75
SO_2	83	92.2	--	--	75
PM_{10}	90	100	90	100	75
$PM_{2.5}$	90	100	90	100	75

*Meteorological parameters are observed hourly (2,160 hours in this period).
NO_2, O_3, SO_2, and PM parameters are observed every 24 hours (90 days in this period).

2.1 Data Loss

2.1.1 Meteorological Data Loss

2.1.1.1 East Plant

Meteorological data invalidated at the East Plant station for this quarter was due to a site audit performed by Air Sciences on January 14, 2014.

2.1.1.2 West Plant

Meteorological data invalidated at the West Plant station for this quarter was due to a site audit performed by Air Sciences on January 13, 2014.

2.1.2 NO_2 Data Loss

NO_2 24-hour maximum data were invalidated from January 14 through January 16, 2014, due to maintenance, and a calibration performed by Air Sciences. 24-hour maximum data were also invalidated from January 10 through January 13, 2014, as a result of the shelter temperature being outside of the required range.

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 from January 14 through January 16, 2014, due to maintenance, and a calibration performed by Air Sciences. 24-hour maximum data were also invalidated from January 10 through January 13, 2014, as a result of the shelter temperature being outside of the required range.

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 from January 14 through January 16, 2014, due to maintenance, and a calibration performed by Air Sciences. 24-hour maximum data were also invalidated from January 10 through January 13, 2014, as a result of the shelter temperature being outside of the required range, and on January 22 and 23, 2014 and February 18, 2014 due to additional maintenance being 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 January 14, 2014, due to maintenance and an audit performed by Air Sciences.

Hourly $PM_{2.5}$ data were invalidated on January 14, 2014, due to maintenance and an audit performed by Air Sciences.

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 January 13, 2014, due to maintenance and an audit performed by Air Sciences.

Hourly $PM_{2.5}$ data were invalidated on January 13, 2014, due to maintenance and an audit performed by Air Sciences.

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 January 12, and January 16, 2014. 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
January 1- March 31, 2014

3.0 METEOROLOGICAL DATA SUMMARY AND DISCUSSION

3.1 Meteorological Data Summary

Meteorological data from the first 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.

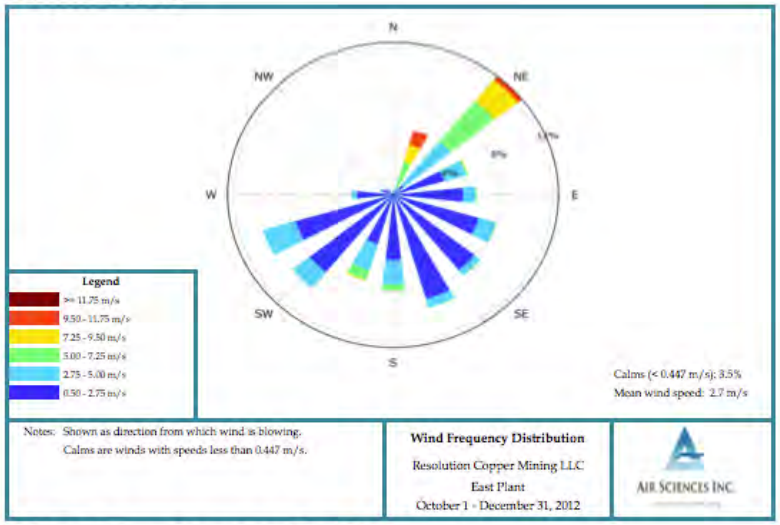
Wind Frequency Table – A two-part table. The left part of the Wind Frequency Table shows the percentage of occurrence of winds for each of the 16 directions that occur in each of the six Wind Speed Class Intervals. The right part shows the percentage of occurrence of winds for each of the 16 directions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

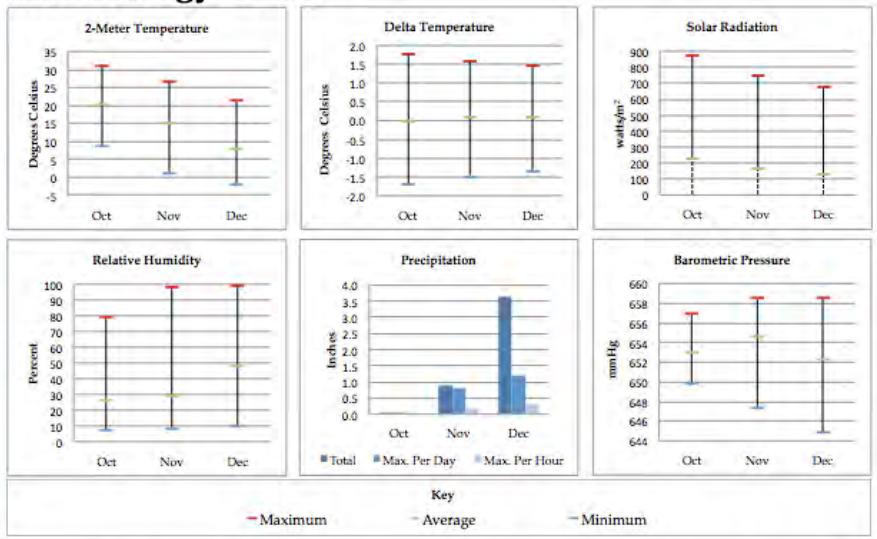
Instantaneous Wind Frequency and Maximum Chart – Graphically summarizes instantaneous (two-second) wind speeds as a percentage of occurrences for each of the nine wind speed intervals and the magnitude, date, and time of the maximum instantaneous wind speed for each month.

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

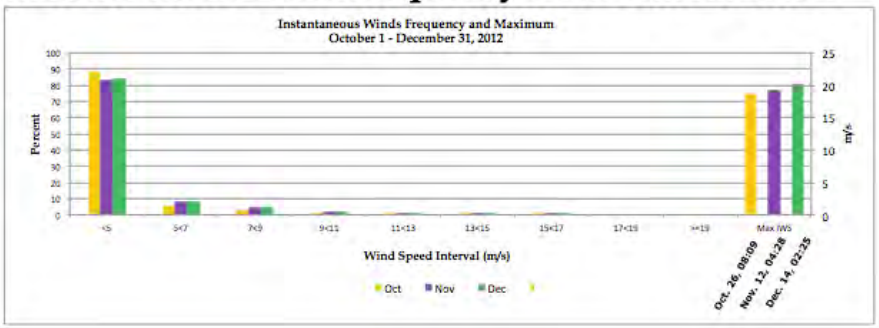
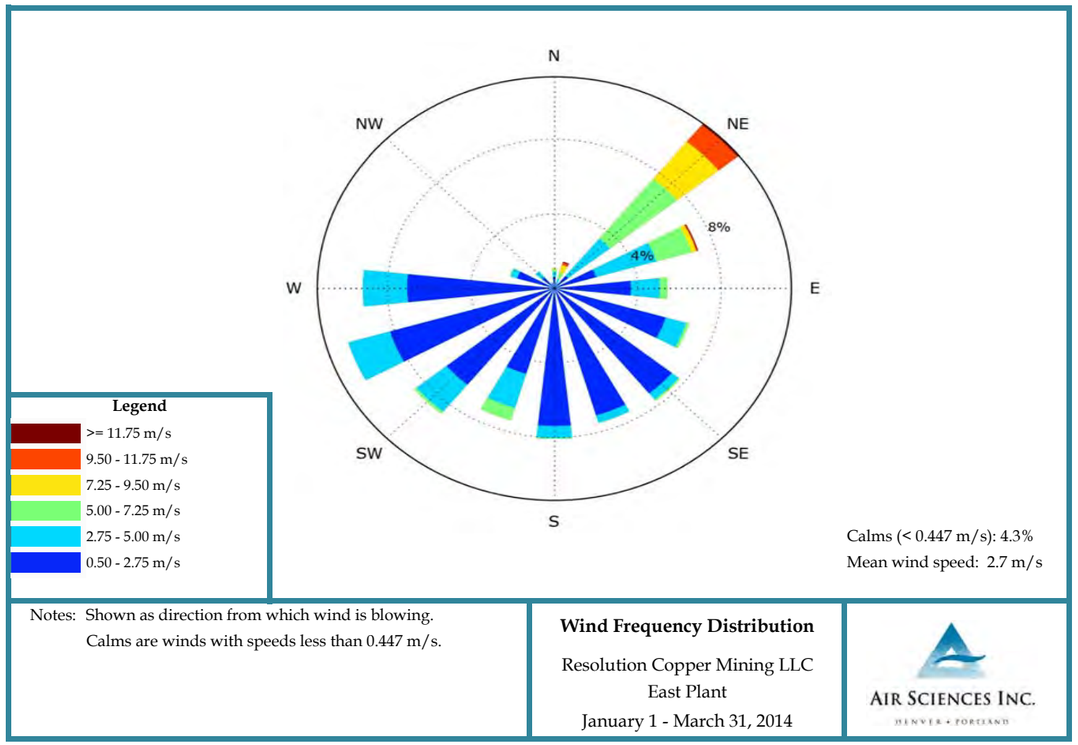
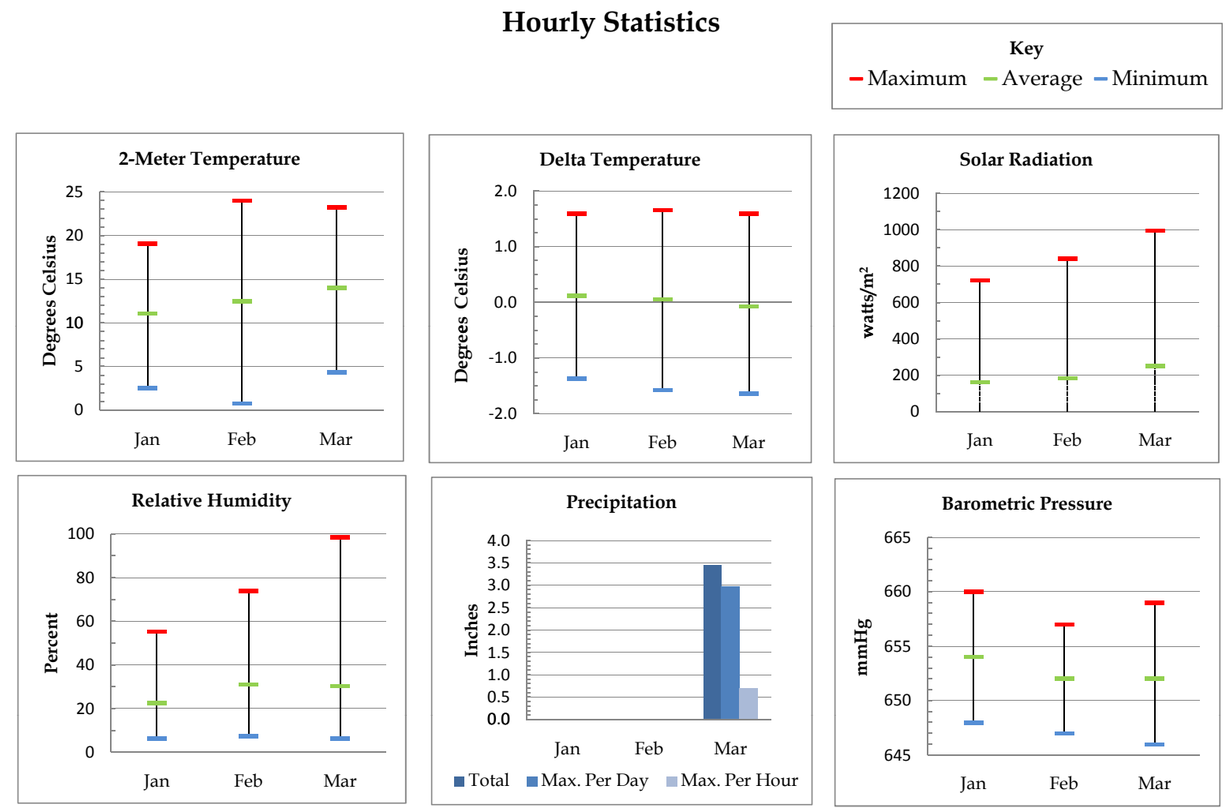


Figure 4: East Plant Meteorological Data Summary

Meteorological Data: January 1 - March 31, 2014



Hourly Statistics



Direction	Speed Class Intervals (m/s) (percent of occurrence) 0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Mean Speed
N	0.2	0.5	0.2	0.1	0.0	0.0	1.1	3.1
NNE	0.1	0.2	0.2	0.2	0.6	0.1	1.5	6.1
NE	0.2	0.6	2.5	3.7	3.2	1.0	11.4	6.3
ENE	0.7	1.5	2.8	1.8	0.3	0.0	7.2	3.9
E	1.5	2.5	1.0	0.3	0.0	0.0	5.4	2.4
ESE	3.0	2.9	0.6	0.1	0.0	0.0	6.7	1.9
SE	4.0	3.2	0.4	0.1	0.0	0.0	7.7	1.6
SSE	5.6	1.7	0.2	0.0	0.0	0.0	7.5	1.2
S	5.5	2.0	0.5	0.0	0.0	0.0	8.1	1.4
SSW	2.8	2.5	1.4	0.7	0.0	0.0	7.4	2.4
SW	2.2	5.2	1.1	0.1	0.0	0.0	8.6	2.2
WSW	1.9	7.0	1.3	0.0	0.0	0.0	10.3	2.2
W	2.5	5.1	1.6	0.0	0.0	0.0	9.2	2.1
WNW	0.7	1.2	0.2	0.0	0.0	0.0	2.2	1.9
NW	0.3	0.6	0.2	0.0	0.0	0.0	1.2	2.2
NNW	0.2	0.1	0.0	0.0	0.0	0.0	0.3	1.7
All	31.6	37.0	14.4	7.3	4.2	1.2	95.7	2.7

D	Stability Class A	B	C	D	E	F	All
N	0.1	0.1	0.2	0.4	0.2	0.1	1.1
N	0.0	0.1	0.2	1.0	0.1	0.2	1.5
N	0.1	0.6	1.8	8.5	0.2	0.3	11.5
E	0.0	0.6	1.4	4.0	0.7	0.6	7.3
E	0.0	0.5	1.5	1.4	0.8	1.4	5.7
E	0.0	0.9	1.7	1.6	0.8	2.0	7.0
S	0.1	1.0	0.6	1.7	1.3	4.0	8.7
S	0.1	0.3	0.1	0.9	1.2	6.0	8.5
S	0.0	0.5	0.6	0.9	0.7	6.1	8.9
S	0.1	0.8	1.9	1.7	0.6	2.5	7.6
S	0.0	2.1	3.0	1.2	0.5	1.8	8.6
W	0.2	2.5	3.3	1.7	0.9	1.9	10.5
W	0.2	0.9	1.2	2.2	1.6	3.2	9.3
W	0.0	0.2	0.3	0.3	0.3	1.1	2.2
N	0.0	0.2	0.2	0.2	0.2	0.3	1.2
N	0.0	0.0	0.0	0.0	0.0	0.2	0.3
A	1.1	11.2	18.0	27.8	10.2	31.7	100.0

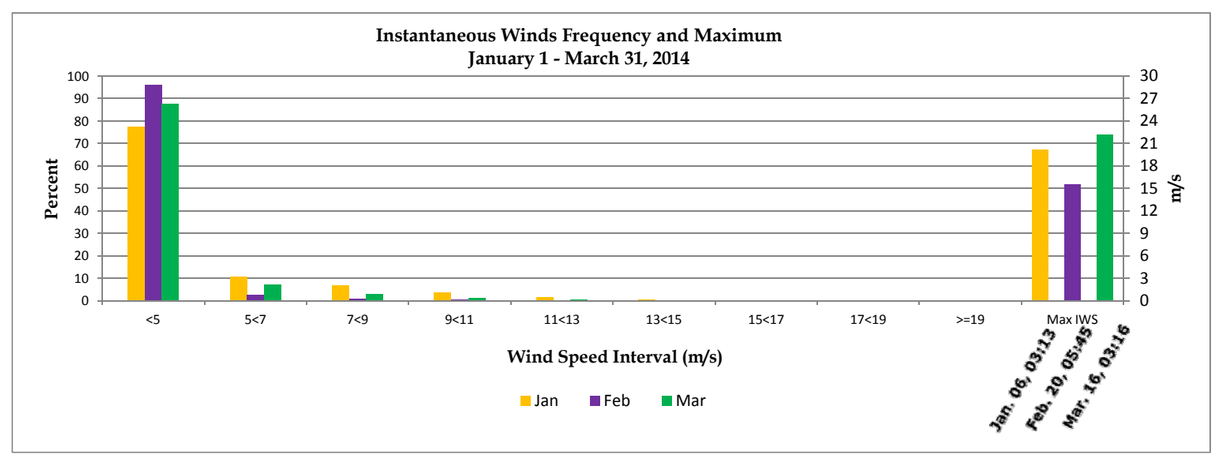
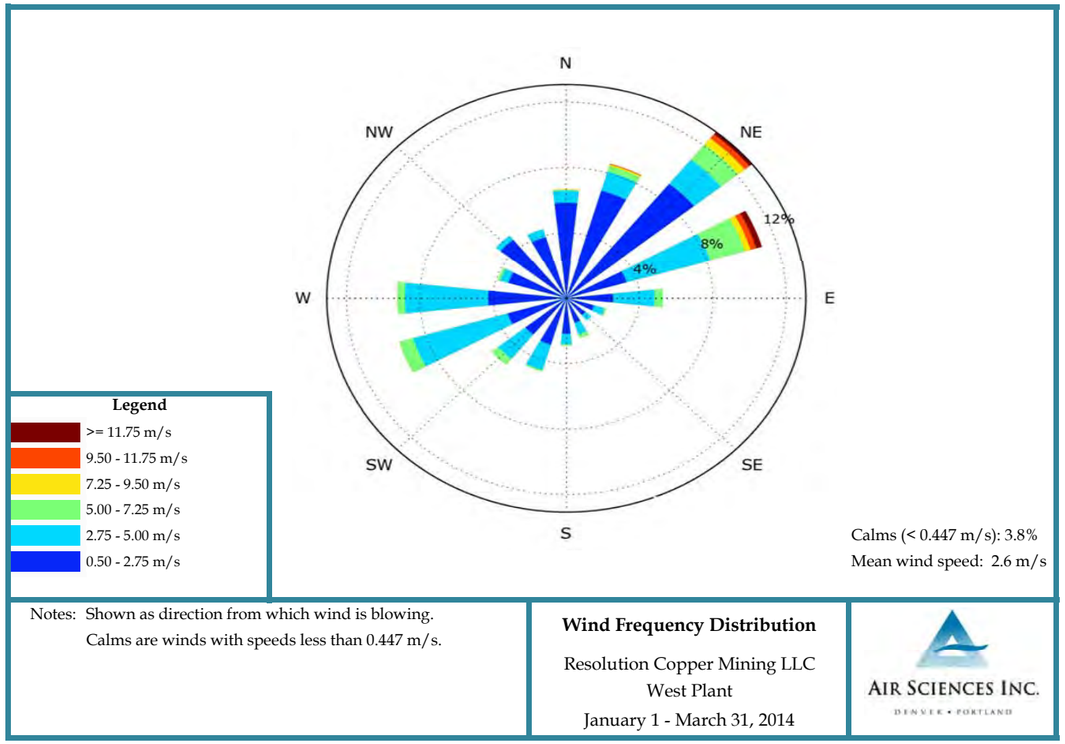


Figure 5: West Plant Meteorological Data Summary

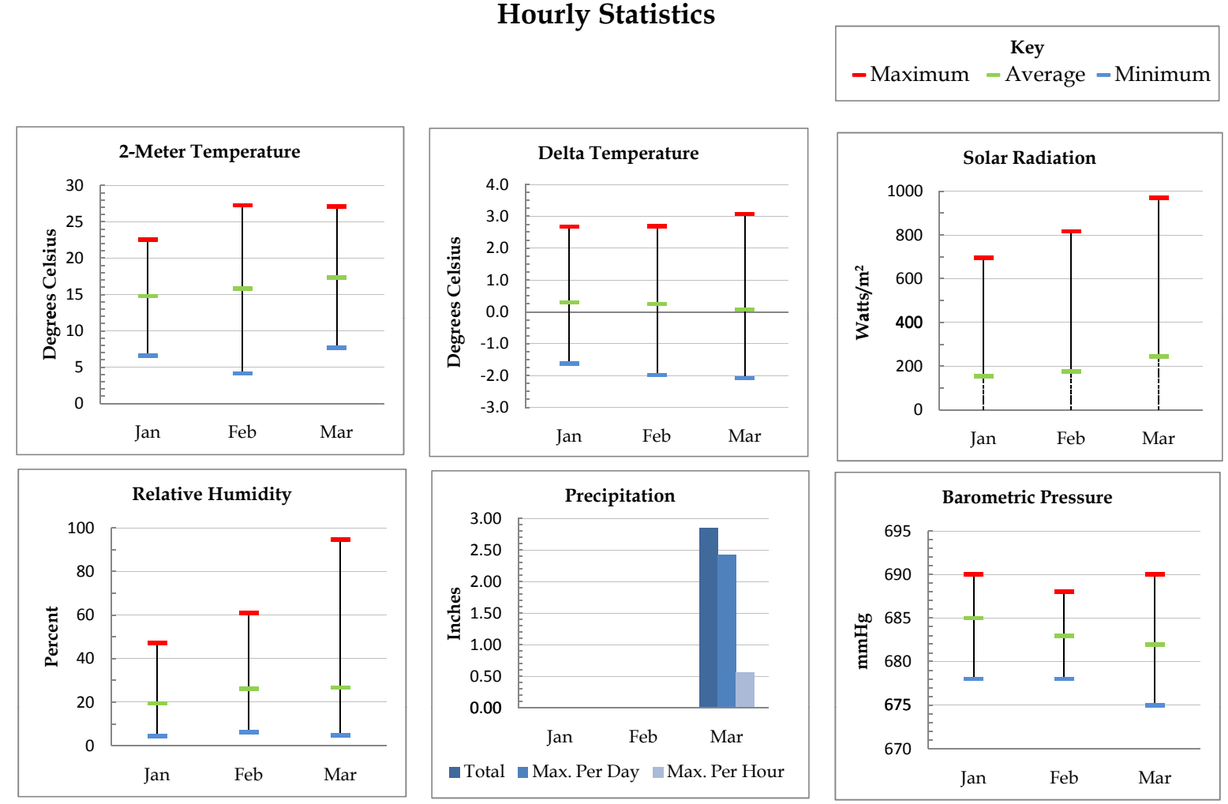
Meteorological Data: January 1 - March 31, 2014

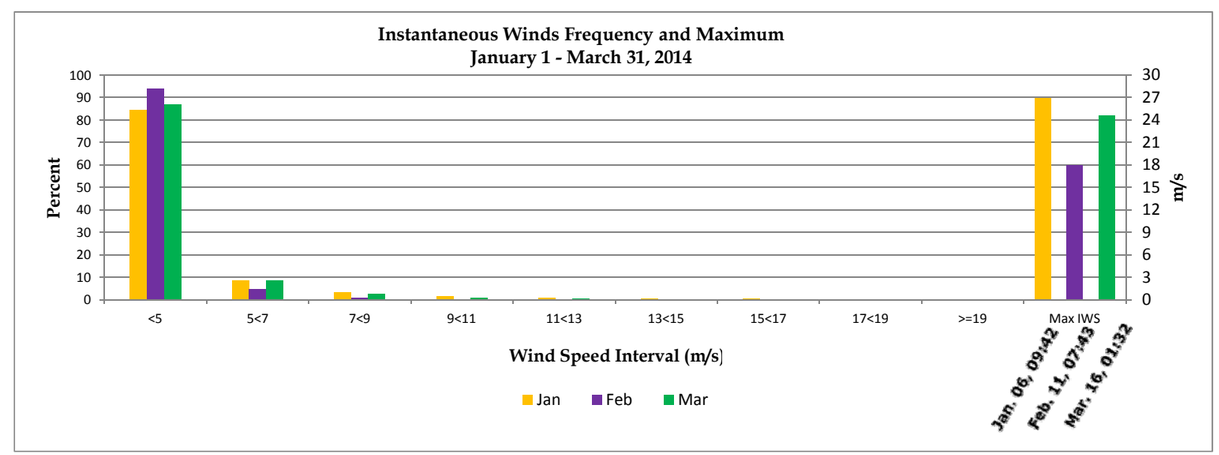


Direction	Speed Class Intervals (m/s) (percent of occurrence) 0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Mean Speed
N	5.0	1.0	0.6	0.0	0.0	0.0	6.7	1.4
NNE	5.3	1.8	1.0	0.3	0.1	0.0	8.6	1.9
NE	4.4	5.0	1.6	1.1	0.6	0.5	13.1	3.0
ENE	1.5	2.4	4.4	1.9	0.5	0.6	11.2	4.1
E	0.7	2.3	1.9	0.5	0.0	0.0	5.3	3.1
ESE	0.4	1.3	0.5	0.1	0.0	0.0	2.3	2.5
SE	0.6	0.9	0.2	0.0	0.0	0.0	1.8	2.1
SSE	0.7	1.0	0.6	0.2	0.0	0.0	2.5	2.6
S	0.9	1.4	0.5	0.1	0.0	0.0	2.9	2.2
SSW	0.9	2.2	1.4	0.1	0.0	0.0	4.7	2.5
SW	0.9	2.5	1.4	0.5	0.0	0.0	5.2	2.8
WSW	0.7	3.4	4.5	0.7	0.0	0.0	9.5	3.2
W	1.5	3.4	3.9	0.4	0.0	0.0	9.2	2.8
WNW	2.0	1.3	0.5	0.1	0.0	0.0	3.9	1.7
NW	3.6	1.1	0.2	0.0	0.0	0.0	4.9	1.3
NNW	3.4	0.5	0.5	0.0	0.0	0.0	4.4	1.3
All	32.5	31.3	23.7	6.1	1.3	1.1	96.2	2.6

	Stability Class D	A	B	C	D	E	F	All
N	0.0	0.1	0.4	0.6	0.8	5.7	7.7
N	0.0	0.2	0.2	1.6	0.8	6.3	9.0
N	0.0	0.1	0.6	4.0	2.5	6.0	13.2
E	0.0	0.1	1.3	6.6	1.6	1.7	11.3
E	0.0	0.2	1.3	2.6	0.6	0.5	5.3
E	0.0	0.2	1.0	0.5	0.2	0.3	2.3
S	0.1	0.3	0.8	0.3	0.2	0.1	1.9
S	0.1	1.0	0.6	0.5	0.1	0.2	2.5
S	0.2	1.3	0.9	0.5	0.1	0.0	2.9
S	0.4	1.7	1.3	1.0	0.2	0.1	4.7
S	0.4	1.6	1.6	1.2	0.4	0.1	5.3
W	0.3	2.0	4.6	1.9	0.3	0.3	9.6
W	0.0	0.8	3.7	3.3	0.6	1.0	9.4
W	0.0	0.1	0.3	0.8	1.3	1.6	4.1
N	0.0	0.0	0.1	0.6	1.3	3.4	5.5
N	0.0	0.1	0.1	0.6	0.9	3.6	5.2
A	1.5	10.1	18.9	26.5	12.1	30.8	100.0

Hourly Statistics





3.2 Meteorological Data Discussion

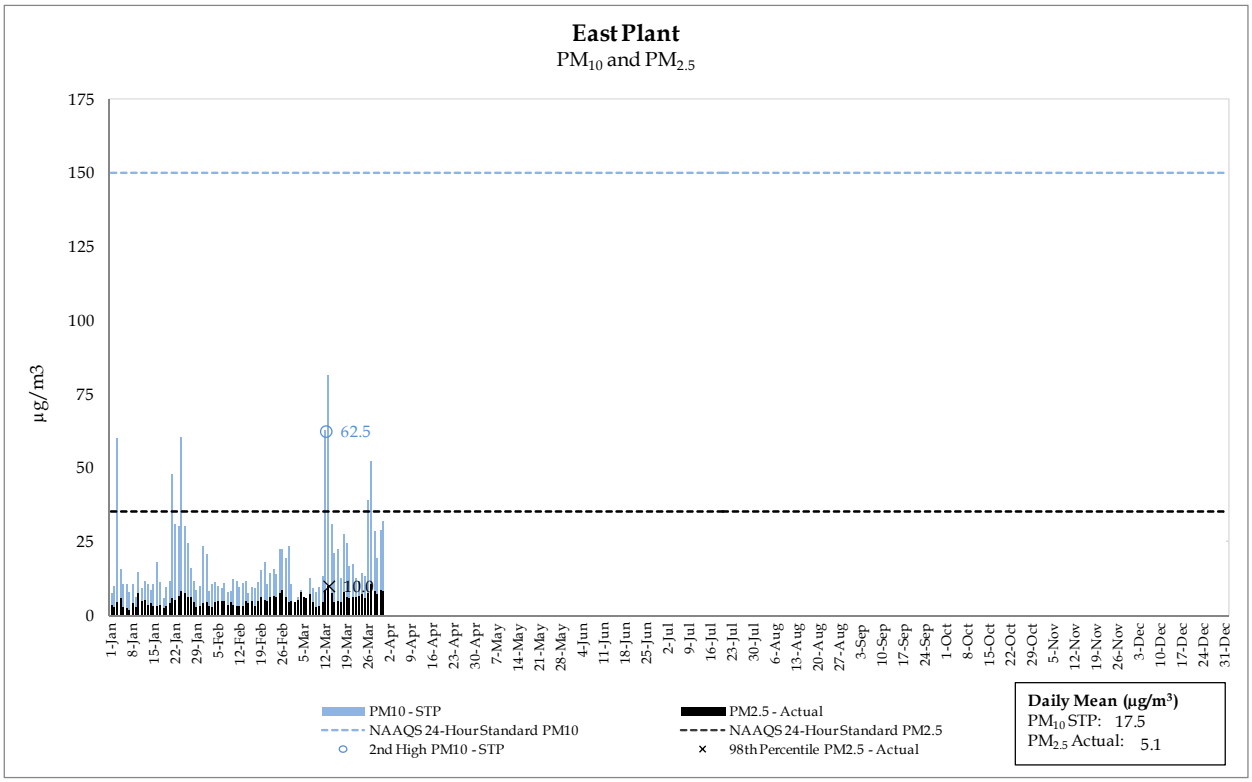
The meteorological data collected at the East and the West Plant sites for the first quarter of 2014 met all data recovery objectives.

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 2014 year-to-date (YTD), 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.

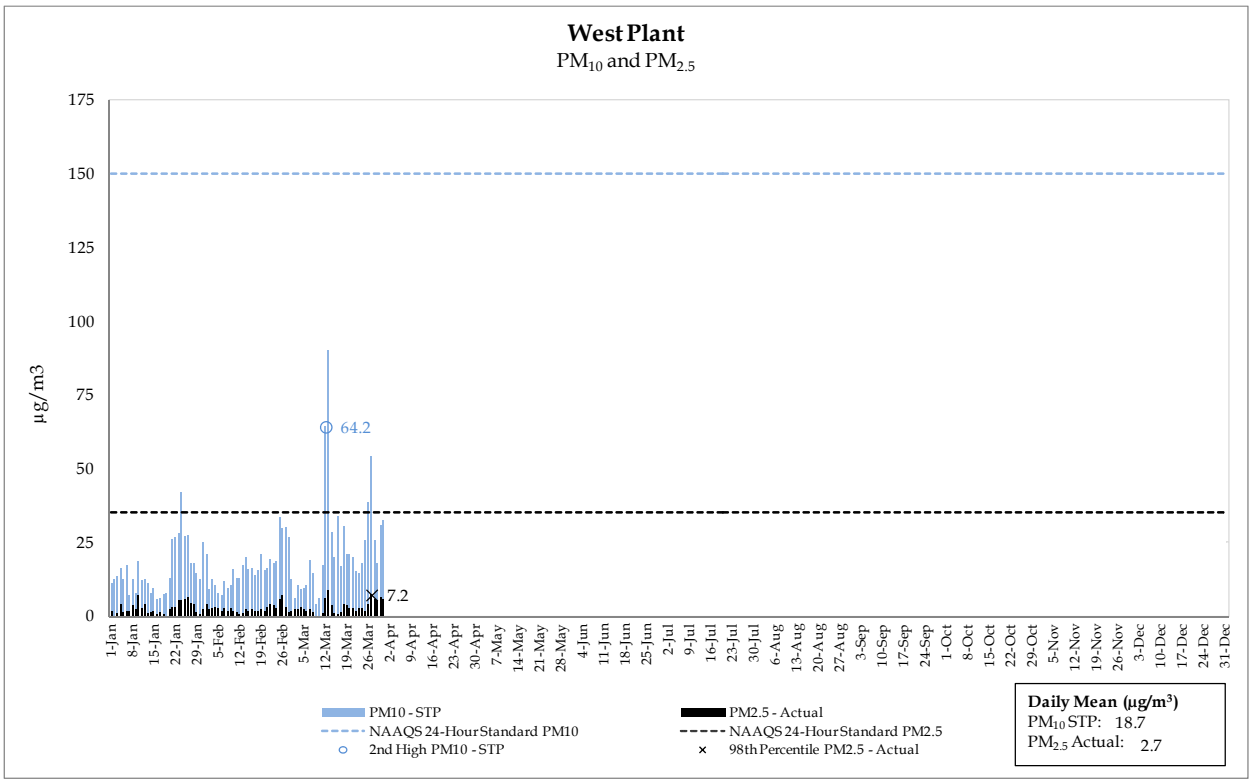
Figure 6. East Plant Particulate Data (YTD)



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 2014 YTD, 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 YTD



4.3 PM Data Discussion

4.3.1 PM_{10}

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

As shown in Figure 6 and Figure 7, the second-high PM_{10} concentrations recorded at the East and West Plants are 62.5 µg/m³ and 64.2 µg/m³, respectively. Both the East and West Plants' second-high values are below the NAAQS of 150 µg/m³.

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

4.3.2 $PM_{2.5}$

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

As shown in Figure 6 and Figure 7, arithmetic mean concentrations for the East and West Plants are 5.1 and 2.7 $\mu g/m^3$, 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 10.0 and 7.2 $\mu g/m^3$, 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 2014 YTD. Figure 8 shows the 98th percentile compared to the one-hour NO_2 standard. Figure 9 shows the mean hourly NO_2 concentration compared with the annual NO_2 standard.

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

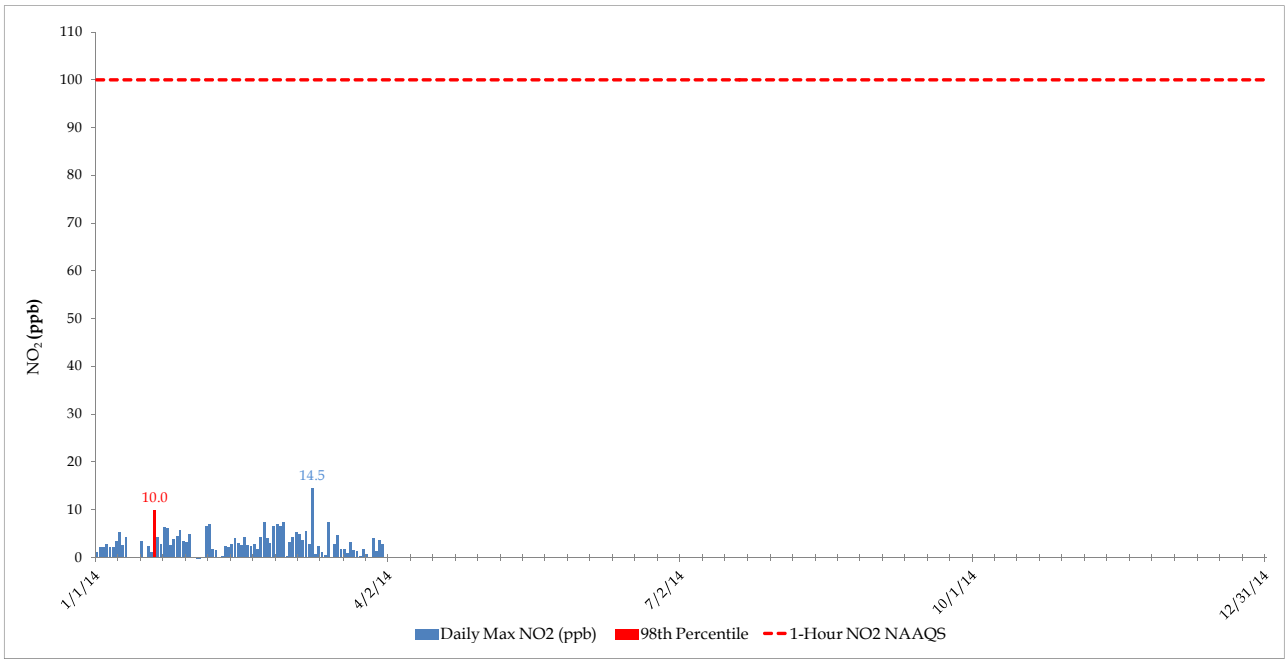
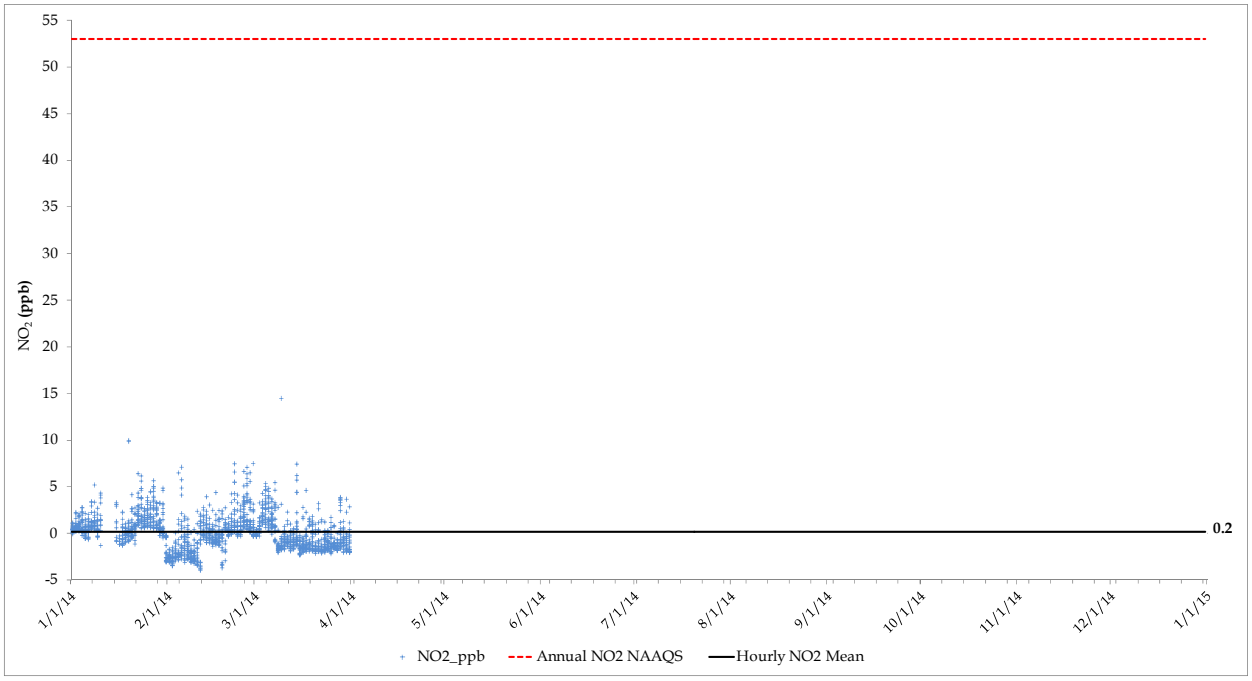


Figure 9. NO_2 Mean Hourly Concentrations YTD



5.2 NO_2 Data Discussion

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

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

As shown in Figure 8, the 98th percentile of the daily maximum 1-hour average NO_2 concentration for 2014 is 10.0 ppb, which is less than the NAAQS 1-hour primary standard of 100. As shown in Figure 9, the 2014 hourly NO_2 average is 0.2 ppb, which is below the annual NO_2 NAAQS of 53 ppb.

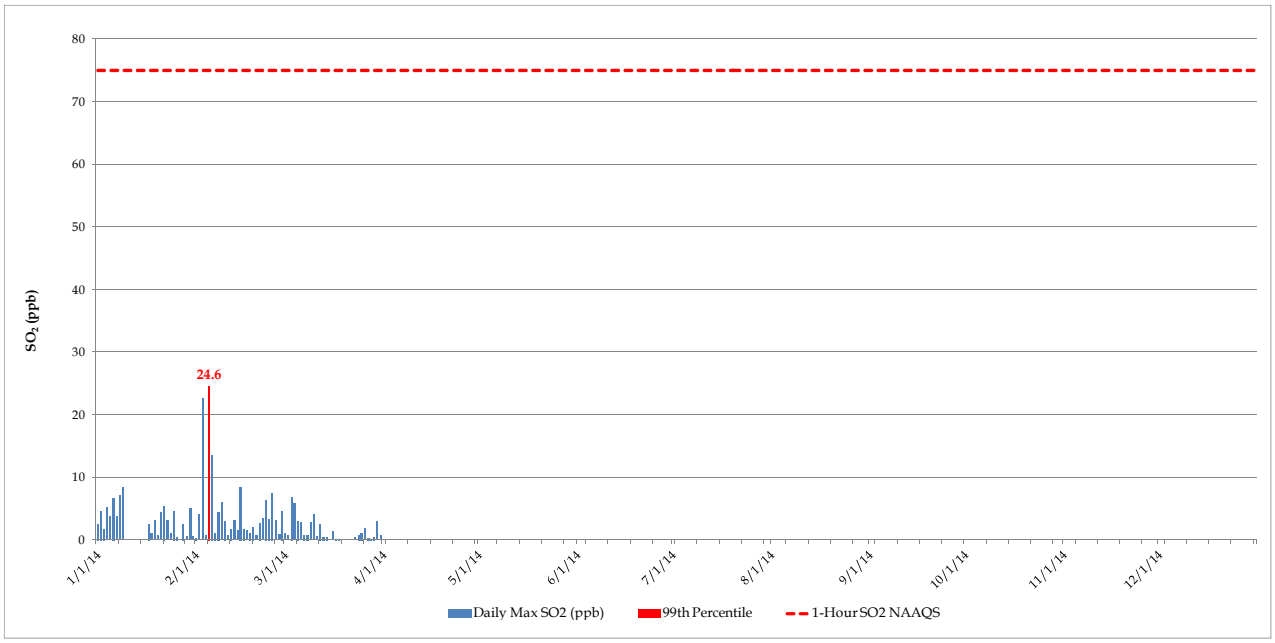
Actual comparison to the NAAQS requires three calendar years of monitoring data, which have not been obtained at this time.

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 2014 YTD, and it shows the 99th percentile (labeled) compared to the one-hour SO_2 standard.

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



6.2 SO_2 Data Discussion

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

As shown in Figure 10, the 99th percentile 1-hour maximum concentration for 2014 is 24.6 ppb, which is below the annual SO_2 NAAQS of 75 ppb.

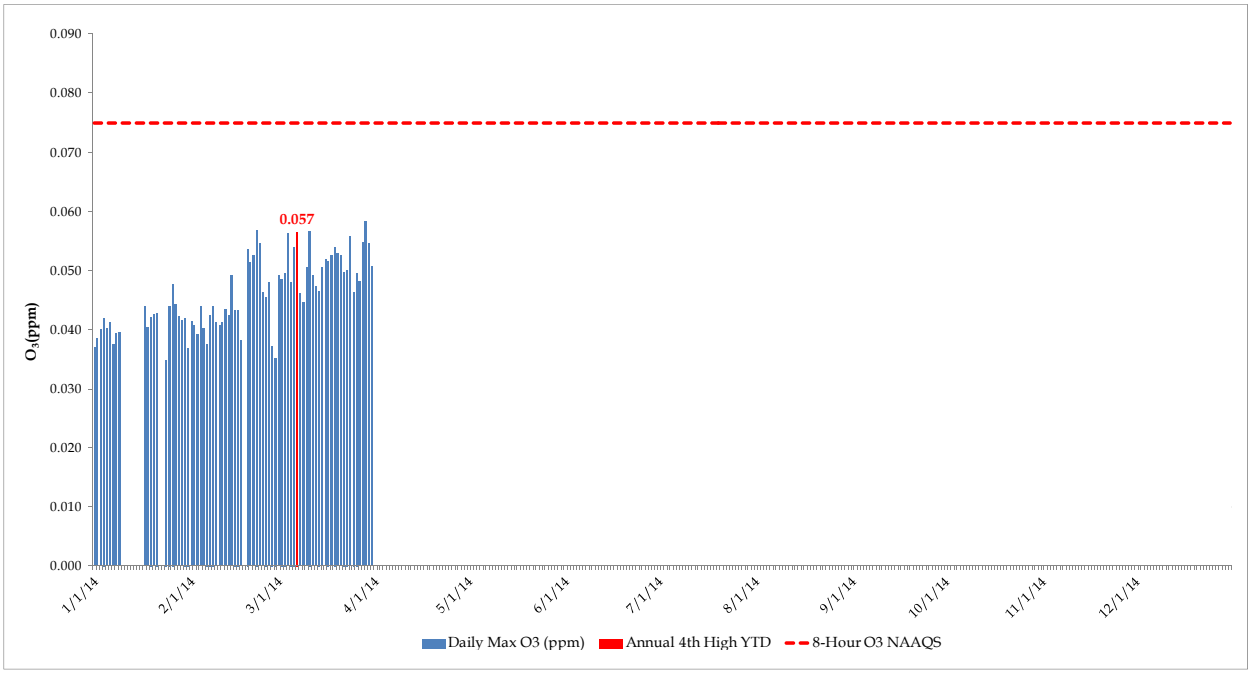
Actual comparison to the NAAQS requires three calendar years of monitoring data, which have not been obtained at this time.

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 2014 YTD, 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, 2014 YTD



7.2 O_3 Data Discussion

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

Figure 11 shows that the averaged fourth-high maximum recorded at the East Plant is 0.057 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
01/01/14 - 03/31/14
(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	8.3	0.0	0.0	0.0	0.0	8.3	1.7
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	8.3	0.0	0.0	0.0	0.0	8.3	2.2
ENE	4.2	0.0	0.0	0.0	0.0	0.0	4.2	1.3
E	0.0	4.2	0.0	0.0	0.0	0.0	4.2	2.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	8.3	0.0	0.0	0.0	0.0	8.3	2.0
SSE	4.2	4.2	0.0	0.0	0.0	0.0	8.3	2.1
S	4.2	0.0	0.0	0.0	0.0	0.0	4.2	1.5
SSW	0.0	8.3	0.0	0.0	0.0	0.0	8.3	1.7
SW	0.0	4.2	0.0	0.0	0.0	0.0	4.2	2.4
WSW	0.0	20.8	0.0	0.0	0.0	0.0	20.8	2.3
W	0.0	16.7	0.0	0.0	0.0	0.0	16.7	2.3
WNW	0.0	4.2	0.0	0.0	0.0	0.0	4.2	1.8
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	12.5	87.5	0.0	0.0	0.0	0.0	100.0	2.0

Calms (< 0.447 m/s): 0.0%
Mean wind speed: 2.0 m/s
Percent Occurence for this Stability Class: 1.1%

Frequency of Winds By Direction and Speed - 10m
Stability Class B
East Plant, Resolution
01/01/14 - 03/31/14
(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	0.4	0.0	0.4	0.0	0.0	0.0	0.8	2.5
NNE	0.0	0.0	0.8	0.0	0.0	0.0	0.8	3.3
NE	0.0	1.2	4.6	0.0	0.0	0.0	5.8	3.8
ENE	0.4	1.7	2.9	0.0	0.0	0.0	5.0	3.0
E	0.8	1.7	1.7	0.0	0.0	0.0	4.1	2.6
ESE	1.7	4.1	2.1	0.0	0.0	0.0	7.9	2.2
SE	1.2	5.8	1.7	0.0	0.0	0.0	8.7	2.3
SSE	0.4	1.7	0.4	0.0	0.0	0.0	2.5	2.3
S	0.0	4.1	0.0	0.0	0.0	0.0	4.1	2.2
SSW	2.1	3.7	1.7	0.0	0.0	0.0	7.5	2.3
SW	0.8	13.3	4.6	0.0	0.0	0.0	18.7	2.6
WSW	1.2	18.3	2.5	0.0	0.0	0.0	22.0	2.4
W	0.4	7.5	0.4	0.0	0.0	0.0	8.3	2.2
WNW	0.0	1.7	0.0	0.0	0.0	0.0	1.7	2.0
NW	0.8	0.4	0.4	0.0	0.0	0.0	1.7	2.2
NNW	0.0	0.0	0.4	0.0	0.0	0.0	0.4	4.0
All	10.4	65.1	24.5	0.0	0.0	0.0	100.0	2.5

Calms (< 0.447 m/s): 0.0%
Mean wind speed: 2.5 m/s
Percent Occurence for this Stability Class: 11.2%

Frequency of Winds By Direction and Speed - 10m
Stability Class C
East Plant, Resolution
01/01/14 - 03/31/14
(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	1.3	0.0	0.0	0.0	0.0	1.3	2.6
NNE	0.0	0.3	0.8	0.0	0.0	0.0	1.0	3.5
NE	0.3	0.8	6.7	2.1	0.0	0.0	9.8	4.2
ENE	0.3	2.3	4.1	1.0	0.0	0.0	7.7	3.6
E	1.8	4.4	1.5	0.5	0.0	0.0	8.2	2.5
ESE	3.6	4.9	0.5	0.3	0.0	0.0	9.3	1.9
SE	1.3	1.5	0.3	0.0	0.0	0.0	3.1	1.8
SSE	0.0	0.5	0.3	0.0	0.0	0.0	0.8	2.7
S	0.5	1.5	1.3	0.0	0.0	0.0	3.3	2.7
SSW	0.3	6.7	3.3	0.3	0.0	0.0	10.5	3.0
SW	0.5	14.1	2.1	0.0	0.0	0.0	16.7	2.5
WSW	0.3	14.9	3.3	0.0	0.0	0.0	18.5	2.5
W	0.0	3.9	2.8	0.0	0.0	0.0	6.7	2.8
WNW	0.0	1.0	0.5	0.0	0.0	0.0	1.5	2.8
NW	0.0	1.0	0.3	0.0	0.0	0.0	1.3	2.8
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All	8.7	59.1	27.8	4.1	0.0	0.0	99.7	2.8

Calms (< 0.447 m/s): 0.3%
Mean wind speed: 2.8 m/s
Percent Occurence for this Stability Class: 18.0%

Frequency of Winds By Direction and Speed - 10m
Stability Class D
East Plant, Resolution
01/01/14 - 03/31/14
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.2	0.2	0.3	0.5	0.2	0.0	1.3	4.9
NNE	0.0	0.2	0.0	0.7	2.2	0.5	3.5	7.9
NE	0.0	0.5	2.8	12.0	11.7	3.5	30.6	7.2
ENE	0.0	1.7	6.0	5.7	1.0	0.2	14.5	4.8
E	0.2	2.5	1.5	0.8	0.2	0.0	5.2	3.5
ESE	1.3	2.8	1.2	0.3	0.0	0.0	5.7	2.6
SE	2.8	2.3	0.5	0.3	0.0	0.0	6.0	1.8
SSE	1.5	1.2	0.3	0.0	0.0	0.0	3.0	1.8
S	1.2	0.8	1.0	0.2	0.0	0.0	3.2	2.6
SSW	0.2	1.3	2.3	2.3	0.0	0.0	6.2	4.1
SW	0.7	2.5	0.7	0.5	0.0	0.0	4.3	2.6
WSW	0.8	3.8	1.5	0.0	0.0	0.0	6.2	2.4
W	0.3	3.8	3.7	0.0	0.0	0.0	7.8	2.9
WNW	0.0	0.5	0.5	0.2	0.0	0.0	1.2	3.4
NW	0.0	0.3	0.5	0.0	0.0	0.0	0.8	3.1
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All	9.2	24.5	22.9	23.5	15.2	4.2	99.5	4.6

Calms (< 0.447 m/s): 0.5%
Mean wind speed: 4.6 m/s
Percent Occurence for this Stability Class: 27.8%

Frequency of Winds By Direction and Speed - 10m
Stability Class E
East Plant, Resolution
01/01/14 - 03/31/14
(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	1.4	0.5	0.0	0.0	0.0	1.8	2.1
NNE	0.0	0.5	0.0	0.5	0.0	0.0	0.9	3.7
NE	0.5	0.9	0.5	0.0	0.0	0.0	1.8	2.3
ENE	2.3	3.2	0.9	0.0	0.0	0.0	6.4	2.0
E	2.3	5.0	0.9	0.0	0.0	0.0	8.2	1.9
ESE	3.2	4.5	0.0	0.0	0.0	0.0	7.7	1.7
SE	4.5	8.2	0.0	0.0	0.0	0.0	12.7	1.7
SSE	6.8	3.2	0.0	0.0	0.0	0.0	10.0	1.3
S	2.3	4.5	0.0	0.0	0.0	0.0	6.8	1.7
SSW	2.7	2.7	0.0	0.0	0.0	0.0	5.5	1.6
SW	2.3	2.7	0.0	0.0	0.0	0.0	5.0	1.6
WSW	2.3	6.4	0.0	0.0	0.0	0.0	8.6	1.8
W	2.7	13.2	0.0	0.0	0.0	0.0	15.9	1.9
WNW	0.0	3.2	0.0	0.0	0.0	0.0	3.2	2.0
NW	0.0	1.8	0.0	0.0	0.0	0.0	1.8	2.1
NNW	0.0	0.5	0.0	0.0	0.0	0.0	0.5	2.4
All	31.8	61.8	2.7	0.5	0.0	0.0	96.8	1.8

Calms (< 0.447 m/s): 3.2%
Mean wind speed: 1.8 m/s
Percent Occurence for this Stability Class: 10.2%

Frequency of Winds By Direction and Speed - 10m
Stability Class F
East Plant, Resolution
01/01/14 - 03/31/14
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.3	0.0	0.0	0.0	0.0	0.0	0.3	1.2
NNE	0.3	0.1	0.0	0.0	0.0	0.0	0.4	1.2
NE	0.4	0.1	0.0	0.0	0.0	0.0	0.6	1.2
ENE	1.2	0.4	0.0	0.0	0.0	0.0	1.6	1.2
E	2.6	1.0	0.0	0.0	0.0	0.0	3.7	1.2
ESE	4.7	1.0	0.0	0.0	0.0	0.0	5.7	1.2
SE	7.6	2.3	0.0	0.0	0.0	0.0	9.9	1.0
SSE	13.9	2.3	0.0	0.0	0.0	0.0	16.2	1.0
S	15.2	1.8	0.0	0.0	0.0	0.0	17.0	0.9
SSW	6.9	0.3	0.0	0.0	0.0	0.0	7.2	0.9
SW	5.1	0.4	0.0	0.0	0.0	0.0	5.6	1.0
WSW	4.1	1.2	0.0	0.0	0.0	0.0	5.3	1.1
W	6.6	3.1	0.0	0.0	0.0	0.0	9.6	1.3
WNW	2.3	1.0	0.0	0.0	0.0	0.0	3.4	1.2
NW	0.6	0.4	0.0	0.0	0.0	0.0	1.0	1.2
NNW	0.6	0.1	0.0	0.0	0.0	0.0	0.7	1.0
All	72.4	15.8	0.0	0.0	0.0	0.0	88.2	1.1

Calms (< 0.447 m/s): 11.8%
Mean wind speed: 1.1 m/s
Percent Occurence for this Stability Class: 31.7%

Frequency of Winds By Direction and Speed - 10m
Stability Class A
West Plant, Resolution
01/01/14 - 03/31/14
(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	6.1	0.0	0.0	0.0	0.0	6.1	1.8
SSE	0.0	9.1	0.0	0.0	0.0	0.0	9.1	1.9
S	3.0	9.1	0.0	0.0	0.0	0.0	12.1	2.0
SSW	3.0	21.2	0.0	0.0	0.0	0.0	24.2	1.7
SW	3.0	21.2	0.0	0.0	0.0	0.0	24.2	1.8
WSW	0.0	21.2	0.0	0.0	0.0	0.0	21.2	1.7
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	3.0	0.0	0.0	0.0	0.0	3.0	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	9.1	90.9	0.0	0.0	0.0	0.0	100.0	1.8

Calms (< 0.447 m/s): 0.0%
Mean wind speed: 1.8 m/s
Percent Occurence for this Stability Class: 1.5%

Frequency of Winds By Direction and Speed - 10m
Stability Class B
West Plant, Resolution
01/01/14 - 03/31/14
(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	0.5	0.0	0.0	0.0	0.9	3.0
NNE	0.0	0.5	1.4	0.0	0.0	0.0	1.8	3.2
NE	0.0	0.5	0.9	0.0	0.0	0.0	1.4	2.7
ENE	0.0	0.5	0.5	0.0	0.0	0.0	0.9	2.8
E	0.5	1.8	0.0	0.0	0.0	0.0	2.3	2.0
ESE	0.0	2.3	0.0	0.0	0.0	0.0	2.3	2.3
SE	0.9	1.4	0.9	0.0	0.0	0.0	3.2	2.6
SSE	3.7	2.3	4.1	0.0	0.0	0.0	10.1	2.4
S	5.5	6.9	0.5	0.0	0.0	0.0	12.8	1.7
SSW	3.2	9.2	4.6	0.0	0.0	0.0	17.0	2.4
SW	3.2	8.7	4.1	0.0	0.0	0.0	16.1	2.3
WSW	1.8	10.6	7.8	0.0	0.0	0.0	20.2	2.8
W	1.8	3.2	3.2	0.0	0.0	0.0	8.3	2.7
WNW	0.5	0.5	0.5	0.0	0.0	0.0	1.4	2.1
NW	0.0	0.5	0.0	0.0	0.0	0.0	0.5	2.4
NNW	0.0	0.0	0.9	0.0	0.0	0.0	0.9	4.3
All	21.1	49.1	29.8	0.0	0.0	0.0	100.0	2.4

Calms (< 0.447 m/s): 0.0%
Mean wind speed: 2.4 m/s
Percent Occurence for this Stability Class: 10.1%

Frequency of Winds By Direction and Speed - 10m
Stability Class C
West Plant, Resolution
01/01/14 - 03/31/14
(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	1.0	1.2	0.0	0.0	0.0	2.2	3.3
NNE	0.0	0.2	0.7	0.0	0.0	0.0	1.0	3.7
NE	0.2	1.0	1.7	0.0	0.0	0.0	2.9	3.5
ENE	0.2	1.7	5.1	0.0	0.0	0.0	7.1	3.3
E	0.2	2.9	3.9	0.0	0.0	0.0	7.1	3.2
ESE	0.2	3.2	1.7	0.2	0.0	0.0	5.4	2.8
SE	1.2	2.5	0.2	0.0	0.0	0.0	3.9	2.0
SSE	0.7	2.2	0.2	0.2	0.0	0.0	3.4	2.3
S	1.5	2.2	1.0	0.0	0.0	0.0	4.7	2.1
SSW	1.7	3.4	1.7	0.0	0.0	0.0	6.9	2.3
SW	0.5	4.7	2.7	0.7	0.0	0.0	8.6	3.2
WSW	1.0	6.9	15.4	1.0	0.0	0.0	24.3	3.4
W	0.5	6.4	12.3	0.2	0.0	0.0	19.4	3.2
WNW	0.0	0.2	1.0	0.2	0.0	0.0	1.5	4.1
NW	0.2	0.5	0.0	0.0	0.0	0.0	0.7	1.8
NNW	0.0	0.0	0.7	0.0	0.0	0.0	0.7	3.8
All	8.3	39.0	49.8	2.7	0.0	0.0	99.8	3.1

Calms (< 0.447 m/s): 0.2%
Mean wind speed: 3.1 m/s
Percent Occurence for this Stability Class: 18.9%

Frequency of Winds By Direction and Speed - 10m
Stability Class D
West Plant, Resolution
01/01/14 - 03/31/14
(percent of occurrence)

	Speed Class Intervals (m/s)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.3	0.5	1.2	0.2	0.2	0.0	2.4	3.5
NNE	0.5	0.9	2.8	1.0	0.5	0.2	5.9	4.5
NE	0.3	3.3	3.5	3.8	2.3	1.7	15.0	5.7
ENE	0.5	3.1	10.0	7.0	1.9	2.3	24.8	5.3
E	0.5	3.3	4.2	1.7	0.0	0.0	9.8	3.6
ESE	0.5	0.7	0.5	0.2	0.0	0.0	1.9	2.8
SE	0.2	0.7	0.3	0.0	0.0	0.0	1.2	2.8
SSE	0.2	0.3	0.5	0.7	0.0	0.0	1.7	4.2
S	0.0	0.5	0.9	0.3	0.0	0.0	1.7	3.8
SSW	0.3	0.7	2.3	0.3	0.0	0.0	3.7	3.6
SW	0.2	0.7	1.9	1.2	0.0	0.0	4.0	4.1
WSW	0.2	1.9	3.0	2.1	0.2	0.0	7.3	4.1
W	1.2	5.1	4.7	1.4	0.0	0.0	12.4	3.1
WNW	0.7	0.9	0.9	0.3	0.0	0.0	2.8	2.8
NW	0.7	0.9	0.9	0.0	0.0	0.0	2.4	2.6
NNW	0.2	1.0	0.9	0.0	0.0	0.0	2.1	2.8
All	6.6	24.7	38.5	20.5	5.1	4.2	99.5	4.3

Calms (< 0.447 m/s): 0.5%
Mean wind speed: 4.3 m/s
Percent Occurence for this Stability Class: 26.5%

Frequency of Winds By Direction and Speed - 10m
Stability Class E
West Plant, Resolution
01/01/14 - 03/31/14
(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	4.6	1.9	0.4	0.0	0.0	0.0	6.9	1.5
NNE	1.5	5.0	0.0	0.4	0.0	0.0	6.9	2.1
NE	2.3	16.0	1.9	0.8	0.0	0.0	21.0	2.4
ENE	0.8	6.5	5.7	0.0	0.0	0.0	13.0	2.9
E	0.8	4.6	0.0	0.0	0.0	0.0	5.3	2.2
ESE	0.0	1.9	0.0	0.0	0.0	0.0	1.9	2.1
SE	1.1	0.4	0.0	0.0	0.0	0.0	1.5	1.3
SSE	0.0	0.4	0.4	0.0	0.0	0.0	0.8	2.7
S	0.4	0.4	0.0	0.0	0.0	0.0	0.8	1.7
SSW	0.8	0.8	0.4	0.0	0.0	0.0	1.9	1.9
SW	2.3	1.1	0.0	0.0	0.0	0.0	3.4	1.3
WSW	0.8	1.5	0.4	0.0	0.0	0.0	2.7	1.6
W	0.8	4.2	0.0	0.0	0.0	0.0	5.0	1.8
WNW	5.0	5.7	0.0	0.0	0.0	0.0	10.7	1.5
NW	6.5	4.2	0.0	0.0	0.0	0.0	10.7	1.3
NNW	6.5	0.8	0.0	0.0	0.0	0.0	7.3	1.0
All	34.0	55.3	9.2	1.1	0.0	0.0	99.6	1.9

Calms (< 0.447 m/s): 0.4%
Mean wind speed: 1.9 m/s
Percent Occurence for this Stability Class: 12.1%

Frequency of Winds By Direction and Speed - 10m
Stability Class F
West Plant, Resolution
01/01/14 - 03/31/14
(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	14.0	1.2	0.0	0.0	0.0	0.0	15.2	0.9
NNE	16.1	2.7	0.0	0.0	0.0	0.0	18.8	1.1
NE	12.8	6.2	0.0	0.0	0.0	0.0	19.0	1.3
ENE	3.9	1.2	0.0	0.0	0.0	0.0	5.1	1.2
E	1.2	0.3	0.0	0.0	0.0	0.0	1.5	1.2
ESE	0.6	0.3	0.0	0.0	0.0	0.0	0.9	1.2
SE	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.9
SSE	0.5	0.2	0.0	0.0	0.0	0.0	0.6	1.2
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.2	0.2	0.0	0.0	0.0	0.0	0.3	1.2
SW	0.3	0.2	0.0	0.0	0.0	0.0	0.5	1.4
WSW	0.8	0.2	0.0	0.0	0.0	0.0	0.9	0.8
W	2.7	0.0	0.0	0.0	0.0	0.0	2.7	0.9
WNW	3.9	0.6	0.0	0.0	0.0	0.0	4.5	0.9
NW	8.4	0.6	0.0	0.0	0.0	0.0	9.0	0.9
NNW	8.4	0.5	0.0	0.0	0.0	0.0	8.9	0.9
All	74.1	14.2	0.0	0.0	0.0	0.0	88.3	1.1

Calms (< 0.447 m/s): 11.7%
Mean wind speed: 1.1 m/s
Percent Occurence for this Stability Class: 30.8%

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

Average Frequency Distribution of Wind Speeds - 10m
Resolution - East Plant
Jan-14

	Wind Speed Interval (percent)									Max Gust	Time of
Day	<5	5 <7	7 <9	9 <11	11 <13	13 <15	15 <17	17 <19	>19	(m/s)	Gust
1	86.80	7.73	3.97	1.33	0.17	0.00	0.00	0.00	0.00	13.10	23:48
2	49.03	26.00	18.07	6.47	0.43	0.00	0.00	0.00	0.00	13.10	0:00
3	70.77	20.10	7.97	1.13	0.03	0.00	0.00	0.00	0.00	12.00	4:56
4	99.87	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.84	13:53
5	82.17	13.00	3.67	0.90	0.23	0.03	0.00	0.00	0.00	14.10	23:25
6	13.77	22.90	25.60	19.80	11.93	4.63	1.20	0.20	0.00	20.17	3:13
7	63.20	20.67	12.13	3.70	0.30	0.00	0.00	0.00	0.00	13.20	1:07
8	99.97	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.58	15:12
9	99.97	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.79	16:27
10	98.93	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.32	15:56
11	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.97	14:19
12	95.50	3.47	0.87	0.17	0.00	0.00	0.00	0.00	0.00	11.30	23:45
13	73.23	14.97	7.90	3.20	0.70	0.03	0.00	0.00	0.00	14.40	3:04
14	**	**	**	**	**	**	**	**	**	**	**
15	63.87	20.83	11.17	3.73	0.37	0.03	0.00	0.00	0.00	13.90	10:29
16	37.30	22.30	21.43	11.97	5.17	1.70	0.23	0.00	0.00	17.80	22:01
17	42.27	17.30	16.30	12.90	7.87	2.87	0.50	0.03	0.00	17.60	0:28
18	76.70	19.70	3.53	0.07	0.00	0.00	0.00	0.00	0.00	10.10	10:38
19	65.67	24.43	8.93	0.97	0.00	0.00	0.00	0.00	0.00	11.80	7:16
20	98.23	1.63	0.17	0.00	0.00	0.00	0.00	0.00	0.00	9.01	23:59
21	49.07	16.43	19.17	12.67	2.60	0.10	0.00	0.00	0.00	14.50	0:35
22	90.30	8.97	0.73	0.00	0.00	0.00	0.00	0.00	0.00	9.98	6:32
23	83.77	7.40	6.07	2.47	0.30	0.00	0.00	0.00	0.00	13.30	21:42
24	22.90	18.37	23.17	21.87	11.10	2.40	0.17	0.00	0.00	16.40	4:43
25	83.90	5.83	6.77	3.17	0.30	0.00	0.00	0.00	0.00	13.10	2:33
26	99.10	0.83	0.07	0.00	0.00	0.00	0.00	0.00	0.00	9.06	13:59
27	98.37	1.63	0.03	0.00	0.00	0.00	0.00	0.00	0.00	7.73	16:30
28	97.63	2.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.63	12:14
29	98.90	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.17	10:17
30	93.60	5.60	0.77	0.03	0.00	0.00	0.00	0.00	0.00	10.30	23:46
31	86.30	9.97	2.97	0.60	0.07	0.00	0.00	0.00	0.00	13.50	9:04
All	77.37	10.49	6.71	3.57	1.39	0.39	0.07	0.01	0.00	20.17	3:13

** Indicates Invalid Data

Average Frequency Distribution of Wind Speeds - 10m
Resolution - East Plant
Feb-14

	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	98.97	0.97	0.07	0.00	0.00	0.00	0.00	0.00	0.00	10.40	14:42
2	99.00	0.93	0.07	0.00	0.00	0.00	0.00	0.00	0.00	8.35	14:42
3	96.60	2.97	0.40	0.03	0.00	0.00	0.00	0.00	0.00	11.30	18:35
4	97.43	2.27	0.30	0.03	0.00	0.00	0.00	0.00	0.00	10.70	14:37
5	99.93	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.99	12:12
6	97.63	2.20	0.17	0.00	0.00	0.00	0.00	0.00	0.00	8.50	9:44
7	99.30	0.67	0.03	0.00	0.00	0.00	0.00	0.00	0.00	7.47	15:53
8	99.80	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.14	14:09
9	99.67	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.12	13:26
10	97.53	2.20	0.23	0.03	0.00	0.00	0.00	0.00	0.00	10.20	12:47
11	66.50	11.87	11.60	7.27	2.50	0.27	0.00	0.00	0.00	15.40	6:38
12	89.27	8.70	1.57	0.43	0.03	0.00	0.00	0.00	0.00	12.20	7:37
13	97.77	2.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.42	16:48
14	97.03	2.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.32	16:59
15	99.80	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.12	15:05
16	99.50	0.47	0.03	0.00	0.00	0.00	0.00	0.00	0.00	8.19	14:20
17	95.90	4.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	9.22	16:40
18	99.63	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.17	15:08
19	97.40	2.40	0.20	0.00	0.00	0.00	0.00	0.00	0.00	9.06	13:51
20	78.10	13.23	6.17	1.87	0.50	0.10	0.00	0.00	0.00	15.56	5:45
21	99.97	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.84	15:50
22	99.60	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.07	14:06
23	99.23	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.32	13:18
24	99.53	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.71	15:52
25	99.93	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.37	14:04
26	99.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.89	13:57
27	94.87	3.90	1.00	0.20	0.03	0.00	0.00	0.00	0.00	14.00	14:57
28	92.43	6.47	0.97	0.13	0.00	0.00	0.00	0.00	0.00	11.10	14:15
All	96.12	2.58	0.82	0.36	0.11	0.01	0.00	0.00	0.00	15.56	5:45

Average Frequency Distribution of Wind Speeds - 10m
Resolution - East Plant
Mar-14

	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	49.43	30.63	13.57	4.53	1.30	0.40	0.07	0.00	0.00	19.90	11:03
2	96.37	2.97	0.47	0.17	0.03	0.00	0.00	0.00	0.00	13.60	0:06
3	97.03	2.93	0.03	0.00	0.00	0.00	0.00	0.00	0.00	7.63	19:13
4	99.60	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	15:45
5	89.97	8.13	1.80	0.13	0.00	0.00	0.00	0.00	0.00	10.00	8:31
6	99.30	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.76	11:01
7	96.73	2.90	0.40	0.00	0.00	0.00	0.00	0.00	0.00	9.32	16:22
8	23.43	25.13	26.57	16.87	6.53	1.27	0.17	0.00	0.00	17.50	7:54
9	65.27	18.03	10.63	3.80	1.47	0.63	0.17	0.00	0.00	17.50	9:09
10	97.37	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.14	16:45
11	98.13	1.73	0.13	0.00	0.00	0.00	0.00	0.00	0.00	9.37	15:58
12	70.97	22.20	6.17	0.63	0.00	0.00	0.00	0.00	0.00	11.50	10:51
13	66.53	24.07	8.93	0.47	0.00	0.00	0.00	0.00	0.00	10.30	6:07
14	93.00	4.07	1.90	0.77	0.27	0.03	0.00	0.00	0.00	14.60	14:54
15	75.33	11.87	6.90	3.77	1.63	0.43	0.07	0.00	0.00	16.50	23:41
16	69.90	10.57	4.80	4.67	4.23	3.03	1.73	0.83	0.27	22.17	3:16
17	92.93	5.07	1.63	0.37	0.03	0.00	0.00	0.00	0.00	13.70	15:47
18	89.73	6.70	3.00	0.57	0.00	0.00	0.00	0.00	0.00	11.30	9:06
19	96.83	3.13	0.03	0.00	0.00	0.00	0.00	0.00	0.00	8.19	8:23
20	99.23	0.77	0.03	0.00	0.00	0.00	0.00	0.00	0.00	8.14	15:47
21	97.90	2.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	8.55	13:30
22	99.20	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.37	15:34
23	99.30	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.91	18:24
24	98.87	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.27	15:43
25	95.70	3.20	0.60	0.20	0.17	0.10	0.03	0.00	0.00	16.90	17:21
26	80.20	13.07	4.83	1.57	0.27	0.07	0.00	0.00	0.00	15.50	15:00
27	93.43	5.63	0.87	0.03	0.00	0.00	0.00	0.00	0.00	11.90	16:14
28	97.80	2.07	0.10	0.00	0.00	0.00	0.00	0.00	0.00	9.06	15:41
29	99.27	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.45	15:54
30	96.17	3.17	0.57	0.03	0.00	0.00	0.00	0.00	0.00	11.40	16:15
31	92.07	5.30	1.87	0.67	0.07	0.00	0.00	0.00	0.00	14.10	16:25
All	87.65	7.18	3.09	1.27	0.52	0.19	0.07	0.03	0.01	22.17	3:16

Average Frequency Distribution of Wind Speeds - 10m
Resolution - West Plant
Jan-14

	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	89.07	3.77	3.33	2.47	1.17	0.20	0.00	0.00	0.00	16.10	22:43
2	53.93	23.43	13.90	5.93	2.07	0.57	0.13	0.00	0.00	18.20	8:58
3	80.33	15.00	4.30	0.37	0.03	0.00	0.00	0.00	0.00	12.30	1:55
4	99.97	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.32	23:56
5	92.80	4.77	1.07	1.07	0.27	0.00	0.00	0.00	0.00	14.80	21:03
6	50.17	12.83	5.63	3.90	4.50	5.80	7.00	5.87	4.30	26.88	9:42
7	73.20	17.73	7.37	1.67	0.07	0.00	0.00	0.00	0.00	13.60	0:36
8	95.63	3.87	0.50	0.00	0.00	0.00	0.00	0.00	0.00	8.91	6:51
9	91.90	5.53	2.23	0.33	0.00	0.00	0.00	0.00	0.00	10.30	7:54
10	99.57	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.55	15:10
11	93.37	5.93	0.70	0.00	0.00	0.00	0.00	0.00	0.00	8.65	5:21
12	99.43	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.30	12:57
13	**	**	**	**	**	**	**	**	**	**	**
14	89.17	8.50	1.87	0.40	0.10	0.00	0.00	0.00	0.00	14.10	11:48
15	74.97	14.70	7.50	2.30	0.53	0.03	0.00	0.00	0.00	13.60	3:40
16	81.33	10.37	4.03	2.60	1.10	0.47	0.07	0.00	0.00	18.50	7:06
17	79.27	11.23	5.47	2.87	0.93	0.20	0.00	0.00	0.00	16.30	1:26
18	82.03	12.83	3.97	1.13	0.07	0.00	0.00	0.00	0.00	12.00	10:40
19	76.07	15.70	5.70	1.83	0.57	0.10	0.00	0.00	0.00	16.10	7:13
20	92.63	6.43	0.93	0.00	0.00	0.00	0.00	0.00	0.00	9.11	7:45
21	77.47	15.97	4.73	1.30	0.37	0.10	0.00	0.00	0.00	16.30	7:56
22	89.47	9.77	0.73	0.00	0.00	0.00	0.00	0.00	0.00	10.20	0:15
23	80.80	7.33	5.27	3.70	2.00	0.77	0.17	0.00	0.00	19.20	22:57
24	32.93	12.80	10.87	13.57	14.70	10.23	4.10	0.67	0.03	20.40	8:57
25	91.53	6.67	1.70	0.07	0.00	0.00	0.00	0.00	0.00	11.40	4:49
26	98.77	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.96	14:37
27	96.53	3.40	0.07	0.00	0.00	0.00	0.00	0.00	0.00	7.89	15:52
28	96.17	3.63	0.20	0.00	0.00	0.00	0.00	0.00	0.00	8.45	12:46
29	98.43	1.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	8.96	4:38
30	97.03	2.97	0.03	0.00	0.00	0.00	0.00	0.00	0.00	8.04	7:13
31	80.53	15.17	3.93	0.33	0.00	0.00	0.00	0.00	0.00	11.40	14:09
All	84.48	8.47	3.20	1.53	0.95	0.62	0.38	0.22	0.14	26.88	9:42

** Indicates Invalid Data

Average Frequency Distribution of Wind Speeds - 10m
Resolution - West Plant
Feb-14

	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	95.80	4.07	0.17	0.00	0.00	0.00	0.00	0.00	0.00	8.35	13:37
2	97.13	2.73	0.10	0.00	0.00	0.00	0.00	0.00	0.00	8.19	13:28
3	90.70	8.53	0.73	0.03	0.00	0.00	0.00	0.00	0.00	9.78	15:35
4	95.93	3.93	0.13	0.00	0.00	0.00	0.00	0.00	0.00	8.35	15:14
5	97.00	2.77	0.20	0.00	0.00	0.00	0.00	0.00	0.00	9.01	7:55
6	92.80	7.03	0.13	0.00	0.00	0.00	0.00	0.00	0.00	8.35	6:06
7	97.50	2.47	0.07	0.00	0.00	0.00	0.00	0.00	0.00	8.24	14:54
8	98.63	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.12	13:37
9	97.80	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.66	14:07
10	94.23	5.57	0.23	0.00	0.00	0.00	0.00	0.00	0.00	8.40	13:39
11	73.10	10.10	6.00	5.90	3.43	1.17	0.27	0.00	0.00	17.92	7:43
12	89.13	8.27	2.40	0.20	0.00	0.00	0.00	0.00	0.00	10.60	8:54
13	99.70	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.25	15:45
14	99.37	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.20	15:14
15	98.40	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.45	8:58
16	97.87	2.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	8.70	14:37
17	94.07	5.73	0.20	0.00	0.00	0.00	0.00	0.00	0.00	9.16	11:16
18	97.57	2.37	0.07	0.00	0.00	0.00	0.00	0.00	0.00	8.35	14:59
19	92.97	6.70	0.33	0.00	0.00	0.00	0.00	0.00	0.00	8.70	15:03
20	88.57	8.93	2.23	0.23	0.03	0.00	0.00	0.00	0.00	12.60	5:44
21	96.17	3.67	0.17	0.00	0.00	0.00	0.00	0.00	0.00	8.50	9:23
22	98.73	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.32	12:36
23	96.80	3.13	0.07	0.00	0.00	0.00	0.00	0.00	0.00	8.24	13:18
24	91.37	8.17	0.47	0.00	0.00	0.00	0.00	0.00	0.00	8.91	7:11
25	99.70	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.89	13:47
26	97.67	2.27	0.07	0.00	0.00	0.00	0.00	0.00	0.00	7.89	13:55
27	83.23	12.00	4.30	0.47	0.00	0.00	0.00	0.00	0.00	11.90	17:01
28	81.00	15.13	3.60	0.20	0.00	0.00	0.00	0.00	0.00	10.90	7:33
All	94.03	4.76	0.78	0.25	0.12	0.04	0.01	0.00	0.00	17.92	7:43

Average Frequency Distribution of Wind Speeds - 10m
Resolution - West Plant
Mar-14

	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	59.40	29.23	9.73	1.60	0.07	0.00	0.00	0.00	0.00	13.70	10:34
2	99.40	0.57	0.07	0.00	0.00	0.00	0.00	0.00	0.00	8.76	0:02
3	98.73	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.22	15:45
4	97.97	2.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	7.58	7:41
5	98.23	1.67	0.10	0.00	0.00	0.00	0.00	0.00	0.00	8.91	23:28
6	94.73	4.60	0.57	0.07	0.00	0.00	0.00	0.00	0.00	10.90	8:57
7	93.20	6.40	0.40	0.00	0.00	0.00	0.00	0.00	0.00	9.16	14:32
8	49.53	17.93	14.37	10.23	5.53	1.83	0.50	0.07	0.00	19.10	6:39
9	86.27	10.80	2.47	0.37	0.07	0.00	0.00	0.00	0.00	16.20	9:00
10	87.90	11.33	0.77	0.00	0.00	0.00	0.00	0.00	0.00	9.16	3:44
11	96.13	3.83	0.03	0.00	0.00	0.00	0.00	0.00	0.00	9.47	15:14
12	70.53	17.93	8.07	2.83	0.60	0.10	0.00	0.00	0.00	16.30	22:37
13	73.97	14.97	7.20	2.83	0.80	0.17	0.07	0.00	0.00	17.10	3:21
14	89.17	6.80	2.37	1.23	0.43	0.07	0.00	0.00	0.00	14.50	15:04
15	76.30	13.23	7.00	2.50	0.73	0.17	0.03	0.00	0.00	16.10	23:07
16	79.97	6.83	3.40	3.63	3.10	1.83	0.87	0.30	0.10	24.58	1:32
17	87.53	10.07	2.27	0.13	0.00	0.00	0.00	0.00	0.00	10.20	14:10
18	94.60	4.90	0.47	0.00	0.00	0.00	0.00	0.00	0.00	9.68	14:52
19	93.27	6.20	0.53	0.00	0.00	0.00	0.00	0.00	0.00	8.24	6:27
20	92.90	6.80	0.33	0.00	0.00	0.00	0.00	0.00	0.00	8.04	5:46
21	94.77	4.93	0.33	0.00	0.00	0.00	0.00	0.00	0.00	8.91	15:34
22	98.40	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.22	14:31
23	98.53	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.12	14:40
24	97.93	1.90	0.17	0.00	0.00	0.00	0.00	0.00	0.00	9.78	15:35
25	78.53	16.73	3.63	0.57	0.30	0.13	0.10	0.03	0.00	22.60	17:24
26	59.77	25.43	12.07	2.50	0.27	0.00	0.00	0.00	0.00	13.70	13:53
27	87.03	11.13	1.77	0.07	0.00	0.00	0.00	0.00	0.00	10.30	15:05
28	98.10	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.63	13:29
29	96.67	3.30	0.07	0.00	0.00	0.00	0.00	0.00	0.00	7.89	10:59
30	83.47	12.20	3.90	0.43	0.00	0.00	0.00	0.00	0.00	11.50	14:36
31	81.10	14.33	4.20	0.40	0.00	0.00	0.00	0.00	0.00	11.10	16:24
All	86.90	8.78	2.78	0.95	0.38	0.14	0.05	0.01	0.00	24.58	1:32

