AIR SCIENCES INC.

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Baseline Meteorological and Air Quality Data Report Resolution Copper Mining Project

October 1 – December 31, 2014

PREPARED FOR:
RESOLUTION COPPER
A MEMBER OF RIO TINTO GROUP

262-13
FEBRUARY 2015

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1.0 INTRODUCTION

This report summarizes the meteorological, nitrogen dioxide (NO_2), sulfur dioxide (SO_2), ozone (O_3), and particulate matter (PM) data collected at the Resolution Copper Project near Superior, Arizona for the fourth quarter, October 1 – December 31, 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

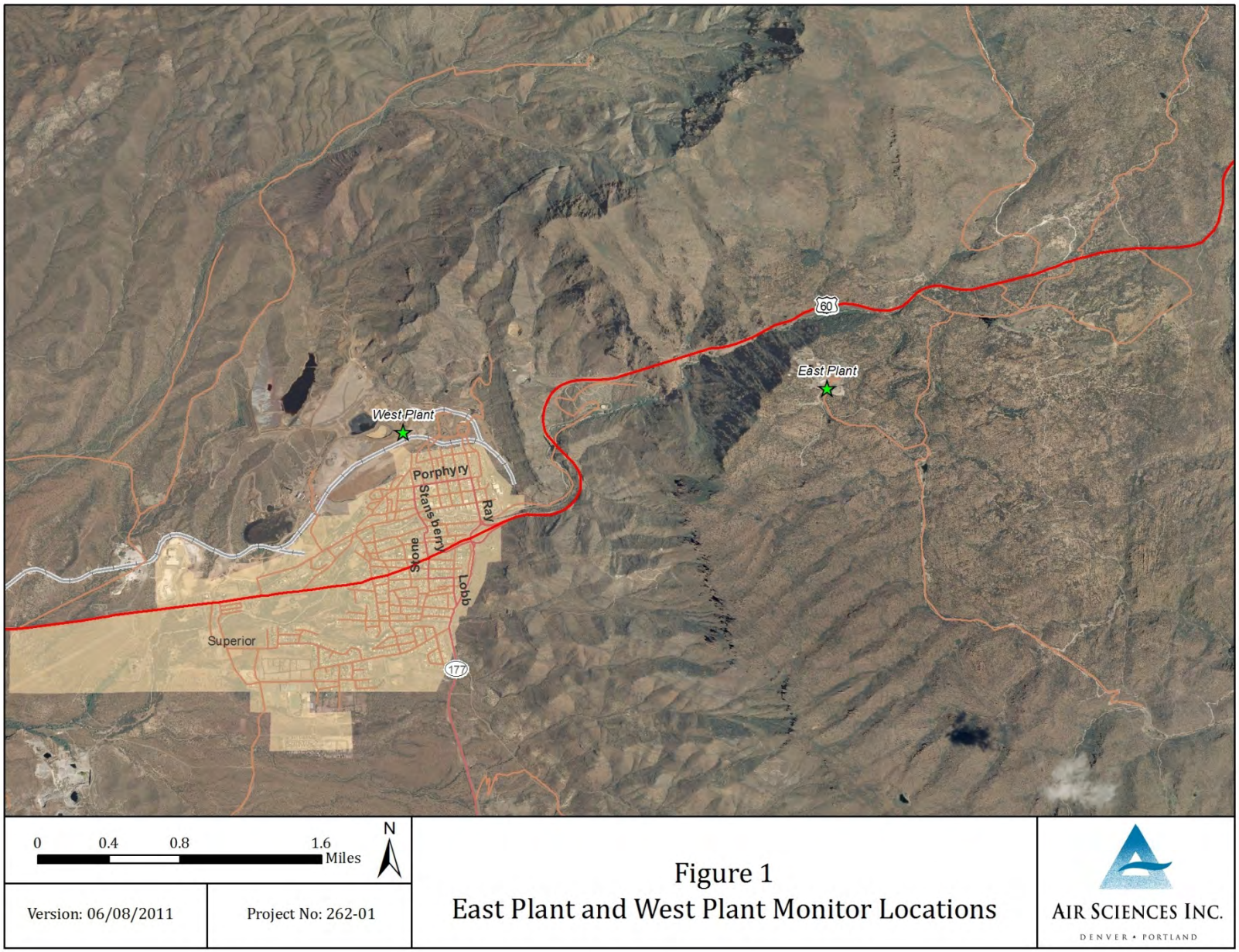
The Resolution Copper Project is located near Superior, Arizona. Currently there are two meteorological and air quality stations. The East Plant station is located at the main project site, east of Superior. The West Plant station is located at RCML's facilities directly north of Superior, Arizona. The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

Appendix A lists hourly meteorological data from October 1 through December 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 C lists hourly NO_2 data for the East Plant from October 1 through December 31, 2014.

Level 1 zero and span calibrations and Level 2 zero and span verifications 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 C lists hourly SO_2 data for the East Plant from October 1 through December 31, 2014.

Level 1 zero and span calibrations and Level 2 zero and span verifications 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 C lists hourly and rolling 8-hour average O_3 data for the East Plant from October 1 through December 31, 2014.

Level 1 zero and span calibrations and Level 2 zero and span verifications 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 B lists hourly $PM_{2.5}$ and PM_{10} data from October 1 through December 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
October 1 – December 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)	2,208	100	2,208	100	90
Wind direction (10 m)	2,208	100	2,208	100	90
Temperature (2 m)	2,208	100	2,208	100	90
Delta temperature	2,208	100	2,208	100	90
Relative humidity	2,208	100	2,208	100	90
Barometric pressure	2,208	100	2,208	100	90
Precipitation	2,208	100	2,208	100	90
Solar radiation	2,208	100	2,208	100	90
NO_2	92	100	--	--	75
O_3	89	96.7	--	--	75
SO_2	92	100	--	--	75
PM_{10}	92	100	80	87.0	75
$PM_{2.5}$	89	96.7	62	67.4	75

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

2.1 Data Loss

2.1.1 Meteorological Data Loss

2.1.1.1 East Plant

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

2.1.1.2 West Plant

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

2.1.2 NO_2 Data Loss

No NO_2 24-hour maximum data were invalidated for this quarter. Maintenance, and a calibration performed by Air Sciences on November 5, 2014 resulted in four invalid hours of data.

Additional invalid hourly NO_2 data were due to Level 1 and Level 2 zero/span checks.

2.1.3 SO_2 Data Loss

No SO_2 24-hour maximum data were invalidated for this quarter. Maintenance, and a calibration performed by Air Sciences on November 5, 2014 resulted in four invalid hours of data.

Additional invalid hourly SO_2 data were due to Level 1 and Level 2 zero/span checks.

2.1.4 O_3 Data Loss

O_3 rolling 8-hour maximum data were invalidated for November 5, 2014, due to maintenance, and a calibration performed by Air Sciences. O_3 rolling 8-hour maximum data were also invalidated for November 20, 2014, and December 19, 2014, due to Level 1 zero/span checks.

Additional invalid hourly O_3 data were due to Level 1 and Level 2 zero/span checks.

2.1.5 PM Data Loss

2.1.5.1 East Plant

No 24-hour average PM_{10} data were invalidated for this quarter. Three hours of PM_{10} data were invalidated on October 20, 2014, due to maintenance and a calibration performed by Air Sciences.

Hourly and 24-hour average $PM_{2.5}$ data were invalidated from October 1 to October 3, 2014, due to a pump failure. Two hours of $PM_{2.5}$ data were invalidated on October 20, 2014, as a result of maintenance and calibration 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 and 24-hour average PM_{10} data were invalidated on November 1, 2014 due to a power outage. Hourly and 24-hour average PM_{10} data were also invalidated from November 21, to December 1, 2014, as a result of the instrument being left in maintenance mode after a site check. Four hours of PM_{10} data were invalidated on October 20, 2014, as a result of maintenance and calibration performed by Air Sciences.

Hourly and 24-hour average $PM_{2.5}$ data were invalidated on October 14 and 15, 2014, October 21 and 22, 2014, and November 15 to November 17, 2014 due to tape break errors. Hourly and 24-hour average $PM_{2.5}$ data were also invalidated from December 9 to December 30, 2014 as a result of a pump failure. Three hours of $PM_{2.5}$ data were invalidated on October 20, 2014, due to maintenance and a calibration performed by Air Sciences. The recovery rate for $PM_{2.5}$ data at the West Plant was below the required recovery rate of 75%.

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

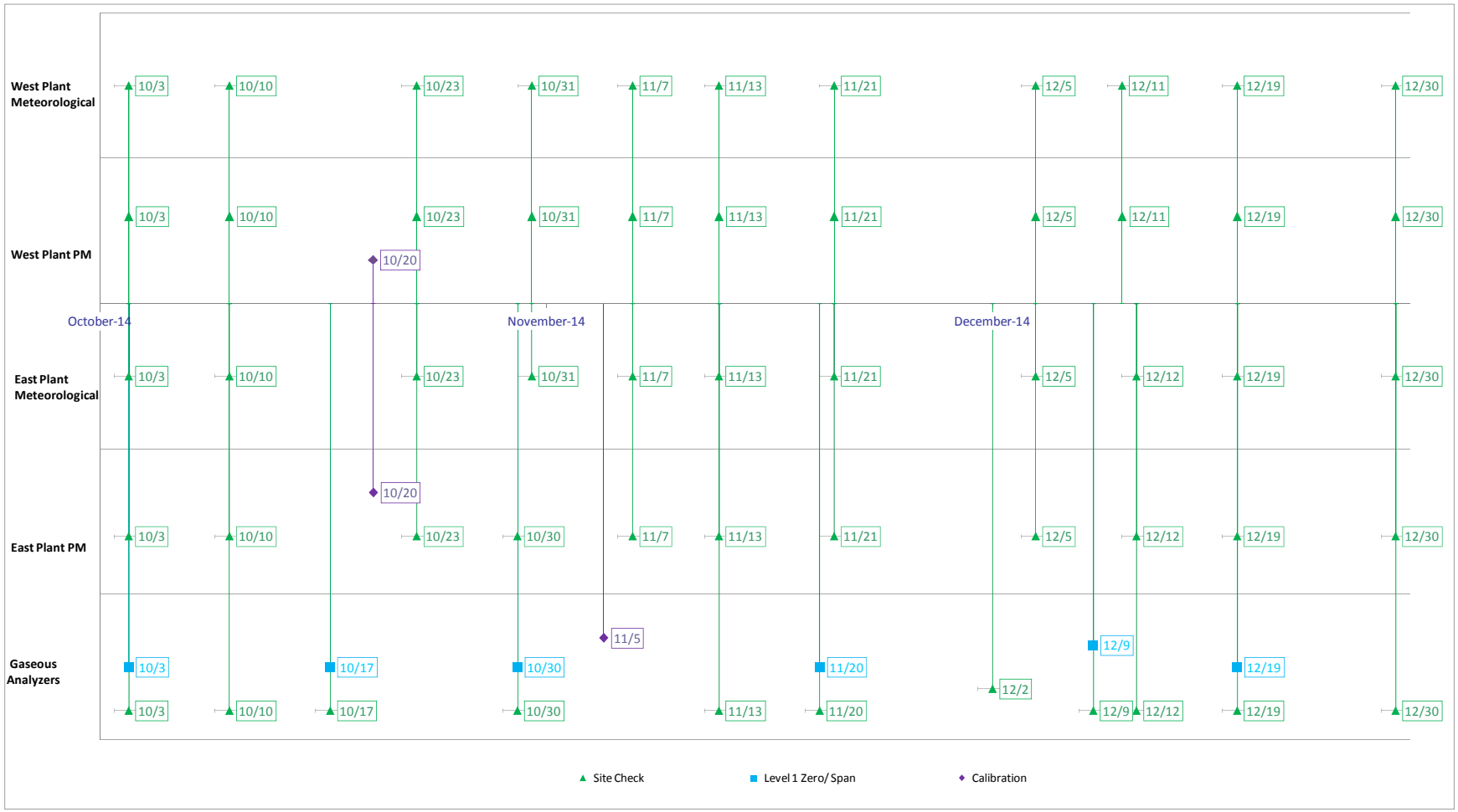
2.2 Quality Control

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-13-004, October 2013)
- 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. The most recent audit of the meteorological stations occurred between July 29, and July 31, 2014. 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 a calibrations of the particulate monitors on October 20, 2014, and a calibration of the air quality analyzers on November 5, 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 D-I.

Figure 2. Dates of Site Checks, Audits, and Calibrations
October 1- December 31, 2014



3.0 METEOROLOGICAL DATA SUMMARY AND DISCUSSION

3.1 Meteorological Data Summary

Meteorological data from the fourth quarter have been compiled and summarized in graphical and tabular form. Meteorological summary sheets (Figure 3 and Figure 4) are comprised of the following:

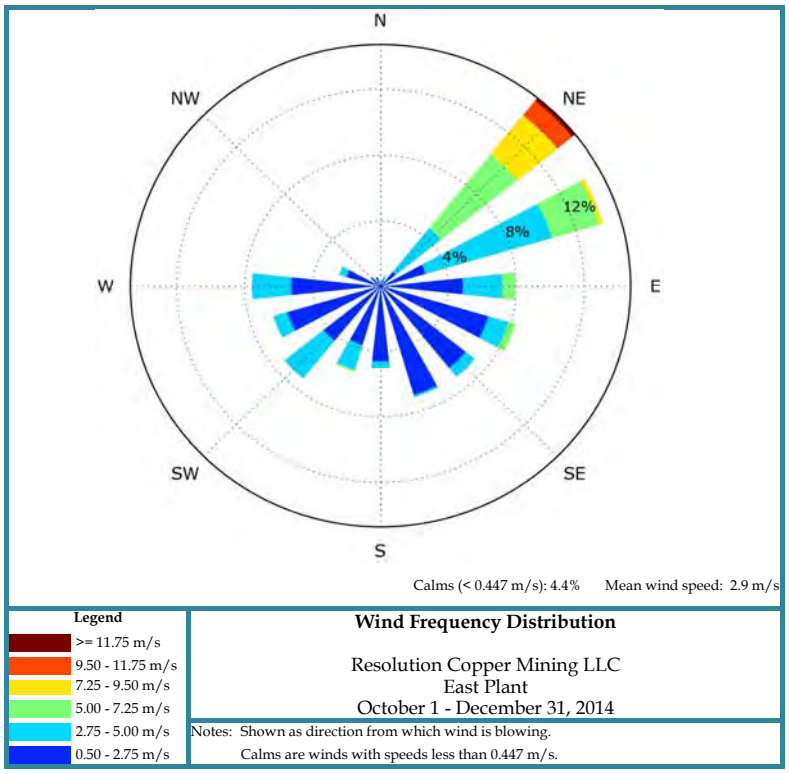
Wind Rose – Graphically depicts the percentage of winds that come from each of the 16 directions for the reported period. Wind speeds are divided into six subcategories ranging from less than 0.5 m/s (the measurement threshold of the instrument) to greater than 11.75 m/ s.

Wind Frequency Table –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.

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.

Figure 3: East Plant Meteorological Data Summary

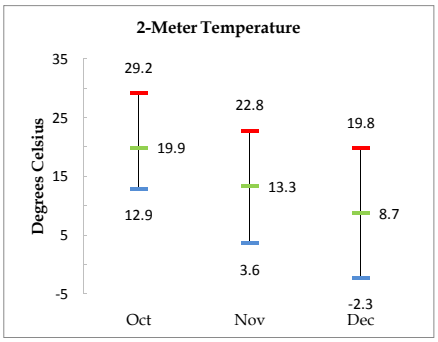
Meteorological Data: October 1 - December 31, 2014

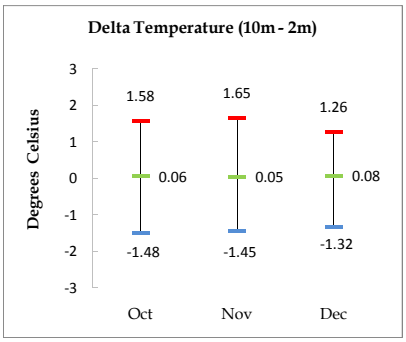


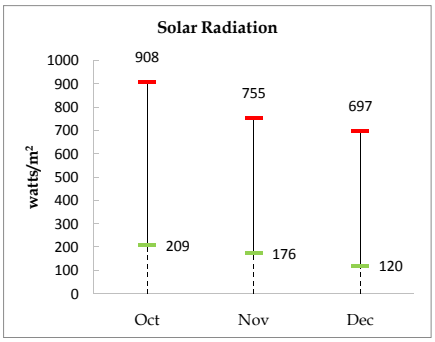
Direction	Speed Class Intervals (m/s) (percent of occurrence) 0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Mean Speed
N	0.2	0.0	0.1	0.0	0.0	0.0	0.4	2.1
NNE	0.1	0.3	0.2	0.0	0.0	0.0	0.7	2.6
NE	0.5	0.7	3.4	5.1	4.2	0.9	14.7	6.2
ENE	0.7	2.7	7.1	2.8	0.4	0.0	13.6	3.9
E	1.6	3.6	1.9	0.7	0.0	0.0	7.9	2.7
ESE	2.4	4.4	1.0	0.5	0.0	0.0	8.3	2.2
SE	3.6	3.0	0.5	0.0	0.0	0.0	7.1	1.6
SSE	5.4	1.5	0.1	0.0	0.0	0.0	7.1	1.2
S	3.2	1.5	0.3	0.0	0.0	0.0	5.0	1.4
SSW	1.7	2.4	1.3	0.1	0.0	0.0	5.5	2.2
SW	1.3	4.0	1.9	0.0	0.0	0.0	7.2	2.4
WSW	1.6	4.6	0.4	0.0	0.0	0.0	6.6	2.0
W	1.3	4.9	1.4	0.0	0.0	0.0	7.6	2.3
WNW	1.0	1.3	0.3	0.0	0.0	0.0	2.5	1.9
NW	0.5	0.2	0.1	0.0	0.0	0.0	0.8	1.7
NNW	0.4	0.2	0.0	0.0	0.0	0.0	0.6	1.3
All	25.5	35.4	20.2	9.1	4.6	0.9	95.6	2.9