Appendix C: Meteorological Data – Hourly

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Jan 2014

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	1.7	1.6	1.7	1.8	1.8	2.2	2.2	2.1	2.2	2.2	2.7	3.0	2.2	2.8	2.0	3.3	3.8	1.4	1.5	4.0	5.3	6.8	5.2	7.1	2.9	7.1	1.4
2	6.6	4.3	3.2	3.8	3.6	5.2	6.4	6.1	4.9	7.1	8.5	8.6	8.1	7.6	7.0	4.8	5.7	4.0	3.2	4.0	4.3	4.3	2.9	3.8	5.3	8.6	2.9
3	3.9	5.1	6.0	6.0	6.4	7.2	6.7	5.9	4.6	4.4	4.2	4.4	3.5	2.2	1.5	1.3	1.8	1.8	1.0	1.3	1.0	0.4	0.4	0.3	3.4	7.2	0.3
4	1.0	1.6	0.3	0.5	0.2	0.2	0.3	1.0	0.7	0.8	1.4	1.5	2.4	2.3	2.0	1.9	1.5	1.7	1.4	0.7	0.8	1.0	1.8	1.7	1.2	2.4	0.2
5	1.3	2.5	2.8	2.4	2.9	2.7	1.7	2.5	2.8	5.6	6.0	4.9	4.3	3.5	3.4	2.5	2.7	3.7	1.6	2.0	3.1	3.7	5.7	6.4	3.4	6.4	1.3
6	7.6	7.5	11.8	12.7	10.4	10.5	10.6	10.9	10.3	7.9	8.0	8.5	8.3	7.5	7.5	6.6	6.0	5.8	4.3	6.6	7.1	8.6	6.3	5.5	8.2	12.7	4.3
7	6.2	7.2	6.7	5.8	5.3	5.7	5.9	6.7	5.7	6.6	5.6	5.2	4.8	4.1	2.7	2.4	1.8	0.9	1.3	1.4	1.3	0.9	0.7	1.1	4.0	7.2	0.7
8	1.0	1.1	1.5	1.4	1.5	1.3	1.6	0.8	1.0	1.0	1.0	2.4	2.5	2.3	2.0	1.8	1.5	1.1	1.1	0.8	0.6	0.6	0.6	0.4	1.3	2.5	0.4
9	0.7	0.7	0.6	0.5	0.8	1.1	1.3	1.0	1.5	1.8	1.7	2.6	1.1	1.3	1.8	1.9	1.7	1.5	1.4	1.1	0.6	0.5	0.3	0.3	1.2	2.6	0.3
10	0.5	0.7	1.2	0.9	0.4	0.9	0.7	0.5	0.7	0.8	2.1	3.2	3.4	2.9	3.0	2.6	2.6	3.1	2.4	0.5	0.8	0.6	1.9	1.9	1.6	3.4	0.4
11	1.3	1.1	1.2	1.1	1.4	1.8	2.2	2.0	1.5	1.5	1.0	1.0	2.6	2.5	2.9	2.8	1.5	0.6	0.4	0.9	0.7	0.9	0.6	0.6	1.4	2.9	0.4
12	0.2	0.4	0.7	0.3	0.4	0.7	0.8	0.9	0.8	0.8	1.8	2.5	2.2	3.0	2.3	2.9	3.1	3.5	3.0	2.8	3.2	1.4	1.5	5.6	1.9	5.6	0.2
13	7.1	5.9	5.5	8.4	4.9	5.6	4.5	4.4	3.8	5.1	5.5	4.0	2.8	3.6	3.1	3.4	3.2	3.7	3.3	2.2	0.9	0.8	1.1	1.6	3.9	8.4	0.8
14	2.3	2.8	3.4	2.9	2.6	2.5	6.6	9.2	9.8	10.7	--	--	5.9	6.0	6.6	6.8	5.3	3.3	3.6	3.8	5.2	7.5	5.2	6.6	5.4	10.7	2.3
15	5.6	5.8	5.3	6.4	5.0	5.3	2.8	3.0	6.9	8.3	8.1	6.1	5.2	5.1	3.4	2.3	2.6	3.8	2.5	1.0	1.1	0.9	1.8	1.9	4.2	8.3	0.9
16	1.1	1.5	2.0	2.2	3.0	6.0	7.1	7.7	7.8	8.0	6.0	7.4	5.8	4.6	4.5	5.6	5.3	5.7	6.8	7.5	10.2	9.7	10.8	10.7	6.1	10.8	1.1
17	11.6	11.0	10.3	7.3	8.9	10.1	10.0	9.7	7.7	7.2	6.5	6.9	6.1	5.6	5.5	4.9	3.7	2.6	1.4	1.4	2.1	1.9	2.3	2.7	6.1	11.6	1.4
18	2.7	2.6	3.4	3.2	4.5	3.8	4.8	5.4	5.8	5.4	6.3	5.0	5.2	5.1	2.7	2.7	1.8	2.0	1.3	1.2	1.3	1.3	2.0	2.7	3.4	6.3	1.2
19	3.6	6.1	5.5	5.2	4.6	3.3	4.8	6.7	6.3	6.6	5.7	5.8	5.5	4.9	3.7	1.8	1.9	1.8	1.6	1.4	1.0	1.4	1.8	1.9	3.9	6.7	1.0
20	2.1	2.0	1.7	2.0	2.1	2.1	1.8	1.9	1.8	2.3	3.8	2.8	2.1	3.0	3.0	2.7	2.8	3.2	1.0	1.1	1.4	1.8	3.3	2.6	2.3	3.8	1.0
21	8.3	7.1	3.8	3.2	4.5	6.8	6.5	7.2	8.2	9.3	8.9	9.1	8.8	8.1	6.1	4.3	4.0	3.8	2.6	2.3	2.5	2.5	2.6	2.7	5.5	9.3	2.3
22	4.2	3.3	4.5	3.2	3.4	4.5	5.1	4.1	2.1	3.5	3.3	2.0	1.9	2.4	2.2	2.0	1.4	1.7	1.9	1.5	0.5	0.8	0.7	0.6	2.5	5.1	0.5
23	0.7	0.6	0.6	0.5	0.9	0.8	0.7	1.1	2.7	3.1	4.1	3.8	4.2	1.7	3.5	2.3	1.8	1.2	0.6	1.6	3.3	8.3	7.6	7.5	2.6	8.3	0.5
24	8.5	10.2	10.3	10.1	11.2	9.7	9.3	8.8	9.1	9.3	9.1	9.0	8.9	8.4	8.3	7.3	5.6	3.6	3.4	4.2	4.0	4.5	5.0	5.0	7.6	11.2	3.4
25	4.9	8.3	8.4	7.6	3.7	3.6	2.9	2.8	2.6	2.2	2.1	1.7	2.7	2.2	2.3	2.5	2.2	2.4	3.5	3.9	2.2	2.0	1.8	1.7	3.3	8.4	1.7
26	1.1	1.6	1.2	0.3	0.3	0.6	0.7	0.4	1.2	2.5	2.4	2.8	2.8	2.6	2.7	2.0	1.8	1.9	2.0	1.7	1.0	0.7	0.5	0.7	1.5	2.8	0.3
27	0.4	1.0	0.6	0.5	0.6	0.6	1.9	1.4	0.9	0.8	1.3	2.7	2.2	2.5	2.7	2.8	2.5	2.4	3.1	2.5	1.9	2.4	1.7	1.7	1.7	3.1	0.4
28	1.3	0.9	0.4	0.6	0.9	1.0	1.6	1.4	1.4	2.0	3.7	3.6	2.7	3.1	3.0	3.1	3.7	3.3	3.1	2.0	0.6	0.9	1.5	2.0	2.0	3.7	0.4
29	1.9	2.1	1.7	2.3	2.5	2.5	2.4	2.5	2.2	2.5	4.2	1.9	2.7	2.6	2.1	2.0	1.8	2.0	1.7	0.9	0.7	0.3	0.9	0.5	2.0	4.2	0.3
30	0.8	0.6	0.2	0.5	0.2	0.5	0.9	1.0	0.4	0.4	1.7	4.0	3.2	2.7	3.0	3.0	2.3	2.1	2.3	4.0	3.7	2.1	3.2	4.2	2.0	4.2	0.2
31	2.4	2.7	2.2	2.1	2.4	3.2	3.6	2.9	4.1	3.7	4.2	4.5	4.5	4.2	3.6	2.9	2.6	2.2	1.7	2.9	2.8	2.2	2.1	1.8	3.0	4.5	1.7
Avg	3.3	3.5	3.5	3.4	3.3	3.6	3.8	3.9	3.9	4.3	4.4	4.4	4.2	3.9	3.6	3.2	2.9	2.6	2.3	2.4	2.4	2.6	2.7	3.0	3.4	--	--
Max	11.6	11.0	11.8	12.7	11.2	10.5	10.6	10.9	10.3	10.7	9.1	9.1	8.9	8.4	8.3	7.3	6.0	5.8	6.8	7.5	10.2	9.7	10.8	10.7	--	12.7	--
Min	0.2	0.4	0.2	0.3	0.2	0.2	0.3	0.4	0.4	0.4	1.0	1.0	1.1	1.3	1.5	1.3	1.4	0.6	0.4	0.5	0.5	0.3	0.3	0.3	--	--	0.2

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Feb 2014

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	1.5	1.6	1.6	1.5	1.3	1.3	0.7	0.6	1.2	1.6	2.0	2.4	1.8	2.0	2.5	2.1	2.2	2.4	2.3	1.6	1.6	1.3	1.9	0.9	1.7	2.5	0.6
2	0.9	1.3	1.4	1.2	1.3	1.8	1.8	1.4	1.7	1.6	1.7	1.8	2.8	2.6	2.9	2.4	2.0	1.7	1.9	1.5	1.1	0.6	0.6	0.6	1.6	2.9	0.6
3	0.3	0.7	0.5	0.5	0.6	0.3	0.4	0.7	1.0	2.7	2.5	2.9	2.2	2.0	2.0	3.4	2.4	3.0	3.3	2.7	1.7	2.8	1.8	0.4	1.7	3.4	0.3
4	0.8	0.8	0.6	0.3	0.3	0.2	0.1	0.3	0.6	1.5	2.8	2.2	2.3	2.9	3.2	3.2	2.3	1.8	0.8	0.4	0.6	0.8	1.0	1.2	1.3	3.2	0.1
5	0.9	0.6	1.1	1.0	1.3	1.8	1.7	2.0	2.0	2.3	2.5	3.0	1.7	2.2	2.2	2.4	1.4	0.8	1.1	0.8	1.2	0.8	0.9	1.0	1.5	3.0	0.6
6	0.9	0.6	1.5	1.3	1.1	1.3	1.3	2.0	3.5	4.2	3.8	2.7	2.5	2.2	2.7	1.9	2.1	1.6	1.2	1.1	1.3	0.7	0.9	1.0	1.8	4.2	0.6
7	0.5	0.9	1.0	0.8	1.2	0.7	1.6	2.4	1.7	1.2	1.7	1.4	1.2	1.8	2.4	2.7	1.7	1.8	1.1	0.7	0.4	0.9	0.6	0.5	1.3	2.7	0.4
8	0.7	0.6	0.6	0.4	0.7	0.6	0.6	0.8	0.9	1.3	1.4	1.6	2.4	2.6	2.5	2.3	1.9	2.2	1.3	1.1	0.4	0.6	0.6	0.5	1.2	2.6	0.4
9	0.6	0.7	0.3	0.7	0.9	1.1	0.7	1.1	1.1	1.8	1.9	2.1	2.0	2.8	2.3	2.5	1.8	1.8	1.2	0.9	0.4	0.3	0.8	0.7	1.3	2.8	0.3
10	0.5	0.4	0.3	0.5	0.5	0.4	0.3	0.7	0.9	1.3	2.7	2.1	2.5	2.7	2.8	2.4	2.5	2.3	1.8	2.2	3.1	2.5	1.9	0.6	1.6	3.1	0.3
11	0.8	1.4	1.9	4.3	7.9	8.8	8.8	9.3	9.2	7.3	5.0	5.7	3.1	2.3	3.0	2.9	2.6	3.3	2.5	2.0	1.5	2.4	0.8	0.4	4.1	9.3	0.4
12	0.9	1.4	1.6	2.3	2.9	2.5	3.2	5.4	4.2	4.7	4.7	4.6	3.1	1.8	2.8	3.2	3.3	3.4	3.4	3.4	3.1	1.8	1.1	0.6	2.9	5.4	0.6
13	1.2	1.2	1.4	1.2	2.0	0.9	0.7	1.4	1.0	0.7	0.9	4.5	3.0	2.8	3.1	2.1	2.8	2.3	1.9	2.4	0.8	0.5	0.5	0.4	1.6	4.5	0.4
14	0.8	0.6	0.7	0.8	0.6	0.5	1.3	1.1	0.7	0.8	1.0	2.4	3.3	2.6	4.0	4.1	4.0	3.4	1.7	1.9	1.8	0.7	0.8	1.1	1.7	4.1	0.5
15	1.1	0.9	1.6	1.0	0.9	1.0	1.4	1.5	0.9	1.6	1.8	2.0	2.5	2.1	2.1	2.2	2.0	2.0	1.8	0.7	0.3	0.3	0.8	0.8	1.4	2.5	0.3
16	0.3	0.4	0.1	0.2	0.3	0.2	0.4	0.3	0.5	0.9	1.7	2.0	2.3	1.8	2.5	2.2	2.0	1.8	1.6	1.0	0.4	0.4	0.8	0.8	1.0	2.5	0.1
17	1.0	1.3	1.7	2.5	1.7	2.2	2.7	3.0	2.8	3.9	4.6	3.5	3.4	2.9	2.6	2.3	2.2	2.3	1.0	0.6	0.8	0.4	0.5	0.4	2.1	4.6	0.4
18	0.8	0.5	0.9	0.7	1.1	0.7	0.4	1.0	0.6	1.1	2.2	1.9	2.1	1.4	2.5	2.6	2.3	1.9	2.2	1.2	0.9	1.3	1.8	1.2	1.4	2.6	0.4
19	0.8	0.3	0.5	0.7	0.4	0.3	0.5	0.3	0.4	0.7	0.8	2.1	2.5	3.7	3.1	2.7	2.5	2.2	1.7	1.6	1.7	2.1	2.0	1.4	1.5	3.7	0.3
20	1.0	1.1	1.5	1.6	3.1	6.3	7.9	6.8	3.5	4.6	5.8	5.7	5.4	3.6	2.7	1.9	1.8	2.3	2.2	2.9	1.4	0.8	0.8	1.6	3.2	7.9	0.8
21	2.0	0.8	1.0	1.0	0.9	1.4	1.3	1.2	1.6	1.7	1.7	1.3	1.7	2.5	2.2	2.0	2.2	2.0	2.0	2.1	0.8	0.8	1.7	1.3	1.6	2.5	0.8
22	1.1	0.9	0.6	0.4	0.6	0.5	0.7	1.0	0.9	1.3	1.5	2.2	2.5	2.3	2.3	2.2	1.9	2.1	2.1	0.9	0.4	0.9	0.2	0.6	1.3	2.5	0.2
23	0.6	0.5	0.4	0.8	0.7	0.9	1.0	1.1	0.9	1.5	2.5	2.4	2.5	2.7	2.6	2.2	2.0	1.7	1.1	0.5	0.8	0.7	0.7	0.6	1.3	2.7	0.4
24	0.4	0.6	0.4	1.2	1.1	1.5	1.6	1.6	2.0	2.8	2.4	2.5	2.6	2.3	2.7	1.9	1.5	1.6	2.0	1.7	0.7	0.7	1.2	1.4	1.6	2.8	0.4
25	0.7	1.3	0.6	0.9	0.6	0.8	1.0	1.0	0.7	0.9	0.9	1.2	1.7	1.6	2.5	2.2	1.4	1.5	2.2	1.9	1.2	0.8	0.7	0.4	1.2	2.5	0.4
26	1.0	0.5	0.6	0.4	0.5	0.6	0.9	0.8	0.6	1.0	2.2	2.2	2.4	2.7	2.1	2.7	2.6	2.4	1.4	0.8	0.4	1.3	0.5	1.5	1.3	2.7	0.4
27	1.8	1.5	1.4	0.6	0.7	0.8	0.9	0.6	1.4	2.4	2.3	2.5	3.5	3.3	4.1	3.1	2.8	3.0	2.1	2.1	1.8	1.4	2.1	1.9	2.0	4.1	0.6
28	0.8	0.9	1.0	0.8	0.7	0.7	1.0	1.1	1.4	3.3	3.5	2.5	2.8	3.2	3.9	2.6	3.2	3.1	3.6	2.6	3.9	3.7	2.5	3.0	2.3	3.9	0.7
Avg	0.9	0.9	1.0	1.1	1.3	1.4	1.6	1.8	1.7	2.2	2.5	2.6	2.6	2.5	2.7	2.5	2.3	2.2	1.9	1.6	1.2	1.2	1.1	1.0	1.7	--	--
Max	2.0	1.6	1.9	4.3	7.9	8.8	8.8	9.3	9.2	7.3	5.8	5.7	5.4	3.7	4.1	4.1	4.0	3.4	3.6	3.4	3.9	3.7	2.5	3.0	--	9.3	--
Min	0.3	0.3	0.1	0.2	0.3	0.2	0.1	0.3	0.4	0.7	0.8	1.2	1.2	1.4	2.0	1.9	1.4	0.8	0.8	0.4	0.3	0.3	0.2	0.4	--	--	0.1

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Mar 2014

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	4.2	5.1	4.5	5.4	6.4	6.4	5.2	6.3	6.4	5.4	6.6	6.1	5.9	5.2	5.1	5.5	5.5	4.0	4.9	4.1	5.0	5.8	4.1	3.9	5.3	6.6	3.9
2	4.3	2.0	1.9	1.5	1.4	1.2	1.8	1.4	1.2	1.4	1.8	1.0	1.5	2.0	2.1	1.6	1.3	2.8	4.2	3.9	1.0	0.8	1.0	1.3	1.9	4.3	0.8
3	1.1	1.8	1.2	1.8	2.0	1.8	1.7	1.6	2.1	3.4	4.0	3.2	2.6	2.1	1.9	2.0	1.7	3.3	4.0	4.2	2.8	0.6	1.1	1.4	2.2	4.2	0.6
4	1.2	1.4	1.4	1.1	1.7	1.3	1.0	1.2	0.9	0.6	1.7	3.2	2.8	2.2	2.3	2.3	2.1	1.4	1.9	2.8	1.9	0.8	1.1	1.3	1.7	3.2	0.6
5	0.9	1.1	1.5	1.1	2.0	2.0	1.3	1.8	4.4	5.7	5.3	4.9	4.4	3.2	1.5	1.7	1.3	2.6	1.6	1.1	1.4	1.6	2.0	2.4	2.4	5.7	0.9
6	2.4	2.1	2.1	2.5	2.1	2.6	2.3	2.0	2.5	3.3	3.2	3.2	2.2	2.2	2.0	2.1	1.0	1.1	1.4	1.3	1.2	0.9	0.6	1.7	2.0	3.3	0.6
7	1.4	0.7	0.6	0.5	0.6	0.8	0.8	0.7	0.6	1.4	1.8	2.4	2.9	3.2	3.0	3.2	2.9	2.3	2.3	2.6	2.1	1.3	1.4	0.7	1.7	3.2	0.5
8	1.0	1.5	2.1	7.5	8.2	9.5	10.2	10.3	9.9	8.6	9.1	7.8	6.4	5.6	5.6	6.2	6.7	7.0	6.2	6.7	8.0	8.0	7.2	6.5	6.9	10.3	1.0
9	5.5	6.5	--	5.4	3.5	3.4	4.9	7.5	9.8	8.4	6.0	4.6	4.4	5.0	5.0	2.7	2.5	2.0	2.9	1.2	1.2	1.6	1.4	1.2	4.2	9.8	1.2
10	1.2	2.0	1.8	2.0	3.0	3.4	3.3	3.4	4.4	3.1	3.0	2.2	2.3	2.2	2.2	2.6	2.3	2.3	1.6	0.7	0.6	0.9	0.7	0.6	2.2	4.4	0.6
11	0.4	0.4	0.4	1.2	1.1	1.1	1.6	0.5	1.7	2.1	2.8	2.5	2.6	2.9	2.8	2.8	2.4	2.1	2.6	1.6	0.8	0.8	0.7	0.7	1.6	2.9	0.4
12	0.8	1.2	3.1	2.9	3.1	2.8	2.5	3.4	4.3	6.2	7.3	6.0	5.5	4.6	3.2	2.7	2.8	4.1	4.0	5.3	3.9	4.2	4.8	5.2	3.9	7.3	0.8
13	6.4	6.0	5.6	6.0	5.2	5.2	5.4	5.4	6.3	6.0	5.2	4.3	2.7	2.2	2.6	2.5	2.1	1.3	1.4	1.7	1.7	0.9	1.0	1.6	3.7	6.4	0.9
14	1.3	1.9	1.4	1.3	0.9	1.0	1.4	1.2	1.1	1.9	2.8	2.3	2.4	2.6	3.7	6.9	4.7	2.9	2.8	1.7	1.3	1.3	1.3	1.0	2.1	6.9	0.9
15	1.1	0.6	0.6	1.8	1.2	0.8	1.8	2.7	3.2	3.4	3.1	3.6	3.5	4.0	4.5	4.0	5.3	3.9	2.3	4.2	5.5	7.3	8.4	9.6	3.6	9.6	0.6
16	10.2	11.7	12.5	13.0	7.0	6.0	4.0	2.4	4.3	4.9	3.4	3.9	2.5	1.9	2.3	3.4	3.4	2.8	2.7	2.2	1.6	0.4	1.3	0.7	4.5	13.0	0.4
17	1.5	0.4	0.6	0.8	0.4	0.6	0.8	0.6	0.7	1.9	2.8	2.4	2.4	2.6	4.2	4.3	4.3	3.7	2.5	2.4	3.4	2.4	2.0	1.4	2.0	4.3	0.4
18	1.3	0.9	1.5	1.4	1.0	0.6	0.9	1.7	6.0	6.9	4.8	2.7	2.1	2.3	2.9	2.6	2.8	2.2	1.8	1.4	1.9	1.4	1.2	0.8	2.2	6.9	0.6
19	1.0	0.7	0.8	0.8	1.0	1.6	2.1	2.2	4.3	4.0	3.9	2.0	1.8	2.3	2.9	2.3	2.4	2.2	1.8	2.2	1.3	0.9	1.0	0.8	1.9	4.3	0.7
20	0.7	0.6	0.9	0.8	1.2	1.5	1.5	1.4	1.4	1.6	1.5	2.0	2.1	2.4	2.4	2.5	2.2	1.4	1.4	1.3	0.9	1.4	0.7	0.6	1.4	2.5	0.6
21	0.2	0.2	0.5	0.8	0.5	0.7	0.7	0.6	1.1	1.6	2.2	2.2	3.0	3.5	2.3	2.5	2.5	2.2	1.5	1.3	1.1	1.0	0.7	0.5	1.4	3.5	0.2
22	0.6	0.4	0.7	2.3	1.3	0.6	0.2	0.6	1.1	2.6	2.3	2.4	2.0	2.1	2.1	2.6	2.5	1.8	1.6	1.0	0.8	0.4	0.3	1.1	1.4	2.6	0.2
23	0.9	1.1	1.0	1.1	1.5	1.9	1.8	1.8	2.9	2.3	1.5	2.5	2.5	2.7	2.6	2.5	2.6	2.1	2.2	2.1	1.8	0.8	0.7	0.9	1.8	2.9	0.7
24	0.7	0.6	0.6	0.5	0.9	0.8	1.3	1.1	2.3	3.7	2.3	2.8	2.4	2.0	2.7	3.0	2.0	1.6	2.1	2.7	1.9	0.7	1.6	1.2	1.7	3.7	0.5
25	1.1	1.6	1.6	1.7	1.4	1.7	2.5	2.6	2.9	2.0	3.1	2.2	2.5	2.9	3.0	2.9	3.7	4.9	2.2	2.2	1.5	1.9	1.6	1.6	2.3	4.9	1.1
26	0.9	0.7	1.2	0.7	0.5	0.4	0.6	3.1	5.3	3.8	4.2	5.4	4.4	4.4	4.6	5.5	4.8	3.8	3.2	2.6	3.2	3.0	3.1	2.9	3.0	5.5	0.4
27	2.8	3.1	2.9	2.2	1.8	2.3	1.2	1.0	2.6	2.4	2.6	3.1	3.3	3.5	3.9	3.2	2.9	2.2	1.8	1.5	1.5	1.8	1.2	1.5	2.3	3.9	1.0
28	0.7	1.3	1.8	1.0	1.5	0.7	0.4	0.6	1.1	1.7	2.1	2.5	2.7	3.0	2.6	3.2	2.8	2.7	3.4	3.2	2.8	2.3	1.4	1.0	1.9	3.4	0.4
29	0.7	1.2	1.4	1.5	2.2	2.7	2.0	2.2	2.4	3.2	3.3	3.0	2.7	2.2	2.1	2.0	2.4	2.1	2.5	2.9	2.3	1.5	0.7	0.6	2.1	3.3	0.6
30	0.7	0.5	0.2	0.2	0.5	0.4	0.3	0.3	1.0	2.9	2.6	2.8	2.1	2.8	3.5	2.9	2.9	2.6	2.0	2.2	1.5	1.8	1.2	1.1	1.6	3.5	0.2
31	0.9	1.0	1.5	1.0	0.9	0.9	1.1	1.0	1.4	2.7	3.0	3.4	3.4	3.9	4.6	3.9	4.0	3.2	2.0	1.5	1.2	1.4	1.1	1.0	2.1	4.6	0.9
Avg	1.9	1.9	1.9	2.3	2.1	2.2	2.1	2.3	3.2	3.5	3.5	3.3	3.0	3.0	3.1	3.2	3.0	2.7	2.5	2.5	2.2	1.9	1.8	1.8	2.5	--	--
Max	10.2	11.7	12.5	13.0	8.2	9.5	10.2	10.3	9.9	8.6	9.1	7.8	6.4	5.6	5.6	6.9	6.7	7.0	6.2	6.7	8.0	8.0	8.4	9.6	--	13.0	--
Min	0.2	0.2	0.2	0.2	0.4	0.4	0.2	0.3	0.6	0.6	1.5	1.0	1.5	1.9	1.5	1.6	1.0	1.1	1.4	0.7	0.6	0.4	0.3	0.5	--	--	0.2

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Jan 2014

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	133	171	171	161	158	170	158	149	133	116	86	31	357	3	293	256	258	58	102	41	49	43	46	38	101	357	3
2	41	54	93	78	67	43	40	43	51	44	37	34	28	28	29	46	39	44	48	46	44	45	69	49	47	93	28
3	47	42	38	39	36	34	35	37	45	50	48	43	40	81	103	199	217	232	266	246	221	114	179	146	63	266	34
4	202	227	276	172	133	155	203	120	129	114	83	240	209	211	214	219	182	227	192	136	94	183	277	183	184	277	83
5	95	92	82	118	80	53	104	119	104	32	34	36	41	44	26	359	245	256	318	48	67	85	65	50	61	359	26
6	46	50	34	32	35	37	38	35	42	51	57	56	48	50	41	41	40	43	50	43	49	39	43	43	43	57	32
7	42	39	38	40	43	41	42	39	46	39	44	47	46	40	107	49	72	144	83	119	160	165	147	165	69	165	38
8	154	155	171	148	163	151	80	133	121	113	194	262	235	230	212	237	207	212	220	140	170	124	145	136	170	262	80
9	144	135	137	131	148	150	115	118	115	111	84	92	79	308	239	228	188	219	212	164	104	158	252	127	146	308	79
10	185	147	220	194	162	216	175	160	167	101	210	243	240	241	243	244	241	256	275	93	148	165	249	277	206	277	93
11	110	128	116	106	96	117	89	75	98	132	105	191	245	254	251	248	250	232	106	154	153	143	127	144	142	254	75
12	86	130	145	46	128	192	194	80	143	105	215	242	231	218	233	249	255	252	247	270	288	234	134	30	199	288	30
13	32	57	55	34	56	56	78	49	56	66	57	54	310	240	246	252	248	251	263	263	170	170	163	145	65	310	32
14	123	81	96	88	90	89	41	27	25	28	--	--	66	48	61	61	61	77	77	71	70	54	115	97	70	123	25
15	86	77	64	57	78	78	91	115	61	50	59	63	68	55	55	48	275	273	278	113	168	156	167	174	83	278	48
16	186	186	163	134	138	68	49	45	51	48	62	51	60	59	43	41	32	24	32	36	36	38	41	39	59	186	24
17	39	40	43	60	47	39	40	45	51	55	54	54	56	53	47	41	44	45	122	108	48	44	66	117	55	122	39
18	135	135	114	126	65	79	114	125	132	119	98	89	58	39	353	252	250	64	106	100	126	106	88	72	100	353	39
19	65	52	57	58	60	71	56	50	53	52	56	51	49	45	44	64	76	74	85	94	118	155	174	165	71	174	44
20	183	182	183	167	169	185	164	165	166	110	89	100	239	252	249	252	260	272	269	146	177	127	95	116	178	272	89
21	45	50	74	102	64	53	56	56	52	52	51	47	45	44	55	78	107	58	64	78	75	81	84	73	64	107	44
22	54	61	53	61	58	55	54	57	88	72	58	103	203	232	283	233	230	222	267	263	262	248	175	179	112	283	53
23	216	168	172	164	169	142	164	148	119	94	52	48	42	74	48	64	57	40	118	124	64	43	46	49	97	216	40
24	46	44	44	44	43	49	50	52	52	52	52	52	50	50	49	52	59	69	75	79	65	59	53	55	54	79	43
25	58	42	41	44	82	66	83	95	104	88	111	126	230	229	259	253	251	259	268	266	269	277	278	277	280	278	41
26	271	263	250	63	143	278	246	148	250	265	268	248	249	239	241	188	240	234	230	257	245	246	153	194	236	278	63
27	183	230	215	90	162	213	267	246	134	91	311	242	256	251	248	229	240	260	274	277	269	263	269	279	242	311	90
28	268	192	189	181	179	179	161	160	120	88	66	80	52	246	259	259	269	263	270	285	199	145	72	101	185	285	52
29	124	119	175	133	137	128	137	125	120	94	73	124	231	255	249	254	250	265	262	276	169	169	255	186	175	276	73
30	278	145	111	142	122	94	137	156	111	140	131	214	219	223	210	219	193	214	224	214	215	194	218	211	182	278	94
31	187	201	194	225	196	204	205	206	210	196	207	207	207	184	169	177	115	98	4	289	277	245	122	130	195	289	4
Avg	107	112	114	101	106	100	99	98	96	81	73	74	29	317	283	246	232	248	246	118	134	133	123	119	105	--	--
Max	278	263	276	225	196	278	267	246	250	265	311	262	357	308	353	359	275	273	318	289	288	277	278	279	--	359	--
Min	32	39	34	32	35	34	35	27	25	28	34	31	28	3	26	41	32	24	4	36	36	38	41	30	--	--	3

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Feb 2014

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	98	88	103	98	69	206	205	254	240	236	237	217	240	248	264	245	253	270	270	293	334	327	310	194	245	334	69
2	150	122	98	125	127	139	129	139	126	111	109	192	236	248	287	278	256	244	279	277	270	233	168	184	184	287	98
3	186	181	131	134	148	136	158	138	141	202	179	214	238	163	300	294	155	250	304	301	3	314	270	242	201	314	3
4	256	223	202	167	156	137	199	64	110	144	207	216	192	225	209	205	211	185	134	89	178	160	155	166	178	256	64
5	140	117	124	95	95	102	94	81	79	65	72	44	32	50	101	108	101	67	26	183	173	150	185	129	99	185	26
6	153	129	162	127	134	116	118	80	64	59	55	97	77	71	130	147	188	206	202	201	234	156	77	177	130	234	55
7	131	96	60	144	69	218	196	217	223	253	221	252	224	215	252	240	253	231	183	193	275	219	157	185	208	275	60
8	161	179	183	202	218	171	164	146	137	117	153	209	262	232	253	249	265	240	237	257	91	180	251	125	197	265	91
9	233	174	52	140	143	176	297	173	138	135	115	177	254	238	231	226	244	219	169	231	193	203	110	106	185	297	52
10	134	189	145	153	174	190	153	161	133	116	221	232	240	224	221	228	205	208	29	259	291	320	25	182	194	320	25
11	173	136	108	65	36	29	31	35	38	34	30	36	28	226	226	234	250	260	271	291	259	272	36	245	348	291	28
12	211	197	159	118	108	127	98	61	96	70	63	48	64	286	255	242	262	262	269	275	273	260	111	186	172	286	48
13	222	178	166	196	257	173	194	167	133	104	71	269	245	256	264	240	254	231	267	254	166	171	74	353	210	353	71
14	166	197	171	171	171	173	172	152	140	109	125	260	255	238	265	271	267	265	246	261	268	209	165	195	205	271	109
15	160	142	162	149	115	117	161	168	143	115	126	191	256	234	227	223	218	233	259	260	149	276	269	225	190	276	115
16	87	142	173	185	160	155	163	133	174	130	218	226	227	231	195	213	216	219	264	253	127	177	193	194	187	264	87
17	176	159	146	116	131	133	128	122	120	66	55	103	133	152	239	227	238	218	113	24	192	177	54	27	136	239	24
18	335	165	306	227	180	157	172	172	147	118	121	111	146	196	229	267	312	250	271	272	245	270	298	275	219	335	111
19	230	171	132	201	156	157	173	155	163	125	111	227	213	228	214	196	204	177	190	246	271	254	248	233	196	271	111
20	213	287	287	317	359	7	10	34	95	55	43	39	42	49	10	265	226	247	257	261	269	177	191	172	322	359	7
21	191	155	173	171	177	172	173	135	92	109	121	66	267	252	244	229	251	276	260	258	285	258	260	268	211	285	66
22	257	267	130	128	176	136	149	153	139	110	145	236	230	258	214	233	213	238	248	235	199	194	163	182	194	267	110
23	183	164	175	179	170	163	164	158	140	125	127	137	171	210	246	213	251	245	242	336	228	255	206	163	188	336	125
24	162	176	153	172	163	152	157	146	119	78	80	138	151	121	194	250	245	261	268	264	182	131	231	216	173	268	78
25	201	262	173	190	164	155	157	179	158	163	94	112	260	262	250	214	148	227	266	267	264	282	290	128	204	290	94
26	251	247	184	161	197	179	161	169	121	104	248	299	245	248	218	229	233	224	258	270	256	287	255	282	227	299	104
27	282	269	230	260	227	150	198	127	189	233	230	212	215	205	185	153	106	151	355	259	318	95	286	280	218	355	95
28	301	284	266	181	172	133	149	115	82	108	135	138	215	218	207	193	212	214	206	214	193	201	185	209	189	301	82
Avg	189	177	156	158	152	151	158	139	130	113	126	183	225	226	233	229	229	232	252	259	237	222	208	198	191	--	--
Max	335	287	306	317	359	218	297	254	240	253	248	299	267	286	300	294	312	276	355	336	334	327	310	353	--	359	--
Min	87	88	52	65	36	7	10	34	38	34	30	36	28	49	10	108	101	67	26	24	3	95	25	27	--	--	3

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Mar 2014

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	201	201	203	208	208	214	202	213	216	212	206	209	214	205	199	194	185	167	179	182	191	199	244	273	205	273	167
2	270	210	132	137	109	91	166	246	240	235	257	245	188	280	238	295	178	247	267	268	98	178	114	152	209	295	91
3	120	103	120	91	127	128	149	141	100	55	47	39	37	293	322	93	246	266	261	269	272	59	178	163	112	322	37
4	143	169	242	145	127	162	136	116	173	129	276	270	267	255	266	273	265	265	260	268	275	272	240	223	226	276	116
5	187	175	174	135	103	128	107	110	76	59	45	48	50	38	7	269	271	19	112	174	149	135	103	99	104	271	7
6	126	121	145	133	146	113	110	85	79	75	79	130	115	240	253	257	232	216	262	242	278	190	205	243	166	278	75
7	253	275	274	165	180	236	207	153	101	202	253	247	236	246	228	217	223	256	275	282	282	263	231	152	232	282	101
8	172	132	81	40	31	33	33	37	39	38	40	28	40	35	47	47	43	38	45	50	53	76	79	80	52	172	28
9	67	62	--	61	61	63	53	48	63	71	72	83	84	75	57	92	90	69	45	91	118	82	81	103	73	118	45
10	87	70	103	129	70	73	70	67	56	62	117	110	207	279	265	235	219	212	176	210	271	264	266	149	143	279	56
11	200	128	130	263	277	292	270	228	246	242	233	247	253	256	238	227	234	216	280	243	260	276	166	227	240	292	128
12	196	146	85	77	93	119	123	85	69	56	52	93	113	121	127	124	146	107	88	49	73	67	60	63	95	196	49
13	49	52	58	58	60	61	56	59	59	57	86	116	138	177	203	237	233	7	64	136	248	183	210	250	94	250	7
14	230	234	232	170	124	114	131	128	77	269	304	271	241	319	309	2	351	323	354	71	176	185	185	196	226	354	2
15	193	182	248	279	269	219	293	278	273	255	249	23	352	336	312	288	289	290	320	6	8	13	45	45	301	352	6
16	53	56	56	48	48	46	98	122	107	91	80	77	54	2	303	269	254	243	242	260	240	190	254	161	73	303	2
17	205	175	166	164	130	164	171	145	120	102	234	235	241	173	208	219	210	182	84	134	69	339	68	49	163	339	49
18	263	314	273	270	242	173	165	136	49	48	55	42	264	246	216	243	219	223	202	300	264	288	5	157	247	314	5
19	195	166	148	155	148	136	116	126	60	67	48	41	137	188	279	244	236	245	237	266	183	175	171	187	169	279	41
20	158	170	166	165	157	147	166	172	123	95	165	81	216	246	213	240	259	191	262	286	212	268	273	155	191	286	81
21	152	150	293	315	131	170	143	144	96	182	251	237	233	227	228	212	265	237	264	250	180	180	173	153	201	315	96
22	113	171	193	239	246	169	170	156	108	187	238	264	261	269	249	238	237	210	230	340	199	241	108	151	209	340	108
23	78	57	185	174	175	183	170	142	116	71	351	242	225	249	246	217	234	243	221	275	289	194	189	195	203	351	57
24	326	201	148	177	215	188	179	144	99	53	78	260	226	134	184	228	220	281	267	267	292	156	185	183	198	326	53
25	148	161	165	150	150	137	137	124	92	97	114	128	180	201	223	212	210	122	181	193	154	83	78	75	146	223	75
26	122	88	78	100	125	98	112	186	196	219	214	209	194	216	184	207	193	157	135	126	325	313	121	159	160	325	78
27	162	185	178	164	213	224	275	236	231	256	236	236	221	228	221	214	197	207	262	106	266	283	273	266	226	283	106
28	231	274	290	262	267	112	149	119	94	130	232	270	242	239	245	248	267	252	265	272	271	283	278	224	246	290	94
29	198	185	154	166	134	123	133	123	71	58	126	147	150	133	160	122	255	248	250	267	255	237	164	252	168	267	58
30	196	145	137	171	168	124	119	134	55	194	221	211	204	194	200	172	158	94	271	323	233	259	248	270	187	323	55
31	284	262	279	194	168	158	144	140	109	136	194	197	237	208	227	211	197	185	195	134	1	216	235	292	200	292	1
Avg	173	159	165	156	147	138	140	135	96	106	173	196	208	233	236	228	228	226	243	250	244	222	182	176	184	--	--
Max	326	314	293	315	277	292	293	278	273	269	351	271	352	336	322	295	351	323	354	340	325	339	278	292	--	354	--
Min	49	52	56	40	31	33	33	37	39	38	40	23	37	2	7	2	43	7	45	6	1	13	5	45	--	--	1

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Jan 2014

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	1.14	1.28	1.35	1.13	1.01	1.00	1.18	0.87	-0.07	-0.63	-0.88	-1.02	-1.00	-1.02	-0.67	-0.30	-0.05	0.45	0.66	0.56	0.47	0.43	0.36	0.44	0.28	1.35	-1.02
2	0.41	0.37	0.39	0.36	0.34	0.47	0.40	0.26	-0.14	-0.42	-0.66	-0.82	-0.82	-0.79	-0.68	-0.44	0.03	0.33	0.36	0.38	0.43	0.45	0.32	0.35	0.04	0.47	-0.82
3	0.34	0.35	0.34	0.33	0.32	0.30	0.29	0.26	-0.19	-0.59	-0.91	-1.17	-1.37	-1.13	-0.89	-0.60	-0.15	0.58	0.96	1.14	1.16	0.75	0.73	0.90	0.07	1.16	-1.37
4	1.04	0.72	1.01	0.75	0.61	0.75	0.66	0.96	0.77	-0.29	-0.67	-0.73	-0.61	-0.78	-0.55	-0.32	-0.07	0.30	0.29	0.84	1.13	0.93	0.53	0.85	0.34	1.13	-0.78
5	0.76	0.58	0.48	0.49	0.50	0.32	0.48	0.42	-0.18	-0.54	-0.85	-1.12	-1.27	-1.18	-1.02	-0.70	-0.16	0.07	0.33	0.69	0.57	0.32	0.25	0.22	-0.02	0.76	-1.27
6	0.25	0.24	0.24	0.21	0.23	0.24	0.24	0.20	-0.17	-0.49	-0.66	-0.75	-0.82	-0.82	-0.65	-0.42	0.00	0.31	0.33	0.36	0.28	0.28	0.27	0.31	-0.03	0.36	-0.82
7	0.32	0.30	0.30	0.33	0.33	0.31	0.25	0.23	-0.15	-0.34	-0.63	-1.08	-1.23	-1.29	-0.88	-0.63	-0.14	0.22	0.21	0.35	0.57	0.80	0.84	0.97	0.00	0.97	-1.29
8	0.89	1.10	0.85	0.97	0.90	0.96	0.62	1.46	0.35	-0.52	-0.60	-0.43	-0.71	-0.79	-0.71	-0.62	-0.26	0.14	0.71	0.80	0.77	0.66	0.65	0.89	0.34	1.46	-0.79
9	0.71	0.92	0.88	0.94	1.18	1.08	0.76	0.84	0.60	-0.26	-0.49	-0.58	-0.76	-0.76	-0.65	-0.57	-0.28	0.23	0.94	0.91	0.67	1.13	0.77	0.80	0.38	1.18	-0.76
10	0.72	1.05	1.04	1.31	0.90	1.19	0.86	0.79	0.20	-0.57	-0.59	-0.51	-0.72	-0.74	-0.67	-0.46	-0.18	0.05	0.13	0.54	0.84	1.04	0.79	0.49	0.31	1.31	-0.74
11	0.87	0.83	0.72	0.62	0.82	1.18	0.58	0.33	-0.11	-0.62	-0.84	-0.87	-0.51	-0.47	-0.47	-0.30	-0.07	1.00	0.60	0.87	0.83	1.00	0.70	1.01	0.32	1.18	-0.87
12	0.99	0.78	0.88	0.93	0.82	1.05	0.96	0.92	0.63	-0.19	-0.63	-0.60	-0.81	-0.86	-0.83	-0.30	-0.02	0.04	0.09	0.19	0.25	0.47	1.27	0.55	0.27	1.27	-0.86
13	0.43	0.33	0.40	0.37	0.31	0.31	0.26	0.33	-0.17	-0.50	-0.81	-1.05	-1.02	-0.72	-0.63	-0.38	-0.15	0.07	0.16	0.56	0.98	1.08	1.30	1.08	0.11	1.30	-1.05
14	0.50	0.50	0.62	0.46	0.44	0.53	0.52	0.36	0.04	-0.28	--	--	-0.91	-0.93	-0.65	-0.38	0.00	0.44	0.45	0.45	0.39	0.39	0.30	0.28	0.16	0.62	-0.93
15	0.25	0.35	0.49	0.44	0.32	0.28	0.44	0.45	-0.01	-0.40	-0.70	-0.93	-1.04	-1.14	-1.06	-0.91	-0.24	0.13	0.42	0.92	0.99	1.33	1.16	1.34	0.12	1.34	-1.14
16	0.94	0.91	1.16	0.75	0.51	0.59	0.57	0.42	-0.04	-0.37	-0.69	-0.91	-1.09	-1.11	-0.95	-0.53	-0.09	0.36	0.46	0.42	0.34	0.34	0.30	0.32	0.11	1.16	-1.11
17	0.30	0.32	0.34	0.31	0.38	0.32	0.32	0.23	-0.11	-0.50	-0.81	-0.93	-1.06	-1.09	-0.87	-0.61	-0.11	0.66	0.73	0.57	1.05	1.09	0.88	0.48	0.08	1.09	-1.09
18	0.50	0.60	0.50	0.32	0.40	0.39	0.31	0.22	-0.16	-0.45	-0.56	-0.85	-1.13	-1.11	-0.92	-0.49	-0.02	0.59	0.71	0.63	0.87	1.03	0.85	0.64	0.12	1.03	-1.13
19	0.54	0.49	0.43	0.42	0.45	0.39	0.45	0.31	0.03	-0.49	-0.66	-1.06	-1.23	-1.17	-1.24	-0.99	0.00	0.26	0.34	0.59	0.88	1.06	1.15	0.89	0.08	1.15	-1.24
20	1.18	1.21	0.90	0.96	0.91	0.89	0.99	0.75	0.24	-0.45	-0.66	-0.98	-0.72	-0.76	-0.77	-0.55	-0.20	0.11	0.78	0.94	0.89	0.93	0.66	0.58	0.33	1.21	-0.98
21	0.48	0.44	0.43	0.46	0.51	0.40	0.35	0.25	-0.10	-0.43	-0.69	-0.84	-0.95	-0.84	-0.80	-0.50	-0.06	0.30	0.40	0.36	0.37	0.46	0.38	0.36	0.03	0.51	-0.95
22	0.33	0.27	0.25	0.29	0.26	0.26	0.25	0.23	0.02	-0.39	-1.14	-1.25	-0.96	-0.92	-0.65	-0.68	-0.38	0.08	0.16	0.58	0.85	1.59	1.19	1.05	0.05	1.59	-1.25
23	1.24	0.76	1.02	0.89	0.82	0.70	0.83	0.97	-0.13	-0.59	-1.05	-1.30	-1.24	-1.00	-1.03	-0.76	-0.34	0.55	0.76	0.44	0.51	0.24	0.17	0.19	0.11	1.24	-1.30
24	0.10	0.03	0.05	0.04	0.03	0.03	0.03	0.00	-0.14	-0.34	-0.64	-0.65	-0.80	-0.79	-0.72	-0.42	-0.14	0.02	0.05	0.04	0.07	0.05	0.05	0.06	-0.17	0.10	-0.80
25	0.05	0.06	0.05	0.06	0.08	0.08	0.08	0.18	0.04	-0.73	-0.94	-0.99	-0.98	-0.95	-0.81	-0.67	-0.36	-0.07	-0.01	0.06	0.18	0.18	0.31	0.37	-0.20	0.37	-0.99
26	0.58	0.64	0.61	0.71	0.72	1.12	1.36	1.13	0.52	-0.13	-0.35	-0.75	-0.78	-0.77	-0.80	-0.67	-0.35	0.06	0.17	0.13	0.29	0.46	0.70	0.93	0.23	1.36	-0.80
27	0.97	1.36	0.85	1.00	0.47	0.77	0.22	0.25	-0.03	-0.49	-0.90	-0.77	-0.75	-0.87	-0.79	-0.65	-0.35	0.04	0.07	0.14	0.23	0.46	0.49	0.41	0.09	1.36	-0.90
28	0.50	1.13	0.62	0.83	0.92	1.10	1.15	1.01	-0.23	-0.74	-1.06	-1.18	-1.22	-0.89	-0.67	-0.59	-0.21	0.03	0.17	0.69	0.92	0.92	0.79	0.62	0.19	1.15	-1.22
29	0.53	0.46	0.70	0.47	0.48	0.42	0.51	0.26	-0.33	-0.64	-1.02	-1.17	-1.01	-0.64	-0.74	-0.67	-0.39	0.00	0.21	0.75	0.75	0.89	0.56	0.64	0.04	0.89	-1.17
30	0.76	1.01	1.04	0.75	0.52	0.54	0.80	0.67	0.20	-0.28	-0.83	-0.90	-0.95	-0.94	-0.81	-0.59	-0.35	0.05	0.16	0.13	0.09	0.06	0.08	0.04	0.05	1.04	-0.95
31	0.05	0.05	0.09	0.12	0.06	0.05	0.05	0.00	-0.04	-0.07	-0.12	-0.25	-0.51	-0.35	-0.39	-0.24	-0.16	-0.08	-0.04	-0.04	-0.04	0.00	-0.03	-0.05	-0.08	0.12	-0.51
Avg	0.60	0.63	0.61	0.58	0.53	0.58	0.54	0.50	0.04	-0.44	-0.74	-0.88	-0.94	-0.89	-0.77	-0.55	-0.17	0.24	0.38	0.52	0.60	0.67	0.61	0.58	0.12	--	--
Max	1.24	1.36	1.35	1.31	1.18	1.19	1.36	1.46	0.77	-0.07	-0.12	-0.25	-0.51	-0.35	-0.39	-0.24	0.03	1.00	0.96	1.14	1.16	1.59	1.30	1.34	--	1.59	--
Min	0.05	0.03	0.05	0.04	0.03	0.03	0.03	0.00	-0.33	-0.74	-1.14	-1.30	-1.37	-1.29	-1.24	-0.99	-0.39	-0.08	-0.04	-0.04	-0.04	0.00	-0.03	-0.05	--	--	-1.37

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Feb 2014

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	-0.05	-0.04	-0.05	-0.06	-0.05	0.03	0.07	0.25	-0.02	-0.52	-0.60	-0.96	-0.34	-0.32	-0.28	-0.23	-0.25	-0.07	0.06	0.15	0.27	0.31	0.19	0.56	-0.08	0.56	-0.96
2	0.58	0.38	0.40	0.40	0.42	0.46	0.41	0.33	-0.48	-0.72	-1.10	-0.90	-1.09	-0.88	-0.81	-0.64	-0.33	-0.11	-0.01	0.04	0.10	0.23	0.22	0.40	-0.11	0.58	-1.10
3	0.53	0.31	0.28	0.35	0.43	0.35	0.34	0.49	-0.09	-0.67	-1.08	-1.01	-0.65	-0.43	-0.39	-0.31	-0.21	-0.11	-0.06	-0.05	0.30	0.16	0.15	0.50	-0.04	0.53	-1.08
4	0.32	0.27	0.39	0.43	0.46	0.44	0.27	0.44	-0.42	-0.79	-0.98	-0.94	-0.47	-0.51	-0.50	-0.38	-0.39	-0.04	0.17	0.40	0.65	0.36	0.37	0.44	0.00	0.65	-0.98
5	0.40	0.55	0.24	0.24	0.19	0.22	0.15	0.06	-0.04	-0.50	-0.77	-0.63	-0.31	-0.56	-0.90	-0.72	-0.47	-0.13	0.12	0.47	0.42	0.66	0.79	0.49	0.00	0.79	-0.90
6	0.46	0.60	0.74	0.48	0.55	0.48	0.34	0.25	-0.12	-0.35	-0.78	-0.83	-0.88	-0.90	-0.77	-0.53	-0.25	-0.08	0.08	0.26	0.18	0.18	0.15	0.21	-0.02	0.74	-0.90
7	0.30	0.17	0.14	0.22	0.20	0.14	0.10	0.00	-0.12	-0.34	-0.36	-0.61	-0.64	-0.80	-0.78	-0.61	-0.53	-0.04	0.20	0.62	0.62	0.99	0.65	0.76	0.01	0.99	-0.80
8	0.67	0.68	0.99	1.01	1.08	0.96	0.83	0.86	0.03	-0.66	-0.91	-0.71	-0.71	-1.08	-0.82	-0.79	-0.52	-0.08	0.15	0.37	0.61	0.54	0.78	0.85	0.17	1.08	-1.08
9	0.99	0.88	0.97	1.30	1.04	0.99	1.00	0.79	-0.03	-0.78	-1.19	-1.46	-0.94	-0.90	-0.90	-0.93	-0.65	-0.06	0.19	0.67	0.62	1.09	1.24	0.97	0.21	1.30	-1.46
10	0.72	0.70	0.68	0.69	1.04	0.74	0.81	0.61	-0.35	-0.68	-0.78	-0.75	-0.89	-0.99	-0.84	-0.76	-0.46	-0.05	0.20	0.11	0.11	0.26	0.51	0.61	0.05	1.04	-0.99
11	1.28	0.79	0.51	0.56	0.39	0.29	0.28	0.17	-0.18	-0.54	-0.97	-1.21	-1.40	-1.03	-1.04	-0.64	-0.47	-0.04	0.10	0.21	0.52	0.24	0.76	1.14	-0.01	1.28	-1.40
12	0.77	0.89	0.79	0.56	0.34	0.39	0.50	0.35	-0.29	-0.75	-1.15	-1.38	-1.55	-1.14	-0.74	-0.85	-0.35	-0.05	0.09	0.19	0.27	0.35	0.78	0.95	-0.04	0.95	-1.55
13	1.06	0.93	0.88	1.21	0.90	0.96	1.36	1.15	-0.17	-0.61	-0.84	-0.50	-0.84	-0.79	-0.69	-0.74	-0.42	-0.03	0.16	0.15	0.69	0.93	1.05	1.27	0.30	1.36	-0.84
14	1.03	0.98	0.94	0.96	1.09	1.01	1.20	1.00	-0.27	-0.54	-0.91	-0.62	-0.80	-1.00	-0.51	-0.40	-0.30	-0.03	0.41	0.59	0.46	1.66	1.07	1.05	0.34	1.66	-1.00
15	1.03	0.99	1.14	0.72	0.76	0.75	0.97	1.00	-0.11	-0.74	-1.05	-0.96	-0.72	-0.98	-1.06	-0.78	-0.40	0.02	0.31	0.55	1.12	0.94	0.63	0.74	0.20	1.14	-1.06
16	0.84	0.62	0.45	0.82	1.00	0.84	0.94	0.77	0.14	-0.53	-0.74	-0.80	-0.84	-0.83	-0.79	-0.44	-0.21	-0.02	0.19	0.45	0.81	0.95	1.20	0.92	0.24	1.20	-0.84
17	1.00	1.13	0.76	0.56	0.60	0.62	0.47	0.10	-0.38	-0.79	-1.24	-1.37	-1.33	-1.35	-1.04	-0.84	-0.55	-0.08	0.32	0.77	0.69	1.11	0.89	0.72	0.03	1.13	-1.37
18	0.97	0.99	1.06	0.87	1.18	0.92	1.25	1.08	0.07	-0.73	-0.94	-1.19	-1.14	-1.08	-1.12	-0.82	-0.41	-0.07	0.11	0.25	0.54	0.67	0.20	0.44	0.13	1.25	-1.19
19	0.77	1.21	0.88	0.59	0.57	0.49	0.56	0.45	0.30	-0.41	-0.58	-0.71	-0.71	-0.83	-0.71	-0.63	-0.40	-0.04	0.12	0.17	0.25	0.13	0.19	0.24	0.08	1.21	-0.83
20	0.57	0.48	0.60	0.55	0.46	0.27	0.22	0.10	-0.41	-0.78	-1.17	-1.40	-1.58	-1.50	-1.25	-0.94	-0.50	-0.20	0.14	0.19	0.52	0.81	1.02	0.85	-0.12	1.02	-1.58
21	0.72	0.74	0.86	1.01	1.11	1.20	0.81	0.43	-0.14	-0.58	-0.78	-1.09	-0.70	-0.79	-0.84	-0.99	-0.47	-0.18	0.19	0.53	0.94	0.90	1.14	0.89	0.21	1.20	-1.09
22	0.96	0.96	0.84	0.74	0.90	0.59	0.74	0.64	-0.26	-0.89	-0.97	-0.89	-1.10	-0.86	-0.87	-0.49	-0.29	-0.07	0.05	0.15	0.52	0.69	0.88	0.74	0.11	0.96	-1.10
23	0.92	0.94	1.00	0.79	0.85	0.76	0.88	0.44	-0.15	-0.80	-1.14	-1.33	-1.37	-1.02	-0.82	-0.70	-0.67	-0.09	0.22	0.59	0.69	1.03	0.83	0.83	0.11	1.03	-1.37
24	0.58	0.65	0.70	0.76	0.66	1.12	0.83	0.51	0.03	-0.73	-1.31	-1.40	-1.44	-1.38	-1.10	-0.65	-0.31	-0.07	0.01	0.17	0.87	0.82	0.58	0.65	0.02	1.12	-1.44
25	0.66	0.64	0.64	0.68	0.54	0.73	0.92	0.65	0.21	-0.08	-0.70	-0.73	-0.47	-0.41	-0.41	-0.42	-0.33	-0.08	-0.01	0.02	0.06	0.09	0.31	0.42	0.12	0.92	-0.73
26	0.25	0.25	0.40	0.60	0.71	0.89	0.81	0.61	-0.39	-0.72	-0.65	-0.95	-1.00	-1.03	-0.74	-0.93	-0.68	-0.25	0.05	0.16	0.43	0.13	0.33	0.26	-0.06	0.89	-1.03
27	0.20	0.24	0.28	0.25	0.52	0.56	0.92	0.26	-0.38	-0.57	-0.73	-0.95	-1.10	-1.02	-0.72	-0.41	-0.42	-0.17	0.08	0.09	0.19	0.29	0.15	0.17	-0.09	0.92	-1.10
28	0.23	0.42	0.57	0.83	0.69	0.49	0.70	0.61	-0.66	-0.84	-1.19	-1.23	-1.28	-1.09	-0.59	-0.36	-0.32	-0.12	0.00	0.05	-0.02	-0.04	-0.05	-0.02	-0.13	0.83	-1.28
Avg	0.67	0.66	0.65	0.65	0.67	0.63	0.67	0.51	-0.17	-0.63	-0.91	-0.98	-0.94	-0.91	-0.79	-0.64	-0.41	-0.08	0.13	0.30	0.48	0.59	0.61	0.65	0.06	--	--
Max	1.28	1.21	1.14	1.30	1.18	1.20	1.36	1.15	0.30	-0.08	-0.36	-0.50	-0.31	-0.32	-0.28	-0.23	-0.21	0.02	0.41	0.77	1.12	1.66	1.24	1.27	--	1.66	--
Min	-0.05	-0.04	-0.05	-0.06	-0.05	0.03	0.07	0.00	-0.66	-0.89	-1.31	-1.46	-1.58	-1.50	-1.25	-0.99	-0.68	-0.25	-0.06	-0.05	-0.02	-0.04	-0.05	-0.02	--	--	-1.58

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Mar 2014

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	-0.01	-0.01	-0.05	-0.05	0.07	0.07	-0.01	-0.02	-0.05	-0.06	-0.03	-0.03	-0.07	-0.04	-0.28	-0.21	-0.41	-0.26	-0.04	0.04	0.05	0.04	0.03	-0.05	-0.06	0.07	-0.41
2	0.00	-0.02	-0.14	-0.16	-0.14	-0.15	-0.17	-0.09	-0.18	-0.44	-0.54	-0.44	-0.96	-0.76	-0.86	-0.76	-0.56	-0.15	-0.08	-0.03	0.18	0.30	0.16	0.36	-0.24	0.36	-0.96
3	0.38	0.36	0.37	0.44	0.46	0.33	0.42	0.08	-0.53	-0.72	-1.16	-1.56	-1.38	-0.68	-0.90	-0.99	-0.54	-0.17	0.02	0.06	0.17	0.79	0.78	0.87	-0.13	0.87	-1.56
4	0.51	0.64	0.67	0.74	0.36	0.46	0.39	0.45	0.16	-0.32	-0.40	-0.40	-0.59	-0.81	-0.59	-0.52	-0.38	-0.17	0.02	0.06	0.10	0.59	0.72	0.71	0.10	0.74	-0.81
5	0.75	0.99	0.98	0.87	0.58	0.52	0.48	0.10	-0.39	-0.74	-1.05	-1.40	-1.54	-1.27	-1.14	-0.98	-0.56	-0.29	0.58	0.72	1.02	0.61	0.65	0.68	0.01	1.02	-1.54
6	0.60	0.77	0.62	0.61	0.53	0.34	0.48	0.42	0.06	-0.45	-1.03	-0.80	-0.94	-0.71	-0.55	-0.33	-0.18	-0.02	0.21	0.52	0.57	0.81	0.85	0.58	0.12	0.85	-1.03
7	0.58	0.43	0.56	0.87	0.86	1.00	1.40	0.78	-0.44	-0.60	-0.67	-0.90	-0.96	-0.85	-0.91	-0.84	-0.57	-0.25	0.03	0.05	0.14	0.26	0.45	0.66	0.05	1.40	-0.96
8	0.79	0.62	0.38	0.37	0.31	0.28	0.22	-0.01	-0.36	-0.72	-0.95	-1.18	-1.50	-1.50	-1.40	-1.13	-0.71	-0.22	0.27	0.28	0.19	0.09	0.11	0.12	-0.24	0.79	-1.50
9	0.14	0.15	--	0.21	0.27	0.27	0.27	-0.14	-0.44	-0.66	-0.98	-1.16	-1.35	-1.31	-1.40	-1.06	-0.82	-0.30	0.40	0.44	0.50	0.64	0.58	0.57	-0.23	0.64	-1.40
10	0.54	0.62	0.65	0.89	0.53	0.41	0.37	-0.17	-0.70	-1.18	-1.18	-1.21	-1.29	-1.10	-1.11	-0.90	-0.67	-0.28	0.11	0.27	0.51	0.56	0.72	0.86	-0.12	0.89	-1.29
11	0.77	1.47	1.47	0.60	0.38	0.74	0.41	0.46	-0.23	-0.54	-0.82	-0.88	-0.96	-1.03	-0.91	-0.92	-0.52	-0.19	0.02	0.11	0.34	0.69	0.56	0.74	0.07	1.47	-1.03
12	0.82	0.79	0.47	0.41	0.39	0.34	0.41	-0.09	-0.54	-0.96	-1.27	-1.23	-1.16	-1.17	-1.14	-1.01	-0.76	-0.10	0.12	0.24	0.18	0.20	0.22	0.23	-0.19	0.82	-1.27
13	0.22	0.23	0.19	0.18	0.18	0.19	0.23	-0.15	-0.59	-0.93	-1.09	-1.16	-1.31	-1.40	-0.97	-0.38	-0.32	-0.11	0.20	0.26	0.56	0.70	0.75	0.66	-0.16	0.75	-1.40
14	0.20	0.15	0.34	0.51	0.42	0.72	0.63	0.04	-0.59	-0.23	-0.41	-0.76	-0.84	-0.66	-0.67	-0.49	-0.27	-0.18	0.13	0.31	0.35	0.30	0.46	0.45	0.00	0.72	-0.84
15	0.52	0.55	0.74	0.28	0.50	0.99	0.40	0.07	-0.13	-0.48	-0.76	-1.52	-1.17	-1.04	-0.88	-0.63	-0.44	-0.23	0.24	0.35	0.29	0.24	0.31	0.24	-0.07	0.99	-1.52
16	0.20	0.17	0.15	0.17	0.31	0.32	0.26	-0.22	-0.62	-0.90	-1.32	-1.43	-1.48	-1.34	-1.18	-0.77	-0.66	-0.33	0.07	0.17	0.37	0.81	0.48	0.60	-0.26	0.81	-1.48
17	0.84	1.09	0.81	0.85	0.79	0.71	0.87	0.21	-0.38	-0.78	-0.87	-0.98	-1.04	-1.09	-0.95	-0.77	-0.54	-0.20	0.12	0.22	0.32	0.24	0.33	0.34	0.00	1.09	-1.09
18	0.30	0.33	0.25	0.44	0.69	0.76	0.75	0.09	-0.62	-1.08	-1.54	-1.64	-1.03	-1.00	-1.09	-0.80	-0.57	-0.18	0.06	0.13	0.14	0.22	0.54	0.87	-0.17	0.87	-1.64
19	0.81	0.76	0.83	0.86	1.11	1.00	0.39	-0.07	-0.64	-1.08	-1.61	-1.63	-1.41	-1.43	-0.91	-1.01	-0.78	-0.37	0.12	0.22	0.87	0.95	0.94	1.21	-0.04	1.21	-1.63
20	1.07	0.77	0.92	0.87	1.26	1.12	0.88	0.23	-0.60	-0.81	-0.95	-1.25	-1.17	-1.13	-1.02	-0.56	-0.44	-0.14	0.08	0.21	0.61	0.46	0.79	0.83	0.08	1.26	-1.25
21	0.72	0.58	1.59	1.51	1.11	0.75	0.65	0.02	-0.67	-0.84	-0.83	-0.98	-1.11	-1.19	-1.08	-0.95	-0.65	-0.32	0.07	0.29	0.93	0.85	0.83	0.55	0.08	1.59	-1.19
22	0.96	0.77	0.79	0.62	0.65	0.85	0.74	0.19	-0.49	-0.85	-0.82	-0.67	-0.87	-1.29	-1.21	-0.95	-0.72	-0.40	0.08	0.31	0.71	0.98	1.10	0.95	0.06	1.10	-1.29
23	1.07	0.89	0.79	0.80	0.81	0.87	1.06	-0.16	-0.66	-1.14	-1.10	-1.00	-1.20	-1.11	-1.10	-1.08	-0.64	-0.32	0.07	0.10	0.15	0.55	0.69	0.65	-0.04	1.07	-1.20
24	1.07	1.43	0.94	0.77	0.94	0.92	0.75	-0.11	-0.75	-1.31	-1.42	-0.75	-1.23	-1.42	-1.33	-1.13	-0.49	-0.22	0.05	0.12	0.27	0.78	1.05	0.98	0.00	1.43	-1.42
25	1.01	1.32	0.73	0.75	0.82	0.67	0.44	-0.19	-0.63	-1.19	-1.21	-1.30	-1.28	-0.82	-0.72	-0.42	-0.24	-0.18	0.10	0.43	0.55	0.59	0.60	0.61	0.02	1.32	-1.30
26	0.65	0.70	0.65	0.83	0.70	0.58	0.65	0.24	-0.43	-0.70	-0.89	-1.04	-0.76	-0.68	-0.66	-0.68	-0.36	-0.18	-0.03	0.00	0.00	0.01	0.03	0.05	-0.06	0.83	-1.04
27	0.03	-0.02	0.00	0.05	0.09	0.18	0.16	-0.17	-0.54	-0.64	-0.97	-1.18	-1.26	-1.07	-1.10	-0.96	-0.52	-0.36	-0.03	0.06	0.08	0.09	0.19	0.24	-0.32	0.24	-1.26
28	0.71	0.46	0.24	0.25	0.36	0.46	0.57	-0.34	-0.85	-1.02	-0.84	-1.12	-1.36	-1.25	-1.18	-0.93	-0.70	-0.33	-0.05	0.01	0.08	0.14	0.37	0.63	-0.24	0.71	-1.36
29	0.76	0.90	1.04	0.96	0.56	0.35	0.33	-0.28	-0.86	-1.41	-1.29	-1.53	-1.46	-1.51	-1.44	-1.24	-0.67	-0.45	0.07	0.16	0.32	0.48	0.87	0.79	-0.19	1.04	-1.53
30	0.93	0.76	0.61	0.55	0.87	0.66	0.69	0.25	-0.50	-0.33	-0.52	-0.62	-0.71	-1.04	-0.67	-0.70	-0.44	-0.34	0.02	0.12	0.21	0.23	0.34	0.36	0.03	0.93	-1.04
31	0.47	0.33	0.31	0.81	1.15	0.99	0.72	-0.33	-0.77	-1.08	-1.14	-1.35	-1.05	-1.23	-1.06	-0.90	-0.66	-0.32	0.05	0.21	0.26	0.23	0.28	0.32	-0.16	1.15	-1.35
Avg	0.59	0.61	0.60	0.58	0.58	0.57	0.51	0.04	-0.48	-0.78	-0.96	-1.07	-1.11	-1.06	-0.98	-0.81	-0.54	-0.24	0.10	0.21	0.36	0.47	0.54	0.57	-0.07	--	--
Max	1.07	1.47	1.59	1.51	1.26	1.12	1.40	0.78	0.16	-0.06	-0.03	-0.03	-0.07	-0.04	-0.28	-0.21	-0.18	-0.02	0.58	0.72	1.02	0.98	1.10	1.21	--	1.59	--
Min	-0.01	-0.02	-0.14	-0.16	-0.14	-0.15	-0.17	-0.34	-0.86	-1.41	-1.61	-1.64	-1.54	-1.51	-1.44	-1.24	-0.82	-0.45	-0.08	-0.03	0.00	0.01	0.03	-0.05	--	--	-1.64

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Jan 2014

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	8.2	7.7	7.7	7.0	6.7	6.2	5.5	5.4	7.3	10.6	13.7	15.8	16.6	17.1	16.4	15.2	14.2	13.9	12.8	12.5	11.7	11.4	10.6	11.4	11.1	17.1	5.4
2	11.4	10.9	9.5	8.6	8.6	9.5	9.5	9.2	10.2	12.1	13.0	13.5	14.6	15.4	15.4	15.6	14.5	12.4	11.7	11.7	11.5	11.2	10.5	9.9	11.7	15.6	8.6
3	9.3	9.0	8.8	8.5	8.2	8.0	7.7	7.8	8.9	10.3	11.9	13.5	15.1	16.4	16.8	17.0	16.2	14.2	13.1	12.3	11.1	10.1	10.5	9.5	11.4	17.0	7.7
4	9.9	10.1	9.0	8.3	8.6	8.0	8.2	7.0	7.4	9.2	11.3	12.5	12.4	13.1	13.0	12.5	11.8	10.5	9.8	8.9	7.9	7.6	9.7	7.3	9.8	13.1	7.0
5	6.2	5.7	6.1	4.5	4.3	4.1	2.9	2.6	4.9	7.2	8.4	9.6	10.7	12.1	12.5	12.4	10.7	9.2	8.0	6.2	5.4	5.8	5.6	5.3	7.1	12.5	2.6
6	5.3	5.5	5.7	5.3	4.8	4.3	4.1	4.3	5.1	6.8	8.2	9.5	10.4	11.4	12.0	12.1	11.6	10.4	9.0	8.6	8.4	8.4	7.8	7.5	7.8	12.1	4.1
7	7.4	7.2	6.8	6.4	6.1	6.0	6.0	5.9	7.0	7.7	8.7	10.7	11.7	13.3	14.0	13.3	11.4	10.7	9.9	9.5	9.1	9.0	8.5	8.3	8.9	14.0	5.9
8	7.6	7.2	6.2	5.8	5.4	4.5	5.0	6.3	6.1	9.9	11.7	12.1	13.1	13.8	13.5	13.2	12.2	10.8	9.5	7.8	7.9	8.1	7.7	7.2	8.9	13.8	4.5
9	7.1	6.1	6.6	6.6	6.5	6.1	5.5	5.2	6.1	7.9	9.3	10.6	11.9	12.8	13.1	13.1	12.4	11.0	9.4	8.5	7.7	7.2	7.0	6.5	8.5	13.1	5.2
10	6.4	5.5	5.9	5.3	5.2	4.9	5.1	5.3	6.0	8.9	9.8	9.9	10.5	11.2	11.8	11.1	10.4	9.5	9.0	7.9	7.0	7.6	8.7	8.6	8.0	11.8	4.9
11	6.6	6.7	6.2	5.6	5.0	5.3	5.6	5.7	8.2	10.9	12.8	14.5	14.4	15.1	15.8	15.7	15.8	14.3	13.3	12.5	11.8	10.4	10.6	10.4	10.6	15.8	5.0
12	10.4	10.3	9.5	9.5	8.8	9.5	8.2	8.3	8.5	9.3	11.7	12.3	13.5	13.9	14.1	13.1	11.7	10.8	10.4	10.6	11.6	10.5	9.1	9.8	10.6	14.1	8.2
13	9.1	8.5	8.1	8.4	7.6	7.3	6.4	7.2	8.1	9.6	11.0	12.7	13.9	12.7	13.4	13.5	12.7	11.5	10.8	10.0	8.8	8.9	8.7	8.0	9.9	13.9	6.4
14	6.7	6.5	8.1	7.9	7.0	6.7	8.3	9.1	9.6	11.0	--	--	14.9	16.3	17.1	16.9	16.2	14.5	13.4	12.4	11.9	11.9	11.3	11.2	11.3	17.1	6.5
15	10.2	9.6	8.8	8.6	8.3	8.2	8.4	8.6	10.6	12.0	13.0	14.5	16.0	17.1	17.8	18.3	17.0	15.3	14.3	12.8	12.1	12.4	11.0	10.7	12.3	18.3	8.2
16	11.3	10.6	8.7	9.2	8.5	10.4	11.2	11.4	11.7	13.0	14.2	15.1	16.4	17.7	18.4	18.2	17.5	16.4	15.6	14.7	14.4	13.8	13.4	13.1	13.5	18.4	8.5
17	13.1	12.9	12.6	11.6	11.2	11.4	11.0	10.3	11.0	12.2	13.3	14.4	16.0	16.8	17.3	17.3	16.7	15.2	13.2	12.6	12.0	11.7	11.0	9.7	13.1	17.3	9.7
18	9.9	9.9	9.9	9.5	8.3	8.0	8.9	8.9	10.0	12.5	14.2	16.1	17.5	18.6	19.1	18.4	17.4	15.9	14.4	13.3	11.9	12.1	12.4	12.5	12.9	19.1	8.0
19	12.7	12.6	12.1	11.7	11.0	10.4	10.1	10.1	10.6	12.2	13.7	15.5	16.6	17.3	17.9	18.7	16.9	15.1	14.1	13.8	13.2	11.9	10.1	9.9	13.3	18.7	9.9
20	9.4	9.0	8.8	8.7	8.2	7.5	6.9	6.6	8.1	12.6	14.6	16.5	18.0	18.4	18.4	18.1	17.3	16.1	14.3	12.9	12.0	11.2	12.9	12.1	12.4	18.4	6.6
21	13.7	13.1	11.9	10.5	11.4	11.2	10.4	10.2	11.2	12.4	13.7	14.8	15.8	16.9	17.8	18.1	17.4	15.0	14.0	13.7	13.3	12.9	12.9	12.7	13.5	18.1	10.2
22	13.0	12.8	12.5	11.9	11.9	11.6	11.3	11.4	11.9	12.9	15.6	17.4	18.0	18.1	17.9	17.8	17.0	15.4	14.4	13.5	12.3	11.1	10.6	9.9	13.8	18.1	9.9
23	10.0	9.8	9.8	9.0	8.6	8.1	8.2	7.0	7.7	11.6	14.2	15.2	15.5	16.1	16.4	16.6	16.1	14.8	13.2	11.6	12.2	11.7	10.3	9.5	11.8	16.6	7.0
24	8.3	7.1	6.8	6.1	5.6	5.1	4.7	4.5	5.1	6.0	7.2	7.9	9.1	10.0	10.7	10.8	10.8	10.5	10.0	9.5	9.6	9.4	9.3	9.4	8.1	10.8	4.5
25	9.5	10.0	10.0	9.8	9.6	9.6	9.6	8.7	8.6	12.0	13.6	15.2	15.8	16.1	16.1	16.2	15.6	14.8	14.4	13.6	12.8	12.6	12.4	11.8	12.4	16.2	8.6
26	11.2	11.0	10.4	9.2	9.2	10.1	9.9	8.8	10.7	12.1	12.6	13.6	14.4	14.9	15.1	14.8	14.3	13.4	12.6	12.0	11.6	11.2	9.9	9.4	11.8	15.1	8.8
27	9.0	8.9	9.3	9.0	9.4	9.6	11.0	10.2	10.2	11.6	13.6	14.1	14.4	14.9	15.1	15.0	14.5	13.3	12.6	12.3	11.7	11.3	11.3	11.4	11.8	15.1	8.9
28	11.0	9.3	8.7	8.2	7.9	7.1	6.2	6.8	8.5	11.8	14.0	15.3	16.0	15.7	15.7	15.6	14.9	13.7	12.7	12.1	10.9	10.7	11.5	10.8	11.5	16.0	6.2
29	9.8	9.3	9.1	8.7	8.4	7.8	7.6	7.5	9.6	12.6	13.5	15.6	16.1	15.8	16.3	16.6	16.1	14.5	13.5	12.8	11.8	12.1	13.2	12.9	12.1	16.6	7.5
30	13.0	12.4	11.3	10.6	10.7	10.0	9.5	9.8	10.4	11.6	14.8	16.5	17.2	17.7	17.9	17.9	17.4	16.7	16.6	16.8	16.4	15.7	15.3	15.0	14.2	17.9	9.5
31	14.5	14.2	13.8	13.5	13.2	12.7	12.1	11.6	11.3	11.0	10.9	10.9	11.6	11.5	11.8	11.3	10.9	10.2	9.7	9.4	9.3	9.1	8.8	8.2	11.3	14.5	8.2
Avg	9.7	9.3	9.0	8.5	8.2	8.0	7.9	7.8	8.7	10.7	12.3	13.5	14.5	15.1	15.4	15.3	14.5	13.2	12.2	11.5	10.9	10.6	10.4	10.0	11.1	--	--
Max	14.5	14.2	13.8	13.5	13.2	12.7	12.1	11.6	11.9	13.0	15.6	17.4	18.0	18.6	19.1	18.7	17.5	16.7	16.6	16.8	16.4	15.7	15.3	15.0	--	19.1	--
Min	5.3	5.5	5.7	4.5	4.3	4.1	2.9	2.6	4.9	6.0	7.2	7.9	9.1	10.0	10.7	10.8	10.4	9.2	8.0	6.2	5.4	5.8	5.6	5.3	--	--	2.6

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Feb 2014

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	7.8	7.5	7.3	7.0	6.5	5.9	5.6	5.2	5.7	7.5	8.0	8.9	8.2	8.3	8.0	7.9	8.0	7.7	7.2	6.9	6.5	6.2	6.2	4.3	7.0	8.9	4.3
2	3.3	3.2	3.7	3.0	2.8	2.1	1.9	1.8	4.2	6.5	7.9	8.3	8.9	9.0	8.8	8.7	8.3	7.7	7.3	7.1	7.0	6.7	5.9	6.1	5.8	9.0	1.8
3	5.9	5.5	5.8	5.5	5.1	4.9	4.8	3.8	5.2	7.2	8.9	8.7	8.5	7.7	7.2	6.9	6.9	5.9	5.3	4.7	4.2	4.9	4.5	3.5	5.9	8.9	3.5
4	3.7	3.4	2.5	1.4	1.2	0.8	1.1	1.0	2.1	4.4	5.4	6.0	5.7	6.4	6.7	6.8	7.1	6.7	5.9	4.9	4.2	3.8	4.0	4.1	4.1	7.1	0.8
5	4.0	4.4	4.5	5.0	4.9	4.4	4.7	4.5	5.1	6.6	8.1	7.9	6.5	5.8	6.7	7.0	7.0	6.8	6.3	5.1	3.9	3.6	4.0	3.5	5.4	8.1	3.5
6	3.1	2.9	2.1	2.2	2.4	1.9	2.0	3.0	3.5	3.9	5.4	7.3	7.8	8.1	8.4	8.3	8.0	7.7	7.4	7.1	7.0	6.5	6.2	6.1	5.4	8.4	1.9
7	6.2	5.9	5.6	5.6	5.4	5.6	6.1	6.0	5.7	6.4	6.9	7.8	8.7	9.8	10.5	10.5	10.5	9.6	8.9	8.2	7.4	6.5	6.3	6.3	7.4	10.5	5.4
8	6.0	6.2	5.8	6.3	6.2	5.9	5.5	5.3	6.5	9.2	11.2	12.0	12.6	13.7	13.9	14.0	13.8	12.7	11.4	10.6	9.5	9.4	9.4	8.6	9.4	14.0	5.3
9	8.8	8.6	8.7	8.0	7.7	7.8	8.4	7.2	9.3	12.7	15.8	17.2	16.5	16.7	16.9	17.0	16.6	15.4	14.3	13.3	12.3	12.2	11.2	11.1	12.2	17.2	7.2
10	11.4	10.9	10.2	9.8	9.7	9.3	9.3	9.3	10.8	13.4	14.9	15.7	16.5	17.0	17.1	17.1	16.7	15.3	14.3	14.0	13.7	13.5	12.4	10.6	13.0	17.1	9.3
11	10.5	9.4	8.9	9.5	11.1	10.7	10.2	10.2	11.2	12.5	14.2	15.4	16.3	16.8	17.1	16.5	16.0	14.8	14.1	13.8	12.9	13.2	11.5	11.4	12.8	17.1	8.9
12	10.2	9.4	9.2	8.7	8.4	8.3	8.8	10.7	11.7	13.6	14.8	16.3	17.8	18.2	17.9	18.3	17.3	16.6	15.7	15.1	14.9	14.3	13.3	13.1	13.4	18.3	8.3
13	13.6	12.6	11.3	11.6	12.7	11.1	11.2	10.8	12.9	16.6	19.4	17.9	19.4	20.1	20.7	21.1	20.1	18.9	17.8	17.3	15.9	14.4	13.9	14.1	15.6	21.1	10.8
14	13.2	13.0	12.8	12.4	12.1	12.0	11.1	11.4	13.5	16.8	19.7	20.2	20.8	22.0	21.7	21.7	21.6	20.8	19.3	18.4	18.4	17.1	16.4	17.5	16.8	22.0	11.1
15	15.8	15.2	14.0	14.6	13.6	13.5	12.9	12.5	14.7	18.4	21.0	22.6	22.8	23.5	24.0	23.8	22.9	21.4	20.0	19.2	17.5	18.8	18.9	17.6	18.3	24.0	12.5
16	15.6	15.5	15.6	15.4	14.6	14.4	13.8	14.0	15.8	18.5	20.3	21.0	21.6	22.0	22.2	21.2	20.3	19.6	18.7	17.9	16.1	16.1	15.1	15.4	17.5	22.2	13.8
17	14.5	13.8	13.5	13.3	13.1	12.2	11.9	12.0	14.3	17.6	19.3	20.9	21.8	22.7	23.0	22.8	22.3	20.8	19.5	18.2	16.9	16.9	17.5	17.4	17.3	23.0	11.9
18	16.5	15.1	16.1	15.0	13.0	12.5	12.0	12.9	14.4	17.9	19.5	20.5	21.0	21.3	21.7	21.6	20.7	19.6	18.7	18.1	16.4	16.8	17.8	16.8	17.3	21.7	12.0
19	15.6	14.1	13.5	13.2	13.1	12.9	12.7	12.7	13.1	14.8	15.9	17.0	17.4	17.8	17.9	18.0	17.7	16.9	16.0	15.3	15.0	14.6	14.4	14.4	15.2	18.0	12.7
20	13.5	13.5	13.3	13.9	13.3	12.6	12.6	11.1	11.0	11.4	12.4	13.7	14.8	15.8	16.7	17.2	16.6	15.6	14.4	13.7	12.5	11.0	10.5	8.9	13.3	17.2	8.9
21	9.7	9.5	9.5	9.3	8.1	7.3	6.8	7.1	8.9	11.5	13.8	16.0	16.0	16.5	17.0	17.9	17.0	16.3	15.1	13.9	13.4	14.1	13.0	12.9	12.5	17.9	6.8
22	12.6	12.5	10.5	10.0	9.7	9.7	9.1	8.9	11.6	14.3	16.3	17.1	18.0	18.3	18.5	17.7	17.2	16.3	15.5	14.9	14.4	13.0	12.8	12.3	13.8	18.5	8.9
23	12.0	11.4	11.5	11.0	11.1	11.5	11.2	10.5	12.0	15.7	17.8	18.9	19.5	19.4	18.8	18.7	18.6	17.5	16.5	15.5	15.1	15.1	13.8	13.6	14.9	19.5	10.5
24	13.8	13.6	13.2	12.5	12.1	11.0	9.4	10.2	12.2	16.1	18.7	20.0	20.4	21.1	20.9	20.3	19.5	18.6	18.0	17.5	16.0	15.2	16.1	15.7	15.9	21.1	9.4
25	15.5	15.6	14.1	13.2	13.2	13.1	12.4	13.2	12.9	14.3	16.2	17.6	17.5	17.5	17.1	17.0	16.4	15.6	15.1	14.8	14.7	14.7	14.1	13.3	15.0	17.6	12.4
26	13.6	13.2	12.0	11.2	11.2	10.6	10.0	10.5	12.8	15.3	15.9	16.9	17.8	18.5	18.1	18.6	18.4	17.5	16.5	16.0	15.6	15.9	15.1	14.7	14.8	18.6	10.0
27	14.4	14.2	13.3	12.6	11.6	10.0	9.3	9.6	12.0	12.8	13.9	15.3	16.2	16.4	16.2	15.9	16.3	16.0	15.1	14.4	13.9	13.4	13.3	13.2	13.7	16.4	9.3
28	12.9	12.5	12.0	9.8	10.0	9.0	9.2	8.6	12.1	14.3	16.0	17.2	18.5	19.1	18.7	18.0	18.0	17.7	17.7	17.6	17.2	16.3	15.7	15.6	14.7	19.1	8.6
Avg	10.8	10.4	10.0	9.7	9.4	9.0	8.7	8.7	10.2	12.5	14.2	15.1	15.6	16.1	16.2	16.1	15.7	14.9	14.0	13.3	12.6	12.3	11.9	11.5	12.5	--	--
Max	16.5	15.6	16.1	15.4	14.6	14.4	13.8	14.0	15.8	18.5	21.0	22.6	22.8	23.5	24.0	23.8	22.9	21.4	20.0	19.2	18.4	18.8	18.9	17.6	--	24.0	--
Min	3.1	2.9	2.1	1.4	1.2	0.8	1.1	1.0	2.1	3.9	5.4	6.0	5.7	5.8	6.7	6.8	6.9	5.9	5.3	4.7	3.9	3.6	4.0	3.5	--	--	0.8