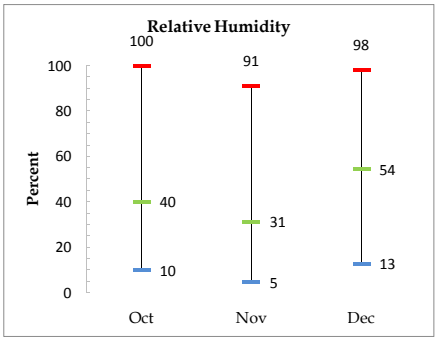
Key

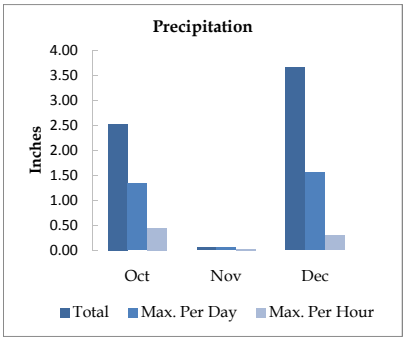
Maximum — Average — Minimum











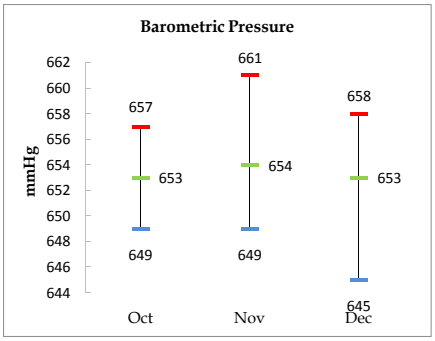
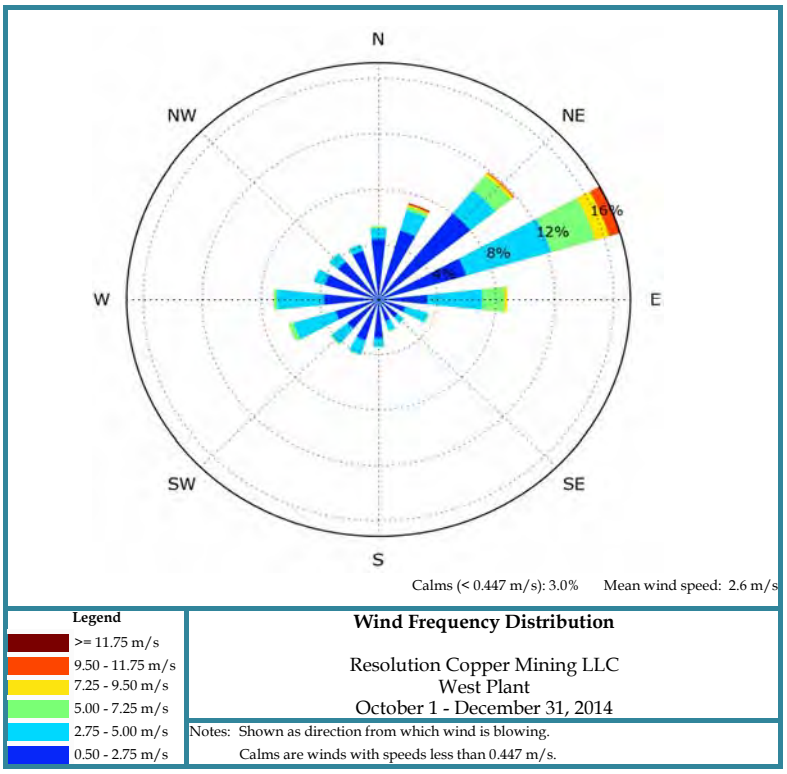


Figure 4: West Plant Meteorological Data Summary

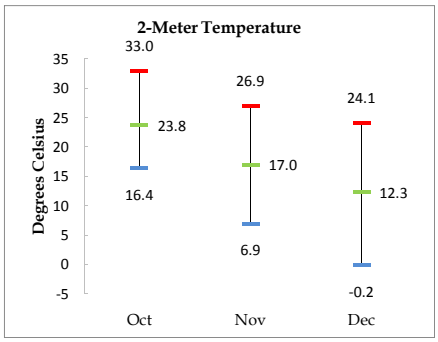
Meteorological Data: October 1 - December 31, 2014

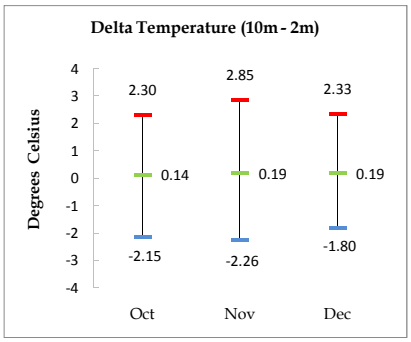


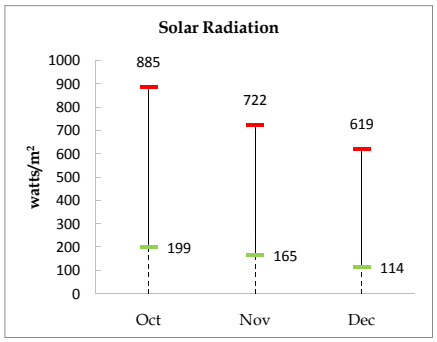
	Speed Class Intervals (m/s) (percent of occurrence)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	3.3	1.2	0.6	0.1	0.0	0.0	5.3	1.7
NNE	3.8	1.7	1.2	0.2	0.2	0.1	7.3	2.2
NE	4.3	4.1	1.8	1.3	0.3	0.1	11.9	2.6
ENE	2.8	4.0	5.4	3.0	1.3	0.6	17.1	4.0
E	1.1	2.8	3.1	1.5	0.2	0.0	8.7	3.4
ESE	0.7	1.5	1.2	0.1	0.0	0.0	3.6	2.6
SE	0.8	1.1	0.3	0.0	0.0	0.0	2.2	2.0
SSE	0.7	1.1	0.5	0.1	0.0	0.0	2.4	2.3
S	1.4	1.7	0.4	0.0	0.0	0.0	3.4	1.9
SSW	1.1	2.1	1.0	0.0	0.0	0.0	4.2	2.2
SW	0.9	2.2	1.1	0.1	0.0	0.0	4.2	2.4
WSW	1.0	2.6	2.4	0.3	0.0	0.0	6.3	2.8
W	1.2	3.2	2.5	0.2	0.0	0.0	7.1	2.7
WNW	2.0	2.0	0.5	0.0	0.0	0.0	4.6	1.7
NW	2.5	1.2	0.6	0.0	0.0	0.0	4.3	1.6
NNW	2.7	1.0	0.4	0.0	0.0	0.0	4.2	1.5
All	30.3	33.8	23.1	7.0	1.9	0.8	97.0	2.6

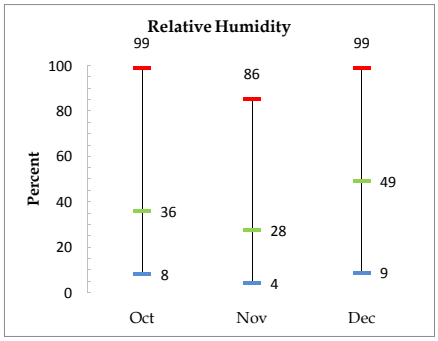
Key

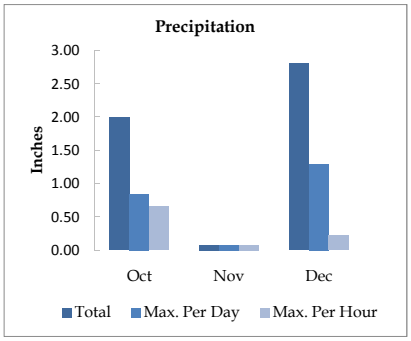
Maximum — Average — Minimum

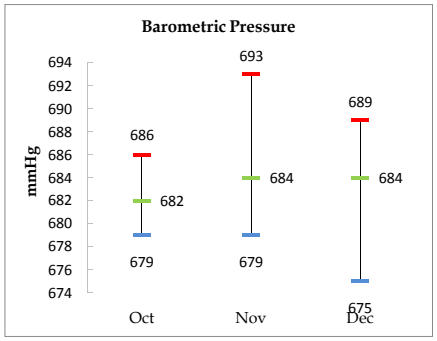












3.2 Meteorological Data Discussion

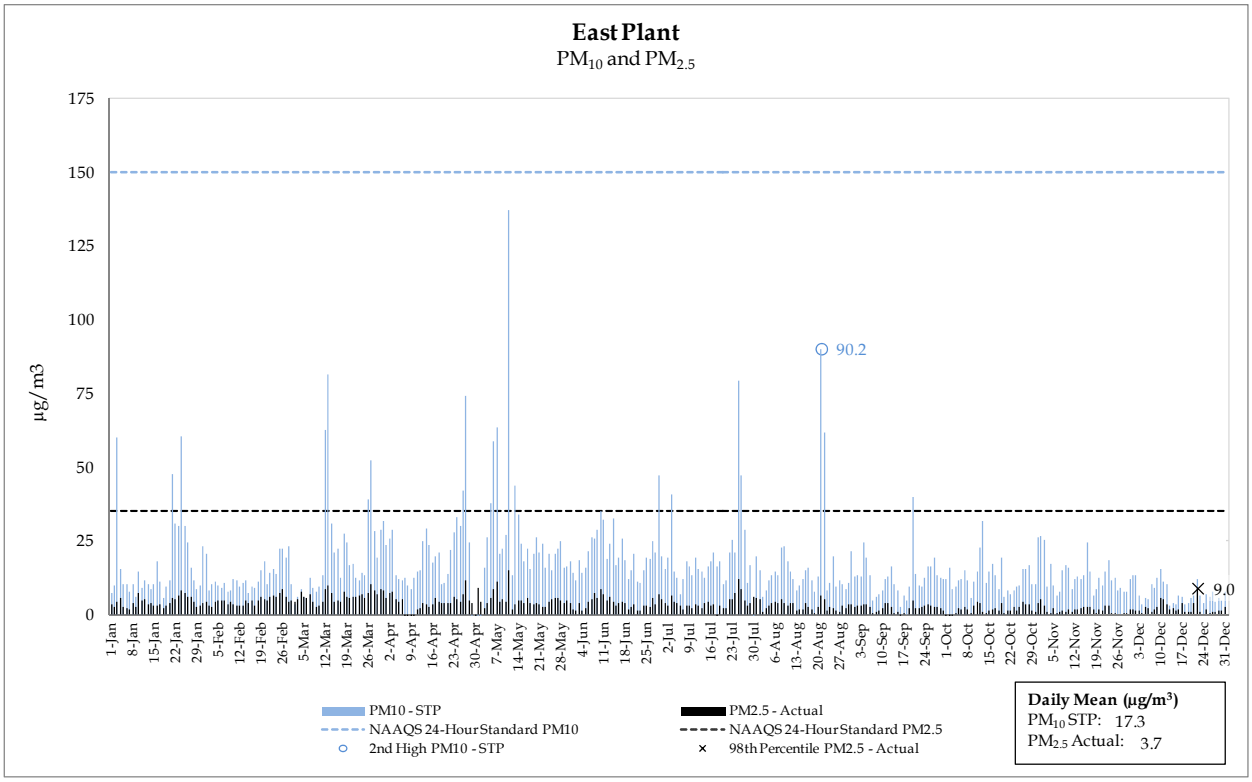
The meteorological data collected at the East and the West Plant sites for the fourth quarter of 2014 met all data recovery objectives.

4.0 PM DATA SUMMARY AND DISCUSSION

4.1 East Plant PM Data Summary

Figure 5 presents the PM_{10} and $PM_{2.5}$ data collected at the East Plant site for 2014, 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.

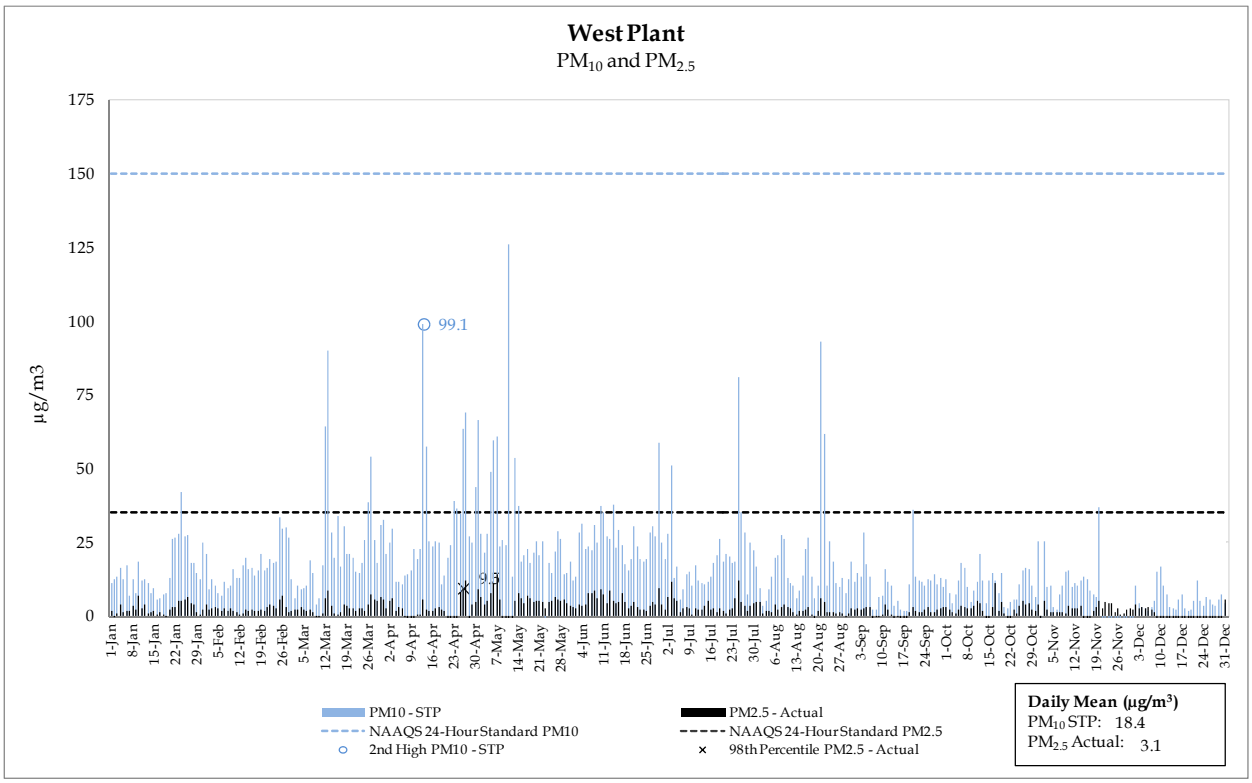
Figure 5. East Plant Particulate Data



4.2 West Plant PM Data Summary

Figure 6 presents the PM_{10} and $PM_{2.5}$ data collected at the West Plant site for 2014, 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. West Plant Particulate Data



4.3 PM Data Discussion

4.3.1 PM_{10}

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

As shown in Figure 5 and Figure 6, the second-high PM_{10} concentrations recorded at the East and West Plants are 90.2 µg/m³ and 99.1 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 5 and Figure 6, arithmetic mean concentrations for the East and West Plants are 3.7 and 3.1 $\mu g/m^3$, respectively. Both the East and West Plants' arithmetic mean values are below the NAAQS of 12 $\mu g/m^3$.

Figure 5 and Figure 6 also show the 98th percentile concentrations at the East and West Plants, which were 9.0 and 9.5 $\mu g/m^3$, 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 7 and Figure 8 present the NO_2 maximum hourly concentrations for each calendar day, and hourly data collected at the East Plant site for 2014. Figure 7 shows the 98th percentile compared to the one-hour NO_2 standard. Figure 8 shows the mean hourly NO_2 concentration compared with the annual NO_2 standard.

Figure 7. NO_2 Maximum Hourly Concentration for Each Calendar Day

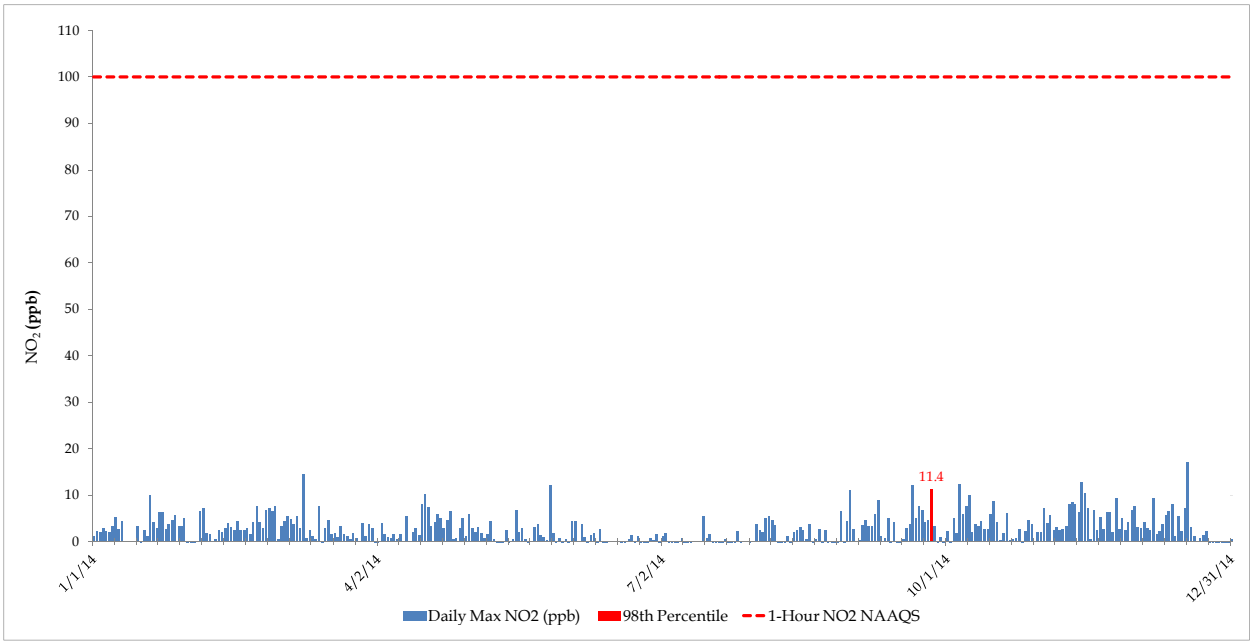
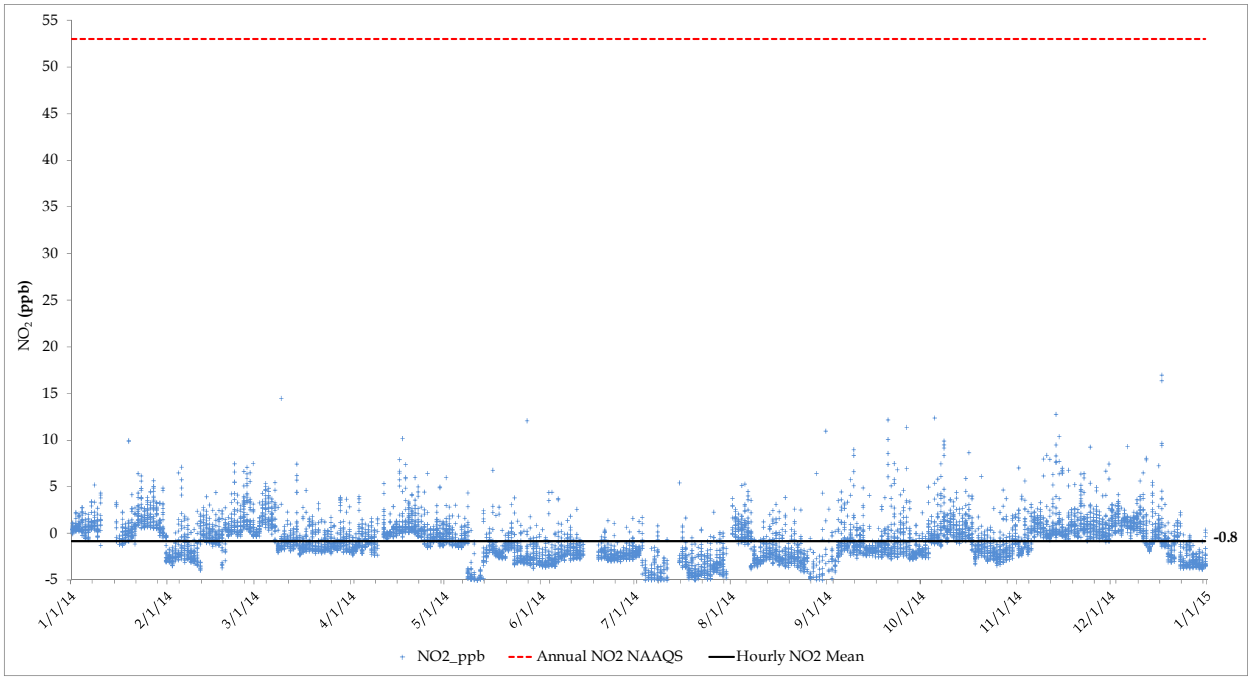


Figure 8. NO_2 Mean Hourly Concentrations



5.2 NO_2 Data Discussion

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

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

As shown in Figure 7, the 98th percentile of the daily maximum 1-hour average NO_2 concentration for 2014 is 11.4 ppb, which is less than the NAAQS 1-hour primary standard of 100. As shown in Figure 8, the 2014 hourly NO_2 average is -0.8 ppb, which is below the annual NO_2 NAAQS of 53 ppb. Slight, negative concentrations are normal when the analyzer is operating near the zero calibration set point.