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Mar 2014

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	15.7	15.4	14.7	13.2	11.4	11.3	10.7	10.1	9.4	9.2	9.5	9.3	9.3	9.9	11.3	11.7	12.3	11.7	11.0	10.5	10.2	9.6	7.7	6.2	10.9	15.7	6.2
2	5.0	4.8	4.6	4.3	4.6	4.6	4.8	5.4	5.8	6.9	7.7	8.1	10.3	11.1	11.7	11.9	11.8	10.4	9.5	9.1	8.7	8.4	8.1	8.1	7.7	11.9	4.3
3	7.8	7.2	7.3	7.3	7.3	6.6	5.9	6.4	9.6	11.6	13.0	14.7	15.3	15.0	15.8	16.8	16.1	15.0	13.7	12.9	12.5	11.1	10.7	10.7	11.3	16.8	5.9
4	10.5	10.4	11.0	9.9	10.1	9.9	9.5	9.4	10.8	13.0	13.8	13.8	14.7	15.8	15.5	15.3	15.2	14.6	13.8	13.3	12.9	11.6	11.9	11.4	12.4	15.8	9.4
5	10.5	10.0	9.3	9.0	8.9	8.3	8.4	9.1	12.0	13.4	14.9	16.4	17.8	18.3	19.2	19.5	19.3	18.5	16.3	14.7	13.6	12.3	12.4	12.6	13.5	19.5	8.3
6	12.9	12.4	11.2	11.0	10.8	10.7	11.0	12.1	13.3	15.5	18.1	18.7	19.8	20.5	19.9	19.4	18.7	18.2	16.9	15.6	14.6	13.1	14.2	15.6	15.2	20.5	10.7
7	15.0	14.8	14.2	12.1	11.4	11.4	11.6	10.8	13.5	15.5	16.0	16.7	17.4	17.3	17.6	17.6	17.2	16.3	15.3	14.9	14.9	14.4	13.1	11.6	14.6	17.6	10.8
8	11.6	9.9	9.9	11.5	11.6	11.5	10.7	11.0	12.0	13.1	14.1	15.5	16.6	17.1	17.1	17.2	16.8	15.9	14.8	13.9	12.8	12.2	11.4	11.0	13.3	17.2	9.9
9	10.0	9.3	--	9.2	7.5	7.1	6.8	8.0	9.8	11.9	14.0	15.6	16.6	17.4	18.0	18.1	18.2	17.3	15.4	14.3	13.3	12.9	12.2	11.7	12.8	18.2	6.8
10	11.4	10.5	9.7	9.3	8.4	8.3	8.6	9.9	12.1	14.8	16.5	17.3	18.2	18.5	19.1	19.1	18.7	17.9	16.6	15.6	14.9	14.4	13.8	12.2	14.0	19.1	8.3
11	11.7	11.8	11.4	12.9	12.8	11.9	12.0	12.1	13.1	13.8	14.9	15.8	16.7	17.4	17.8	18.0	17.4	16.6	16.0	15.5	15.0	14.1	12.8	12.7	14.3	18.0	11.4
12	11.9	10.7	10.7	10.8	9.8	9.3	8.6	10.3	12.0	13.5	15.3	17.0	18.2	18.8	19.3	19.3	19.2	17.7	16.4	14.9	13.9	13.2	12.4	12.0	14.0	19.3	8.6
13	11.3	11.0	10.5	10.0	9.5	9.2	9.0	10.0	11.8	13.6	15.9	17.1	18.5	19.7	19.6	18.4	17.9	17.5	16.4	15.2	15.3	13.8	14.1	14.7	14.2	19.7	9.0
14	14.6	13.7	12.7	11.1	10.2	9.6	9.0	9.7	12.3	12.5	12.9	14.4	14.8	14.8	14.9	11.5	13.1	13.9	12.9	11.7	10.4	10.1	10.0	9.8	12.1	14.9	9.0
15	9.5	9.4	10.1	12.0	11.7	9.6	11.2	11.9	12.7	13.4	14.8	17.2	17.5	18.3	18.8	18.6	19.0	18.8	17.9	17.2	16.4	15.4	14.0	13.0	14.5	19.0	9.4
16	12.1	11.4	10.7	10.3	9.8	9.7	9.0	9.5	11.0	12.4	14.1	16.0	17.1	18.3	19.0	17.9	18.1	17.6	16.5	15.5	14.5	13.9	14.3	13.8	13.8	19.0	9.0
17	13.1	12.5	11.1	10.9	10.5	9.8	9.4	9.6	12.4	15.2	16.5	17.6	18.4	19.1	19.5	19.9	20.0	19.8	19.0	18.2	17.2	16.8	16.3	16.1	15.4	20.0	9.4
18	15.6	15.0	14.6	13.6	12.1	10.9	10.2	11.6	12.8	13.3	15.1	16.4	17.2	18.2	18.6	18.1	17.6	16.5	15.4	14.7	14.4	14.1	13.4	11.7	14.6	18.6	10.2
19	10.4	10.1	9.5	9.6	8.3	7.1	7.1	9.1	12.3	14.4	16.6	18.0	18.5	19.3	19.2	19.7	19.4	18.5	17.2	16.4	14.1	13.2	12.5	12.4	13.9	19.7	7.1
20	11.5	12.2	11.5	11.7	10.5	8.2	8.2	10.1	14.1	17.3	19.0	20.1	20.6	21.1	21.2	20.3	19.9	19.2	18.4	17.7	16.2	17.0	16.2	14.7	15.7	21.2	8.2
21	14.3	13.6	13.0	13.0	12.1	11.6	11.0	11.8	14.4	16.4	16.9	17.9	18.6	19.2	19.7	19.7	19.2	18.6	17.7	16.4	14.4	13.8	13.0	13.4	15.4	19.7	11.0
22	12.3	12.6	12.1	12.9	11.7	10.3	10.4	11.0	13.1	15.1	15.5	16.1	17.0	18.4	19.0	19.0	18.9	18.4	17.2	16.2	14.7	14.8	13.7	12.4	14.7	19.0	10.3
23	13.9	14.0	12.1	11.9	10.9	10.2	9.6	12.0	15.0	17.6	18.8	19.1	19.8	20.1	20.5	20.6	20.2	19.6	18.4	17.8	17.5	15.7	15.2	15.0	16.1	20.6	9.6
24	14.7	13.9	12.9	13.1	12.8	12.9	11.8	12.7	16.3	18.6	19.5	19.5	20.9	21.8	22.4	22.2	20.7	20.5	19.9	19.2	18.3	16.2	15.2	15.4	17.1	22.4	11.8
25	14.3	14.0	13.5	13.1	12.5	12.2	12.3	14.2	17.3	20.0	21.1	22.1	22.6	21.9	21.6	21.0	19.4	17.4	17.6	17.0	15.9	14.5	14.1	13.3	16.8	22.6	12.2
26	13.2	12.6	12.2	11.8	11.6	11.5	11.4	12.8	14.1	14.7	15.7	16.4	16.6	16.8	17.1	17.2	16.9	16.3	15.6	14.1	13.2	12.5	11.7	11.2	14.0	17.2	11.2
27	10.6	10.0	9.3	8.5	7.5	7.0	7.0	7.8	8.9	10.0	11.5	12.6	13.4	13.8	14.3	14.4	13.8	13.3	12.4	11.8	11.3	10.9	10.4	10.1	10.9	14.4	7.0
28	8.9	9.7	10.0	10.0	9.6	7.6	7.3	8.8	11.2	12.8	13.5	14.5	15.9	16.5	17.1	17.3	17.1	16.4	15.2	14.6	14.2	14.0	13.5	12.6	12.8	17.3	7.3
29	11.4	11.0	9.9	10.0	10.2	9.9	10.1	11.6	15.0	17.4	18.5	19.8	20.6	21.5	22.6	23.2	22.6	22.2	20.5	19.4	18.5	17.4	15.9	15.8	16.5	23.2	9.9
30	15.4	14.4	14.7	14.3	13.6	13.8	13.7	14.1	15.1	17.3	17.4	17.2	17.4	19.1	18.8	19.1	18.5	17.9	16.6	15.7	15.1	14.4	13.7	13.6	15.9	19.1	13.6
31	13.1	12.7	12.0	9.8	9.1	8.2	7.9	10.7	13.5	15.7	16.5	17.5	18.2	19.0	19.1	19.4	19.7	19.2	18.2	17.3	16.9	16.4	15.5	14.7	15.0	19.7	7.9
Avg	12.1	11.6	11.2	10.9	10.3	9.7	9.5	10.4	12.5	14.2	15.4	16.4	17.2	17.9	18.2	18.1	17.8	17.1	16.1	15.2	14.4	13.6	13.0	12.6	14.0	--	--
Max	15.7	15.4	14.7	14.3	13.6	13.8	13.7	14.2	17.3	20.0	21.1	22.1	22.6	21.9	22.6	23.2	22.6	22.2	20.5	19.4	18.5	17.4	16.3	16.1	--	23.2	--
Min	5.0	4.8	4.6	4.3	4.6	4.6	4.8	5.4	5.8	6.9	7.7	8.1	9.3	9.9	11.3	11.5	11.8	10.4	9.5	9.1	8.7	8.4	7.7	6.2	--	--	4.3

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Jan 2014

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	26	202	390	534	618	632	582	470	310	122	3	0	0	0	0	0	0	162	632	0
2	0	0	0	0	0	0	0	27	206	397	545	631	649	598	479	301	116	3	0	0	0	0	0	0	165	649	0
3	0	0	0	0	0	0	0	25	203	393	537	620	631	585	472	309	120	4	0	0	0	0	0	0	162	631	0
4	0	0	0	0	0	0	0	8	104	268	404	456	433	492	381	196	69	3	0	0	0	0	0	0	117	492	0
5	0	0	0	0	0	0	0	14	214	412	560	647	665	615	502	332	135	4	0	0	0	0	0	0	171	665	0
6	0	0	0	0	0	0	0	30	219	415	562	650	667	617	505	338	141	4	0	0	0	0	0	0	173	667	0
7	0	0	0	0	0	0	0	20	173	288	456	696	677	576	495	235	60	7	0	0	0	0	0	0	153	696	0
8	0	0	0	0	0	0	0	11	188	401	544	634	655	607	497	333	139	4	0	0	0	0	0	0	167	655	0
9	0	0	0	0	0	0	0	9	90	266	296	398	391	483	507	336	147	10	0	0	0	0	0	0	122	507	0
10	0	0	0	0	0	0	0	25	203	394	545	632	648	605	496	333	144	11	0	0	0	0	0	0	168	648	0
11	0	0	0	0	0	0	0	27	205	397	544	630	655	612	481	340	153	8	0	0	0	0	0	0	169	655	0
12	0	0	0	0	0	0	0	19	85	236	527	644	663	619	513	221	62	9	0	0	0	0	0	0	150	663	0
13	0	0	0	0	0	0	0	27	215	416	566	654	672	628	519	354	153	6	0	0	0	0	0	0	175	672	0
14	0	0	0	0	0	0	0	28	219	420	--	--	688	643	536	369	159	5	0	0	0	0	0	0	139	688	0
15	0	0	0	0	0	0	0	29	219	420	574	666	688	644	534	366	158	6	0	0	0	0	0	0	179	688	0
16	0	0	0	0	0	0	0	29	217	421	578	673	692	641	533	372	165	6	0	0	0	0	0	0	180	692	0
17	0	0	0	0	0	0	0	30	223	425	579	672	695	653	545	379	169	6	0	0	0	0	0	0	182	695	0
18	0	0	0	0	0	0	0	31	223	425	581	673	698	656	545	367	137	7	0	0	0	0	0	0	181	698	0
19	0	0	0	0	0	0	0	28	141	403	481	645	649	553	531	373	90	16	0	0	0	0	0	0	163	649	0
20	0	0	0	0	0	0	0	20	170	383	541	675	697	654	550	383	181	11	0	0	0	0	0	0	178	697	0
21	0	0	0	0	0	0	0	32	222	432	590	677	697	641	548	363	147	16	0	0	0	0	0	0	182	697	0
22	0	0	0	0	0	0	0	34	106	324	586	702	665	652	534	385	189	13	0	0	0	0	0	0	175	702	0
23	0	0	0	0	0	0	0	24	222	425	590	679	631	551	471	337	175	15	0	0	0	0	0	0	172	679	0
24	0	0	0	0	0	0	0	11	126	242	445	406	504	474	406	238	114	17	0	0	0	0	0	0	124	504	0
25	0	0	0	0	0	0	0	5	101	418	566	658	684	643	541	382	158	24	0	0	0	0	0	0	174	684	0
26	0	0	0	0	0	0	0	33	220	423	575	671	699	661	559	399	205	16	0	0	0	0	0	0	186	699	0
27	0	0	0	0	0	0	0	4	155	301	583	635	610	665	568	410	214	20	0	0	0	0	0	0	173	665	0
28	0	0	0	0	0	0	0	38	236	439	599	697	723	683	578	415	197	13	0	0	0	0	0	0	192	723	0
29	0	0	0	0	0	0	0	40	240	443	599	691	717	603	508	444	222	28	0	0	0	0	0	0	189	717	0
30	0	0	0	0	0	0	0	26	97	271	554	657	719	677	525	358	193	26	0	0	0	0	0	0	171	719	0
31	0	0	0	0	0	0	0	10	46	55	84	207	406	231	332	152	67	16	0	0	0	0	0	0	67	406	0
Avg	0	0	0	0	0	0	0	23	177	366	524	620	642	598	505	336	145	11	0	0	0	0	0	0	163	--	--
Max	0	0	0	0	0	0	0	40	240	443	599	702	723	683	578	444	222	28	0	0	0	0	0	0	--	723	--
Min	0	0	0	0	0	0	0	4	46	55	84	207	391	231	332	152	60	3	0	0	0	0	0	0	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Feb 2014

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	13	217	459	446	674	174	210	192	163	171	37	0	0	0	0	0	0	115	674	0
2	0	0	0	0	0	0	0	46	254	459	618	718	746	705	570	365	143	26	0	0	0	0	0	0	194	746	0
3	0	0	0	0	0	0	0	14	222	512	663	677	456	226	199	233	96	17	0	0	0	0	0	0	138	677	0
4	0	0	0	0	0	0	0	41	250	458	629	573	226	345	315	242	214	43	0	0	0	0	0	0	139	629	0
5	0	0	0	0	0	0	0	12	58	242	328	164	127	194	402	273	139	32	0	0	0	0	0	0	82	402	0
6	0	0	0	0	0	0	0	10	100	165	325	460	332	307	352	182	67	20	0	0	0	0	0	0	97	460	0
7	0	0	0	0	0	0	0	4	65	240	214	417	385	418	567	409	278	30	0	0	0	0	0	0	126	567	0
8	0	0	0	0	0	0	0	33	199	422	585	704	751	716	605	449	256	42	0	0	0	0	0	0	198	751	0
9	0	0	0	0	0	0	0	58	265	473	634	731	763	723	602	460	256	40	0	0	0	0	0	0	209	763	0
10	0	0	0	0	0	0	0	62	266	445	633	723	754	726	628	463	249	45	0	0	0	0	0	0	208	754	0
11	0	0	0	0	0	0	0	67	281	501	653	759	791	726	618	384	272	42	0	0	0	0	0	0	212	791	0
12	0	0	0	0	0	0	0	66	287	498	661	755	755	716	635	460	230	48	0	0	0	0	0	0	213	755	0
13	0	0	0	0	0	0	0	69	287	496	658	758	772	727	621	466	275	51	0	0	0	0	0	0	216	772	0
14	0	0	0	0	0	0	0	75	289	494	643	750	793	745	576	450	295	59	0	0	0	0	0	0	215	793	0
15	0	0	0	0	0	0	0	77	300	514	678	767	759	765	656	472	239	62	0	0	0	0	0	0	220	767	0
16	0	0	0	0	0	0	0	35	286	503	647	713	613	644	598	268	142	48	0	0	0	0	0	0	187	713	0
17	0	0	0	0	0	0	0	78	306	523	687	784	810	768	663	497	291	65	0	0	0	0	0	0	228	810	0
18	0	0	0	0	0	0	0	84	296	491	602	736	645	722	633	468	262	64	0	0	0	0	0	0	209	736	0
19	0	0	0	0	0	0	0	46	159	301	359	543	507	597	515	422	273	70	1	0	0	0	0	0	158	597	0
20	0	0	0	0	0	0	0	93	309	540	706	811	839	796	635	490	288	100	0	0	0	0	0	0	234	839	0
21	0	0	0	0	0	0	0	36	180	365	526	754	523	624	610	521	245	86	1	0	0	0	0	0	186	754	0
22	0	0	0	0	0	0	0	91	323	536	697	807	830	777	553	302	188	57	1	0	0	0	0	0	215	830	0
23	0	0	0	0	0	0	0	48	244	549	736	820	842	631	492	377	298	64	0	0	0	0	0	0	212	842	0
24	0	0	0	0	0	0	0	46	179	496	666	814	833	780	580	360	161	37	1	0	0	0	0	0	206	833	0
25	0	0	0	0	0	0	0	25	99	165	364	409	367	303	309	248	139	25	0	0	0	0	0	0	102	409	0
26	0	0	0	0	0	0	0	106	332	541	702	805	820	776	460	538	309	91	2	0	0	0	0	0	228	820	0
27	0	0	0	0	0	0	0	108	338	549	699	797	825	737	443	242	232	103	1	0	0	0	0	0	211	825	0
28	0	0	0	0	0	0	0	78	373	517	710	779	843	699	401	156	147	39	0	0	0	0	0	0	198	843	0
Avg	0	0	0	0	0	0	0	54	242	445	588	686	639	611	515	370	220	52	0	0	0	0	0	0	184	--	--
Max	0	0	0	0	0	0	0	108	373	549	736	820	843	796	663	538	309	103	2	0	0	0	0	0	--	843	--
Min	0	0	0	0	0	0	0	4	58	165	214	164	127	194	192	156	67	17	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Mar 2014

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	2	6	21	11	60	61	75	390	240	335	133	3	0	0	0	0	0	56	390	0
2	0	0	0	0	0	0	1	61	121	524	488	316	777	831	661	397	154	31	2	0	0	0	0	0	182	831	0
3	0	0	0	0	0	0	0	101	357	401	719	839	718	501	638	451	305	110	6	0	0	0	0	0	214	839	0
4	0	0	0	0	0	0	0	42	148	339	464	643	793	747	446	474	260	98	3	0	0	0	0	0	186	793	0
5	0	0	0	0	0	0	1	155	402	605	676	850	842	587	642	558	353	115	3	0	0	0	0	0	241	850	0
6	0	0	0	0	0	0	0	44	176	430	725	597	717	623	453	281	135	78	5	0	0	0	0	0	178	725	0
7	0	0	0	0	0	0	1	120	387	594	758	855	883	841	735	566	352	121	2	0	0	0	0	0	259	883	0
8	0	0	0	0	0	0	3	166	409	623	719	899	907	868	746	590	375	133	3	0	0	0	0	0	268	907	0
9	0	0	--	0	0	0	3	180	431	652	811	904	924	879	764	592	374	132	3	0	0	0	0	0	289	924	0
10	0	0	0	0	0	0	4	185	427	639	802	892	914	862	759	592	377	137	5	0	0	0	0	0	275	914	0
11	0	0	0	0	0	0	5	178	420	633	796	892	917	872	758	592	319	97	6	0	0	0	0	0	270	917	0
12	0	0	0	0	0	0	6	182	425	638	803	896	916	862	745	602	353	76	4	0	0	0	0	0	271	916	0
13	0	0	0	0	0	0	6	169	386	571	784	902	810	895	581	217	195	74	4	0	0	0	0	0	233	902	0
14	0	0	0	0	0	0	11	90	363	268	409	914	679	554	496	216	164	110	5	0	0	0	0	0	178	914	0
15	0	0	0	0	0	0	8	197	441	655	824	920	944	902	784	609	394	152	5	0	0	0	0	0	285	944	0
16	0	0	0	0	0	0	14	213	462	677	833	928	947	898	783	614	395	154	5	0	0	0	0	0	288	947	0
17	0	0	0	0	0	0	8	192	395	649	836	921	940	905	783	592	393	161	10	0	0	0	0	0	283	940	0
18	0	0	0	0	0	0	19	201	469	687	843	938	957	884	732	534	356	118	10	0	0	0	0	0	281	957	0
19	0	0	0	0	0	0	19	226	475	689	848	934	954	908	794	619	400	162	5	0	0	0	0	0	293	954	0
20	0	0	0	0	0	0	22	204	440	608	755	864	906	839	637	413	322	111	9	0	0	0	0	0	255	906	0
21	0	0	0	0	0	0	23	233	476	686	847	934	959	914	794	623	406	152	10	0	0	0	0	0	294	959	0
22	0	0	0	0	0	0	14	185	393	630	694	691	775	914	793	622	405	170	5	0	0	0	0	0	262	914	0
23	0	0	0	0	0	0	30	242	462	694	845	930	863	861	788	620	337	159	10	0	0	0	0	0	285	930	0
24	0	0	0	0	0	0	30	239	484	686	841	939	956	904	792	593	247	125	13	0	0	0	0	0	285	956	0
25	0	0	0	0	0	0	31	243	483	689	846	771	881	440	573	215	133	91	14	0	0	0	0	0	225	881	0
26	0	0	0	0	0	0	13	200	485	700	856	944	595	568	572	557	230	104	11	0	0	0	0	0	243	944	0
27	0	0	0	0	0	0	33	250	495	702	860	887	970	872	766	584	270	185	13	0	0	0	0	0	287	970	0
28	0	0	0	0	0	0	40	256	499	710	865	958	974	923	805	628	391	148	15	0	0	0	0	0	300	974	0
29	0	0	0	0	0	0	45	262	512	722	880	966	983	933	815	642	418	186	13	0	0	0	0	0	307	983	0
30	0	0	0	0	0	0	17	118	255	379	468	572	729	757	496	545	321	213	18	0	0	0	0	0	204	757	0
31	0	0	0	0	0	0	52	283	525	736	892	981	996	946	827	648	429	189	16	0	0	0	0	0	313	996	0
Avg	0	0	0	0	0	0	15	175	394	588	735	824	845	786	689	517	319	130	8	0	0	0	0	0	251	--	--
Max	0	0	0	0	0	0	52	283	525	736	892	981	996	946	827	648	429	213	18	0	0	0	0	0	--	996	--
Min	0	0	0	0	0	0	0	2	6	21	11	60	61	75	390	215	133	31	2	0	0	0	0	0	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, RH_Percent"
Month: Jan 2014

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	30	32	32	34	35	37	40	40	34	28	23	20	17	18	21	26	30	28	25	25	25	25	27	23	28	40	17
2	22	22	26	27	25	22	21	21	23	22	21	21	19	19	19	20	22	25	25	25	26	27	30	32	23	32	19
3	33	33	34	34	35	36	37	36	33	31	29	27	25	22	19	19	21	32	34	35	37	41	38	40	32	41	19
4	39	37	43	44	43	44	43	48	48	44	37	32	32	30	30	31	34	39	43	45	47	45	34	39	40	48	30
5	44	38	29	32	30	29	32	30	22	16	14	12	10	9	8	11	23	30	31	18	13	10	11	12	21	44	8
6	11	11	10	10	10	11	11	10	8	7	7	6	6	7	8	8	9	10	12	12	12	12	12	13	10	13	6
7	12	12	11	11	11	11	11	11	11	12	12	12	12	12	11	13	15	16	17	17	17	18	20	21	14	21	11
8	23	23	23	22	23	25	23	20	22	18	14	14	15	14	18	18	20	22	26	30	29	28	27	27	22	30	14
9	24	25	21	21	22	22	25	27	27	26	25	21	20	17	17	18	21	24	27	29	31	31	32	32	24	32	17
10	32	35	34	37	37	37	35	34	33	28	27	28	28	27	26	27	30	34	35	38	41	38	35	35	33	41	26
11	40	40	42	44	47	44	44	44	36	30	27	24	23	23	23	23	22	26	28	30	31	34	32	32	33	47	22
12	33	33	34	35	36	35	39	39	39	38	32	30	27	27	27	30	35	38	39	36	32	35	36	31	34	39	27
13	22	19	19	17	17	18	19	17	16	15	14	13	13	20	17	17	19	20	20	22	25	24	23	24	19	25	13
14	28	27	23	24	26	27	22	19	19	18	--	--	14	12	10	10	10	12	12	14	15	15	16	17	18	28	10
15	19	20	21	21	21	21	20	19	16	15	16	16	14	13	13	12	17	20	21	24	22	20	23	22	19	24	12
16	21	22	26	25	24	19	16	16	16	14	13	14	13	11	10	9	8	8	8	9	10	11	12	12	15	26	8
17	12	12	12	12	12	12	13	14	13	13	13	12	10	9	8	9	9	11	13	13	13	13	14	18	12	18	8
18	18	17	17	17	19	19	18	17	17	15	13	12	11	11	11	13	15	14	14	15	16	16	15	15	15	19	11
19	15	15	16	16	17	18	18	18	18	17	16	15	14	14	14	12	14	16	16	15	15	17	20	20	16	20	12
20	20	22	23	23	25	27	28	29	26	20	17	15	13	13	14	14	15	19	22	24	25	24	15	16	20	29	13
21	12	13	15	17	15	15	17	17	16	15	15	14	14	13	12	11	10	14	14	14	14	15	15	16	14	17	10
22	15	16	16	17	17	17	18	17	18	17	16	13	11	13	13	13	13	17	19	21	22	24	26	28	17	28	11
23	27	27	26	28	29	31	31	33	30	24	21	19	19	15	17	16	16	16	18	20	15	19	24	25	23	33	15
24	27	29	30	31	32	33	34	35	33	32	30	29	27	25	25	24	25	25	25	26	25	26	26	25	28	35	24
25	25	24	24	24	24	25	25	27	28	23	20	19	18	18	19	18	20	22	23	24	25	25	25	26	23	28	18
26	28	28	29	32	32	29	29	30	25	22	21	22	21	21	20	19	19	21	24	25	24	24	26	27	25	32	19
27	28	28	27	27	26	26	24	26	28	26	23	27	27	24	23	16	15	17	19	21	23	25	27	28	24	28	15
28	30	34	37	39	40	41	39	35	31	27	22	16	13	20	20	20	22	24	26	27	29	28	21	20	27	41	13
29	20	20	20	21	22	23	23	23	20	18	17	14	14	15	15	14	14	17	18	20	21	19	15	15	18	23	14
30	14	14	15	16	16	17	20	21	21	21	19	15	13	14	15	16	18	20	21	23	23	23	22	21	18	23	13
31	22	23	24	24	25	26	28	30	31	33	34	36	41	44	45	47	45	47	52	53	50	48	50	55	38	55	22
Avg	24	24	24	25	26	26	26	26	25	22	20	19	18	18	18	18	20	22	23	24	24	24	24	25	23	--	--
Max	44	40	43	44	47	44	44	48	48	44	37	36	41	44	45	47	45	47	52	53	50	48	50	55	--	55	--
Min	11	11	10	10	10	11	11	10	8	7	7	6	6	7	8	8	8	8	8	9	10	10	11	12	--	--	6

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, RH_Percent"
Month: Feb 2014

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	56	56	57	58	62	67	70	70	64	50	53	51	48	46	47	44	43	45	45	46	46	48	44	50	53	70	43
2	55	56	49	51	49	51	52	50	41	34	33	32	32	29	26	25	26	27	28	29	29	30	33	32	37	56	25
3	33	35	33	34	34	34	35	38	33	29	25	25	24	26	28	28	30	35	36	39	42	34	35	39	33	42	24
4	40	41	42	46	47	49	51	54	47	49	50	49	51	48	47	46	45	45	51	55	57	59	59	59	49	59	40
5	59	57	57	54	54	57	55	55	53	48	44	45	55	68	59	55	53	53	58	63	67	69	67	67	57	69	44
6	69	70	72	73	72	74	74	69	68	67	57	48	45	43	42	42	41	43	45	47	48	50	49	49	57	74	41
7	48	52	54	59	63	62	59	61	68	66	66	60	57	51	46	44	42	49	52	55	59	62	63	63	57	68	42
8	64	65	67	66	67	68	70	69	61	52	42	37	33	31	32	30	28	35	40	42	46	46	45	48	49	70	28
9	48	49	50	52	53	53	52	55	48	39	36	32	29	30	30	30	30	35	38	42	45	44	46	46	42	55	29
10	43	44	46	47	48	49	49	46	40	37	30	27	25	25	25	25	25	30	34	35	36	37	40	45	37	49	25
11	45	48	50	48	34	31	31	31	28	27	24	21	19	17	19	21	21	24	25	25	27	27	31	33	29	50	17
12	33	32	32	36	37	34	29	23	22	20	19	17	13	12	15	16	17	17	17	18	18	20	22	23	23	37	12
13	21	22	24	24	22	25	25	26	23	18	17	17	16	16	15	15	15	18	19	21	22	25	25	24	21	26	15
14	25	24	25	25	26	26	28	27	25	20	17	16	15	15	15	15	15	16	19	20	20	22	22	18	21	28	15
15	19	17	19	18	21	21	23	24	23	19	15	14	11	12	11	9	10	12	15	17	19	12	12	14	16	24	9
16	16	16	16	17	19	20	20	20	18	15	13	12	12	11	11	12	14	15	17	18	20	20	20	18	16	20	11
17	20	21	22	23	24	26	26	25	22	18	16	14	11	9	9	9	9	11	12	14	17	17	16	16	17	26	9
18	17	20	20	21	24	24	25	24	24	20	19	18	17	16	15	15	15	17	19	20	23	21	18	21	20	25	15
19	23	26	28	28	29	30	30	30	30	26	27	23	21	20	19	19	16	18	21	23	24	23	23	25	24	30	16
20	27	28	27	15	14	11	8	14	15	16	15	12	11	10	8	7	8	8	9	10	10	12	14	16	14	28	7
21	15	15	15	15	17	17	16	16	14	14	11	9	9	8	8	8	8	8	10	11	12	12	13	13	12	17	8
22	13	13	15	15	15	15	16	17	15	13	11	11	10	9	9	10	11	12	13	14	14	16	17	17	13	17	9
23	18	19	18	19	19	18	19	21	20	14	12	11	9	10	10	11	11	11	13	14	15	15	17	18	15	21	9
24	19	20	21	22	23	25	27	25	22	17	15	14	15	14	13	14	16	17	19	20	23	24	22	22	19	27	13
25	22	22	25	26	26	27	28	27	29	27	24	21	21	20	21	21	23	23	25	28	28	29	30	32	25	32	20
26	32	34	37	39	39	40	44	43	38	33	31	28	26	24	24	23	22	24	27	29	29	27	30	32	31	44	22
27	33	35	38	44	49	52	57	52	48	47	44	38	36	37	39	41	40	40	41	44	43	42	42	43	43	57	33
28	45	48	49	56	56	59	57	58	44	39	36	33	30	27	27	30	32	33	35	35	35	40	45	46	41	59	27
Avg	34	35	36	37	37	38	38	38	35	31	29	26	25	24	24	24	24	26	28	30	31	32	32	33	31	--	--
Max	69	70	72	73	72	74	74	70	68	67	66	60	57	68	59	55	53	53	58	63	67	69	67	67	--	74	--
Min	13	13	15	15	14	11	8	14	14	13	11	9	9	8	8	7	8	8	9	10	10	12	12	13	--	--	7

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, RH_Percent"
Month: Mar 2014

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	43	42	47	65	86	86	93	97	98	98	99	93	97	99	91	79	72	77	74	63	62	67	84	96	79	99	42
2	91	92	96	97	97	98	98	98	93	82	76	75	62	53	52	51	54	63	69	72	75	79	78	75	78	98	51
3	76	77	75	74	75	79	84	80	65	56	54	49	46	44	46	41	43	48	53	54	55	63	64	61	61	84	41
4	60	59	57	62	63	65	67	68	63	54	46	49	46	46	48	47	44	47	52	53	55	61	59	59	55	68	44
5	63	64	67	69	68	68	66	61	42	37	34	32	28	25	23	21	17	22	28	31	31	31	29	29	41	69	17
6	29	31	35	36	36	38	36	32	30	29	25	20	19	16	20	20	22	24	28	33	36	41	32	22	29	41	16
7	25	27	30	34	36	39	41	42	34	30	30	32	32	32	29	31	34	40	44	45	43	44	49	55	36	55	25
8	55	61	59	40	33	31	33	32	30	30	27	23	20	19	18	17	16	16	15	21	26	35	40	41	31	61	15
9	45	49	--	43	52	54	54	47	38	28	22	19	17	17	17	15	15	17	20	23	25	25	27	28	30	54	15
10	28	30	32	33	38	39	38	35	31	26	19	18	18	17	16	15	15	15	17	20	22	24	25	28	25	39	15
11	29	28	30	27	28	31	32	30	26	27	26	25	24	23	24	24	23	27	27	28	30	30	33	32	28	33	23
12	33	36	26	20	21	20	22	18	17	17	18	20	19	18	17	17	17	20	21	23	25	25	26	26	22	36	17
13	26	26	27	27	28	29	29	28	26	25	22	21	20	18	19	20	20	21	23	27	25	30	28	27	25	30	18
14	27	30	33	38	43	45	47	45	34	32	34	30	30	31	33	52	38	34	39	45	53	55	56	61	40	61	27
15	61	60	55	43	44	51	46	40	38	39	36	18	14	9	9	10	7	7	9	8	6	6	8	9	26	61	6
16	11	11	12	13	13	14	15	14	14	13	12	10	9	9	10	11	11	12	13	14	15	16	15	16	13	16	9
17	16	17	19	19	20	22	23	23	21	15	12	11	10	10	9	9	9	9	10	10	11	11	12	13	14	23	9
18	13	14	15	17	20	23	25	20	18	16	13	11	9	10	11	11	9	7	8	9	9	10	10	13	14	25	7
19	14	15	16	16	18	20	20	16	10	11	11	10	9	9	9	9	10	10	11	12	16	16	17	17	13	20	9
20	18	16	17	15	18	24	25	22	19	14	10	10	10	10	11	11	12	12	12	13	15	13	14	17	15	25	10
21	17	18	19	20	21	22	23	22	19	15	12	13	12	11	11	11	11	12	14	16	20	21	23	22	17	23	11
22	25	24	25	25	26	29	28	27	25	20	18	14	14	13	13	12	13	15	17	19	22	22	23	25	20	29	12
23	22	22	26	27	30	31	32	27	24	19	16	16	15	16	14	12	12	13	15	17	17	21	22	22	20	32	12
24	23	24	26	25	28	27	30	29	24	17	16	15	15	14	14	14	15	14	15	16	16	20	21	20	20	30	14
25	24	25	25	24	20	19	17	16	13	12	12	12	12	12	13	13	17	25	22	23	26	30	32	35	20	35	12
26	37	39	40	41	42	42	40	28	25	26	28	29	29	29	28	31	33	32	28	35	37	39	39	39	34	42	25
27	42	46	50	54	61	61	58	52	50	45	42	39	35	33	31	32	33	35	39	39	40	40	40	41	43	61	31
28	46	44	42	41	42	49	50	41	37	33	29	25	23	22	22	21	20	22	23	24	25	26	27	29	32	50	20
29	32	33	36	36	36	37	36	33	26	23	20	14	15	13	10	7	7	8	12	16	17	18	21	21	22	37	7
30	22	23	22	23	25	24	24	22	24	18	18	18	19	18	19	18	20	18	19	20	21	20	22	22	21	25	18
31	22	21	22	26	28	30	30	24	21	17	12	12	10	9	9	10	9	9	10	10	11	12	13	11	16	30	9
Avg	35	36	36	36	39	40	41	38	33	30	27	25	24	23	22	22	22	24	25	27	29	31	32	33	30	--	--
Max	91	92	96	97	97	98	98	98	98	98	99	93	97	99	91	79	72	77	74	72	75	79	84	96	--	99	--
Min	11	11	12	13	13	14	15	14	10	11	10	10	9	9	9	7	7	7	8	8	6	6	8	9	--	--	6

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Jan 2014

Hour of day

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

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Feb 2014

Hour of day

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

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Mar 2014

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	0.02	0.056	0.004	0.697	0.63	0.174	0.224	0.426	0.032	0.126	0.028	0	0	0	0	0	0	0	0	0.284	0.28	2.98	0.697	0
2	0.32	0.103	0	0.024	0.036	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.483	0.32	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
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.32	0.103	0	0.044	0.092	0.004	0.697	0.63	0.174	0.224	0.426	0.032	0.126	0.028	0	0	0	0	0	0	0	0	0.284	0.28	3.46	--	--
Max	0.32	0.103	0	0.024	0.056	0.004	0.697	0.63	0.174	0.224	0.426	0.032	0.126	0.028	0	0	0	0	0	0	0	0	0.284	0.28	--	0.697	--
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

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Jan 2014

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	655	655	655	655	654	654	655	655	655	656	656	655	655	654	654	654	654	655	655	655	655	655	655	655	655	656	654
2	656	656	656	656	656	656	656	656	657	657	657	657	656	655	655	655	655	655	655	655	655	655	655	655	656	657	655
3	654	654	654	654	654	653	653	654	654	654	654	654	653	652	652	652	651	651	651	651	651	651	651	651	653	654	651
4	651	651	651	651	651	651	651	651	652	652	652	652	651	651	651	651	651	651	651	652	652	652	653	653	652	653	651
5	653	653	653	653	653	653	654	654	655	655	655	655	655	654	654	654	654	654	655	655	656	656	656	656	654	656	653
6	656	656	656	656	656	656	657	657	658	658	658	657	657	656	656	656	656	656	656	656	656	656	656	656	656	658	656
7	655	655	655	656	655	655	655	655	655	656	656	655	654	654	653	654	653	653	653	653	654	654	654	653	654	656	653
8	653	653	653	653	653	653	653	653	653	654	654	654	653	653	653	653	653	653	653	653	654	654	654	653	653	654	653
9	653	653	653	653	653	653	653	653	653	654	654	653	652	652	651	651	652	652	651	652	652	652	652	652	652	654	651
10	652	652	652	652	652	652	653	653	654	654	654	654	654	653	653	653	653	653	654	654	654	655	655	655	653	655	652
11	655	655	655	655	655	655	655	656	656	657	657	656	656	655	655	655	654	654	654	654	654	654	654	653	655	657	653
12	653	652	652	652	652	652	652	653	653	653	654	654	653	653	653	653	653	654	654	655	655	656	656	657	653	657	652
13	657	656	657	657	657	657	658	658	659	659	659	659	659	658	658	658	658	658	658	658	658	658	658	658	658	659	656
14	658	658	658	658	658	658	658	658	658	659	--	--	659	658	658	658	658	658	659	659	659	659	659	659	658	659	658
15	659	659	659	659	659	659	659	659	659	660	660	659	659	658	657	657	657	657	657	657	657	657	657	656	658	660	656
16	656	656	656	656	655	655	656	656	656	656	657	656	655	655	654	655	654	654	655	655	655	655	655	655	655	657	654
17	655	655	655	655	655	655	655	656	657	657	657	657	656	655	655	655	655	655	655	655	655	655	655	655	655	657	655
18	655	655	655	655	655	655	655	655	655	656	656	656	656	655	655	655	655	655	655	655	655	656	656	656	655	656	655
19	656	656	656	656	656	656	656	657	657	657	657	657	656	656	655	656	656	655	655	656	656	656	656	656	656	657	655
20	655	655	655	655	655	655	656	656	656	657	657	657	656	656	656	656	656	656	656	657	657	657	658	658	656	658	655
21	658	658	658	657	657	657	658	658	658	659	659	658	657	657	656	656	656	656	656	656	656	655	655	655	657	659	655
22	655	655	654	654	654	653	653	653	653	653	653	653	652	651	651	651	651	650	650	650	650	651	651	651	652	655	650
23	651	650	650	650	650	651	651	652	652	653	653	653	653	653	653	653	653	654	654	655	655	656	656	657	653	657	650
24	657	658	658	658	658	658	658	659	659	659	660	660	659	658	658	658	658	658	658	658	658	658	658	659	658	660	657
25	658	658	658	658	658	657	657	657	657	658	658	657	657	656	656	656	655	655	655	655	655	655	655	655	656	658	655
26	654	654	654	654	654	654	654	654	654	654	655	654	654	653	653	653	652	652	652	652	652	652	652	652	653	655	652
27	652	652	652	652	652	652	652	652	653	653	653	653	653	652	652	651	652	652	652	652	653	653	653	653	652	653	651
28	653	653	653	653	653	653	653	654	654	654	655	654	654	653	653	653	653	653	653	654	654	654	654	654	653	655	653
29	654	654	654	654	653	653	654	654	654	654	655	654	654	653	653	652	652	652	652	652	652	652	652	652	653	655	652
30	652	652	651	651	651	651	651	651	651	652	652	652	651	650	650	649	649	649	649	649	649	649	649	649	650	652	649
31	649	649	648	648	648	648	648	648	649	649	649	649	649	648	648	648	648	648	648	648	648	648	648	648	648	649	648
Avg	654	654	654	654	654	654	654	655	655	655	655	655	655	654	654	654	654	654	654	654	654	654	654	654	654	--	--
Max	659	659	659	659	659	659	659	659	659	660	660	660	659	658	658	658	658	658	659	659	659	659	659	659	--	660	--
Min	649	649	648	648	648	648	648	648	649	649	649	649	649	648	648	648	648	648	648	648	648	648	648	648	--	--	648

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Feb 2014

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

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Mar 2014

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	649	649	649	649	649	649	649	649	650	650	650	651	650	650	649	649	649	649	649	649	649	649	650	650	649	651	649
2	651	651	651	652	652	652	653	653	654	655	655	655	655	654	654	654	654	654	654	654	654	655	655	655	654	655	651
3	654	654	653	652	652	653	653	653	653	654	653	653	653	653	652	652	652	652	652	652	653	653	653	652	653	654	652
4	652	652	652	652	652	652	652	651	651	651	651	651	651	651	650	650	650	651	651	651	651	652	652	652	651	652	650
5	652	652	652	652	652	652	653	653	654	654	654	655	654	654	654	654	654	654	654	654	654	654	654	655	654	655	652
6	654	654	654	653	653	654	654	654	654	654	654	654	654	653	653	652	652	651	651	651	651	652	651	651	653	654	651
7	651	651	651	650	650	650	650	650	651	651	651	651	651	650	650	650	649	650	650	650	650	651	651	651	650	651	649
8	651	651	651	651	652	652	652	653	653	654	654	654	654	654	654	653	653	654	654	654	655	655	656	656	653	656	651
9	656	656	--	657	657	657	657	658	658	658	657	657	657	656	656	655	655	655	655	655	656	656	656	656	656	658	655
10	656	656	655	655	655	655	655	655	655	655	656	655	655	654	654	653	653	653	653	653	653	653	652	652	654	656	652
11	652	652	652	652	652	652	652	652	653	653	653	653	652	652	651	651	651	651	652	652	652	652	652	652	652	653	651
12	652	652	652	652	652	653	653	654	654	654	654	654	654	653	653	653	653	653	653	653	653	653	653	653	653	654	652
13	653	653	652	652	652	652	652	652	652	652	652	652	651	651	650	650	650	649	649	649	649	650	650	650	651	653	649
14	650	650	650	650	650	651	651	652	652	653	653	653	653	653	653	653	652	653	653	653	653	654	654	654	652	654	650
15	654	654	653	653	653	653	654	654	655	655	655	655	655	654	654	654	653	653	654	654	655	656	656	656	654	656	653
16	656	656	656	656	657	657	658	658	659	659	659	658	658	657	657	656	656	656	656	656	656	656	656	656	657	659	656
17	655	655	654	653	653	653	653	653	653	652	652	651	651	650	649	648	647	646	646	646	646	646	646	646	650	655	646
18	646	646	646	646	646	647	647	648	648	649	649	650	649	649	649	649	649	649	649	650	650	650	650	651	648	651	646
19	651	651	651	651	652	652	653	653	654	654	654	655	654	654	654	654	654	654	654	654	654	654	654	654	653	655	651
20	654	654	654	654	654	654	654	654	654	654	654	654	653	653	652	652	652	651	651	651	651	651	651	651	653	654	651
21	651	651	651	650	650	650	651	651	652	652	652	652	652	651	651	651	651	651	651	651	651	651	651	651	651	652	650
22	651	651	651	651	651	651	651	652	652	653	653	653	653	652	652	652	652	652	652	652	653	653	653	653	652	653	651
23	653	653	653	653	653	654	654	654	655	655	655	655	655	654	654	653	653	653	653	653	653	654	654	654	654	655	653
24	654	653	653	653	653	653	654	654	655	655	655	655	654	654	653	653	653	653	653	653	653	653	653	653	653	655	653
25	652	652	652	651	651	651	651	652	652	652	652	651	651	650	649	649	649	649	649	649	649	649	649	649	650	652	649
26	649	649	648	648	648	649	649	649	649	649	649	649	649	648	648	647	647	647	647	647	648	648	649	649	648	649	647
27	649	649	649	649	649	649	650	650	651	651	651	651	651	651	651	650	650	650	650	651	651	652	652	652	650	652	649
28	652	652	652	652	652	653	653	654	655	655	655	655	655	655	654	654	654	654	654	655	655	655	655	655	654	655	652
29	656	655	655	655	655	655	655	656	656	656	656	656	655	654	654	653	653	653	653	653	653	653	653	652	654	656	652
30	652	652	651	651	651	651	651	651	651	651	652	652	651	651	651	650	650	650	650	651	651	651	651	651	651	652	650
31	651	651	651	651	651	651	652	652	653	653	653	653	652	652	652	651	651	651	650	650	651	651	651	651	651	653	650
Avg	652	652	652	652	652	652	652	653	653	653	653	653	653	652	652	652	652	652	652	652	652	652	652	652	652	--	--
Max	656	656	656	657	657	657	658	658	659	659	659	658	658	657	657	656	656	656	656	656	656	656	656	656	--	659	--
Min	646	646	646	646	646	647	647	648	648	649	649	649	649	648	648	647	647	646	646	646	646	646	646	646	--	--	646

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Jan 2014

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	0.6	1.8	0.9	1.0	0.8	0.8	1.9	1.9	1.8	0.9	1.1	1.9	2.4	2.3	2.3	2.5	1.3	0.9	0.9	5.8	8.3	7.6	4.1	2.3	8.3	0.6
2	4.2	3.2	5.5	4.2	5.9	6.5	6.3	7.2	6.0	5.2	7.4	8.5	4.1	3.7	2.5	2.6	2.0	3.1	5.2	5.4	5.1	4.3	4.9	6.1	5.0	8.5	2.0
3	4.3	4.2	6.1	4.3	4.6	5.3	5.4	5.2	4.1	3.5	2.6	3.0	2.7	1.9	2.3	2.3	2.2	1.7	0.3	0.6	0.2	1.3	0.8	1.1	2.9	6.1	0.2
4	0.5	0.7	0.6	1.2	0.7	0.5	0.5	0.5	0.5	1.0	1.3	2.2	2.0	2.5	2.9	2.4	2.3	0.7	1.4	0.6	0.6	0.6	1.0	1.1	1.2	2.9	0.5
5	1.4	1.2	0.8	1.5	1.7	0.8	1.3	1.4	2.7	3.7	3.7	2.1	2.4	2.1	3.7	3.1	3.2	1.9	0.6	1.2	3.8	6.1	3.6	2.0	2.3	6.1	0.6
6	4.6	4.5	4.3	3.1	5.6	16.1	16.0	16.7	15.7	16.0	16.4	11.2	8.8	5.6	3.7	4.3	3.6	2.3	2.4	3.8	2.9	4.1	3.6	2.3	7.4	16.7	2.3
7	4.4	2.8	3.3	4.9	5.3	5.0	6.3	5.2	6.7	5.4	4.2	3.2	3.1	2.9	3.5	2.3	4.0	2.5	4.2	3.7	2.0	1.4	0.7	0.9	3.7	6.7	0.7
8	0.9	1.1	2.2	2.5	2.7	4.0	5.7	1.7	2.5	2.2	1.0	1.0	1.7	2.6	3.3	3.1	3.1	1.7	0.4	1.2	0.8	0.7	1.0	1.2	2.0	5.7	0.4
9	1.7	0.9	0.8	1.3	0.9	0.6	2.0	3.1	6.5	5.2	3.9	2.7	1.8	1.5	1.8	2.2	3.2	1.7	1.2	0.6	0.6	1.2	1.5	0.4	2.0	6.5	0.4
10	0.6	0.4	1.2	0.6	0.7	0.5	0.7	0.2	0.3	0.6	1.0	1.8	2.8	1.7	3.2	3.5	2.9	2.2	1.0	1.0	1.1	0.5	0.9	0.5	1.2	3.5	0.2
11	2.7	1.7	2.1	1.3	4.0	5.4	4.0	2.2	1.1	1.2	0.9	1.2	1.7	1.3	1.5	1.8	1.3	1.3	0.6	0.6	0.6	1.0	0.7	0.4	1.7	5.4	0.4
12	0.8	1.4	1.5	1.1	0.9	0.4	1.6	0.9	1.1	1.9	1.4	2.0	2.7	3.1	2.9	3.6	2.0	1.8	1.1	0.6	0.7	1.4	1.0	1.7	1.6	3.6	0.4
13	5.8	6.5	5.1	2.3	2.6	1.6	2.6	1.6	0.7	1.5	5.8	4.8	3.3	--	--	2.5	3.0	2.0	0.7	0.7	1.7	0.6	1.2	0.9	2.6	6.5	0.6
14	0.8	1.2	1.7	1.4	1.4	3.0	1.5	1.6	1.4	5.0	3.8	5.0	3.8	2.6	3.7	4.2	2.7	1.7	2.0	2.6	2.5	2.0	1.4	3.2	2.5	5.0	0.8
15	3.3	4.6	5.4	6.6	4.5	3.6	4.7	2.3	2.5	3.1	4.6	6.8	7.2	5.1	3.3	2.5	3.1	1.9	1.3	1.3	0.9	0.8	0.5	0.9	3.4	7.2	0.5
16	0.9	0.9	1.4	1.4	1.5	1.8	4.2	9.8	5.5	4.0	4.7	3.8	2.3	3.0	2.3	3.2	3.8	3.4	3.2	1.9	3.8	4.1	3.7	3.6	3.3	9.8	0.9
17	5.1	8.1	8.3	5.2	3.2	3.0	2.0	1.8	2.2	4.5	5.3	3.1	2.7	2.1	3.5	3.4	3.8	2.8	3.6	1.7	1.3	2.3	4.0	3.2	3.6	8.3	1.3
18	0.9	2.4	1.6	2.7	1.7	2.0	4.0	3.6	3.9	4.2	7.0	5.8	5.0	3.0	3.7	2.8	1.9	1.0	0.5	2.9	4.5	3.9	2.9	3.2	3.1	7.0	0.5
19	3.4	4.9	4.4	3.9	2.8	4.7	5.7	4.7	5.8	5.2	3.7	3.9	4.7	3.8	2.4	1.5	1.7	3.0	4.4	3.2	3.9	2.7	3.2	2.5	3.8	5.8	1.5
20	1.9	2.3	3.0	1.4	2.0	2.7	5.1	5.7	4.2	2.6	1.4	1.4	1.4	2.9	2.7	2.8	2.6	1.9	0.9	0.9	0.5	0.8	2.0	1.7	2.3	5.7	0.5
21	1.3	1.9	2.0	3.5	3.1	4.4	7.1	5.6	4.9	4.4	4.0	3.6	3.2	2.8	2.6	2.9	2.6	2.8	4.4	4.9	4.0	3.5	3.0	4.4	3.6	7.1	1.3
22	3.6	2.7	4.6	4.4	4.3	4.9	4.9	2.3	2.9	3.0	2.5	1.7	2.2	3.1	3.6	3.2	3.6	2.1	0.7	0.6	0.3	0.8	1.2	1.0	2.7	4.9	0.3
23	0.6	0.6	1.0	0.7	2.0	2.0	0.7	0.5	5.3	3.7	2.3	2.7	2.6	1.5	2.2	1.5	2.2	1.1	1.8	3.8	6.6	8.3	7.6	10.7	3.0	10.7	0.5
24	9.5	9.4	10.2	11.2	10.3	11.2	12.4	13.2	13.3	13.2	13.7	11.7	4.5	3.6	4.2	2.9	3.0	3.5	2.5	5.1	4.3	5.0	6.3	5.7	7.9	13.7	2.5
25	5.3	3.1	1.5	1.5	3.7	4.2	2.6	2.5	3.7	3.6	2.1	2.1	2.2	3.0	2.7	2.5	2.6	1.9	1.6	1.1	0.4	0.6	0.5	0.4	2.3	5.3	0.4
26	0.9	1.0	0.3	0.3	0.9	0.3	0.8	0.7	0.8	0.5	1.0	2.1	2.6	3.4	3.8	3.7	1.8	1.8	1.7	1.0	0.6	1.0	1.3	1.5	1.4	3.8	0.3
27	1.2	0.6	1.3	0.7	0.7	0.9	1.2	0.7	1.7	0.8	1.0	3.0	3.3	3.2	3.5	4.2	4.4	3.4	0.7	0.6	0.8	0.6	0.4	0.4	1.6	4.4	0.4
28	0.4	0.4	0.5	0.8	0.9	1.5	2.7	1.8	3.9	1.3	2.0	2.7	3.7	3.0	2.8	3.7	3.7	1.9	1.0	0.2	1.2	0.8	0.6	0.7	1.8	3.9	0.2
29	0.6	0.7	0.6	0.8	2.9	2.3	3.6	2.9	1.6	1.2	2.1	1.7	3.1	2.5	1.5	2.3	3.2	2.3	1.0	0.7	1.5	0.6	0.3	0.4	1.7	3.6	0.3
30	0.3	0.8	0.9	1.2	1.4	0.6	1.3	2.9	1.4	1.2	1.2	3.0	3.6	3.4	3.2	3.8	3.0	1.2	0.9	0.9	0.5	0.9	1.4	1.3	1.7	3.8	0.3
31	3.5	3.2	1.2	0.9	1.9	1.3	1.9	1.5	2.9	3.6	4.1	5.8	6.0	5.7	6.2	5.5	5.0	3.8	1.6	1.3	1.0	0.8	1.5	1.8	3.0	6.2	0.8
Avg	2.5	2.5	2.7	2.5	2.8	3.3	3.9	3.6	3.8	3.7	3.8	3.7	3.3	3.0	3.1	3.0	2.9	2.1	1.7	1.8	2.1	2.3	2.3	2.2	2.9	--	--
Max	9.5	9.4	10.2	11.2	10.3	16.1	16.0	16.7	15.7	16.0	16.4	11.7	8.8	5.7	6.2	5.5	5.0	3.8	5.2	5.4	6.6	8.3	7.6	10.7	--	16.7	--
Min	0.3	0.4	0.3	0.3	0.7	0.3	0.5	0.2	0.3	0.5	0.9	1.0	1.4	1.3	1.5	1.5	1.3	0.7	0.3	0.2	0.2	0.5	0.3	0.4	--	--	0.2

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Feb 2014

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	1.7	2.1	1.9	2.0	1.7	1.2	1.3	0.6	0.9	1.0	1.8	2.8	4.0	4.6	4.4	3.8	3.2	3.5	0.9	0.7	1.4	1.0	1.0	1.1	2.0	4.6	0.6
2	1.6	1.2	0.5	0.8	0.9	0.3	0.9	2.6	1.9	1.0	1.5	3.4	2.4	4.7	3.7	2.3	2.6	1.9	1.5	0.8	0.9	0.8	2.2	1.2	1.7	4.7	0.3
3	0.3	1.1	0.9	1.3	0.8	0.3	0.9	2.6	1.4	1.6	2.8	3.2	4.3	4.8	4.0	4.4	4.3	4.3	3.9	3.0	2.2	1.4	1.0	0.5	2.3	4.8	0.3
4	0.4	0.7	0.9	1.8	2.0	2.1	2.7	1.6	2.0	1.8	2.0	2.5	2.8	4.1	4.1	4.4	2.6	3.0	1.3	1.3	2.3	3.0	3.8	3.8	2.4	4.4	0.4
5	3.5	3.0	3.3	2.3	2.3	2.8	1.3	2.5	2.6	3.6	3.9	1.9	2.6	2.6	2.4	2.8	1.7	1.1	1.2	1.5	2.0	1.8	1.0	1.9	2.3	3.9	1.0
6	1.3	1.9	4.2	4.4	1.4	2.2	5.0	4.2	3.2	2.6	2.5	2.4	1.8	3.7	3.0	2.2	2.3	1.4	0.8	0.7	0.7	2.1	1.9	2.6	2.4	5.0	0.7
7	2.7	1.5	1.9	1.9	1.3	0.8	1.9	1.1	0.9	0.5	2.2	1.0	1.3	2.2	4.2	4.1	3.3	2.5	1.0	0.6	1.8	0.5	0.5	1.1	1.7	4.2	0.5
8	0.9	1.1	0.9	0.8	0.7	0.7	1.2	3.7	2.9	2.0	1.5	1.6	1.7	2.6	2.6	3.2	2.5	3.2	1.1	0.6	1.8	0.8	0.7	0.6	1.6	3.7	0.6
9	0.8	1.2	0.4	1.3	3.9	3.2	1.2	2.4	3.0	2.1	1.9	2.2	1.8	3.3	3.5	2.9	3.0	2.4	2.0	1.6	1.8	0.6	1.4	0.7	2.0	3.9	0.4
10	1.1	2.3	2.3	3.0	1.2	1.3	1.3	0.7	0.9	0.9	1.6	2.7	3.7	4.0	3.7	4.0	4.8	3.7	2.0	1.5	1.3	1.5	0.5	1.1	2.1	4.8	0.5
11	0.9	2.4	3.7	1.3	3.1	8.9	9.0	10.1	10.8	5.6	3.3	2.9	2.2	2.6	4.1	5.0	4.7	3.7	2.0	1.9	1.6	1.0	0.5	0.6	3.8	10.8	0.5
12	1.8	1.7	2.7	5.2	3.8	1.6	1.4	1.7	3.6	3.1	5.6	4.2	2.8	3.0	3.1	3.1	3.7	3.2	0.7	0.5	0.8	0.7	0.5	0.3	2.4	5.6	0.3
13	0.7	0.5	1.7	1.2	0.6	0.9	0.5	0.8	2.1	0.8	1.1	1.4	1.6	2.3	2.3	3.2	3.4	2.8	1.4	1.3	1.7	1.6	0.9	0.5	1.5	3.4	0.5
14	0.9	1.7	1.9	1.8	1.1	1.4	3.3	3.8	0.7	1.3	0.9	1.3	1.9	2.2	2.5	2.2	2.9	2.5	1.4	0.4	0.4	0.5	0.4	0.5	1.6	3.8	0.4
15	0.9	3.0	1.8	2.2	1.0	1.5	0.7	1.0	2.8	2.7	1.9	2.4	2.0	3.5	3.1	3.2	3.6	2.5	1.1	1.1	1.7	0.5	0.5	0.8	1.9	3.6	0.5
16	1.3	1.7	2.3	1.6	2.0	0.6	1.7	1.7	0.6	0.8	1.4	1.8	3.0	3.4	3.9	3.9	3.3	2.6	0.6	1.0	1.6	0.3	0.8	0.8	1.8	3.9	0.3
17	0.5	2.2	3.7	3.7	1.1	2.1	2.7	2.7	1.8	1.9	2.7	2.9	3.0	3.3	3.3	3.8	4.1	4.2	1.3	1.0	1.6	0.5	0.4	0.5	2.3	4.2	0.4
18	0.3	1.2	0.5	0.3	2.5	2.5	1.9	1.5	0.4	1.1	2.2	2.7	2.3	1.9	3.1	3.9	4.1	3.4	1.2	0.4	0.7	1.0	0.3	0.5	1.7	4.1	0.3
19	0.3	0.3	0.6	1.3	1.4	0.2	0.7	0.9	1.1	0.7	0.5	2.1	3.0	4.2	4.7	4.6	5.0	3.8	2.1	0.9	0.7	1.1	1.5	1.1	1.8	5.0	0.2
20	0.8	0.5	1.5	1.1	2.8	4.7	4.6	3.3	2.6	6.0	4.4	3.8	3.1	2.2	2.2	2.2	3.3	3.6	1.0	0.9	1.4	1.9	1.7	2.1	2.6	6.0	0.5
21	1.9	2.8	2.9	0.7	1.2	3.3	4.2	2.9	4.3	3.5	2.0	1.7	1.5	2.4	2.1	2.9	2.7	2.5	1.4	0.8	0.8	0.5	0.3	0.3	2.1	4.3	0.3
22	0.7	0.3	0.7	2.0	2.7	1.9	1.3	0.6	3.7	3.0	1.3	1.7	2.2	2.5	3.2	3.3	3.1	3.1	1.5	0.7	1.1	1.2	0.4	1.0	1.8	3.7	0.3
23	1.9	2.3	1.5	1.7	2.7	2.6	1.7	3.4	4.1	3.1	2.2	3.3	2.8	4.0	2.9	2.7	2.8	2.2	0.9	1.1	1.7	0.5	0.8	0.6	2.2	4.1	0.5
24	0.7	1.6	0.6	1.3	2.1	4.4	5.5	4.7	2.9	2.0	2.6	2.1	3.2	3.3	2.9	3.7	3.6	2.7	1.2	1.0	1.2	1.4	1.5	1.2	2.4	5.5	0.6
25	0.9	0.8	1.8	1.8	1.1	1.0	0.6	0.6	0.8	1.1	0.9	1.3	1.6	2.6	3.1	3.6	3.2	2.2	0.8	0.3	0.2	1.0	0.4	0.3	1.3	3.6	0.2
26	0.3	0.5	0.3	1.5	1.4	0.9	2.6	1.0	1.0	0.9	1.4	1.9	2.5	3.8	3.8	3.3	3.0	3.6	1.8	0.7	0.2	0.1	0.3	0.4	1.6	3.8	0.1
27	1.0	0.6	0.4	1.0	0.3	0.8	0.9	1.3	0.9	1.6	2.4	4.2	4.1	5.4	6.3	6.2	5.8	5.4	3.3	1.2	0.7	0.6	1.2	0.9	2.4	6.3	0.3
28	1.2	0.5	0.6	1.9	1.1	3.5	4.6	6.3	4.8	2.6	3.3	2.8	2.7	4.4	5.5	4.2	4.0	3.2	3.1	1.7	5.8	4.3	4.5	3.7	3.4	6.3	0.5
Avg	1.1	1.5	1.7	1.8	1.7	2.1	2.3	2.5	2.5	2.1	2.2	2.4	2.6	3.3	3.5	3.5	3.5	3.0	1.5	1.1	1.4	1.2	1.1	1.1	2.1	--	--
Max	3.5	3.0	4.2	5.2	3.9	8.9	9.0	10.1	10.8	6.0	5.6	4.2	4.3	5.4	6.3	6.2	5.8	5.4	3.9	3.0	5.8	4.3	4.5	3.8	--	10.8	--
Min	0.3	0.3	0.3	0.3	0.3	0.2	0.5	0.6	0.4	0.5	0.5	1.0	1.3	1.9	2.1	2.2	1.7	1.1	0.6	0.3	0.2	0.1	0.3	0.3	--	--	0.1

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Mar 2014

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	4.1	6.0	5.6	5.8	4.8	4.3	4.8	3.9	4.3	2.7	4.8	3.5	2.3	3.1	5.1	6.2	6.7	5.7	5.8	4.9	4.5	4.7	4.1	2.5	4.6	6.7	2.3
2	2.0	2.4	0.8	2.9	1.4	1.7	0.9	1.0	0.4	1.0	1.2	1.1	1.6	2.4	2.3	2.2	3.0	3.8	2.6	1.6	0.5	0.1	1.4	0.8	1.6	3.8	0.1
3	1.5	1.7	1.9	1.8	1.0	1.1	0.5	1.4	1.2	0.9	1.6	1.5	2.0	3.0	2.1	3.2	2.4	3.7	1.7	0.7	0.8	1.1	1.4	0.7	1.6	3.7	0.5
4	0.4	0.9	0.7	0.8	1.2	1.4	1.9	4.4	1.9	0.6	0.8	1.7	1.6	2.6	3.2	3.4	3.2	3.2	1.2	0.7	0.6	1.0	0.3	0.3	1.6	4.4	0.3
5	0.5	1.2	2.1	0.9	1.0	0.9	3.4	3.1	1.5	2.2	1.9	2.4	1.9	1.4	1.8	1.9	1.8	1.7	2.2	1.2	1.7	1.3	1.9	4.3	1.8	4.3	0.5
6	2.7	1.6	1.9	2.7	1.4	2.1	1.5	4.4	4.0	2.4	3.4	3.0	2.3	2.1	3.6	2.9	1.7	1.8	1.2	1.1	1.3	1.3	0.8	0.4	2.1	4.4	0.4
7	0.6	0.8	0.7	1.0	2.2	2.2	0.7	1.4	1.4	1.3	1.8	2.5	3.7	4.0	4.1	4.6	4.3	4.3	2.7	1.7	0.6	0.8	1.0	2.6	2.1	4.6	0.6
8	3.1	3.8	2.2	1.7	6.6	9.8	11.2	10.4	9.4	8.6	8.9	6.7	4.5	3.2	3.7	4.9	4.4	3.9	4.7	4.6	6.4	5.9	5.9	2.4	5.7	11.2	1.7
9	2.9	3.7	--	3.3	3.2	2.1	2.5	1.7	3.8	3.5	5.5	4.7	4.9	3.5	3.1	2.5	2.3	2.5	1.9	2.0	1.1	3.9	1.3	1.5	2.9	5.5	1.1
10	2.8	5.7	5.1	5.4	3.7	4.2	2.1	1.9	1.9	1.5	1.8	1.8	2.3	2.2	2.4	3.6	3.3	4.0	2.0	0.6	0.6	0.4	0.1	0.5	2.5	5.7	0.1
11	0.7	0.6	0.4	0.5	0.2	0.5	0.5	0.4	0.7	1.2	2.6	2.6	3.1	3.3	3.7	3.8	4.2	3.3	1.9	1.3	0.8	0.8	0.8	0.5	1.6	4.2	0.2
12	1.4	1.4	2.0	1.2	1.2	1.6	2.1	1.8	4.3	4.9	7.1	6.7	4.7	3.9	4.1	2.5	2.8	3.9	5.3	5.6	4.9	4.7	6.1	6.1	3.8	7.1	1.2
13	4.6	4.7	4.5	6.2	7.2	6.2	4.0	3.4	4.5	5.8	5.1	3.8	2.8	2.3	3.2	4.8	2.8	1.4	2.4	2.5	2.1	1.9	1.3	1.3	3.7	7.2	1.3
14	0.3	0.5	0.4	1.0	1.8	3.4	3.3	4.0	2.2	2.1	3.0	3.3	2.9	4.1	4.6	8.2	4.9	2.9	2.9	3.1	1.6	1.0	1.5	1.3	2.7	8.2	0.3
15	0.5	0.7	0.6	0.6	0.8	0.7	0.8	0.5	0.7	2.3	2.8	3.0	4.0	4.6	6.3	5.2	6.7	4.6	2.2	3.2	3.9	5.1	6.5	7.9	3.1	7.9	0.5
16	8.9	10.7	11.6	7.9	3.0	2.8	2.0	2.2	1.6	2.6	2.4	2.2	2.0	2.4	4.4	4.2	3.7	3.3	2.1	0.6	0.7	1.4	0.4	0.7	3.5	11.6	0.4
17	1.4	1.3	2.3	1.7	0.8	1.1	0.5	2.0	1.5	1.8	2.6	3.1	4.2	5.2	5.1	4.5	4.6	5.8	3.5	1.0	1.6	0.7	1.1	1.0	2.4	5.8	0.5
18	0.8	0.7	0.6	1.1	1.5	1.1	2.5	1.7	2.2	2.1	2.4	1.5	1.8	3.2	4.4	4.8	4.3	3.6	2.1	1.3	0.8	1.2	1.8	0.9	2.0	4.8	0.6
19	1.4	1.6	2.4	1.8	1.4	4.3	5.7	3.2	1.2	1.9	2.4	1.9	3.0	2.4	2.3	3.0	3.3	3.4	2.1	1.0	2.1	1.5	1.1	1.1	2.3	5.7	1.0
20	0.9	0.9	0.5	2.0	2.4	5.1	2.9	4.3	3.6	2.3	1.4	1.8	2.7	2.5	4.1	4.2	3.0	3.0	0.9	0.9	0.6	0.7	0.8	0.6	2.2	5.1	0.5
21	0.4	0.6	1.2	0.3	0.2	0.4	1.8	2.0	1.9	2.0	1.9	2.7	4.0	3.9	4.3	3.6	3.4	3.5	1.8	1.2	1.0	1.0	1.5	1.0	1.9	4.3	0.2
22	2.1	1.5	1.2	1.2	0.8	1.0	1.7	2.3	0.6	2.6	2.6	2.3	1.9	2.7	3.3	3.1	3.0	3.1	2.2	1.2	1.0	0.7	0.7	0.4	1.8	3.3	0.4
23	0.3	0.6	1.4	0.9	1.4	1.9	1.6	2.2	0.7	1.2	1.6	2.1	3.2	3.1	3.4	3.0	2.8	3.3	2.3	1.2	1.0	0.6	0.6	0.8	1.7	3.4	0.3
24	1.8	0.9	0.6	0.9	1.1	1.2	1.6	0.6	1.4	1.0	1.5	2.0	3.2	2.5	3.5	4.1	2.5	2.5	2.3	1.5	0.8	1.2	0.8	1.1	1.7	4.1	0.6
25	4.6	1.2	1.7	4.1	4.2	3.6	0.9	1.7	0.8	1.9	1.8	2.4	2.8	4.6	4.1	5.2	4.0	6.9	2.3	1.1	1.9	4.5	5.2	6.1	3.2	6.9	0.8
26	4.1	2.5	2.2	1.6	1.7	2.1	1.8	1.6	3.3	5.0	5.7	6.7	6.3	6.5	7.0	6.9	6.7	7.0	6.0	5.2	4.7	4.8	2.9	1.2	4.3	7.0	1.2
27	1.3	3.0	3.0	2.6	0.9	0.7	0.9	0.9	1.1	1.5	2.8	3.7	4.9	4.6	4.9	4.8	5.1	4.6	3.5	1.3	0.5	0.7	1.1	0.8	2.5	5.1	0.5
28	1.5	0.5	1.0	0.5	0.7	0.7	0.9	0.5	1.1	1.3	1.9	2.4	2.5	3.0	2.5	3.6	3.7	3.7	2.7	0.5	0.3	0.8	0.5	0.6	1.6	3.7	0.3
29	0.9	0.8	1.5	1.2	1.2	2.2	1.1	3.9	1.8	1.9	2.3	3.6	2.9	3.0	2.5	2.8	2.7	2.9	2.4	0.9	1.2	1.7	1.2	0.7	2.0	3.9	0.7
30	0.6	2.8	2.1	0.6	1.3	1.3	1.1	0.6	0.9	0.8	3.3	4.6	4.1	3.6	5.8	5.9	6.2	6.0	4.1	1.7	1.5	1.0	1.3	0.9	2.6	6.2	0.6
31	0.5	0.4	0.4	1.8	3.0	2.6	4.3	5.9	2.8	2.3	3.7	3.6	4.3	6.1	5.6	4.4	5.5	4.9	3.1	1.5	0.4	0.4	0.5	1.2	2.9	6.1	0.4
Avg	1.9	2.1	2.1	2.1	2.0	2.4	2.3	2.5	2.2	2.4	3.0	3.1	3.2	3.4	3.9	4.1	3.8	3.8	2.7	1.8	1.7	1.8	1.8	1.7	2.6	--	--
Max	8.9	10.7	11.6	7.9	7.2	9.8	11.2	10.4	9.4	8.6	8.9	6.7	6.3	6.5	7.0	8.2	6.7	7.0	6.0	5.6	6.4	5.9	6.5	7.9	--	11.6	--
Min	0.3	0.4	0.4	0.3	0.2	0.4	0.5	0.4	0.4	0.6	0.8	1.1	1.6	1.4	1.8	1.9	1.7	1.4	0.9	0.5	0.3	0.1	0.1	0.3	--	--	0.1

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Jan 2014

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	79	80	8	341	317	342	284	2	329	155	147	181	227	260	265	262	262	304	50	267	16	32	62	299	322	342	2
2	308	242	60	29	45	34	34	39	29	48	47	36	64	65	268	168	176	75	44	41	24	30	26	44	41	308	24
3	37	45	60	63	67	65	70	67	65	64	130	87	64	75	182	202	211	306	2	27	324	36	284	38	55	324	2
4	321	15	338	34	26	299	322	319	305	200	173	183	203	216	255	266	272	283	312	323	243	290	296	264	287	338	15
5	313	325	266	11	10	294	306	276	31	72	79	146	194	203	268	249	266	284	35	4	74	75	84	196	327	325	4
6	207	187	227	105	68	56	56	56	56	51	49	39	61	56	18	6	3	148	98	354	71	117	343	315	55	354	3
7	339	313	13	44	54	54	65	69	68	65	73	102	85	92	58	137	67	53	68	60	58	28	5	55	56	339	5
8	290	18	55	66	34	47	61	224	56	126	191	217	182	211	266	267	258	266	344	350	346	294	21	18	337	350	18
9	59	2	3	25	275	302	50	167	59	63	66	70	167	228	207	223	254	279	17	12	273	39	331	355	1	355	2
10	306	336	355	345	12	331	352	270	234	175	162	214	245	245	260	244	253	270	328	33	355	299	330	259	293	355	12
11	49	304	90	306	74	71	60	51	89	210	180	228	230	264	226	255	258	271	50	81	18	324	354	346	347	354	18
12	355	45	329	353	321	65	9	30	103	151	201	244	235	241	262	257	259	301	339	12	302	357	310	218	313	357	9
13	34	46	24	265	224	323	58	271	270	265	51	86	211	--	--	249	246	274	300	27	22	340	28	299	323	340	22
14	61	359	322	316	31	39	30	64	111	185	190	44	37	10	354	25	14	58	359	341	209	82	29	66	31	359	10
15	63	59	38	48	78	68	74	355	325	109	94	75	64	74	113	206	275	301	327	41	12	312	296	313	35	355	12
16	8	318	3	349	5	303	5	66	57	250	102	160	54	125	11	345	310	283	263	272	211	223	285	280	328	349	3
17	35	62	56	94	354	267	289	259	310	50	65	81	110	59	60	58	68	83	89	42	20	65	68	50	52	354	20
18	1	33	33	45	50	331	55	62	67	75	78	85	64	57	271	281	274	253	313	81	92	86	63	2	40	331	1
19	335	32	18	357	325	35	45	32	52	40	329	73	53	63	79	90	204	87	81	69	80	54	47	36	46	357	18
20	38	37	50	354	351	30	66	75	86	134	194	211	250	257	274	271	269	292	340	28	304	313	268	39	340	354	28
21	273	298	299	15	320	341	28	2	317	275	240	298	256	11	21	48	66	86	50	51	51	43	38	57	1	341	2
22	69	95	82	85	83	85	86	68	81	97	97	122	224	247	271	236	259	267	2	322	349	355	33	16	56	355	2
23	11	334	31	353	39	29	32	308	73	70	272	117	107	210	83	37	103	271	23	77	65	70	61	52	45	353	11
24	57	74	70	74	75	73	68	70	71	64	64	61	342	292	357	275	271	47	351	63	57	63	73	78	51	357	47
25	89	61	350	350	54	95	111	92	85	91	94	169	227	264	256	260	254	258	289	310	47	34	16	310	26	350	16
26	55	39	357	333	22	1	61	331	278	183	147	249	256	242	250	247	261	269	298	314	14	47	36	21	325	357	1
27	340	339	45	313	112	31	343	199	89	145	201	248	252	265	246	248	255	260	344	347	57	17	8	267	308	347	8
28	316	16	1	38	25	28	59	344	74	244	144	112	263	267	253	265	273	284	325	2	29	48	355	44	353	355	1
29	320	319	331	278	35	43	68	55	0	178	147	199	250	267	237	261	272	282	327	358	44	320	301	1	318	358	0
30	6	280	16	59	313	333	341	25	282	272	164	178	208	205	230	242	250	304	57	84	16	284	75	151	305	341	6
31	208	218	84	40	253	219	206	217	195	203	201	224	225	233	241	269	255	259	254	230	214	227	279	271	231	279	40
Avg	8	9	19	16	23	18	38	26	46	125	130	141	205	244	268	258	263	288	358	16	22	17	7	359	9	--	--
Max	355	359	357	357	354	342	352	355	329	275	329	298	342	292	357	345	310	306	359	358	355	357	355	355	--	359	--
Min	1	2	1	11	5	1	5	2	0	40	47	36	37	10	11	6	3	47	2	2	12	17	5	1	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Feb 2014

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	312	309	310	304	307	312	334	345	114	146	224	245	268	252	276	279	269	269	304	325	7	8	224	2	297	345	2
2	45	16	18	311	308	334	12	55	100	192	191	221	194	267	273	272	262	277	313	345	335	71	72	161	319	345	12
3	337	53	76	58	38	330	13	52	199	119	174	210	247	253	274	296	274	285	284	328	19	342	281	317	319	342	13
4	339	57	42	54	74	79	85	80	76	135	188	230	242	242	232	240	255	252	309	52	55	62	74	67	70	339	42
5	82	72	81	82	57	69	66	88	86	75	98	72	52	138	57	67	60	283	340	6	33	62	327	53	61	340	6
6	34	49	70	73	358	66	81	83	54	132	316	77	89	170	183	171	168	159	192	261	313	73	94	93	92	358	34
7	80	174	117	113	104	126	173	217	203	55	250	217	159	259	248	249	256	262	303	58	44	255	9	33	191	303	9
8	46	1	12	30	325	40	38	50	70	138	181	194	253	251	237	265	273	262	298	352	53	74	353	1	353	353	1
9	354	54	359	62	56	102	15	62	102	149	175	203	178	252	271	239	226	264	295	28	61	12	45	44	43	359	12
10	48	48	48	52	30	59	45	356	259	171	178	243	255	257	244	248	250	254	291	320	8	24	192	14	321	356	8
11	350	88	73	52	340	38	41	54	62	54	109	23	360	244	240	259	263	260	296	351	17	337	130	13	14	360	13
12	40	9	57	76	66	359	308	293	20	99	66	91	125	234	272	247	277	277	342	63	353	334	357	23	8	359	9
13	356	294	27	34	15	354	22	346	82	172	162	213	234	264	278	269	273	252	297	327	32	55	37	352	333	356	15
14	47	39	51	34	20	33	50	71	318	161	179	184	230	231	266	265	265	262	334	5	343	337	349	6	347	349	5
15	17	54	37	43	33	301	310	95	127	112	188	204	219	277	268	259	262	273	357	16	39	333	17	51	354	357	16
16	26	49	45	22	51	6	36	34	263	207	188	157	248	268	253	245	244	251	317	35	31	313	330	47	337	330	6
17	327	28	61	58	335	39	45	42	77	222	204	120	158	195	223	265	257	253	311	18	349	320	1	20	356	349	1
18	3	40	326	22	45	43	30	12	135	173	184	200	192	200	266	265	277	271	313	48	329	94	29	8	356	329	3
19	321	28	353	65	65	11	27	0	295	216	177	191	240	255	252	254	260	257	290	340	33	358	17	357	322	358	0
20	322	354	22	1	1	2	351	177	239	78	90	26	16	88	326	248	261	255	322	63	44	49	35	0	6	354	0
21	53	62	42	252	21	61	71	60	83	86	178	214	202	244	230	230	247	269	304	12	335	350	323	359	351	359	12
22	316	318	8	50	47	25	45	226	84	79	183	230	209	244	236	262	248	261	298	10	55	36	349	41	339	349	8
23	42	52	15	51	52	45	46	75	80	75	194	187	221	201	222	229	220	227	333	49	35	279	339	7	41	339	7
24	22	33	32	45	36	59	72	69	87	126	123	95	166	205	217	269	264	262	298	357	39	32	7	21	44	357	7
25	348	53	45	53	41	14	296	261	66	325	197	220	205	256	240	264	276	278	297	316	1	26	323	263	312	348	1
26	355	3	110	49	30	4	36	40	78	161	186	225	232	263	259	241	246	266	281	339	245	63	301	33	321	355	3
27	61	58	16	41	281	35	56	84	129	234	214	255	251	247	252	263	258	262	261	300	321	307	53	43	306	321	16
28	56	354	356	47	40	68	70	70	70	89	132	147	170	207	223	219	219	205	199	228	240	218	228	228	166	356	40
Avg	15	33	36	44	26	31	35	50	89	133	176	194	213	237	251	253	256	259	303	1	12	12	4	20	356	--	--
Max	356	354	359	311	358	359	351	356	318	325	316	255	360	277	326	296	277	285	357	357	353	358	357	359	--	360	--
Min	3	1	8	1	1	2	12	0	20	54	66	23	16	88	57	67	60	159	192	5	1	8	1	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Mar 2014

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	206	209	215	212	198	200	224	205	207	186	178	180	189	193	169	163	162	148	153	144	159	174	220	234	189	234	144
2	219	87	109	83	127	117	137	259	223	156	216	279	242	212	220	244	225	256	273	305	150	334	146	19	205	334	19
3	1	75	108	57	300	27	300	20	221	220	209	207	233	232	272	269	257	273	243	13	26	41	45	342	304	342	1
4	347	352	1	344	44	86	70	77	165	211	268	244	249	264	277	272	260	259	221	349	324	52	352	323	312	352	1
5	283	62	50	328	349	308	62	68	220	206	174	155	174	286	259	201	289	259	26	4	56	32	48	71	357	349	4
6	50	339	17	46	358	52	57	77	51	41	64	65	89	211	275	276	248	251	337	334	44	25	27	41	24	358	17
7	52	60	16	32	51	15	19	51	134	129	246	239	228	257	245	245	253	273	269	305	38	67	58	48	1	305	15
8	68	66	119	311	56	48	41	40	40	39	44	40	45	23	352	3	23	25	33	18	27	55	59	108	40	352	3
9	75	126	--	93	66	84	132	92	120	194	166	160	151	47	36	107	37	240	140	66	296	71	334	42	96	334	36
10	84	82	77	87	165	148	68	199	195	266	199	210	255	218	226	250	257	245	263	7	348	344	325	3	233	348	3
11	354	7	24	321	336	350	55	295	238	186	238	253	252	242	249	248	264	269	309	315	38	308	276	312	296	354	7
12	52	343	149	289	308	337	280	339	49	54	59	85	82	146	144	104	148	75	76	73	93	95	86	82	72	343	49
13	95	58	35	47	56	43	55	60	83	93	109	70	144	212	270	241	242	344	46	66	20	43	350	59	56	350	20
14	297	259	132	61	74	71	69	73	96	292	351	291	272	277	290	11	19	13	16	25	250	277	30	44	2	351	11
15	314	33	320	16	284	357	327	302	162	218	247	166	337	330	288	294	293	304	337	18	13	14	35	40	329	357	13
16	34	39	32	42	199	248	93	85	105	100	116	155	160	306	271	263	245	259	266	331	32	1	2	294	4	331	1
17	20	47	38	24	2	0	334	59	148	161	189	234	247	264	241	219	231	252	265	4	296	15	328	54	318	334	0
18	39	41	342	48	48	5	68	38	88	119	246	220	250	242	249	247	255	263	259	308	327	16	6	20	337	342	5
19	42	42	45	45	28	66	73	75	212	121	106	237	192	251	214	255	254	246	279	320	41	41	28	50	40	320	28
20	2	4	1	33	39	67	105	67	90	159	213	126	245	276	253	261	274	266	324	0	264	10	253	2	336	324	0
21	346	15	11	330	324	352	50	70	101	182	204	246	225	242	262	238	250	259	297	359	29	18	51	27	329	359	11
22	62	60	82	22	325	18	47	102	114	166	175	202	287	264	263	232	248	242	288	4	345	333	311	338	327	345	4
23	315	292	41	2	29	33	39	53	171	255	222	206	208	214	211	246	206	227	259	330	7	251	311	49	280	330	2
24	41	344	332	318	360	48	35	355	100	245	241	262	165	213	193	222	218	301	334	318	351	9	327	34	324	360	9
25	63	26	49	61	67	57	324	3	231	183	164	186	186	193	225	222	193	118	132	130	74	69	67	69	112	324	3
26	72	124	112	19	58	93	92	97	169	217	220	240	237	245	235	241	242	258	260	258	262	259	251	233	222	262	19
27	267	257	261	273	259	102	40	96	151	198	227	194	231	229	240	248	248	262	267	285	295	309	51	50	250	309	40
28	44	41	50	42	288	353	33	61	128	145	138	207	226	252	248	257	259	257	255	53	32	2	291	358	340	358	2
29	27	33	95	31	8	24	0	69	187	198	194	163	188	195	240	220	250	262	275	354	331	45	25	279	319	354	0
30	21	44	34	28	39	344	302	282	246	239	192	250	252	236	244	266	264	266	262	300	309	34	38	359	301	359	21
31	2	16	344	52	55	48	72	69	110	178	151	164	210	238	231	233	235	239	264	298	299	355	360	54	343	360	2
Avg	24	35	44	23	19	37	46	56	147	180	192	203	218	241	247	245	249	263	285	350	359	16	6	24	339	--	--
Max	354	352	344	344	360	357	334	355	246	292	351	291	337	330	352	294	293	344	337	359	351	355	360	359	--	360	--
Min	1	4	1	2	2	0	0	3	40	39	44	40	45	23	36	3	19	13	16	0	7	1	2	2	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Jan 2014

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	0.95	1.53	1.41	1.33	1.63	1.53	1.76	0.85	0.64	-0.54	-0.90	-0.85	-0.62	-0.42	-0.47	-0.43	-0.33	0.14	0.85	0.89	0.56	0.35	0.38	0.40	0.44	1.76	-0.90
2	0.45	0.39	0.43	0.62	0.47	0.29	0.21	0.19	0.03	-0.33	-0.55	-0.75	-0.71	-0.79	-0.58	-0.55	-0.24	0.08	0.15	0.18	0.20	0.19	0.19	0.20	-0.01	0.62	-0.79
3	0.17	0.23	0.34	0.32	0.25	0.28	0.28	0.29	-0.01	-0.38	-0.55	-0.84	-0.86	-1.03	-1.23	-1.05	-0.49	0.07	1.24	1.78	1.46	1.53	0.98	2.09	0.20	2.09	-1.23
4	1.57	1.87	2.01	1.26	1.08	1.16	0.99	1.04	0.64	-0.19	-0.79	-1.20	-0.90	-0.84	-0.45	-0.36	-0.22	0.24	0.66	1.19	1.02	0.89	1.75	1.27	0.57	2.01	-1.20
5	0.76	0.81	0.65	0.94	0.80	0.86	0.89	1.02	0.27	-0.67	-1.21	-0.93	-0.90	-0.86	-0.59	-0.46	-0.42	-0.07	0.83	1.23	0.60	0.31	0.38	0.76	0.21	1.23	-1.21
6	0.73	0.53	0.57	0.34	0.34	0.22	0.18	0.18	-0.03	-0.43	-0.63	-0.78	-0.92	-0.87	-0.77	-0.56	-0.24	0.19	0.31	0.31	0.30	0.40	0.50	0.44	0.01	0.73	-0.92
7	0.42	0.65	0.39	0.40	0.30	0.30	0.37	0.31	0.06	-0.21	-0.56	-1.03	-0.90	-0.88	-0.95	-0.76	-0.24	0.09	0.08	0.15	0.32	0.73	1.12	0.90	0.04	1.12	-1.03
8	0.64	1.36	0.69	0.62	0.64	0.58	0.47	0.70	0.56	-0.90	-0.66	-0.66	-1.16	-0.84	-0.55	-0.49	-0.31	0.09	1.07	1.24	1.08	1.20	1.23	1.68	0.35	1.68	-1.16
9	1.44	1.89	1.94	1.43	1.51	1.73	1.13	0.69	0.16	-0.29	-0.42	-0.62	-0.88	-0.68	-0.75	-0.58	-0.24	0.05	1.12	1.17	1.47	1.73	1.29	1.57	0.66	1.94	-0.88
10	1.67	1.54	1.84	1.45	1.58	1.88	2.10	1.64	0.87	-0.38	-0.86	-0.75	-0.63	-0.50	-0.51	-0.44	-0.33	-0.06	0.27	0.87	0.95	1.50	1.30	1.02	0.67	2.10	-0.86
11	0.96	0.84	0.80	0.86	0.61	0.51	0.42	1.12	0.50	-0.44	-0.72	-0.62	-0.80	-0.50	-0.69	-0.42	-0.32	0.16	0.57	0.94	1.42	1.85	1.77	1.56	0.43	1.85	-0.80
12	1.74	2.45	1.71	1.30	1.69	1.84	1.34	1.40	0.85	-0.05	-0.60	-0.72	-0.81	-0.68	-0.59	-0.43	-0.19	-0.04	0.23	1.01	1.24	1.51	1.13	0.88	0.68	2.45	-0.81
13	0.47	0.29	0.37	0.68	0.63	1.09	0.80	1.03	0.37	-0.24	-0.74	-1.27	-0.88	--	--	-0.46	-0.38	0.03	0.78	1.73	1.86	1.06	2.46	1.84	0.52	2.46	-1.27
14	1.49	1.42	1.05	0.99	1.36	0.99	1.41	1.43	0.05	-0.61	-0.92	-0.79	-0.93	-0.73	-0.65	-0.48	-0.24	0.14	0.74	0.44	0.87	0.84	0.91	0.67	0.39	1.49	-0.93
15	0.72	0.49	0.40	0.38	0.46	0.57	0.68	0.65	0.61	-0.64	-0.82	-1.14	-1.11	-0.99	-0.91	-0.62	-0.26	0.14	0.91	2.12	2.00	1.69	1.68	2.02	0.38	2.12	-1.14
16	2.69	1.69	2.10	1.38	1.08	0.86	0.76	0.44	0.13	-0.30	-0.69	-0.88	-1.03	-1.12	-0.70	-0.53	-0.26	0.14	0.49	0.57	0.65	0.85	0.43	0.42	0.38	2.69	-1.12
17	0.43	0.39	0.42	0.47	0.44	0.70	0.91	0.90	0.49	-0.40	-0.68	-1.02	-1.14	-0.92	-0.97	-0.70	-0.19	0.40	0.58	0.99	1.57	1.27	1.00	0.62	0.23	1.57	-1.14
18	1.93	1.56	1.09	1.20	1.12	0.98	0.69	0.60	0.18	-0.77	-0.80	-0.96	-1.25	-0.98	-0.55	-0.50	-0.27	0.19	1.13	0.97	0.71	0.86	0.37	0.24	0.32	1.93	-1.25
19	0.35	0.32	0.29	0.26	0.16	0.19	0.18	0.14	0.07	-0.27	-0.40	-0.75	-0.97	-0.85	-0.87	-0.78	-0.47	0.09	0.30	0.46	0.54	1.32	0.99	1.28	0.07	1.32	-0.97
20	1.11	1.01	0.77	1.13	1.23	1.22	0.65	0.47	0.15	-0.54	-0.60	-0.88	-0.73	-0.63	-0.49	-0.41	-0.29	-0.01	0.94	1.86	1.29	1.68	0.98	1.14	0.46	1.86	-0.88
21	1.17	1.00	1.02	0.80	0.58	0.73	0.38	0.34	0.21	-0.20	-0.50	-0.53	-0.59	-0.80	-0.69	-0.69	-0.25	0.06	0.16	0.16	0.17	0.24	0.18	0.20	0.13	1.17	-0.80
22	0.19	0.13	0.21	0.31	0.27	0.25	0.29	0.40	0.05	-0.38	-0.80	-1.28	-1.03	-0.62	-0.51	-0.86	-0.31	-0.04	0.48	1.27	1.49	1.29	1.56	1.60	0.17	1.60	-1.28
23	2.00	2.05	1.58	1.50	1.37	1.14	1.44	1.63	0.20	-0.52	-0.41	-1.31	-1.30	-0.80	-0.96	-0.70	-0.45	0.11	0.63	0.52	0.30	0.18	0.10	0.07	0.35	2.05	-1.31
24	0.05	0.12	0.10	0.09	0.08	0.08	0.03	0.03	-0.05	-0.29	-0.56	-0.57	-0.63	-0.49	-0.51	-0.36	-0.25	-0.08	-0.04	-0.01	0.02	0.01	0.02	0.02	-0.13	0.12	-0.63
25	0.02	0.09	0.13	0.13	0.09	0.02	0.02	0.09	-0.11	-0.75	-1.06	-1.49	-0.98	-0.65	-0.71	-0.61	-0.48	-0.22	-0.07	0.19	1.15	1.55	1.36	1.34	-0.04	1.55	-1.49
26	2.08	2.31	1.55	1.81	1.87	1.79	2.21	1.74	0.99	-0.59	-1.07	-0.68	-0.69	-0.97	-0.79	-0.77	-0.49	-0.07	0.12	0.41	1.25	0.71	1.03	0.95	0.61	2.31	-1.07
27	1.29	0.67	0.93	0.84	0.55	0.68	0.50	0.52	-0.23	-0.71	-0.84	-0.78	-0.69	-0.55	-0.87	-0.76	-0.44	-0.06	0.37	0.60	1.67	1.87	1.97	1.25	0.32	1.97	-0.87
28	1.63	1.53	1.84	1.88	1.56	1.42	1.19	1.15	0.24	-0.47	-0.89	-1.22	-0.80	-0.71	-0.55	-0.53	-0.40	-0.01	0.38	1.45	1.54	1.12	1.19	1.63	0.59	1.88	-1.22
29	1.60	1.48	2.13	1.55	0.96	1.35	0.77	0.93	0.71	-0.73	-0.88	-1.06	-0.87	-0.61	-0.73	-0.55	-0.40	-0.08	0.22	1.08	0.85	0.86	1.21	1.48	0.47	2.13	-1.06
30	1.64	1.29	2.39	1.97	1.51	1.39	1.27	0.78	0.63	0.09	-0.93	-1.58	-1.48	-1.62	-1.18	-0.76	-0.38	0.02	0.74	0.49	0.34	0.27	0.34	0.17	0.31	2.39	-1.62
31	0.16	0.13	0.15	0.36	0.28	0.15	0.13	0.06	-0.06	-0.24	-0.35	-0.52	-1.16	-1.13	-0.64	-0.27	-0.20	-0.09	-0.03	-0.13	-0.13	-0.02	0.01	-0.03	-0.15	0.36	-1.16
Avg	1.05	1.03	1.01	0.92	0.86	0.86	0.79	0.73	0.30	-0.43	-0.72	-0.92	-0.91	-0.80	-0.71	-0.58	-0.32	0.05	0.52	0.84	0.93	0.96	0.96	0.96	0.31	--	--
Max	2.69	2.45	2.39	1.97	1.87	1.88	2.21	1.74	0.99	0.09	-0.35	-0.52	-0.59	-0.42	-0.45	-0.27	-0.19	0.40	1.24	2.12	2.00	1.87	2.46	2.09	--	2.69	--
Min	0.02	0.09	0.10	0.09	0.08	0.02	0.02	0.03	-0.23	-0.90	-1.21	-1.58	-1.48	-1.62	-1.23	-1.05	-0.49	-0.22	-0.07	-0.13	-0.13	-0.02	0.01	-0.03	--	--	-1.62

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Feb 2014

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	-0.09	-0.11	-0.11	-0.12	-0.12	-0.03	0.10	0.54	-0.26	-0.92	-0.75	-0.82	-0.46	-0.70	-0.47	-0.50	-0.44	-0.23	0.05	0.45	0.40	0.76	0.39	0.99	-0.10	0.99	-0.92
2	1.23	0.84	1.16	0.99	1.01	1.33	1.52	0.83	-0.06	-0.76	-0.97	-1.43	-1.27	-0.75	-0.81	-0.87	-0.49	-0.26	-0.17	-0.05	0.08	0.11	0.12	0.14	0.06	1.52	-1.43
3	0.18	0.40	0.39	0.39	0.43	0.57	0.61	0.57	-0.06	-1.14	-1.72	-1.21	-0.90	-0.59	-0.43	-0.50	-0.30	-0.21	-0.17	-0.18	0.12	0.30	0.31	0.94	-0.09	0.94	-1.72
4	1.50	1.36	1.43	1.03	0.69	0.73	0.44	0.65	-0.20	-1.15	-1.20	-0.89	-0.56	-0.81	-0.98	-0.90	-0.54	-0.29	0.09	0.55	0.40	0.22	0.10	0.16	0.08	1.50	-1.20
5	0.12	0.18	0.15	0.20	0.17	0.22	0.15	-0.02	-0.11	-0.41	-0.74	-0.53	-0.50	-0.64	-0.97	-0.86	-0.62	-0.18	-0.01	0.35	0.38	0.33	0.69	0.67	-0.08	0.69	-0.97
6	0.87	0.70	0.45	0.35	0.65	0.54	0.22	0.17	-0.07	-0.32	-0.38	-0.80	-0.84	-1.08	-1.14	-0.87	-0.55	-0.33	-0.17	0.04	0.03	0.08	0.02	0.04	-0.10	0.87	-1.14
7	0.05	-0.04	-0.05	0.06	0.06	-0.02	-0.03	-0.04	-0.26	-0.46	-0.48	-0.74	-0.89	-0.85	-0.94	-0.91	-0.60	-0.18	0.13	1.04	0.51	0.75	0.94	1.23	-0.07	1.23	-0.94
8	1.09	0.90	0.79	0.99	1.30	1.64	1.54	0.59	-0.13	-0.93	-1.06	-1.14	-0.81	-0.91	-0.96	-0.62	-0.65	-0.26	0.02	0.83	0.77	0.61	1.08	0.91	0.23	1.64	-1.14
9	1.15	1.03	1.68	1.82	0.81	0.49	1.54	0.87	-0.17	-1.03	-1.20	-1.28	-1.35	-0.82	-0.65	-0.84	-0.91	-0.21	0.15	0.81	0.71	1.04	1.26	1.37	0.26	1.82	-1.35
10	1.73	1.72	1.50	0.88	1.78	1.59	1.88	1.22	0.32	-0.82	-1.06	-0.90	-0.81	-0.79	-0.75	-0.66	-0.55	-0.20	0.16	0.47	0.67	0.58	0.60	1.15	0.41	1.88	-1.06
11	0.95	0.55	0.51	0.65	0.48	0.32	0.27	0.25	-0.18	-0.76	-1.16	-1.14	-1.07	-1.16	-1.24	-0.52	-0.40	-0.08	0.25	0.38	0.72	1.12	1.05	1.77	0.07	1.77	-1.24
12	2.18	1.33	0.93	0.46	0.46	0.84	0.70	0.67	-0.03	-0.64	-0.90	-1.27	-1.53	-1.02	-0.57	-0.67	-0.47	-0.17	0.43	1.21	1.56	1.71	1.86	1.93	0.38	2.18	-1.53
13	1.93	1.66	1.68	1.29	1.93	1.63	2.25	1.81	0.11	-0.69	-1.06	-0.87	-0.99	-0.68	-0.61	-0.56	-0.43	-0.19	0.39	0.79	1.48	1.27	2.13	1.95	0.68	2.25	-1.06
14	1.84	2.08	1.78	1.87	1.93	2.15	0.94	0.65	-0.02	-0.88	-0.78	-1.06	-1.00	-0.95	-0.56	-0.48	-0.47	-0.25	0.30	1.49	1.93	1.93	1.92	1.98	0.68	2.15	-1.06
15	2.70	1.40	1.55	1.49	2.15	1.48	1.94	1.50	0.02	-0.79	-1.23	-1.36	-0.95	-0.75	-0.74	-0.66	-0.43	0.01	0.79	2.10	1.58	1.95	2.14	2.08	0.75	2.70	-1.36
16	2.11	2.05	1.99	2.33	2.14	2.11	2.24	0.89	0.48	-0.60	-0.97	-1.19	-0.84	-0.70	-0.91	-0.61	-0.38	-0.06	0.64	1.92	1.25	1.40	1.30	0.80	0.73	2.33	-1.19
17	1.45	1.48	0.72	0.55	1.08	1.11	0.88	0.68	0.04	-0.73	-0.90	-1.25	-1.68	-1.71	-1.21	-0.62	-0.49	-0.10	0.59	1.59	1.26	1.28	1.68	1.94	0.32	1.94	-1.71
18	2.13	2.47	2.50	2.34	1.18	0.90	1.11	1.45	0.17	-0.73	-1.28	-1.45	-1.31	-1.09	-0.62	-0.65	-0.47	-0.04	0.21	1.05	0.94	1.04	1.36	1.83	0.54	2.50	-1.45
19	1.72	1.58	1.55	1.67	1.66	1.24	1.14	0.57	0.25	-0.38	-0.60	-1.20	-0.76	-0.71	-0.62	-0.59	-0.37	-0.09	0.34	0.76	1.66	1.23	1.18	1.53	0.53	1.72	-1.20
20	2.06	2.18	2.40	1.78	1.06	0.35	0.31	0.39	-0.07	-0.96	-1.29	-1.27	-1.24	-1.21	-0.93	-0.97	-0.52	-0.21	0.26	0.63	1.56	1.80	1.21	0.66	0.33	2.40	-1.29
21	1.12	0.99	0.68	0.88	1.76	0.76	0.42	0.47	-0.05	-0.52	-1.12	-1.15	-1.05	-0.91	-1.09	-0.93	-0.59	-0.20	0.23	0.98	1.56	1.47	1.84	1.95	0.31	1.95	-1.15
22	1.30	1.76	2.05	2.55	1.29	0.91	0.96	0.97	-0.22	-1.02	-1.02	-1.03	-1.25	-1.04	-1.01	-0.53	-0.46	-0.12	0.05	0.45	1.34	1.01	0.92	1.31	0.38	2.55	-1.25
23	1.42	1.53	1.29	1.09	0.71	0.42	0.68	0.42	-0.21	-1.04	-1.39	-1.99	-1.56	-1.69	-1.25	-0.80	-1.03	-0.44	0.16	1.04	0.56	0.80	1.05	1.34	0.05	1.53	-1.99
24	1.73	1.64	2.17	1.03	1.61	0.89	0.42	0.30	-0.11	-0.75	-1.19	-1.48	-1.88	-1.48	-1.13	-0.57	-0.33	-0.07	0.04	0.31	0.56	0.54	0.31	0.73	0.14	2.17	-1.88
25	0.96	1.28	1.34	1.30	1.12	1.30	1.05	1.05	0.06	-0.20	-0.68	-0.66	-0.86	-0.47	-0.69	-0.34	-0.31	-0.06	0.03	0.23	0.42	0.77	0.51	0.52	0.32	1.34	-0.86
26	0.61	0.83	0.75	0.86	1.00	1.30	0.88	0.96	-0.56	-0.94	-1.03	-0.98	-1.03	-0.99	-0.65	-1.09	-0.75	-0.28	0.08	0.30	0.32	0.61	1.02	1.77	0.12	1.77	-1.09
27	1.84	1.89	1.41	1.68	1.19	1.24	1.14	0.73	-0.62	-0.65	-1.15	-0.93	-1.00	-1.35	-1.04	-0.62	-0.54	-0.31	0.04	0.27	0.64	1.19	1.76	2.11	0.37	2.11	-1.35
28	1.94	1.74	1.49	1.12	0.69	0.52	0.28	0.13	-0.55	-0.98	-1.57	-1.55	-1.74	-1.76	-1.34	-0.92	-0.71	-0.40	-0.16	0.00	-0.03	-0.09	-0.09	-0.06	-0.17	1.94	-1.76
Avg	1.35	1.27	1.22	1.13	1.08	0.95	0.91	0.69	-0.09	-0.76	-1.03	-1.13	-1.07	-0.99	-0.87	-0.70	-0.53	-0.19	0.17	0.71	0.84	0.92	1.02	1.21	0.25	--	--
Max	2.70	2.47	2.50	2.55	2.15	2.15	2.25	1.81	0.48	-0.20	-0.38	-0.53	-0.46	-0.47	-0.43	-0.34	-0.30	0.01	0.79	2.10	1.93	1.95	2.14	2.11	--	2.70	--
Min	-0.09	-0.11	-0.11	-0.12	-0.12	-0.03	-0.03	-0.04	-0.62	-1.15	-1.72	-1.99	-1.88	-1.76	-1.34	-1.09	-1.03	-0.44	-0.17	-0.18	-0.03	-0.09	-0.09	-0.06	--	--	-1.99

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Mar 2014

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	-0.02	0.00	-0.08	-0.15	0.02	0.05	-0.03	-0.08	-0.10	-0.18	-0.05	-0.10	-0.30	-0.28	-0.67	-0.48	-0.54	-0.24	-0.04	0.02	0.03	0.02	-0.10	-0.23	-0.15	0.05	-0.67
2	-0.08	0.02	0.07	0.09	-0.06	-0.01	-0.18	-0.18	-0.31	-0.75	-0.65	-0.65	-0.87	-1.19	-1.08	-0.74	-0.83	-0.23	-0.16	-0.06	0.01	0.01	0.12	0.27	-0.31	0.27	-1.19
3	0.61	0.38	0.35	0.37	0.76	1.01	0.81	0.61	-0.15	-0.56	-0.89	-0.85	-0.93	-0.89	-0.80	-0.59	-0.57	-0.31	-0.08	0.35	1.29	1.05	1.12	0.93	0.13	1.29	-0.93
4	0.77	0.95	0.96	0.87	0.81	0.43	0.55	0.34	-0.04	-0.49	-0.35	-0.72	-0.81	-0.72	-0.56	-0.59	-0.44	-0.20	-0.06	0.41	0.89	1.34	1.38	1.34	0.25	1.38	-0.81
5	0.82	1.00	1.10	1.27	1.01	1.10	0.80	0.43	-0.41	-0.53	-0.76	-1.07	-1.24	-0.68	-0.91	-1.02	-0.58	-0.32	0.25	0.49	0.59	1.40	1.23	0.84	0.20	1.40	-1.24
6	0.79	1.19	1.54	0.95	1.43	1.26	0.61	0.30	0.02	-0.25	-0.57	-0.93	-1.32	-1.08	-0.68	-0.46	-0.34	-0.21	0.18	1.04	1.66	1.40	1.81	2.13	0.44	2.13	-1.32
7	2.46	2.79	2.59	2.50	1.78	0.82	1.80	1.66	-0.55	-1.13	-0.74	-0.93	-1.53	-1.06	-1.16	-1.19	-0.80	-0.43	-0.05	0.09	0.68	1.03	1.37	0.71	0.45	2.79	-1.53
8	0.59	0.52	0.50	0.42	0.36	0.31	0.22	0.12	-0.37	-0.83	-1.07	-1.29	-1.48	-1.43	-1.22	-1.00	-0.75	-0.38	0.05	0.10	0.09	0.10	0.09	0.11	-0.26	0.59	-1.48
9	0.11	0.14	--	0.19	0.30	0.30	0.33	0.14	-0.42	-0.70	-1.41	-1.57	-1.61	-1.39	-1.25	-1.07	-0.76	-0.65	0.08	0.55	1.01	0.77	0.43	1.23	-0.23	1.23	-1.61
10	0.95	0.54	0.50	0.45	0.38	0.32	0.73	0.39	-0.49	-0.68	-1.27	-1.17	-1.17	-1.43	-1.08	-0.81	-0.72	-0.50	-0.02	0.93	1.36	1.62	1.52	1.78	0.09	1.78	-1.43
11	1.37	1.81	2.09	1.38	1.89	1.64	1.97	1.38	-0.36	-1.02	-0.90	-0.76	-0.90	-1.29	-0.95	-1.13	-0.58	-0.33	-0.14	0.18	0.95	0.81	0.89	1.06	0.38	2.09	-1.29
12	1.18	0.78	0.70	0.93	0.70	0.59	0.81	0.29	-0.32	-0.76	-1.04	-1.19	-1.41	-1.38	-1.34	-1.16	-0.73	-0.16	0.12	0.14	0.12	0.11	0.13	0.11	-0.12	1.18	-1.41
13	0.09	0.11	0.07	0.06	0.08	0.08	0.08	-0.06	-0.33	-0.59	-0.94	-1.25	-1.57	-1.33	-0.74	-0.64	-0.49	-0.29	0.19	0.35	0.46	0.51	0.43	1.01	-0.20	1.01	-1.57
14	0.74	0.35	0.50	0.61	0.63	0.40	0.35	0.09	-0.41	-0.43	-0.85	-0.87	-0.80	-0.76	-0.77	-0.68	-0.45	-0.37	-0.08	0.15	0.20	0.31	0.74	0.55	-0.03	0.74	-0.87
15	0.76	1.58	1.17	1.86	1.18	1.65	1.25	0.25	-0.58	-1.07	-0.87	-1.27	-1.24	-1.25	-1.01	-0.98	-0.71	-0.38	0.06	0.39	0.24	0.18	0.24	0.20	0.07	1.86	-1.27
16	0.16	0.15	0.13	0.17	0.28	0.39	0.55	0.12	-0.65	-1.07	-1.37	-1.34	-1.44	-1.11	-0.92	-0.91	-0.93	-0.54	-0.12	0.48	1.54	1.26	1.84	1.28	-0.09	1.84	-1.44
17	2.16	1.54	1.15	1.20	1.63	1.69	1.54	0.52	-0.63	-1.23	-1.53	-1.10	-1.11	-1.00	-1.30	-1.41	-0.99	-0.39	0.10	0.79	0.60	1.15	1.00	2.41	0.28	2.41	-1.53
18	1.94	2.66	1.85	2.46	3.08	1.87	1.22	0.36	-0.68	-1.04	-1.23	-1.03	-1.19	-1.16	-0.99	-1.07	-0.66	-0.37	-0.04	0.27	0.93	1.78	0.68	1.11	0.45	3.08	-1.23
19	2.06	1.82	1.28	0.81	1.47	0.69	0.45	0.04	-0.49	-0.84	-1.15	-1.06	-1.78	-1.17	-1.51	-1.00	-0.75	-0.55	-0.05	0.55	1.41	1.09	1.79	1.67	0.20	2.06	-1.78
20	1.90	1.70	1.88	1.82	1.21	0.64	0.55	0.18	-0.67	-0.85	-1.14	-1.40	-1.02	-0.99	-0.97	-0.65	-0.59	-0.31	0.14	0.65	0.37	1.08	0.79	1.66	0.25	1.90	-1.40
21	1.92	2.01	1.90	1.94	2.03	1.99	2.32	0.51	-1.00	-1.37	-1.38	-1.11	-1.70	-1.40	-0.87	-1.18	-0.81	-0.47	-0.08	0.50	0.57	0.71	1.12	1.44	0.32	2.32	-1.70
22	1.89	2.30	1.26	1.21	1.28	1.03	1.29	0.08	-0.63	-1.35	-1.47	-1.50	-1.20	-1.04	-1.12	-1.34	-0.93	-0.66	-0.15	0.56	1.05	0.61	1.26	1.59	0.17	2.30	-1.50
23	2.00	1.05	2.09	1.54	1.84	1.38	1.09	0.04	-0.66	-0.58	-1.12	-1.57	-1.79	-1.58	-1.57	-1.11	-1.26	-0.72	-0.16	0.03	0.44	0.37	0.65	0.98	0.06	2.09	-1.79
24	2.31	1.82	1.25	1.26	1.02	1.81	1.44	0.18	-0.95	-0.57	-1.00	-1.15	-1.95	-1.44	-1.76	-1.40	-0.96	-0.44	-0.16	0.31	1.05	1.06	0.93	1.40	0.17	2.31	-1.95
25	0.67	1.19	1.89	0.71	0.54	0.62	1.17	0.40	-0.54	-1.32	-1.27	-1.54	-1.67	-1.64	-0.98	-0.84	-0.55	-0.32	-0.08	0.26	0.79	0.36	0.20	0.22	-0.07	1.89	-1.67
26	0.38	0.55	0.55	0.77	1.06	0.85	0.85	0.04	-1.05	-1.21	-1.64	-1.42	-1.11	-0.95	-1.13	-1.00	-0.67	-0.29	-0.09	-0.06	-0.02	-0.03	0.01	0.03	-0.23	1.06	-1.64
27	0.11	-0.04	-0.02	0.00	0.07	0.24	0.33	-0.30	-1.14	-1.09	-1.10	-1.98	-1.71	-1.78	-1.34	-1.14	-0.78	-0.56	-0.24	0.02	0.12	0.30	0.95	1.34	-0.41	1.34	-1.98
28	1.04	1.06	1.62	1.64	1.10	1.11	0.76	-0.02	-1.08	-1.49	-1.55	-1.45	-1.52	-1.29	-1.27	-1.08	-0.76	-0.48	-0.18	0.12	1.08	1.36	0.67	1.07	0.02	1.64	-1.55
29	1.44	1.48	0.71	1.41	1.36	1.01	1.22	-0.14	-0.72	-1.20	-1.35	-1.88	-2.07	-1.84	-1.44	-1.42	-1.02	-0.48	-0.10	0.54	0.87	1.63	0.92	1.20	0.01	1.63	-2.07
30	1.96	1.04	0.89	1.49	1.56	0.94	1.12	0.56	-0.32	-0.56	-1.13	-0.82	-1.02	-1.19	-0.97	-0.84	-0.59	-0.43	-0.08	0.18	0.28	1.13	2.02	1.66	0.29	2.02	-1.19
31	1.72	1.95	2.21	2.11	0.86	0.72	0.61	-0.26	-1.05	-1.38	-1.87	-1.85	-2.03	-1.53	-1.68	-1.38	-1.03	-0.56	0.07	0.36	1.03	1.72	1.26	2.27	0.09	2.27	-2.03
Avg	1.12	1.11	1.09	1.04	1.02	0.87	0.86	0.26	-0.55	-0.88	-1.09	-1.19	-1.34	-1.20	-1.10	-0.98	-0.73	-0.41	-0.03	0.35	0.70	0.85	0.89	1.08	0.07	--	--
Max	2.46	2.79	2.59	2.50	3.08	1.99	2.32	1.66	0.02	-0.18	-0.05	-0.10	-0.30	-0.28	-0.56	-0.46	-0.34	-0.16	0.25	1.04	1.66	1.78	2.02	2.41	--	3.08	--
Min	-0.08	-0.04	-0.08	-0.15	-0.06	-0.01	-0.18	-0.30	-1.14	-1.49	-1.87	-1.98	-2.07	-1.84	-1.76	-1.42	-1.26	-0.72	-0.24	-0.06	-0.02	-0.03	-0.10	-0.23	--	--	-2.07

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Jan 2014

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	12.3	11.4	11.9	11.4	10.6	10.3	9.9	10.4	11.3	13.7	15.7	17.5	18.0	17.8	17.8	17.8	17.2	15.6	14.0	13.2	16.1	16.7	16.7	15.6	14.3	18.0	9.9
2	16.0	15.4	16.1	15.3	15.9	16.5	16.3	15.9	15.9	17.1	18.2	18.8	19.2	20.1	20.1	20.0	19.4	17.9	17.6	17.6	17.3	17.0	16.5	15.8	17.3	20.1	15.3
3	15.5	15.2	14.7	14.4	14.0	13.6	13.5	13.4	14.0	15.3	16.3	17.5	18.6	20.1	21.1	21.2	20.1	18.0	15.6	14.3	13.6	12.8	12.0	11.9	15.7	21.2	11.9
4	11.7	11.0	10.6	10.7	10.9	10.4	10.6	10.1	10.9	12.7	15.1	16.4	16.3	16.8	16.3	16.1	15.3	14.0	12.8	12.4	11.2	10.0	10.2	10.4	12.6	16.8	10.0
5	9.8	9.4	8.8	8.2	8.0	7.3	7.1	6.6	8.7	11.6	13.0	13.6	14.6	15.3	15.7	14.8	14.1	12.7	10.9	9.8	10.3	10.1	9.5	8.2	10.8	15.7	6.6
6	8.0	9.4	9.3	10.4	10.4	9.6	9.1	9.1	9.4	10.4	11.6	12.8	13.9	14.9	15.9	16.2	16.1	15.3	14.2	14.5	13.8	12.7	11.8	11.6	12.1	16.2	8.0
7	12.8	11.2	11.1	11.8	11.7	11.4	11.4	11.1	11.9	12.9	13.7	15.1	15.6	16.9	17.8	18.1	16.2	15.5	15.0	14.6	13.8	13.0	12.3	12.0	13.6	18.1	11.1
8	11.7	10.8	10.9	10.6	10.5	10.2	10.7	9.7	10.4	13.3	14.8	15.8	17.0	17.3	16.6	16.4	15.7	14.3	12.4	11.7	10.4	9.7	10.3	9.8	12.6	17.3	9.7
9	10.1	9.5	9.2	9.2	9.1	8.7	9.9	9.9	11.8	12.6	13.5	14.7	15.8	16.2	16.7	16.7	15.9	14.5	12.4	11.0	10.1	9.3	9.4	8.5	11.9	16.7	8.5
10	8.4	8.1	7.8	7.3	7.7	7.0	7.1	6.8	7.6	10.6	12.8	13.6	13.9	14.3	15.0	14.4	14.1	13.1	12.2	11.0	9.8	9.7	10.0	9.0	10.5	15.0	6.8
11	10.1	9.5	9.8	9.8	10.0	10.8	10.2	9.3	9.9	12.6	14.5	16.0	17.3	18.0	19.1	19.1	19.1	17.6	15.3	14.0	13.2	12.4	12.0	12.1	13.4	19.1	9.3
12	11.5	11.8	11.4	10.9	10.5	10.0	10.9	10.5	11.2	13.0	14.3	15.9	17.1	17.3	17.4	16.7	15.3	14.3	13.5	12.2	11.6	11.9	11.2	11.7	13.0	17.4	10.0
13	13.9	13.4	12.3	10.5	10.2	9.5	10.1	8.9	9.6	11.7	14.8	16.7	16.7	--	--	17.0	16.4	15.0	13.4	11.5	10.8	10.2	10.1	9.8	12.4	17.0	8.9
14	10.0	10.0	10.9	10.6	9.6	10.5	9.1	9.0	10.7	14.6	17.1	17.8	18.9	19.9	20.9	20.9	20.4	19.2	17.4	17.0	14.1	13.3	14.1	15.2	14.6	20.9	9.0
15	14.5	14.9	14.9	14.7	14.0	14.1	13.5	13.4	13.9	16.9	17.8	18.6	19.7	20.7	21.7	22.0	20.0	18.4	16.9	14.8	14.3	13.5	13.3	13.0	16.2	22.0	13.0
16	12.6	12.3	12.5	12.7	13.4	13.3	14.4	16.9	16.6	17.5	18.5	19.5	20.7	21.6	22.1	22.6	21.8	20.3	18.0	16.5	15.9	15.6	16.8	16.7	17.0	22.6	12.3
17	17.7	18.3	18.1	16.8	15.2	13.5	13.2	12.7	13.7	17.1	17.9	19.1	20.1	20.6	21.4	21.6	21.1	19.9	18.4	16.5	15.1	15.6	15.9	15.0	17.3	21.6	12.7
18	13.1	13.6	13.3	13.2	12.6	13.0	13.7	13.7	14.6	17.4	19.2	20.1	21.5	22.3	21.6	21.0	20.3	18.8	16.7	17.1	17.1	17.0	18.0	18.5	17.0	22.3	12.6
19	18.1	18.1	17.7	17.4	17.2	16.9	16.7	16.3	16.6	17.7	18.6	19.7	20.7	21.3	22.0	22.5	21.5	19.7	18.7	18.0	17.5	16.1	15.9	15.4	18.3	22.5	15.4
20	15.1	15.0	14.8	13.5	13.3	13.3	13.6	13.4	14.2	16.2	18.2	20.0	21.1	21.5	21.5	21.3	20.8	19.3	17.5	15.8	15.1	14.4	15.6	16.7	16.7	21.5	13.3
21	15.5	15.3	14.7	16.3	16.1	16.4	17.3	16.6	15.8	17.4	18.6	19.8	20.3	21.3	21.9	22.3	21.7	20.3	19.8	19.6	19.3	18.9	18.6	18.5	18.4	22.3	14.7
22	18.4	18.1	17.5	17.1	17.0	16.3	15.9	15.6	16.4	17.3	19.2	21.2	21.7	21.3	21.3	21.5	20.4	19.0	17.4	15.9	14.7	13.6	13.3	13.2	17.6	21.7	13.2
23	12.7	11.9	11.8	11.6	11.9	11.9	11.5	10.3	12.1	15.5	17.1	19.1	19.6	19.5	20.3	20.3	20.1	18.8	16.8	16.7	18.1	17.3	16.4	15.4	15.7	20.3	10.3
24	14.8	14.1	13.7	12.9	12.4	12.1	11.4	11.4	12.0	12.5	12.9	13.6	13.9	14.9	15.6	15.7	15.6	15.3	15.0	14.7	15.0	14.7	14.5	14.5	13.9	15.7	11.4
25	14.6	14.7	14.0	13.9	13.9	14.6	14.5	13.7	13.5	15.6	17.4	19.2	19.3	19.4	19.7	19.7	19.3	18.6	17.8	16.9	15.0	14.3	13.9	13.1	16.1	19.7	13.1
26	12.3	12.2	11.7	11.6	11.3	11.1	10.8	10.6	11.9	14.6	16.6	17.0	17.9	18.7	18.7	18.5	18.0	17.1	15.8	15.0	13.9	13.5	13.1	12.3	14.4	18.7	10.6
27	11.7	11.1	12.2	12.2	12.3	12.8	12.9	12.6	13.7	14.2	17.0	17.6	17.9	18.2	18.9	19.0	18.3	17.0	15.5	14.7	13.2	12.9	12.6	11.7	14.6	19.0	11.1
28	11.6	11.4	11.3	10.7	10.5	10.8	10.9	10.5	12.3	14.5	16.9	19.0	19.0	18.7	19.1	19.2	18.6	17.1	15.9	14.2	13.2	13.0	12.3	12.4	14.3	19.2	10.5
29	12.2	12.1	11.7	11.5	12.2	11.5	12.0	11.7	11.8	15.2	17.1	18.7	19.3	19.1	19.8	20.0	19.4	18.0	16.9	15.5	15.1	14.2	14.3	13.9	15.1	20.0	11.5
30	14.0	13.3	13.4	13.2	12.4	11.9	12.4	13.9	13.2	14.6	18.4	20.7	21.6	22.3	22.1	21.7	21.1	20.3	19.3	19.3	18.8	18.7	18.0	17.8	17.2	22.3	11.9
31	17.5	17.4	16.9	16.5	16.2	15.5	15.1	14.5	14.7	14.8	14.7	15.0	16.2	16.5	16.1	14.9	14.6	13.7	13.0	12.8	12.5	12.0	11.9	11.5	14.8	17.5	11.5
Avg	13.2	12.9	12.7	12.5	12.3	12.1	12.1	11.9	12.6	14.5	16.2	17.4	18.2	18.8	19.1	19.0	18.3	17.1	15.7	14.8	14.2	13.7	13.6	13.3	14.8	--	--
Max	18.4	18.3	18.1	17.4	17.2	16.9	17.3	16.9	16.6	17.7	19.2	21.2	21.7	22.3	22.1	22.6	21.8	20.3	19.8	19.6	19.3	18.9	18.6	18.5	--	22.6	--
Min	8.0	8.1	7.8	7.3	7.7	7.0	7.1	6.6	7.6	10.4	11.6	12.8	13.9	14.3	15.0	14.4	14.1	12.7	10.9	9.8	9.8	9.3	9.4	8.2	--	--	6.6

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Feb 2014

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	11.2	10.9	10.7	10.3	9.8	9.3	8.9	8.1	7.9	10.7	11.6	12.2	11.8	12.7	11.9	11.9	12.0	11.5	10.6	9.9	9.2	8.6	7.8	7.1	10.3	12.7	7.1
2	6.7	6.5	5.9	6.0	6.0	5.3	5.3	6.0	7.3	9.4	11.1	12.4	12.6	12.5	12.5	12.7	12.1	11.5	11.1	10.8	10.5	10.4	10.4	9.9	9.4	12.7	5.3
3	9.4	9.6	9.4	9.6	9.0	8.4	8.2	8.2	8.0	10.6	12.9	12.8	12.3	11.4	10.8	10.7	10.5	9.7	8.9	8.3	8.0	7.8	6.1	5.7	9.4	12.9	5.7
4	5.4	4.7	4.7	4.7	4.5	4.2	4.5	4.2	5.8	8.1	9.3	9.4	9.5	10.5	11.1	11.4	11.0	10.6	9.4	8.6	8.5	8.6	8.6	8.8	7.8	11.4	4.2
5	8.9	9.1	9.3	9.2	9.3	8.9	8.8	9.1	9.4	10.4	11.6	11.7	10.6	9.6	10.5	11.0	11.0	10.7	10.4	9.8	9.1	8.2	7.3	7.1	9.6	11.7	7.1
6	6.8	6.8	7.4	7.2	6.4	7.0	7.5	8.0	8.4	8.9	9.5	11.1	11.9	12.2	12.5	12.4	12.0	11.7	11.2	10.7	10.4	10.4	10.4	10.4	9.6	12.5	6.4
7	10.6	9.8	10.2	9.9	9.6	9.4	9.5	9.1	9.4	9.9	10.6	11.5	12.4	13.5	14.3	14.5	14.2	13.4	12.6	11.2	11.2	10.1	9.4	9.5	11.1	14.5	9.1
8	9.4	9.1	9.3	9.0	8.6	8.7	8.7	9.9	10.6	12.9	14.6	15.7	16.2	17.2	17.6	17.4	17.5	16.4	15.0	13.7	13.1	12.5	12.4	12.2	12.8	17.6	8.6
9	11.8	12.0	11.2	11.3	12.1	12.2	10.6	11.4	13.3	16.1	17.8	19.0	20.0	20.3	20.2	20.5	20.5	19.2	17.7	16.4	15.6	14.8	14.4	14.2	15.5	20.5	10.6
10	13.6	13.8	13.8	13.7	12.4	12.4	12.0	11.8	13.2	16.0	18.5	19.4	20.0	20.4	20.7	20.9	20.5	19.2	17.5	16.9	16.1	16.2	14.5	14.6	16.2	20.9	11.8
11	14.2	14.3	14.0	12.8	13.9	15.6	15.4	15.6	16.3	17.9	18.9	19.4	19.7	20.6	21.0	20.0	19.6	18.5	17.2	16.7	15.5	14.4	13.6	13.1	16.6	21.0	12.8
12	12.7	13.0	13.3	13.6	13.1	12.5	12.5	12.4	14.4	17.3	18.6	20.0	21.5	21.6	21.4	21.7	21.1	20.4	18.7	16.8	16.1	15.4	15.0	14.5	16.6	21.7	12.4
13	14.4	13.9	14.3	14.1	13.2	12.6	12.4	12.4	15.9	17.6	20.0	21.4	22.7	23.3	24.0	24.2	23.5	22.7	21.0	20.0	18.4	17.7	16.9	16.5	18.0	24.2	12.4
14	15.8	15.7	15.7	15.5	15.1	14.6	16.0	16.0	16.6	19.7	21.9	23.6	24.5	25.4	25.2	25.3	25.3	24.6	22.7	20.4	18.9	18.4	18.2	17.7	19.7	25.4	14.6
15	17.5	18.4	17.8	17.9	17.2	16.3	15.2	15.9	18.7	22.2	24.3	26.2	26.5	26.6	27.1	27.3	26.6	24.8	22.7	20.9	19.9	19.6	18.7	18.2	21.1	27.3	15.2
16	18.5	18.4	18.5	17.2	17.0	16.7	16.2	17.4	17.8	21.1	23.6	24.8	25.4	25.5	25.9	25.1	24.2	23.2	21.6	19.7	19.8	18.5	17.6	17.6	20.5	25.9	16.2
17	16.9	17.5	18.4	18.3	16.9	16.5	16.9	17.1	18.6	21.2	22.9	24.4	26.0	26.8	26.8	26.2	25.8	24.5	22.7	21.0	19.9	18.9	18.4	18.4	20.9	26.8	16.5
18	18.0	17.3	16.8	16.7	17.1	16.6	16.4	15.7	17.7	20.9	23.3	24.3	24.6	24.9	25.0	25.0	24.5	23.1	21.6	20.2	19.6	18.2	18.5	17.3	20.1	25.0	15.7
19	17.2	16.4	16.5	16.2	16.1	16.0	15.3	15.7	16.1	17.8	19.0	21.0	21.0	21.4	21.4	21.5	21.4	20.6	19.0	18.0	16.7	15.5	16.5	16.2	18.0	21.5	15.3
20	15.2	13.9	14.3	13.2	15.8	16.0	16.0	14.0	14.6	15.7	16.7	17.9	18.7	19.6	20.2	20.7	20.1	19.2	17.5	16.4	14.9	14.0	13.9	13.5	16.3	20.7	13.2
21	13.0	13.4	13.4	12.2	11.6	12.7	12.8	12.5	14.1	15.7	17.3	18.6	19.7	20.2	20.9	21.3	20.7	19.8	18.3	16.6	15.1	14.1	13.8	13.8	15.9	21.3	11.6
22	12.9	12.8	12.4	12.6	13.2	13.0	12.2	12.2	16.0	18.2	19.8	20.7	21.8	22.2	22.3	21.4	21.0	19.9	18.8	18.0	16.8	16.5	16.0	15.3	16.9	22.3	12.2
23	15.0	14.8	14.5	14.4	15.4	15.7	15.4	16.4	17.8	19.7	21.8	23.0	23.3	23.7	23.1	22.4	22.6	21.5	19.9	18.5	18.6	17.1	16.5	16.0	18.6	23.7	14.4
24	16.4	15.9	15.7	15.7	15.1	16.3	16.0	16.6	17.6	20.0	22.3	23.7	24.7	24.7	24.7	23.9	23.0	22.1	21.4	20.7	19.6	19.4	18.7	18.5	19.7	24.7	15.1
25	18.0	17.3	17.1	16.3	16.3	15.9	15.5	15.5	16.8	18.2	19.2	20.4	21.2	20.9	21.0	20.3	19.7	19.0	18.5	18.1	17.5	17.1	16.7	16.3	18.0	21.2	15.5
26	16.5	16.0	15.3	14.4	13.9	13.4	14.1	13.4	16.6	18.7	19.8	20.5	21.5	22.2	21.6	22.3	22.2	21.2	19.8	19.3	18.6	17.9	16.9	16.0	18.0	22.3	13.4
27	15.4	15.2	14.9	14.1	13.6	12.9	12.3	12.7	15.2	16.3	18.2	18.9	19.6	20.6	20.7	20.0	20.3	19.9	18.6	17.5	16.7	15.7	14.7	14.3	16.6	20.7	12.3
28	14.1	13.8	13.0	13.6	13.6	14.3	15.0	14.7	16.1	18.3	20.3	21.0	22.5	23.8	23.4	22.4	22.2	21.8	21.4	20.8	20.8	19.9	19.2	19.0	18.5	23.8	13.0
Avg	13.4	13.2	13.1	12.8	12.7	12.6	12.5	12.6	13.9	16.1	17.7	18.7	19.4	19.8	19.9	19.8	19.5	18.6	17.3	16.3	15.5	14.9	14.3	14.0	15.8	--	--
Max	18.5	18.4	18.5	18.3	17.2	16.7	16.9	17.4	18.7	22.2	24.3	26.2	26.5	26.8	27.1	27.3	26.6	24.8	22.7	21.0	20.8	19.9	19.2	19.0	--	27.3	--
Min	5.4	4.7	4.7	4.7	4.5	4.2	4.5	4.2	5.8	8.1	9.3	9.4	9.5	9.6	10.5	10.7	10.5	9.7	8.9	8.3	8.0	7.8	6.1	5.7	--	--	4.2

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Mar 2014

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	19.0	18.8	18.0	16.7	14.5	14.4	13.2	12.5	12.3	11.8	12.0	12.3	12.3	13.1	15.3	15.6	16.2	15.4	14.5	14.0	13.6	13.1	10.6	8.9	14.1	19.0	8.9
2	8.2	7.8	8.1	8.0	7.8	8.1	7.8	7.9	8.9	10.6	11.3	11.7	13.4	15.0	15.5	15.5	15.6	13.9	13.1	12.6	12.3	12.2	12.0	11.2	11.2	15.6	7.8
3	10.8	10.8	11.1	11.7	10.2	9.6	9.4	10.0	11.3	13.4	15.6	17.3	18.3	19.0	19.1	19.7	19.6	18.7	17.2	15.9	14.4	14.1	13.6	13.6	14.3	19.7	9.4
4	13.2	13.1	12.7	12.6	12.6	12.8	13.2	14.3	14.0	14.8	15.8	17.4	18.4	19.0	18.9	18.8	18.8	18.1	17.2	16.3	15.3	14.0	13.8	13.4	15.4	19.0	12.6
5	12.8	13.1	13.1	12.3	12.0	12.8	12.7	12.3	15.2	17.0	18.7	20.1	21.4	21.4	22.5	23.2	23.0	22.5	21.0	19.5	18.4	17.1	17.5	17.9	17.4	23.2	12.0
6	17.3	16.7	16.1	16.7	15.4	15.5	16.4	17.6	18.5	19.9	21.3	22.7	24.1	24.3	23.6	22.9	22.3	21.7	20.0	18.1	16.7	16.3	15.6	15.4	19.0	24.3	15.4
7	15.6	14.9	14.3	13.8	14.2	14.3	13.1	13.4	16.6	18.6	19.4	20.3	21.5	21.1	21.6	21.6	21.1	20.1	18.8	18.0	17.2	15.9	15.8	15.7	17.4	21.6	13.1
8	15.6	15.1	14.8	14.0	15.9	16.2	15.4	15.4	16.6	17.5	18.4	19.5	20.5	21.1	21.0	21.0	20.9	20.0	19.1	18.2	17.1	16.2	15.4	14.9	17.5	21.1	14.0
9	14.7	14.0	--	13.8	12.4	12.0	11.1	11.2	13.2	15.4	17.3	19.0	20.0	20.9	21.5	21.8	22.0	21.7	20.0	18.3	16.6	17.0	16.0	15.1	16.7	22.0	11.1
10	15.2	15.5	14.8	14.4	13.8	13.7	12.8	13.5	15.8	17.7	19.7	20.9	21.4	22.4	22.6	22.6	22.4	21.8	20.1	18.2	17.2	16.1	15.2	15.0	17.6	22.6	12.8
11	14.5	14.0	13.9	13.3	13.3	12.5	12.5	13.2	15.7	17.7	18.5	19.2	20.1	21.3	21.3	21.7	21.2	20.4	19.6	18.7	17.3	16.1	15.6	15.1	16.9	21.7	12.5
12	14.9	14.6	14.6	13.5	13.4	14.1	13.3	14.2	16.5	18.1	19.2	20.5	21.8	22.8	23.2	23.1	22.8	21.7	20.6	19.9	18.8	18.3	17.9	17.2	18.1	23.2	13.3
13	16.7	17.1	16.5	15.6	15.1	15.0	15.0	15.2	15.9	17.3	19.1	20.9	22.3	22.8	22.6	22.4	21.8	21.4	20.5	19.5	18.3	18.1	17.3	17.1	18.5	22.8	15.0
14	17.0	16.4	15.4	14.4	14.2	14.3	14.0	14.4	15.6	16.2	17.1	18.3	18.1	18.6	18.6	15.0	16.6	17.6	16.7	16.1	15.0	14.1	14.0	13.8	15.9	18.6	13.8
15	13.3	12.7	12.4	12.5	12.0	11.7	11.9	11.9	15.5	17.4	18.5	20.3	21.7	22.6	22.5	23.2	23.2	22.7	21.7	20.6	20.0	19.1	18.0	17.0	17.6	23.2	11.7
16	16.1	15.4	14.9	14.6	13.6	12.7	12.1	12.2	14.6	16.2	17.7	19.2	21.0	21.8	22.1	21.9	22.1	21.6	20.1	18.1	16.5	16.0	15.4	14.9	17.1	22.1	12.1
17	14.2	14.1	14.5	13.7	12.9	12.2	11.7	13.9	16.7	19.4	20.8	21.2	21.9	22.6	23.6	24.5	24.3	23.8	22.4	20.3	20.0	18.8	19.0	16.9	18.5	24.5	11.7
18	16.6	15.8	15.6	14.4	13.5	13.4	13.6	14.0	17.0	17.8	18.9	19.4	20.9	22.0	21.9	22.0	21.3	20.4	18.9	17.9	16.7	15.4	15.8	13.8	17.4	22.0	13.4
19	13.5	13.1	13.1	13.1	12.8	12.9	12.3	13.3	15.1	18.1	19.8	20.9	22.5	22.4	23.5	23.3	22.8	22.3	20.8	19.2	17.3	16.5	15.4	15.1	17.5	23.5	12.3
20	14.6	14.6	14.2	14.2	14.8	15.0	14.4	15.9	18.7	20.9	22.5	23.7	23.8	24.5	24.7	24.0	23.7	23.0	21.8	20.6	19.5	18.6	17.7	16.7	19.3	24.7	14.2
21	16.0	15.3	15.0	14.5	13.7	13.2	13.0	14.9	18.2	20.3	21.1	21.6	23.0	23.3	23.0	23.4	23.1	22.5	21.4	20.1	18.6	17.2	16.9	16.3	18.6	23.4	13.0
22	16.1	15.4	15.3	15.1	14.5	12.9	13.3	14.3	16.5	19.0	20.1	20.5	20.9	21.6	22.4	23.0	22.8	22.2	21.0	19.7	18.0	16.9	16.2	16.0	18.1	23.0	12.9
23	15.6	15.2	15.0	15.0	14.3	14.7	14.4	16.0	17.3	20.1	22.1	23.4	24.0	24.2	24.6	24.5	24.6	23.7	22.1	21.2	20.3	18.9	18.0	17.8	19.5	24.6	14.3
24	16.7	16.3	15.6	15.7	15.8	15.2	14.8	16.8	19.5	20.3	22.6	23.6	25.3	25.4	26.5	26.0	24.8	24.2	23.4	21.8	20.7	19.4	18.3	18.2	20.3	26.5	14.8
25	19.4	18.1	17.8	18.5	17.9	17.3	15.9	17.8	19.4	22.9	24.4	26.0	26.4	26.6	25.8	25.1	23.5	21.4	21.4	20.5	19.2	19.2	18.7	18.2	20.9	26.6	15.9
26	17.8	16.9	16.6	15.5	15.2	15.3	15.2	15.8	18.1	19.0	20.3	20.6	20.8	21.0	21.4	21.5	21.0	20.1	19.1	17.6	16.7	15.9	15.0	14.1	17.9	21.5	14.1
27	13.5	13.3	12.5	11.6	10.7	10.0	9.7	10.8	12.8	13.9	15.1	17.0	17.5	18.1	18.2	18.1	17.7	17.2	16.2	15.2	14.7	13.9	12.7	12.1	14.3	18.2	9.7
28	11.8	11.6	11.1	11.0	10.9	10.1	10.3	11.9	14.4	16.5	17.5	18.6	19.6	20.1	20.9	21.1	20.9	20.2	18.9	17.8	16.6	16.1	15.1	14.5	15.7	21.1	10.1
29	14.2	14.1	14.4	13.5	13.6	13.8	12.9	15.2	18.0	20.0	22.2	23.8	24.9	25.8	26.4	27.1	26.8	25.8	24.1	22.3	21.1	19.4	18.7	17.9	19.8	27.1	12.9
30	17.5	18.0	18.2	16.9	16.7	16.6	15.9	16.5	17.9	19.6	21.5	21.0	21.5	22.6	23.0	23.0	22.4	21.6	20.2	18.8	18.3	16.4	15.1	14.5	18.9	23.0	14.5
31	14.4	13.8	13.1	12.4	13.2	13.2	14.1	15.5	17.6	19.5	20.9	21.6	23.1	23.1	23.8	23.8	23.9	23.3	21.7	20.2	19.2	17.9	17.4	15.7	18.4	23.9	12.4
Avg	15.1	14.7	14.4	14.0	13.6	13.4	13.1	13.9	15.9	17.6	19.0	20.1	21.0	21.6	22.0	21.9	21.7	21.0	19.8	18.6	17.5	16.6	15.9	15.3	17.4	--	--
Max	19.4	18.8	18.2	18.5	17.9	17.3	16.4	17.8	19.5	22.9	24.4	26.0	26.4	26.6	26.5	27.1	26.8	25.8	24.1	22.3	21.1	19.4	19.0	18.2	--	27.1	--
Min	8.2	7.8	8.1	8.0	7.8	8.1	7.8	7.9	8.9	10.6	11.3	11.7	12.3	13.1	15.3	15.0	15.6	13.9	13.1	12.6	12.3	12.2	10.6	8.9	--	--	7.8

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Jan 2014

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	4	108	330	478	575	608	575	474	323	137	7	0	0	0	0	0	0	151	608	0
2	0	0	0	0	0	0	0	3	109	337	496	596	625	587	478	318	119	4	0	0	0	0	0	0	153	625	0
3	0	0	0	0	0	0	0	4	108	332	485	582	608	576	477	326	131	9	0	0	0	0	0	0	152	608	0
4	0	0	0	0	0	0	0	7	91	237	368	432	415	478	381	200	71	3	0	0	0	0	0	0	112	478	0
5	0	0	0	0	0	0	0	3	113	344	507	606	642	607	508	349	155	9	0	0	0	0	0	0	160	642	0
6	0	0	0	0	0	0	0	4	118	358	517	616	648	611	508	355	159	10	0	0	0	0	0	0	163	648	0
7	0	0	0	0	0	0	0	8	107	254	489	652	638	588	495	271	62	6	0	0	0	0	0	0	149	652	0
8	0	0	0	0	0	0	0	3	107	341	493	592	630	598	504	354	159	10	0	0	0	0	0	0	158	630	0
9	0	0	0	0	0	0	0	7	81	242	281	378	381	478	510	352	164	15	0	0	0	0	0	0	120	510	0
10	0	0	0	0	0	0	0	4	110	330	488	586	622	594	498	350	158	19	0	0	0	0	0	0	157	622	0
11	0	0	0	0	0	0	0	3	112	336	492	592	629	599	486	352	168	18	0	0	0	0	0	0	158	629	0
12	0	0	0	0	0	0	0	12	73	208	472	600	637	610	516	225	60	10	0	0	0	0	0	0	143	637	0
13	0	0	0	0	0	0	0	3	117	350	516	617	649	--	--	371	170	13	0	0	0	0	0	0	128	649	0
14	0	0	0	0	0	0	0	4	109	361	528	630	660	618	513	357	159	13	0	0	0	0	0	0	165	660	0
15	0	0	0	0	0	0	0	3	128	371	531	632	663	623	517	359	161	14	0	0	0	0	0	0	167	663	0
16	0	0	0	0	0	0	0	4	128	373	537	636	659	619	514	363	166	15	0	0	0	0	0	0	167	659	0
17	0	0	0	0	0	0	0	3	130	377	538	634	664	627	527	371	169	16	0	0	0	0	0	0	169	664	0
18	0	0	0	0	0	0	0	3	130	377	540	639	671	632	531	354	139	14	0	0	0	0	0	0	168	671	0
19	0	0	0	0	0	0	0	8	93	349	445	613	607	519	528	361	87	16	0	0	0	0	0	0	151	613	0
20	0	0	0	0	0	0	0	4	111	336	501	633	665	632	533	376	174	21	0	0	0	0	0	0	166	665	0
21	0	0	0	0	0	0	0	4	129	387	550	638	662	614	527	353	139	16	0	0	0	0	0	0	168	662	0
22	0	0	0	0	0	0	0	11	92	288	541	675	616	631	522	380	177	26	0	0	0	0	0	0	165	675	0
23	0	0	0	0	0	0	0	5	140	374	544	643	587	525	458	328	168	15	0	0	0	0	0	0	158	643	0
24	0	0	0	0	0	0	0	10	112	223	416	404	484	469	382	230	108	16	0	0	0	0	0	0	119	484	0
25	0	0	0	0	0	0	0	4	122	373	524	623	656	624	527	371	144	36	0	0	0	0	0	0	167	656	0
26	0	0	0	0	0	0	0	5	134	369	529	632	670	641	545	395	178	29	0	0	0	0	0	0	172	670	0
27	0	0	0	0	0	0	0	4	119	266	544	638	557	646	554	405	191	38	0	0	0	0	0	0	165	646	0
28	0	0	0	0	0	0	0	5	146	392	556	661	695	661	561	409	187	17	0	0	0	0	0	0	179	695	0
29	0	0	0	0	0	0	0	5	147	396	557	656	689	591	500	428	208	32	0	0	0	0	0	0	175	689	0
30	0	0	0	0	0	0	0	14	89	259	515	624	687	660	514	345	196	25	0	0	0	0	0	0	164	687	0
31	0	0	0	0	0	0	0	10	53	70	92	217	549	487	304	130	74	18	0	0	0	0	0	0	84	549	0
Avg	0	0	0	0	0	0	0	6	112	321	486	589	618	591	496	338	146	17	0	0	0	0	0	0	154	--	--
Max	0	0	0	0	0	0	0	14	147	396	557	675	695	661	561	428	208	38	0	0	0	0	0	0	--	695	--
Min	0	0	0	0	0	0	0	3	53	70	92	217	381	469	304	130	60	3	0	0	0	0	0	0	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Feb 2014

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	5	152	407	460	563	235	413	201	267	199	55	0	0	0	0	0	0	123	563	0
2	0	0	0	0	0	0	0	6	160	411	576	679	713	687	557	424	142	25	0	0	0	0	0	0	183	713	0
3	0	0	0	0	0	0	0	8	156	469	647	635	393	230	192	212	90	16	0	0	0	0	0	0	127	647	0
4	0	0	0	0	0	0	0	8	165	411	547	332	302	358	422	385	217	51	0	0	0	0	0	0	133	547	0
5	0	0	0	0	0	0	0	10	59	258	330	152	133	210	407	283	147	31	0	0	0	0	0	0	84	407	0
6	0	0	0	0	0	0	0	9	94	156	319	423	309	296	328	175	73	19	0	0	0	0	0	0	92	423	0
7	0	0	0	0	0	0	0	4	61	194	201	429	301	550	610	413	266	33	0	0	0	0	0	0	128	610	0
8	0	0	0	0	0	0	0	20	164	384	546	676	716	693	588	444	257	61	0	0	0	0	0	0	189	716	0
9	0	0	0	0	0	0	0	9	190	429	590	696	731	701	602	457	257	57	0	0	0	0	0	0	197	731	0
10	0	0	0	0	0	0	0	20	196	409	588	689	731	705	611	460	251	67	0	0	0	0	0	0	197	731	0
11	0	0	0	0	0	0	0	15	208	452	608	718	759	702	602	380	258	52	0	0	0	0	0	0	198	759	0
12	0	0	0	0	0	0	0	9	211	454	622	720	724	700	621	461	236	73	0	0	0	0	0	0	201	724	0
13	0	0	0	0	0	0	0	9	214	452	617	713	721	708	611	461	276	80	0	0	0	0	0	0	203	721	0
14	0	0	0	0	0	0	0	10	214	451	604	708	759	712	559	439	296	87	1	0	0	0	0	0	202	759	0
15	0	0	0	0	0	0	0	10	227	471	634	731	740	746	641	482	253	63	0	0	0	0	0	0	208	746	0
16	0	0	0	0	0	0	0	10	225	455	601	679	586	628	575	263	139	51	0	0	0	0	0	0	175	679	0
17	0	0	0	0	0	0	0	11	235	475	643	747	783	748	648	497	296	87	1	0	0	0	0	0	215	783	0
18	0	0	0	0	0	0	0	17	226	452	569	719	630	668	636	444	259	70	0	0	0	0	0	0	195	719	0
19	0	0	0	0	0	0	0	38	148	281	340	514	482	571	493	422	276	80	1	0	0	0	0	0	152	571	0
20	0	0	0	0	0	0	0	26	238	495	662	771	809	774	639	481	294	105	0	0	0	0	0	0	221	809	0
21	0	0	0	0	0	0	0	30	159	359	471	737	503	597	589	521	248	97	1	0	0	0	0	0	180	737	0
22	0	0	0	0	0	0	0	16	274	498	655	765	810	747	539	283	184	56	0	0	0	0	0	0	201	810	0
23	0	0	0	0	0	0	0	37	206	507	690	785	808	628	451	340	314	67	0	0	0	0	0	0	201	808	0
24	0	0	0	0	0	0	0	36	165	467	631	774	808	766	567	334	151	38	1	0	0	0	0	0	197	808	0
25	0	0	0	0	0	0	0	23	94	155	344	404	355	290	311	236	144	24	0	0	0	0	0	0	99	404	0
26	0	0	0	0	0	0	0	19	286	497	659	761	803	776	436	529	317	89	2	0	0	0	0	0	216	803	0
27	0	0	0	0	0	0	0	21	294	496	659	766	794	816	495	286	230	111	2	0	0	0	0	0	207	816	0
28	0	0	0	0	0	0	0	39	333	477	667	743	813	688	414	175	148	34	0	0	0	0	0	0	189	813	0
Avg	0	0	0	0	0	0	0	17	191	408	553	644	616	611	512	377	222	60	0	0	0	0	0	0	175	--	--
Max	0	0	0	0	0	0	0	39	333	507	690	785	813	816	648	529	317	111	2	0	0	0	0	0	--	816	--
Min	0	0	0	0	0	0	0	4	59	155	201	152	133	210	192	175	73	16	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Mar 2014

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	1	0	3	11	29	14	78	117	117	564	320	371	136	5	0	0	0	0	0	74	564	0
2	0	0	0	1	0	1	1	45	139	500	332	422	924	858	757	540	204	18	0	0	0	0	0	0	198	924	0
3	0	0	0	0	0	0	0	40	300	311	681	806	775	815	748	522	321	132	6	0	0	0	0	0	227	815	0
4	0	0	0	0	0	0	0	40	141	317	436	598	731	723	463	464	266	104	4	0	0	0	0	0	179	731	0
5	0	0	0	0	0	0	1	43	350	558	632	811	818	577	659	552	358	131	3	0	0	0	0	0	229	818	0
6	0	0	0	0	0	0	0	42	167	409	655	600	756	584	454	269	139	81	5	0	0	0	0	0	173	756	0
7	0	0	0	0	0	0	0	62	343	551	716	822	858	829	725	562	355	133	2	0	0	0	0	0	248	858	0
8	0	0	0	0	0	0	1	73	365	580	732	810	884	852	743	557	376	147	8	0	0	0	0	0	255	884	0
9	0	0	--	0	0	0	1	79	378	597	764	872	908	866	752	589	377	149	8	0	0	0	0	0	276	908	0
10	0	0	0	0	0	0	1	91	380	593	759	859	891	848	749	592	383	151	12	0	0	0	0	0	263	891	0
11	0	0	0	0	0	0	2	96	371	584	754	858	892	855	746	578	319	93	7	0	0	0	0	0	256	892	0
12	0	0	0	0	0	0	2	102	378	594	763	866	892	844	732	581	335	74	4	0	0	0	0	0	257	892	0
13	0	0	0	0	0	0	3	106	329	515	741	879	830	740	517	201	191	67	4	0	0	0	0	0	213	879	0
14	0	0	0	0	0	0	6	65	281	251	531	934	587	525	413	184	154	138	8	0	0	0	0	0	170	934	0
15	0	0	0	0	0	0	3	115	387	605	775	884	924	890	774	613	403	169	8	0	0	0	0	0	273	924	0
16	0	0	0	0	0	0	2	127	413	633	797	897	927	887	780	617	403	171	8	0	0	0	0	0	278	927	0
17	0	0	0	0	0	0	4	132	356	613	796	891	924	895	778	579	402	166	12	0	0	0	0	0	273	924	0
18	0	0	0	0	0	0	8	141	419	639	799	906	932	865	723	535	363	123	11	0	0	0	0	0	269	932	0
19	0	0	0	0	0	0	4	147	426	646	810	904	935	895	785	622	410	173	16	0	0	0	0	0	282	935	0
20	0	0	0	0	0	0	9	150	399	575	722	836	881	815	632	418	327	112	9	0	0	0	0	0	245	881	0
21	0	0	0	0	0	0	5	155	430	645	806	906	939	895	795	627	417	158	20	0	0	0	0	0	283	939	0
22	0	0	0	0	0	0	8	141	362	596	704	696	751	883	792	624	415	176	19	0	0	0	0	0	257	883	0
23	0	0	0	0	0	0	6	166	413	651	811	901	851	843	798	610	332	164	16	0	0	0	0	0	273	901	0
24	0	0	0	0	0	0	7	168	437	639	797	907	933	887	792	562	243	148	19	0	0	0	0	0	272	933	0
25	0	0	0	0	0	0	7	176	436	650	808	829	909	507	572	220	114	103	18	0	0	0	0	0	223	909	0
26	0	0	0	0	0	0	10	166	439	659	817	912	574	576	570	525	225	111	11	0	0	0	0	0	233	912	0
27	0	0	0	0	0	0	11	185	442	653	699	859	934	858	779	583	267	190	21	0	0	0	0	0	270	934	0
28	0	0	0	0	0	0	11	197	453	668	830	924	947	902	800	628	413	150	15	0	0	0	0	0	289	947	0
29	0	0	0	0	0	0	12	206	466	676	834	935	958	912	810	646	429	203	17	0	0	0	0	0	296	958	0
30	0	0	0	0	0	0	15	111	238	358	440	565	759	737	460	541	328	226	24	0	0	0	0	0	200	759	0
31	0	0	0	0	0	0	12	228	483	692	854	944	969	928	819	647	437	206	22	0	0	0	0	0	302	969	0
Avg	0	0	0	0	0	0	5	116	353	548	697	803	836	781	693	520	325	139	11	0	0	0	0	0	243	--	--
Max	0	0	0	1	0	1	15	228	483	692	854	944	969	928	819	647	437	226	24	0	0	0	0	0	--	969	--
Min	0	0	0	0	0	0	0	3	11	29	14	78	117	117	413	184	114	18	0	0	0	0	0	0	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Jan 2014

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	24	28	26	27	30	31	32	30	29	26	22	18	20	22	23	24	27	31	37	38	20	16	15	17	26	38	15
2	17	17	14	15	12	12	13	14	16	15	14	14	14	13	14	14	15	16	16	15	16	17	18	19	15	19	12
3	20	20	21	22	23	24	24	24	23	21	20	20	19	17	16	15	20	26	31	34	36	38	39	39	25	39	15
4	39	41	43	44	41	42	41	43	42	37	31	26	26	25	26	26	29	34	38	38	41	42	39	37	36	44	25
5	37	37	36	33	28	31	29	28	20	12	10	8	7	7	9	17	21	25	29	31	16	7	8	10	21	37	7
6	11	8	8	6	5	6	6	6	5	5	5	5	5	5	6	6	6	7	8	7	8	9	10	11	7	11	5
7	8	10	10	8	8	8	8	8	8	8	8	8	8	9	9	9	11	12	11	12	13	15	19	19	10	19	8
8	20	23	19	18	18	17	15	18	19	15	13	11	11	13	17	16	17	20	24	27	28	29	24	23	19	29	11
9	20	21	22	21	22	24	19	20	18	17	17	15	16	14	15	16	18	20	25	29	32	33	31	35	22	35	14
10	35	36	36	37	36	38	38	39	36	27	24	23	24	24	24	25	26	28	30	34	37	38	35	39	32	39	23
11	34	35	35	35	32	29	34	36	35	27	23	20	20	20	19	20	19	23	29	31	32	34	35	35	29	36	19
12	36	34	34	35	36	38	35	37	36	32	29	25	22	23	23	26	29	32	34	37	39	37	38	33	32	39	22
13	17	13	14	17	16	18	15	18	17	15	11	9	13	--	--	15	16	17	19	24	24	26	26	26	18	26	9
14	25	24	22	22	24	21	25	25	21	15	11	11	10	9	9	8	8	8	10	10	14	15	14	12	16	25	8
15	14	13	13	13	14	13	13	13	13	10	10	11	11	10	10	11	16	16	19	23	24	24	25	25	15	25	10
16	24	24	23	22	19	18	14	8	10	10	9	9	8	8	8	7	6	7	9	12	11	11	9	9	12	24	6
17	8	7	6	7	9	11	12	13	12	8	8	8	7	7	6	6	6	8	9	11	13	11	11	12	9	13	6
18	16	14	14	15	15	14	13	13	12	11	9	9	8	8	12	13	14	16	19	14	12	11	10	9	13	19	8
19	10	10	10	10	10	10	11	11	11	10	10	10	10	10	9	9	10	12	12	12	11	13	13	14	11	14	9
20	14	14	14	17	17	17	17	17	16	15	14	12	11	11	13	13	13	16	19	21	23	24	20	12	16	24	11
21	14	13	13	11	11	11	10	11	12	11	10	10	10	9	9	8	8	9	8	8	9	9	9	9	10	14	8
22	10	10	11	11	11	12	13	13	13	12	11	10	10	12	13	12	12	14	17	20	21	23	23	23	14	23	10
23	25	27	27	28	26	26	27	31	24	18	19	14	14	14	12	12	11	11	17	14	10	13	15	16	19	31	10
24	17	18	18	19	19	20	21	21	21	20	20	19	20	19	18	18	19	18	18	18	17	17	18	18	19	21	17
25	18	18	20	20	19	18	18	20	20	18	16	15	15	15	15	16	17	17	20	21	24	25	25	27	19	27	15
26	28	28	30	31	30	31	32	31	29	23	20	18	18	17	17	16	16	17	21	22	23	23	22	23	24	32	16
27	25	26	24	25	25	24	24	25	24	24	18	22	23	21	18	12	13	14	17	19	22	23	26	28	22	28	12
28	30	31	32	34	35	33	28	28	25	22	19	12	15	18	18	19	19	21	22	25	27	27	29	26	25	35	12
29	27	23	23	21	17	18	17	17	18	15	13	11	13	14	13	13	13	14	16	18	18	19	18	18	17	27	11
30	17	17	16	16	16	19	20	17	20	19	15	12	11	11	12	14	16	17	19	19	21	21	20	19	17	21	11
31	19	20	21	21	22	23	24	26	27	27	28	30	32	34	37	40	37	40	44	45	46	47	44	47	32	47	19
Avg	21	21	21	21	21	21	21	21	20	18	16	14	14	15	15	15	16	18	21	22	22	22	22	22	19	--	--
Max	39	41	43	44	41	42	41	43	42	37	31	30	32	34	37	40	37	40	44	45	46	47	44	47	--	47	--
Min	8	7	6	6	5	6	6	6	5	5	5	5	5	5	6	6	6	7	8	7	8	7	8	9	--	--	5

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Feb 2014

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	47	47	47	49	53	56	59	61	60	49	45	43	41	37	38	36	36	37	38	40	40	43	45	47	46	61	36
2	46	45	48	45	42	46	42	37	33	29	27	27	26	23	21	20	21	22	23	24	25	25	24	25	31	48	20
3	28	26	27	25	26	28	30	29	30	25	21	21	21	22	25	24	25	29	29	33	32	32	38	39	28	39	21
4	39	41	40	38	40	45	46	50	48	43	40	42	41	40	38	37	36	37	42	46	46	45	44	43	42	50	36
5	43	42	41	42	41	42	43	41	40	38	36	36	44	54	47	44	42	42	44	47	49	51	53	54	44	54	36
6	54	54	51	52	55	53	51	49	48	46	43	38	36	35	33	33	33	35	37	39	40	39	38	37	43	55	33
7	37	41	42	45	48	49	49	50	54	55	54	50	48	42	39	37	37	40	43	47	47	51	53	53	46	55	37
8	54	55	55	57	59	59	59	53	49	43	38	31	26	27	25	26	25	29	33	36	37	38	36	37	41	59	25
9	41	42	44	44	41	40	46	44	39	33	29	26	24	24	25	25	25	29	32	34	37	38	38	38	35	46	24
10	39	39	39	39	41	40	42	43	40	33	26	22	21	21	21	21	21	24	29	30	32	32	36	37	32	43	21
11	37	36	37	40	34	21	21	19	17	16	16	16	15	15	17	18	18	20	21	22	24	26	29	31	24	40	15
12	31	28	26	26	28	28	28	25	20	15	14	13	10	12	14	13	14	14	15	18	19	22	23	24	20	31	10
13	23	23	21	22	23	24	25	25	21	18	15	13	14	14	13	13	14	14	17	19	20	19	21	23	19	25	13
14	22	22	21	21	23	24	21	21	21	18	15	13	13	13	13	13	13	14	16	19	22	23	23	23	19	24	13
15	23	18	18	17	19	19	23	20	17	15	14	11	9	11	9	8	9	11	13	17	16	14	14	16	15	23	8
16	15	14	14	16	17	19	18	16	16	14	11	10	10	9	9	10	11	13	15	17	17	18	19	18	14	19	9
17	19	17	16	17	20	20	19	19	17	14	13	11	9	8	8	8	8	9	10	14	16	17	18	17	14	20	8
18	17	18	21	20	19	19	20	22	20	17	14	15	14	13	13	13	13	15	17	19	20	21	20	23	18	23	13
19	23	25	24	25	26	27	28	27	28	24	21	19	18	17	17	16	14	15	19	21	23	24	22	23	22	28	14
20	27	28	27	28	14	9	7	10	12	11	11	9	9	7	7	6	6	7	9	9	10	11	12	12	12	28	6
21	12	12	11	13	14	12	11	12	10	9	10	9	7	7	7	7	7	7	9	10	12	14	15	14	10	15	7
22	15	15	15	14	12	13	15	15	10	9	9	9	8	7	8	8	9	10	11	12	13	14	14	15	12	15	7
23	15	15	15	15	14	14	15	13	12	11	10	9	7	8	8	9	9	9	11	13	12	14	15	17	12	17	7
24	17	17	18	18	19	17	18	17	16	13	12	12	12	12	11	12	13	15	16	17	18	18	19	19	16	19	11
25	20	21	21	22	22	23	24	25	23	22	20	18	17	18	17	19	19	20	22	23	25	26	27	28	22	28	17
26	28	30	32	33	34	35	36	38	31	26	26	24	22	20	21	19	19	20	23	24	25	27	29	30	27	38	19
27	31	33	34	38	43	45	48	48	40	39	36	33	30	30	30	33	32	32	34	37	37	38	40	41	37	48	30
28	42	43	47	45	45	42	39	40	36	31	28	27	25	22	22	24	25	27	29	30	29	33	38	39	34	47	22
Avg	30	30	30	31	31	31	32	31	29	26	23	22	21	20	20	20	20	21	23	26	26	28	29	29	26	--	--
Max	54	55	55	57	59	59	59	61	60	55	54	50	48	54	47	44	42	42	44	47	49	51	53	54	--	61	--
Min	12	12	11	13	12	9	7	10	10	9	9	9	7	7	7	6	6	7	9	9	10	11	12	12	--	--	6

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Mar 2014

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	36	35	40	56	77	78	89	95	91	93	94	87	91	91	78	68	60	63	62	53	54	56	80	94	72	95	35
2	89	88	86	84	89	88	90	90	84	71	68	66	52	48	45	45	48	56	60	64	69	71	69	74	71	90	45
3	72	70	63	57	67	71	72	68	63	56	47	42	39	40	40	39	39	42	46	52	61	60	63	62	55	72	39
4	64	60	62	63	63	60	58	50	55	50	48	45	42	43	43	42	39	42	46	52	55	62	62	63	53	64	39
5	65	60	58	62	62	55	49	52	38	29	24	23	20	19	19	17	15	15	21	23	22	24	22	21	34	65	15
6	23	26	29	25	30	30	25	20	20	18	18	16	15	14	18	18	18	22	27	33	38	37	38	36	25	38	14
7	31	34	36	38	37	37	44	45	34	29	26	27	27	27	24	26	29	34	38	40	43	49	47	45	35	49	24
8	44	45	44	46	25	20	22	22	20	20	18	17	16	15	14	14	12	12	11	16	19	27	32	33	24	46	11
9	32	35	--	31	38	38	40	39	31	23	21	17	14	13	13	13	12	12	15	19	23	21	23	26	24	40	12
10	24	21	23	23	25	26	29	28	24	20	18	16	16	14	14	13	13	12	16	20	23	26	29	28	21	29	12
11	28	29	29	31	33	36	37	34	28	24	23	22	21	20	21	20	20	23	22	25	29	32	32	33	27	37	20
12	31	30	26	29	25	18	19	16	13	13	14	16	16	15	14	14	15	16	16	17	18	18	18	19	19	31	13
13	19	19	19	20	20	21	21	21	20	19	18	17	17	16	17	17	16	16	17	19	22	23	26	27	19	27	16
14	27	29	33	34	34	32	33	31	28	26	28	25	26	27	28	44	33	29	32	32	37	42	43	45	32	45	25
15	46	49	49	48	48	49	48	48	36	34	30	21	11	8	11	8	6	6	7	7	5	5	6	6	25	49	5
16	8	8	9	9	11	12	13	14	11	11	11	9	8	8	8	9	9	9	11	14	17	17	19	19	11	19	8
17	19	19	17	18	21	22	24	19	16	14	11	10	8	8	8	8	7	8	8	11	10	11	11	15	14	24	7
18	15	16	17	20	22	22	22	21	13	12	11	9	8	9	10	9	7	6	8	8	10	12	11	14	13	22	6
19	14	14	14	13	14	13	14	13	12	8	8	8	9	7	8	8	8	8	9	11	14	15	17	17	12	17	7
20	18	17	19	17	15	14	15	14	12	11	9	9	9	8	10	10	10	9	11	13	15	15	17	18	13	19	8
21	19	20	20	22	23	24	24	21	17	13	12	11	10	9	10	9	9	10	12	14	16	19	19	20	16	24	9
22	20	22	21	23	24	26	24	23	20	17	14	12	11	11	10	10	11	12	14	16	19	21	22	22	18	26	10
23	24	23	24	24	26	25	25	22	22	17	14	14	13	13	11	10	10	11	13	14	15	18	20	20	18	26	10
24	21	22	24	24	24	26	27	23	20	17	13	13	13	12	12	12	12	13	14	16	15	16	18	18	18	27	12
25	16	19	18	14	14	14	19	15	15	12	11	10	10	10	11	11	13	19	18	20	21	22	24	26	16	26	10
26	27	29	29	32	32	30	28	26	23	21	22	24	24	23	23	25	26	25	23	30	31	32	33	35	27	35	21
27	36	40	43	47	52	54	54	49	42	38	37	32	29	27	27	26	26	29	31	33	34	35	37	39	37	54	26
28	39	41	43	42	42	45	44	38	32	27	24	20	19	19	18	17	17	18	19	21	23	25	27	29	29	45	17
29	29	29	28	32	31	30	33	27	23	20	16	12	11	10	8	5	6	7	11	14	16	17	18	20	19	33	5
30	20	19	18	22	22	21	24	24	21	17	14	15	15	15	15	15	16	14	16	17	18	19	22	23	18	24	14
31	23	23	23	24	21	21	19	17	16	14	10	10	9	7	8	8	7	7	9	9	11	12	13	15	14	24	7
Avg	32	32	32	33	34	34	35	33	29	26	24	22	20	20	19	19	18	19	21	24	26	28	30	31	27	--	--
Max	89	88	86	84	89	88	90	95	91	93	94	87	91	91	78	68	60	63	62	64	69	71	80	94	--	95	--
Min	8	8	9	9	11	12	13	13	11	8	8	8	8	7	8	5	6	6	7	7	5	5	6	6	--	--	5

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Jan 2014

Hour of day

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

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Feb 2014

Hour of day

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

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Mar 2014

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	0.008	0.032	0.016	0.453	0.563	0.146	0.153	0.426	0.024	0.024	0.016	0.004	0	0	0	0	0	0	0	0.26	0.3	2.43	0.563	0
2	0.308	0.08	0	0.012	0.028	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.428	0.308	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
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.308	0.08	0	0.02	0.06	0.016	0.453	0.563	0.146	0.153	0.426	0.024	0.024	0.016	0.004	0	0	0	0	0	0	0	0.26	0.3	2.85	--	--
Max	0.308	0.08	0	0.012	0.032	0.016	0.453	0.563	0.146	0.153	0.426	0.024	0.024	0.016	0.004	0	0	0	0	0	0	0	0.26	0.3	--	0.563	--
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

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Jan 2014

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	685	686	686	686	686	685	685	684	684	685	685	685	685	685	685	685	685	685	686	684
2	685	686	686	686	686	686	686	686	686	687	687	686	686	685	685	685	685	684	685	684	684	685	685	684	685	687	684
3	684	684	684	684	684	683	683	684	684	684	684	684	683	682	681	681	681	681	681	681	681	681	682	682	683	684	681
4	682	682	682	682	681	681	681	682	682	683	683	682	682	681	681	681	682	682	682	682	682	683	683	683	682	683	681
5	683	683	683	684	684	684	684	685	686	686	686	686	685	685	684	685	685	685	686	686	686	687	687	687	685	687	683
6	686	686	686	687	687	687	687	687	688	688	688	688	687	687	687	686	686	686	686	686	687	687	686	686	687	688	686
7	685	686	686	686	686	686	685	686	686	686	686	686	685	684	684	684	683	684	683	684	684	684	684	684	685	686	683
8	684	684	684	683	683	683	683	684	684	685	685	685	684	683	683	683	683	683	684	684	684	684	684	684	684	685	683
9	684	684	684	684	684	683	683	683	683	684	684	683	683	682	682	682	682	682	682	682	683	683	683	683	683	684	682
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12	683	683	682	683	682	683	682	683	683	684	684	684	683	683	683	684	684	684	685	685	685	686	686	687	684	687	682
13	687	687	687	688	688	688	688	689	690	690	690	689	689	--	--	688	688	688	689	689	689	689	689	689	688	690	687
14	689	688	689	688	688	688	689	689	689	690	690	689	689	688	688	688	688	689	689	689	689	689	689	689	689	690	688
15	689	689	689	689	689	689	689	689	690	690	690	690	689	688	687	687	687	687	687	687	687	687	687	686	688	690	686
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22	685	684	684	684	683	683	683	683	683	683	683	682	681	681	680	680	680	680	680	680	680	681	681	681	682	685	680
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Avg	685	685	685	685	685	685	685	685	685	686	686	686	685	684	684	684	684	684	684	684	684	685	685	685	685	--	--
Max	689	689	689	689	689	689	689	689	690	690	690	690	690	689	688	688	688	689	689	689	689	689	689	689	--	690	--
Min	679	678	678	678	678	678	678	679	679	679	680	680	679	679	678	678	678	678	678	678	679	678	678	679	--	--	678

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Feb 2014

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	678	678	679	679	678	679	679	679	680	680	680	680	679	679	679	679	679	680	680	680	681	681	681	681	680	681	678
2	682	682	682	682	682	682	683	683	684	684	684	684	683	683	682	682	682	682	682	682	682	681	681	681	682	684	681
3	681	680	680	680	679	679	679	679	680	680	679	679	678	678	678	678	678	678	679	679	679	679	680	680	679	681	678
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5	683	683	683	683	683	683	683	683	683	683	683	683	683	683	682	682	682	682	682	682	683	683	683	683	683	683	682
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9	687	686	686	686	686	686	686	686	686	686	686	685	685	684	684	684	684	684	684	684	684	684	684	684	685	687	684
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12	684	684	684	684	685	685	685	685	686	686	686	686	685	684	684	684	684	684	684	684	684	685	684	684	685	686	684
13	684	684	684	684	684	684	684	685	685	686	686	685	684	684	683	683	683	683	683	683	683	683	683	684	684	686	683
14	684	684	684	683	684	684	684	684	685	685	685	685	685	684	684	684	683	683	684	684	684	684	684	684	684	685	683
15	684	684	684	683	683	683	684	684	684	685	685	685	684	684	684	683	683	683	683	684	684	683	684	684	684	685	683
16	683	683	683	683	683	683	683	683	684	684	685	684	684	683	683	683	683	683	684	684	684	684	685	685	684	685	683
17	684	684	684	684	684	684	684	685	685	685	685	685	684	683	683	682	682	682	683	683	683	683	683	683	684	685	682
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19	681	681	681	681	680	680	680	680	681	681	681	681	680	680	679	679	679	679	679	679	680	680	680	680	680	681	679
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24	683	683	683	682	682	683	683	683	683	684	684	683	683	682	682	681	682	682	682	682	682	682	682	683	683	684	681
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Avg	683	683	682	682	682	682	683	683	683	684	684	684	683	682	682	682	682	682	682	682	682	682	683	683	683	--	--
Max	687	686	686	686	686	686	686	686	687	688	688	688	687	687	686	686	686	686	686	686	686	686	686	687	--	688	--
Min	678	678	679	679	678	679	679	679	680	680	679	679	678	678	678	678	678	678	678	679	679	679	679	679	--	--	678