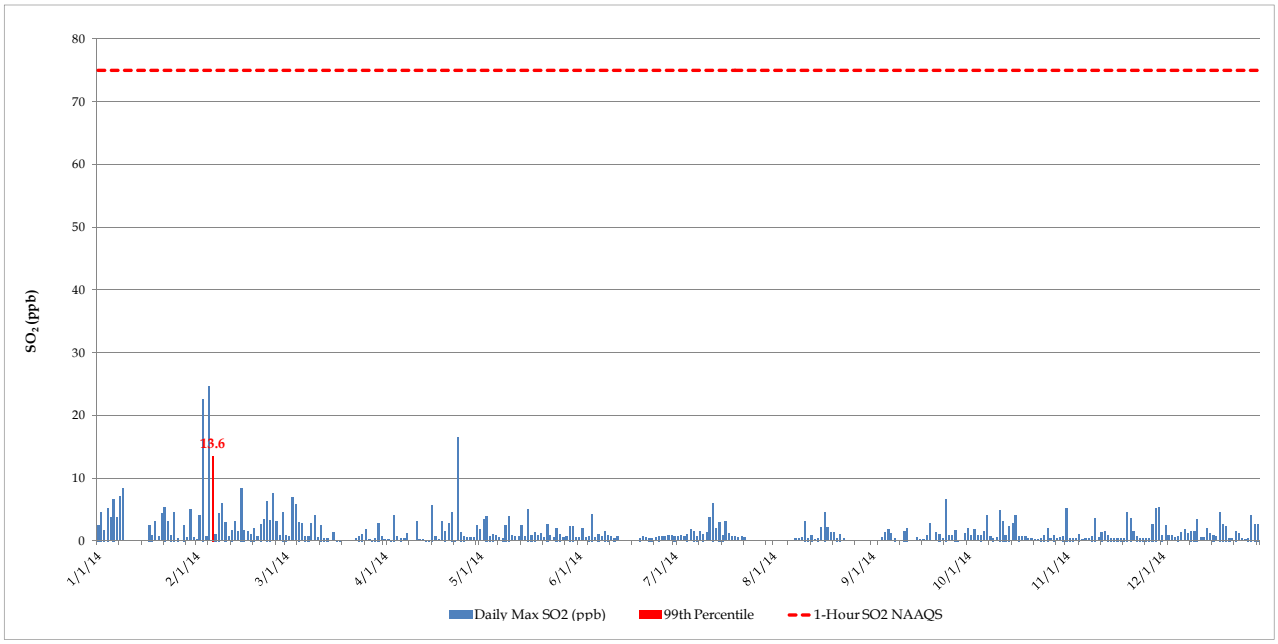
Actual comparison to the NAAQS requires three calendar years of monitoring data, which have not been obtained at this time.

6.0 SO_2 DATA SUMMARY AND DISCUSSION

6.1 SO_2 Data Summary

Figure 9 presents the maximum hourly SO_2 concentrations for each calendar day collected at the East Plant site for 2014, and it shows the 99th percentile (labeled) compared to the one-hour SO_2 standard.

Figure 9. SO_2 Maximum Hourly Concentration for Each Calendar Day



6.2 SO_2 Data Discussion

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

As shown in Figure 9, the 99th percentile 1-hour maximum concentration for 2014 is 13.6 ppb, which is below the annual SO_2 NAAQS of 75 ppb.

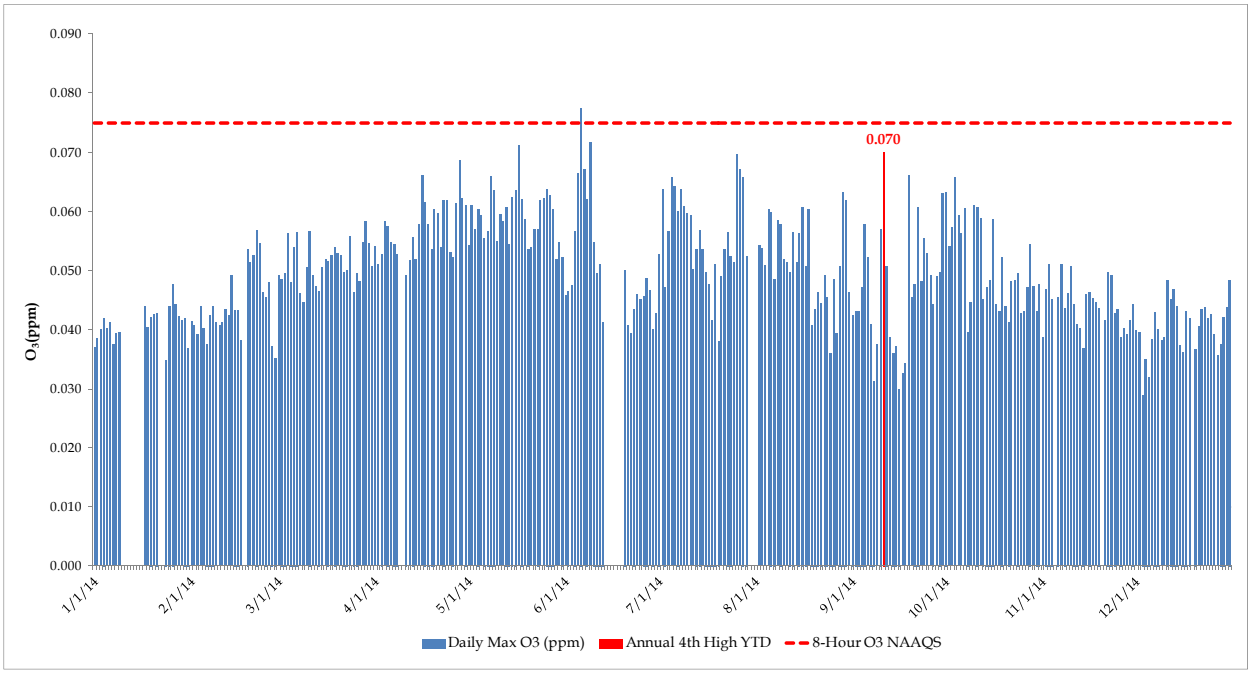
Actual comparison to the NAAQS requires three calendar years of monitoring data, which have not been obtained at this time.

7.0 O_3 DATA SUMMARY AND DISCUSSION

7.1 O_3 Data Summary

Figure 10 presents the daily rolling 8-hour maximum O_3 data collected at the East Plant site for 2014, and it shows the fourth-highest rolling 8-hour average compared to the eight-hour O_3 standard.

Figure 10. O_3 Daily Rolling 8-Hour Maximum, 2014



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 10 shows that the averaged fourth-high maximum recorded at the East Plant is 0.070 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: Meteorological Data – Hourly