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Mar 2014

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	679	679	679	679	679	679	679	680	680	681	681	681	681	680	680	679	679	679	679	679	680	680	681	681	680	681	679
2	682	682	682	683	683	683	684	684	685	686	686	686	685	685	684	684	684	684	685	685	685	685	685	685	684	686	682
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4	682	682	682	682	682	682	682	681	682	682	682	681	681	681	680	680	680	680	681	681	681	682	682	682	681	682	680
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6	684	684	683	683	683	683	684	684	684	684	684	684	683	682	682	682	681	681	681	681	681	681	681	681	682	684	681
7	681	681	680	680	680	680	680	680	681	681	681	681	680	680	679	679	679	679	679	680	680	680	681	681	680	681	679
8	681	681	681	681	682	682	682	683	683	684	684	684	684	684	683	683	683	684	684	685	685	686	686	686	683	686	681
9	687	687	--	687	688	688	688	689	689	688	688	688	687	686	685	685	685	685	685	685	686	686	686	686	687	689	685
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12	682	682	682	682	682	683	683	684	684	684	684	684	684	683	683	682	682	682	682	682	682	682	682	682	683	684	682
13	682	682	682	681	681	682	682	682	682	682	682	681	681	680	680	680	679	679	678	679	679	679	679	679	681	682	678
14	680	680	680	680	680	681	681	682	682	683	683	683	683	683	683	683	683	683	683	683	684	684	684	684	682	684	680
15	684	684	684	684	684	684	684	685	685	686	685	685	685	684	684	683	683	683	683	684	685	686	686	686	684	686	683
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17	685	685	684	683	683	683	683	683	683	682	682	681	680	680	678	677	676	676	675	675	675	676	676	676	680	685	675
18	676	676	676	676	676	676	677	678	678	679	679	679	679	679	678	678	678	679	679	680	680	680	680	681	678	681	676
19	681	681	681	681	682	682	683	684	684	684	684	684	684	684	683	683	683	683	684	684	684	684	684	684	683	684	681
20	684	684	684	684	684	684	684	684	684	684	684	683	683	682	682	681	681	681	680	680	680	681	681	681	682	684	680
21	681	681	680	680	680	680	681	681	682	682	682	682	682	681	681	680	680	680	680	680	680	681	681	681	681	682	680
22	681	681	681	681	681	681	681	682	683	683	683	683	682	682	682	682	681	682	682	682	682	683	683	683	682	683	681
23	683	683	683	683	683	684	684	684	685	685	685	685	684	684	683	683	682	682	683	683	683	683	683	683	684	685	682
24	683	683	683	683	683	683	684	684	684	685	684	684	684	683	682	682	682	682	682	682	683	683	682	682	683	685	682
25	682	682	681	681	681	681	681	681	681	681	681	680	680	679	679	678	678	678	678	678	679	679	679	679	680	682	678
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29	686	685	685	685	685	685	686	686	686	686	686	685	685	684	683	682	682	682	682	682	682	682	682	682	684	686	682
30	682	681	681	681	680	680	680	681	681	681	681	682	681	681	680	680	680	680	680	681	681	681	681	681	681	682	680
31	681	681	681	681	681	682	682	682	683	683	683	683	682	682	681	681	680	680	680	680	680	681	681	681	681	683	680
Avg	682	682	682	682	682	682	683	683	683	683	683	683	683	682	682	681	681	681	681	682	682	682	682	682	682	--	--
Max	687	687	686	687	688	688	689	689	690	690	689	689	688	687	687	686	686	686	686	686	686	686	686	686	--	690	--
Min	676	676	676	676	676	676	677	678	678	679	679	679	679	678	678	677	676	676	675	675	675	676	676	676	--	--	675

-- Indicates Invalid Data

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: Jan 2014

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	7.7	6.6	6.6	5.5	5.4	7.6	8.7	8.7	6.6	4.5	4.5	6.8	6.8	10.2	15.7	16.8	12.3	8.9	4.5	3.3	3.3	4.4	4.4	7.4	16.8	3.3
2	2.2	3.3	3.3	3.3	4.4	3.3	3.3	4.4	6.6	8.9	7.8	8.9	11.2	10.1	12.4	12.4	12.3	17.8	16.6	18.9	13.3	14.4	17.7	18.7	9.8	18.9	2.2
3	15.4	16.5	16.5	16.5	14.3	21.9	16.4	17.5	14.3	1088.0	15.6	14.5	13.5	12.4	12.5	11.4	10.2	19.1	14.6	15.6	18.9	18.8	15.5	15.5	60.2	1088.0	10.2
4	16.6	20.0	17.7	19.8	21.0	15.4	18.7	19.7	17.6	18.8	13.3	13.4	12.3	10.1	10.1	11.2	17.8	15.5	18.8	15.4	15.4	15.4	12.2	8.8	15.6	21.0	8.8
5	10.9	17.4	10.9	9.8	16.2	10.8	11.8	10.7	10.8	9.8	7.7	8.8	6.6	5.6	5.6	5.6	11.1	14.3	17.5	5.4	6.5	9.8	21.7	6.5	10.5	21.7	5.4
6	5.4	5.4	35.8	27.1	4.3	5.4	6.5	7.5	9.7	11.9	14.2	12.1	12.1	8.8	5.5	6.7	6.6	7.7	9.9	7.7	9.9	12.0	9.8	5.5	10.3	35.8	4.3
7	3.3	5.5	5.4	7.6	8.7	5.4	6.5	6.5	7.6	8.7	7.7	11.0	7.8	4.5	6.7	8.9	12.2	12.2	9.9	8.8	7.7	7.7	6.6	8.8	7.7	12.2	3.3
8	9.9	6.6	5.5	6.5	8.7	10.8	12.0	12.0	7.6	4.4	4.4	3.3	6.7	9.0	16.8	11.2	16.7	14.4	14.3	14.2	16.4	15.4	12.0	8.8	10.3	16.8	3.3
9	9.8	8.7	2.2	0.0	4.4	4.4	3.3	3.3	4.4	6.6	6.6	6.7	4.5	5.6	6.7	7.8	10.1	10.0	8.8	6.6	6.6	8.8	6.6	4.4	6.1	10.1	0.0
10	6.6	6.5	8.7	12.0	13.1	13.0	12.0	12.0	9.8	9.9	13.2	13.2	17.7	21.1	18.9	18.9	15.5	23.2	24.2	20.8	18.5	17.5	7.7	11.0	14.4	24.2	6.5
11	9.8	10.9	14.1	8.7	7.6	8.7	7.6	8.7	9.8	8.8	8.9	4.5	3.4	7.9	13.5	13.5	10.1	6.7	7.8	10.0	11.1	12.2	8.9	6.6	9.2	14.1	3.4
12	8.9	8.9	6.6	6.6	7.7	9.9	7.7	6.6	9.9	8.8	7.8	10.0	10.1	9.0	10.1	13.4	14.4	15.5	27.6	18.8	15.5	17.6	9.9	12.1	11.4	27.6	6.6
13	15.3	18.6	15.3	12.0	6.5	7.6	10.8	8.7	7.6	10.9	13.2	8.9	4.4	6.6	10.0	10.0	14.4	12.1	9.9	11.0	10.9	9.8	7.6	5.4	10.3	18.6	4.4
14	5.4	4.3	2.2	1.1	1.1	3.3	7.6	12.0	23.0	18.7	--	--	37.9	14.6	--	--	--	--	1.1	2.2	5.5	5.5	2.2	6.6	8.6	37.9	1.1
15	9.9	8.8	8.7	8.7	7.6	7.6	6.5	4.4	8.8	12.1	11.1	11.1	17.9	7.9	10.2	18.1	18.0	16.8	15.6	16.7	7.8	5.5	3.3	2.2	10.2	18.1	2.2
16	0.0	1.1	5.5	5.5	4.4	6.6	8.9	12.2	17.7	2.2	6.7	21.3	7.9	11.3	10.2	6.8	9.1	72.2	51.7	28.0	61.6	45.8	19.0	17.8	18.1	72.2	0.0
17	37.9	16.7	12.2	4.4	2.2	7.8	21.0	16.5	14.3	10.0	11.1	15.6	13.5	10.1	6.8	10.2	11.3	11.2	8.9	4.5	6.7	5.5	3.3	4.4	11.1	37.9	2.2
18	4.4	3.3	3.3	2.2	2.2	2.2	2.2	6.6	7.7	7.8	6.7	5.6	11.3	10.2	5.7	11.4	18.1	5.6	6.7	5.6	3.3	3.3	1.1	2.2	5.8	18.1	1.1
19	6.7	8.9	7.8	6.6	7.7	8.8	8.8	9.9	12.1	11.1	11.1	11.2	11.3	10.2	10.2	10.2	30.4	10.1	10.1	7.8	5.6	3.3	3.3	3.3	9.4	30.4	3.3
20	2.2	4.4	7.7	8.8	6.6	7.6	8.7	6.5	4.4	23.3	7.8	9.0	7.9	11.3	11.3	11.3	14.7	25.8	22.3	18.9	18.8	6.6	28.8	6.6	11.7	28.8	2.2
21	100.0	10.0	5.5	3.3	7.7	11.0	33.0	50.5	183.0	154.0	72.2	81.4	61.6	59.7	47.5	38.5	27.1	33.6	26.8	19.0	25.6	30.0	30.0	27.8	47.4	183.0	3.3
22	29.0	27.8	24.5	21.1	20.0	25.5	23.3	25.5	25.6	30.1	29.3	115.0	22.8	24.0	26.2	22.8	27.3	30.5	32.7	32.6	31.3	29.0	31.1	34.4	30.9	115.0	20.0
23	31.1	26.6	31.0	27.6	21.0	12.1	20.9	24.1	25.2	24.5	19.1	22.5	38.3	9.0	24.9	21.5	9.0	12.3	13.4	10.0	7.8	88.6	101.0	98.7	30.0	101.0	7.8
24	108.0	116.0	105.0	76.8	103.0	69.0	57.0	65.5	71.0	87.4	109.0	59.7	53.5	49.3	46.2	36.3	36.3	30.8	29.6	29.5	26.3	28.4	28.4	31.7	60.6	116.0	26.3
25	29.6	39.5	31.8	31.8	20.8	21.9	25.2	24.0	22.9	24.3	26.7	25.7	23.6	24.7	31.5	32.6	27.0	32.5	34.7	36.8	38.9	42.3	35.6	30.0	29.8	42.3	20.8
26	33.2	35.4	33.2	25.3	29.7	21.0	13.2	16.5	17.7	24.4	23.4	24.6	22.4	25.9	23.6	24.7	16.9	20.2	22.3	21.2	15.6	21.1	55.3	17.7	24.4	55.3	13.2
27	17.7	17.6	16.6	16.6	15.5	14.4	10.0	22.1	22.1	20.0	19.0	11.2	10.1	7.9	9.0	9.0	12.4	15.7	19.0	17.8	20.0	24.4	16.7	18.9	16.0	24.4	7.9
28	13.3	12.1	11.0	9.9	8.8	6.6	5.5	7.6	9.9	11.1	14.5	13.5	10.1	7.9	10.1	11.3	16.9	22.4	21.2	17.8	17.7	11.1	7.8	3.3	11.7	22.4	3.3
29	2.2	2.2	2.2	2.2	3.3	2.2	4.4	6.6	6.6	4.5	10.0	16.9	13.5	9.0	7.9	11.3	13.6	12.4	14.6	19.0	17.8	8.9	6.7	4.5	8.4	19.0	2.2
30	1.1	1.1	3.3	3.3	2.2	0.0	4.4	6.7	7.8	10.0	13.5	13.6	10.2	6.8	4.6	5.7	19.4	21.6	22.8	11.4	19.3	18.2	12.5	18.1	9.9	22.8	0.0
31	14.7	13.6	10.2	7.9	10.1	13.5	21.3	22.4	13.4	12.3	8.9	--	--	21.3	32.5	56.0	35.8	54.6	49.0	33.3	23.3	17.8	18.9	22.1	23.3	56.0	7.9
Avg	18.4	15.7	15.2	12.9	12.8	11.7	13.1	15.0	19.9	54.5	17.5	19.9	16.4	14.1	15.2	16.1	17.0	20.3	19.1	15.8	16.4	18.0	17.6	15.1	17.8	--	--
Max	108.0	116.0	105.0	76.8	103.0	69.0	57.0	65.5	183.0	1088.0	109.0	115.0	61.6	59.7	47.5	56.0	36.3	72.2	51.7	36.8	61.6	88.6	101.0	98.7	--	1088.0	--
Min	0.0	1.1	2.2	0.0	1.1	0.0	2.2	3.3	4.4	2.2	4.4	3.3	3.4	4.5	4.6	5.6	6.6	5.6	1.1	2.2	3.3	3.3	1.1	2.2	--	--	0.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

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

Month: Feb 2014

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	12.2	14.4	16.6	17.6	22.0	31.8	30.7	27.4	31.8	29.8	33.1	31.0	29.8	26.6	19.9	16.6	23.2	17.7	7.7	9.9	12.1	9.9	7.7	9.8	20.4	33.1	7.7
2	8.7	8.7	5.4	2.2	4.3	3.2	5.4	4.3	2.2	2.2	5.5	9.9	9.9	11.0	14.3	13.2	9.9	7.7	8.8	12.1	12.1	11.0	9.8	8.8	7.9	14.3	2.2
3	6.6	6.6	5.5	5.5	6.6	5.5	5.5	6.5	6.6	8.8	11.1	11.1	10.0	12.2	14.4	12.1	11.0	17.6	9.9	29.5	21.8	12.0	9.8	6.5	10.5	29.5	5.5
4	7.6	7.6	7.6	8.6	7.5	8.6	10.7	8.6	9.7	11.9	12.0	9.8	10.9	13.1	12.0	17.5	15.4	13.1	13.1	14.1	13.0	14.1	11.9	10.8	11.2	17.5	7.5
5	10.8	10.8	11.9	10.9	10.9	22.8	19.6	18.5	15.2	12.0	7.7	11.0	9.8	5.5	3.3	3.3	3.3	6.6	7.7	4.4	6.5	10.8	8.7	6.5	9.9	22.8	3.3
6	8.6	9.7	6.5	1.1	0.0	4.3	10.8	11.9	8.7	6.5	9.8	9.9	4.4	8.8	12.1	17.6	8.8	9.9	13.2	12.1	6.6	7.7	9.9	17.5	9.0	17.6	0.0
7	16.4	17.5	8.7	10.9	9.8	7.6	8.7	18.5	9.8	9.8	13.1	16.4	17.6	8.8	12.2	13.3	10.0	8.8	6.6	6.6	8.8	8.7	6.5	6.5	10.9	18.5	6.5
8	6.5	8.7	7.6	6.5	6.5	3.3	4.3	6.5	6.5	6.6	6.6	6.6	6.7	6.7	6.7	6.7	6.7	11.1	14.4	12.1	8.8	9.9	9.9	8.8	7.7	14.4	3.3
9	12.1	9.9	5.5	3.3	3.3	5.5	6.6	5.5	3.3	--	--	--	--	6.8	7.9	7.9	9.0	10.1	11.2	12.3	13.4	11.1	8.9	11.1	8.2	13.4	3.3
10	6.7	5.5	3.3	4.4	7.7	6.6	6.6	7.7	10.0	13.4	12.4	12.4	12.4	9.1	8.0	8.0	12.5	13.6	20.3	20.2	19.1	25.8	21.2	16.7	11.8	25.8	3.3
11	18.9	18.8	18.8	13.3	12.2	31.1	31.0	11.1	10.0	8.9	9.0	2.3	1.1	3.4	4.5	9.1	12.4	12.4	10.1	10.1	7.8	7.8	7.8	8.9	11.7	31.1	1.1
12	11.0	8.8	4.4	4.4	5.5	4.4	5.5	8.8	17.7	18.9	12.3	9.0	10.2	9.1	6.8	9.1	11.3	10.2	7.9	10.1	9.0	9.0	11.2	8.9	9.3	18.9	4.4
13	6.7	6.7	6.7	3.3	5.6	7.8	5.5	4.4	6.7	6.8	6.8	9.1	10.3	18.3	--	10.3	11.4	10.3	19.3	34.0	18.0	13.5	12.3	10.1	10.6	34.0	3.3
14	6.7	4.5	5.6	4.5	2.2	3.3	4.4	3.3	3.4	6.8	11.4	12.6	12.6	12.6	13.8	20.7	14.9	16.0	22.8	30.7	22.7	15.8	13.5	10.2	11.5	30.7	2.2
15	5.6	3.4	4.5	2.2	1.1	2.2	2.2	2.2	4.5	9.1	11.4	11.5	9.2	8.1	11.6	10.4	6.9	6.9	18.3	15.9	13.6	8.0	3.4	4.5	7.4	18.3	1.1
16	6.8	7.9	6.8	6.8	7.9	6.7	6.7	7.8	6.8	9.1	11.4	10.3	9.2	9.2	11.5	12.6	12.6	19.4	12.5	12.5	11.3	11.3	7.9	4.5	9.6	19.4	4.5
17	6.7	6.7	4.5	6.7	10.0	11.1	12.2	10.0	8.9	9.1	12.5	13.7	9.2	6.9	3.5	5.8	8.1	9.2	10.3	9.1	12.4	13.6	11.3	9.1	9.2	13.7	3.5
18	7.9	6.8	10.2	10.1	7.8	5.6	4.5	5.6	16.8	10.2	8.0	22.9	12.6	11.5	12.7	12.7	13.8	16.0	16.0	13.7	11.3	10.2	9.1	9.1	11.0	22.9	4.5
19	6.8	7.9	9.0	4.5	7.9	14.6	10.1	6.7	12.3	14.7	23.8	15.9	12.5	10.3	17.1	20.6	26.3	12.5	29.5	28.3	27.1	16.9	18.0	11.3	15.2	29.5	4.5
20	12.4	12.3	13.5	14.6	19.0	65.9	102.0	21.1	23.3	18.8	11.1	11.2	20.2	7.9	9.0	6.8	3.4	6.8	11.2	11.2	10.0	8.9	6.6	4.4	18.0	102.0	3.4
21	5.5	6.6	4.4	3.3	4.4	5.5	5.5	7.7	8.8	10.0	22.4	7.9	9.0	9.1	7.9	8.0	10.2	11.3	11.3	18.0	15.7	18.0	16.8	16.8	10.2	22.4	3.3
22	17.9	13.4	11.1	10.0	8.9	7.8	10.0	14.3	20.0	12.4	18.1	15.9	15.9	16.0	14.9	13.7	13.7	13.6	19.2	13.5	13.5	19.0	14.5	13.4	14.2	20.0	7.8
23	13.4	13.4	14.5	14.4	12.2	13.4	14.4	13.3	20.0	21.4	19.3	26.2	17.1	20.5	16.0	14.8	13.7	12.5	13.6	19.2	12.4	11.2	11.2	12.3	15.4	26.2	11.2
24	9.0	6.7	7.8	8.9	10.0	10.0	11.0	12.2	13.4	24.8	33.0	12.6	12.6	12.6	11.5	10.3	19.4	13.7	19.3	11.4	12.4	18.0	15.8	15.8	13.8	33.0	6.7
25	14.7	16.9	13.5	17.9	15.7	14.5	16.7	15.7	13.4	21.3	27.1	18.2	23.8	20.4	28.4	28.4	29.4	24.8	30.4	38.2	31.5	25.8	22.4	22.4	22.1	38.2	13.4
26	29.1	26.8	25.6	23.3	27.8	34.4	26.5	23.2	19.0	24.7	21.4	20.4	26.1	22.8	20.5	16.0	14.8	14.8	19.3	19.2	21.5	19.2	20.3	16.9	22.2	34.4	14.8
27	18.0	19.1	21.3	16.8	16.7	13.3	21.0	23.2	13.4	11.2	10.1	13.5	12.5	18.1	--	35.1	30.7	40.8	32.8	24.8	13.5	12.4	13.5	16.8	19.5	40.8	10.1
28	15.7	12.3	11.2	12.2	12.2	12.2	12.2	14.4	15.6	13.5	11.3	11.4	10.3	8.0	5.7	9.1	25.1	28.6	54.8	53.6	31.9	88.6	72.5	11.3	23.1	88.6	5.7
Avg	11.0	10.7	9.7	8.9	9.5	13.0	14.6	11.4	12.1	13.1	14.5	13.4	12.8	11.9	11.8	13.2	13.9	14.1	16.8	18.1	14.9	16.0	14.0	11.1	12.9	--	--
Max	29.1	26.8	25.6	23.3	27.8	65.9	102.0	27.4	31.8	29.8	33.1	31.0	29.8	26.6	28.4	35.1	30.7	40.8	54.8	53.6	31.9	88.6	72.5	22.4	--	102.0	--
Min	5.5	3.4	3.3	1.1	0.0	2.2	2.2	2.2	2.2	2.2	5.5	2.3	1.1	3.4	3.3	3.3	3.3	6.6	6.6	4.4	6.5	7.7	3.4	4.4	--	--	0.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

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

Month: Mar 2014

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	10.2	9.1	10.2	140.0	7.8	31.3	7.8	4.5	4.4	6.7	4.4	2.2	-3.3	-3.3	1.1	3.4	2.2	2.2	2.2	2.2	1.1	-2.2	-1.1	1.1	10.2	140.0	-3.3
2	0.0	-2.2	1.1	2.2	1.1	1.1	2.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4	3.3	2.2	5.6	7.7	5.5	5.5	6.6	6.6	3.3	3.3	3.6	7.7	-2.2
3	6.6	4.4	2.2	2.2	4.4	6.6	5.5	6.6	9.9	6.7	3.4	7.9	9.0	5.6	3.4	4.5	4.5	6.8	6.7	6.7	6.7	7.8	7.8	5.6	5.9	9.9	2.2
4	2.2	3.3	4.4	3.3	4.4	4.4	3.3	4.4	5.6	5.6	3.4	6.7	7.9	7.9	18.1	12.4	11.3	9.0	9.0	13.5	14.5	16.7	12.3	17.8	8.4	18.1	2.2
5	17.7	11.1	11.0	9.9	7.7	5.5	4.4	5.5	5.6	5.6	1.1	1.1	4.5	6.8	11.4	8.0	4.6	4.6	2.3	2.2	3.4	4.5	4.5	4.5	6.1	17.7	1.1
6	4.5	0.0	-2.2	0.0	3.3	4.4	6.6	4.5	5.6	7.9	9.1	9.1	4.6	3.4	8.0	8.0	6.9	8.0	6.8	7.9	12.4	11.2	5.6	2.3	5.7	12.4	-2.2
7	1.1	2.3	3.4	4.5	2.2	3.4	6.7	8.9	10.1	23.7	9.1	7.9	8.0	10.2	9.1	19.4	13.7	21.6	23.8	24.9	27.1	18.0	22.4	19.0	12.5	27.1	1.1
8	20.1	17.7	14.4	11.1	11.1	11.1	34.4	10.0	6.7	3.4	3.4	4.5	4.5	-1.1	0.0	4.5	3.4	4.5	3.4	4.5	6.7	10.0	13.3	11.0	8.9	34.4	-1.1
9	5.5	--	--	4.4	6.5	6.5	6.5	9.8	58.1	12.2	6.7	3.4	3.4	4.5	3.4	2.3	4.5	3.4	3.4	6.7	5.6	4.5	3.3	6.6	7.8	58.1	2.3
10	4.4	3.3	5.5	4.4	4.4	4.4	4.4	5.5	8.9	59.3	7.9	4.5	5.7	6.8	3.4	18.2	4.6	9.1	11.3	10.2	10.1	10.1	9.0	8.9	9.4	59.3	3.3
11	10.0	5.6	8.9	9.0	7.8	10.0	12.3	12.3	12.3	7.8	9.0	10.2	9.1	11.4	11.4	19.4	15.9	19.3	17.0	21.4	14.6	18.0	17.9	24.6	13.1	24.6	5.6
12	17.8	24.4	10.0	10.0	8.9	6.6	6.6	7.7	10.0	12.3	21.4	15.8	35.2	66.1	59.4	69.6	87.9	140.0	139.0	160.0	142.0	149.0	158.0	141.0	62.5	160.0	6.6
13	134.0	137.0	125.0	116.0	88.4	79.5	78.3	78.6	101.0	87.4	102.0	115.0	121.0	99.8	74.6	75.4	44.5	44.5	39.8	56.6	43.0	38.3	36.1	42.9	81.6	137.0	36.1
14	51.9	73.1	69.5	61.3	58.9	57.6	60.8	46.5	61.3	20.1	14.5	18.0	18.0	21.4	29.3	21.1	1.1	6.7	17.9	13.3	7.7	3.3	4.4	4.4	30.9	73.1	1.1
15	7.7	11.0	10.0	10.0	12.2	13.2	18.8	15.5	13.4	13.4	15.7	24.9	7.9	9.1	20.5	6.8	9.1	10.3	9.1	10.2	60.8	52.7	74.8	66.7	21.0	74.8	6.8
16	58.7	109.0	100.0	120.0	9.9	11.0	7.7	2.2	2.2	7.7	7.8	6.7	5.6	2.3	5.7	4.5	1.1	4.5	22.5	9.0	8.9	11.2	12.3	7.8	22.5	120.0	1.1
17	4.5	4.5	8.9	12.2	8.9	5.5	5.5	7.7	8.9	7.9	5.7	6.8	6.9	9.2	18.4	13.8	17.3	22.0	21.9	20.7	22.9	22.9	21.7	16.0	12.5	22.9	4.5
18	14.8	13.6	23.8	22.6	29.3	28.0	32.4	29.1	40.5	52.9	47.5	43.2	20.5	26.3	33.2	30.9	29.7	18.2	26.1	21.5	21.4	19.1	18.0	19.0	27.6	52.9	13.6
19	17.8	16.6	15.5	13.3	13.2	13.1	13.1	12.1	18.9	15.7	15.8	20.4	25.0	25.1	22.8	19.4	19.4	25.0	65.7	70.0	69.4	23.4	20.0	17.8	24.5	70.0	12.1
20	10.0	13.3	14.4	13.3	12.2	19.7	15.4	15.5	15.7	17.0	15.9	18.3	20.6	18.4	23.0	27.5	13.8	19.5	18.3	13.7	18.1	17.0	14.7	12.4	16.6	27.5	10.0
21	10.1	12.4	14.6	15.7	14.5	14.5	14.5	17.8	20.2	17.0	19.3	19.3	20.5	18.3	14.9	19.5	20.6	14.9	21.7	23.8	19.1	15.7	15.7	15.7	17.1	23.8	10.1
22	15.6	13.4	17.9	21.3	15.6	15.5	14.4	16.7	15.7	14.6	7.9	2.3	3.4	5.7	6.9	6.9	8.0	10.3	11.3	17.0	19.1	12.4	13.4	11.1	12.3	21.3	2.3
23	6.7	9.0	10.0	10.0	10.0	12.2	14.3	13.3	13.5	15.8	14.8	12.5	9.1	9.2	11.5	12.6	11.4	9.1	11.4	13.6	12.5	10.1	10.1	11.2	11.4	15.8	6.7
24	9.0	7.8	7.8	7.8	12.3	11.2	12.2	13.4	11.3	39.8	12.5	12.5	11.5	9.2	12.7	23.1	19.5	12.6	19.5	16.0	13.6	12.4	14.6	14.6	14.0	39.8	7.8
25	13.5	12.3	12.3	10.1	8.9	10.1	11.2	9.0	10.2	12.6	10.4	8.1	11.6	13.9	9.3	8.1	9.2	57.0	13.7	18.2	7.9	11.3	14.7	15.8	13.3	57.0	7.9
26	11.2	6.7	3.4	4.5	9.0	9.0	10.1	9.0	11.3	11.3	10.2	20.5	29.6	33.1	30.9	46.9	43.4	93.6	63.7	113.0	117.0	103.0	73.9	72.6	39.1	117.0	3.4
27	83.6	81.2	76.5	90.7	114.0	92.4	67.0	82.6	63.0	56.5	57.9	44.7	37.0	27.0	31.5	33.8	37.1	39.3	36.9	23.4	20.0	20.0	18.9	17.7	52.2	114.0	17.7
28	16.5	19.9	34.3	32.1	32.0	32.9	28.4	28.6	36.5	35.6	25.6	--	--	21.4	27.1	23.8	20.4	33.9	28.1	25.8	33.5	31.3	32.3	26.7	28.5	36.5	16.5
29	26.6	22.1	22.0	18.7	19.9	20.9	19.8	22.1	11.2	13.6	14.7	14.8	14.9	16.1	16.1	16.2	12.7	12.7	21.8	30.8	23.9	26.1	23.7	26.0	19.5	30.8	11.2
30	20.3	16.9	19.2	23.6	22.5	20.2	14.6	19.1	42.9	23.9	22.7	23.8	18.2	22.9	24.0	38.9	32.0	46.8	37.5	40.7	46.2	36.0	35.9	39.3	28.7	46.8	14.6
31	37.0	41.4	44.7	39.9	40.9	39.6	29.7	35.5	43.7	44.0	44.1	37.4	31.9	25.1	32.0	35.5	37.8	26.3	18.3	20.5	14.8	15.9	14.7	14.7	31.9	44.7	14.7
Avg	21.0	23.3	23.3	27.2	19.4	19.4	18.4	18.0	22.0	21.4	17.7	17.6	16.9	17.3	18.6	20.5	17.8	24.0	23.7	26.6	26.8	23.7	23.4	22.5	21.3	--	--
Max	134.0	137.0	125.0	140.0	114.0	92.4	78.3	82.6	101.0	87.4	102.0	115.0	121.0	99.8	74.6	75.4	87.9	140.0	139.0	160.0	142.0	149.0	158.0	141.0	--	160.0	--
Min	0.0	-2.2	-2.2	0.0	1.1	1.1	2.2	2.2	2.2	3.4	1.1	1.1	-3.3	-3.3	0.0	2.2	1.1	2.2	2.2	2.2	1.1	-2.2	-1.1	1.1	--	--	-3.3

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

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

Month: Jan 2014

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	3.0	3.0	4.0	2.0	2.0	4.0	5.0	6.0	5.0	6.0	6.0	4.0	2.0	2.0	5.0	5.0	5.0	4.0	2.0	3.0	3.0	2.0	0.0	3.5	6.0	0.0
2	2.0	1.0	0.0	2.0	3.0	3.0	3.0	4.0	5.0	2.0	2.0	0.0	1.0	4.0	2.0	0.0	2.0	2.0	3.0	4.0	5.0	5.0	5.0	5.0	2.7	5.0	0.0
3	3.0	2.0	4.0	4.0	2.0	4.0	4.0	5.0	5.0	--	5.0	4.0	4.0	3.0	3.0	3.0	4.0	6.0	6.0	5.0	5.0	7.0	5.0	5.0	4.3	7.0	2.0
4	6.0	6.0	8.0	7.0	5.0	5.0	5.0	6.0	8.0	6.0	5.0	6.0	4.0	4.0	4.0	4.0	5.0	6.0	5.0	5.0	5.0	4.0	6.0	5.0	5.4	8.0	4.0
5	3.0	3.0	2.0	1.0	1.0	1.0	2.0	4.0	3.0	1.0	-1.0	2.0	3.0	1.0	3.0	5.0	5.0	5.0	5.0	3.0	3.0	2.0	2.0	4.0	2.6	5.0	-1.0
6	4.0	1.0	4.0	7.0	5.0	0.0	0.0	1.0	2.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	1.0	2.0	3.0	1.0	1.0	2.0	1.0	1.0	2.2	7.0	0.0
7	2.0	2.0	1.0	1.0	0.0	1.0	2.0	4.0	3.0	2.0	3.0	2.0	0.0	2.0	3.0	2.0	2.0	2.0	2.0	5.0	2.0	-1.0	0.0	1.0	1.8	5.0	-1.0
8	1.0	2.0	2.0	3.0	4.0	4.0	4.0	6.0	6.0	4.0	4.0	3.0	2.0	3.0	4.0	4.0	2.0	4.0	6.0	7.0	7.0	6.0	4.0	3.0	4.0	7.0	1.0
9	4.0	4.0	4.0	2.0	1.0	1.0	0.0	0.0	1.0	3.0	5.0	4.0	2.0	0.0	0.0	1.0	2.0	4.0	3.0	3.0	2.0	3.0	6.0	4.0	2.5	6.0	0.0
10	2.0	3.0	4.0	5.0	7.0	6.0	3.0	3.0	6.0	7.0	6.0	7.0	8.0	8.0	8.0	8.0	10.0	12.0	12.0	12.0	11.0	11.0	9.0	7.0	7.3	12.0	2.0
11	7.0	7.0	6.0	3.0	6.0	8.0	8.0	7.0	7.0	5.0	6.0	6.0	4.0	5.0	5.0	4.0	3.0	2.0	2.0	4.0	4.0	3.0	2.0	2.0	4.8	8.0	2.0
12	3.0	1.0	1.0	3.0	5.0	5.0	4.0	5.0	5.0	5.0	6.0	6.0	5.0	6.0	5.0	6.0	5.0	5.0	8.0	8.0	7.0	8.0	7.0	5.0	5.2	8.0	1.0
13	5.0	5.0	3.0	4.0	4.0	3.0	3.0	3.0	1.0	0.0	1.0	3.0	3.0	5.0	6.0	3.0	4.0	5.0	5.0	6.0	4.0	0.0	2.0	3.0	3.4	6.0	0.0
14	3.0	2.0	3.0	5.0	3.0	3.0	6.0	6.0	5.0	6.0	10.0	9.0	5.0	3.0	--	--	--	--	2.0	4.0	1.0	-1.0	1.0	2.0	3.9	10.0	-1.0
15	4.0	4.0	3.0	3.0	2.0	1.0	3.0	3.0	4.0	3.0	1.0	-1.0	1.0	2.0	2.0	5.0	5.0	4.0	5.0	7.0	6.0	4.0	2.0	1.0	3.1	7.0	-1.0
16	2.0	4.0	3.0	3.0	3.0	1.0	3.0	4.0	3.0	2.0	1.0	3.0	3.0	1.0	2.0	3.0	2.0	3.0	4.0	3.0	4.0	4.0	4.0	5.0	2.9	5.0	1.0
17	5.0	5.0	5.0	4.0	2.0	3.0	4.0	4.0	2.0	2.0	3.0	3.0	3.0	4.0	3.0	1.0	2.0	4.0	4.0	5.0	5.0	4.0	1.0	1.0	3.3	5.0	1.0
18	2.0	-1.0	0.0	3.0	2.0	4.0	4.0	3.0	4.0	4.0	4.0	4.0	1.0	1.0	1.0	2.0	3.0	4.0	3.0	0.0	0.0	1.0	2.0	1.0	2.2	4.0	-1.0
19	2.0	3.0	4.0	4.0	5.0	4.0	3.0	5.0	2.0	3.0	6.0	3.0	2.0	2.0	2.0	1.0	2.0	3.0	2.0	2.0	3.0	3.0	2.0	3.0	3.0	6.0	1.0
20	4.0	3.0	4.0	4.0	6.0	6.0	4.0	3.0	3.0	4.0	3.0	2.0	1.0	2.0	3.0	4.0	3.0	2.0	5.0	7.0	6.0	3.0	5.0	4.0	3.8	7.0	1.0
21	2.0	3.0	4.0	3.0	1.0	2.0	3.0	4.0	9.0	14.0	11.0	7.0	7.0	9.0	8.0	6.0	3.0	3.0	5.0	5.0	3.0	5.0	6.0	6.0	5.4	14.0	1.0
22	5.0	5.0	4.0	4.0	6.0	5.0	2.0	6.0	7.0	5.0	5.0	6.0	5.0	3.0	3.0	4.0	6.0	6.0	6.0	7.0	6.0	8.0	8.0	6.0	5.3	8.0	2.0
23	5.0	7.0	8.0	10.0	10.0	7.0	7.0	10.0	9.0	7.0	6.0	5.0	5.0	6.0	7.0	6.0	6.0	4.0	4.0	4.0	4.0	5.0	7.0	8.0	6.5	10.0	4.0
24	15.0	11.0	11.0	9.0	8.0	10.0	7.0	4.0	7.0	11.0	12.0	8.0	6.0	6.0	6.0	8.0	6.0	6.0	8.0	8.0	6.0	6.0	6.0	6.0	8.0	15.0	4.0
25	6.0	6.0	9.0	8.0	6.0	7.0	7.0	7.0	6.0	5.0	3.0	4.0	6.0	6.0	7.0	8.0	7.0	7.0	9.0	10.0	15.0	9.0	9.0	8.0	7.3	15.0	3.0
26	7.0	7.0	9.0	8.0	6.0	8.0	8.0	6.0	5.0	5.0	6.0	5.0	6.0	6.0	6.0	6.0	4.0	5.0	3.0	5.0	7.0	6.0	7.0	6.0	6.1	9.0	3.0
27	6.0	8.0	9.0	9.0	7.0	5.0	6.0	7.0	9.0	9.0	9.0	5.0	2.0	4.0	3.0	2.0	4.0	6.0	6.0	7.0	7.0	6.0	5.0	5.0	6.1	9.0	2.0
28	5.0	5.0	6.0	5.0	5.0	4.0	2.0	0.0	3.0	5.0	4.0	2.0	1.0	4.0	6.0	5.0	4.0	6.0	8.0	7.0	5.0	5.0	4.0	2.0	4.3	8.0	0.0
29	2.0	2.0	3.0	3.0	-1.0	-1.0	2.0	4.0	3.0	2.0	2.0	1.0	2.0	3.0	2.0	1.0	5.0	4.0	2.0	3.0	3.0	4.0	5.0	4.0	2.5	5.0	-1.0
30	2.0	0.0	2.0	3.0	2.0	2.0	3.0	5.0	6.0	4.0	1.0	2.0	1.0	1.0	2.0	3.0	3.0	2.0	5.0	4.0	1.0	4.0	6.0	4.0	2.8	6.0	0.0
31	2.0	2.0	2.0	2.0	6.0	4.0	1.0	3.0	4.0	6.0	5.0	5.0	--	5.0	6.0	4.0	5.0	6.0	5.0	5.0	3.0	2.0	2.0	4.0	3.9	6.0	1.0
Avg	4.0	3.7	4.2	4.4	4.0	3.8	3.8	4.4	4.8	4.7	4.6	4.0	3.3	3.7	3.9	3.9	4.0	4.5	4.8	5.1	4.7	4.2	4.3	3.9	4.2	--	--
Max	15.0	11.0	11.0	10.0	10.0	10.0	8.0	10.0	9.0	14.0	12.0	9.0	8.0	9.0	8.0	8.0	10.0	12.0	12.0	12.0	15.0	11.0	9.0	8.0	--	15.0	--
Min	1.0	-1.0	0.0	1.0	-1.0	-1.0	0.0	0.0	1.0	0.0	-1.0	-1.0	0.0	0.0	0.0	0.0	1.0	2.0	2.0	0.0	0.0	-1.0	0.0	0.0	--	--	-1.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

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

Month: Feb 2014

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	2.0	5.0	5.0	4.0	4.0	4.0	6.0	6.0	5.0	4.0	4.0	6.0	6.0	6.0	5.0	5.0	6.0	5.0	4.0	4.0	2.0	2.0	3.0	4.4	6.0	2.0
2	4.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	2.0	1.0	1.0	3.0	6.0	6.0	5.0	2.0	1.0	1.0	2.0	3.0	2.0	3.0	3.0	4.0	3.0	6.0	1.0
3	5.0	1.0	1.0	2.0	1.0	2.0	2.0	1.0	3.0	5.0	6.0	6.0	3.0	1.0	2.0	2.0	1.0	2.0	1.0	2.0	6.0	4.0	4.0	4.0	2.8	6.0	1.0
4	2.0	3.0	4.0	3.0	3.0	5.0	3.0	3.0	5.0	6.0	4.0	3.0	5.0	6.0	6.0	6.0	7.0	5.0	1.0	4.0	6.0	5.0	5.0	6.0	4.4	7.0	1.0
5	5.0	4.0	5.0	4.0	5.0	9.0	12.0	11.0	7.0	4.0	4.0	5.0	5.0	3.0	1.0	0.0	1.0	2.0	3.0	3.0	4.0	4.0	4.0	6.0	4.6	12.0	0.0
6	6.0	4.0	4.0	5.0	4.0	3.0	7.0	6.0	4.0	5.0	5.0	5.0	3.0	4.0	6.0	6.0	5.0	3.0	4.0	5.0	4.0	5.0	6.0	7.0	4.8	7.0	3.0
7	6.0	5.0	2.0	2.0	5.0	5.0	4.0	4.0	5.0	4.0	5.0	5.0	5.0	6.0	5.0	3.0	5.0	6.0	5.0	4.0	4.0	5.0	5.0	4.0	4.5	6.0	2.0
8	3.0	2.0	3.0	4.0	4.0	4.0	3.0	2.0	3.0	6.0	7.0	3.0	2.0	-1.0	0.0	1.0	4.0	4.0	3.0	3.0	5.0	6.0	4.0	3.0	3.3	7.0	-1.0
9	6.0	4.0	4.0	3.0	2.0	4.0	3.0	2.0	2.0	--	--	--	--	6.0	5.0	4.0	6.0	5.0	4.0	3.0	3.0	5.0	6.0	6.0	4.2	6.0	2.0
10	5.0	4.0	2.0	-1.0	0.0	4.0	4.0	2.0	3.0	3.0	4.0	3.0	2.0	2.0	2.0	2.0	3.0	4.0	5.0	6.0	6.0	6.0	7.0	8.0	3.6	8.0	-1.0
11	6.0	6.0	9.0	6.0	1.0	2.0	1.0	1.0	3.0	2.0	3.0	2.0	-1.0	-1.0	2.0	2.0	3.0	3.0	2.0	1.0	4.0	7.0	6.0	2.0	3.0	9.0	-1.0
12	2.0	4.0	3.0	3.0	5.0	3.0	2.0	4.0	5.0	3.0	2.0	2.0	4.0	0.0	0.0	3.0	2.0	2.0	2.0	2.0	3.0	2.0	4.0	6.0	2.8	6.0	0.0
13	4.0	3.0	3.0	2.0	1.0	4.0	5.0	0.0	0.0	2.0	2.0	1.0	3.0	4.0	--	2.0	1.0	2.0	4.0	6.0	6.0	4.0	4.0	5.0	3.0	6.0	0.0
14	4.0	3.0	4.0	3.0	2.0	2.0	2.0	3.0	4.0	3.0	4.0	3.0	4.0	6.0	7.0	7.0	7.0	6.0	7.0	8.0	8.0	5.0	3.0	4.0	4.5	8.0	2.0
15	4.0	2.0	4.0	4.0	3.0	2.0	3.0	3.0	3.0	5.0	5.0	4.0	4.0	4.0	3.0	4.0	5.0	4.0	5.0	6.0	5.0	3.0	3.0	6.0	3.9	6.0	2.0
16	5.0	5.0	5.0	4.0	3.0	5.0	5.0	4.0	6.0	7.0	6.0	6.0	4.0	4.0	6.0	5.0	5.0	6.0	5.0	3.0	2.0	6.0	6.0	4.0	4.9	7.0	2.0
17	4.0	4.0	3.0	2.0	2.0	3.0	3.0	5.0	4.0	3.0	5.0	4.0	2.0	2.0	2.0	1.0	2.0	4.0	4.0	4.0	5.0	4.0	2.0	2.0	3.2	5.0	1.0
18	4.0	3.0	3.0	5.0	5.0	5.0	6.0	6.0	5.0	4.0	3.0	6.0	7.0	6.0	7.0	5.0	4.0	5.0	4.0	4.0	5.0	5.0	6.0	5.0	4.9	7.0	3.0
19	3.0	6.0	6.0	4.0	4.0	6.0	7.0	6.0	4.0	8.0	9.0	5.0	6.0	7.0	6.0	8.0	7.0	6.0	5.0	6.0	8.0	8.0	6.0	7.0	6.2	9.0	3.0
20	7.0	6.0	7.0	6.0	6.0	9.0	9.0	6.0	6.0	7.0	5.0	3.0	2.0	2.0	5.0	5.0	3.0	5.0	6.0	6.0	3.0	2.0	4.0	4.0	5.2	9.0	2.0
21	5.0	7.0	6.0	5.0	6.0	4.0	4.0	5.0	5.0	4.0	6.0	5.0	1.0	1.0	4.0	4.0	3.0	6.0	8.0	6.0	6.0	5.0	4.0	3.0	4.7	8.0	1.0
22	4.0	6.0	6.0	5.0	6.0	7.0	6.0	6.0	6.0	6.0	7.0	7.0	6.0	6.0	6.0	5.0	4.0	6.0	8.0	7.0	6.0	6.0	7.0	5.0	6.0	8.0	4.0
23	5.0	6.0	6.0	7.0	6.0	7.0	9.0	7.0	7.0	7.0	7.0	7.0	6.0	4.0	5.0	6.0	6.0	4.0	6.0	8.0	6.0	6.0	7.0	6.0	6.3	9.0	4.0
24	6.0	6.0	5.0	3.0	7.0	8.0	6.0	7.0	7.0	6.0	8.0	7.0	5.0	6.0	7.0	6.0	8.0	8.0	6.0	6.0	4.0	4.0	4.0	6.0	6.1	8.0	3.0
25	6.0	7.0	6.0	5.0	6.0	6.0	5.0	6.0	9.0	8.0	7.0	8.0	8.0	7.0	6.0	7.0	8.0	8.0	9.0	9.0	9.0	11.0	9.0	7.0	7.4	11.0	5.0
26	8.0	9.0	9.0	10.0	11.0	13.0	13.0	11.0	10.0	9.0	9.0	8.0	9.0	10.0	8.0	7.0	6.0	5.0	6.0	8.0	8.0	6.0	5.0	5.0	8.5	13.0	5.0
27	5.0	7.0	8.0	10.0	10.0	7.0	7.0	8.0	7.0	4.0	3.0	4.0	4.0	3.0	--	6.0	9.0	6.0	4.0	4.0	5.0	5.0	5.0	5.0	5.9	10.0	3.0
28	4.0	6.0	7.0	4.0	4.0	5.0	5.0	5.0	6.0	3.0	3.0	3.0	4.0	3.0	3.0	6.0	2.0	3.0	5.0	6.0	4.0	3.0	7.0	6.0	4.5	7.0	2.0
Avg	4.7	4.6	4.8	4.3	4.3	5.0	5.1	4.8	4.9	4.8	5.0	4.5	4.3	4.0	4.4	4.3	4.4	4.5	4.6	4.9	5.0	4.9	4.9	5.0	4.7	--	--
Max	8.0	9.0	9.0	10.0	11.0	13.0	13.0	11.0	10.0	9.0	9.0	8.0	9.0	10.0	8.0	8.0	9.0	8.0	9.0	9.0	9.0	11.0	9.0	8.0	--	13.0	--
Min	2.0	1.0	1.0	-1.0	0.0	2.0	1.0	0.0	0.0	1.0	1.0	1.0	-1.0	-1.0	0.0	0.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	--	--	-1.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

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

Month: Mar 2014

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	4.0	6.0	9.0	6.0	5.0	4.0	3.0	5.0	7.0	5.0	2.0	3.0	4.0	3.0	4.0	7.0	5.0	4.0	4.0	4.0	6.0	6.0	4.0	4.8	9.0	2.0
2	5.0	5.0	5.0	4.0	4.0	5.0	6.0	6.0	6.0	4.0	3.0	4.0	4.0	1.0	3.0	3.0	4.0	6.0	4.0	4.0	5.0	5.0	4.0	6.0	4.4	6.0	1.0
3	7.0	7.0	5.0	4.0	4.0	4.0	5.0	6.0	5.0	4.0	4.0	5.0	5.0	4.0	6.0	6.0	6.0	4.0	5.0	7.0	6.0	6.0	5.0	6.0	5.3	7.0	4.0
4	7.0	6.0	5.0	6.0	6.0	4.0	4.0	3.0	4.0	5.0	3.0	3.0	5.0	7.0	9.0	12.0	11.0	12.0	10.0	8.0	11.0	11.0	12.0	17.0	7.5	17.0	3.0
5	15.0	11.0	9.0	9.0	9.0	6.0	6.0	8.0	6.0	4.0	4.0	4.0	5.0	5.0	4.0	4.0	3.0	3.0	4.0	5.0	5.0	4.0	5.0	7.0	6.0	15.0	3.0
6	8.0	5.0	5.0	6.0	6.0	4.0	5.0	6.0	6.0	6.0	7.0	6.0	3.0	3.0	6.0	6.0	5.0	5.0	8.0	5.0	4.0	7.0	6.0	7.0	5.6	8.0	3.0
7	5.0	4.0	4.0	3.0	2.0	4.0	5.0	3.0	3.0	6.0	7.0	6.0	6.0	6.0	3.0	3.0	7.0	10.0	11.0	12.0	17.0	9.0	11.0	13.0	6.7	17.0	2.0
8	13.0	10.0	7.0	6.0	6.0	6.0	5.0	4.0	4.0	6.0	3.0	0.0	0.0	2.0	4.0	4.0	2.0	3.0	4.0	2.0	2.0	4.0	6.0	3.0	4.4	13.0	0.0
9	2.0	--	4.0	5.0	4.0	3.0	4.0	4.0	8.0	7.0	2.0	2.0	1.0	1.0	2.0	1.0	0.0	1.0	-1.0	-1.0	2.0	3.0	2.0	2.0	2.5	8.0	-1.0
10	1.0	1.0	2.0	4.0	3.0	3.0	2.0	1.0	4.0	4.0	3.0	4.0	3.0	2.0	2.0	4.0	4.0	3.0	4.0	5.0	3.0	2.0	3.0	4.0	3.0	5.0	1.0
11	3.0	3.0	3.0	4.0	3.0	5.0	6.0	5.0	6.0	5.0	3.0	1.0	3.0	3.0	5.0	6.0	5.0	6.0	6.0	5.0	5.0	5.0	6.0	6.0	4.5	6.0	1.0
12	7.0	6.0	6.0	4.0	3.0	5.0	6.0	6.0	4.0	6.0	7.0	5.0	5.0	6.0	9.0	10.0	9.0	16.0	15.0	18.0	15.0	11.0	13.0	18.0	8.8	18.0	3.0
13	12.0	12.0	11.0	10.0	10.0	9.0	9.0	12.0	11.0	7.0	10.0	12.0	16.0	13.0	12.0	13.0	9.0	7.0	8.0	9.0	8.0	6.0	7.0	7.0	10.0	16.0	6.0
14	10.0	11.0	11.0	10.0	10.0	10.0	9.0	9.0	11.0	10.0	10.0	6.0	6.0	7.0	5.0	4.0	2.0	4.0	5.0	4.0	5.0	5.0	4.0	4.0	7.2	11.0	2.0
15	6.0	5.0	7.0	10.0	9.0	4.0	4.0	6.0	4.0	5.0	6.0	5.0	2.0	0.0	1.0	1.0	0.0	1.0	3.0	4.0	6.0	7.0	5.0	6.0	4.5	10.0	0.0
16	6.0	7.0	7.0	8.0	7.0	3.0	2.0	4.0	3.0	2.0	3.0	5.0	4.0	3.0	3.0	6.0	7.0	4.0	7.0	8.0	4.0	3.0	3.0	4.0	4.7	8.0	2.0
17	4.0	5.0	4.0	4.0	5.0	4.0	3.0	3.0	3.0	3.0	5.0	6.0	4.0	1.0	2.0	5.0	5.0	5.0	4.0	6.0	6.0	6.0	7.0	8.0	4.5	8.0	1.0
18	6.0	5.0	6.0	7.0	7.0	6.0	8.0	11.0	10.0	9.0	11.0	9.0	7.0	7.0	8.0	8.0	8.0	7.0	7.0	9.0	8.0	7.0	6.0	6.0	7.6	11.0	5.0
19	6.0	4.0	6.0	4.0	3.0	5.0	4.0	4.0	6.0	6.0	3.0	4.0	6.0	5.0	6.0	8.0	5.0	5.0	7.0	11.0	12.0	9.0	7.0	5.0	5.9	12.0	3.0
20	4.0	5.0	4.0	4.0	4.0	6.0	9.0	8.0	6.0	6.0	6.0	4.0	4.0	6.0	8.0	7.0	7.0	6.0	3.0	5.0	7.0	7.0	6.0	6.0	5.8	9.0	3.0
21	6.0	8.0	8.0	7.0	6.0	6.0	7.0	8.0	6.0	6.0	7.0	6.0	8.0	5.0	3.0	4.0	5.0	4.0	4.0	6.0	7.0	7.0	6.0	7.0	6.1	8.0	3.0
22	7.0	6.0	8.0	8.0	8.0	8.0	6.0	6.0	5.0	6.0	5.0	5.0	6.0	5.0	3.0	4.0	6.0	4.0	4.0	6.0	8.0	9.0	7.0	8.0	6.2	9.0	3.0
23	7.0	7.0	6.0	5.0	6.0	8.0	7.0	8.0	9.0	8.0	7.0	8.0	7.0	5.0	5.0	7.0	7.0	5.0	3.0	5.0	6.0	7.0	8.0	7.0	6.6	9.0	3.0
24	6.0	7.0	7.0	7.0	8.0	5.0	4.0	5.0	7.0	6.0	5.0	6.0	5.0	6.0	8.0	8.0	7.0	8.0	7.0	8.0	8.0	6.0	8.0	8.0	6.7	8.0	4.0
25	8.0	8.0	5.0	6.0	6.0	6.0	4.0	4.0	6.0	5.0	4.0	6.0	6.0	5.0	4.0	4.0	4.0	5.0	6.0	5.0	6.0	5.0	6.0	7.0	5.5	8.0	4.0
26	6.0	5.0	4.0	4.0	4.0	4.0	4.0	3.0	3.0	5.0	4.0	4.0	7.0	8.0	11.0	8.0	5.0	7.0	9.0	11.0	13.0	15.0	17.0	13.0	7.3	17.0	3.0
27	12.0	17.0	17.0	11.0	17.0	16.0	11.0	12.0	12.0	11.0	12.0	10.0	8.0	8.0	8.0	8.0	7.0	8.0	7.0	7.0	8.0	8.0	6.0	6.0	10.3	17.0	6.0
28	7.0	8.0	6.0	6.0	9.0	9.0	7.0	6.0	8.0	10.0	8.0	6.0	--	5.0	5.0	6.0	7.0	9.0	9.0	10.0	11.0	10.0	10.0	11.0	8.0	11.0	5.0
29	9.0	7.0	7.0	7.0	7.0	8.0	8.0	8.0	7.0	6.0	5.0	5.0	6.0	6.0	8.0	8.0	6.0	6.0	6.0	8.0	7.0	6.0	8.0	10.0	7.0	10.0	5.0
30	9.0	7.0	9.0	9.0	8.0	12.0	12.0	11.0	10.0	8.0	6.0	6.0	6.0	5.0	5.0	7.0	10.0	10.0	9.0	10.0	11.0	10.0	9.0	10.0	8.7	12.0	5.0
31	8.0	7.0	9.0	10.0	8.0	9.0	10.0	9.0	10.0	10.0	8.0	11.0	12.0	8.0	6.0	6.0	8.0	7.0	7.0	8.0	7.0	6.0	7.0	8.0	8.3	12.0	6.0
Avg	7.0	6.8	6.6	6.5	6.4	6.2	6.0	6.2	6.4	6.2	5.7	5.4	5.4	4.9	5.4	6.0	5.7	6.0	6.1	6.9	7.3	6.8	7.0	7.6	6.3	--	--
Max	15.0	17.0	17.0	11.0	17.0	16.0	12.0	12.0	12.0	11.0	12.0	12.0	16.0	13.0	12.0	13.0	11.0	16.0	15.0	18.0	17.0	15.0	17.0	18.0	--	18.0	--
Min	1.0	1.0	2.0	3.0	2.0	3.0	2.0	1.0	3.0	2.0	2.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	-1.0	-1.0	2.0	2.0	2.0	2.0	--	--	-1.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

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

Month: Jan 2014

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	8.5	4.2	3.2	4.2	2.1	3.2	9.5	9.5	5.3	6.4	8.6	6.5	6.5	18.4	10.8	11.9	19.5	20.4	32.1	25.6	12.9	20.5	6.5	8.6	11.0	32.1	2.1
2	5.4	0.0	1.1	1.1	4.3	8.6	25.8	29.0	20.4	20.5	19.5	16.3	13.0	9.8	10.9	14.2	13.1	10.8	13.0	11.9	9.7	11.9	15.1	16.1	12.6	29.0	0.0
3	12.9	8.6	6.4	9.7	13.9	11.8	12.8	12.8	10.7	--	--	--	--	--	14.3	14.3	12.1	18.5	24.9	14.0	12.9	13.9	13.9	16.0	13.4	24.9	6.4
4	14.9	14.9	13.8	19.1	9.6	20.1	14.9	14.8	25.5	23.5	22.6	8.7	9.7	9.8	13.0	16.2	18.3	19.3	21.4	25.6	17.0	18.0	10.6	9.5	16.3	25.6	8.7
5	10.6	12.6	10.5	10.5	10.5	9.4	17.7	12.5	15.7	7.4	6.4	3.2	4.3	5.4	4.3	18.2	21.4	15.9	28.5	29.4	12.6	15.8	11.5	6.3	12.5	29.4	3.2
6	8.4	8.4	1.1	4.2	10.5	134.0	19.9	40.8	40.8	24.2	26.4	12.7	10.6	7.5	8.6	10.7	6.5	4.3	4.3	6.4	6.4	7.4	5.3	4.2	17.2	134.0	1.1
7	5.3	5.3	5.3	2.1	3.2	5.3	5.3	5.3	7.4	6.4	4.3	5.4	8.6	7.6	4.3	4.3	8.6	10.8	9.7	8.6	9.6	10.7	9.6	10.6	6.8	10.8	2.1
8	9.6	10.6	10.6	7.4	8.5	7.4	8.5	19.0	10.6	10.7	10.7	8.6	4.3	6.5	23.8	17.3	17.2	13.9	21.3	15.9	19.0	17.9	9.5	10.5	12.5	23.8	4.3
9	10.6	6.3	5.3	4.2	5.3	8.4	8.5	9.5	9.6	7.5	5.3	6.4	8.6	5.4	2.2	6.5	6.5	7.5	12.8	11.7	9.5	12.7	11.6	7.4	7.9	12.8	2.2
10	5.3	16.8	9.4	9.4	11.5	22.0	16.7	21.9	22.0	19.0	14.9	14.9	18.2	26.8	25.8	19.3	25.7	23.5	23.4	21.2	22.1	18.9	14.7	18.9	18.4	26.8	5.3
11	16.8	15.8	9.5	10.5	11.6	9.5	6.3	3.2	16.8	8.5	9.6	7.5	8.6	10.8	10.9	16.3	9.8	19.5	34.4	7.5	9.6	11.7	11.7	10.6	12.0	34.4	3.2
12	9.6	8.5	7.4	7.4	10.6	9.5	6.4	8.5	7.4	7.5	10.7	10.8	10.8	11.9	18.4	9.7	11.8	18.2	33.1	18.0	21.2	14.8	13.7	12.7	12.4	33.1	6.4
13	12.8	14.9	10.6	5.3	7.4	6.3	4.2	34.4	17.8	15.8	4.3	3.2	5.4	--	--	--	--	--	--	19.0	10.5	12.6	10.5	5.2	11.1	34.4	3.2
14	6.3	3.2	1.1	3.2	2.1	-1.1	5.2	16.7	7.4	10.6	12.9	16.1	2.2	6.5	20.7	13.1	10.9	6.5	7.5	6.4	7.4	9.5	5.3	3.2	7.6	20.7	-1.1
15	4.3	5.3	5.3	8.5	10.6	3.2	4.2	7.4	24.4	6.4	7.5	7.6	7.6	7.6	8.8	7.7	18.5	18.4	16.2	11.8	12.8	12.8	9.6	4.3	9.6	24.4	3.2
16	2.1	4.2	4.3	3.2	4.3	4.3	5.4	7.6	6.5	16.2	7.6	7.6	8.8	7.7	5.5	5.5	3.3	1.1	2.2	6.5	7.5	4.3	6.5	6.5	5.8	16.2	1.1
17	5.4	7.6	9.8	9.7	5.4	2.1	6.4	10.6	11.7	8.6	3.2	5.4	6.5	5.5	6.6	5.5	4.4	6.6	6.5	4.3	1.1	1.1	4.3	6.4	6.0	11.7	1.1
18	4.3	0.0	1.1	3.2	4.3	3.2	6.4	5.3	2.1	2.2	2.2	1.1	3.3	2.2	20.9	17.5	18.6	18.5	31.3	5.4	6.5	5.4	3.3	4.3	7.2	31.3	0.0
19	5.4	5.4	6.5	8.6	8.6	19.4	21.5	16.1	10.8	4.3	4.3	5.4	5.5	5.5	5.5	6.6	6.6	7.6	7.6	6.5	5.4	5.4	6.5	5.4	7.9	21.5	4.3
20	5.4	4.3	4.3	3.2	4.3	5.3	7.5	5.3	3.2	6.4	13.0	15.2	18.6	13.1	16.4	16.4	22.9	30.4	34.5	15.0	22.5	19.2	17.1	5.4	12.9	34.5	3.2
21	7.5	9.6	8.5	3.2	5.4	10.7	22.6	39.7	39.6	40.9	40.0	48.8	43.5	43.7	38.4	31.9	24.1	27.3	26.1	28.3	21.8	23.9	19.5	27.1	26.3	48.8	3.2
22	22.8	20.6	13.0	21.6	20.6	24.8	21.6	25.9	20.5	23.8	21.8	22.0	23.2	37.5	37.5	27.6	19.8	31.7	38.1	30.3	45.3	27.9	32.2	31.1	26.7	45.3	13.0
23	31.0	29.9	35.2	28.8	26.7	10.7	28.7	39.2	32.0	23.7	22.7	9.8	13.1	17.5	14.2	15.3	13.1	13.1	17.3	6.5	10.8	57.2	79.6	94.3	27.9	94.3	6.5
24	73.7	71.3	68.0	57.2	48.7	50.7	48.5	52.6	50.6	50.7	47.6	39.2	44.6	42.6	34.2	25.7	25.7	25.6	23.5	25.6	23.5	24.5	26.6	30.9	42.2	73.7	23.5
25	26.6	28.8	21.3	23.4	23.4	18.1	21.3	21.3	18.1	18.2	19.4	18.4	21.7	26.1	23.9	32.7	30.5	39.1	40.0	31.3	45.0	46.0	34.2	24.5	27.2	46.0	18.1
26	46.8	34.0	36.1	36.1	37.1	39.2	44.4	30.7	29.7	26.8	25.9	21.6	32.5	21.8	20.7	14.2	22.8	20.6	25.9	23.7	22.5	18.2	15.0	13.9	27.5	46.8	13.9
27	12.8	13.8	20.3	18.1	9.6	12.8	13.9	43.7	27.8	23.6	26.0	15.2	18.5	5.4	8.7	13.1	14.2	15.2	22.6	20.4	18.2	27.8	18.1	14.9	18.1	43.7	5.4
28	13.8	12.7	12.7	12.7	7.4	6.4	7.4	37.0	20.2	17.1	13.0	10.9	21.8	38.1	18.5	17.5	19.6	32.5	16.2	20.3	21.3	17.0	21.3	11.7	17.8	38.1	6.4
29	12.8	7.4	3.2	4.2	6.4	3.2	4.3	7.4	60.5	9.7	7.6	7.6	38.2	25.1	20.8	13.1	13.1	15.2	23.8	21.6	12.9	14.0	11.8	4.3	14.5	60.5	3.2
30	2.2	4.3	3.2	1.1	1.1	2.1	6.4	18.3	25.7	29.0	17.4	6.6	4.4	5.5	10.0	10.0	21.0	18.7	24.2	16.5	23.0	15.3	18.6	16.4	12.5	29.0	1.1
31	20.7	15.3	10.9	9.8	14.1	21.7	18.4	21.6	21.6	--	--	24.8	22.8	16.3	30.4	48.7	32.4	52.8	43.0	31.1	26.8	20.4	18.2	23.5	24.8	52.8	9.8
Avg	14.0	13.1	11.6	11.3	11.2	15.9	14.5	20.2	20.1	16.4	15.0	12.9	14.8	15.4	16.3	16.0	16.4	18.8	22.2	17.0	16.4	17.3	15.9	15.0	15.7	--	--
Max	73.7	71.3	68.0	57.2	48.7	134.0	48.5	52.6	60.5	50.7	47.6	48.8	44.6	43.7	38.4	48.7	32.4	52.8	43.0	31.3	45.3	57.2	79.6	94.3	--	134.0	--
Min	2.1	0.0	1.1	1.1	1.1	-1.1	4.2	3.2	2.1	2.2	2.2	1.1	2.2	2.2	2.2	4.3	3.3	1.1	2.2	4.3	1.1	1.1	3.3	3.2	--	--	-1.1

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

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

Month: Feb 2014

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	16.0	21.3	18.1	16.0	27.6	25.5	30.7	28.5	30.6	30.9	27.7	31.0	27.8	18.2	22.5	16.0	22.5	21.4	10.6	17.0	10.6	10.5	9.5	8.4	20.8	31.0	8.4
2	11.5	10.5	8.3	8.4	10.4	8.3	6.2	9.4	6.3	8.4	7.4	9.6	10.7	17.1	9.6	10.7	7.5	8.5	10.6	8.5	9.6	9.6	7.4	6.4	9.2	17.1	6.2
3	8.5	8.5	3.2	0.0	4.2	7.4	7.4	18.0	21.1	12.8	14.0	22.5	10.7	46.0	19.2	24.6	9.6	12.8	12.7	9.5	8.4	7.4	6.3	6.3	12.5	46.0	0.0
4	6.3	4.2	6.2	10.4	9.4	6.2	7.3	7.3	6.3	6.3	10.5	11.6	10.5	18.0	14.9	13.8	10.6	11.7	16.9	10.5	8.4	10.5	12.6	12.6	10.1	18.0	4.2
5	12.6	10.5	7.4	7.4	10.5	14.7	17.9	12.6	11.6	10.6	8.5	5.3	6.4	7.4	6.4	4.3	4.3	2.1	0.0	2.1	6.3	6.3	4.2	5.2	7.7	17.9	0.0
6	5.2	5.2	6.3	6.3	4.2	4.2	6.3	6.3	5.3	6.3	4.2	3.2	3.2	6.4	7.5	6.4	5.3	7.5	17.0	13.8	9.6	7.4	7.4	8.5	6.8	17.0	3.2
7	11.7	12.7	8.5	7.4	8.5	10.6	16.9	22.1	17.9	13.7	13.7	13.8	12.7	11.7	12.8	9.6	7.5	7.5	8.5	8.5	7.4	10.5	12.6	8.4	11.5	22.1	7.4
8	6.3	6.3	6.3	7.3	7.3	6.3	8.4	7.4	6.3	6.4	7.5	7.5	5.4	5.4	6.5	8.6	9.7	9.7	23.5	18.1	15.9	11.7	17.0	7.4	9.3	23.5	5.4
9	7.4	6.4	10.6	9.5	5.3	6.4	22.1	3.2	6.4	7.5	8.7	6.5	3.3	18.6	15.3	12.0	12.0	14.2	19.5	20.5	9.7	7.5	6.4	10.7	10.4	22.1	3.2
10	12.8	17.1	6.4	6.4	5.3	8.5	21.3	16.0	36.3	11.9	9.8	9.8	14.2	18.7	11.0	20.9	24.2	24.1	22.9	16.3	19.5	20.6	12.9	14.0	15.9	36.3	5.3
11	15.1	19.4	17.2	13.9	14.0	41.0	18.3	42.1	8.6	6.5	6.5	2.2	-1.1	4.4	11.0	9.9	6.6	9.8	13.0	8.7	5.4	9.6	12.8	10.7	12.7	42.1	-1.1
12	8.5	5.3	5.3	6.4	7.5	9.6	11.7	19.1	16.0	4.3	3.3	4.4	6.6	27.4	26.3	12.1	12.1	10.9	9.8	24.8	16.2	16.1	13.9	27.9	12.7	27.9	3.3
13	6.4	6.4	7.5	8.6	9.6	7.5	8.5	33.0	7.5	18.4	14.2	17.5	20.9	21.0	31.0	22.2	25.5	16.6	28.5	35.0	17.4	13.0	16.2	16.2	17.0	35.0	6.4
14	12.9	8.6	7.5	8.6	7.5	17.2	10.8	11.8	52.8	18.5	17.6	14.4	12.2	18.9	31.1	20.0	24.5	26.7	29.8	31.7	21.8	28.3	21.7	18.4	19.7	52.8	7.5
15	16.2	10.9	7.6	4.3	5.4	10.8	14.0	15.1	14.1	14.3	14.4	14.5	8.9	20.1	19.0	9.0	17.9	17.8	30.9	29.6	6.6	20.7	6.5	52.2	15.9	52.2	4.3
16	9.8	6.5	5.4	6.5	8.7	26.0	50.8	13.0	11.9	13.2	15.5	15.5	18.9	21.2	13.4	12.2	12.2	11.1	62.6	8.7	10.9	12.0	10.8	10.8	16.2	62.6	5.4
17	22.7	3.3	3.3	9.8	13.0	8.6	9.7	22.7	15.2	15.3	14.3	13.3	10.0	9.0	17.9	13.4	11.2	8.9	9.9	29.7	19.7	16.4	17.4	17.4	13.8	29.7	3.3
18	17.4	7.6	18.4	13.0	13.0	18.4	17.3	34.5	15.2	21.9	21.0	16.6	14.5	12.3	13.4	12.3	11.1	10.0	23.2	14.3	14.2	12.0	10.9	10.9	15.6	34.5	7.6
19	13.0	14.1	13.0	11.9	13.0	11.9	27.0	27.1	30.3	25.0	23.0	18.7	13.2	17.7	24.3	23.2	22.1	16.6	27.4	32.8	26.1	35.7	16.3	15.2	20.8	35.7	11.9
20	14.0	14.0	14.0	17.1	18.4	32.4	18.4	18.2	21.4	16.1	12.9	13.0	13.0	13.1	8.8	6.6	8.8	13.1	14.1	17.3	18.3	16.1	23.5	9.6	15.5	32.4	6.6
21	7.5	5.4	6.4	4.3	5.3	5.3	7.5	18.1	6.4	9.7	14.1	38.1	12.0	32.9	11.0	17.6	11.0	12.1	26.2	20.6	41.0	29.0	21.5	22.5	16.1	41.0	4.3
22	17.1	30.0	18.2	13.9	18.2	8.6	11.7	14.9	17.3	14.2	24.1	19.8	17.7	15.5	15.5	16.6	32.0	22.0	24.1	26.2	18.4	23.8	27.0	20.5	19.5	32.0	8.6
23	14.0	29.1	12.9	11.8	20.5	19.4	29.1	19.5	22.8	18.6	24.2	15.5	18.8	16.6	16.6	17.7	21.0	17.6	17.5	10.9	16.3	15.2	17.3	15.1	18.2	29.1	10.9
24	14.1	14.0	18.3	10.8	12.9	17.3	23.7	16.2	15.2	14.2	17.6	13.3	12.2	17.8	15.6	17.8	41.0	21.0	28.6	25.3	24.1	14.2	18.5	18.5	18.4	41.0	10.8
25	22.8	28.2	18.4	15.1	16.2	24.8	41.0	66.9	33.5	18.5	27.3	21.9	26.4	57.1	61.6	27.4	32.8	33.8	37.0	35.9	34.7	52.0	33.5	33.5	33.4	66.9	15.1
26	21.6	38.9	34.5	34.4	44.0	40.7	38.6	51.3	27.0	33.7	31.7	25.2	31.9	38.6	29.8	15.5	19.9	20.9	30.7	20.8	24.0	18.5	24.9	16.2	29.7	51.3	15.5
27	19.4	16.2	22.6	24.7	16.1	16.0	25.6	24.6	14.0	17.3	19.6	14.2	19.7	20.9	82.6	100.0	86.9	44.0	36.1	26.2	21.7	13.0	17.3	20.5	30.0	100.0	13.0
28	20.5	18.3	13.9	14.0	15.1	18.3	11.9	20.5	18.4	13.1	12.1	9.9	10.0	10.0	20.0	--	25.5	29.9	58.7	74.0	46.3	86.9	48.3	16.4	26.6	86.9	9.9
Avg	13.3	13.5	11.6	11.0	12.5	15.4	18.6	21.4	17.7	14.6	15.2	14.6	13.2	19.4	20.5	17.8	19.1	16.5	23.2	21.3	17.4	19.1	16.2	15.7	16.6	--	--
Max	22.8	38.9	34.5	34.4	44.0	41.0	50.8	66.9	52.8	33.7	31.7	38.1	31.9	57.1	82.6	100.0	86.9	44.0	62.6	74.0	46.3	86.9	48.3	52.2	--	100.0	--
Min	5.2	3.3	3.2	0.0	4.2	4.2	6.2	3.2	5.3	4.3	3.3	2.2	-1.1	4.4	6.4	4.3	4.3	2.1	0.0	2.1	5.4	6.3	4.2	5.2	--	--	-1.1

SAROAD for Resolution, West_Plant

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

Month: Mar 2014

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	14.3	17.5	20.8	66.4	7.6	44.2	21.5	6.4	8.6	10.7	5.3	5.3	7.5	6.4	6.5	5.4	6.5	7.6	7.6	4.3	2.2	4.3	4.3	5.3	12.3	66.4	2.2
2	5.3	5.3	1.1	0.0	2.1	3.2	5.2	3.1	0.0	1.1	6.3	10.6	8.5	6.4	6.5	5.4	6.5	9.6	6.4	6.4	9.6	10.6	11.7	9.5	5.8	11.7	0.0
3	8.5	7.4	5.3	3.2	6.3	9.5	11.6	10.6	11.7	15.0	14.0	7.6	7.6	17.5	20.7	12.0	12.0	9.8	9.8	8.6	9.7	11.8	17.1	4.3	10.5	20.7	3.2
4	6.4	7.5	4.3	3.2	2.1	5.4	6.4	3.2	4.3	9.7	6.5	5.4	17.5	16.4	10.9	13.1	12.0	6.6	8.7	18.4	12.9	12.9	11.8	11.8	9.1	18.4	2.1
5	16.0	16.0	22.5	23.5	14.9	11.7	7.5	7.5	9.7	9.7	5.4	5.5	7.7	5.5	8.8	7.7	5.5	8.8	7.7	3.3	2.2	6.5	6.5	2.2	9.3	23.5	2.2
6	5.4	9.7	7.6	4.3	5.4	3.2	7.6	8.7	5.4	6.6	8.8	5.5	3.3	6.7	39.9	12.2	10.0	8.8	20.9	12.0	13.0	15.2	15.1	9.7	10.2	39.9	3.2
7	30.3	10.8	8.6	8.6	9.7	11.9	24.7	23.6	14.1	--	12.0	39.6	12.1	11.0	25.4	13.3	13.3	31.9	20.8	27.3	18.5	21.7	22.7	20.6	18.8	39.6	8.6
8	23.8	17.3	14.0	10.7	18.4	23.8	111.0	18.3	14.0	11.9	8.7	5.5	4.4	3.3	0.0	0.0	5.5	5.5	5.5	10.8	8.6	6.5	11.8	8.6	14.5	111.0	0.0
9	2.1	--	--	5.3	5.3	7.4	10.5	21.0	4.2	5.3	4.3	0.0	0.0	1.1	-3.3	-4.4	1.1	0.0	-1.1	4.3	8.6	5.4	1.1	2.1	3.7	21.0	-4.4
10	5.4	2.2	1.1	4.3	2.1	0.0	7.5	11.7	6.5	1.1	3.3	5.5	6.6	6.6	6.6	6.6	4.4	4.4	9.9	10.9	9.8	10.8	10.8	9.7	6.1	11.7	0.0
11	8.6	9.7	6.4	3.2	6.4	16.0	23.5	78.1	31.3	7.6	17.4	10.9	13.1	11.0	12.1	14.3	13.2	22.0	32.9	9.8	13.0	21.6	17.3	14.0	17.2	78.1	3.2
12	17.2	18.3	15.1	17.1	11.8	11.8	11.8	10.7	19.4	9.8	18.5	18.6	25.3	64.1	73.0	71.9	92.9	138.0	148.0	145.0	140.0	139.0	172.0	152.0	64.2	172.0	9.8
13	144.0	151.0	144.0	147.0	125.0	109.0	109.0	93.8	88.6	93.3	108.0	148.0	123.0	96.5	93.2	70.9	49.8	45.3	24.3	34.1	43.8	39.4	40.3	33.8	89.8	151.0	24.3
14	40.3	57.5	61.7	62.5	58.1	57.1	54.8	48.4	31.3	17.3	10.8	23.9	28.3	20.7	18.5	19.4	5.4	7.6	9.7	9.7	11.8	10.7	7.5	5.4	28.3	62.5	5.4
15	6.4	10.7	10.6	11.7	13.8	13.8	15.9	19.1	15.0	17.3	20.6	12.0	20.9	4.4	8.8	25.4	12.2	9.9	8.8	10.9	57.8	58.7	43.3	44.2	19.7	58.7	4.4
16	45.1	426.0	154.0	63.0	6.4	5.3	5.3	5.3	4.3	1.1	2.2	4.3	4.4	4.4	3.3	1.1	4.4	6.6	9.8	11.9	8.6	7.5	18.2	9.6	33.9	426.0	1.1
17	9.6	10.7	9.7	6.4	6.4	8.5	54.2	28.9	7.6	8.7	9.9	19.8	10.0	24.4	23.4	11.2	11.2	20.2	20.1	19.9	31.0	23.1	14.3	16.4	16.9	54.2	6.4
18	13.1	17.4	17.4	22.8	18.4	22.7	45.3	103.0	31.6	38.2	38.3	28.5	28.7	44.3	47.7	32.2	25.4	16.5	30.7	24.0	20.6	18.4	22.7	19.3	30.3	103.0	13.1
19	13.9	19.3	17.1	18.2	18.2	18.2	22.4	12.8	18.3	10.9	12.0	25.2	22.0	20.9	21.0	27.7	18.8	25.3	38.4	25.1	37.9	18.4	22.6	19.3	21.0	38.4	10.9
20	23.6	18.2	20.3	28.9	21.5	18.3	19.3	19.4	20.7	17.5	11.0	22.1	18.9	18.9	51.3	24.5	15.6	17.7	25.4	13.2	25.2	20.8	16.3	20.6	21.2	51.3	11.0
21	14.1	18.4	13.0	12.9	22.6	13.9	21.4	21.6	20.7	27.4	19.8	36.4	14.4	12.2	33.3	16.7	12.2	27.7	25.4	23.1	17.5	17.4	18.5	16.3	19.9	36.4	12.2
22	18.4	19.4	20.5	17.3	15.1	30.0	20.4	15.0	11.9	10.9	9.9	6.6	9.9	9.9	5.5	6.7	11.1	11.0	18.7	19.7	28.3	13.0	8.6	17.3	14.8	30.0	5.5
23	9.7	9.7	10.8	9.7	9.7	12.9	20.4	15.1	18.4	12.0	8.8	8.8	11.1	17.7	12.2	13.3	10.0	20.0	12.1	18.7	29.6	13.1	30.4	16.3	14.6	30.4	8.8
24	14.1	11.9	16.2	16.2	15.1	16.1	46.2	21.6	19.6	27.3	11.0	13.3	14.5	23.4	26.9	14.5	12.2	11.1	28.8	15.4	15.4	14.2	12.0	9.8	17.8	46.2	9.8
25	10.9	16.3	8.7	8.7	6.5	3.3	27.0	18.5	33.9	25.5	13.4	12.3	11.2	10.1	23.6	20.2	5.6	271.0	12.2	17.6	11.0	20.9	18.6	9.9	25.7	271.0	3.3
26	8.7	6.5	6.5	8.7	10.8	9.8	10.8	15.2	14.2	8.8	18.7	38.6	32.0	33.2	27.7	34.4	41.0	82.9	72.6	109.0	109.0	86.9	64.9	70.1	38.4	109.0	6.5
27	73.1	88.1	87.8	107.0	117.0	101.0	78.4	68.0	79.2	60.1	51.7	41.2	37.0	36.0	29.5	33.8	40.3	41.3	33.6	18.4	19.4	21.5	15.0	14.9	53.9	117.0	14.9
28	18.1	20.2	20.2	20.2	27.6	32.8	40.1	28.7	34.2	34.5	--	--	18.5	28.4	21.9	20.8	18.6	18.6	23.9	21.7	29.1	30.1	31.1	26.7	25.7	40.1	18.1
29	22.4	26.7	18.2	18.1	25.6	13.9	27.7	16.1	18.4	10.9	19.8	13.3	17.8	12.3	14.5	12.3	7.9	10.1	21.1	27.6	26.4	20.8	17.5	16.3	18.1	27.7	7.9
30	20.7	20.7	18.5	42.4	26.1	21.7	26.0	41.2	15.3	17.5	17.6	20.9	37.5	19.9	23.3	40.0	26.6	45.3	39.6	38.3	57.8	39.0	48.6	32.3	30.7	57.8	15.3
31	36.6	38.6	39.6	33.1	33.2	25.7	35.4	45.3	39.1	35.0	41.7	39.6	37.6	32.1	71.1	28.9	27.8	25.5	26.5	15.4	19.7	15.3	20.7	17.3	32.5	71.1	15.3
Avg	22.1	37.0	26.7	25.9	21.6	22.0	30.0	27.1	21.0	18.8	17.9	21.2	19.7	20.2	24.6	19.7	17.4	31.2	24.5	23.7	27.3	24.4	24.9	21.5	23.7	--	--
Max	144.0	426.0	154.0	147.0	125.0	109.0	111.0	103.0	88.6	93.3	108.0	148.0	123.0	96.5	93.2	71.9	92.9	271.0	148.0	145.0	140.0	139.0	172.0	152.0	--	426.0	--
Min	2.1	2.2	1.1	0.0	2.1	0.0	5.2	3.1	0.0	1.1	2.2	0.0	0.0	1.1	-3.3	-4.4	1.1	0.0	-1.1	3.3	2.2	4.3	1.1	2.1	--	--	-4.4

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table126, conc_PM25_µg/m^3 Actual"
Month: Jan 2014

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	6.0	18.0	4.0	4.0	3.0	2.0	0.0	2.0	3.0	-15.0	-3.0	-1.0	1.0	2.0	2.0	1.0	1.0	6.0	8.0	4.0	0.0	-3.0	0.0	0.0	1.9	18.0	-15.0
2	-1.0	1.0	1.0	-1.0	-1.0	0.0	0.0	1.0	2.0	1.0	0.0	0.0	-1.0	-3.0	-4.0	-3.0	0.0	1.0	0.0	-1.0	2.0	2.0	2.0	1.0	0.0	2.0	-4.0
3	0.0	2.0	1.0	0.0	3.0	2.0	0.0	3.0	2.0	--	-1.0	0.0	0.0	-3.0	-4.0	-3.0	-1.0	2.0	4.0	3.0	-1.0	1.0	3.0	3.0	0.7	4.0	-4.0
4	4.0	3.0	3.0	5.0	6.0	3.0	4.0	5.0	6.0	10.0	8.0	4.0	3.0	1.0	0.0	3.0	2.0	3.0	4.0	4.0	4.0	6.0	3.0	-1.0	3.9	10.0	-1.0
5	3.0	7.0	4.0	1.0	2.0	1.0	0.0	2.0	1.0	-2.0	-2.0	2.0	1.0	-2.0	-1.0	0.0	3.0	3.0	1.0	1.0	2.0	3.0	1.0	-1.0	1.3	7.0	-2.0
6	5.0	4.0	1.0	1.0	0.0	4.0	5.0	3.0	3.0	2.0	3.0	3.0	0.0	-2.0	-1.0	1.0	1.0	3.0	3.0	3.0	2.0	1.0	0.0	1.0	1.9	5.0	-2.0
7	3.0	2.0	2.0	0.0	4.0	5.0	2.0	2.0	1.0	0.0	0.0	1.0	3.0	0.0	-2.0	-2.0	1.0	5.0	5.0	4.0	3.0	3.0	2.0	1.0	1.9	5.0	-2.0
8	4.0	2.0	-1.0	2.0	3.0	1.0	1.0	2.0	3.0	1.0	1.0	0.0	1.0	1.0	--	3.0	6.0	8.0	8.0	6.0	5.0	6.0	6.0	6.0	3.3	8.0	-1.0
9	4.0	2.0	2.0	2.0	3.0	4.0	2.0	2.0	2.0	3.0	4.0	2.0	--	1.0	-2.0	-2.0	1.0	3.0	4.0	3.0	5.0	4.0	2.0	1.0	2.3	5.0	-2.0
10	0.0	2.0	2.0	2.0	7.0	9.0	7.0	6.0	5.0	4.0	3.0	6.0	9.0	6.0	6.0	6.0	8.0	12.0	12.0	12.0	13.0	10.0	8.0	9.0	6.8	13.0	0.0
11	9.0	6.0	6.0	5.0	3.0	4.0	4.0	1.0	-1.0	1.0	2.0	0.0	0.0	2.0	1.0	0.0	0.0	4.0	5.0	3.0	3.0	2.0	2.0	3.0	2.7	9.0	-1.0
12	4.0	4.0	5.0	6.0	5.0	3.0	1.0	1.0	3.0	4.0	--	4.0	2.0	0.0	0.0	1.0	1.0	2.0	6.0	8.0	7.0	8.0	9.0	6.0	3.9	9.0	0.0
13	3.0	0.0	1.0	2.0	2.0	3.0	1.0	3.0	4.0	0.0	-1.0	0.0	-1.0	4.0	5.0	--	--	--	-8.0	-5.0	-1.0	-1.0	0.0	4.0	0.7	5.0	-8.0
14	1.0	-4.0	0.0	3.0	1.0	1.0	4.0	3.0	6.0	3.0	-5.0	-2.0	-2.0	0.0	1.0	1.0	2.0	3.0	2.0	5.0	5.0	3.0	2.0	0.0	1.4	6.0	-5.0
15	1.0	2.0	2.0	2.0	1.0	-1.0	0.0	2.0	2.0	0.0	1.0	2.0	1.0	3.0	2.0	0.0	0.0	4.0	5.0	1.0	2.0	3.0	2.0	4.0	1.7	5.0	-1.0
16	3.0	0.0	1.0	0.0	2.0	2.0	1.0	0.0	1.0	1.0	1.0	1.0	3.0	3.0	0.0	-4.0	-4.0	0.0	1.0	1.0	0.0	2.0	0.0	0.0	0.6	3.0	-4.0
17	1.0	1.0	0.0	1.0	0.0	1.0	3.0	2.0	4.0	4.0	2.0	-1.0	0.0	2.0	2.0	2.0	3.0	1.0	0.0	1.0	0.0	1.0	4.0	2.0	1.5	4.0	-1.0
18	0.0	1.0	-1.0	0.0	0.0	-1.0	1.0	-1.0	0.0	1.0	0.0	0.0	-1.0	-2.0	1.0	3.0	5.0	3.0	3.0	1.0	-2.0	1.0	2.0	-1.0	0.5	5.0	-2.0
19	-2.0	1.0	0.0	-3.0	-2.0	1.0	1.0	1.0	0.0	0.0	1.0	0.0	-1.0	0.0	-1.0	-2.0	-1.0	2.0	1.0	-2.0	-3.0	0.0	1.0	1.0	-0.3	2.0	-3.0
20	-1.0	-2.0	0.0	1.0	2.0	1.0	0.0	2.0	4.0	3.0	3.0	2.0	2.0	0.0	0.0	2.0	0.0	3.0	7.0	8.0	6.0	3.0	3.0	2.0	2.1	8.0	-2.0
21	-1.0	2.0	4.0	3.0	4.0	5.0	2.0	2.0	2.0	3.0	4.0	3.0	3.0	3.0	3.0	2.0	1.0	2.0	4.0	4.0	5.0	6.0	4.0	-1.0	2.9	6.0	-1.0
22	1.0	2.0	0.0	0.0	0.0	1.0	2.0	4.0	3.0	2.0	2.0	2.0	1.0	1.0	5.0	8.0	6.0	2.0	5.0	6.0	6.0	5.0	4.0	5.0	3.0	8.0	0.0
23	7.0	10.0	10.0	8.0	7.0	5.0	6.0	7.0	5.0	6.0	5.0	2.0	3.0	2.0	2.0	3.0	1.0	3.0	3.0	3.0	3.0	3.0	8.0	11.0	5.1	11.0	1.0
24	9.0	7.0	7.0	7.0	7.0	7.0	6.0	5.0	6.0	7.0	6.0	4.0	5.0	6.0	5.0	2.0	5.0	6.0	6.0	5.0	3.0	2.0	2.0	3.0	5.3	9.0	2.0
25	5.0	6.0	6.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	7.0	7.0	6.0	5.0	4.0	5.0	4.0	5.0	8.0	8.0	8.0	9.0	6.0	5.0	5.7	9.0	4.0
26	8.0	10.0	9.0	10.0	11.0	11.0	13.0	11.0	8.0	6.0	5.0	8.0	9.0	5.0	3.0	4.0	3.0	4.0	6.0	4.0	1.0	3.0	2.0	3.0	6.5	13.0	1.0
27	6.0	6.0	6.0	6.0	3.0	3.0	4.0	6.0	8.0	6.0	3.0	5.0	5.0	1.0	-2.0	2.0	1.0	1.0	4.0	7.0	7.0	5.0	4.0	4.0	4.2	8.0	-2.0
28	5.0	5.0	6.0	3.0	1.0	1.0	2.0	3.0	5.0	4.0	3.0	1.0	0.0	2.0	2.0	2.0	3.0	6.0	7.0	7.0	8.0	7.0	5.0	6.0	3.9	8.0	0.0
29	4.0	1.0	0.0	1.0	2.0	1.0	-2.0	-2.0	2.0	3.0	1.0	-1.0	-2.0	-3.0	1.0	2.0	1.0	4.0	5.0	4.0	3.0	1.0	2.0	2.0	1.3	5.0	-3.0
30	0.0	0.0	2.0	2.0	1.0	2.0	1.0	-1.0	0.0	1.0	1.0	-3.0	-4.0	-2.0	-2.0	-1.0	3.0	4.0	2.0	1.0	-2.0	-1.0	5.0	3.0	0.5	5.0	-4.0
31	1.0	2.0	1.0	1.0	0.0	1.0	2.0	2.0	4.0	5.0	--	1.0	0.0	1.0	3.0	4.0	4.0	3.0	2.0	2.0	3.0	5.0	4.0	3.0	2.4	5.0	0.0
Avg	3.0	3.3	2.7	2.5	2.7	2.8	2.5	2.7	3.2	2.3	1.9	1.7	1.5	1.1	1.0	1.3	2.0	3.6	4.0	3.6	3.1	3.2	3.2	2.7	2.6	--	--
Max	9.0	18.0	10.0	10.0	11.0	11.0	13.0	11.0	8.0	10.0	8.0	8.0	9.0	6.0	6.0	8.0	8.0	12.0	12.0	12.0	13.0	10.0	9.0	11.0	--	18.0	--
Min	-2.0	-4.0	-1.0	-3.0	-2.0	-1.0	-2.0	-2.0	-1.0	-15.0	-5.0	-3.0	-4.0	-3.0	-4.0	-4.0	-4.0	0.0	-8.0	-5.0	-3.0	-3.0	0.0	-1.0	--	--	-15.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table126, conc_PM25_µg/m^3 Actual"
Month: Feb 2014

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	4.0	4.0	3.0	2.0	1.0	4.0	5.0	4.0	4.0	6.0	6.0	4.0	2.0	3.0	5.0	4.0	4.0	3.0	2.0	4.0	4.0	4.0	5.0	7.0	3.9	7.0	1.0
2	5.0	3.0	6.0	7.0	4.0	0.0	0.0	0.0	3.0	3.0	-3.0	-2.0	3.0	2.0	-2.0	0.0	4.0	3.0	3.0	3.0	0.0	4.0	5.0	4.0	2.3	7.0	-3.0
3	2.0	1.0	2.0	3.0	4.0	1.0	1.0	4.0	3.0	0.0	0.0	2.0	1.0	2.0	5.0	4.0	1.0	4.0	4.0	2.0	4.0	6.0	5.0	4.0	2.7	6.0	0.0
4	5.0	3.0	0.0	0.0	3.0	4.0	4.0	5.0	4.0	4.0	2.0	1.0	2.0	3.0	1.0	2.0	2.0	3.0	6.0	5.0	2.0	3.0	3.0	4.0	3.0	6.0	0.0
5	3.0	1.0	1.0	3.0	2.0	5.0	7.0	3.0	3.0	5.0	3.0	1.0	2.0	1.0	-1.0	-2.0	2.0	2.0	2.0	4.0	4.0	3.0	4.0	5.0	2.6	7.0	-2.0
6	3.0	0.0	2.0	2.0	-1.0	0.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	4.0	5.0	1.0	-1.0	3.0	5.0	5.0	3.0	3.0	3.0	1.8	5.0	-1.0
7	2.0	2.0	4.0	3.0	2.0	2.0	4.0	6.0	7.0	6.0	3.0	1.0	1.0	0.0	1.0	2.0	2.0	1.0	3.0	3.0	-1.0	-1.0	2.0	3.0	2.4	7.0	-1.0
8	1.0	1.0	2.0	1.0	2.0	3.0	3.0	0.0	0.0	4.0	3.0	-2.0	-3.0	0.0	-1.0	-1.0	-1.0	0.0	3.0	3.0	3.0	7.0	5.0	4.0	1.5	7.0	-3.0
9	3.0	2.0	4.0	3.0	1.0	2.0	4.0	2.0	1.0	1.0	2.0	2.0	1.0	2.0	5.0	5.0	4.0	1.0	2.0	3.0	2.0	4.0	2.0	1.0	2.5	5.0	1.0
10	1.0	1.0	0.0	0.0	0.0	-1.0	1.0	2.0	2.0	3.0	-1.0	-3.0	-1.0	2.0	1.0	0.0	1.0	1.0	3.0	5.0	5.0	3.0	6.0	6.0	1.5	6.0	-3.0
11	3.0	4.0	6.0	3.0	1.0	1.0	1.0	2.0	1.0	-3.0	-3.0	-1.0	-1.0	-1.0	-1.0	0.0	2.0	4.0	3.0	1.0	0.0	3.0	3.0	2.0	1.3	6.0	-3.0
12	3.0	1.0	2.0	2.0	0.0	1.0	1.0	1.0	0.0	-2.0	-1.0	-2.0	-4.0	-3.0	0.0	1.0	-2.0	-1.0	2.0	1.0	0.0	2.0	2.0	1.0	0.2	3.0	-4.0
13	0.0	-1.0	1.0	1.0	2.0	3.0	1.0	1.0	0.0	-4.0	-3.0	1.0	1.0	1.0	2.0	1.0	3.0	0.0	-1.0	3.0	2.0	2.0	2.0	1.0	0.8	3.0	-4.0
14	4.0	0.0	-3.0	0.0	1.0	1.0	3.0	3.0	4.0	4.0	0.0	-1.0	3.0	3.0	1.0	2.0	2.0	1.0	4.0	6.0	5.0	4.0	3.0	3.0	2.2	6.0	-3.0
15	5.0	2.0	-3.0	-1.0	2.0	1.0	1.0	2.0	0.0	0.0	3.0	3.0	-1.0	0.0	2.0	0.0	2.0	4.0	4.0	4.0	3.0	4.0	1.0	1.0	1.6	5.0	-3.0
16	4.0	2.0	0.0	2.0	5.0	3.0	0.0	3.0	3.0	1.0	1.0	2.0	0.0	0.0	0.0	0.0	1.0	3.0	5.0	3.0	2.0	3.0	3.0	1.0	2.0	5.0	0.0
17	2.0	2.0	2.0	2.0	3.0	5.0	3.0	3.0	2.0	3.0	2.0	2.0	2.0	-1.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	4.0	3.0	1.0	1.9	5.0	-1.0
18	3.0	3.0	0.0	-1.0	2.0	3.0	3.0	5.0	5.0	--	4.0	3.0	1.0	2.0	2.0	0.0	1.0	0.0	1.0	3.0	1.0	1.0	1.0	1.0	1.9	5.0	-1.0
19	1.0	2.0	0.0	1.0	2.0	0.0	1.0	2.0	0.0	4.0	5.0	3.0	3.0	3.0	1.0	2.0	0.0	0.0	5.0	5.0	2.0	2.0	4.0	4.0	2.2	5.0	0.0
20	3.0	3.0	4.0	6.0	2.0	0.0	3.0	4.0	3.0	2.0	1.0	-1.0	-4.0	-1.0	1.0	0.0	-2.0	0.0	2.0	1.0	2.0	4.0	3.0	2.0	1.6	6.0	-4.0
21	2.0	1.0	2.0	2.0	2.0	2.0	3.0	4.0	3.0	1.0	4.0	4.0	3.0	3.0	2.0	2.0	-1.0	2.0	5.0	3.0	5.0	7.0	8.0	8.0	3.2	8.0	-1.0
22	5.0	6.0	5.0	4.0	4.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	4.0	3.0	2.0	2.0	6.0	7.0	4.0	5.0	6.0	6.0	4.0	2.0	4.0	7.0	2.0
23	4.0	5.0	5.0	6.0	5.0	3.0	2.0	4.0	4.0	3.0	4.0	4.0	5.0	3.0	2.0	3.0	3.0	1.0	1.0	1.0	2.0	6.0	3.0	0.0	3.3	6.0	0.0
24	-1.0	1.0	2.0	2.0	3.0	2.0	3.0	3.0	4.0	3.0	1.0	0.0	-2.0	0.0	2.0	1.0	5.0	4.0	5.0	6.0	5.0	4.0	3.0	4.0	2.5	6.0	-2.0
25	5.0	6.0	7.0	6.0	5.0	6.0	6.0	4.0	5.0	5.0	4.0	5.0	5.0	5.0	6.0	5.0	2.0	4.0	6.0	7.0	7.0	7.0	8.0	7.0	5.5	8.0	2.0
26	6.0	9.0	8.0	9.0	11.0	12.0	11.0	9.0	7.0	7.0	7.0	5.0	6.0	7.0	4.0	2.0	2.0	3.0	5.0	6.0	4.0	5.0	8.0	10.0	6.8	12.0	2.0
27	6.0	4.0	5.0	6.0	6.0	6.0	6.0	7.0	4.0	0.0	1.0	1.0	0.0	-1.0	1.0	3.0	2.0	1.0	0.0	0.0	3.0	4.0	3.0	3.0	3.0	7.0	-1.0
28	1.0	-2.0	-1.0	1.0	1.0	2.0	2.0	0.0	1.0	0.0	-1.0	-2.0	-1.0	2.0	4.0	--	1.0	0.0	3.0	5.0	5.0	6.0	4.0	-1.0	1.3	6.0	-2.0
Avg	3.0	2.4	2.4	2.7	2.7	2.6	3.0	3.1	2.8	2.2	1.7	1.2	1.0	1.4	1.8	1.6	1.7	1.8	3.0	3.6	3.0	3.9	3.8	3.3	2.5	--	--
Max	6.0	9.0	8.0	9.0	11.0	12.0	11.0	9.0	7.0	7.0	7.0	5.0	6.0	7.0	6.0	5.0	6.0	7.0	6.0	7.0	7.0	7.0	8.0	10.0	--	12.0	--
Min	-1.0	-2.0	-3.0	-1.0	-1.0	-1.0	0.0	0.0	0.0	-4.0	-3.0	-3.0	-4.0	-3.0	-2.0	-2.0	-2.0	-1.0	-1.0	0.0	-1.0	-1.0	1.0	-1.0	--	--	-4.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table126, conc_PM25_µg/m^3 Actual"
Month: Mar 2014

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	1.0	-1.0	3.0	6.0	3.0	2.0	5.0	3.0	3.0	4.0	3.0	2.0	2.0	1.0	-1.0	0.0	1.0	0.0	0.0	1.0	0.0	3.0	4.0	1.9	6.0	-1.0
2	5.0	3.0	-1.0	1.0	2.0	1.0	1.0	4.0	3.0	1.0	-1.0	0.0	2.0	1.0	1.0	1.0	1.0	6.0	6.0	0.0	3.0	6.0	5.0	5.0	2.3	6.0	-1.0
3	3.0	3.0	1.0	0.0	1.0	2.0	4.0	5.0	3.0	1.0	1.0	1.0	0.0	1.0	2.0	2.0	2.0	4.0	4.0	4.0	3.0	2.0	2.0	3.0	2.3	5.0	0.0
4	3.0	4.0	2.0	2.0	1.0	-2.0	-1.0	0.0	1.0	4.0	2.0	1.0	1.0	3.0	6.0	5.0	3.0	2.0	5.0	7.0	7.0	7.0	6.0	7.0	3.2	7.0	-2.0
5	10.0	8.0	6.0	7.0	7.0	4.0	4.0	4.0	2.0	0.0	-1.0	0.0	0.0	-2.0	-3.0	-2.0	2.0	4.0	3.0	1.0	0.0	1.0	-2.0	-1.0	2.2	10.0	-3.0
6	4.0	2.0	1.0	3.0	3.0	4.0	3.0	0.0	-2.0	0.0	0.0	-1.0	1.0	-2.0	-1.0	3.0	2.0	-2.0	2.0	5.0	5.0	5.0	3.0	3.0	1.7	5.0	-2.0
7	2.0	2.0	2.0	4.0	3.0	2.0	3.0	5.0	5.0	--	1.0	-3.0	-4.0	-3.0	0.0	0.0	2.0	4.0	4.0	5.0	6.0	6.0	4.0	2.0	2.3	6.0	-4.0
8	6.0	7.0	6.0	7.0	4.0	2.0	3.0	2.0	-1.0	-1.0	-1.0	0.0	2.0	0.0	-3.0	-4.0	-1.0	0.0	0.0	-1.0	0.0	3.0	4.0	2.0	1.5	7.0	-4.0
9	0.0	--	0.0	1.0	0.0	1.0	1.0	2.0	0.0	-3.0	-3.0	-1.0	1.0	-1.0	-3.0	-4.0	-3.0	-2.0	0.0	0.0	1.0	1.0	0.0	0.0	-0.5	2.0	-4.0
10	0.0	2.0	1.0	-1.0	1.0	4.0	1.0	1.0	1.0	-2.0	-5.0	-2.0	0.0	-3.0	-4.0	-3.0	-2.0	-1.0	3.0	3.0	2.0	0.0	0.0	1.0	-0.1	4.0	-5.0
11	2.0	1.0	1.0	1.0	0.0	2.0	2.0	3.0	1.0	-4.0	-4.0	-2.0	-3.0	-2.0	0.0	-1.0	-1.0	1.0	3.0	2.0	1.0	4.0	5.0	4.0	0.7	5.0	-4.0
12	5.0	5.0	3.0	4.0	2.0	3.0	4.0	1.0	-1.0	-3.0	0.0	4.0	3.0	0.0	4.0	6.0	9.0	13.0	13.0	16.0	13.0	13.0	13.0	14.0	6.0	16.0	-3.0
13	13.0	13.0	17.0	15.0	12.0	9.0	10.0	9.0	6.0	5.0	8.0	12.0	13.0	9.0	6.0	8.0	10.0	6.0	3.0	4.0	6.0	4.0	3.0	4.0	8.5	17.0	3.0
14	5.0	5.0	--	7.0	8.0	7.0	6.0	5.0	4.0	1.0	0.0	1.0	2.0	2.0	1.0	4.0	6.0	3.0	1.0	0.0	-1.0	--	--	--	3.4	8.0	-1.0
15	--	--	--	--	--	0.0	3.0	--	2.0	0.0	0.0	-3.0	-2.0	-1.0	-1.0	-1.0	-3.0	0.0	2.0	2.0	5.0	5.0	2.0	3.0	0.7	5.0	-3.0
16	4.0	8.0	8.0	4.0	3.0	0.0	-1.0	0.0	1.0	1.0	0.0	0.0	0.0	-3.0	-3.0	-1.0	-3.0	-3.0	-1.0	-1.0	-1.0	2.0	1.0	0.0	0.6	8.0	-3.0
17	1.0	2.0	2.0	1.0	1.0	0.0	2.0	5.0	3.0	0.0	0.0	-3.0	-2.0	1.0	0.0	0.0	1.0	1.0	2.0	2.0	3.0	4.0	4.0	5.0	1.5	5.0	-3.0
18	4.0	4.0	3.0	4.0	4.0	2.0	5.0	8.0	5.0	4.0	4.0	3.0	1.0	4.0	5.0	3.0	2.0	3.0	4.0	3.0	3.0	4.0	5.0	7.0	3.9	8.0	1.0
19	2.0	1.0	3.0	2.0	2.0	4.0	4.0	4.0	5.0	3.0	0.0	0.0	3.0	4.0	4.0	6.0	5.0	3.0	4.0	5.0	5.0	5.0	4.0	5.0	3.5	6.0	0.0
20	6.0	4.0	3.0	4.0	3.0	4.0	5.0	5.0	3.0	1.0	-1.0	-4.0	-1.0	2.0	2.0	2.0	2.0	1.0	2.0	6.0	6.0	5.0	4.0	3.0	2.8	6.0	-4.0
21	5.0	5.0	2.0	1.0	2.0	3.0	3.0	2.0	--	3.0	3.0	2.0	2.0	-1.0	0.0	2.0	1.0	1.0	0.0	3.0	5.0	6.0	6.0	4.0	2.6	6.0	-1.0
22	5.0	3.0	4.0	3.0	2.0	2.0	3.0	3.0	3.0	2.0	1.0	0.0	-2.0	-1.0	-2.0	-4.0	-5.0	-3.0	2.0	6.0	5.0	4.0	6.0	5.0	1.8	6.0	-5.0
23	1.0	3.0	4.0	3.0	6.0	7.0	7.0	5.0	3.0	2.0	-1.0	3.0	1.0	0.0	1.0	1.0	0.0	1.0	3.0	3.0	4.0	3.0	3.0	1.0	2.7	7.0	-1.0
24	1.0	4.0	3.0	2.0	5.0	6.0	4.0	6.0	6.0	3.0	2.0	2.0	2.0	0.0	1.0	1.0	4.0	3.0	-1.0	2.0	6.0	3.0	0.0	2.0	2.8	6.0	-1.0
25	4.0	6.0	4.0	2.0	1.0	0.0	2.0	4.0	4.0	3.0	2.0	-1.0	-2.0	0.0	-1.0	0.0	0.0	3.0	3.0	1.0	3.0	1.0	2.0	3.0	1.8	6.0	-2.0
26	2.0	2.0	2.0	4.0	2.0	2.0	2.0	1.0	2.0	-1.0	1.0	3.0	2.0	3.0	5.0	5.0	4.0	4.0	4.0	7.0	10.0	10.0	12.0	8.0	4.0	12.0	-1.0
27	5.0	9.0	16.0	19.0	15.0	16.0	13.0	13.0	11.0	7.0	6.0	5.0	3.0	--	--	5.0	4.0	-1.0	1.0	5.0	3.0	0.0	1.0	3.0	7.2	19.0	-1.0
28	5.0	6.0	4.0	3.0	6.0	7.0	8.0	7.0	6.0	5.0	--	--	6.0	7.0	3.0	2.0	--	--	--	4.0	4.0	5.0	6.0	10.0	5.5	10.0	2.0
29	10.0	7.0	5.0	2.0	3.0	6.0	6.0	3.0	2.0	--	4.0	6.0	3.0	0.0	3.0	4.0	2.0	4.0	6.0	9.0	10.0	7.0	8.0	10.0	5.2	10.0	0.0
30	9.0	6.0	6.0	7.0	7.0	8.0	9.0	8.0	7.0	7.0	7.0	6.0	4.0	1.0	3.0	4.0	5.0	4.0	6.0	11.0	10.0	6.0	7.0	8.0	6.5	11.0	1.0
31	8.0	7.0	5.0	8.0	9.0	6.0	5.0	5.0	6.0	6.0	5.0	6.0	7.0	5.0	3.0	3.0	3.0	--	5.0	7.0	6.0	5.0	3.0	3.0	5.5	9.0	3.0
Avg	4.3	4.6	3.9	4.1	4.0	3.7	4.0	4.2	3.1	1.7	1.1	1.3	1.5	0.9	1.0	1.5	1.7	2.1	3.0	3.9	4.3	4.2	4.0	4.3	3.0	--	--
Max	13.0	13.0	17.0	19.0	15.0	16.0	13.0	13.0	11.0	7.0	8.0	12.0	13.0	9.0	6.0	8.0	10.0	13.0	13.0	16.0	13.0	13.0	13.0	14.0	--	19.0	--
Min	0.0	1.0	-1.0	-1.0	0.0	-2.0	-1.0	0.0	-2.0	-4.0	-5.0	-4.0	-4.0	-3.0	-4.0	-4.0	-5.0	-3.0	-1.0	-1.0	-1.0	0.0	-2.0	-1.0	--	--	-5.0

-- 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: Jan 2014

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	0.1	--	0.1	0.5	0.5	0.2	0.3	0.7	0.9	1.1	0.5	0.4	0.7	1.2	0.7	0.5	0.5	0.5	0.5	0.0	0.2	0.4	0.5	0.9	0.5	1.2	0.0
2	0.8	--	0.5	0.7	0.4	0.4	1.1	1.6	2.3	2.1	1.1	0.8	0.6	0.6	0.3	0.5	0.8	0.5	0.7	0.5	0.5	0.4	0.3	0.9	0.8	2.3	0.3
3	0.6	--	0.8	1.1	0.9	1.0	0.7	0.8	1.4	1.8	1.9	1.8	2.1	0.8	0.2	0.4	0.4	1.1	0.9	0.8	0.9	1.0	0.6	0.4	1.0	2.1	0.2
4	0.6	--	1.3	1.4	1.2	1.5	2.0	2.3	2.8	2.8	2.3	1.3	0.7	0.4	0.4	0.2	0.2	0.2	0.3	0.3	0.5	0.4	-0.2	0.4	1.0	2.8	-0.2
5	1.5	--	-0.5	-0.5	-0.5	-0.5	0.0	0.0	-0.1	-0.2	0.4	1.5	2.2	0.8	-0.2	-0.3	0.1	0.8	1.0	0.6	0.7	0.5	0.7	0.4	0.4	2.2	-0.5
6	0.8	--	-0.4	-0.5	-0.6	-0.4	-0.5	0.3	0.4	1.0	1.6	0.4	0.1	0.2	0.1	0.3	0.4	0.6	2.1	1.6	1.3	1.3	0.7	0.9	0.5	2.1	-0.6
7	0.9	--	0.7	1.1	0.6	0.9	0.6	0.5	1.0	1.2	1.3	1.2	0.8	1.3	0.5	1.3	3.4	3.4	3.0	2.3	1.4	0.7	0.8	0.7	1.3	3.4	0.5
8	1.1	--	0.9	0.8	0.5	1.4	5.2	3.4	1.9	1.8	1.1	1.4	0.9	0.8	1.1	0.8	1.2	1.4	1.3	2.3	1.3	0.9	0.6	0.4	1.4	5.2	0.4
9	0.3	--	-0.3	-0.4	-0.3	-0.2	0.4	2.7	1.5	1.4	2.1	0.3	0.8	0.9	0.4	0.5	0.3	0.4	0.5	0.6	1.3	0.2	0.2	0.2	0.6	2.7	-0.4
10	3.3	--	0.4	1.5	1.5	1.4	0.9	0.9	2.0	4.1	3.8	4.4	-1.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.2	1.3	3.3	3.2	3.0	3.1	0.6	-0.7	-0.4	-0.8	--	--	--
16	-1.1	--	-1.1	-0.8	-0.6	-0.2	-0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	-1.1	--	-1.1	-1.0	-1.1	-1.2	-1.3	-1.1	-0.8	-0.6	0.2	1.6	0.6	-0.2	-0.6	-0.5	-0.1	0.3	2.3	0.8	1.0	0.2	0.7	2.2	0.0	2.3	-1.3
18	-0.1	--	-1.0	-0.8	-0.4	0.3	0.1	0.7	1.1	0.5	0.3	0.6	0.6	0.1	0.0	-0.2	-0.2	0.3	-0.2	-0.1	0.2	-0.2	-0.4	-0.6	0.0	1.1	-1.0
19	-0.2	--	0.1	0.4	0.3	0.3	0.0	10.0	9.9	0.6	1.1	1.4	0.8	0.0	0.2	0.3	0.3	1.2	0.3	-0.3	-0.6	-0.8	-0.7	-0.7	1.0	10.0	-0.8
20	-0.3	--	0.6	-0.1	-0.2	-0.4	0.4	4.2	2.7	0.5	0.2	1.2	0.8	0.1	-0.3	-0.4	0.6	2.4	2.7	1.5	0.2	-0.2	0.5	-0.5	0.7	4.2	-0.5
21	-1.1	--	-0.7	-0.2	0.0	0.4	2.2	0.8	--	--	--	1.0	0.9	1.1	0.9	0.7	0.2	1.0	0.9	0.6	0.8	2.1	2.8	2.1	0.8	2.8	-1.1
22	1.5	--	0.9	1.0	1.0	1.2	1.4	1.5	2.0	2.6	2.9	2.1	--	--	--	--	1.2	1.8	2.2	2.4	3.0	4.4	3.9	6.4	2.3	6.4	0.9
23	4.9	--	3.8	3.8	2.8	1.9	1.3	3.9	4.9	4.7	3.8	5.6	6.2	3.2	2.7	2.0	0.6	1.8	1.2	1.5	0.7	1.4	1.6	1.1	2.8	6.2	0.6
24	1.1	--	0.8	0.8	0.7	0.7	0.6	0.9	1.0	1.4	2.0	0.8	1.3	1.3	1.1	1.3	1.8	2.4	2.7	2.5	1.7	1.7	1.8	1.5	1.4	2.7	0.6
25	1.7	--	2.0	1.9	1.5	3.9	2.6	3.1	3.6	3.4	1.7	1.6	1.7	1.5	1.1	0.9	0.8	0.7	0.9	1.3	2.2	2.7	2.6	2.5	2.0	3.9	0.7
26	2.8	--	4.5	3.1	3.3	2.7	1.6	1.9	1.8	1.8	1.8	2.1	1.5	1.2	0.9	0.7	0.6	0.9	1.3	1.0	0.7	0.8	2.1	4.5	1.9	4.5	0.6
27	3.5	--	1.3	2.7	1.7	1.9	0.7	2.8	5.1	5.1	3.9	1.4	0.8	0.6	0.6	0.6	1.2	3.0	4.9	5.7	4.6	4.0	3.6	2.6	2.7	5.7	0.6
28	2.1	--	1.3	0.9	0.9	0.6	1.1	0.7	2.6	3.3	2.5	2.7	2.2	0.9	0.6	0.6	1.0	2.0	3.2	3.3	2.9	2.1	0.6	0.6	1.7	3.3	0.6
29	0.6	--	0.3	0.1	0.3	1.4	1.5	1.4	1.2	1.1	3.3	3.3	1.2	0.5	0.6	0.5	0.2	0.5	0.7	0.6	1.5	0.4	-0.2	-0.2	0.9	3.3	-0.2
30	-0.2	--	2.7	0.7	1.5	2.1	2.3	3.1	4.6	4.9	3.2	0.2	0.1	0.1	0.4	0.0	0.6	0.6	0.1	-0.2	0.1	0.1	-0.2	-0.5	1.1	4.9	-0.5
31	-0.4	--	-0.4	-0.4	-0.2	-0.3	-0.3	-0.2	-0.2	-0.3	--	--	-2.9	-2.7	-3.0	-2.9	-2.9	-3.0	-2.1	-1.3	-2.0	-2.6	-2.2	-2.5	-1.6	-0.2	-3.0
Avg	0.9	--	0.7	0.7	0.6	0.8	0.9	1.9	2.2	1.9	1.9	1.6	1.0	0.6	0.4	0.4	0.7	1.1	1.4	1.3	1.0	0.8	0.8	0.9	1.1	--	--
Max	4.9	--	4.5	3.8	3.3	3.9	5.2	10.0	9.9	5.1	3.9	5.6	6.2	3.2	2.7	2.0	3.4	3.4	4.9	5.7	4.6	4.4	3.9	6.4	--	10.0	--
Min	-1.1	--	-1.1	-1.0	-1.1	-1.2	-1.3	-1.1	-0.8	-0.6	0.2	0.2	-2.9	-2.7	-3.0	-2.9	-2.9	-3.0	-2.1	-1.3	-2.0	-2.6	-2.2	-2.5	--	--	-3.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: Feb 2014

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	-2.8	--	-3.0	-3.1	-3.0	-2.7	-2.7	-2.6	-2.3	-2.7	-2.5	-2.4	-2.8	-2.7	-2.6	-2.1	-1.7	-1.7	-2.2	-2.3	-2.4	-2.6	-2.7	-2.4	-2.5	-1.7	-3.1
2	-1.9	--	-2.9	-2.9	-3.0	-2.9	-2.5	-2.6	-2.7	-2.5	-2.3	-1.5	-1.8	-2.5	-3.0	-3.1	-3.4	-3.2	-3.4	-3.4	-3.4	-3.0	-2.6	-3.1	-2.8	-1.5	-3.4
3	-2.9	--	-2.6	-2.8	-2.1	-1.0	-2.1	-0.8	0.1	-1.7	-1.9	-2.4	-2.5	-2.4	-1.6	-2.7	-2.6	-2.0	-2.6	-1.3	-1.0	-2.2	-2.4	-2.5	-2.0	0.1	-2.9
4	-2.6	--	-2.8	-2.8	-0.6	1.5	0.3	6.5	1.0	-1.1	-2.0	-1.8	-2.5	-2.5	-2.3	-2.4	-2.4	-2.2	-2.5	-2.2	-2.2	-2.1	-2.2	-2.5	-1.4	6.5	-2.8
5	-2.1	--	-2.4	-2.2	1.3	4.1	5.8	7.1	4.9	0.8	0.5	2.2	-1.8	-1.5	-2.3	-2.7	-1.4	-1.3	-2.0	-2.0	-0.4	-0.3	-1.5	-1.6	0.1	7.1	-2.7
6	-0.3	--	-1.6	-1.8	-1.3	-0.1	1.9	1.5	0.7	-0.7	-0.8	-1.8	-2.2	-0.9	-0.4	-0.2	-2.4	-3.1	-2.7	-2.9	-2.7	-0.9	-0.6	1.7	-0.9	1.9	-3.1
7	0.9	--	0.0	-0.9	0.5	1.6	-1.9	-1.8	-1.4	-1.4	-1.8	-1.8	-1.8	-2.0	-2.2	-2.4	-2.6	-2.7	-2.7	-2.7	-1.1	-0.4	-1.0	-2.3	-1.4	1.6	-2.7
8	-2.5	--	-2.8	-2.6	-2.8	-3.1	-2.0	-1.9	-2.1	-1.2	-1.8	-2.0	-2.1	-2.7	-2.7	-2.8	-3.0	-3.0	-2.7	-2.5	-1.6	-2.1	0.1	0.1	-2.2	0.1	-3.1
9	0.5	--	-0.7	-2.1	-2.4	-3.0	-2.7	-2.7	-1.3	--	--	--	--	-2.3	-2.5	-2.8	-2.9	-3.2	-3.0	-2.9	-2.4	-1.9	-1.9	-1.8	-2.2	0.5	-3.2
10	-1.6	--	-1.5	-2.0	-1.6	-2.8	-3.3	1.1	2.4	--	-2.5	-3.0	-3.1	-3.4	-3.4	-3.3	-2.9	-2.7	-2.3	-0.9	-0.9	0.0	-1.0	-1.0	-1.8	2.4	-3.4
11	0.0	--	1.1	-1.1	-3.7	-3.8	-3.9	-3.7	-3.5	-3.1	-3.1	-3.1	-3.5	-0.7	-0.6	-0.7	0.2	0.6	0.8	0.8	1.4	1.9	2.1	1.3	-1.1	2.1	-3.9
12	0.4	--	0.0	1.8	2.0	1.5	2.6	2.8	1.2	0.2	0.3	1.2	0.4	0.0	-0.4	-0.6	-0.1	-0.1	-0.2	-0.2	-0.3	-0.2	0.9	-0.1	0.6	2.8	-0.6
13	-0.3	--	-0.7	-1.0	-0.9	-0.7	-0.9	-0.4	1.7	2.0	0.7	1.4	1.0	0.8	0.1	-0.3	-0.5	-0.5	0.0	1.0	1.1	2.4	4.0	0.6	0.5	4.0	-1.0
14	0.1	--	-0.2	-0.8	-1.0	-0.5	-0.2	0.1	0.6	1.6	3.1	1.0	0.4	0.4	0.0	-0.4	-0.5	-0.1	0.3	0.2	0.5	0.5	0.0	-0.7	0.2	3.1	-1.0
15	0.8	--	-1.0	-1.4	-0.7	-0.4	-0.6	-0.9	0.3	2.5	1.0	0.6	0.2	-0.3	-0.7	-0.9	-1.1	-1.0	-0.4	0.4	0.5	-0.9	-1.0	-0.8	-0.3	2.5	-1.4
16	0.2	--	4.4	0.9	0.1	0.1	-0.2	2.0	-0.1	1.4	-1.0	-0.8	-0.6	-0.8	-1.0	-1.0	-0.9	-0.7	-0.5	-0.6	-0.1	-0.6	-0.8	-1.2	-0.1	4.4	-1.2
17	-0.5	--	0.3	2.5	1.3	1.7	1.5	1.5	0.7	-0.3	0.4	-0.1	-0.1	-0.7	-1.2	-1.2	-1.2	-1.2	-1.0	-0.5	0.0	-0.4	-0.9	-0.8	0.0	2.5	-1.2
18	-0.9	--	-0.5	-0.2	0.4	-0.1	0.0	-0.1	2.4	2.1	0.2	0.2	1.7	-1.5	-7.3	-0.4	-3.7	--	--	--	-1.8	-3.1	-3.4	-3.3	-1.0	2.4	-7.3
19	-2.9	--	-1.7	-1.1	-2.0	-1.9	-0.8	--	--	--	--	2.8	1.5	0.7	0.3	0.9	1.0	0.6	0.6	1.2	1.1	0.7	0.4	0.5	0.1	2.8	-2.9
20	--	0.3	0.4	0.1	0.2	-0.2	-0.3	-0.1	0.2	0.2	0.2	0.3	0.6	1.0	0.7	-0.1	-0.2	0.1	0.4	0.5	1.7	1.1	0.5	0.5	0.4	1.7	-0.3
21	--	0.3	0.1	-0.1	0.0	0.1	1.3	2.1	3.4	4.3	1.6	1.3	1.7	0.7	0.4	0.4	0.2	0.2	0.3	0.9	0.9	0.3	0.5	0.7	0.9	4.3	-0.1
22	--	0.5	0.7	1.4	2.6	1.2	4.3	5.5	7.5	6.6	2.4	1.2	0.7	0.2	0.2	0.3	0.4	0.6	1.0	0.9	0.8	2.1	3.7	5.5	2.2	7.5	0.2
23	--	0.8	0.4	0.2	0.1	-0.1	0.7	1.4	4.1	2.5	0.8	3.3	1.2	0.1	0.1	-0.1	0.0	-0.1	0.2	0.8	0.2	-0.1	-0.3	-0.2	0.7	4.1	-0.3
24	--	0.3	0.3	-0.3	-0.1	0.8	3.0	2.4	1.6	0.9	1.8	0.5	0.8	1.3	0.1	0.1	0.2	0.2	0.3	0.2	1.8	2.6	0.8	1.7	0.9	3.0	-0.3
25	--	0.5	1.4	1.2	0.8	0.7	2.3	0.9	3.3	5.1	6.7	2.9	3.1	2.0	1.4	1.3	1.9	1.7	2.6	3.5	3.8	3.3	3.5	4.0	2.5	6.7	0.5
26	--	3.4	3.4	5.1	3.5	5.4	5.9	6.4	7.1	4.2	4.3	3.9	3.5	2.1	1.0	0.9	0.5	0.5	0.8	1.4	1.5	1.0	1.0	1.3	3.0	7.1	0.5
27	--	1.4	2.8	3.4	2.6	3.3	5.6	6.5	3.7	1.3	1.3	1.0	0.8	0.7	0.6	0.5	0.5	0.2	0.1	0.2	0.3	0.3	0.6	1.0	1.7	6.5	0.1
28	--	0.7	0.6	1.0	0.7	3.2	2.4	7.5	2.5	1.4	1.2	2.6	0.7	0.7	0.3	0.2	0.0	-0.1	-0.3	-0.3	-0.2	-0.2	-0.2	-0.1	1.1	7.5	-0.3
Avg	-1.0	0.9	-0.3	-0.4	-0.3	0.1	0.5	1.4	1.3	0.9	0.3	0.2	-0.2	-0.6	-1.0	-0.9	-1.0	-0.9	-0.8	-0.5	-0.2	-0.2	-0.2	-0.2	-0.2	--	--
Max	0.9	3.4	4.4	5.1	3.5	5.4	5.9	7.5	7.5	6.6	6.7	3.9	3.5	2.1	1.4	1.3	1.9	1.7	2.6	3.5	3.8	3.3	4.0	5.5	--	7.5	--
Min	-2.9	0.3	-3.0	-3.1	-3.7	-3.8	-3.9	-3.7	-3.5	-3.1	-3.1	-3.1	-3.5	-3.4	-7.3	-3.3	-3.7	-3.2	-3.4	-3.4	-3.4	-3.1	-3.4	-3.3	--	--	-7.3

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: Mar 2014

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	--	-0.1	-0.2	-0.2	0.1	0.1	0.0	0.0	-0.2	-0.3	-0.3	-0.2	-0.2	-0.2	0.3	0.2	0.4	0.4	0.1	0.1	0.1	0.1	-0.1	-0.1	0.0	0.4	-0.3
2	--	-0.2	0.8	0.7	0.2	0.9	1.7	0.4	0.1	0.5	0.6	0.4	1.3	1.1	0.8	0.5	0.2	0.1	0.2	0.5	0.8	1.8	3.3	1.3	0.8	3.3	-0.2
3	--	1.9	1.4	1.9	4.3	2.8	2.3	3.1	2.0	1.3	2.7	3.5	3.1	1.9	1.7	1.5	1.2	1.0	1.2	1.8	1.9	2.2	1.4	1.2	2.1	4.3	1.0
4	--	1.0	0.7	1.0	1.6	3.7	3.2	4.1	4.7	4.7	2.6	3.1	2.7	2.8	2.1	1.7	1.2	1.5	2.6	3.3	3.5	4.7	5.1	5.4	2.9	5.4	0.7
5	--	4.9	3.9	4.5	4.1	3.8	2.8	3.2	3.4	2.4	1.3	1.4	1.6	1.7	1.5	1.3	0.8	0.5	0.3	1.3	0.9	0.7	1.1	2.7	2.2	4.9	0.3
6	2.1	--	0.6	0.9	1.4	1.5	2.2	1.4	1.8	2.7	3.7	1.1	1.0	1.0	0.8	0.6	0.6	1.4	2.0	2.1	3.4	2.9	1.7	0.0	1.6	3.7	0.0
7	0.2	--	0.3	0.8	0.8	0.7	0.9	1.6	5.5	3.3	1.6	--	--	-0.6	-0.9	-0.7	-0.9	-0.7	0.8	3.1	3.0	2.5	2.8	4.7	1.4	5.5	-0.9
8	2.8	--	0.4	-1.2	-1.6	-1.8	-1.8	-1.4	-1.2	-1.2	-1.3	-1.3	-1.3	-1.5	-1.6	-1.7	-1.7	-1.9	-2.0	-1.8	-1.0	-1.6	-1.5	-1.8	-1.3	2.8	-2.0
9	-1.4	--	-0.5	-1.3	-1.3	-0.8	-0.5	3.2	14.5	-1.5	-1.6	-1.4	-1.6	-1.5	-1.4	-1.7	-1.8	-1.7	-1.6	-0.3	-1.0	-1.5	-0.9	-0.6	-0.4	14.5	-1.8
10	--	-1.6	0.0	0.0	0.2	0.8	-0.8	-0.4	-0.1	0.4	-0.9	-1.2	-0.9	-1.0	-1.2	-1.4	-1.6	-1.7	-1.2	-0.5	-0.7	-0.6	-0.7	-0.3	-0.7	0.8	-1.7
11	--	-0.9	-0.3	-1.4	-1.4	-1.0	-1.0	-0.4	-0.7	-0.5	-0.6	-0.9	-0.9	-0.9	-1.1	-0.8	-1.2	-1.1	-1.0	-0.6	-0.3	2.3	1.4	1.0	-0.5	2.3	-1.4
12	--	0.3	-0.9	-1.8	-1.6	-0.8	-0.4	-1.2	-0.8	0.1	1.0	-0.9	-1.1	-1.5	-1.5	-1.6	-1.4	-1.9	-1.8	-1.4	-0.2	-0.1	-0.6	-1.3	-0.9	1.0	-1.9
13	--	-1.2	-1.0	-0.8	-0.7	-0.6	-0.4	-0.1	0.5	0.2	-1.0	-1.4	-0.8	-0.5	-1.5	-1.6	-1.6	0.5	-1.2	-0.9	-1.7	0.1	-1.1	-1.2	-0.8	0.5	-1.7
14	--	1.1	1.3	2.3	4.4	6.2	4.5	5.8	7.5	0.5	-1.3	-1.2	-1.0	-1.1	-0.8	-0.8	-0.7	-0.6	-0.5	-0.4	0.2	0.5	0.8	-0.2	1.1	7.5	-1.3
15	--	-1.4	-1.4	-1.6	-1.6	-0.8	-1.3	-1.2	-0.8	-0.2	-0.4	-0.8	-1.6	-1.5	-1.7	-1.8	-2.1	-2.1	-2.2	-2.2	-2.2	-2.3	-2.1	-2.2	-1.5	-0.2	-2.3
16	--	-1.9	-1.5	-1.0	-1.6	-1.7	-1.1	-0.6	-1.2	1.8	-0.6	1.6	-0.8	-1.4	-1.8	-2.0	-2.0	-2.0	-1.5	-1.4	-0.3	2.8	-1.2	-0.8	-0.9	2.8	-2.0
17	--	-0.7	-0.2	0.2	-0.3	0.5	-0.3	2.3	4.6	-0.1	-0.9	-1.1	-1.5	-1.3	-1.4	-1.6	-1.9	-1.9	-1.7	-1.6	-1.2	-1.7	-1.6	-1.6	-0.6	4.6	-1.9
18	--	-1.9	-1.7	-1.7	-0.9	-1.1	-1.0	0.8	-1.4	-0.7	-1.2	-1.1	-1.5	-1.6	-1.7	-1.6	-1.2	-1.1	0.9	1.7	0.9	1.3	1.3	1.5	-0.6	1.7	-1.9
19	--	0.1	0.3	-0.5	0.8	-0.3	1.8	1.0	-1.3	0.3	1.1	1.2	0.0	-1.0	-1.6	-1.6	-1.8	-0.8	0.1	1.4	1.0	-1.3	-1.8	-1.7	-0.2	1.8	-1.8
20	--	-1.7	-2.0	-2.1	-1.6	-0.1	0.4	0.2	1.0	0.1	-1.0	-1.4	-1.4	-1.6	-1.7	-1.8	-1.9	-1.9	-1.9	-1.7	-1.2	-1.8	-1.2	-1.4	-1.2	1.0	-2.1
21	--	-1.5	-1.0	-1.4	-1.4	-1.6	0.2	1.2	3.2	0.3	-0.8	-1.0	-1.6	-1.8	-1.7	-1.3	-1.8	-1.9	-1.9	-0.8	-0.8	0.3	0.4	2.7	-0.6	3.2	-1.9
22	--	-1.7	-1.7	-2.0	-1.4	-1.3	1.5	-0.6	1.3	-1.9	-1.9	-2.1	-2.0	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.1	-1.3	-1.8	-1.7	-1.8	-1.4	1.5	-2.1
23	--	-1.7	-1.7	-0.6	1.3	-0.5	-0.1	0.2	-0.1	-0.9	-0.8	-1.2	-1.5	-1.4	-1.6	-1.8	-2.0	-1.9	-1.7	-1.5	-1.4	-0.4	-1.1	0.3	-1.0	1.3	-2.0
24	--	-1.2	-1.5	-1.8	-1.6	-1.8	0.0	0.2	0.3	-0.3	-0.8	-1.0	-0.7	-0.7	-0.8	-1.1	-1.6	-1.6	-1.7	-1.7	-1.6	-0.9	-1.6	-1.3	-1.1	0.3	-1.8
25	--	-1.5	-1.4	-1.1	-1.1	-0.1	0.2	0.7	-0.4	-0.5	-1.4	-1.1	-1.1	-1.6	-1.9	-1.9	-2.1	-1.9	-1.9	-2.0	-0.5	0.7	1.2	1.8	-0.8	1.8	-2.1
26	--	0.8	-0.5	-1.0	-1.0	-1.0	0.9	-1.0	-1.5	-1.2	-1.0	-1.1	-1.2	-1.4	-1.4	-1.3	-1.4	-1.5	-1.7	-1.5	-1.5	-1.4	-1.3	-1.5	-1.1	0.9	-1.7
27	--	-1.7	-1.8	-1.8	-1.8	-1.8	-1.6	-0.7	-1.3	-0.6	-1.0	-1.0	-1.2	-1.3	0.1	-1.3	-1.4	-1.6	-1.3	-1.5	-1.4	-1.7	-1.6	-1.6	-1.3	0.1	-1.8
28	--	-0.9	-1.4	-1.5	-1.4	1.2	0.6	3.3	3.6	0.1	-0.6	-0.1	-0.8	-1.2	-1.0	-1.5	-1.6	-1.0	0.3	2.5	3.8	3.7	3.9	3.0	0.6	3.9	-1.6
29	--	0.4	-0.4	-0.6	1.3	0.6	0.2	0.6	-0.3	-0.4	-0.6	-0.6	-0.8	-0.7	-1.1	-1.4	-1.9	-2.0	-1.7	-1.3	-0.9	-1.0	-0.9	-1.3	-0.6	1.3	-2.0
30	--	-0.7	-0.5	-0.3	0.0	2.3	-0.3	-0.1	3.7	-0.5	-0.9	-1.2	-1.3	-1.2	-1.6	-1.6	-1.8	-1.9	-2.0	-1.7	-1.8	-1.6	-1.2	-1.5	-0.8	3.7	-2.0
31	--	-1.7	-1.0	-0.1	0.5	0.2	-0.7	1.2	2.9	-0.4	-1.4	-1.7	-1.9	-2.0	-1.9	-1.9	-2.0	-1.9	-2.0	-1.9	-1.9	-1.7	-0.9	-0.1	-1.0	2.9	-2.0
Avg	0.9	-0.5	-0.4	-0.4	0.0	0.3	0.4	0.9	1.6	0.2	-0.3	-0.4	-0.6	-0.8	-0.9	-1.0	-1.2	-1.1	-0.8	-0.3	-0.1	0.2	0.0	0.1	-0.2	--	--
Max	2.8	4.9	3.9	4.5	4.4	6.2	4.5	5.8	14.5	4.7	3.7	3.5	3.1	2.8	2.1	1.7	1.2	1.5	2.6	3.3	3.8	4.7	5.1	5.4	--	14.5	--
Min	-1.4	-1.9	-2.0	-2.1	-1.8	-1.8	-1.8	-1.4	-1.5	-1.9	-1.9	-2.1	-2.0	-2.0	-1.9	-2.0	-2.1	-2.1	-2.2	-2.2	-2.2	-2.3	-2.1	-2.2	--	--	-2.3

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Jan 2014

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	--	2.6	1.9	1.7	1.8	1.6	1.6	1.8	1.5	1.4	1.3	1.2	1.4	1.8	1.6	1.8	1.9	1.6	1.2	1.2	1.3	1.2	1.3	1.6	1.6	2.6	1.2
2	--	2.0	1.4	1.4	1.7	2.4	2.2	3.9	4.6	2.6	1.2	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.2	1.2	1.3	1.2	1.3	1.7	4.6	1.1
3	--	1.3	1.3	1.3	1.3	1.3	1.5	1.6	1.3	1.5	1.7	1.3	1.3	1.3	1.2	1.3	1.6	1.5	1.6	1.6	1.6	1.5	1.7	1.8	1.4	1.8	1.2
4	--	1.9	1.8	1.8	1.8	1.8	1.9	1.7	1.7	1.7	1.7	2.1	5.3	2.9	2.0	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.7	2.0	5.3	1.5
5	--	1.4	1.4	1.3	1.3	1.3	1.3	1.2	1.8	2.2	3.1	3.5	3.8	1.9	1.2	1.3	1.3	1.2	1.2	1.1	1.3	1.3	1.3	1.5	1.7	3.8	1.1
6	--	1.4	1.3	1.3	1.1	1.3	1.6	3.5	2.9	3.3	6.5	2.9	1.9	1.5	1.4	1.4	1.5	1.4	2.9	6.7	6.4	5.3	6.1	6.4	3.0	6.7	1.1
7	--	3.8	3.1	2.8	1.8	2.2	1.6	1.5	1.9	1.6	2.1	1.3	1.2	1.2	1.3	1.3	1.5	1.6	2.1	1.7	1.4	1.4	1.5	2.0	1.8	3.8	1.2
8	--	3.8	5.2	5.9	5.2	4.2	4.4	4.5	3.8	3.9	2.8	2.7	4.3	4.7	7.1	5.3	4.3	3.9	4.3	3.8	3.7	3.3	2.9	2.6	4.2	7.1	2.6
9	--	1.7	1.6	1.5	1.6	1.5	1.4	1.5	5.9	8.4	5.4	3.1	2.1	1.9	2.0	2.0	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.7	2.4	8.4	1.4
10	--	1.5	1.8	2.2	2.1	2.0	1.8	1.7	1.6	1.6	2.0	6.7	2.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.6	0.7	0.6	0.5	0.6	1.1	0.7	--	--	--
16	--	0.5	0.4	0.4	0.4	0.5	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	--	-0.9	-1.1	-1.0	-0.8	-0.6	-1.1	-1.1	-1.0	-1.1	-0.5	2.6	0.2	-0.7	-1.3	-1.2	-1.0	-0.7	-1.0	-1.0	-0.9	-0.8	1.3	1.0	-0.5	2.6	-1.3
18	--	-1.0	-1.0	-1.0	-1.1	-1.1	-0.9	-0.9	-0.8	-1.0	-0.8	0.4	1.1	0.3	-0.2	0.0	-0.2	-0.8	-1.0	-1.1	-1.1	-1.1	-1.1	-0.1	-0.6	1.1	-1.1
19	--	2.5	1.2	1.4	0.3	0.5	2.2	1.6	-0.3	3.2	0.8	-0.8	-1.2	-1.2	-1.1	-1.2	-1.2	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-0.8	0.0	3.2	-1.2
20	--	-0.2	0.8	0.5	0.3	-0.4	-0.7	-0.6	-0.6	-0.9	-1.0	-0.8	-0.5	-0.3	-0.5	-0.2	0.2	0.5	0.3	0.0	-0.4	-0.9	-1.2	-1.1	-0.3	0.8	-1.2
21	--	-1.2	-1.1	-1.0	0.5	4.5	3.0	-0.2	-1.6	-1.2	-1.2	-1.0	-0.6	-1.1	-1.2	-1.2	-1.1	-1.1	-1.1	-1.1	-1.2	-1.1	-0.8	-0.9	-0.6	4.5	-1.6
22	--	-0.8	-0.9	-1.1	-0.8	-0.6	-0.4	-0.1	0.6	2.7	5.5	2.2	0.3	-0.2	-0.4	--	--	--	--	0.5	0.4	0.8	-0.1	0.4	0.4	5.5	-1.1
23	--	0.3	0.4	0.3	0.2	0.1	0.1	0.2	0.2	3.1	1.4	1.9	2.4	2.1	2.4	0.9	0.5	0.4	0.4	0.3	0.2	0.4	0.1	0.1	0.8	3.1	0.1
24	--	0.0	0.0	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	0.0	-0.1	-0.6	0.2	0.0	-0.1	-0.1	-0.1	0.0	1.1	0.5	-0.1	-0.2	-0.1	0.0	0.0	1.1	-0.6
25	--	1.1	2.5	2.2	2.0	1.5	4.5	3.9	4.6	2.6	1.5	1.0	0.5	0.4	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.0	0.2	0.1	1.3	4.6	0.0
26	--	0.4	0.5	0.2	0.3	0.2	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.4	0.2	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.5	0.0
27	--	0.0	-0.1	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.2	-0.2	-0.1	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.2
28	--	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	0.0	2.6	2.4	1.8	1.9	1.6	0.7	0.4	0.3	0.1	-0.1	0.0	0.5	2.6	-0.2
29	--	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	0.4	0.5	0.1	0.1	0.5	0.6	0.3	0.2	0.3	0.3	0.2	0.1	0.0	-0.1	0.1	0.6	-0.2
30	--	-0.1	-0.1	-0.1	-0.1	-0.1	1.0	5.1	4.5	2.3	0.9	0.2	0.2	0.3	0.4	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	5.1	-0.1
31	--	0.5	0.3	0.3	0.1	-0.1	0.1	0.0	0.0	0.0	0.0	--	-0.1	0.6	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.3	0.4	0.2	0.6	-0.1
Avg	--	0.9	0.9	0.8	0.8	0.9	1.0	1.2	1.3	1.5	1.4	1.3	1.1	0.9	0.9	0.8	0.7	0.7	0.7	0.8	0.7	0.6	0.7	0.8	0.9	--	--
Max	--	3.8	5.2	5.9	5.2	4.5	4.5	5.1	5.9	8.4	6.5	6.7	5.3	4.7	7.1	5.3	4.3	3.9	4.3	6.7	6.4	5.3	6.1	6.4	--	8.4	--
Min	--	-1.2	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.6	-1.2	-1.2	-1.0	-1.2	-1.2	-1.3	-1.2	-1.2	-1.1	-1.1	-1.1	-1.2	-1.1	-1.2	-1.1	--	--	-1.6

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Feb 2014

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	--	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.1
2	--	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	1.0	1.7	4.1	2.5	0.6	0.4	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.3	0.6	4.1	0.2
3	--	0.3	0.3	0.2	0.3	0.2	2.7	4.8	8.9	22.6	6.5	2.1	1.0	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	2.3	22.6	0.2
4	--	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.6	0.7	0.5	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.2	0.2	0.3	0.2	0.3	0.7	0.1
5	--	0.3	0.2	1.9	6.2	24.6	22.5	6.1	5.3	5.6	3.0	2.4	0.7	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.6	1.7	3.2	3.8	24.6	0.2
6	--	4.7	1.8	1.3	2.5	7.6	10.4	13.6	7.3	1.1	0.6	0.5	0.4	0.5	1.0	1.1	1.4	2.2	2.7	2.6	2.3	1.6	1.0	0.9	3.0	13.6	0.4
7	--	1.1	1.0	1.0	1.0	1.0	0.9	1.1	0.7	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	1.1	0.2
8	--	0.3	0.3	0.2	0.2	0.2	0.2	0.3	2.5	4.5	1.2	0.6	0.5	0.3	0.4	0.6	0.4	0.4	0.7	0.7	0.8	0.8	0.7	0.7	0.7	4.5	0.2
9	--	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.2	--	--	--	--	4.6	6.1	4.5	4.5	2.5	1.6	2.1	1.8	1.2	1.1	1.0	1.7	6.1	0.2
10	--	0.6	0.6	0.6	0.6	0.4	0.6	0.0	0.5	--	2.2	3.1	1.1	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.7	0.7	0.6	0.8	3.1	0.0
11	--	0.7	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.4	0.8	0.5	0.8	0.4
12	--	0.5	0.4	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.6	1.6	1.8	1.0	0.6	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.7	1.8	0.4
13	--	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.5	3.1	2.5	1.7	2.3	2.4	2.7	1.2	1.0	1.2	0.9	0.8	0.7	0.6	1.1	3.1	0.4
14	--	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	1.0	1.3	1.3	1.3	1.2	1.3	1.5	1.6	1.5	1.3	0.9	0.7	0.9	1.6	0.5
15	--	0.4	0.6	0.5	0.5	0.6	0.7	0.7	0.7	5.1	8.5	4.5	2.6	2.3	2.2	1.7	1.1	0.9	1.5	1.9	1.5	0.9	0.8	1.0	1.8	8.5	0.4
16	--	0.7	0.8	0.8	0.8	0.8	0.9	1.0	1.5	1.8	1.3	1.3	1.8	1.3	1.2	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.7	1.0	1.8	0.7
17	--	0.5	0.7	0.9	1.0	0.8	0.7	0.7	0.6	0.7	1.3	1.5	0.9	0.8	0.9	1.5	1.3	0.7	0.6	0.8	0.8	0.8	0.8	0.6	0.9	1.5	0.5
18	--	0.7	0.8	0.9	0.8	0.7	0.8	0.8	0.6	0.7	0.6	0.7	1.1	--	--	--	1.1	1.2	1.0	1.1	1.1	0.9	1.0	1.0	0.9	1.2	0.6
19	--	0.9	0.8	0.9	0.9	0.8	0.8	1.0	1.2	2.1	1.7	--	--	--	--	0.9	0.9	0.8	0.8	0.9	0.7	0.7	0.7	0.8	1.0	2.1	0.7
20	--	0.6	0.7	0.7	0.0	0.6	0.6	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.0
21	--	0.6	0.6	0.6	0.8	0.6	0.6	0.6	0.6	1.0	2.8	2.1	2.4	2.0	2.4	1.6	1.3	1.5	1.9	2.0	1.8	1.6	1.6	1.7	1.4	2.8	0.6
22	--	1.3	1.0	1.0	1.0	0.9	0.9	1.0	1.2	3.5	1.5	1.0	1.2	1.8	1.9	1.7	1.5	1.4	1.2	1.1	1.3	1.1	1.1	1.2	1.3	3.5	0.9
23	--	1.0	1.0	0.9	0.9	0.7	0.8	1.6	5.6	6.4	3.2	2.0	1.4	2.5	1.3	0.7	0.7	0.6	0.7	0.7	0.6	0.7	0.7	0.6	1.5	6.4	0.6
24	--	0.6	0.6	0.7	0.5	0.6	0.7	0.9	1.6	3.4	2.8	1.0	1.3	1.8	1.7	1.6	1.9	1.4	1.1	1.3	1.0	1.0	1.0	1.1	1.3	3.4	0.5
25	--	1.3	1.1	1.1	1.2	1.2	1.2	1.4	1.2	2.3	4.1	4.4	6.3	5.5	7.6	5.6	1.7	1.0	1.0	0.8	0.9	1.0	0.8	0.7	2.3	7.6	0.7
26	--	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.9	0.9	2.0	2.3	3.1	1.7	0.9	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1	3.1	0.7
27	--	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.9	0.8	0.8	0.7	0.8	0.8	0.7	0.5	0.7	0.7	0.5	0.6	0.7	0.7	0.8	0.9	0.5
28	--	0.7	0.7	0.7	0.7	0.7	0.6	0.8	4.6	4.5	1.6	1.5	1.5	1.1	0.7	0.8	0.6	0.7	0.8	1.2	0.9	0.6	0.6	0.7	1.2	4.6	0.6
Avg	--	0.8	0.7	0.7	0.9	1.7	1.8	1.5	1.8	2.7	1.8	1.6	1.5	1.5	1.5	1.2	1.0	0.9	0.9	0.9	0.9	0.8	0.7	0.8	1.2	--	--
Max	--	4.7	1.8	1.9	6.2	24.6	22.5	13.6	8.9	22.6	8.5	4.5	6.3	5.5	7.6	5.6	4.5	2.5	2.7	2.6	2.3	1.6	1.7	3.2	--	24.6	--
Min	--	0.3	0.2	0.2	0.0	0.2	0.2	0.0	0.2	0.2	0.1	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	--	--	0.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Mar 2014

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	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.5	0.5	0.8	0.7	0.6	0.6	0.7	0.7	0.7	0.7	1.0	0.5
2	--	0.7	0.7	0.7	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.5
3	--	0.6	0.8	7.0	6.8	3.3	1.1	0.9	0.8	0.9	1.3	1.9	3.8	2.2	1.2	1.3	1.2	0.9	0.8	0.8	0.8	0.7	0.7	0.9	1.8	7.0	0.6
4	--	0.8	0.9	0.9	0.9	0.8	0.7	0.7	1.6	1.0	0.7	1.1	1.4	2.8	5.6	5.9	1.2	0.6	0.6	0.5	0.5	0.5	0.5	0.5	1.3	5.9	0.5
5	--	0.1	0.4	0.4	0.4	0.2	0.3	0.5	0.6	0.4	0.3	0.2	0.4	0.5	0.4	0.5	0.6	0.4	0.4	0.3	0.4	0.4	0.5	3.0	0.5	3.0	0.1
6	--	0.1	0.5	0.4	0.3	0.5	0.5	1.5	2.8	2.6	2.5	0.7	0.6	0.6	0.7	0.6	0.6	0.6	0.7	0.5	0.6	0.5	0.6	0.6	0.9	2.8	0.1
7	--	0.1	0.7	0.6	0.6	0.7	0.7	0.6	0.8	0.8	0.9	--	--	0.7	0.5	0.5	0.5	0.4	0.5	0.7	0.8	0.6	0.6	0.6	0.6	0.9	0.1
8	--	0.1	0.6	0.5	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.4	0.4	0.3	0.2	0.7	0.8	0.2	0.1	0.3	0.8	0.1
9	--	--	0.0	0.3	0.2	0.2	0.4	2.9	2.1	0.2	0.2	0.2	-0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2	--	0.4	2.9	-0.2
10	0.0	0.6	0.6	0.5	1.3	1.0	0.2	4.1	2.7	1.3	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	--	0.7	4.1	0.0
11	0.0	0.3	0.4	0.5	0.5	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.5	0.7	0.5	0.5	0.6	0.5	--	0.5	0.7	0.0
12	0.5	0.4	0.4	0.4	0.3	0.4	0.3	0.4	0.3	0.6	2.6	0.8	0.3	0.3	0.2	0.3	0.4	0.1	0.2	0.3	0.4	0.3	0.3	--	0.5	2.6	0.1
13	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.5	--	0.4	0.5	0.2
14	0.4	0.4	0.5	0.4	0.4	0.2	0.3	0.2	0.3	0.4	0.3	0.4	0.3	0.2	0.1	-0.1	-0.1	0.0	0.0	0.1	0.0	0.1	0.0	--	0.2	0.5	-0.1
15	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.0	-0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	-0.1	0.1	0.0	--	0.1	0.1	-0.1
16	0.0	0.0	0.1	0.1	0.0	0.0	0.6	1.1	0.5	1.3	1.4	0.6	0.2	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	--	0.3	1.4	-0.1
17	0.0	0.0	0.1	0.1	0.0	0.0	0.0	-0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	--	0.1	0.2	-0.1
18	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	--	0.1	0.2	0.0
19	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	-0.1	0.0	0.0	0.0	-0.1	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	--	0.0	0.1	-0.1
20	-0.1	-0.1	0.0	0.0	0.0	0.0	0.1	-0.1	-0.2	-0.1	0.0	-0.1	0.0	-0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.0	--	0.0	0.1	-0.2
21	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	--	0.0	0.1	0.0
22	-0.2	0.0	-0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	--	0.0	0.1	-0.2
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1	-0.1	-0.1	0.0	0.2	0.3	0.4	0.3	0.2	0.0	0.1	0.0	-0.1	0.0	--	0.0	0.4	-0.1
24	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	0.1	0.2	0.6	0.9	0.5	0.5	0.5	0.5	0.2	0.2	0.2	--	0.2	0.9	-0.1
25	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.6	0.7	0.5	0.6	0.6	0.4	0.3	0.3	0.2	0.2	0.3	1.2	0.7	--	0.4	1.2	0.2
26	0.0	0.4	0.3	0.4	0.9	1.7	1.9	0.6	0.5	0.6	0.3	0.3	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	--	0.5	1.9	0.0
27	0.3	0.3	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	-0.1	0.2	0.2	0.1	0.2	0.3	0.2	0.1	0.1	0.2	--	0.2	0.3	-0.1
28	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.0
29	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.3	0.5	0.5	0.5	0.3	0.4	0.2	0.1	0.4	0.4	0.5	0.4	0.4	0.3	0.5	0.0
30	0.3	0.3	0.3	0.1	0.3	0.4	0.4	0.5	1.2	1.2	3.0	1.2	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.5	3.0	0.1
31	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.8	0.8	0.3	0.3	0.2	0.2	0.2	-0.1	0.0	0.2	0.3	0.3	0.3	0.2	0.1	0.2	0.8	-0.1
Avg	0.1	0.2	0.3	0.5	0.5	0.4	0.3	0.5	0.5	0.5	0.6	0.4	0.4	0.4	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.4	--	--
Max	0.5	0.8	0.9	7.0	6.8	3.3	1.9	4.1	2.8	2.6	3.0	1.9	3.8	2.8	5.6	5.9	1.2	0.9	0.8	0.8	0.8	1.2	0.7	3.0	--	7.0	--
Min	-0.2	-0.1	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.2	-0.1	-0.1	-0.1	-0.2	-0.1	0.0	-0.1	-0.1	0.0	0.0	0.0	-0.1	-0.1	-0.1	0.1	--	--	-0.2

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Jan 2014

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	0.035	0.035	0.034	0.034	0.035	0.035	0.035	0.035	0.036	0.037	0.037	0.037	0.036	0.036	0.036	0.035	0.035	0.034	0.034	0.034	0.033	0.033	0.033	0.034	0.035	0.037	0.033
2	0.034	0.034	0.034	0.034	0.035	0.035	0.035	0.036	0.036	0.037	0.037	0.038	0.038	0.038	0.039	0.038	0.038	0.038	0.037	0.037	0.037	0.036	0.036	0.036	0.036	0.039	0.034
3	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.037	0.038	0.038	0.039	0.039	0.040	0.040	0.040	0.039	0.039	0.038	0.038	0.038	0.037	0.037	0.037	0.036	0.038	0.040	0.036
4	0.035	0.034	0.033	0.034	0.034	0.035	0.036	0.037	0.038	0.040	0.041	0.042	0.042	0.042	0.041	0.042	0.042	0.041	0.040	0.040	0.039	0.039	0.038	0.037	0.038	0.042	0.033
5	0.036	0.036	0.036	0.037	0.037	0.037	0.038	0.039	0.039	0.040	0.040	0.040	0.040	0.040	0.039	0.039	0.039	0.038	0.037	0.037	0.038	0.038	0.038	0.039	0.038	0.040	0.036
6	0.039	0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.040	0.039	0.039	0.038	0.038	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.039	0.041	0.037
7	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.036	0.036	0.035	0.035	0.035	0.034	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.032	0.035	0.037	0.032
8	0.032	0.032	0.033	0.033	0.034	0.035	0.036	0.037	0.038	0.039	0.039	0.039	0.039	0.039	0.038	0.038	0.038	0.038	0.037	0.037	0.038	0.038	0.039	0.039	0.037	0.039	0.032
9	0.038	0.038	0.038	0.037	0.037	0.037	0.037	0.037	0.038	0.038	0.039	0.040	0.040	0.039	0.039	0.039	0.038	0.038	0.037	0.037	0.036	0.036	0.036	0.036	0.038	0.040	0.036
10	0.036	0.035	0.035	0.035	0.035	0.035	0.035	0.035	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.036	0.036	0.036	0.036	0.036	0.037	--	--	--
16	0.037	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.044	--	--	--
17	0.044	0.044	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.042	0.041	0.040	0.040	0.040	0.040	0.039	0.039	0.039	0.042	0.044	0.039
18	0.039	0.039	0.038	0.039	0.039	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	0.040	0.040	0.040	0.040	0.039	0.039	0.039	0.040	0.038
19	0.038	0.037	0.036	0.036	0.036	0.037	0.037	0.038	0.039	0.040	0.040	0.041	0.041	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.041	0.040	0.040	0.039	0.039	0.042	0.036
20	0.038	0.037	0.036	0.037	0.037	0.037	0.038	0.039	0.041	0.042	0.043	0.043	0.042	0.042	0.041	0.040	0.040	0.039	0.039	0.039	0.039	0.039	0.038	0.038	0.039	0.043	0.036
21	0.037	0.036	0.036	0.036	0.037	0.037	0.038	0.039	0.040	0.041	0.042	0.042	0.043	0.043	0.043	0.042	0.042	0.041	0.041	0.041	0.041	0.040	0.040	0.040	0.040	0.043	0.036
22	0.040	0.040	0.040	0.040	0.040	0.040	0.041	0.041	0.042	0.043	0.044	0.045	0.045	0.045	0.046	--	--	--	--	--	--	--	--	0.033	--	--	--
23	0.033	0.032	0.033	0.033	0.033	0.033	--	--	--	--	--	--	--	0.041	0.040	0.039	0.038	0.037	0.036	0.036	0.035	0.034	0.033	0.033	--	--	--
24	0.033	0.032	0.032	0.032	0.032	0.033	0.033	0.034	0.034	0.035	0.035	0.035	0.035	0.035	0.035	0.034	0.034	0.034	0.034	0.034	0.034	0.033	0.033	0.032	0.034	0.035	0.032
25	0.032	0.031	0.031	0.031	0.032	0.033	0.034	0.036	0.037	0.039	0.041	0.042	0.043	0.044	0.044	0.044	0.044	0.043	0.042	0.042	0.041	0.040	0.039	0.038	0.038	0.044	0.031
26	0.038	0.038	0.038	0.039	0.040	0.041	0.042	0.043	0.045	0.046	0.047	0.047	0.048	0.048	0.048	0.047	0.046	0.045	0.044	0.044	0.043	0.042	0.041	0.041	0.043	0.048	0.038
27	0.042	0.041	0.041	0.041	0.041	0.042	0.042	0.042	0.043	0.044	0.044	0.044	0.044	0.043	0.042	0.042	0.041	0.041	0.040	0.040	0.040	0.039	0.039	0.039	0.041	0.044	0.039
28	0.038	0.037	0.037	0.037	0.037	0.037	0.037	0.038	0.039	0.041	0.041	0.042	0.042	0.042	0.042	0.041	0.040	0.039	0.038	0.038	0.037	0.037	0.036	0.036	0.039	0.042	0.036
29	0.036	0.035	0.035	0.035	0.035	0.036	0.036	0.037	0.038	0.039	0.040	0.040	0.041	0.041	0.041	0.041	0.041	0.042	0.041	0.041	0.041	0.041	0.041	0.040	0.039	0.042	0.035
30	0.039	0.038	0.037	0.037	0.037	0.038	0.038	0.039	0.040	0.041	0.042	0.042	0.042	0.041	0.040	0.040	0.039	0.039	0.038	0.038	0.038	0.037	0.037	0.037	0.039	0.042	0.037
31	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	0.036	0.036	0.035	0.035	0.035	0.036	0.036	0.036	0.036	0.036	0.037	0.035
Avg	0.037	0.036	0.036	0.036	0.037	0.037	0.038	0.038	0.039	0.040	0.040	0.041	0.041	0.041	0.040	0.040	0.039	0.039	0.038	0.038	0.038	0.038	0.037	0.037	0.038	--	--
Max	0.044	0.044	0.043	0.043	0.043	0.043	0.043	0.043	0.045	0.046	0.047	0.047	0.048	0.048	0.048	0.047	0.046	0.045	0.044	0.044	0.043	0.042	0.041	0.044	--	0.048	--
Min	0.032	0.031	0.031	0.031	0.032	0.033	0.033	0.034	0.034	0.035	0.035	0.035	0.035	0.035	0.035	0.034	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.032	--	--	0.031

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Feb 2014

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	0.037	0.037	0.037	0.038	0.038	0.038	0.039	0.039	0.040	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.040	0.039	0.038	0.037	0.036	0.035	0.035	0.034	0.039	0.041	0.034
2	0.034	0.034	0.034	0.034	0.035	0.036	0.036	0.037	0.038	0.039	0.040	0.040	0.041	0.041	0.041	0.040	0.039	0.038	0.037	0.037	0.035	0.034	0.033	0.033	0.037	0.041	0.033
3	0.032	0.032	0.033	0.033	0.034	0.035	0.036	0.036	0.037	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.038	0.038	0.038	0.038	0.037	0.036	0.035	0.037	0.039	0.032
4	0.033	0.032	0.032	0.033	0.033	0.034	0.036	0.038	0.040	0.042	0.043	0.044	0.044	0.044	0.043	0.042	0.042	0.041	0.040	0.040	0.039	0.039	0.038	0.037	0.039	0.044	0.032
5	0.036	0.035	0.035	0.035	0.035	0.035	0.036	0.037	0.039	0.040	0.040	0.040	0.040	0.039	0.038	0.037	0.037	0.036	0.035	0.034	0.034	0.034	0.034	0.033	0.037	0.040	0.033
6	0.033	0.032	0.032	0.032	0.032	0.032	0.032	0.034	0.034	0.035	0.036	0.037	0.038	0.038	0.038	0.037	0.035	0.034	0.032	0.031	0.030	0.029	0.029	0.030	0.033	0.038	0.029
7	0.031	0.032	0.034	0.034	0.035	0.036	0.037	0.038	0.039	0.040	0.041	0.042	0.042	0.042	0.042	0.041	0.040	0.040	0.039	0.038	0.038	0.038	0.038	0.038	0.038	0.042	0.031
8	0.037	0.036	0.036	0.036	0.036	0.036	0.037	0.039	0.040	0.041	0.042	0.043	0.044	0.044	0.044	0.043	0.042	0.042	0.041	0.040	0.039	0.039	0.039	0.039	0.040	0.044	0.036
9	0.039	0.038	0.038	0.038	0.037	--	--	--	--	--	--	0.041	0.041	0.041	0.040	0.039	0.038	0.038	0.037	0.037	0.036	0.036	0.036	0.037	0.038	0.041	0.036
10	0.037	0.036	0.035	0.036	0.036	0.037	0.037	0.037	0.038	0.040	0.041	0.041	0.041	0.040	0.040	0.040	0.040	0.039	0.039	0.038	0.038	0.037	0.037	0.036	0.038	0.041	0.035
11	0.036	0.037	0.037	0.037	0.038	0.038	0.039	0.039	0.040	0.040	0.041	0.041	0.041	0.041	0.041	0.040	0.039	0.038	0.037	0.037	0.036	0.035	0.035	0.034	0.038	0.041	0.034
12	0.035	0.035	0.035	0.035	0.036	0.037	0.038	0.039	0.040	0.041	0.042	0.043	0.043	0.043	0.043	0.043	0.042	0.041	0.041	0.040	0.040	0.039	0.039	0.038	0.040	0.043	0.035
13	0.038	0.037	0.036	0.036	0.035	0.035	0.036	0.037	0.038	0.039	0.040	0.042	0.042	0.042	0.042	0.041	0.040	0.039	0.038	0.038	0.037	0.037	0.037	0.037	0.038	0.042	0.035
14	0.037	0.037	0.037	0.037	0.037	0.038	0.039	0.040	0.042	0.044	0.045	0.047	0.048	0.049	0.049	0.048	0.047	0.045	0.042	0.041	0.038	0.035	0.033	0.032	0.041	0.049	0.032
15	0.031	0.031	0.032	0.033	0.033	0.034	0.035	0.036	0.037	0.038	0.039	0.039	0.041	0.041	0.042	0.042	0.043	0.043	0.043	0.043	0.043	0.042	0.041	0.041	0.038	0.043	0.031
16	0.040	0.040	0.039	0.040	0.040	0.041	0.041	0.041	0.042	0.042	0.043	0.043	0.043	0.043	0.043	0.042	0.042	0.041	0.040	0.039	0.038	0.038	0.037	0.036	0.041	0.043	0.036
17	0.036	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.036	0.036	0.037	0.037	0.037	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.037	0.037	0.037	0.036	0.037	0.038	0.035
18	0.035	0.034	0.034	0.034	0.035	0.035	0.035	0.035	--	--	--	--	--	--	--	--	0.046	0.046	0.045	0.045	0.044	0.044	0.043	0.042	--	--	--
19	0.040	0.038	0.037	0.037	0.037	0.037	0.037	--	--	--	--	--	--	0.050	0.050	0.051	0.052	0.052	0.053	0.053	0.054	0.054	0.053	0.053	0.046	0.054	0.037
20	0.051	0.050	0.049	0.049	0.048	0.047	0.047	0.047	0.047	0.047	0.048	0.049	0.049	0.049	0.048	0.048	0.047	0.046	0.045	0.045	0.045	0.044	0.044	0.043	0.047	0.051	0.043
21	0.043	0.042	0.042	0.042	0.042	0.042	0.043	0.045	0.046	0.048	0.050	0.051	0.051	0.052	0.053	0.053	0.052	0.052	0.051	0.051	0.051	0.050	0.049	0.048	0.048	0.053	0.042
22	0.046	0.045	0.044	0.045	0.045	0.046	0.048	0.050	0.052	0.054	0.056	0.056	0.057	0.057	0.056	0.054	0.052	0.051	0.050	0.050	0.050	0.050	0.051	0.052	0.051	0.057	0.044
23	0.053	0.053	0.053	0.054	0.053	0.053	0.053	0.053	0.054	0.054	0.055	0.054	0.054	0.053	0.052	0.051	0.051	0.049	0.048	0.047	0.047	0.046	0.046	0.045	0.051	0.055	0.045
24	0.044	0.044	0.045	0.045	0.044	0.044	0.045	0.045	0.046	0.046	0.046	0.046	0.046	0.046	0.045	0.044	0.043	0.042	0.042	0.041	0.040	0.040	0.041	0.041	0.044	0.046	0.040
25	0.041	0.040	0.039	0.039	0.039	0.039	0.040	0.040	0.041	0.042	0.044	0.045	0.045	0.046	0.045	0.045	0.044	0.043	0.042	0.041	0.040	0.038	0.036	0.034	0.041	0.046	0.034
26	0.033	0.031	0.032	0.033	0.035	0.036	0.038	0.041	0.043	0.045	0.046	0.047	0.048	0.048	0.048	0.048	0.048	0.047	0.047	0.047	0.045	0.043	0.042	0.039	0.042	0.048	0.031
27	0.036	0.035	0.034	0.034	0.034	0.035	0.035	0.036	0.037	0.037	0.037	0.036	0.036	0.035	0.035	0.035	0.034	0.034	0.034	0.034	0.034	0.034	0.033	0.033	0.035	0.037	0.033
28	0.032	0.032	0.032	0.032	0.032	0.033	0.033	0.034	0.035	0.035	0.034	0.034	0.033	0.031	0.030	0.028	0.026	0.025	0.024	0.023	0.022	0.021	0.020	0.020	0.029	0.035	0.020
Avg	0.038	0.037	0.037	0.037	0.038	0.038	0.039	0.040	0.041	0.042	0.043	0.043	0.043	0.043	0.043	0.043	0.042	0.041	0.041	0.040	0.039	0.039	0.038	0.038	0.040	--	--
Max	0.053	0.053	0.053	0.054	0.053	0.053	0.053	0.053	0.054	0.054	0.056	0.056	0.057	0.057	0.056	0.054	0.052	0.052	0.053	0.053	0.054	0.054	0.053	0.053	--	0.057	--
Min	0.031	0.031	0.032	0.032	0.032	0.032	0.032	0.034	0.034	0.035	0.034	0.034	0.033	0.031	0.030	0.028	0.026	0.025	0.024	0.023	0.022	0.021	0.020	0.020	--	--	0.020