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Oct 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	0.5	0.1	0.3	0.5	0.5	0.6	1.0	0.6	1.1	2.2	1.5	2.2	2.7	2.6	2.7	2.2	2.1	2.0	2.1	2.7	1.7	1.6	1.3	2.9	1.6	2.9	0.1
2	3.8	2.5	1.5	6.5	6.1	7.0	9.2	9.7	9.6	9.0	8.5	5.8	6.8	5.6	4.9	3.7	3.6	3.2	1.4	1.1	2.0	5.9	5.9	4.3	5.3	9.7	1.1
3	4.5	3.0	3.0	4.7	3.0	2.7	2.6	3.1	5.5	6.0	7.4	8.5	8.5	6.2	5.7	4.7	4.9	4.7	2.5	1.6	2.0	2.5	5.3	3.9	4.4	8.5	1.6
4	2.3	2.6	2.6	2.6	2.5	2.4	2.3	2.8	4.8	5.2	4.5	2.3	1.8	2.3	2.3	2.4	2.0	1.9	1.2	0.8	1.6	1.4	1.8	1.6	2.4	5.2	0.8
5	1.1	1.2	0.7	0.4	0.8	0.5	0.2	0.5	1.1	2.0	2.5	2.3	2.5	2.4	2.6	2.4	2.8	2.2	2.3	2.4	1.2	0.6	0.3	0.7	1.5	2.8	0.2
6	1.3	1.3	1.1	0.9	0.4	0.7	1.4	1.3	1.0	1.9	1.6	1.5	3.0	2.8	2.7	2.1	2.0	3.0	3.3	1.2	0.2	0.7	0.3	0.2	1.5	3.3	0.2
7	0.3	0.1	0.3	0.4	0.6	0.8	1.1	1.0	1.2	0.9	0.8	1.4	2.2	2.1	2.4	2.4	2.6	2.7	1.4	2.0	2.7	1.8	2.8	1.1	1.5	2.8	0.1
8	1.1	2.7	1.1	1.8	1.9	3.4	4.1	4.6	5.1	3.9	2.2	2.1	1.8	4.1	4.3	4.5	4.0	3.2	2.3	1.5	0.9	1.1	0.9	1.4	2.7	5.1	0.9
9	1.0	0.8	1.5	2.8	3.4	3.4	3.0	3.9	2.7	2.4	2.5	2.5	1.8	1.9	1.5	2.0	1.9	1.8	1.1	0.6	1.4	0.9	0.6	1.0	1.9	3.9	0.6
10	0.6	0.7	0.3	0.5	0.6	0.8	0.9	0.5	0.9	1.8	2.5	3.0	3.1	3.0	3.1	2.4	2.2	2.1	3.2	2.2	1.9	0.5	0.9	0.7	1.6	3.2	0.3
11	0.8	1.2	1.3	1.6	0.8	1.4	1.5	1.7	3.0	3.0	1.9	2.0	1.6	2.3	2.5	2.3	2.2	1.9	2.8	2.5	1.2	0.8	0.6	0.5	1.7	3.0	0.5
12	0.6	0.7	0.3	0.4	0.4	0.3	0.5	0.5	1.1	2.0	2.1	2.6	2.6	2.5	3.2	3.6	2.9	2.8	1.8	1.5	1.4	1.6	4.3	6.8	1.9	6.8	0.3
13	7.3	7.4	9.5	10.5	10.2	10.0	10.1	8.5	9.0	8.9	6.2	6.1	5.4	4.6	2.1	1.3	1.6	1.9	0.6	0.6	0.9	4.0	3.9	3.0	5.6	10.5	0.6
14	5.5	4.1	3.8	6.7	6.0	4.1	5.9	5.1	6.4	6.0	5.6	5.9	4.2	6.0	6.7	5.7	3.9	4.5	2.7	1.8	1.7	1.8	2.2	2.8	4.6	6.7	1.7
15	3.0	2.6	2.7	3.3	2.9	3.1	3.1	3.5	3.5	3.3	4.1	3.6	3.1	3.2	2.7	1.7	1.8	2.4	1.2	0.4	0.6	0.9	0.7	0.1	2.4	4.1	0.1
16	0.2	0.5	0.1	0.3	0.7	1.1	0.7	1.2	2.0	2.1	2.6	3.0	2.7	2.3	2.7	2.0	2.0	1.7	1.6	0.8	0.6	0.5	0.3	0.4	1.4	3.0	0.1
17	0.4	0.6	0.6	0.9	0.9	0.8	0.9	1.3	1.0	0.7	1.7	1.8	3.9	4.6	3.6	2.5	1.3	1.4	1.2	1.3	1.5	1.1	1.1	1.3	1.5	4.6	0.4
18	1.3	1.4	1.7	1.7	1.8	1.8	1.5	2.1	3.0	4.5	4.9	4.1	3.8	3.8	3.4	3.3	3.0	3.0	1.2	1.0	1.2	1.3	1.3	1.2	2.4	4.9	1.0
19	1.1	1.5	1.6	2.1	3.5	3.5	4.2	4.3	5.8	7.7	7.0	6.3	6.1	6.8	5.6	3.8	4.4	2.8	4.7	3.9	5.4	3.5	3.9	3.5	4.3	7.7	1.1
20	3.5	3.7	4.4	5.1	6.6	6.6	7.8	6.0	5.4	5.3	6.1	4.3	3.3	2.1	2.0	0.6	2.6	3.8	3.4	4.0	3.2	2.3	2.1	2.1	4.0	7.8	0.6
21	2.4	2.1	2.9	3.0	3.1	3.3	4.0	5.0	5.8	6.2	6.2	5.2	3.2	2.7	2.0	1.1	2.0	1.0	0.9	0.3	0.8	0.7	0.6	1.2	2.7	6.2	0.3
22	1.0	1.1	1.5	2.1	2.5	2.4	4.7	3.6	3.7	4.0	3.0	2.2	1.7	2.1	1.7	1.7	1.4	1.8	2.0	0.4	1.0	1.5	1.4	1.9	2.1	4.7	0.4
23	1.7	2.0	1.6	1.8	1.8	1.9	1.9	1.9	2.8	3.7	3.2	2.3	2.0	2.1	1.1	1.7	0.7	0.8	1.4	0.9	1.3	1.6	1.6	1.3	1.8	3.7	0.7
24	1.3	1.5	1.9	1.3	1.7	1.6	2.0	2.6	3.0	3.9	3.8	3.2	2.1	1.9	1.8	1.3	0.7	1.6	1.9	0.5	1.4	1.4	1.6	1.0	1.9	3.9	0.5
25	1.2	1.4	1.5	1.6	1.9	2.0	2.0	2.0	2.4	2.9	2.5	2.5	2.0	1.7	1.4	1.1	1.5	1.5	0.4	0.5	0.4	1.9	2.0	2.1	1.7	2.9	0.4
26	1.2	0.3	0.3	0.4	0.3	0.4	0.6	0.5	0.7	2.0	1.5	3.0	2.0	2.8	3.5	2.8	2.8	2.7	1.4	0.8	0.3	0.3	0.9	0.5	1.3	3.5	0.3
27	1.2	0.4	0.6	0.6	0.2	0.5	0.6	0.6	0.8	1.4	2.3	2.3	2.9	2.1	2.2	2.2	1.6	1.5	1.1	1.1	0.7	0.9	0.7	0.4	1.2	2.9	0.2
28	0.3	0.7	0.5	0.6	0.6	0.8	1.0	1.2	2.5	2.1	1.6	1.4	1.5	2.4	1.6	1.5	1.9	2.4	3.0	0.9	0.4	1.1	1.2	1.0	1.3	3.0	0.3
29	1.8	1.9	1.9	2.0	2.1	2.3	2.1	2.6	2.7	3.5	4.3	3.5	3.4	2.7	2.2	2.1	2.4	1.1	0.7	0.9	1.3	1.3	1.7	1.5	2.2	4.3	0.7
30	1.8	1.6	1.9	1.9	2.1	2.0	2.3	2.2	3.3	3.7	4.2	4.6	4.9	4.0	3.3	1.8	1.9	2.1	1.3	1.6	2.0	2.1	1.5	1.8	2.5	4.9	1.3
31	1.5	2.0	2.2	2.7	3.6	3.9	3.8	3.9	5.7	5.3	6.3	6.2	5.4	5.0	4.8	4.6	4.5	3.3	3.9	3.0	2.8	1.4	1.6	2.4	3.7	6.3	1.4
Avg	1.8	1.7	1.8	2.3	2.4	2.5	2.8	2.9	3.4	3.8	3.7	3.5	3.3	3.2	3.0	2.5	2.4	2.4	1.9	1.4	1.5	1.6	1.8	1.8	2.5	--	--
Max	7.3	7.4	9.5	10.5	10.2	10.0	10.1	9.7	9.6	9.0	8.5	8.5	8.5	6.8	6.7	5.7	4.9	4.7	4.7	4.0	5.4	5.9	5.9	6.8	--	10.5	--
Min	0.2	0.1	0.1	0.3	0.2	0.3	0.2	0.5	0.7	0.7	0.8	1.4	1.5	1.7	1.1	0.6	0.7	0.8	0.4	0.3	0.2	0.3	0.3	0.1	--	--	0.1