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Mar 2014

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	0.020	0.021	0.022	0.023	0.024	0.025	0.026	0.027	0.028	0.028	0.028	0.028	0.028	0.030	0.032	0.034	0.037	0.039	0.043	0.044	0.046	0.048	0.049	0.049	0.032	0.049	0.020
2	0.049	0.048	0.047	0.046	0.046	0.045	0.045	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.044	0.043	0.041	0.040	0.039	0.038	0.036	0.035	0.035	0.035	0.043	0.049	0.035
3	0.033	0.033	0.033	0.034	0.034	0.035	0.036	0.038	0.041	0.044	0.045	0.047	0.049	0.050	0.049	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.039	0.037	0.041	0.050	0.033
4	0.036	0.036	0.035	0.036	0.037	0.039	0.041	0.043	0.046	0.049	0.052	0.054	0.056	0.056	0.056	0.055	0.054	0.053	0.051	0.050	0.047	0.045	0.044	0.042	0.046	0.056	0.035
5	0.041	0.040	0.039	0.040	0.040	0.040	0.041	0.042	0.044	0.046	0.047	0.048	0.048	0.048	0.048	0.047	0.046	0.045	0.044	0.044	0.044	0.043	0.043	0.042	0.044	0.048	0.039
6	0.042	0.042	0.042	0.042	0.043	0.045	0.047	0.049	0.050	0.052	0.053	0.054	0.054	0.053	0.051	0.051	0.051	0.051	0.050	0.050	0.050	0.051	0.052	0.052	0.049	0.054	0.042
7	0.051	0.050	0.049	0.050	0.050	0.050	0.050	0.051	0.052	0.054	0.055	0.056	0.056	0.056	0.057	0.056	0.055	0.054	0.051	0.050	0.048	0.046	0.044	0.043	0.051	0.057	0.043
8	0.042	0.042	0.042	0.042	0.042	0.043	0.043	0.043	0.044	0.045	0.045	0.046	0.046	0.046	0.046	0.046	0.046	0.045	0.044	0.044	0.043	0.041	0.040	0.038	0.043	0.046	0.038
9	0.036	0.035	0.035	0.036	0.037	0.038	0.039	0.041	0.042	0.044	0.045	0.045	0.045	0.044	0.044	0.044	0.043	0.042	0.042	0.041	0.040	0.039	0.039	0.038	0.041	0.045	0.035
10	0.038	0.039	0.039	0.040	0.040	0.042	0.043	0.044	0.045	0.047	0.048	0.049	0.050	0.050	0.050	0.051	0.050	0.050	0.050	0.049	0.049	0.048	0.048	0.047	0.046	0.051	0.038
11	0.047	0.047	0.047	0.048	0.048	0.048	0.049	0.050	0.051	0.052	0.053	0.055	0.056	0.057	0.057	0.056	0.056	0.054	0.054	0.052	0.050	0.047	0.046	0.044	0.051	0.057	0.044
12	0.043	0.043	0.042	0.042	0.042	0.043	0.045	0.046	0.047	0.048	0.049	0.049	0.049	0.048	0.047	0.045	0.044	0.043	0.043	0.043	0.042	0.042	0.041	0.040	0.044	0.049	0.040
13	0.040	0.039	0.039	0.039	0.040	0.040	0.041	0.043	0.044	0.046	0.047	0.047	0.047	0.047	0.046	0.045	0.044	0.043	0.043	0.042	0.040	0.038	0.037	0.035	0.042	0.047	0.035
14	0.033	0.032	0.033	0.034	0.036	0.038	0.039	0.041	0.043	0.045	0.046	0.046	0.046	0.046	0.046	0.046	0.045	0.043	0.043	0.042	0.042	0.043	0.044	0.045	0.042	0.046	0.032
15	0.046	0.048	0.048	0.048	0.048	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.048	0.048	0.049	0.050	0.050	0.050	0.050	0.050	0.051	0.050	0.050	0.048	0.051	0.046
16	0.048	0.048	0.047	0.047	0.047	0.047	0.047	0.047	0.048	0.048	0.049	0.049	0.050	0.050	0.050	0.051	0.051	0.052	0.052	0.051	0.051	0.050	0.049	0.048	0.049	0.052	0.047
17	0.047	0.045	0.046	0.047	0.047	0.047	0.048	0.049	0.050	0.051	0.052	0.052	0.051	0.051	0.051	0.051	0.050	0.050	0.049	0.049	0.048	0.048	0.047	0.046	0.049	0.052	0.045
18	0.045	0.045	0.045	0.044	0.045	0.045	0.046	0.047	0.048	0.049	0.051	0.052	0.052	0.053	0.052	0.052	0.051	0.050	0.049	0.047	0.045	0.044	0.043	0.042	0.048	0.053	0.042
19	0.041	0.042	0.042	0.043	0.044	0.045	0.046	0.048	0.050	0.051	0.052	0.053	0.054	0.054	0.053	0.053	0.052	0.051	0.051	0.050	0.050	0.050	0.049	0.048	0.049	0.054	0.041
20	0.047	0.046	0.046	0.047	0.047	0.047	0.048	0.049	0.050	0.052	0.052	0.053	0.053	0.052	0.052	0.052	0.052	0.051	0.050	0.049	0.049	0.050	0.049	0.049	0.050	0.053	0.046
21	0.048	0.047	0.048	0.048	0.048	0.049	0.049	0.049	0.050	0.052	0.052	0.053	0.052	0.052	0.051	0.050	0.049	0.048	0.047	0.045	0.044	0.044	0.043	0.043	0.048	0.053	0.043
22	0.042	0.042	0.043	0.043	0.043	0.044	0.044	0.046	0.047	0.048	0.048	0.049	0.049	0.050	0.050	0.049	0.049	0.048	0.048	0.047	0.046	0.046	0.046	0.046	0.046	0.050	0.042
23	0.046	0.046	0.046	0.047	0.048	0.048	0.049	0.049	0.050	0.050	0.050	0.050	0.050	0.050	0.049	0.049	0.049	0.049	0.049	0.049	0.048	0.048	0.049	0.049	0.049	0.050	0.046
24	0.048	0.047	0.047	0.048	0.048	0.048	0.049	0.050	0.052	0.053	0.054	0.055	0.056	0.056	0.055	0.054	0.053	0.052	0.052	0.051	0.050	0.049	0.048	0.047	0.051	0.056	0.047
25	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.045	0.045	0.044	0.044	0.043	0.043	0.042	0.041	0.041	0.041	0.041	0.041	0.044	0.046	0.041
26	0.041	0.041	0.042	0.043	0.043	0.044	0.046	0.047	0.048	0.049	0.049	0.050	0.050	0.049	0.049	0.049	0.049	0.048	0.048	0.048	0.047	0.046	0.045	0.044	0.046	0.050	0.041
27	0.043	0.043	0.043	0.043	0.043	0.044	0.044	0.045	0.046	0.046	0.047	0.048	0.048	0.048	0.048	0.048	0.048	0.047	0.047	0.046	0.047	0.047	0.046	0.045	0.046	0.048	0.043
28	0.044	0.044	0.044	0.045	0.045	0.046	0.047	0.048	0.050	0.052	0.053	0.054	0.055	0.055	0.054	0.054	0.053	0.052	0.051	0.049	0.049	0.049	0.049	0.048	0.050	0.055	0.044
29	0.048	0.048	0.048	0.048	0.048	0.049	0.049	0.050	0.051	0.052	0.053	0.054	0.055	0.056	0.057	0.057	0.058	0.058	0.058	0.058	0.057	0.056	0.056	0.055	0.053	0.058	0.048
30	0.055	0.053	0.053	0.053	0.052	0.052	0.052	0.052	0.051	0.052	0.051	0.051	0.050	0.050	0.049	0.048	0.048	0.048	0.047	0.047	0.046	0.045	0.044	0.044	0.050	0.055	0.044
31	0.043	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.049	0.050	0.051	0.051	0.050	0.050	0.050	0.050	0.049	0.048	0.048	0.048	0.048	0.047	0.047	0.047	0.047	0.051	0.042
Avg	0.043	0.042	0.043	0.043	0.043	0.044	0.045	0.046	0.047	0.048	0.049	0.050	0.050	0.050	0.050	0.049	0.049	0.048	0.048	0.047	0.046	0.046	0.045	0.044	0.046	--	--
Max	0.055	0.053	0.053	0.053	0.052	0.052	0.052	0.052	0.052	0.054	0.055	0.056	0.056	0.057	0.057	0.057	0.058	0.058	0.058	0.058	0.057	0.056	0.056	0.055	--	0.058	--
Min	0.020	0.021	0.022	0.023	0.024	0.025	0.026	0.027	0.028	0.028	0.028	0.028	0.028	0.030	0.032	0.034	0.037	0.039	0.039	0.038	0.036	0.035	0.035	0.035	--	--	0.020

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Jan 2014

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.038	0.037	--	0.036	0.036	0.035	0.034	0.033	0.033	0.033	0.036	0.038	0.038	0.036	0.037	0.038	0.038	0.036	0.034	0.035	0.035	0.034	0.033	0.033	0.035	0.038	0.033
2	0.034	0.032	--	0.032	0.034	0.035	0.035	0.035	0.034	0.034	0.035	0.035	0.037	0.038	0.039	0.039	0.039	0.038	0.038	0.039	0.038	0.038	0.037	0.036	0.036	0.039	0.032
3	0.036	0.035	--	0.036	0.036	0.036	0.036	0.037	0.036	0.035	0.035	0.036	0.037	0.040	0.041	0.041	0.042	0.040	0.040	0.040	0.038	0.036	0.038	0.038	0.038	0.042	0.035
4	0.039	0.037	--	0.035	0.037	0.034	0.034	0.032	0.033	0.030	0.036	0.040	0.041	0.043	0.043	0.043	0.043	0.042	0.041	0.040	0.039	0.040	0.045	0.043	0.039	0.045	0.030
5	0.038	0.036	--	0.036	0.036	0.037	0.035	0.035	0.037	0.039	0.039	0.039	0.038	0.040	0.041	0.041	0.042	0.042	0.041	0.036	0.036	0.038	0.038	0.037	0.038	0.042	0.035
6	0.037	0.037	--	0.040	0.040	0.040	0.040	0.040	0.040	0.041	0.040	0.042	0.042	0.042	0.042	0.041	0.041	0.039	0.036	0.037	0.038	0.039	0.038	0.037	0.040	0.042	0.036
7	0.036	0.036	--	0.037	0.038	0.037	0.038	0.038	0.038	0.037	0.037	0.037	0.038	0.037	0.039	0.037	0.034	0.033	0.033	0.033	0.034	0.035	0.033	0.033	0.036	0.039	0.033
8	0.031	0.032	--	0.034	0.034	0.032	0.028	0.032	0.033	0.034	0.038	0.039	0.040	0.041	0.039	0.040	0.040	0.040	0.039	0.035	0.036	0.038	0.038	0.038	0.036	0.041	0.028
9	0.038	0.037	--	0.040	0.040	0.040	0.038	0.035	0.036	0.035	0.034	0.038	0.038	0.039	0.041	0.041	0.041	0.040	0.039	0.038	0.036	0.038	0.038	0.037	0.038	0.041	0.034
10	0.036	0.036	--	0.034	0.034	0.035	0.037	0.037	0.035	0.033	0.034	0.034	0.036	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.034	0.037	0.036	0.037	--	--	--
16	0.037	0.037	--	0.036	0.035	0.037	0.039	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	0.045	0.044	--	0.043	0.043	0.044	0.044	0.044	0.043	0.043	0.042	0.041	0.043	0.044	0.045	0.045	0.044	0.043	0.039	0.040	0.041	0.042	0.040	0.037	0.043	0.045	0.037
18	0.039	0.040	--	0.040	0.039	0.038	0.039	0.038	0.038	0.039	0.040	0.040	0.040	0.042	0.042	0.041	0.040	0.039	0.040	0.039	0.038	0.039	0.042	0.041	0.040	0.042	0.038
19	0.040	0.040	--	0.038	0.037	0.037	0.037	0.034	0.033	0.037	0.038	0.038	0.039	0.041	0.041	0.042	0.041	0.041	0.043	0.043	0.043	0.043	0.041	0.041	0.040	0.043	0.033
20	0.040	0.040	--	0.039	0.039	0.038	0.036	0.033	0.034	0.037	0.039	0.039	0.042	0.045	0.045	0.046	0.044	0.041	0.039	0.038	0.038	0.038	0.039	0.039	0.039	0.046	0.033
21	0.041	0.040	--	0.036	0.037	0.036	0.035	0.036	0.036	0.037	0.038	0.040	0.041	0.042	0.043	0.044	0.044	0.043	0.043	0.042	0.042	0.040	0.040	0.040	0.040	0.044	0.035
22	0.041	0.041	--	0.040	0.040	0.040	0.040	0.040	0.039	0.039	0.040	0.041	0.043	0.043	0.046	0.047	0.047	0.046	0.045	0.045	--	--	--	--	0.042	0.047	0.039
23	0.032	0.032	--	0.032	0.033	0.034	0.035	0.031	0.030	0.033	0.037	--	--	--	--	0.044	0.044	0.042	0.039	0.037	0.040	0.037	0.035	0.035	0.036	0.044	0.030
24	0.034	0.033	--	0.033	0.033	0.033	0.032	0.032	0.032	0.032	0.032	0.034	0.035	0.035	0.036	0.036	0.036	0.034	0.033	0.033	0.034	0.034	0.034	0.034	0.034	0.036	0.032
25	0.034	0.034	--	0.032	0.032	0.030	0.031	0.030	0.029	0.031	0.035	0.036	0.039	0.042	0.043	0.044	0.044	0.044	0.044	0.045	0.044	0.044	0.043	0.042	0.038	0.045	0.029
26	0.040	0.037	--	0.037	0.036	0.039	0.039	0.038	0.038	0.042	0.043	0.045	0.046	0.047	0.047	0.048	0.048	0.048	0.048	0.048	0.048	0.047	0.043	0.041	0.043	0.048	0.036
27	0.042	0.040	--	0.042	0.042	0.041	0.043	0.042	0.038	0.039	0.043	0.044	0.044	0.045	0.045	0.046	0.045	0.044	0.042	0.040	0.040	0.039	0.039	0.040	0.042	0.046	0.038
28	0.041	0.039	--	0.039	0.039	0.038	0.036	0.037	0.035	0.036	0.038	0.037	0.038	0.043	0.044	0.044	0.045	0.043	0.041	0.040	0.038	0.038	0.038	0.038	0.039	0.045	0.035
29	0.036	0.035	--	0.036	0.036	0.035	0.035	0.035	0.036	0.036	0.035	0.036	0.039	0.040	0.041	0.042	0.043	0.043	0.042	0.041	0.038	0.040	0.043	0.043	0.038	0.043	0.035
30	0.044	0.042	--	0.040	0.040	0.038	0.036	0.037	0.036	0.034	0.037	0.043	0.043	0.043	0.043	0.042	0.042	0.041	0.040	0.039	0.038	0.038	0.038	0.038	0.040	0.044	0.034
31	0.038	0.038	--	0.036	0.036	0.036	0.036	0.035	0.036	0.037	0.036	0.036	0.037	0.037	0.037	0.037	0.037	0.037	0.035	0.034	0.036	0.037	0.035	0.035	0.036	0.038	0.034
Avg	0.038	0.037	--	0.037	0.037	0.037	0.036	0.036	0.035	0.036	0.038	0.039	0.040	0.041	0.042	0.042	0.042	0.041	0.040	0.039	0.038	0.039	0.038	0.038	0.038	--	--
Max	0.045	0.044	--	0.043	0.043	0.044	0.044	0.044	0.043	0.043	0.043	0.045	0.046	0.047	0.047	0.048	0.048	0.048	0.048	0.048	0.048	0.047	0.045	0.043	--	0.048	--
Min	0.031	0.032	--	0.032	0.032	0.030	0.028	0.030	0.029	0.030	0.032	0.034	0.035	0.035	0.036	0.036	0.034	0.033	0.033	0.033	0.034	0.034	0.033	0.033	--	--	0.028

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Feb 2014

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	0.035	0.036	--	0.037	0.038	0.038	0.037	0.037	0.036	0.040	0.039	0.040	0.041	0.042	0.041	0.041	0.042	0.042	0.042	0.041	0.040	0.040	0.039	0.035	0.039	0.042	0.035
2	0.034	0.033	--	0.035	0.034	0.034	0.034	0.033	0.034	0.036	0.037	0.038	0.039	0.040	0.040	0.041	0.041	0.041	0.041	0.041	0.041	0.038	0.035	0.036	0.037	0.041	0.033
3	0.034	0.031	--	0.033	0.032	0.032	0.033	0.031	0.031	0.037	0.037	0.038	0.039	0.039	0.038	0.041	0.041	0.039	0.039	0.038	0.037	0.039	0.039	0.037	0.036	0.041	0.031
4	0.038	0.038	--	0.035	0.032	0.030	0.031	0.027	0.029	0.036	0.040	0.040	0.042	0.044	0.045	0.045	0.045	0.045	0.044	0.042	0.041	0.038	0.039	0.040	0.039	0.045	0.027
5	0.039	0.039	--	0.041	0.037	0.034	0.034	0.032	0.033	0.036	0.038	0.036	0.041	0.040	0.042	0.042	0.041	0.040	0.039	0.035	0.032	0.033	0.037	0.036	0.037	0.042	0.032
6	0.034	0.033	--	0.034	0.034	0.032	0.029	0.032	0.033	0.032	0.030	0.035	0.036	0.033	0.038	0.037	0.040	0.041	0.039	0.037	0.037	0.033	0.029	0.027	0.034	0.041	0.027
7	0.029	0.024	--	0.031	0.032	0.030	0.035	0.035	0.036	0.037	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.044	0.043	0.042	0.038	0.036	0.037	0.039	0.037	0.044	0.024
8	0.039	0.039	--	0.039	0.037	0.036	0.034	0.034	0.034	0.034	0.039	0.039	0.041	0.043	0.044	0.044	0.044	0.045	0.045	0.044	0.041	0.042	0.039	0.038	0.040	0.045	0.034
9	0.038	0.039	--	0.038	0.039	0.040	0.040	0.038	0.034	0.034	--	--	--	0.043	0.043	0.041	0.040	0.040	0.040	0.040	0.038	0.037	0.036	0.035	0.039	0.043	0.034
10	0.037	0.036	--	0.036	0.037	0.037	0.038	0.034	0.030	0.032	0.039	0.041	0.041	0.040	0.041	0.042	0.042	0.041	0.040	0.039	0.039	0.041	0.040	0.038	0.038	0.042	0.030
11	0.037	0.035	--	0.034	0.037	0.037	0.038	0.038	0.038	0.038	0.038	0.039	0.040	0.040	0.042	0.043	0.043	0.042	0.041	0.040	0.038	0.038	0.035	0.036	0.039	0.043	0.034
12	0.036	0.036	--	0.033	0.033	0.033	0.034	0.037	0.037	0.039	0.039	0.039	0.041	0.042	0.044	0.044	0.045	0.044	0.043	0.042	0.042	0.042	0.039	0.039	0.039	0.045	0.033
13	0.040	0.038	--	0.039	0.039	0.037	0.037	0.035	0.034	0.033	0.032	0.037	0.039	0.042	0.043	0.043	0.044	0.042	0.042	0.042	0.040	0.036	0.034	0.037	0.039	0.044	0.032
14	0.037	0.037	--	0.038	0.038	0.038	0.037	0.037	0.034	0.036	0.037	0.040	0.044	0.047	0.048	0.048	0.049	0.050	0.052	0.050	0.049	0.047	0.040	0.038	0.042	0.052	0.034
15	0.032	0.029	--	0.031	0.031	0.032	0.032	0.032	0.032	0.033	0.038	0.037	0.036	0.043	0.039	0.038	0.039	0.040	0.044	0.046	0.042	0.044	0.046	0.043	0.037	0.046	0.029
16	0.042	0.040	--	0.041	0.039	0.039	0.041	0.039	0.040	0.039	0.042	0.043	0.044	0.043	0.043	0.043	0.043	0.044	0.044	0.044	0.040	0.041	0.039	0.039	0.041	0.044	0.039
17	0.037	0.036	--	0.035	0.037	0.036	0.035	0.033	0.033	0.035	0.035	0.037	0.036	0.036	0.037	0.038	0.038	0.040	0.038	0.038	0.037	0.038	0.039	0.039	0.037	0.040	0.033
18	0.037	0.036	--	0.036	0.035	0.034	0.034	0.035	0.029	0.035	0.038	0.038	0.037	--	--	--	--	--	0.047	0.047	0.043	0.044	0.047	0.048	0.039	0.048	0.029
19	0.045	0.042	--	0.040	0.040	0.039	0.038	0.033	0.032	0.036	0.036	0.044	--	--	--	0.048	0.049	0.050	0.051	0.050	0.051	0.053	0.055	0.055	0.044	0.055	0.032
20	0.054	0.054	--	0.055	0.050	0.049	0.050	0.048	0.045	0.045	0.046	0.047	0.047	0.048	0.048	0.049	0.050	0.051	0.049	0.049	0.046	0.044	0.044	0.043	0.048	0.055	0.043
21	0.044	0.043	--	0.049	0.043	0.043	0.040	0.038	0.039	0.040	0.046	0.047	0.047	0.050	0.052	0.052	0.054	0.054	0.052	0.051	0.051	0.055	0.052	0.051	0.047	0.055	0.038
22	0.050	0.048	--	0.051	0.046	0.047	0.043	0.041	0.040	0.043	0.051	0.052	0.055	0.057	0.058	0.059	0.058	0.058	0.055	0.055	0.054	0.048	0.047	0.045	0.050	0.059	0.040
23	0.048	0.050	--	0.058	0.056	0.056	0.054	0.050	0.047	0.052	0.056	0.054	0.056	0.056	0.055	0.053	0.054	0.054	0.053	0.049	0.050	0.049	0.049	0.048	0.052	0.058	0.047
24	0.042	0.044	--	0.049	0.045	0.044	0.041	0.044	0.045	0.047	0.046	0.046	0.045	0.045	0.046	0.047	0.049	0.048	0.045	0.045	0.040	0.037	0.041	0.041	0.044	0.049	0.037
25	0.040	0.043	--	0.039	0.041	0.042	0.039	0.042	0.037	0.036	0.036	0.042	0.041	0.045	0.046	0.046	0.046	0.049	0.047	0.043	0.043	0.044	0.041	0.038	0.042	0.049	0.036
26	0.039	--	--	0.032	0.035	0.031	0.030	0.030	0.030	0.038	0.040	0.043	0.048	0.049	0.047	0.047	0.046	0.048	0.050	0.050	0.047	0.048	0.047	0.046	0.042	0.050	0.030
27	0.045	0.045	--	0.038	0.036	0.034	0.029	0.027	0.035	0.037	0.039	0.038	0.037	0.036	0.038	0.038	0.036	0.034	0.033	0.033	0.035	0.035	0.035	0.034	0.036	0.045	0.027
28	0.034	0.034	--	0.033	0.034	0.030	0.031	0.026	0.033	0.036	0.036	0.034	0.035	0.035	0.038	0.036	0.032	0.030	0.028	0.027	0.025	0.022	0.021	0.022	0.031	0.038	0.021
Avg	0.039	0.038	--	0.039	0.038	0.037	0.037	0.036	0.035	0.037	0.039	0.041	0.042	0.043	0.044	0.044	0.044	0.044	0.044	0.043	0.041	0.041	0.040	0.039	0.040	--	--
Max	0.054	0.054	--	0.058	0.056	0.056	0.054	0.050	0.047	0.052	0.056	0.054	0.056	0.057	0.058	0.059	0.058	0.058	0.055	0.055	0.054	0.055	0.055	0.055	--	0.059	--
Min	0.029	0.024	--	0.031	0.031	0.030	0.029	0.026	0.029	0.032	0.030	0.034	0.035	0.033	0.037	0.036	0.032	0.030	0.028	0.027	0.025	0.022	0.021	0.022	--	--	0.021

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Mar 2014

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	0.022	0.022	--	0.020	0.018	0.018	0.018	0.020	0.029	0.030	0.027	0.032	0.027	0.024	0.025	0.029	0.031	0.028	0.030	0.036	0.037	0.039	0.044	0.050	0.029	0.050	0.018
2	0.053	0.052	--	0.048	0.049	0.047	0.045	0.046	0.046	0.045	0.045	0.044	0.045	0.047	0.047	0.047	0.046	0.046	0.046	0.046	0.042	0.035	0.033	0.038	0.045	0.053	0.033
3	0.036	0.035	--	0.036	0.035	0.034	0.031	0.028	0.031	0.038	0.036	0.039	0.042	0.046	0.048	0.049	0.050	0.052	0.052	0.051	0.049	0.043	0.042	0.041	0.041	0.052	0.028
4	0.039	0.038	--	0.038	0.039	0.035	0.033	0.032	0.035	0.036	0.044	0.044	0.050	0.053	0.054	0.057	0.058	0.058	0.059	0.057	0.055	0.050	0.050	0.049	0.046	0.059	0.032
5	0.044	0.042	--	0.041	0.042	0.038	0.039	0.038	0.039	0.040	0.041	0.042	0.044	0.047	0.049	0.051	0.053	0.050	0.047	0.044	0.044	0.044	0.045	0.044	0.044	0.053	0.038
6	0.045	0.041	--	0.043	0.043	0.041	0.041	0.043	0.043	0.042	0.043	0.051	0.053	0.057	0.056	0.055	0.055	0.053	0.052	0.049	0.046	0.044	0.050	0.057	0.048	0.057	0.041
7	0.055	0.050	--	0.049	0.051	0.051	0.051	0.049	0.046	0.050	0.053	--	--	0.053	0.053	0.056	0.056	0.058	0.059	0.058	0.057	0.055	0.051	0.046	0.053	0.059	0.046
8	0.047	0.037	--	0.042	0.043	0.043	0.043	0.042	0.042	0.041	0.042	0.043	0.044	0.045	0.046	0.046	0.048	0.047	0.047	0.045	0.045	0.045	0.044	0.043	0.044	0.048	0.037
9	0.041	--	--	0.037	0.036	0.035	0.034	0.034	0.031	0.041	0.043	0.043	0.044	0.044	0.045	0.046	0.045	0.046	0.044	0.042	0.042	0.043	0.041	0.041	0.041	0.046	0.031
10	0.039	--	0.037	0.038	0.037	0.038	0.039	0.040	0.040	0.041	0.043	0.045	0.047	0.049	0.050	0.050	0.050	0.050	0.051	0.051	0.051	0.051	0.051	0.048	0.045	0.051	0.037
11	0.045	--	0.044	0.050	0.049	0.048	0.049	0.046	0.047	0.046	0.048	0.050	0.052	0.054	0.054	0.055	0.057	0.057	0.059	0.060	0.058	0.053	0.051	0.049	0.051	0.060	0.044
12	0.047	--	0.045	0.045	0.043	0.042	0.041	0.042	0.041	0.041	0.043	0.047	0.051	0.052	0.052	0.051	0.050	0.046	0.044	0.044	0.043	0.043	0.042	0.043	0.045	0.052	0.041
13	0.042	--	0.041	0.041	0.039	0.039	0.039	0.039	0.038	0.039	0.042	0.043	0.045	0.047	0.048	0.051	0.052	0.048	0.045	0.043	0.044	0.039	0.041	0.044	0.043	0.052	0.038
14	0.043	--	0.038	0.035	0.031	0.028	0.029	0.029	0.033	0.042	0.047	0.047	0.047	0.042	0.042	0.047	0.050	0.049	0.048	0.046	0.043	0.042	0.042	0.040	0.041	0.050	0.028
15	0.038	--	0.041	0.050	0.050	0.045	0.049	0.049	0.049	0.048	0.048	0.045	0.045	0.046	0.048	0.048	0.049	0.049	0.048	0.048	0.048	0.049	0.052	0.056	0.048	0.056	0.038
16	0.052	--	0.049	0.048	0.049	0.049	0.047	0.045	0.046	0.045	0.047	0.048	0.050	0.049	0.049	0.050	0.049	0.050	0.051	0.052	0.053	0.051	0.054	0.053	0.049	0.054	0.045
17	0.050	--	0.045	0.048	0.048	0.046	0.046	0.043	0.041	0.050	0.051	0.052	0.051	0.050	0.051	0.053	0.052	0.052	0.052	0.051	0.049	0.049	0.049	0.049	0.049	0.053	0.041
18	0.047	--	0.048	0.047	0.044	0.043	0.043	0.043	0.045	0.045	0.046	0.047	0.050	0.050	0.051	0.053	0.054	0.055	0.054	0.052	0.052	0.050	0.048	0.045	0.048	0.055	0.043
19	0.042	--	0.039	0.043	0.041	0.042	0.040	0.042	0.047	0.045	0.046	0.047	0.051	0.054	0.055	0.055	0.055	0.055	0.055	0.054	0.050	0.051	0.051	0.050	0.048	0.055	0.039
20	0.047	--	0.049	0.051	0.049	0.045	0.044	0.044	0.043	0.047	0.050	0.051	0.052	0.053	0.052	0.054	0.055	0.054	0.053	0.052	0.048	0.052	0.051	0.049	0.050	0.055	0.043
21	0.048	--	0.046	0.051	0.050	0.050	0.048	0.044	0.043	0.049	0.051	0.052	0.052	0.052	0.052	0.053	0.053	0.053	0.055	0.051	0.047	0.046	0.044	0.043	0.049	0.055	0.043
22	0.041	--	0.045	0.045	0.044	0.042	0.039	0.040	0.039	0.047	0.047	0.048	0.048	0.048	0.048	0.049	0.050	0.051	0.052	0.051	0.048	0.049	0.046	0.045	0.046	0.052	0.039
23	0.046	--	0.044	0.046	0.045	0.049	0.046	0.044	0.045	0.050	0.050	0.052	0.051	0.052	0.050	0.048	0.048	0.049	0.050	0.051	0.053	0.048	0.048	0.048	0.048	0.053	0.044
24	0.046	--	0.046	0.050	0.051	0.051	0.047	0.043	0.044	0.047	0.048	0.051	0.053	0.055	0.058	0.057	0.055	0.055	0.056	0.056	0.054	0.049	0.050	0.050	0.051	0.058	0.043
25	0.047	--	0.048	0.048	0.047	0.044	0.044	0.043	0.045	0.047	0.050	0.050	0.048	0.045	0.043	0.045	0.045	0.047	0.046	0.044	0.042	0.039	0.041	0.041	0.045	0.050	0.039
26	0.041	--	0.040	0.042	0.041	0.041	0.039	0.043	0.044	0.045	0.046	0.048	0.050	0.050	0.051	0.051	0.050	0.049	0.048	0.048	0.049	0.049	0.050	0.048	0.046	0.051	0.039
27	0.046	--	0.044	0.043	0.043	0.043	0.043	0.042	0.044	0.043	0.044	0.045	0.046	0.047	0.048	0.049	0.049	0.050	0.048	0.047	0.047	0.047	0.048	0.047	0.046	0.050	0.042
28	0.042	--	0.046	0.049	0.049	0.042	0.041	0.038	0.041	0.047	0.051	0.052	0.053	0.053	0.053	0.053	0.054	0.059	0.059	0.054	0.051	0.051	0.050	0.048	0.049	0.059	0.038
29	0.045	--	0.047	0.052	0.050	0.049	0.048	0.046	0.046	0.046	0.050	0.051	0.053	0.053	0.054	0.054	0.055	0.054	0.057	0.061	0.060	0.059	0.057	0.058	0.052	0.061	0.045
30	0.055	--	0.055	0.056	0.055	0.053	0.055	0.053	0.046	0.054	0.053	0.052	0.052	0.052	0.052	0.050	0.050	0.049	0.050	0.048	0.047	0.047	0.046	0.048	0.051	0.056	0.046
31	0.046	--	0.046	0.043	0.041	0.041	0.042	0.041	0.042	0.048	0.052	0.051	0.050	0.051	0.051	0.051	0.050	0.050	0.051	0.050	0.049	0.049	0.047	0.048	0.047	0.052	0.041
Avg	0.045	0.040	0.045	0.044	0.044	0.042	0.042	0.041	0.042	0.044	0.046	0.047	0.048	0.049	0.049	0.050	0.051	0.051	0.051	0.050	0.048	0.047	0.047	0.047	0.046	--	--
Max	0.055	0.052	0.055	0.056	0.055	0.053	0.055	0.053	0.049	0.054	0.053	0.052	0.053	0.057	0.058	0.057	0.058	0.059	0.059	0.061	0.060	0.059	0.057	0.058	--	0.061	--
Min	0.022	0.022	0.037	0.020	0.018	0.018	0.018	0.020	0.029	0.030	0.027	0.032	0.027	0.024	0.025	0.029	0.031	0.028	0.030	0.036	0.037	0.035	0.033	0.038	--	--	0.018

-- Indicates Invalid Data

Appendix F: West Plant Meteorological Site Check Forms

AIR SCIENCES INC.

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

G.G.*

Date: 1/3/2013 Time: 0950 Operator: TEW/KLB

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 1/6/14

AUDITED BY GG. DATE 1/5/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	8	6.5	4.34	+
Direction* 10m (deg)	90	57.58	56	+
Ambient Temperature (°C)	15	16.55	16.1	+
Relative Humidity (%)	30	19.89	20.7	+
Aspirated Temp 2m	15	16.17	15.9	+
Aspirated Temp 10m	14.8	15.49	15.3	+
Delta Temperature (°C)	N/A	-0.68	-0.56	+
Solar Radiation (w/m²)	(Sunny) Partly cloudy Cloudy	408.92	398	+
Barometric Pressure (mmHg)	N/A	684.13	684	+
Battery Voltage (V)	N/A	12.93	12.9	+
Time (MST)	N/A	09:55	10:00 L.T.	+
Date	N/A	1/3/2013	1/3/2013	+

* GG.

*Direction wind is from

Comments/Unusual Occurrences or Weather: Filled evap pan

GG.* wrong date - should be 1/3/2014!

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

Site Operator Signature: TWi

AIR SCIENCES INC.

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

GG-✗'

Date: 1/10/2014 Time: 11:50 Operator: TEW

AIR SCIENCES INC.
REVIEWED BY: RPA DATE: 1/20/14
AUDITED BY: GG DATE: 1/13/14

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)	1.5	0.46	2.53	+
Direction* 10m (deg)	280	250	248	+
Ambient Temperature (°C)	20	14.45	14.1	+
Relative Humidity (%)	34	23.67	24.7	+
Aspirated Temp 2m	20	13.8	13.5	+
Aspirated Temp 10m	19.5	12.77	12.9	+
Delta Temperature (°C)	N/A	-1.04	-0.532	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	618.18	604	+
Barometric Pressure (mmHg)	N/A	684.88	685	+
Battery Voltage (V)	N/A	12.93	12.9	+
Time (MST)	N/A	11:54	12:00 L.T.	+
Date	N/A	1/10/13 GG-✗'	1/10/14	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: GG-✗ wrong date! It's 2014

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.

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

Date: 1/24/14 Time: 0950 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 1/27/14
AUDITED BY GG DATE 1/27/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	12	14.59	12.4	+
Direction* 10m (deg)	80	56.78	64.1	+
Ambient Temperature (°C)	12	12.65	12.9	+
Relative Humidity (%)	25	19.89	19.5	+
Aspirated Temp 2m	12	12.67	12.9	+
Aspirated Temp 10m	11.5	12.17	12.5	+
Delta Temperature (°C)	N/A	-0.51	-0.386	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	284.86	274	+
Barometric Pressure (mmHg)	N/A	689.84	690	+
Battery Voltage (V)	N/A	13.03	13	+
Time (MST)	N/A	09:55	10:00 – L.T.	
Date	N/A	1/24/14	1/24/14	

*Direction wind is from

Comments/Unusual Occurrences or Weather: High winds

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.

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

Date: 01/31/2014 Time: 9:35 Operator: T 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 2/4/14
AUDITED BY GG- DATE 2/3/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	1.0	4.3	3.72	+
Direction* 10m (deg)	215	215.48	211	+
Ambient Temperature (°C)	17	14.74	14.8	+
Relative Humidity (%)	28	27.20	27.3	+
Aspirated Temp 2m	17	14.7	14.7	+
Aspirated Temp 10m	16.8	14.42	14.5	+
Delta Temperature (°C)	N/A	-0.279	-0.26	+
Solar Radiation (w/m²)	Sunny Partly cloudy (Cloudy)	63.66	64.1	+
Barometric Pressure (mmHg)	N/A	679.42	679	+
Battery Voltage (V)	N/A	12.59	12.6	+
Time (MST)	N/A	9:40	9:45 L.T.	+
Date	N/A	1/31/14	1/31/14	+

*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: [signature]

AIR SCIENCES INC.

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

Date: 2-7-14 Time: 9:55 Operator: K. Brooke

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 2-10-14
VERIFIED BY GG DATE 2/10/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	3 mph	.3 m/s	0.515	+ 346 - 09:30
Direction* 10m (deg)	ENE	74°	172	★ 44.9 - 09:45
Ambient Temperature (°C)	53°F	11.34°C	10.7	+ 192 - 10:15
Relative Humidity (%)	15%	51%	53.8	+ 253 - 10:30
Aspirated Temp 2m	53°F	10.97°C	10.3	+
Aspirated Temp 10m	50°F	9.90°C	9.75	+
Delta Temperature (°C)	N/A	-.885	-0.544	+
Solar Radiation (w/m²)	Sunny Partly cloudy (Cloudy)	230.88	217	+
Barometric Pressure (mmHg)	N/A	684.87	685	+
Battery Voltage (V)	N/A	13	13.1	+
Time (MST)	N/A	9:57	10:00 L.T.	+
Date	N/A	2-7-14	2-7-14	+

*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: K. Brooke

AIR SCIENCES INC.

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

Date: 02·13·2014 Time: 2:54 PM * GG- Operator: Kami Ballard

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

AIR SCIENCES INC. DENVER · PORTLAND
REVIEWED BY RPA DATE 2/14/14
AUDITED BY GG- DATE 2/14/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)		3.84	2.54	278 - 14:30 + 262 - 14:45
Direction* 10m (deg)		315.44	285	★ 274 - 15:15
Ambient Temperature (°C)		24.52	24.3	+ 265 - 15:30
Relative Humidity (%)		12.73	13.1	+
Aspirated Temp 2m		24.30	24.1	+
Aspirated Temp 10m		23.65	23.5	+
Delta Temperature (°C)	N/A	-0.65	-0.566	+
Solar Radiation (w/m²)	(Sunny) Partly cloudy Cloudy	564.77	568	+
Barometric Pressure (mmHg)	N/A	682.92	683	+
Battery Voltage (V)	N/A	12.77	12.8	+
Time (MST)	N/A	2:58 PM	15:00 L.T.	+
Date	N/A	02-13-2014	02-13-2014	

*Direction wind is from 0.016" of precip. invalidated @ 15:00 hrs. 02/13/14. GG- GG-

Comments/Unusual Occurrences or Weather: Tipped precip. gauge (bucket tipped 2-3 times)

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

Site Operator Signature: Kami Ballard

AIR SCIENCES INC.

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

Date: 02/20/2014 Time: 1:53 pm Operator: Kami Ballard

AIR SCIENCES INC
RPA 2/21/14
REVIEWED BY DATE
UNITED BY G.G. DATE 2/21/14

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

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	1 m/s	1.07	2.2	89.1 – 13:30 + 172 – 13:45
Direction* 10m (deg)	East	92.16	292	* 296 – 14:15
Ambient Temperature (°C)	20°	20.17	20.2	+ 349 – 14:30
Relative Humidity (%)	10%	6.4%	6.15	+
Aspirated Temp 2m	20°	20.49	19.7	+
Aspirated Temp 10m	19°	18.93	18.8	+
Delta Temperature (°C)	N/A	-1.55	-0.855	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	739.85	744	+
Barometric Pressure (mmHg)	N/A	683.91	684	+
Battery Voltage (V)	N/A	12.86	12.9	+
Time (MST)	N/A	1:55 pm	14:00 L.T.	+
Date	N/A	02/20/2014	02/20/2014	+

*Direction wind is from G.G. * 0.004" of precip. invalidated due to site visit @ 14:00.

Comments/Unusual Occurrences or Weather: Tipped precip gauge. (bucket tipped once) * G.G.

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

Site Operator Signature: Kami Ballard

AIR SCIENCES INC.

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

GG.

Date: 2/28/2014 Time: 2:59 PM 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
REVIEWED BY RPA DATE 3-3-14
AUDITED BY GG DATE 3/3/14

GG.

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	0 m/s	3.79	5.31	+ 233 - 14:30 / 242 - 14:45
Direction* 10m (deg)	South	179.16	218	✱ 211 - 15:15
Ambient Temperature (°C)	21°	22.86	23.3	+ 224 - 15:30
Relative Humidity (%)	20%	22.80	22.1	+
Aspirated Temp 2m	21°	22.93	23.2	+
Aspirated Temp 10m	20°	21.67	22	+
Delta Temperature (°C)	N/A	-1.26	-1.21	+
Solar Radiation (w/m²)	Sunny Partly cloudy (Cloudy)	189.80	264	+
Barometric Pressure (mmHg)	N/A	679.39	679	+
Battery Voltage (V)	N/A	12.82	12.8	+
Time (MST)	N/A	?	15:00 - L.T.	+
Date	N/A	.	2/28/2014	+

GG.

*Direction wind is from

Comments/Unusual Occurrences or Weather: filled evap. pan & tipped precip. gauge (2 tips?) ✱ 0.004" of precip. unindicated @ 15:00 hrs. due to site visit. GG.

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

Site Operator Signature: Karen Ballard

AIR SCIENCES INC.

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

Date: 03/07/2014 Time: 9:19 Operator: Kanwi 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 3·10·14
AUDITED BY GG DATE 3/7/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	1 m/s	.92	0.92	+
Direction* 10m (deg)	SE	102.82	87.4	+
Ambient Temperature (°C)	19°	19.34	19.4	+
Relative Humidity (%)	35%	31.56	30	+
Aspirated Temp 2m	19°	18.68	18.4	+
Aspirated Temp 10m	18°	17.13	17.2	+
Delta Temperature (°C)	N/A	-1.55	-1.13	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	519.02	527	+
Barometric Pressure (mmHg)	N/A	681.04	681	+
Battery Voltage (V)	N/A	12.90	12.9	+
Time (MST)	N/A	9:22	9:30 L.T.	+
Date	N/A	03/07/2014	03/07/2014	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped precip. gauge (1 tip) * ~~*~~ 0.004" of precipitation indicated due to site visit/maintenance. GG

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

Site Operator Signature: Kanwi Ballard

AIR SCIENCES INC.

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

Date: 3/14/2014 Time: 14:00 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 3/20/14
AUDITED BY G.G. DATE 3/17/14

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	3	4.04	3.43
Direction* 10m (deg)	300	302.07	266
Ambient Temperature (°C)	19	19.36	18.9
Relative Humidity (%)	31	25.94	26.7
Aspirated Temp 2m	19	19.18	18.7
Aspirated Temp 10m	18.7	18.05	18
Delta Temperature (°C)	N/A	-1.12	-0.734
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	383.49	535
Barometric Pressure (mmHg)	N/A	682.48	683
Battery Voltage (V)	N/A	12.89	12.9
Time (MST)	N/A	14:03	14:00 L.T.
Date	N/A	3/14/2014	3/14/2014

G.G.
+ 270 - 13:30
287 - 13:45
* 289 - 14:15
+ 254 - 14:30

G.G.
426 - 13:30
502 - 13:45
* 406 - 14:15
490 - 14:30

*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: _____

AIR SCIENCES INC.

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

Date: 3/21/2014 Time: 12:56 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
REVIEWED BY WR DATE 3/25/14
AUDITED BY GG- DATE 3/24/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	3m/s	4.45	3.99	+
Direction* 10m (deg)		193.98	202	+
Ambient Temperature (°C)	25°	24.72	24.3	+
Relative Humidity (%)	15%	9.75	9.78	+
Aspirated Temp 2m	25°	24.74	24	+
Aspirated Temp 10m	24°	22.21	21.7	+
Delta Temperature (°C)	N/A	-2.54	-2.51	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	934.39	932	+
Barometric Pressure (mmHg)	N/A	681.39	681	+
Battery Voltage (V)	N/A	12.872	12.8	+
Time (MST)	N/A	12:58	13:00 C.T.	+
Date	N/A	03/21/2014	03/21/2014	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: Refilled evap. pan ✓ GG-

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

Site Operator Signature: Karen Ballard

AIR SCIENCES INC.

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

Date: 3/26/2014 Time: 8:10 Operator: Kami Balla G

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

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 4/2/14
AUDITED BY GG. DATE 3/31/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	1 m/s	1.43	2.54	+
Direction* 10m (deg)		145.41	160	+
Ambient Temperature (°C)	18°	17.84	17.7	+
Relative Humidity (%)	20%	24.61	24	+
Aspirated Temp 2m	18°	17.93	17.6	+
Aspirated Temp 10m	17°	16.88	16.7	+
Delta Temperature (°C)	N/A	-1.05	-0.886	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	368.47	558	+
Barometric Pressure (mmHg)	N/A	679.05	679	+
Battery Voltage (V)	N/A	12.94	12.9	+
Time (MST)	N/A	8:12	8:15 L.T.	+
Date	N/A	03/26/2014	03/26/2014	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped precip gauge * 0.008" of precip invalidated. G.G.

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

Site Operator Signature: Kami Balla G

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.

G.G. ★1

Date: 1/3/2013 Time: 0950 Operator: TEL/KLB

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 Mentime 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 particle trap cleaned
✓		5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY RPA DATE 1/7/14
AUDITED BY GG. DATE 1/3/14

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

GG. ★2 ★

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: Filter tape replaced, Self-test passed, Nozzle cleaned

★1 Wrong date – should be 1/3/2014!

★2 Following tape replacement, site operator left BAM in Maintenance Mode!

GG. S. Operator contacted; invalidations to follow...

Signature: [signature]

**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.

G.G. *

Date: 1/10/~~13~~ 14 Time: 11:57 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 1/20/14
AUDITED BY G.G. DATE 1/13/14

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:

G.G. * wrong date, it's 2014!

Signature: [signature]

**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: 1/24/13 Time: 0957 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). Last: 1/13/14 18:00 Flow Pump Off Failure
✓		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)

ASI on site! G.G. +

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. –

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 1/17/14
AUDITED BY G.G. – DATE 1/27/14

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. –

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. –

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 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: ERROR LOG REFLECTS ANNUAL SERVICES ON 1/13/14 – RPA

Signature: [signature]

**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: 1/31/14 Time: 9:43 Operator: TEW

I. **BAM SAMPLER** – Weekly Checks.

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

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

YES	NO	
✓		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

GG.

AIR SCIENCES INC.
REVIEWED BY RPA DATE 2/4/14
AUDITED BY GG. DATE 2/3/14

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

GG.

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: PM10 concentrations and flow invalidated @ 10:00 – 11:00 hrs. due to site visit/maintenance.

Signature: [illegible]

**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 2/4/14

AUDITED BY GG DATE 2/3/14

Met One BAM 1020 PM_{10}: S/N: M10846

Firmware:

Calibrator: Deltacal S/N: 1034 Exp. Aug 2014

Date of Flow Audit: 1/31/14

Time of Flow Audit: 9:55

	BAM	STD
Ambient Temperature (AT) °c	15.0	15.8
Berometric Pressure mmHg	680	679.5

GG- GG-

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)	
(1) Actual Flow	15	15.0	0	15.38	-2.34	✓
Acceptable Differential		***14.700 - 15.300***	***+/- 2%***	***14.250 - 15.750***	***+/- 5%***	
(2) Actual Flow	18.4	18.4	0	18.81	-2.18	✓
Acceptable Differential		***18.032 - 18.768***	***+/- 2%***	***17.480 - 19.320***	***+/- 5%***	
(3) Actual Flow	16.7	16.7	0	17.11	-2.4	✓
Acceptable Differential		***16.336 - 17.034***	***+/- 2%***	***15.865 - 17.535***	***+/- 5%***	

Calculations:

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

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

	BAM	
(2) Leak Test	0.1	**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

WEST PLANT

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

AIR SCIENCES INC.

Date: 2-7-14 Time: 9:55 Operator: K Back

I. **BAM SAMPLER** – Weekly Checks.

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

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

YES	NO	66 -
	✓	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 2-10-14
AUDITED BY 66 - DATE 2/10/14

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	66 -
	✓	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	66 -
	✓	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	66 -
	✓	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 Back

WEST PLANT

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

AIR SCIENCES INC.

Date: 2·13·2014 Time: 3:01 PM 6.6- Operator: Kami 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). 2/6 → 2/13 BAM cal Membrane 5/6
✓		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)

6.6. ✓

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

6.6-

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 2/14/14
AUDITED BY 6.6. DATE 2/14/14

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

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.*

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.*

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)

**Comments/Unusual Occurrences: _____

Signature: Kami Bellard

**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: 02/20/2014 Time: 1:57 pm 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). 2/13 to 2/20 BAM Cal Membrane 5%
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

GG-

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 2/21/14
AUDITED BY GG- DATE 2/21/14

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: _____

Signature: Kami 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.

Date: 02/28/2014 Time: 1502 Operator: Kami Bailey

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. GG. ✓
✓		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). 2/18-2/28 → BAM Cal Membrane 5%
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

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

GG –

AIR SCIENCES INC.
RPA 3-3-14
REVIEWED BY DATE
AUDITED BY GG – DATE 3/3/14

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

GG -

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: * PM10 conc. + flow invalidated @ 16:00hrs. due to site check / maintenance. GG

Signature: Kami Bailey

**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: 3/07/2014 Time: 9:24 Operator: Kami 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). 03/02 - 03/07 → BAM Cal Membrane ✓ GG
✓		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 3·10·14
AUDITED BY GG DATE 3/7/14

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: Self Test "PASSED"

* PM10 conc. + flow invalidated for 10:00 hrs. due to site visit/maintenance. GG

Signature: Kami Bellard

**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: 3/14/2014 Time: 14:04 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). 3/14 01:58 "BAM Cal Membrane Sy."
✓		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)

GG. ✓

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

YES NO 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. DENVER • PORTLAND

REVIEWED BY RPA DATE 3/20/14

AUDITED BY GG. DATE 3/17/14

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.

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 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.*

YES NO 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: _____

Signature: TLee

**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: 3/21/2014 Time: 13:00 Operator: K Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 3/16 → 3/21 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)

GG. ✓

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

GG.

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY WR DATE 3/25/14
AUDITED BY GG. DATE 5/24/14

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

GG.

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)

GG.

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)

GG.

**Comments/Unusual Occurrences: _____

Signature: Karen 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.

Date: 3/26/2014 Time: 8:28 Operator: Karri Baca

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 3/22 - 3/26 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)

G.G. ✓

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 4/2/14
AUDITED BY G.G. DATE 3/31/14

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: _____

Signature: Karri Baca

**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 4/2/14
AUDITED BY GG. DATE 3/31/14

Met One BAM 1020 PM_{10}: S/N: 8712
Firmware:
Calibrator: Delta Cal S/N: 1034 Exp 8/2014

Date of Flow Audit: 03/27/2014 *1 GG.
Time of Flow Audit: 10:52

	BAM	STD
Ambient Temperature (AT) °c	20.9	19.6
Berometric Pressure mmHg	683	686

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
			GG.		GG.
(1) Actual Flow	15	15.0	0	15.62	-3.97
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	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	17.28	-3.36 ?
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	.3	**Should be < 1.0 LPM**

Comments/Abnormalities: Self Test "Passed"
*1 ~~Date suggests that the date should be 03/28/2014!~~ GG.
*2 ~~PM10 concentration & flow invalidated for 11:00-12:00~~ hrs. on 03/28/2014! GG.

Signature: Karen Ballard

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

G.G. *1

Date: 1/3/2013 Time: 09:55 Operator: TEL/KLB

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 and 2.5 cyclone particle trap cleaned
✓		5. Inlet nozzle and nozzle are cleaned

*2

AIR SCIENCES INC.
DENVER • PORTLAND

RPA — REVIEWED BY — DATE 1/7/14

AUDITED BY G.G. — DATE 1/3/14

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

*2

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. *1 Comments/Unusual Occurrences: Filter tape replaced, nozzle cleaned, passed self-test wrong date - should be 1/3/2014!

*2 1/3/2014 10:00hrs. Concentration unvalidated due to Maintenance.

Signature: [signature]

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

WEST PLANT

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

AIR SCIENCES INC.

GG - ✗

Date: 1/10/14 Time: 11:53 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 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 and 2.5 cyclone particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
REVIEWED BY RPA DATE 1/20/14
AUDITED BY GG. DATE 1/13/14

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

GG.

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)

GG. ✗ **Comments/Unusual Occurrences: wrong date, it's 2014!

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.
DENVER • PORTLAND

Date: 1/24/14 Time: 09:56 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). Last: 1/13/14 16:01 Flow AT Disconnected
✓		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)

ASI on site! GG +

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
RPA DATE 1/27/14
GG DATE 1/27/14

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

GG

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: ERROR LOG REFLECTS ANNUAL SERVICES BY ASI ON 1-13-14 - RPA

Signature: [signature]

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

WEST PLANT

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

AIR SCIENCES INC.

Date: 1/31/14 Time: 10:00 Operator: TEW

I. **BAM SAMPLER** – Weekly Checks.

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

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

YES	NO	
✓		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

GG.

AIR SCIENCES INC
REVIEWED BY: RPA DATE: 2/4/14
AUDITED BY: GG. DATE: 2/3/14

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

GG.

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)

GG.

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)

GG.

**Comments/Unusual Occurrences: PM2.5 concentration and flow invalidated @ 11:00hrs. due to site visit/maintenance.

Signature: [illegible]

**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

AIR SCIENCES INC
RPA 2/4/14
DATE
AUDITED BY GG. DATE 2/3/14

Met One BAM 1020 $PM_{2.5}$: S/N: 8792

Firmware:

Calibrator: Delta Cal S/N: 1034 Aug 2014

Date of Flow Audit: 1/31/14

Time of Flow Audit: 10:02

	BAM	STD
Ambient Temperature (AT) °c	15.3	16.0
Berometric Pressure mmHg	682	679.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)	
			6.6 -		6.6.	
(1) Actual Flow	15	15.0	0	15.13	-0.86	✓
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*	
(2) Actual Flow	18.4	18.4	0	18.72	-1.71	✓
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*	
(3) Actual Flow	16.7	16.7	0	16.89	-1.12	✓
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	0.1	**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

WEST PLANT

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

AIR SCIENCES INC.

Date: 2-7-14 Time: 9:50 Operator: K. Beck

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months). BAM Cal
✓		6. Error log was checked (F3), and errors followed up on (see manual). & 2/6, 2/5, 2/4, 2/2 5% 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	GG.
	✓	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 2-10-14

AUDITED BY GG DATE 2/10/14

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: _____

Signature: K. Beck

**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: 2·13·2014 Time: 3:02 PM GG- 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).
✓		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.
RPA DENVER • PORTLAND 2/14/14
REVIEWED BY DATE
GG- DATE 2/14/14

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

GG-

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: _____

Signature: Kami Bollard

**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: 2/20/2014 Time: 14:00 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). 2/18 → Flow AT Disconnected
✓		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.
RPA DENVER • PORTLAND 2/21/14
REVIEWED BY
AUDITED BY 2/21/14

II. **BAM SAMPLER** – Routine Maintenance (every 2 months). Check yes if maintenance was perfomed 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: _____

**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: 02/28/2014 Time: 18:05 Operator: Kevin Ballard

I. **BAM SAMPLER** – Weekly Checks.

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

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

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

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY RPA DATE 3/3/14
AUDITED BY GG- DATE 3/3/14

GG-

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

GG-

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)

GG-

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)

GG-

**Comments/Unusual Occurrences: * PM2.5 conc + flow invalidated @ 16:00hrs. due to site visit / maintenance. GG-

Signature: Kevin Ballard

**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: M8/93

Firmware:

Calibrator: Delta Cal S/N: 1032 Exp. 8/2014

AIR SCIENCES INC.

REVIEWED BY: KPA DATE 3/3/14

AUDITED BY: GG DATE 3/3/14

Date of Flow Audit: 02/28/2014

Time of Flow Audit: 15:09

	BAM	STD
Ambient Temperature (AT) °c	23.6	23.1
Berometric Pressure mmHg	1082	679.5

	Set Point (lpm)	BAM	% Diff (1) GG	STD Flow Meter	% Diff (2) GG
(1) Actual Flow	15	15.0	0 ✓	15.09	-0.60 ✓
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0 ✓	18.66	-1.39 ✓
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0 ✓	16.86	-0.95 ✓
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:

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

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

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

Comments/Abnormalities: Self Test = "PASSED"

Signature: John McCleary

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: 03/07/2014 Time: 9:30 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). GG. ✓
✓		6. Error log was checked (F3), and errors followed up on (see manual). 02/28/2014 → Maintenance
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

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

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RAA DATE 3·10·14
AUDITED BY GG. DATE 3/7/14

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: Self Test "PASSED"

* PM 2.5 conc. + flow invalidated for 10:00 hrs. due to site visit/maintenance. GG.

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: 3/14/14 Time: 14:00 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). 3/14 02:45 "Flow AT Disconnected" 3/12 15:58 "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)

GG ✓

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 3/20/14

AUDITED BY GG DATE 3/17/14

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

GG

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: _____

Signature: TEL

**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: 3/21/2014 Time: 13:02 Operator: Kane 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). GG.
✓		6. Error log was checked (F3), and errors followed up on (see manual). 3/14 → 3/21 BAM Cal Membrane 5% ✓
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

YES	NO	GG.
	✓	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 3/25/14
AUDITED BY GG. DATE 3/24/14

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: _____

Signature: Kane B

**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: 3/26/2014 Time: 8:24 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). 3/22 → 3/26 BAM Col 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)

G.G. ✓

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 Perfomed
	✓	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 4/2/14
AUDITED BY G.G. DATE 3/31/14

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: _____

Signature: Kam Bell

**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

AIR SCIENCES INC

REVIEWED BY RPA DATE 4/2/14

AUDITED BY G.G. DATE 5/5/14

Met One BAM 1020 $PM_{2.5}$: S/N: 8193

Firmware:

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

Date of Flow Audit: 03/27/2014 *1 G.G.

Time of Flow Audit: 10:58

	BAM	STD
Ambient Temperature (AT) °c	21.9	19.2
Berometric Pressure mmHg	690	686

✓

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0 ✓	15.08	-0.53 ✓
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 ✓	16.85	-0.89 ✓
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: Self Test "Passed"

*1 Date suggests that the date should be 03/28/2014! G.G.

*2 PM2.5 concentration & flow invalidated for 11:00-12:00 hrs. on 03/28/2014! G.G.

Signature: Kami Ballard

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

Appendix H: East Plant Meteorological Site Check Forms

AIR SCIENCES INC.

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

G.G. *1

Date: 1/3/13 Time: 09:20 Operator: TEW / KLB

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 1/7/14
AUDITED BY GG. DATE 1/3/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	8	3.68	3.99	+
Direction* 10m (deg)	45	77.39	56.7	*2
Ambient Temperature (°C)	15	10.57	10.5	+
Relative Humidity (%)	20	31.6	51.6	+
Aspirated Temp 2m	15	10.15	10.1	+
Aspirated Temp 10m	14.5	9.63	9.55	+
Delta Temperature (°C)	N/A	-0.52	-0.539	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	388.51	373	+
Barometric Pressure (mmHg)	N/A	654.07	654	+
Battery Voltage (V)	N/A	12.99	13	+
Time (MST)	N/A	09:28	09:30 L.T.	+
Date	N/A	1/3/13 *1	1/3/14	+

*Direction wind is from

GG Comments/Unusual Occurrences or Weather:
*1 - wrong date - should be 1/3/14!

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

*2 - WD more than 20° due to relatively low WS's

Site Operator Signature: T. [illegible], K. Ballard

AIR SCIENCES INC.

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

GG ✱'

Date: 1/10/13 4 Time: 12:20 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)	0.2	1.43	2.65	+
Direction* 10m (deg)	320	234	227	+
Ambient Temperature (°C)	15	11.89	12.1	+
Relative Humidity (%)	30	27.84	27.8	+
Aspirated Temp 2m	15	10.86	11.2	+
Aspirated Temp 10m	14.5	10.02	10.2	+
Delta Temperature (°C)	N/A	-0.64	-1.01	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	613.75	615	+
Barometric Pressure (mmHg)	N/A	653.11	653	+
Battery Voltage (V)	N/A	12.97	13	+
Time (MST)	N/A	1323	13:30 L.T.	+
Date	N/A	1/10/13	1/10/14	+

GG ✱'

*Direction wind is from

GG ✱' Comments/Unusual Occurrences or Weather: wrong date, it's 2014!

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

REVIEWED BY RPA DATE 1/20/14

AUDITED BY GG DATE 1/13/14

AIR SCIENCES INC.

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

Date: 1/24/14 Time: 10:55 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.
RECEIVED BY RPA DATE 1/27/14
DATE 1/27/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	12	8.29	8.94	+
Direction* 10m (deg)	30	54.96	51.8	+
Ambient Temperature (°C)	10	7.78	7.93	+
Relative Humidity (%)	30	28.83	28.8	+
Aspirated Temp 2m	10	7.81	7.84	+
Aspirated Temp 10m	9.8	7.02	7.1	+
Delta Temperature (°C)	N/A	-0.79	-0.734	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	502.67	501	+
Barometric Pressure (mmHg)	N/A	659.79	660	+
Battery Voltage (V)	N/A	13.04	13.1	+
Time (MST)	N/A	10:59	11:00 - L.T.	+
Date	N/A	1/24/14	1/24/14	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: High winds

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

Site Operator Signature: [signature]

AIR SCIENCES INC.

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

Date: 1/31/14 Time: 11:40 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 2/4/14
AUDITED BY G.G. DATE 2/3/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	15	4	4.75	+
Direction* 10m (deg)	270	217	205	+
Ambient Temperature (°C)	10	11.65	11.7	+
Relative Humidity (%)	28	39.75	39.3	+
Aspirated Temp 2m	10	11.51	11.5	+
Aspirated Temp 10m	9.5	16.92	11	+
Delta Temperature (°C)	N/A	-5.54	-0.462	+
Solar Radiation (w/m²)	Sunny Partly cloudy (Cloudy)	422.83	440	+
Barometric Pressure (mmHg)	N/A	649	649	+
Battery Voltage (V)	N/A	12.94	12.9	+
Time (MST)	N/A	12:16	12:15 L.T.	+
Date	N/A	1/31/14	1/31/14	+

*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: _____

AIR SCIENCES INC.

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

Date: 2-7-14 Time: 11:10 Operator: K Baak

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
ISSUED BY RPA DATE 2-10-14
CHECKED BY GG DATE 2/10/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	<1mph	.31	1.2	+
Direction* 10m (deg)	SW	215	215	+
Ambient Temperature (°C)	50°F	8.00°C	8.31	+
Relative Humidity (%)	50%	62%	61.6	+
Aspirated Temp 2m	50°F	7.35°C	7.51	+
Aspirated Temp 10m	50°F	6.87°C	6.92	+
Delta Temperature (°C)	N/A	-.64	-0.591	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	334	342	+
Barometric Pressure (mmHg)	N/A	654.39	654	+
Battery Voltage (V)	N/A	13	13	+
Time (MST)	N/A	11:16	11:15 _ L.T.	+
Date	N/A	2-7-14	2-7-14	+

*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: K Baak

AIR SCIENCES INC.

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

Date: 02-13-2014 Time: 2:04 * PM 14:04 GG- Operator: Kami Ballard

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

AIR SCIENCES INC. DENVER • PORTLAND
RECEIVED BY WR DATE 2-14-14
REVIEWED BY GG- DATE 2/14/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	2. m/s	1.74	3.86	+
Direction* 10m (deg)	West	279.61	272	+
Ambient Temperature (°C)	22°	20.75	21	+
Relative Humidity (%)	15%	15.85	15.7	+
Aspirated Temp 2m	22°	19.92	20.2	+
Aspirated Temp 10m	21°	19.39	19.5	+
Delta Temperature (°C)	N/A	-0.53	-0.611	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	755.98	678	+
Barometric Pressure (mmHg)	N/A	653.84	654	+
Battery Voltage (V)	N/A	12.79	12.8	+
Time (MST)	N/A	2:09 * PM	14:15 L.T.	+
Date	N/A	02-13-2014	02-13-2014	+

*Direction wind is from

0.024" of precip. inundidated @ 14:15hrs. 02/13/14. GG. 14:09

Comments/Unusual Occurrences or Weather: Tipped precip. gauge. (bucket tipped 5 times)

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

Site Operator Signature: Kami Ballard

AIR SCIENCES INC.

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

Date: 2/20/2014 Time: 2:23 pm Operator: Kami Ballard

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

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY RPA DATE 2/21/14
AUDITED BY GG. DATE 2/21/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	1 m/s	.41	2.73	+
Direction* 10m (deg)	East	97.17	42.4	✗
Ambient Temperature (°C)	19°	17.38	16.9	+
Relative Humidity (%)	10%	8.15	8.14	+
Aspirated Temp 2m	19°	17.15	16.8	+
Aspirated Temp 10m	18°	15.70	15.4	+
Delta Temperature (°C)	N/A	-1.45	-1.35	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	764.31	644	✗
Barometric Pressure (mmHg)	N/A	653.61	654	+
Battery Voltage (V)	N/A	12.88	12.9	+
Time (MST)	N/A	2:25 pm	14:30 L.T.	+
Date	N/A	02/20/2014	02/20/2014	+

GG.
654 - 14:00
54.6 - 14:15
355 - 14:45
289 - 15:00

GG.
769 - 14:00
683 - 14:15
603 - 14:45
609 - 15:00

*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: Kami Ballard

AIR SCIENCES INC.

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

Date: 2/27/2014 Time: 1:57 pm GG- 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
REVIEWED BY KPA DATE 3/3/14
AUDITED BY GG- DATE 3/3/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	7 m/s	5.8	3.4	+
Direction* 10m (deg)	SW	232.46	236	+
Ambient Temperature (°C)	18°	17.46	16.8	+
Relative Humidity (%)	25%	36.74	37.6	+
Aspirated Temp 2m	18°	17.28	16.4	+ GG-
Aspirated Temp 10m	17°	15.82	15.4	+
Delta Temperature (°C)	N/A	-1.46	-0.931	+ 815 - 13:30
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	944, 142	770	★ 538 - 13:45
Barometric Pressure (mmHg)	N/A	650.78	651	+ 753 - 14:15 228 - 14:30
Battery Voltage (V)	N/A	12.84	12.8	+
Time (MST)	N/A	2:00 pm	14:00 L.T.	+
Date	N/A	2/27/2014	2/27/2014	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: _____

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

Site Operator Signature: Karen Ballard

AIR SCIENCES INC.

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

Date: 3/07/2014 Time: 9:58 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.
REVIEWED BY RPA DATE 3-10-14
AUDITED BY G.G. DATE 3/7/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	2m/s	1.68	1.86	+
Direction* 10m (deg)	SW	236.12	246	+
Ambient Temperature (°C)	17°	16.44	17.5	+
Relative Humidity (%)	30%	30.69	28.3	+
Aspirated Temp 2m	17°	15.40	15.7	+
Aspirated Temp 10m	16°	15.05	15.2	+
Delta Temperature (°C)	N/A	-0.35	-0.481	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	678.47	663	+
Barometric Pressure (mmHg)	N/A	651.19	651	+
Battery Voltage (V)	N/A	12.85	12.9	+
Time (MST)	N/A	10:00	10:00 L.T.	+
Date	N/A	03/07/2014	03/07/2014	+

*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: Kami BaClard

AIR SCIENCES INC.

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

Date: 3/14/14 Time: 13:20 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 3/20/14
AUDITED BY [illegible] DATE 5/17/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	2	3.43	2.58	+
Direction* 10m (deg)	315	305.36	302	+
Ambient Temperature (°C)	17	15.15	15.4	+
Relative Humidity (%)	30	31.96	31	+
Aspirated Temp 2m	17.2	14.49	14.5	+
Aspirated Temp 10m	17.5	13.95	14	+
Delta Temperature (°C)	N/A	-0.536	-0.532	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	437.91	417	+
Barometric Pressure (mmHg)	N/A	652.58	653	+
Battery Voltage (V)	N/A	12.86	12.9	+
Time (MST)	N/A	13:25	13:30 L.T.	+
Date	N/A	3/14/2014	3/14/2014	+

*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: 3/21/2014 Time: 10:18 Operator: Kami BaCard

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

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY WR DATE 3/25/14
AUDITED BY GG- DATE 3/24/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	2 m/s	1.79	2.29	+
Direction* 10m (deg)	West	246.24	245	+
Ambient Temperature (°C)	20°	12.23	18.2	+
Relative Humidity (%)	15°	12.36	12	+
Aspirated Temp 2m	20°	16.74	16.7	+
Aspirated Temp 10m	19°	15.90	16	+
Delta Temperature (°C)	N/A	-0.84	-0.676	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	829.04	800	+
Barometric Pressure (mmHg)	N/A	652.09	652	+
Battery Voltage (V)	N/A	12.83	12.8	+
Time (MST)	N/A	10:20	10:15 - L.T.	+
Date	N/A	03/21/2014	03/21/2014	+

*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: Kami BaCard

AIR SCIENCES INC.

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

*1 GG.

Date: 3/27/2014 Time: 11:53 Operator: Kami Ballard

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

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY RPA DATE 4/2/14
AUDITED BY GG. DATE 3/31/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	4m/s	3.07	2.29	+
Direction* 10m (deg)	180°	174.98°	287	*
Ambient Temperature (°C)	24°	14.26	16.5	+
Relative Humidity (%)	15%	23%	24%	+
Aspirated Temp 2m	24°	15.81°	15.2	+
Aspirated Temp 10m	23°	13.67	13.7	+
Delta Temperature (°C)	N/A	-2.14	-1.45	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	976.55	975	+
Barometric Pressure (mmHg)	N/A	655.38	655	+
Battery Voltage (V)	N/A	12.85	12.9	+
Time (MST)	N/A	11:54	12:00 L.T.	+
Date	N/A	03/27/2014	03/28/2014	*1

GG.
258 - 11:30
292 - 11:45
230 - 12:15
238 - 12:30

*1 - Data suggests the date should be 3/28/2014! GG.
*2 - 0.012" of precip invalidated! GG.

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped gauge (3 tips) & refilled evap. *2 GG.

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

Site Operator Signature: Kami Ballard

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.

G.G. - *

Date: 12/3/13 Time: 09:25 Operator: TEW / KLB

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.*

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 1/7/14
AUDITED BY G.G. DATE 1/3/14

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:

G.G. * - wrong date - should be 1/3/14!
1/3/14 10:00 hr PM10 concentration invalidated due to Maintenance.

Signature: TEW, KBR

**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

G.G. ☆

Date: 1/10/14 Time: 14:00 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). 1/3 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

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:

G.G. ☆ Wrong date, it's 2014!

Signature: [signature]

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

AIR SCIENCES INC
DENVER • PORTLAND

REVIEWED BY RPA DATE 1/20/14

AUDITED BY G.G. - DATE 1/13/14

EAST PLANT

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

AIR SCIENCES INC.

Date: 1/24/14 Time: 11:03 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). Last: Tape Latch 1/14/14 16:04
✓		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)

ASI on site! GG - ☆

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.
DENVER • PORTLAND
REVIEWED BY RPA DATE 1/27/14
AUDITED BY GG - DATE 1/27/14

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

GG.

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: ERROR LOG REFLECTS ASI ANNUAL SERVICES ON 1/14/14 - RPA

Signature: T Lee

**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: 1/31/14 Time: 11:45 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). 1/25/14 BAM Cal Membrane 5% 02:58
✓		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

GG.

AIR SCIENCES INC
RPA DATE 2/4/14
GG. DATE 2/3/14

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

GG.

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: PM10 concentration and flow invalidated @ 12:00 - 13:00 hrs. due to site check/maintenance.

Signature: T Wei

**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 2/4/14

AUDITED BY G.G. DATE 2/3/14

Met One PM_{10}: S/N: M8714

Firmware:

Calibrator: Delta Cal S/N: 1034 Exp. Aug 2014 RPA

Date of Flow Audit: 1/31/14

Time of Flow Audit: 12:10

	BAM	STD
Ambient Temperature (AT) °c	12.1	12.3
Berometric Pressure mmHg	654	648.5 * RPA

G.G. G.G.

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0	15.09	0.6 ✓
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0	18.57	-0.92 ✓
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0	16.77	-0.42 ✓
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	0.3	**Should be < 1.0 LPM** ✓

Comments/Abnormalities: Self-test passed

* NEED TO KEEP AN EYE ON THE BP - 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: 2-7-14 Time: 11:15 Operator: K Baak

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.*

66.

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 2-10-14
AUDITED BY 66- DATE 2/10/14

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

66.

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.*

66.

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.*

66.

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 Baak

EAST PLANT

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

AIR SCIENCES INC.

Date: 2·13·14 Time: 2:20 PM 14:20 GG- 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). GG.
✓		6. Error log was checked (F3), and errors followed up on (see manual). 2/09 → 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.*

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
DENVER • PORTLAND
WR 2-14-14
DATE
AUDITED BY GG- DATE 2/14/14

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 tape; ran self-test.

GG. PM10 concentration & flow invalidated for 15:00 hrs. 02/13/14.

Signature: Karen Bellard

**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: 2/20/2014 Time: 2:26 PM Operator: Kami BaClard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 2/13 → Maintenance ✓ 66.
✓		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.*

66.

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 2/21/14
AUDITED BY 66. DATE 2/21/14

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

66.

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.*

66.

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.*

66.

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 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.

Date: 02/27/2014 Time: 2:01 PM GG- 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). GG- ✓
✓		6. Error log was checked (F3), and errors followed up on (see manual). 2/13 Maintenance
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

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

GG-

AIR SCIENCES INC.
REVIEWED BY RPA DATE 3/3/14
AUDITED BY GG- DATE 3/3/14

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

GG-

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: * PM10 conc. + flow invalidated @ 15:00hrs. due to site visit/maintenance. GG-

Signature: Karen Bell

**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

Met One PM_{10}: S/N: 8714
Firmware:
Calibrator: Delta Cal S/N: 1032 Exp. 8/2014

Date of Flow Audit: 2/27/2014
Time of Flow Audit: 2:07

AIR SCIENCES INC
REVIEWED BY RPA DATE 3/3/14
AUDITED BY GG- DATE 3/3/14

	BAM	STD
Ambient Temperature (AT) °c	17.7	17.2
Berometric Pressure mmHg	654	651

GG- GG-

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0 ✓	15.17	-1.12 ✓
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.3	-0.54 ✓	18.52	-1.19 ✓
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0 ✓	16.82	-0.71 ✓
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	.6	**Should be < 1.0 LPM** ✓

Comments/Abnormalities: Self Test - "Passed"

Signature: Kam Ballard

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 3/07/2014 Time: 10:01 Operator: Karen Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 2/27 → Maintenance ✓ G.G.
✓		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
RPA 3·10·14
DATE
G.G. DATE 3/7/14

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: _____

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: 3/14/2014 Time: 13:28 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). GG.
✓		6. Error log was checked (F3), and errors followed up on (see manual). 2/27 Maintance ✓
✓		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 3/20/14
AUDITED BY GG – DATE 5/17/14

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: _____

Signature: T Wilhi

**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: 3/21/2014 Time: 10:24 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). GG.
✓		6. Error log was checked (F3), and errors followed up on (see manual). 2/27 → Maintenance ✓
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

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 WR DATE 3/25/14
AUDITED BY GG. DATE 3/24/14

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

GG.

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: _____

Signature: Kami 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: 3/27/2014 Time: 11:56 Operator: K. Balld

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). G.G.
✓		6. Error log was checked (F3), and errors followed up on (see manual). 2/27 → Maintenance ✓
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

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

G.G.

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY RPA DATE 4/2/14
AUDITED BY GG DATE 3/31/14

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: *1 - Data suggests the date should be 3/28/2014! G.G.
PM10 concentration & flow invalidated for 12:00-13:00hrs. G.G.

Signature: Kami Balld

**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

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

Firmware:

Calibrator: Delta Cal S/N: 1034 Exp. 08/2014

AIR SCIENCES INC.

REVIEWED BY RPA DATE 4/2/14

AUDITED BY G.G. DATE 3/31/14

Date of Flow Audit: 3/28/2014

Time of Flow Audit: 11:55

	BAM	STD
Ambient Temperature (AT) °c	17.0	16.3
Berometric Pressure mmHg	669	655.5

* G.G.

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
			G.G.		G.G.
(1) Actual Flow	15	15.0	0 ✓	15.24	-1.57 ✓
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0 ✓	18.72	-1.71 ✓
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0 ✓	16.94	-1.42 ✓
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	0.6	**Should be < 1.0 LPM** ✓

Comments/Abnormalities: Self-test passed

* BP slightly off! G.G.

Signature: [illegible]

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

GG - *

Date: 1/3/13 Time: 0930 Operator: TEW/KLB

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). 12/27 11:23 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 and 2.5 cyclone particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 1/7/14
AUDITED BY GG. DATE 1/3/14

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

GG -

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: Self-test passed

GG - * wrong date - should be 1/3/14!
1/3/14 10:00 hr. PM2.5 concentration invalidated due to maintenance.

Signature: [signature], KPSCO

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

GG. *

EAST PLANT

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

AIR SCIENCES INC.

Date: 1/10/13 A Time: 14:00 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). ~~1/03 Maintenance~~ 9:03 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) 5%

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

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

GG.

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:

GG. * wrong date, it's 2014!

Signature: TEW

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

AIR SCIENCES INC.

REVIEWED BY RPA DATE 1/20/14

AUDITED BY GG. DATE 1/13/14

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 1/24/14 Time: 10:57 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). Last: 1/14/14 17:00 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)

ASI on site! G.G.

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 and 2.5 cyclone particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 1/27/14
AUDITED BY G.G. DATE 1/27/14

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: ERROR LOG REFLECTS MANUAL SERVICES BY ASI ON 1/14/14 - RPA

Signature: [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: 1/31/14 Time: 11:40 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). 1/14 ~~BAM Cal Membrane 5%~~ 17:00 maintenance
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

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

GG.

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 2/4/14
AUDITED BY GG. DATE 2/3/14

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

GG.

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: PM 2.5 concentration and flow invalidated @ 13:00 hrs. due to site visit/maintenance.

Signature: TEW

**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 6466
Firmware:
Calibrator: Delta Cal S/N: 1034 EXP. AUG 2014

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY RPA DATE 2/4/14
VERIFIED BY GG DATE 2/3/14

Date of Flow Audit: 1/31/14
Time of Flow Audit: 12:00

	BAM	STD
Ambient Temperature (AT) °c	12.1	12.03
Berometric Pressure mmHg	650	649

	Set Point (lpm)	BAM	% Diff (1) GG	STD Flow Meter	% Diff (2) GG	
(1) Actual Flow	15	14.90	-0.67	14.90	0	✓
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*	
(2) Actual Flow	18.4	18.4	0	18.35	0.27	✓
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*	
(3) Actual Flow	16.7	16.7	0	16.69	0.06	✓
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	0.3	**Should be < 1.0 LPM** ✓

Comments/Abnormalities: seems to fluctuate excessively
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.
DENVER • PORTLAND

Date: 2-7-14 Time: 11:15 Operator: K Baak

I. **BAM SAMPLER** – Weekly Checks.

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

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

YES	NO	GG.	
	✓		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 2-10-14
DATE
GG. DATE 2/10/14

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: _____

Signature: K Baak

**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: 02·13·2014 Time: 2:17 PM * 14:17 GG- Operator: Kami 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). GG-
✓		6. Error log was checked (F3), and errors followed up on (see manual). 02/09 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.*

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 WR DATE 2-14-14
AUDITED BY GG- DATE 2/14/14

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 tape; Ran Self-Test

GG- PM2.5 concentration & flow invalidated for 15:00 hrs. 02/13/14.

Signature: Kami Bellard

**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: 2/20/2014 Time: 2:28 pm Operator: Kami BaCond

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). 2/13 → Tape break
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

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

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY RPA DATE 2/21/14
AUDITED BY DATE 2/21/14

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: Kami Bal

**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: 2/27/2014 Time: 2:03 pm GG- Operator: Karen Ba[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). GG-
✓		6. Error log was checked (F3), and errors followed up on (see manual). 2/13 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

GG-

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY RPA DATE 3/3/14
AUDITED BY GG. DATE 3/3/14

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

GG-

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)

GG-

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)

GG-

**Comments/Unusual Occurrences: * PM2.5 conc. + flow invalidated @15:00hrs. due to site visit / maintenance. GG-

Signature: [signature]

**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 3/3/14

AUDITED BY G.G. DATE 3/3/14

Met One $PM_{2.5}$: S/N: 6466

Firmware:

Calibrator: Delta Cal S/N: 1032 Exp 8/2014

Date of Flow Audit: 2/27/2014

Time of Flow Audit: 2:07

	BAM	STD
Ambient Temperature (AT) °c	18.1	17.3
Berometric Pressure mmHg	651	651.0

	Set Point (lpm)	BAM	% Diff (1) G.G.	STD Flow Meter	% Diff (2) G.G.
(1) Actual Flow	15	15.1	0.67 ✓	15.02	0.53 ✓
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0 ✓	18.29	0.60 ✓
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0 ✓	16.64	0.36 ✓
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	.7	**Should be < 1.0 LPM** ✓

Comments/Abnormalities: Self Test - "Passed"

Signature: Kanu Bell

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: 3/07/2014 Time: ~~9:18~~ 10:03 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). 2/27 → Maintenance
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

GG. ✓

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 3-10-14
AUDITED BY GG. DATE 3/7/14

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

GG

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: _____

Signature: Kami 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: 3/14/14 Time: 13:25 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). 2/27 Maintenance ✓ GG.
✓		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 and 2.5 cyclone particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY RPA DATE 3/20/14
AUDITED BY GG. DATE 3/17/14

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: _____

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: 3/21/2014 Time: * ? 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). GG.
✓		6. Error log was checked (F3), and errors followed up on (see manual). 2/27 – Maintenance ✓
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

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

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REVIEWED BY WR DATE 3/25/14

AUDITED BY GG. DATE 3/24/14

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

GG.

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:

* Time is missing! Should be around 10:30... GG.

Signature: Kami Ballard

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 3/28/2014 Time: 11:55 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). G.G.
✓		6. Error log was checked (F3), and errors followed up on (see manual). 2/27 Maintenance ✓
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

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

GG-

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REVIEWED BY RPA DATE 4/2/14
AUDITED BY GG- DATE 3/31/14

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

GG-

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: PM 2.5 concentration & flow invalidated for 13:00 hr. GG-

Signature: TEW

**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

AUDITED BY GG DATE 3/31/14

Met One $PM_{2.5}$: S/N: 6466

Firmware:

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

Date of Flow Audit: 3/28/14

Time of Flow Audit: 12:00

	BAM	STD
Ambient Temperature (AT) °c	17.5	16.7
Berometric Pressure mmHg	655	655.5

GG - GG -

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0	14.86	0.94
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0	18.17	1.27
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.8	0.60	16.52	1.69
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	0.7	**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

Appendix J: East Plant SO_2, NO_x, and O_3 Site Check and Audit Forms

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REVIEWED BY WR DATE 2-7-14
AUDITED BY RPA DATE 1-31-14

AIR SCIENCES INC.
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Resolution EAST
SO_2 Monitoring Form

Site Operator: R. ATTRIDGE

Date: 1-31-2014

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

Instrument Check Start Time	1115
Instrument Check Stop Time	1145
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	26.6
Instrument Range	0-500 ppb
Source Gas Conc.	40ppm SO2

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	-0.277	-0.037	± 3% of Full Scale (-15 to 15 PPB)	NO
400	402.26	400.34	≤ ± 10% (360 to 440 PPB)	NO

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	-0.037	-0.06	± 2	NO
400	400.34	400.77	± 2	NO

Verify Instrument Parameters:

Sample Flow (450 ± 45 cc/ min)	445	Sample Press. (Amb ± 2 in-Hg)	25.6
UV Lamp (1000 – 4800 mV)	2476.4	Lamp Ratio (30 – 120%)	69
Slope (1 ± 0.3)	1.227	BOX Temp. (Ambient ± 5°C)	34.2
Offset (0-100)	18.1	HVPS (400 – 900 V)	571

Operator comments/observations: NONE

Operator Signature: Rory Attridge

AIR SCIENCES INC.

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Resolution EAST

SO_2 Monitoring Form

Site Operator: R. ATTRIDGE Date: 2-10-14

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

Instrument Check Start Time	0850
Instrument Check Stop Time	0930
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	24.8
Instrument Range	0-500 ppb
Source Gas Conc.	40ppm SO

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	0.042	-0.00	± 3% of Full Scale (-15 to 15 PPB)	NO
100	101.11	100.60	≤ ± 10% (90 to 110 PPB)	NO

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	100.60	100.90	± 2	NO
100	-0.00	0.18	± 2	NO

Verify Instrument Parameters:

Sample Flow (450 ± 45 cc/ min)	499	Sample Press. (Amb ± 2 in-Hg)	25.7
UV Lamp (1000 – 4800 mV)	2442.2	Lamp Ratio (30 – 120%)	68
Slope (1 ± 0.3)	1.261	BOX Temp. (Ambient ± 5°C)	33.4
Offset (0-100)	18.0	HVPS (400 – 900 V)	571

Operator comments /observations: NONE

Operator Signature: R. Attridge

AIR SCIENCES INC
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REVIEWED BY WR DATE 2-11-14
AUDITED BY RPA DATE 2-10-14

AIR SCIENCES INC.

DENVER • PORTLAND

Resolution EAST

SO_2 Monitoring Form

Site Operator: R. ATTRIDGE

Date: MARCH 7, 2014

Sampler Make /Model		T 100
Sampler SN		193
Dilution Calibrator Model/SN	Primary	T 700 / 816
	Transfer	N/A

Instrument Check Start Time	1120
Instrument Check Stop Time	1215
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	21.3
Instrument Range	0-500 ppb
Source Gas Conc.	40 ppm SO

Level 1 Zero/ Span (once every 2 weeks):
Check the Zero/ Span with the T700 Dynamic Dilution Calibrator:

Target Dilution (PPB)	SO_2 Response (PPB)	Final SO_2 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-0.06	-0.15	± 3% of Full Scale (-15 to 15 PPB)	NO
100	96.44	96.51	≤ ± 10% (90 to 110 PPB)	NO

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	-0.14	0.19	± 2	NO
100	96.57	96.96	± 2	NO

Verify Instrument Parameters:

Sample Flow (450 ± 45 cc/ min)	447	Sample Press. (Ambient ± 2 in-Hg)	25.6
UV Lamp (1000 – 4800 mV)	2412	Lamp Ratio (30 – 120%)	67.2
Slope (1 ± 0.3)	1.313	BOX Temp. (Ambient ± 5°C)	33.2
Offset (< 250 mV)	18.7	HVPS (400 – 900 V)	571

Operator Comments / Observations: 1200 - 1300 HRS SO_2 DATA SHALL BE INVALIDATED
WR SLOPE JUST ABOVE THE NORM. RPA

Operator Signature:

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REVIEWED BY WR DATE 3/10/14

AUDITED BY RPA DATE 3-7-14

AIR SCIENCES INC.