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Nov 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	1.2	1.2	0.4	0.9	1.7	2.2	1.7	1.9	3.7	3.6	4.7	4.2	4.4	3.5	2.3	3.3	3.0	3.0	3.6	4.1	4.1	3.2	3.7	3.3	2.9	4.7	0.4
2	2.9	3.0	3.1	2.9	1.6	1.6	1.9	1.5	2.1	1.7	1.8	2.3	2.0	2.5	3.3	3.0	2.5	2.1	2.2	2.6	0.9	0.9	0.7	1.7	2.1	3.3	0.7
3	1.0	1.1	1.3	1.6	2.0	2.0	2.4	3.0	4.1	4.5	3.5	2.1	2.3	2.7	2.8	3.0	2.9	2.6	2.8	3.1	2.6	1.9	1.1	0.8	2.4	4.5	0.8
4	0.9	5.0	6.4	7.5	8.0	10.4	10.2	9.9	10.6	12.4	10.9	9.9	6.5	6.2	5.9	5.9	5.2	5.4	5.4	4.5	5.6	5.6	3.3	5.7	7.0	12.4	0.9
5	6.1	4.5	5.9	6.8	7.8	7.1	9.6	8.1	11.0	11.5	11.6	10.6	8.1	6.5	3.2	3.7	3.7	1.5	1.9	3.1	2.8	2.7	3.5	3.3	6.0	11.6	1.5
6	5.0	7.1	7.0	4.3	4.4	2.9	3.9	6.1	6.8	7.0	6.6	5.8	6.6	6.8	5.8	5.9	4.7	3.1	2.6	2.6	2.6	3.6	3.5	4.5	5.0	7.1	2.6
7	5.3	3.2	6.4	5.5	5.0	5.3	3.9	4.4	5.3	5.7	5.4	4.6	3.8	2.3	1.6	2.1	2.5	3.5	3.7	0.9	0.7	1.2	0.4	1.1	3.5	6.4	0.4
8	1.3	1.4	1.7	1.8	4.2	4.5	4.6	5.9	6.5	6.8	7.2	7.0	6.2	5.3	4.4	4.8	6.0	3.2	2.9	3.2	3.7	4.5	3.1	3.7	4.3	7.2	1.3
9	4.2	4.4	4.9	6.1	7.6	8.1	7.9	8.1	7.8	7.1	6.5	4.9	3.4	2.2	1.4	1.2	1.1	1.7	1.8	1.2	0.2	0.7	0.4	0.3	3.9	8.1	0.2
10	0.5	0.4	0.3	0.2	0.4	0.5	0.6	0.5	0.8	2.8	3.2	3.2	3.6	3.0	3.5	4.3	2.1	3.0	3.0	4.5	4.4	2.3	2.9	3.9	2.2	4.5	0.2
11	3.7	3.1	2.9	2.9	2.3	2.1	1.4	0.3	1.3	2.7	3.1	3.0	3.2	2.9	2.5	2.5	2.7	2.1	2.6	1.9	1.9	2.2	1.6	1.3	2.3	3.7	0.3
12	0.7	0.2	0.5	0.5	1.3	0.6	1.2	2.2	2.5	2.7	3.0	2.7	2.7	2.6	1.9	2.7	2.9	1.7	0.4	0.6	0.3	0.3	0.3	0.3	1.5	3.0	0.2
13	0.6	0.5	0.3	0.7	0.7	0.7	0.8	1.1	1.7	2.1	1.7	3.1	3.8	3.1	2.6	2.9	1.9	1.9	0.7	0.9	0.9	0.8	1.0	0.8	1.5	3.8	0.3
14	0.9	0.2	0.8	0.8	0.8	1.1	1.1	1.0	1.5	2.3	2.5	3.0	3.7	2.6	2.2	2.1	1.7	1.6	1.2	2.2	2.7	2.5	2.2	2.4	1.8	3.7	0.2
15	2.3	1.8	2.0	0.6	0.8	0.6	0.2	0.7	1.0	1.6	1.9	2.5	2.2	2.3	2.8	2.8	2.5	2.1	1.9	1.8	1.3	1.5	1.0	1.3	1.6	2.8	0.2
16	3.9	3.2	1.5	1.9	1.6	1.2	3.1	2.8	3.2	3.9	8.4	8.8	8.9	8.9	9.4	8.4	5.6	6.0	6.3	8.1	9.8	9.5	11.8	12.9	6.2	12.9	1.2
17	11.9	11.6	12.1	8.9	9.0	11.7	11.0	10.5	9.2	8.4	9.0	9.9	8.7	6.7	5.1	5.2	5.0	4.0	3.6	4.4	4.6	5.1	6.7	8.1	7.9	12.1	3.6
18	6.7	5.3	5.3	7.3	9.1	9.1	9.5	7.1	7.2	6.2	8.7	7.5	6.9	5.4	5.2	4.5	3.7	2.1	1.1	2.1	2.7	3.3	2.5	2.1	5.4	9.5	1.1
19	3.2	3.8	3.1	3.2	3.2	3.3	3.6	3.7	4.1	5.6	6.1	5.4	3.6	1.9	1.6	1.7	1.5	0.9	0.3	0.7	0.5	0.5	0.4	0.6	2.6	6.1	0.3
20	0.5	0.7	0.5	0.6	0.5	1.0	1.1	1.4	1.0	1.2	1.3	1.4	2.4	2.1	1.7	2.0	1.8	1.8	1.5	1.0	0.2	0.8	0.5	0.5	1.2	2.4	0.2
21	0.8	1.3	0.9	1.2	1.4	1.6	1.3	1.3	1.2	1.7	2.1	3.0	1.8	1.5	1.2	1.7	1.2	1.9	1.2	1.1	0.8	0.9	0.8	1.1	1.4	3.0	0.8
22	1.6	1.6	2.0	1.9	1.8	2.1	1.9	1.9	1.7	2.6	2.4	3.1	3.1	2.4	2.3	2.4	1.6	2.2	1.0	0.4	0.6	0.6	0.7	1.0	1.8	3.1	0.4
23	1.5	0.9	1.3	1.4	0.9	0.6	0.4	0.4	1.2	2.6	3.7	3.5	3.5	2.8	3.8	4.4	3.6	2.6	2.5	4.1	3.5	1.4	1.7	1.4	2.2	4.4	0.4
24	1.3	1.3	1.2	3.4	3.1	2.3	1.6	2.1	2.6	2.9	3.5	2.0	3.1	4.2	4.6	3.1	3.2	3.0	1.7	3.5	5.2	5.5	5.6	6.5	3.2	6.5	1.2
25	5.8	6.6	5.6	7.0	6.9	6.9	7.1	5.8	5.7	5.5	4.8	2.4	2.2	2.0	2.3	2.8	2.9	3.8	3.7	2.6	2.1	0.5	1.3	1.5	4.1	7.1	0.5
26	1.0	1.7	1.5	2.3	1.7	2.9	2.3	2.2	3.8	9.0	7.1	5.2	4.3	4.8	3.8	3.6	2.7	2.4	2.4	3.6	4.0	5.8	6.4	9.0	3.9	9.0	1.0
27	5.6	4.5	7.5	6.9	6.4	8.0	6.5	5.5	7.6	7.3	8.4	8.3	7.4	6.6	6.2	5.6	5.7	6.2	4.4	2.9	3.4	3.4	3.1	3.4	5.9	8.4	2.9
28	3.6	4.3	7.2	6.2	6.7	6.6	5.7	5.7	4.9	5.0	5.2	4.8	3.5	2.6	1.5	1.3	0.2	0.6	0.4	1.1	1.0	1.0	0.7	0.6	3.3	7.2	0.2
29	0.8	0.7	1.1	0.6	1.1	0.8	1.2	1.3	1.4	1.0	1.9	1.8	2.9	2.7	3.3	2.6	3.5	1.1	0.6	0.9	0.6	0.5	2.0	0.8	1.5	3.5	0.5
30	1.6	0.8	0.6	2.3	2.2	1.4	0.6	0.4	0.6	1.3	3.6	3.8	2.9	2.4	2.3	3.3	2.3	2.1	2.1	1.7	1.7	1.0	0.6	0.9	1.8	3.8	0.4
Avg	2.9	2.9	3.2	3.3	3.5	3.6	3.6	3.6	4.1	4.6	5.0	4.7	4.3	3.7	3.4	3.4	3.0	2.6	2.3	2.5	2.5	2.5	2.5	2.8	3.3	--	--
Max	11.9	11.6	12.1	8.9	9.1	11.7	11.0	10.5	11.0	12.4	11.6	10.6	8.9	8.9	9.4	8.4	6.0	6.2	6.3	8.1	9.8	9.5	11.8	12.9	--	12.9	--
Min	0.5	0.2	0.3	0.2	0.4	0.5	0.2	0.3	0.6	1.0	1.3	1.4	1.8	1.5	1.2	1.2	0.2	0.6	0.3	0.4	0.2	0.3	0.3	0.3	--	--	0.2