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Resolution EAST

O_3 Monitoring Form

Site Operator: R. ATTRIDGE Date: MARCH 7, 2014

Sampler Make /Model		T 400
Sampler SN		224
Dilution Calibrator Model/SN	Primary	T700 / 816
	Transfer	N/A

Instrument Check Start Time	1154
Instrument Check Stop Time	1310
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	23.4
Instrument Range	0-500

Level 1 Zero/Span (once every 2 weeks)

Check the Zero/ Span ppb with the T700 Dynamic Dilution Calibrator.

Target Dilution (PPB)	O_3 Response (PPB)	Final O_3 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	-0.1	0.2	≤ ± 2% of Full Scale (± 10 PPB)	NO
100	106.5	98.6	≤ ± 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	0.2	0.97	± 2	NO
100	98.6	99.48	± 2	NO

Verify Instrument Parameters:

Sample Flow (550 ± 55 cc/ min)	547	Sample Temp. (10 - 50°C)	40.3
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (30 ± 20°C)	28.1
Slope (1 ± 0.15)	0.917	O_3 Measure (2500 – 4800 mV)	3081.9
Offset (0.0 ± 5 PPB)	-5.0	O_3 Reference (2500 – 4800 mV)	3083.5

Operator Comments / Observations: 1200-1300 HRS O3 DATA SHALL BE INVALIDATED — RPA

Operator Signature: R Attridge

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY WR DATE 3/10/14

AUDITED BY RPA DATE 3-7-14

AIR SCIENCES INC.
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REVIEWED BY WR DATE 2-07-14
AUDITED BY RPA DATE 1-31-14

AIR SCIENCES INC.
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Resolution EAST
NO_x Monitoring Form

Site Operator: R. ATTRIDGE Date: 1-31-2014

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

Instrument Check Start Time	1000
Instrument Check Stop Time	1110
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	25.0
Instrument Range	0-500 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	0.3	3.0	3.3	0.2	± 3% of full scale (± 15 PPB)	NO
400	400.8	12.3	413.6	399.6	≤ ± 10% (360 to 440 PPB)	NO

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T200 Response (PPB)		CR3000 Response (PPB)		Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	NO	-0.0	NO	-0.29	± 2	NO
	NO_2	0.2	NO_2	-0.01		
	NO_x	0.1	NO_x	0.02		
400	NO	399.2	NO	399.52	± 2	NO
	NO_2	0.5	NO_2	0.31		
	NO_x	399.7	NO_x	399.96		

Verify Instrument Parameters:

Sample Flow (500 ± 50 cc/min)	494	Moly Temp. (315 ± 5°C)	315.2
Ozone Flow (80 ± 15 cc/ min)	76	HVPS (400 - 900 V)	601
NO_x Slope (1 ± 0.3)	1.242	NO Slope (1 ± 0.3)	1.239
NO_x Offset (0 ± 100)	6.3	NO Offset (0 ± 100)	0.1

Operator comment/observations: NONE

Operator Signature: Ray Attridge

AIR SCIENCES INC.

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Resolution EAST

NO_x Monitoring Form

Site Operator: R. ATTRIDGE Date: 2-10-14

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

Instrument Check Start Time	0850
Instrument Check Stop Time	0955
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	24.8
Instrument Range	0-500 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	-0.0	1.1	1.1	-0.5	± 3% of full scale (± 15 PPB)	NO
100	97.9	-2.0	96.0	100.3	≤ ± 10% (90 to 110 PPB)	NO

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T200 Response (PPB)		CR3000 Response (PPB)		Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	NO	0.0	NO	-0.26	± 2	NO
	NO_2	-0.4	NO_2	-0.76		
	NO_x	-0.5	NO_x	-0.61		
100	NO	100.9	NO	100.89	± 2	NO
	NO_2	-0.7	NO_2	-0.76		
	NO_x	100.3	NO_x	100.27		

Verify Instrument Parameters:

Sample Flow (500 ± 50 cc/min)	494	Moly Temp. (315 ± 5°C)	315.7
Ozone Flow (80 ± 15 cc/ min)	76	HVPS (400 – 900 V)	601
NO_x Slope (1 ± 0.3)	1.292	NO Slope (1 ± 0.3)	1.262
NO_x Offset (0 ± 100)	7.1	NO Offset (0 ± 100)	6.0

Operator comment/observations: NONE

Operator Signature: R Atty

AIR SCIENCES INC.
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REVIEWED BY WR DATE 2-11-14

AUDITED BY RPA DATE 2-10-14

AIR SCIENCES INC.

DENVER • PORTLAND

Resolution EAST

NO_x Monitoring Form

Site Operator: R. ATTRIDGE Date: MARCH 7, 2014

Sampler Make /Model		T 200
Sampler SN		197
Dilution Calibrator Model/SN	Primary	T 700 / 816
	Transfer	N/A

Instrument Check Start Time	1120
Instrument Check Stop Time	1247
Filter Replacement Y/N	NO
Shelter Temp (5 to 40 °C)	21.2
Instrument Range	0-500
Source Gas Conc.	40ppm 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	-0.1	2.9	2.7	0.1	± 3% of full scale (± 15 PPB)	NO
100	97.0	-0.1	97.0	97.2	≤ ± 10% (90 to 110 PPB)	NO

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T200 Response (PPB)		CR3000 Response (PPB)		Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	NO	-0.0	NO	-0.19	± 2	NO
	NO_2	-0.1	NO_2	-0.36		
	NO_x	-0.1	NO_x	-0.24		
100	NO	97.0	NO	97.57	± 2	NO
	NO_2	-0.1	NO_2	-0.56		
	NO_x	97.0	NO_x	97.09		

Verify Instrument Parameters:

Sample Flow (500 ± 50 cc/min)	484	Moly Temp. (315 ± 5°C)	314.5
Ozone Flow (80 ± 15 cc/ min)	75	HVPS (400 – 900 V)	601
NO_x Slope (1 ± 0.3)	1.361	NO Slope (1 ± 0.3)	1.336
NO_x Offset (0 ± 100)	4.0	NO Offset (0 ± 100)	0.0

Operator Comments / Observations: WR NOX AND NO SLOPE ABOVE THE NORM. 1200-1300 HRS NOX DATA SHALL BE INVALIDATED — RPA

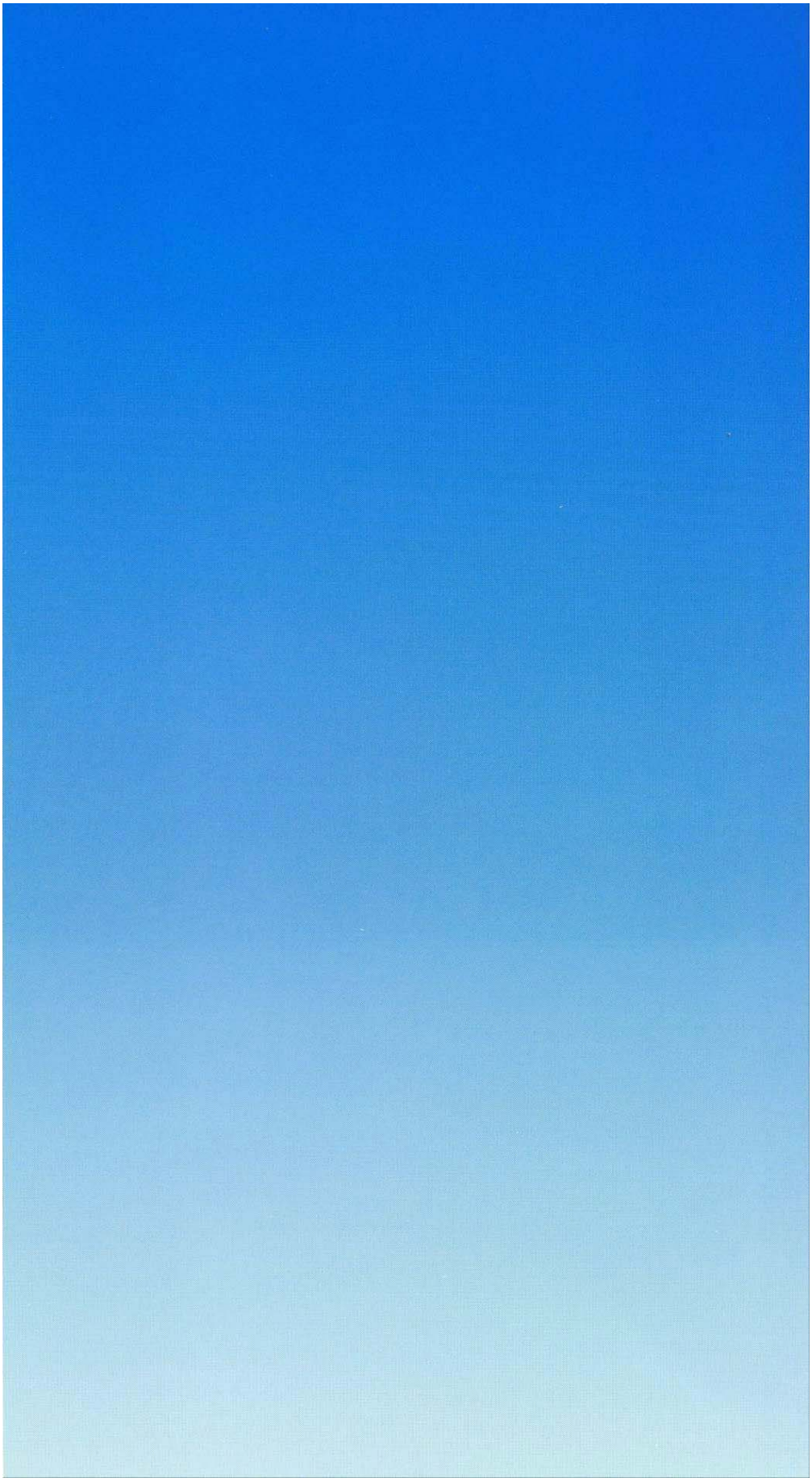
Operator Signature :

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY WR DATE 3/10/14

AUDITED BY RPA DATE 3.7.14

Appendix K: Audits and Calibrations



Air Quality Audit Report East Plant Monitoring Station

PREPARED FOR:
RESOLUTION COPPER MINING

PREPARED BY:
WILLIAM RUCKER
AIR SCIENCES INC.

PROJECT 262-5
JANUARY 2014

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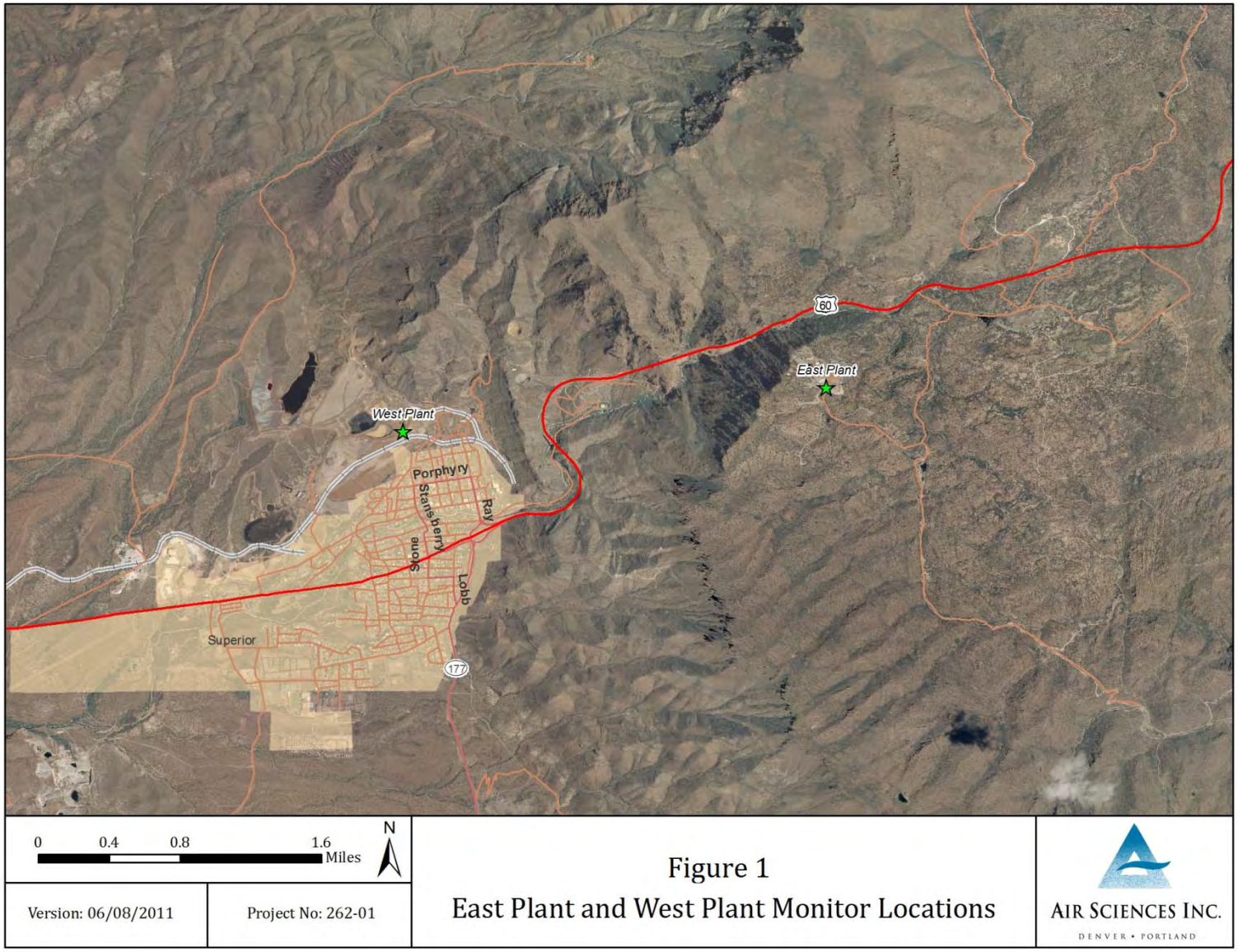
1.0 INTRODUCTION

On January 14, 2014, and January 22, 2014, the meteorological and air quality instrumentation was audited 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 audit procedures for the meteorological, particulate and ambient gas instrumentation at the East plant site. The audit was conducted in accordance with the following guideline documents:

- EPA-450/4-87-007, Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD), May 1987
- EPA-454/R-99-005 Meteorological Monitoring Guidance for Regulatory Modeling Applications, Section 8.4, February 2000
- EPA-454/B-13-003, Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Quality Monitoring Program, May 2013
- EPA-454/B-08-002, Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements Version 2.0, March 2008
- Transfer Standards for the audit 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 and or audited at the East Plant monitoring site include wind speed, wind direction, ambient temperature, vertical height temperature difference (delta temperature), solar radiation, relative humidity, precipitation, barometric pressure, 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 meteorological sensors are mounted to a 35-foot, open-lattice, aluminum drop tower and the analyzers are housed in a 60-square-foot climate controlled trailer. Sensor and instrumentation inlet heights are listed in Table 1.

Table 1. Sensors, Instruments and Inlet Heights

Parameter	Approximate Height (meters)
Wind Speed	10
Wind Direction	10
Ambient Temperature	2
Delta Temperature	2, 10
Solar Radiation	2
Relative Humidity	2
Precipitation	1
Barometric Pressure	1.5
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. All meteorological sensors are programmed on a two-second scan interval, and the output is digitally processed and recorded into 15-minute averages. The raw 15-minute averages are temporarily stored on the datalogger memory, and a local computer is automatically configured to permanently back up datalogger files on a 15-minute interval. The raw 15-minute data averages are securely transmitted, via cellular broadband Internet services, to the Air Sciences Inc. server and processed into the Data Acquisition System (DAS) for quality assurance checks. These raw 15-minute averages are used as input for the calculation of one-hour averages.

3.0 AUDIT METHODOLOGY

This section provides the audit procedures for the meteorological, particulate and ambient gas instrumentation at the East monitoring site. Copies of the completed audit forms for each parameter are included in Appendix A.

3.1 Meteorological Sensor Audit Procedures

The wind speed sensor audit was performed by rotating the sensor shaft using a DC-powered variable-speed motor equipped with an optical encoder output referenced to a crystal oscillator. A target sensor speed was calculated based on the audit rotational speed and compared to the instantaneous datalogger reading. An R.M. Young Torque Disc was used to measure the anemometer starting torque. All data were recorded on a standardized form.

The audit of the wind direction system was performed by aligning the tail vane of the sensor to its mounting cross-arm. A Brunton Precision Magnetic Compass (BPMC) mounted on a tripod was used to establish the orientation of the cross-arm using the Magnetic Declination Method.[1] With the wind direction sensor oriented along the axis of the cross-arm, the sensor response was compared to the BPMC-measured value and recorded on a standardized form. The potentiometer linearity was checked by recording the system response at 45-degree intervals over the operating range of the system. Data were recorded on a standardized form.

The ambient temperature sensor audit was performed by comparing the temperature sensor in-situ to a NIST-traceable[2] temperature sensor. Both thermometer and datalogger readings were recorded on a standardized form.

The differential temperature sensor audit was performed by immersing both temperature sensors in a series of three water baths within the range of the temperature sensors. Positive and negative temperature differentials were checked by immersing the sensors in separate water baths. All cabling and associated wiring remained intact for the audit of both sensors. A Precision Temperature Sensor was used to measure the bath temperatures. All audit data were recorded on standardized forms.

The solar radiation sensor audit was performed by comparing the sensor in-situ to a calibrated pyranometer wired to an independent datalogger. Both the standard and the datalogger readings were recorded on a standardized form.

The relative humidity sensor audit was performed by comparing the humidity sensor in-situ to a NIST-traceable humidity sensor. Both the standard and datalogger readings were recorded on a standardized form.

---

[1] Refer to section 2.5.2.2 of the Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Version 2.0, March 2008, for more details.

[2] National Institute of Standards and Technology

The precipitation gauge was calibrated by employing a graduated syringe and distilled water. The volume of water required to cause the tipping bucket to activate was measured repeatedly, averaged, and compared to the calculated value for the activation. All volumes were recorded on a standardized form.

The barometric pressure sensor audit was performed by comparing the sensor in-situ to a NIST-traceable barometric pressure standard. Both the standard and datalogger readings were recorded on a standardized form.

3.2 Particulate Matter Audit 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.

3.3 Ambient Gas Audit Procedures

Audit of the Teledyne T100 SO_2 analyzer involved a Multi-Point Audit (MPA) and an Analog to Digital (A2D) verification. The MPA was performed by using the T700 calibrator to dilute NIST-traceable EPA-protocol audit 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.

Audit of the Teledyne T200 NO_2 analyzer involved an MPA and an A2D verification. The SPC was performed by using the T700 calibrator to dilute NIST-traceable EPA-protocol audit gas with a clean zero-air source to calibrate the T200 analyzer at zero, and five points within the instrument range—typically point from 100 to 500 PPB of NO_X. A verification check of the T200 instrument response against the CR3000 datalogger response was performed to guarantee accurate representation of the digital scale from the analog output signals.

Audit 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 audit 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

On January 14, 2014, Air Sciences discovered multiple temperature alarms being reported by all the gaseous analyzers as a result of the shelter's climate control system being off. The shelter temperature data collected reflects a steady increase in temperature starting in the afternoon of January 10, 2014 which coincides with the last weekly site inspection. The highest hourly temperature recorded during this period was above 45° C.

All collected gaseous data collected between January 10, 2014 through January 14, 2014 shall be flagged due to the shelter temperatures exceeded the acceptable range for monitoring per EPA-454/B-13-003, Section 6.2.2.

The Teledyne API T400 Ozone Analyzer suffered a critical internal component failure that prevented the multipoint auditing procedures. A multipoint calibration will be conducted after replacement of the failed internal component.

All other instruments and sensors were within their recommended tolerance parameters at the East Plant air quality site.

Appendix A: Audit Forms

METEOROLOGICAL STATION
AUDIT SUMMARY

AIR SCIENCES INC.

DENVER ▲ PORTLAND

Client : Resolution Copper Company
Project No. : 262-5
Site : East Plant
Date : 1/14/2014
Time: 1030-1145 LT
Personnel: R. Attridge
W.Rucker

SITE MONITORING PARAMETERS AND SENSORS				
Parameter	**Sensors**	**Model #**	**Serial Number**	**Instrument Location on Site**
Datalogger	Campbell Sci. Micrologger	CR3000	6591	1 meter
Wind Speed	R. M. Young Wind Monitor	5305	112953	10 meters
Wind Direction	R. M. Young Wind Monitor	5305	112953	10 meters
Ambient Temperature	Campbell Sci. Probe	HC2S3-L	60749863	2 meters
Relative Humidity	Campbell Sci. Probe	HC2S3-L	60749863	2 meters
Barometric Pressure	Vaisala PTB110 Barometer	PTB110	G0077095	1 meter
Delta Temperature (2m)	R. M. Young 1K RTD Temp. Sensor	41342	20208	2 meters
Delta Temperature (10m)	R. M. Young 1K RTD Temp. Sensor	41342	020213	10 meters
Solar Radiation	Campbell Sci. Pyranometer	CMP3	115422	2 meters
Precipitation	R. M. Young Heated Rain Gauge	52202	8721	Ground

QUALITY ASSURANCE AUDIT EQUIPMENT				
Parameter	**Reference Device**	**Model #**	**Serial Number**	**Re-Calibration Date**
Datalogger	Campbell Sci. Micrologger	CR 850	22877	
System Accuracy & Linearity	Compass	N/A	5060706165	10/9/2013
Wind Speed	R. M. Young Anemometer Drive	18802	CA03376	09/24/2013
Torque	Disk 3	N/A	N/A	N/A
Ambient Temperature	HygroClip 2	HC2S3	0061045255	09/13/2013
Relative Humidity	HygroClip 2	HC2S3	0061045255	09/13/2013
Barometric Pressure	Vaisala PTB110 Barometer	CS106	J3610003	09/02/2013
Delta Temperature	Campbell Sci. RTD Probe	41342	TS22521	09/26/2013
Solar Radiation	Campbell Sci. Pyranometer	CMP3	138453	02/28/2013
Precipitation	10 mL Syringe	N/A	N/A	N/A

WIND SPEED, 10 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: Air Sciences
Site Name: East Plant
Project: 262-5
Date: 1/14/2014

Model:	5305	Calibration Motor No.:	CA03376
Serial No:	112953	Calibration Disk No.:	Disk 3

System Linearity Check

	Standard RPM	Target* m/s	Logger Reading m/s	Difference m/s	Acceptance Criteria
CW	0.0	0.00	0.00	0.00	0.0
CW	200.0	1.02	1.02	0.00	0.3
CW	400.0	2.05	2.04	-0.01	0.3
CW	600.0	3.07	3.07	0.00	0.4
CW	800.0	4.10	4.09	-0.01	0.4
CW	1000.0	5.12	5.12	0.00	0.5
CW	2000.0	10.24	10.24	0.00	0.7
CW	3000.0	15.36	15.36	0.00	1.0
CW	4000.0	20.48	20.48	0.00	1.2
CW	5000.0	25.60	25.60	0.00	1.5

RM Young
*Target (m/s) = rpm x 0.00512

Bearing Torque Test (Passing 0.4 m/s = 0.6 g-cm)

Clockwise	0.2	g-cm
Counterclockwise	0.2	g-cm

Audited By: R. Attridge W.Rucker

WIND DIRECTION, 10 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND

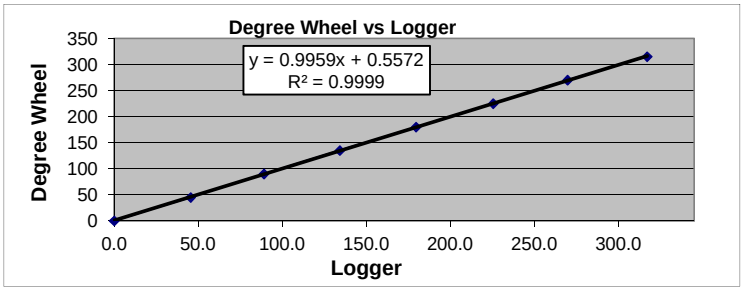
Operator: Air Sciences
Site Name: East Plant
Project: 262-5
Date: 1/14/2014

Model: 5305 Serial No: 112953 Compass No.: 5060706165

System Accuracy and Linearity Check Declination[1] = 10 °East

Orientation	Compass (w/o declination) (Degrees)	Compass (w/declination) (Degrees)	Target (Degrees)	Logger Reading (Degrees)	Difference (Degrees)	Acceptance Criteria
1. Vane	170.0	180.0	180.0	179.5	-0.5	±5
Tail	350.0	0.0	0.0	0.1	0.1	±5

CW	Initial Logger (Degrees)	Difference (Degrees)	Corrected Logger (Degrees)	Difference (Degrees)	Acceptance Criteria [2]
0	0.0	0.0	-0.1	-0.1	±3
45	45.5	0.5	45.4	0.4	±3
90	89.1	-0.9	89.0	-1.0	±3
135	134.2	-0.8	134.1	-0.9	±3
180	179.6	-0.4	179.5	-0.5	±3
225	225.5	0.5	225.4	0.4	±3
270	269.7	-0.3	269.6	-0.4	±3
315	317.1	2.1	317.0	2.0	±3
	Avg	0.1			
CCW					
0	0.0	0.0	-0.7	-0.7	±3
45	46.9	1.9	46.2	1.2	±3
90	89.5	-0.5	88.8	-1.2	±3
135	136.5	1.5	135.8	0.8	±3
180	181.2	1.2	180.5	0.5	±3
225	224.4	-0.6	223.7	-1.3	±3
270	271.1	1.1	270.4	0.4	±3
315	315.9	0.9	315.2	0.2	±3
	Avg	0.7			



Audited By: R. Attridge W.Rucker

[1] Declination added to compass
[2] May reference wider acceptance criteria in *QA Handbook for Air Pollution Measurement Systems, Volume IV - Meteorological Measurements, August 1989*

AMBIENT TEMPERATURE, 2 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: Air Sciences
Site Name: East Plant
Project: 262-5
Date: 1/14/2014

Model: HC2S3-L
Std Model: HC2S3

Serial No: 60749863
Ref Serial No: 0061045255

System Linearity Check

	Standard (ºC)	Logger Reading (ºC)	Difference (ºC)	Acceptance Criteria
1.	17.0	16.8	0.2	±2
2.	16.9	16.6	0.3	±2
3.	16.8	16.7	0.1	±2
4.	16.9	16.7	0.2	±2
5.	16.8	16.7	0.1	±2
6.	16.9	16.7	0.2	±2
7.	16.8	16.7	0.1	±2
8.	16.9	16.7	0.2	±2
9.	16.9	16.6	0.3	±2
10.	16.9	16.6	0.3	±2

Audited By: R. Attridge W.Rucker

RELATIVE HUMIDITY, 2 METERS
AUDIT SUMMARY

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: East Plant
Project: 262-5
Date: 1/14/2014

Model: HC2S3-L
Serial No: 60749863
Std Model: HC2S3
Std Serial No: 0061045255

	Standard (%)	Logger Reading (%)	Difference (%)	Acceptance Criteria (%)
1.	12.8	13.3	-0.5	±7
2.	12.9	13.4	-0.5	±7
3.	12.8	13.1	-0.3	±7
4.	12.7	13.1	-0.4	±7
5.	12.6	12.9	-0.3	±7
6.	12.7	12.9	-0.2	±7
7.	12.8	13.1	-0.3	±7
8.	12.6	13.2	-0.6	±7
9.	12.8	13.2	-0.4	±7
10.	12.8	13.2	-0.4	±7

Audited By: R. Attridge W.Rucker

DELTA TEMPERATURE, 2 and 10 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: Air Sciences
Site Name: East Plant
Project: 262-5
Date: 1/14/2014

Model:	41342	Serial No (2m):	20208
		Serial No (10m):	020213
Std Model:	41342	Std Serial No:	TS22521

Aspirator Fans Working Properly? Y

	Standard (ºC)	2 Meter (ºC)	10 Meter (ºC)	Difference 2 Meter [1] (ºC)	Difference 10 Meter [1] (ºC)
Bath 1	37.21	37.19	37.18	0.02	0.03
Bath 2	19.36	19.40	19.41	0.04	0.05
Bath 3	0.16	0.13	0.17	0.03	0.01

Delta T [2] (ºC)	Difference 10M vs. 2M
	0.01
	0.01
	0.04

1. The acceptance criteria for deviation from the standard for both upper and lower temperatures is ± 0.5
2. The acceptance criteria for deviation from the standard for delta temperatures is ± 0.1

Audited By: R. Attridge W.Rucker

BAROMETRIC PRESSURE, 1 METER
AUDIT SUMMARY

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: East Plant
Project: 262-5
Date: 1/14/2014

Model: PTB110 Serial No: G0077095
Std Model: CS106 Std Serial No: J3610003

System Linearity Check

	Standard (mmHg)	Logger Reading (mmHg)	Difference (mmHg)	Acceptance Criteria (mmHg)
1.	659.4	659.4	0.0	±2.3
2.	659.4	659.4	0.0	±2.3
3.	659.4	659.4	0.0	±2.3
4.	659.4	659.4	0.0	±2.3
5.	659.4	659.4	0.0	±2.3

Audited By: R. Attridge W.Rucker

SOLAR RADIATION, 2 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: Air Sciences
Site Name: East Plant
Project: 262-5
Date: 1/14/2014

Model: CMP3 Serial No: 115422
Std Model: CMP3 Std Serial No: 138453

System Linearity Check

	Standard (w/m^2)	Logger Reading (w/m^2)	Difference (w/m^2)	Difference (%)	Acceptance Criteria
Covered Reading	0.0	0.0	0.0		± 25 W/m^2 or 5%
1.	584.0	588.0	-4.0	0.7	± 25 W/m^2 or 5%
2.	590.0	589.0	1.0	-0.2	± 25 W/m^2 or 5%
3.	592.0	589.0	3.0	-0.5	± 25 W/m^2 or 5%
4.	617.0	590.0	27.0	-4.6	± 25 W/m^2 or 5%
5.	609.0	590.0	19.0	-3.2	± 25 W/m^2 or 5%
6.	602.0	590.0	12.0	-2.0	± 25 W/m^2 or 5%
7.	603.0	590.0	13.0	-2.2	± 25 W/m^2 or 5%
8.	600.0	590.0	10.0	-1.7	± 25 W/m^2 or 5%
9.	598	590.0	8.0	-1.4	± 25 W/m^2 or 5%
10.	592	591.0	1.0	-0.2	± 25 W/m^2 or 5%
		Average	9.0		

Audited By: R. Attridge W.Rucker

PRECIPITATION, GROUND LEVEL
AUDIT SUMMARY

AIR SCIENCES INC.

DENVER • PORTLAND

Operator: Air Sciences
Site Name: East Plant
Project: 262-5
Date: 1/14/2014

Model: 52202 Serial No: 8721

System Linearity Check

	Water (cc)	Calculated Target* (inches)	Logger Reading (inches)	Difference (inches)
1.	2.00	0.0040	0.004	0.000
2.	2.00	0.0040	0.004	0.000
3.	2.00	0.0040	0.004	0.000
4.	2.00	0.0040	0.004	0.000
5.	1.90	0.0038	0.004	0.000
6.	1.90	0.0038	0.004	0.000
7.	2.00	0.0040	0.004	0.000
8.	2.00	0.0040	0.004	0.000
9.	2.00	0.0040	0.004	0.000
10.	2.00	0.0040	0.004	0.000
Total	19.80	0.0394	0.040	-0.001

Reading taken from final storage for period averaged data = 0.04 inches

***Target (Campbell Scientific gauge) = water (cc)/2.01*.004(inches)**

Audited By: R. Attridge W.Rucker

COMMENTS & SIGNATURES
AUDIT SUMMARY

AIR SCIENCES INC.

Operator:	Air Sciences
Site Name:	East Plant
Project:	262-5
Date:	1/14/2014

COMMENTS:

Full meteorological audit performed by Air Sciences Inc.
All instruments and sensors were audited and found
operating within standards.

Signatures:

East Plant BAM-1020 PM_{10} Audit Sheet

Model:	**BAM-1020**	**Serial Number:**	M8714
Audit Date:	01/14/14	**Audited By:**	W. Rucker
Audit Time:	1415 hrs		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	723	Calibration Date:	8/14/2013
Temperature Standard Used:	Model:	Delta Cal	Serial No:	723	Calibration Date:	8/14/2013
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	723	Calibration Date:	8/14/2013

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:	17.4	16.5	as left:	14.2	14.7	Adjusted	X
Barometric Pressure (mmHg):	as found:	653	659	as left:	659	659	Adjusted	X
Flow Rate (15.0 LPM):	as found:	15.0	15.42	as left:	15.0	15.26	Adjusted	X
Flow Rate (18.4 LPM):	as found:	18.4	18.90	as left:	18.4	18.30	Adjusted	X
Flow Rate (16.7 LPM):	as found:	16.7	17.09	as left:	16.7	16.52	Adjusted	X

Audit Notes: **Full service and cleaning performed including the membrane assembly. The reference membrane was replaced during this maintenance. The old ABS value of 0.873 was changed to 0.814 following the reference membrane replacement.**

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		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:

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

Model:	**BAM-1020**	**Serial Number:**	M6466
Audit Date:	01/14/2014	**Audited By:**	W.Rucker
Audit Time:	1415 hr.		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	723	Calibration Date:	8/14/2013
Temperature Standard Used:	Model:	Delta Cal	Serial No:	723	Calibration Date:	8/14/2013
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	723	Calibration Date:	8/14/2013

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:	17.2	16.7	as left:	15.6	15.8	Adjusted	X
Barometric Pressure (mmHg):	as found:	661	659	as left:	659	659	Adjusted	X
Flow Rate (15.0 LPM):	as found:	15.0	15.69	as left:	15.0	14.99	Adjusted	X
Flow Rate (18.4 LPM):	as found:	18.4	19.09	as left:	18.4	18.23	Adjusted	X
Flow Rate (16.7 LPM):	as found:	16.7	17.36	as left:	16.7	16.57	Adjusted	X

Audit Notes: **Full cleaning performed including the reference membrane assembly, and replaced the reference membrane. ABS updated from 0.787 to 0.791.**

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	X	N/A	
Rubber pinch rollers clean:	As found		As left	X	Inlet tube water-tight seal OK:	As found		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:

AIR SCIENCES INC.

DENVER • PORTLAND

Resolution EAST

NO_x Monitoring Form

Site Operator: W. Rucker **Date: 01-22-2014**

Sampler Make /Model		T200
Sampler SN		197
Dilution Calibrator Model/SN	**Primary**	T700/191
	Transfer	M700E/1098

Instrument Check Start Time	1130
Instrument Check Stop Time	1700
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	25.39
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	-0.3	0.2	-0.1	-0.1	± 3% of full scale (± 15 PPB)	Y
100 PPB	104.2	-0.3	104.0	100.3	≤ ± 10% (90 to 110 PPB)	Y

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	0.400	NO	0.22	± 2	No
	NO_2	-0.500	NO_2	-0.7		
	NO_x	-0.100	NO_x	-0.14		
100	NO	101.2	NO	100.88	± 2	No
	NO_2	0.1	NO_2	-0.2		
	NO_x	101.1	NO_x	101.12		

Verify Instrument Parameters:

Sample Flow (500 ± 50 cc/min)	499	Moly Temp. (315 ± 5°C)	314.8
Ozone Flow (80 ± 15 cc/ min)	75	HVPS (400 – 900 V)	600
NO_x Slope (1 ± 0.3)	1.291	NO Slope (1 ± 0.3)	1.294
NO_x Offset (0 ± 100)	0.6	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	0.4	-0.5	-0.1	0.3	PASS, 0 ± 5
100	101	100.9	0.2	105.5	101.6	PASS, 0.1%
200	200	200.5	1.0	201.5	200.8	PASS, 0.3%
300	300	300.1	1.6	301.5	301.1	PASS, 0.1%
400	399	497.9	1.5	399.7	400.3	PASS, 0.2%
500	499	498.3	2.2	500.5	500.5	PASS, 0.0%

Best Fit Line
(BFL)
Y = 1.0387x +- 1.7181
R^2 = 0.99994

Transfer Standard:

Target (PPB)	Actual Generated T200 (PPB)	NO Response	NO_2 Response	NO_x Response	Best Fit Line	Acceptable Criteria (± 2% from BFL)
Zero Air	0	0.4	-0.5	-0.1	-2.2	PASS, 0 ± 5
100	104	99.1	-0.2	98.8	99.6	PASS, 0.8%
200	203	195.2	-0.5	194.8	196.6	PASS, 0.9%
300	301	290.0	1.3	291.3	292.5	PASS, 0.4%
400	400	387.2	2.3	389.8	389.4	PASS, 0.1%
500	499	487.3	0.6	487.7	486.4	PASS, 0.3%

Best Fit Line (BFL)
Y = 0.9942x +0.6767
R^2 = 0.99988

Operator comments/ observations: None

Operator Signature

AIR SCIENCES INC.

DENVER • PORTLAND

Resolution EAST

SO_2 Monitoring Form

Site Operator: W. Rucker **Date: 01-22-2014**

Sampler Make /Model		T100
Sampler SN		193
Dilution Calibrator Model/SN	**Primary**	T700/ 191
	Transfer	M700E/1098

Instrument Check Start Time	1530
Instrument Check Stop Time	1800
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	25.31
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	-1.015	-0.064	± 3% of Full Scale (-15 to 15 PPB)	Y
100	104.55	99.713	≤ ± 10% (360 to 110 PPB)	Y

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	-0.289	-0.265	± 2	N
100	100.462	100.577	± 2	N

Verify Instrument Parameters:

Sample Flow (450 ± 45 cc/ min)	448	Sample Press. (Ambient ± 2 in-Hg)	25.6
UV Lamp (1000 – 4800 mV)	2488.3	Lamp Ratio (30 – 120%)	69.4
Slope (1 ± 0.3)	1.296	BOX Temp. (Ambient ± 5°C)	32.1
Offset (< 250 mV)	20.2	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	-0.317	-1.264	PASS, <2%FS
100	101	101.046	101.506	PASS, 0.5%
200	200	201.350	202.241	PASS, 0.4%
300	301	302.239	305.011	PASS, 0.9%
400	399	405.490	404.729	PASS, 0.2%
500	499	507.545	506.481	PASS, 0.2%

Best Fit Line (BFL)
Y = 1.0175x + -1.2644
R^2 = 0.99993

Transfer Standard:

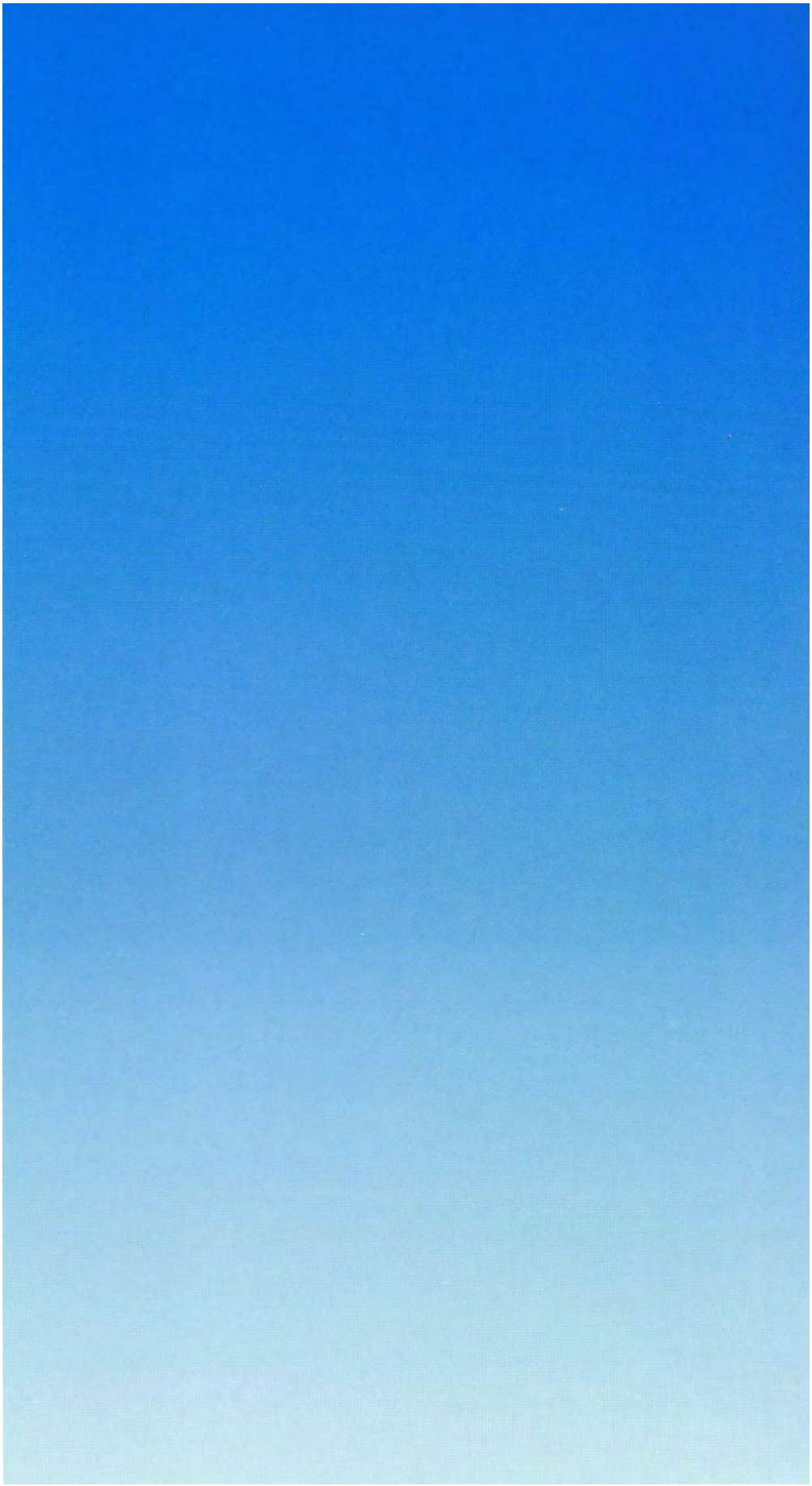
Target (PPB)	Actual Generated SO_2 (PPB)	SO_2 Response (PPB)	Best Fit Line (PPB)	Acceptable Criteria (± 2% from BFL)
Zero Air	0.00	-0.690	-1.327	PASS, <2%FS
100	104	102.941	101.646	PASS, 1.3%
200	203	199.920	199.668	PASS, 0.1%
300	301	295.656	296.699	PASS, 0.4%
400	400	393.597	394.721	PASS, 0.3%
500	499	494.274	492.743	PASS, 0.3%

Best Fit Line (BFL)
Y = 0.9901x + -1.3271
R^2 = 0.99996

Operator Comments/ observations:

Discovered the T100 touch-screen interface inoperable due to a faulty circuit board. Replacement board ordered and will be replaced upon arrival- WR

Operator Signature:



Air Quality Audit Report West Plant Monitoring Station

PREPARED FOR:
RESOLUTION COPPER MINING

PREPARED BY:
WILLIAM RUCKER
AIR SCIENCES INC.

PROJECT 262-5
JANUARY 2014

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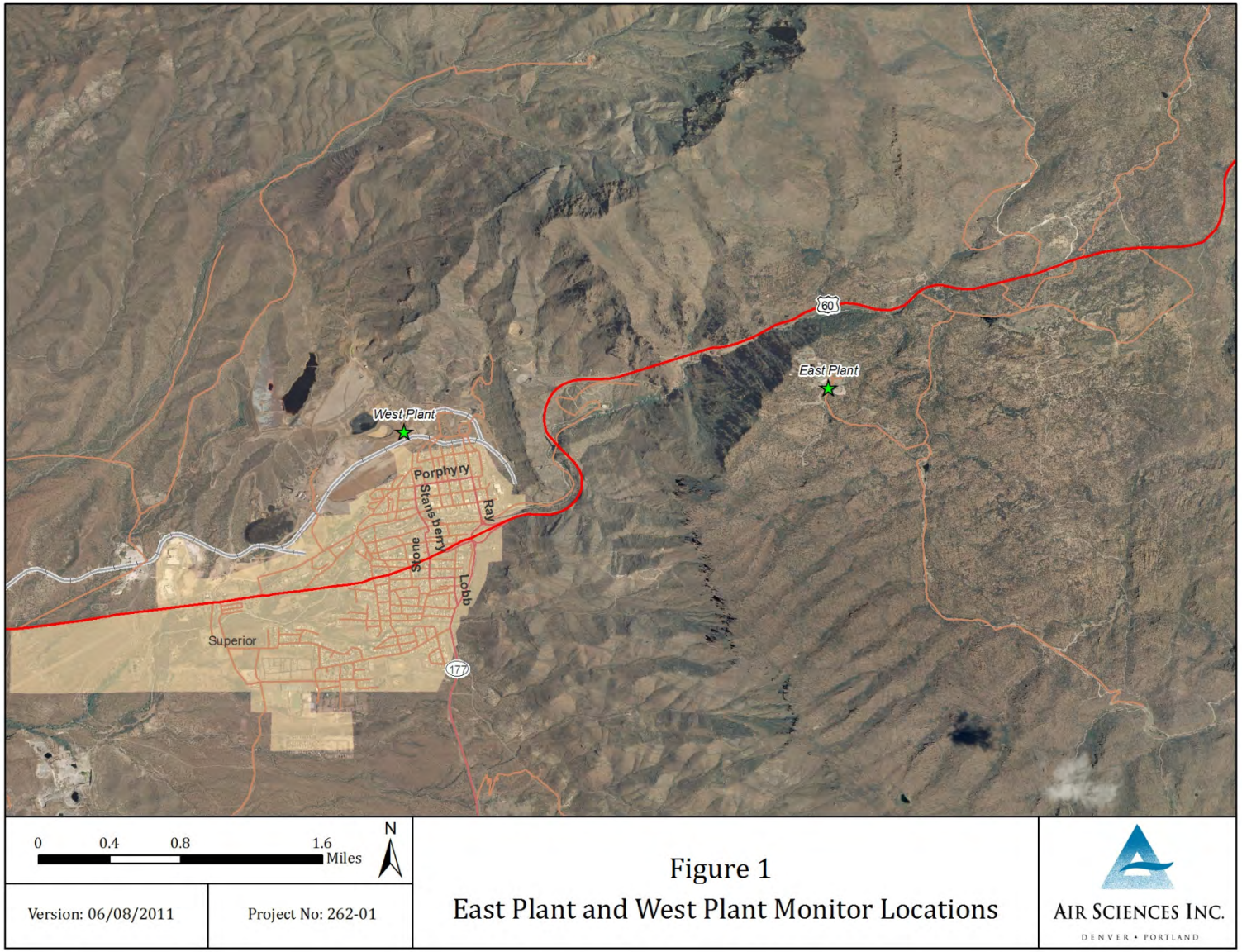
Appendix A: Audit Forms

1.0 INTRODUCTION

On January 13, 2014, the meteorological and air quality instrumentation was audited 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 audit was conducted in accordance with the following guideline documents:

- EPA-450/4-87-007, Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD), May 1987
- EPA-454/R-99-005 Meteorological Monitoring Guidance for Regulatory Modeling Applications, Section 8.4, February 2000
- EPA-454/B-13-003, Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Quality Monitoring Program, May 2013
- EPA-454/B-08-002, Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements Version 2.0, March 2008
- 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 and or audited at the West Plant monitoring site include wind speed, wind direction, ambient temperature, vertical height temperature difference (delta temperature), solar radiation, relative humidity, precipitation, barometric pressure, and particulate matter less than 10 and 2.5 microns in diameter (PM_{10} & $PM_{2.5}$).

The meteorological sensors are mounted to a 35-foot, open-lattice, aluminum drop tower. The particulate monitors are housed in a climate controlled enclosure. The particulate inlets and instrumentation heights are listed in Table 1 (as measured from ground-level).

Table 1. Sensors, Instruments and Inlet Heights

Parameter	Approximate Height (meters)
Wind Speed	10
Wind Direction	10
Ambient Temperature	2
Delta Temperature	2, 10
Solar Radiation	2
Relative Humidity	2
Precipitation	1
Barometric Pressure	1.5
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. All meteorological sensors are programmed on a two-second scan interval, and the output is digitally processed and recorded into 15-minute averages. The raw 15-minute averages are temporarily stored on the datalogger memory, and a local computer is automatically configured to permanently back up datalogger files on a 15-minute interval. The raw 15-minute data averages are securely transmitted, via cellular broadband Internet services, to the Air Sciences Inc. server and processed into the Data Acquisition System (DAS) for quality assurance checks. These raw 15-minute averages are used as input for the calculation of one-hour averages.

3.0 AUDIT METHODOLOGY

This section provides the audit procedures for the meteorological and particulate instrumentation at the West monitoring site. Copies of the completed audit forms for each parameter are included in Appendix A.

3.1 Meteorological Sensor Audit Procedures

The wind speed sensor audit was performed by rotating the sensor shaft using a DC-powered variable-speed motor equipped with an optical encoder output referenced to a crystal oscillator. A target sensor speed was calculated based on the audit rotational speed and compared to the instantaneous datalogger reading. An R.M. Young Torque Disc was used to measure the anemometer starting torque. All data were recorded on a standardized form.

The audit of the wind direction system was performed by aligning the tail vane of the sensor to its mounting cross-arm. A Brunton Precision Magnetic Compass (BPMC) mounted on a tripod was used to establish the orientation of the cross-arm using the Magnetic Declination Method.[1] With the wind direction sensor oriented along the axis of the cross-arm, the sensor response was compared to the BPMC-measured value and recorded on a standardized form. The potentiometer linearity was checked by recording the system response at 45-degree intervals over the operating range of the system. Data were recorded on a standardized form.

The ambient temperature sensor audit was performed by comparing the temperature sensor in-situ to a NIST-traceable[2] temperature sensor. Both thermometer and datalogger readings were recorded on a standardized form.

The differential temperature sensor audit was performed by immersing both temperature sensors in a series of three water baths within the range of the temperature sensors. Positive and negative temperature differentials were checked by immersing the sensors in separate water baths. All cabling and associated wiring remained intact for the audit of both sensors. A Precision Temperature Sensor was used to measure the bath temperatures. All audit data were recorded on standardized forms.

The solar radiation sensor audit was performed by comparing the sensor in-situ to a calibrated pyranometer wired to an independent datalogger. Both the standard and the datalogger readings were recorded on a standardized form.

The relative humidity sensor audit was performed by comparing the humidity sensor in-situ to a NIST-traceable humidity sensor. Both the standard and datalogger readings were recorded on a standardized form.

---

1 Refer to section 2.5.2.2 of the Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Version 2.0, March 2008, for more details.
2 National Institute of Standards and Technology

The precipitation gauge was calibrated by employing a graduated syringe and distilled water. The volume of water required to cause the tipping bucket to activate was measured repeatedly, averaged, and compared to the calculated value for the activation. All volumes were recorded on a standardized form.

The barometric pressure sensor audit was performed by comparing the sensor in-situ to a NIST-traceable barometric pressure standard. Both the standard and datalogger readings were recorded on a standardized form.

3.2 Particulate Matter Audit 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.

4.0 RESULTS AND RECOMMENDATIONS

All instruments and sensors were within their recommended tolerance parameters at the Resolution Copper West Plant monitoring site.

Appendix A: Audit Forms

METEOROLOGICAL STATION
AUDIT SUMMARY

AIR SCIENCES INC.

DENVER ▲ PORTLAND

Client : Resolution Copper Company
Project No. : 262-5
Site : West Plant
Date : 1/13/2014
Time: 1335-1445 LT
Personnel: R. Attridge
W.Rucker

SITE MONITORING PARAMETERS AND SENSORS				
Parameter	**Sensors**	**Model #**	**Serial Number**	**Instrument Location on Site**
Datalogger	Campbell Sci. Micrologger	CR3000	6590	1 meter
Wind Speed	R. M. Young Wind Monitor	5305	112952	10 meters
Wind Direction	R. M. Young Wind Monitor	5305	112952	10 meters
Ambient Temperature	Campbell Sci. Probe	HC2S3-L	60749962	2 meters
Relative Humidity	Campbell Sci. Probe	HC2S3-L	60749962	2 meters
Barometric Pressure	Vaisala PTB110 Barometer	PTB110	J3610003	1 meter
Delta Temperature (2m)	R. M. Young 1K RTD Temp. Sensor	41342	020205	2 meters
Delta Temperature (10m)	R. M. Young 1K RTD Temp. Sensor	41342	020211	10 meters
Solar Radiation	Campbell Sci. Pyranometer	CMP3	115433	2 meters
Precipitation	R. M. Young Heated Rain Gauge	52202	08738	Ground

QUALITY ASSURANCE AUDIT EQUIPMENT				
Parameter	**Reference Device**	**Model #**	**Serial Number**	**Re-Calibration Date**
Datalogger	Campbell Sci. Micrologger	CR 850	22877	
System Accuracy & Linearity	Compass	N/A	5060706165	10/9/2013
Wind Speed	R. M. Young Anemometer Drive	18802	CA03376	09/24/2013
Torque	Disk 3	N/A	N/A	N/A
Ambient Temperature	HygroClip 2	HC2S3	0061045255	09/13/2013
Relative Humidity	HygroClip 2	HC2S3	0061045255	09/13/2013
Barometric Pressure	Vaisala PTB110 Barometer	CS106	J3610003	09/02/2013
Delta Temperature	Campbell Sci. RTD Probe	41342	TS22521	09/26/2013
Solar Radiation	Campbell Sci. Pyranometer	CMP3	138453	02/28/2013
Precipitation	10 mL Syringe	N/A	N/A	N/A

WIND SPEED, 10 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: Air Sciences
Site Name: West Plant
Project: 262-5
Date: 1/13/2014

Model:	5305	Calibration Motor No.:	CA03376
Serial No:	112952	Calibration Disk No.:	Disk 3

System Linearity Check

	Standard RPM	Target* m/s	Logger Reading m/s	Difference m/s	Acceptance Criteria
CW	0.0	0.00	0.00	0.00	0.0
CW	200.0	1.02	1.02	0.00	0.3
CW	400.0	2.05	2.04	-0.01	0.3
CW	600.0	3.07	3.07	0.00	0.4
CW	800.0	4.10	4.09	-0.01	0.4
CW	1000.0	5.12	5.12	0.00	0.5
CW	2000.0	10.24	10.24	0.00	0.7
CW	3000.0	15.36	15.36	0.00	1.0
CW	4000.0	20.48	20.48	0.00	1.2
CW	5000.0	25.60	25.60	0.00	1.5

RM Young
*Target (m/s) = rpm x 0.00512

Bearing Torque Test (Passing 0.4 m/s = 0.6 g-cm)

Clockwise	0.3	g-cm
Counterclockwise	0.2	g-cm

Audited By: R. Attridge W.Rucker

WIND DIRECTION, 10 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND

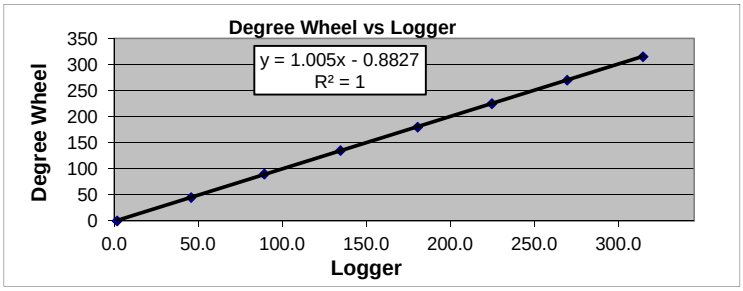
Operator: Air Sciences
Site Name: West Plant
Project: 262-5
Date: 1/13/2014

Model: 5305 Serial No: 112952 Compass No.: 5060706165

System Accuracy and Linearity Check Declination[1] = 10 °East

Orientation	Compass (w/o declination) (Degrees)	Compass (w/declination) (Degrees)	Target (Degrees)	Logger Reading (Degrees)	Difference (Degrees)	Acceptance Criteria
1. Vane	161.0	171.0	171.0	171.0	0.0	±5
Tail	341.0	351.0	351.0	351.0	0.0	±5

CW	Initial Logger (Degrees)	Difference (Degrees)	Corrected Logger (Degrees)	Difference (Degrees)	Acceptance Criteria [2]
0	1.7	1.7	1.6	1.6	±3
45	45.8	0.8	45.7	0.7	±3
90	89.3	-0.7	89.2	-0.8	±3
135	134.6	-0.4	134.5	-0.5	±3
180	180.5	0.5	180.4	0.4	±3
225	224.7	-0.3	224.6	-0.4	±3
270	269.5	-0.5	269.4	-0.6	±3
315	314.6	-0.4	314.5	-0.5	±3
	Avg	0.1			
CCW					
0	0.3	0.3	-0.1	-0.1	±3
45	44.4	-0.6	44.0	-1.0	±3
90	92.7	2.7	92.3	2.3	±3
135	136.0	1.0	135.6	0.6	±3
180	179.1	-0.9	178.7	-1.3	±3
225	226.4	1.4	226.0	1.0	±3
270	270.3	0.3	269.9	-0.1	±3
315	314.3	-0.7	313.9	-1.1	±3
	Avg	0.4			



Audited By: R. Attridge W.Rucker

[1] Declination added to compass
[2] May reference wider acceptance criteria in *QA Handbook for Air Pollution Measurement Systems, Volume IV - Meteorological Measurements, August 1989*

AMBIENT TEMPERATURE, 2 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: Air Sciences
Site Name: West Plant
Project: 262-5
Date: 1/13/2014

Model: HC2S3-L
Std Model: HC2S3

Serial No: 60749962
Ref Serial No: 0061045255

System Linearity Check

	Standard (ºC)	Logger Reading (ºC)	Difference (ºC)	Acceptance Criteria
1.	17.4	17.7	-0.3	±2
2.	17.5	17.7	-0.2	±2
3.	17.6	17.8	-0.2	±2
4.	17.9	18.2	-0.3	±2
5.	17.3	17.5	-0.2	±2
6.	16.5	16.8	-0.3	±2
7.	17.0	17.2	-0.2	±2
8.	17.2	17.5	-0.3	±2
9.	17.6	17.7	-0.1	±2
10.	17.9	18.2	-0.3	±2

Audited By: R. Attridge W.Rucker

RELATIVE HUMIDITY, 2 METERS
AUDIT SUMMARY

Operator: Air Sciences
Site Name: West Plant
Project: 262-5
Date: 1/13/2014

Model: HC2S3-L
Serial No: 60749962
Std Model: HC2S3
Std Serial No: 0061045255

	Standard (%)	Logger Reading (%)	Difference (%)	Acceptance Criteria (%)
1.	17.8	16.4	1.4	±7
2.	16.3	18.1	-1.9	±7
3.	16.7	17.4	-0.7	±7
4.	17.0	18.3	-1.3	±7
5.	16.8	17.8	-1.0	±7
6.	16.6	17.8	-1.2	±7
7.	16.7	18.0	-1.3	±7
8.	15.4	16.8	-1.4	±7
9.	15.6	17.1	-1.5	±7
10.	15.7	16.6	-0.9	±7

Audited By: R. Attridge W.Rucker

DELTA TEMPERATURE, 2 and 10 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: Air Sciences
Site Name: West Plant
Project: 262-5
Date: 1/13/2014

Model:	41342	Serial No (2m):	020205
		Serial No (10m):	020211
Std Model:	41342	Std Serial No:	TS22521

Aspirator Fans Working Properly? Y

	Standard (°C)	2 Meter (°C)	10 Meter (°C)	Difference 2 Meter [1] (°C)	Difference 10 Meter [1] (°C)
Bath 1	39.10	39.10	39.10	0.00	0.00
Bath 2	13.22	13.23	13.22	0.01	0.00
Bath 3	0.24	0.24	0.25	0.00	0.01

Delta T [2] (°C)	Difference 10M vs. 2M
	0.00
	0.01
	0.01

1. The acceptance criteria for deviation from the standard for both upper and lower temperatures is ± 0.5
2. The acceptance criteria for deviation from the standard for delta temperatures is ± 0.1

Audited By: R. Attridge W.Rucker

BAROMETRIC PRESSURE, 1 METER
AUDIT SUMMARY

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: West Plant
Project: 262-5
Date: 1/13/2014

Model: PTB110 Serial No: J3610003
Std Model: CS106 Std Serial No: J3610003

System Linearity Check

	Standard (mmHg)	Logger Reading (mmHg)	Difference (mmHg)	Acceptance Criteria (mmHg)
1.	688.6	688.7	-0.1	±2.3
2.	688.6	688.7	-0.1	±2.3
3.	688.6	688.7	-0.1	±2.3
4.	688.6	688.7	-0.1	±2.3
5.	688.6	688.7	-0.1	±2.3

Audited By: R. Attridge W.Rucker

SOLAR RADIATION, 2 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: Air Sciences
Site Name: West Plant
Project: 262-5
Date: 1/13/2014

Model: CMP3 Serial No: 115433
Std Model: CMP3 Std Serial No: 138453

System Linearity Check

	Standard (w/m^2)	Logger Reading (w/m^2)	Difference (w/m^2)	Difference (%)	Acceptance Criteria
Covered Reading	0.0	0.0	0.0		± 25 W/m^2 or 5%
1.	626.5	621.5	5.0	-0.8	± 25 W/m^2 or 5%
2.	626.0	619.9	6.1	-1.0	± 25 W/m^2 or 5%
3.	626.5	619.5	7.0	-1.1	± 25 W/m^2 or 5%
4.	626.7	620.1	6.6	-1.1	± 25 W/m^2 or 5%
5.	626.3	620.3	6.0	-1.0	± 25 W/m^2 or 5%
6.	625.6	616.9	8.7	-1.4	± 25 W/m^2 or 5%
7.	624.0	616.3	7.7	-1.2	± 25 W/m^2 or 5%
8.	624.9	615.5	9.4	-1.5	± 25 W/m^2 or 5%
9.	624.3	614.7	9.6	-1.6	± 25 W/m^2 or 5%
10.	623.4	614.5	8.9	-1.4	± 25 W/m^2 or 5%
		Average	7.5		

Audited By: R. Attridge W.Rucker

PRECIPITATION, GROUND LEVEL
AUDIT SUMMARY

AIR SCIENCES INC.

DENVER • PORTLAND

Operator: Air Sciences
Site Name: West Plant
Project: 262-5
Date: 1/13/2014

Model: 52202 Serial No: 08738

System Linearity Check

	Water (cc)	Calculated Target* (inches)	Logger Reading (inches)	Difference (inches)
1.	2.05	0.0041	0.004	0.000
2.	2.10	0.0042	0.004	0.000
3.	2.00	0.0040	0.004	0.000
4.	2.07	0.0041	0.004	0.000
5.	2.00	0.0040	0.004	0.000
6.	2.05	0.0041	0.004	0.000
7.	2.05	0.0041	0.004	0.000
8.	2.00	0.0040	0.004	0.000
9.	2.10	0.0042	0.004	0.000
10.	2.10	0.0042	0.004	0.000
Total	20.52	0.0408	0.040	0.001

Reading taken from final storage for period averaged data = 0.04 inches

***Target (Campbell Scientific gauge) = water (cc)/2.01*.004(inches)**

Audited By: R. Attridge W.Rucker

COMMENTS & SIGNATURES
AUDIT SUMMARY

AIR SCIENCES INC.

Operator:	Air Sciences
Site Name:	West Plant
Project:	262-5
Date:	1/13/2014

COMMENTS:

Full meteorological audit performed by Air Sciences Inc.
All instruments and sensors were audited and found
operating within standards.

Signatures:

West Plant BAM-1020 PM_{10} Calibration Sheet

Model:	**BAM-1020**	**Serial Number:**	M8712
Audit Date:	1/13/14	**Audited By:**	W. Rucker
Audit Time:	1500 hrs		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	DeltaCal	Serial No:	723	Calibration Date:	8/14/2013
Temperature Standard Used:	Model:	DeltaCal	Serial No:	723	Calibration Date:	8/14/2013
Barometric Pressure Standard Used:	Model:	DeltaCal	Serial No:	1103	Calibration Date:	8/14/2013

Leak Check Value:	as found:	0.2	Should Be: <1.0	as left: 0.3	Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature:	as found:	17.2	17.0	as left:	13.8	14.0	Adjusted	N
Barometric Pressure:	as found:	692	689	as left:	689	689	Adjusted	Y
Flow Rate (15.0 lpm):	as found:	15.0	15.17	as left:	15.0	15.04	Adjusted	Y
Flow Rate (18.4 lpm):	as found:	18.4	18.61	as left:	18.4	18.31	Adjusted	Y
Flow Rate (16.7 lpm):	as found:	16.7	16.86	as left:	16.7	16.69	Adjusted	Y

Calibration Notes: Calibration and cleaning performed, including reference membrane assembly, and replaced the reference membrane. The ABS value was changed from 0.806 to 0.817 following the reference membrane replacement.

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		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		Inlet tube perpendicular to BAM:	As found	X	As left	X		

Signature: _____

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

Model:	**BAM-1020**	**Serial Number:**	M8193
Audit Date:	1/13/2014	**Audited By:**	W. Rucker
Audit Time:	1500-1800 hrs		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	723	Calibration Date:	8/14/2013
Temperature Standard Used:	Model:	Delta Cal	Serial No:	723	Calibration Date:	8/14/2013
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	1103	Calibration Date:	8/14/2013

Leak Check Value:	as found:	0.2 LPM	Should Be: <1.0	as left: 0.2 LPM	Should Be: <1.0

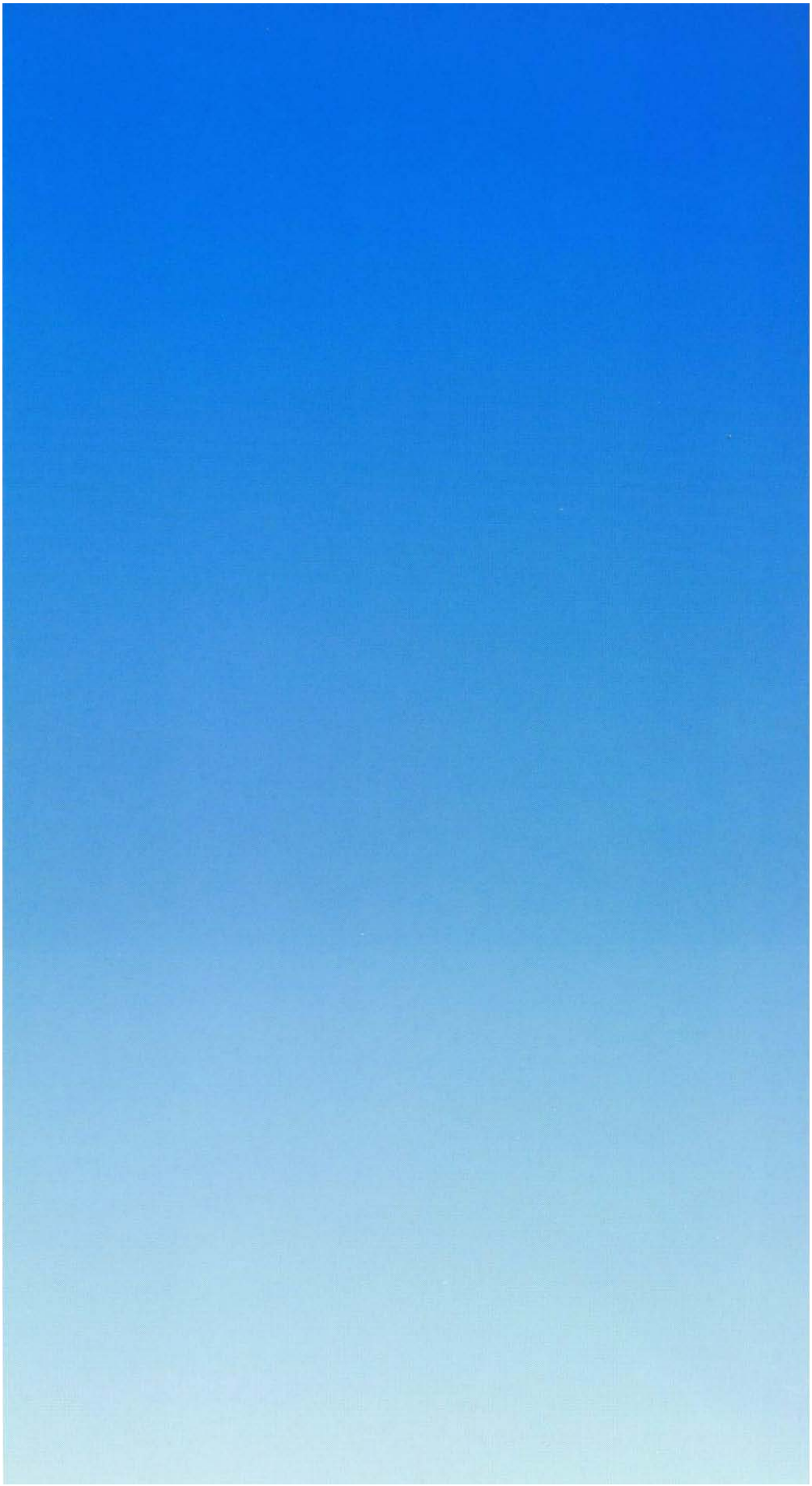
		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	18.8	19.2	as left:	14.5	14.5	Adjusted	Y
Barometric Pressure (mmHg):	as found:	689	689	as left:	689	689	Adjusted	N
Flow Rate (15.0 LPM):	as found:	15.0	15.38	as left:	15.0	15.12	Adjusted	Y
Flow Rate (18.4 LPM):	as found:	18.4	18.91	as left:	18.4	18.63	Adjusted	Y
Flow Rate (16.7 LPM):	as found:	16.7	17.13	as left:	16.7	16.71	Adjusted	Y

Audit Notes: **Full cleaning performed including the reference membrane assembly, and also replaced the reference membrane. Following the replacement of the reference membrane the ABS value was updated to 0.817.**

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	X	N/A	
Rubber pinch rollers clean:	As found		As left	X	Inlet tube water-tight seal OK:	As found		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:



Air Quality Audit Report East Plant Monitoring Station

PREPARED FOR:
RESOLUTION COPPER MINING

PREPARED BY:
RORY ATTRIDGE
AIR SCIENCES INC.

PROJECT 262-7
FEBRUARY 2014

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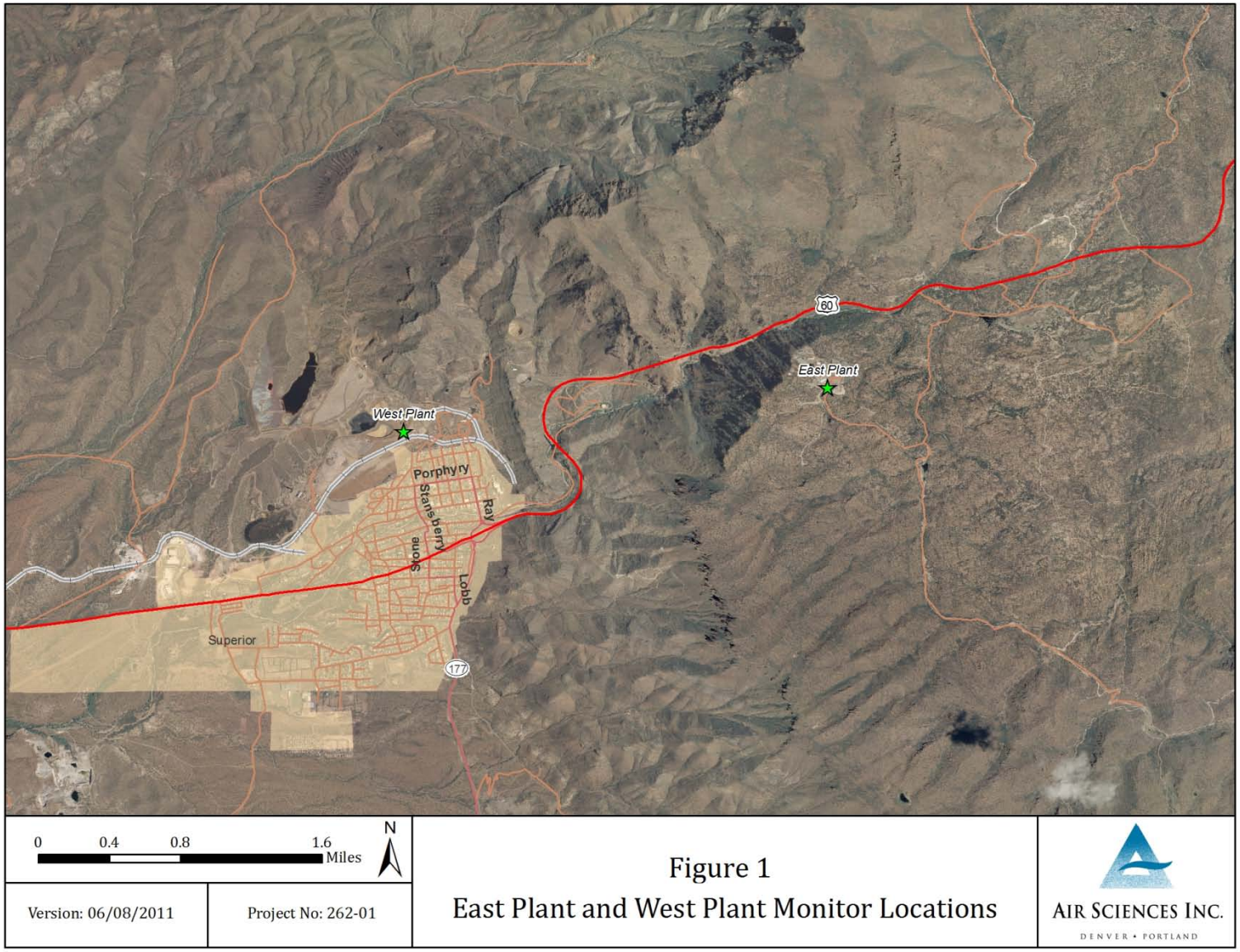
Appendix A: Audit Forms

1.0 INTRODUCTION

On February 18, 2014, and February 19, 2014, the ambient gas instrumentation was audited 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 audit procedures for the ambient gas instrumentation at the East plant site. The audit was conducted in accordance with the following guideline documents:

- EPA-450/4-87-007, Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD), May 1987
- EPA-454/R-99-005 Meteorological Monitoring Guidance for Regulatory Modeling Applications, Section 8.4, February 2000
- EPA-454/B-13-003, Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Quality Monitoring Program, May 2013
- EPA-454/B-08-002, Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements Version 2.0, March 2008
- Transfer Standards for the audit 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 and or audited at the East Plant monitoring site include nitrogen dioxide (NO_2), sulfur dioxide (SO_2), and ozone (O_3).

The analyzers are housed in a 60-square-foot climate controlled shelter. The analyzers sample inlet height is listed in Table 1.

Table 1. Instruments and Inlet Height

Parameter	Approximate Height (meters)
NO_2	3
SO_2	3
O_3	3

Monitored data parameters are recorded via analog inputs on a Campbell Scientific CR3000 datalogger, powered independently by locally supplied AC line power. The raw one-hour averages are temporarily stored on the datalogger memory, and a local computer is automatically configured to permanently back up datalogger files on a hourly interval. The raw hourly data are securely transmitted, via cellular broadband Internet services, to the Air Sciences Inc. server and processed into the Data Acquisition System (DAS) for quality assurance checks.

3.0 AUDIT METHODOLOGY

This section provides the audit procedures for the meteorological, particulate and ambient gas instrumentation at the East monitoring site. Copies of the completed audit forms for each parameter are included in Appendix A.

3.3 Ambient Gas Audit Procedures

Audit of the Teledyne T100 SO_2 analyzer involved a Multi-Point Audit (MPA) and an Analog to Digital (A2D) verification. The MPA was performed by using the T700 calibrator to dilute NIST-traceable EPA-protocol audit 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.

Audit of the Teledyne T200 NO_2 analyzer involved an MPA and an A2D verification. The SPC was performed by using the T700 calibrator to dilute NIST-traceable EPA-protocol audit gas with a clean zero-air source to calibrate the T200 analyzer at zero, and five points within the instrument range—typically point from 100 to 500 PPB of NO_X. A verification check of the T200 instrument response against the CR3000 datalogger response was performed to guarantee accurate representation of the digital scale from the analog output signals.

Audit 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 audit 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

On February 18, 2014, and February 19, 2014, Air Sciences pulled from service the Teledyne API T700 Primary Dynamic Dilution Calibrator due to scheduled servicing and recertification. The Teledyne API T400 Ozone Analyzer's defective ozone scrubber switching assembly was replaced. The Teledyne API T100 Sulfur Dioxide Analyzer's faulty touch screen interface card was replace.

All analyzers were calibrated using a replacement Teledyne API T700 Dynamic Dilution Calibrator. A multipoint audit of the analyzers was conducted using a certified Teledyne API 700E Dilution Calibrator and EPA protocol gas.

All collected ozone data collected between January 10, 2014 through February 18, 2014 shall be flagged due to the shelter temperatures exceeding the acceptable range for monitoring and a critical internal component failure.

All other instruments were within their recommended tolerance parameters at the East Plant air quality site.

Appendix A: Audit Forms

AIR SCIENCES INC.

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Resolution EAST

NO_x Monitoring Form

Site Operator: Rory Attridge **Date: 18-19 February 2014**

Sampler Make /Model		T200
Sampler SN		197
Dilution Calibrator Model/SN	**Primary**	**T700/191**
	Transfer	**T700/816**

Instrument Check Start Time	0800
Instrument Check Stop Time	1200
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	24.69
Instrument Range	0 - 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	0.4	-0.3	0.1	0.1	± 3% of full scale (± 15 PPB)	No
100	90.2	-0.6	89.6	100.5	≤ ± 10% (90 to 110 PPB)	Yes

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T200 Response (PPB)		CR3000 Response (PPB)		Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	NO	0.0	NO	-0.11	± 2	No
	NO_2	0.1	NO_2	-0.08		
	NO_x	0.1	NO_x	0.03		
100	NO	100.9	NO	100.9	± 2	No
	NO_2	-0.56	NO_2	-0.56		
	NO_x	100.5	NO_x	100.28		

Verify Instrument Parameters:

Sample Flow (500 ± 50 cc/min)	484	Moly Temp. (315 ± 5°C)	315.6
Ozone Flow (80 ± 15 cc/ min)	76	HVPS (400 – 900 V)	601
NO_x Slope (1 ± 0.3)	1.336	NO Slope (1 ± 0.3)	1.337
NO_x Offset (0 ± 100)	1.2	NO Offset (0 ± 100)	0.0

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	-0.1	-0.1	-3.8	PASS, 0 ± 5
100	100	101.7	0.0	101.7	102.8	PASS, 1.1%
200	200	202.8	2.9	205.7	209.4	PASS, 1.8%
300	300	308.0	5.5	313.5	316.1	PASS, 0.8%
400	400	416.8	8.0	424.8	422.7	PASS, 0.5%
500	500	519.4	11.1	530.9	529.3	PASS, 0.3%

Best Fit Line (BFL)
$Y = 1.0663x + -3.8286$
$R^2 = 0.99979$

Transfer Standard:

Target (PPB)	Actual Generated T200 (PPB)	NO Response	NO_2 Response	NO_x Response	Best Fit Line	Acceptable Criteria (± 2% from BFL)
Zero Air	0	0.0	0.0	0.0	-2.7	PASS, 0 ± 5
100	100	99.4	-0.4	99.8	101.6	PASS, 1.8%
200	200	203.9	1.3	205.2	205.9	PASS, 0.3%
300	300	309.3	-0.5	308.8	310.2	PASS, 0.4%
400	400	414.5	-1.7	412.9	414.5	PASS, 0.4%
500	500	520.8	1.0	521.5	518.8	PASS, 0.5%

Best Fit Line (BFL)
$Y = 1.043x + -2.7095$
$R^2 = 0.99988$

Operator Comments / Observations: The multipoint calibration was conducted using a replacement primary standard T700 Dilution Calibrator. The actual primary standard was pulled from service for recertification.

Operator Signature :

AIR SCIENCES INC.

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Resolution EAST

SO_2 Monitoring Form

Site Operator: Rory Attridge **Date:** 18-19 February 2014

Sampler Make /Model		T100
Sampler SN		193
Dilution Calibrator Model/SN	**Primary**	T700/ 191
	Transfer	T700 / 816

Instrument Check Start Time	1100
Instrument Check Stop Time	1215
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	24.36
Instrument Range	0 - 500 ppb
Source Gas Conc.	40 ppm SO2

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	0.218	0.165	± 3% of Full Scale (-15 to 15 PPB)	No
100	96.68	100.65	≤ ± 10% (90 to 110 PPB)	No

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	0.165	0.248	± 2	No
100	100.65	101.04	± 2	No

Verify Instrument Parameters:

Sample Flow (450 ± 45 cc/ min)	448	Sample Press. (Ambient ± 2 in-Hg)	22.9
UV Lamp (1000 – 4800 mV)	2419.6	Lamp Ratio (30 – 120%)	67.5
Slope (1 ± 0.3)	1.313	BOX Temp. (Ambient ± 5°C)	32.5
Offset (< 250 mV)	18.6	HVPS (400 – 900 V)	571

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	0.000	0.165	-0.649	PASS, < 2% FS
100	100.000	100.650	102.457	PASS, 1.8%
200	200.000	203.760	205.563	PASS, 0.9%
300	300.000	306.760	308.669	PASS, 0.6%
400	400.000	411.520	411.775	PASS, 0.1%
500	500.000	516.230	514.881	PASS, 0.3%

Best Fit Line (BFL)
Y = 1.0311x + -0.6495
R^2 = 0.99996

Transfer Standard:

Target (PPB)	Actual Generated SO_2 (PPB)	SO_2 Response (PPB)	Best Fit Line (PPB)	Acceptable Criteria (± 2% from BFL)
Zero Air	0.000	0.073	-0.669	PASS, < 2% FS
100	100.000	99.280	101.192	PASS, 1.9%
200	200.000	200.040	203.053	PASS, 1.5%
300	300.000	302.780	304.914	PASS, 0.7%
400	400.000	407.340	406.774	PASS, 0.1%
500	500.000	410.480	509.654	PASS, 0.2%

Best Fit Line (BFL)
Y = 1.0186x + -0.669
R^2 = 0.9996

Operator Comments / Observations:
The multipoint calibration was conducted using a replacement primary standard T700 Dilution Calibrator. The actual primary standard was pulled from service for recertification. Replaced the faulty touch screen interface board.

Operator Signature:

AIR SCIENCES INC.

DENVER • PORTLAND

Resolution EAST

O_3 Monitoring Form

Site Operator: Rory Attridge **Date: 18-19 February 2014**

Sampler Make /Model		T400
Sampler SN		224
Dilution Calibrator Model/SN	**Primary**	T700/ 191
	Transfer	T700/ 816

Instrument Check Start Time	1200
Instrument Check Stop Time	1500
Filter Replacement Y/N	Yes
Shelter Temp (5 to 40 °C)	25.7
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)	O_3 Response (PPB)	Final O_3 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0.1	0.1	≤ ± 2% of Full Scale (± 10 PPB)	No
100	109.1	100.2	≤ ± 7% (93 to 107 PPB)	Yes

Check the real time Analog vs. Digital Converter:

Target Dilution (PPB)	T400 Response (PPB)	CR3000 Response (PPB)	Acceptance Criteria (PPB)	Adjustment Required? Y/N
Zero Air	0.1	0.86	± 2	No
100	100.2	100.48	± 2	No

Verify Instrument Parameters:

Sample Flow (550 ± 55 cc/ min)	548	Sample Temp. (10 - 50°C)	40.0
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (30 ± 20°C)	28.1
Slope (1 ± 0.15)	0.970	O_3 Measure (2500 – 4800 mV)	3105.6
Offset (0.0 ± 5 PPB)	-4.3	O_3 Reference (2500 – 4800 mV)	3106.9

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	0.0	0.1	-0.5	PASS, < 2% FS
100	100.0	97.7	98.7	PASS, 1%
200	201.0	197.2	198.9	PASS, 0.9%
300	300.0	296.3	297.1	PASS, 0.3%
400	400.0	395.1	396.3	PASS, 0.3%
500	500.0	497.3	495.5	PASS, 0.3%

Best Fit Line (BFL)
Y = 0.992x + -0.475
R^2 = 0.99997

Target Standard:

Target (PPB)	Actual Generated O_3 (PPB)	O_3 Response (PPB)	Best Fit Line (PPB)	Acceptable Criteria (± 2% from BFL)
Zero Air	0.0	0.10	1.32	PASS, < 2% FS
100	100.00	100.20	98.87	PASS, 1.3%
200	200.00	194.40	196.41	PASS, 1%
300	300.00	296.68	293.96	PASS, 0.9%
400	399.00	391.20	390.53	PASS, 0.2%
500	499.00	485.90	488.07	PASS, 0.4%

Best Fit Line (BFL)
Y = 0.9755x + 1.3203
R^2 = 0.9989

Operator Comments / Observations: The multipoint calibration was conducted using a replacement primary standard T700 Dilution Calibrator. The actual primary standard was pulled from service for recertification. Prior to calibration, the ozone scrubber switching assembly of the T400 was replaced.

Operator Signature:

Appendix L: CD