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Dec 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	0.6	0.6	0.8	1.0	1.2	1.2	1.2	1.5	1.6	1.7	2.9	2.9	4.4	5.7	5.2	4.4	4.2	2.4	1.5	2.7	4.7	3.1	3.3	3.2	2.6	5.7	0.6
2	4.0	3.4	3.3	4.9	4.2	4.8	5.2	3.6	4.0	4.6	3.8	3.7	2.9	2.8	2.0	1.4	1.6	1.4	2.0	3.5	1.9	2.2	2.7	3.1	3.2	5.2	1.4
3	3.4	3.2	3.1	2.3	1.5	1.6	1.7	1.9	2.6	2.0	2.9	2.6	2.2	1.5	2.0	1.3	0.8	0.7	0.8	0.5	0.4	1.1	0.7	0.4	1.7	3.4	0.4
4	2.5	2.8	1.1	0.9	0.9	1.8	1.8	3.2	3.8	3.0	3.1	3.5	2.2	1.7	1.9	2.1	1.4	1.7	1.6	1.1	0.9	1.2	1.2	0.7	1.9	3.8	0.7
5	0.3	0.6	0.9	0.7	0.6	1.6	1.7	2.7	3.5	4.1	4.6	3.8	4.3	4.8	4.8	5.0	4.4	3.1	3.1	2.6	2.5	2.6	3.3	1.5	2.8	5.0	0.3
6	1.8	1.7	2.7	3.0	3.9	3.6	3.4	3.1	3.7	5.1	4.4	3.1	3.7	3.1	3.3	3.4	2.0	3.1	2.8	5.2	4.9	4.0	3.9	3.4	3.4	5.2	1.7
7	3.6	1.9	1.5	2.7	6.6	8.8	4.9	4.6	6.0	5.8	8.9	8.4	6.8	6.2	6.1	6.7	4.7	3.4	4.8	5.2	5.9	4.3	3.6	4.1	5.2	8.9	1.5
8	5.5	8.3	8.8	7.0	4.4	6.2	5.4	5.8	7.1	7.3	7.4	7.4	7.7	7.7	7.1	5.1	3.6	3.8	4.7	2.6	2.5	3.5	2.6	3.3	5.6	8.8	2.5
9	2.4	2.9	3.5	4.6	4.9	4.6	6.1	6.5	6.2	5.9	6.3	6.3	4.2	2.5	2.1	2.0	2.4	1.6	0.9	1.9	2.0	1.8	2.0	1.6	3.6	6.5	0.9
10	3.1	5.8	4.7	3.4	3.2	3.8	3.4	4.6	4.7	5.3	5.9	5.3	5.3	4.7	4.1	2.5	1.4	1.1	1.0	2.4	1.1	1.9	1.9	1.7	3.4	5.9	1.0
11	1.0	1.4	0.4	2.2	2.1	2.0	1.9	1.9	2.5	2.8	3.2	3.6	3.3	2.1	1.7	1.4	1.9	2.0	0.8	1.1	0.9	0.5	0.1	0.1	1.7	3.6	0.1
12	0.5	0.9	0.7	0.6	1.0	1.1	0.9	1.1	0.8	1.8	2.9	2.9	3.3	3.0	2.8	1.6	1.5	2.0	2.9	2.6	4.2	3.7	2.2	3.0	2.0	4.2	0.5
13	2.8	3.2	3.3	3.5	3.4	5.3	5.7	4.0	3.2	3.3	2.7	3.0	1.6	2.3	1.9	2.0	4.2	3.6	2.8	2.8	1.3	1.0	0.9	0.8	2.8	5.7	0.8
14	1.2	1.1	0.8	0.3	0.3	0.2	0.2	0.2	0.3	0.6	1.5	2.4	2.9	2.1	2.3	2.0	2.2	3.2	2.1	0.8	1.2	1.0	1.7	1.6	1.3	3.2	0.2
15	1.7	2.0	2.4	2.3	2.5	2.3	2.9	2.4	3.3	4.9	4.9	5.6	4.5	4.2	4.6	4.6	3.0	1.9	2.0	2.1	1.7	1.3	2.3	1.8	3.0	5.6	1.3
16	1.3	1.6	1.7	2.2	1.7	1.9	1.5	1.0	1.4	1.7	1.9	2.6	1.6	2.3	2.6	2.3	2.8	1.3	2.7	1.2	0.9	1.1	1.8	1.3	1.8	2.8	0.9
17	0.5	1.1	1.3	2.5	2.1	1.1	1.2	1.6	3.3	4.5	3.6	3.9	3.1	2.3	1.8	1.3	2.0	1.6	0.7	0.6	0.8	1.4	1.9	1.9	1.9	4.5	0.5
18	2.0	2.1	1.9	2.1	1.7	2.0	2.2	2.1	1.8	1.2	0.7	1.3	1.7	1.9	2.3	2.0	2.0	0.9	0.2	0.8	0.6	0.6	0.6	1.0	1.5	2.3	0.2
19	1.9	3.4	3.9	2.4	3.1	3.4	4.4	4.7	5.0	5.0	4.8	6.4	5.7	5.1	5.3	4.0	2.4	3.1	1.1	0.7	1.1	1.3	1.7	2.3	3.4	6.4	0.7
20	2.4	2.5	2.5	2.1	2.1	2.2	2.6	1.9	2.1	3.3	4.0	2.9	2.9	3.3	2.9	1.9	2.6	3.0	2.5	0.7	0.9	0.5	0.4	0.5	2.2	4.0	0.4
21	1.5	0.6	0.8	0.5	1.2	0.8	0.9	1.0	0.8	0.8	2.1	2.7	2.1	2.5	2.8	1.8	2.0	2.6	1.5	1.3	1.4	1.8	0.9	1.5	1.5	2.8	0.5
22	1.1	1.5	0.6	0.8	0.9	0.5	0.4	1.1	0.8	0.7	2.1	2.7	3.0	2.7	3.3	3.4	3.4	3.6	3.5	4.0	2.7	4.4	4.1	4.1	2.3	4.4	0.4
23	3.7	3.0	3.4	2.3	4.4	4.1	1.0	3.8	5.6	7.2	7.2	7.9	7.9	9.2	7.5	7.1	7.3	4.8	4.0	4.4	3.7	4.5	4.5	4.3	5.1	9.2	1.0
24	5.8	6.9	9.1	5.2	7.1	7.8	6.3	6.0	5.2	6.3	7.0	5.2	4.8	4.8	4.0	2.3	2.5	1.9	1.4	2.1	1.7	1.6	1.4	1.1	4.5	9.1	1.1
25	1.2	0.5	1.1	0.7	2.1	1.0	2.3	2.0	2.8	3.8	3.3	3.1	3.1	2.6	2.7	2.5	2.4	2.5	2.8	1.9	1.5	1.4	2.0	2.0	2.1	3.8	0.5
26	1.1	1.3	1.1	1.1	1.0	1.7	1.0	1.0	0.8	2.3	2.8	2.2	2.8	2.3	2.0	2.5	1.8	1.9	1.7	0.9	0.9	1.0	0.2	0.4	1.5	2.8	0.2
27	1.3	1.0	1.1	1.2	1.6	2.3	6.3	8.0	7.7	6.3	8.3	6.5	5.4	3.5	2.7	2.8	2.4	2.5	2.7	1.2	1.2	2.2	3.3	2.3	3.5	8.3	1.0
28	2.2	2.2	2.3	2.3	1.9	1.6	1.9	1.8	2.2	3.5	4.5	2.2	1.4	1.4	2.2	2.4	2.8	3.0	2.7	0.1	0.8	0.5	0.4	0.4	1.9	4.5	0.1
29	0.4	0.4	0.7	0.9	1.3	0.5	0.9	1.1	1.0	1.4	2.7	2.6	1.6	2.1	1.7	2.2	1.5	2.8	2.0	0.7	0.2	0.7	0.4	0.1	1.2	2.8	0.1
30	0.1	0.6	0.3	0.6	0.9	0.5	0.6	0.5	1.4	2.3	2.4	3.8	3.6	3.8	4.2	3.2	1.3	1.5	2.0	2.6	1.3	2.0	1.5	1.7	1.8	4.2	0.1
31	0.8	0.7	0.0	1.3	0.6	0.1	2.5	1.4	1.0	1.1	3.8	3.1	2.4	2.3	1.3	1.6	1.8	1.6	2.1	1.6	1.7	2.5	2.3	2.7	1.7	3.8	0.0
Avg	2.0	2.2	2.3	2.2	2.4	2.6	2.7	2.8	3.1	3.5	4.1	4.0	3.6	3.4	3.3	2.9	2.6	2.4	2.2	2.0	1.8	2.0	1.9	1.9	2.7	--	--
Max	5.8	8.3	9.1	7.0	7.1	8.8	6.3	8.0	7.7	7.3	8.9	8.4	7.9	9.2	7.5	7.1	7.3	4.8	4.8	5.2	5.9	4.5	4.5	4.3	--	9.2	--
Min	0.1	0.4	0.0	0.3	0.3	0.1	0.2	0.2	0.3	0.6	0.7	1.3	1.4	1.4	1.3	1.3	0.8	0.7	0.2	0.1	0.2	0.5	0.1	0.1	--	--	0.0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Oct 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	187	189	175	168	200	153	150	137	100	117	114	255	228	238	229	228	254	256	277	274	278	274	235	307	214	307	100
2	322	278	197	50	48	44	41	38	39	43	40	50	42	43	43	48	43	39	281	172	107	43	51	62	43	322	38
3	69	96	84	67	93	112	109	80	63	53	55	48	48	55	47	43	37	38	76	111	78	96	57	80	70	112	37
4	119	106	93	106	113	118	123	97	58	55	54	59	40	233	246	263	244	262	226	276	294	287	284	285	119	294	40
5	281	262	232	170	184	152	164	171	112	260	246	248	244	249	249	248	254	256	275	274	303	68	74	179	230	303	68
6	198	194	190	185	202	172	191	154	140	60	330	270	257	259	268	279	274	277	276	266	125	192	219	217	222	330	60
7	185	331	184	168	173	181	174	132	151	127	121	278	274	267	261	265	264	270	295	253	261	257	273	74	226	331	74
8	195	266	161	125	114	94	80	57	59	62	92	81	78	67	52	54	56	56	58	74	194	115	123	233	90	266	52
9	251	169	215	189	222	213	213	210	273	266	256	262	267	273	249	257	263	265	222	358	278	143	126	168	235	358	126
10	174	144	184	133	163	192	166	125	123	274	267	265	268	254	251	239	241	275	275	273	269	15	209	167	220	275	15
11	189	156	143	136	121	104	108	126	77	59	62	126	231	258	238	250	259	265	275	277	190	244	155	178	177	277	59
12	191	187	162	178	163	156	192	132	160	230	232	231	253	244	259	216	255	231	348	57	288	290	46	47	211	348	46
13	48	51	43	38	40	38	40	47	48	46	60	59	57	40	36	34	48	33	189	143	99	103	109	80	58	189	33
14	74	122	103	59	69	81	56	66	59	55	58	47	74	52	50	46	36	39	61	79	102	105	80	74	68	122	36
15	65	75	87	78	76	72	73	74	78	73	117	119	130	179	201	241	226	263	313	174	141	165	147	127	118	313	65
16	141	163	85	46	144	179	164	155	105	84	137	167	237	266	239	253	215	196	251	330	341	230	162	190	181	341	46
17	172	184	152	172	173	161	166	167	190	227	259	88	65	63	47	78	98	31	241	160	115	99	172	144	144	259	31
18	136	129	143	164	183	160	123	106	73	54	48	107	127	125	142	230	267	269	282	181	190	187	203	261	157	282	48
19	151	126	95	79	62	63	58	59	56	47	50	44	40	40	37	280	156	112	106	76	96	67	69	68	73	280	37
20	71	69	63	59	53	54	51	56	58	57	49	59	78	103	49	35	49	43	55	57	63	72	93	91	62	103	35
21	97	83	70	67	75	65	59	56	54	47	52	48	84	129	141	81	43	56	43	128	152	130	144	122	83	152	43
22	143	158	106	80	68	82	54	59	59	56	80	87	145	159	182	264	298	231	262	176	190	184	171	173	133	298	54
23	176	168	164	166	163	149	139	127	80	62	50	67	114	148	157	257	224	235	271	161	154	125	120	121	147	271	50
24	104	126	125	137	137	106	101	82	70	62	50	97	120	152	157	163	139	234	285	37	186	171	204	161	128	285	37
25	170	157	168	170	181	187	186	159	113	75	74	103	106	146	213	229	262	221	214	239	162	198	203	175	174	262	74
26	138	85	58	54	62	196	185	166	116	110	186	265	232	208	215	190	195	213	200	226	240	156	228	282	186	282	54
27	255	250	234	134	156	204	153	154	108	131	254	225	236	274	246	227	237	128	139	291	110	185	184	175	196	291	108
28	161	158	191	168	157	164	162	159	98	84	174	283	285	240	290	242	258	262	269	261	167	161	162	142	193	290	84
29	178	189	194	187	171	152	132	124	111	73	54	42	42	33	55	46	43	49	145	185	139	127	131	108	114	194	33
30	116	145	141	138	100	95	90	90	68	57	48	102	125	110	130	148	90	58	90	97	93	92	99	100	101	148	48
31	88	92	91	77	70	66	72	73	54	82	94	112	123	110	104	108	104	95	109	114	123	152	153	201	101	201	54
Avg	150	147	140	123	128	129	123	110	87	69	72	82	119	174	204	242	250	272	260	187	157	145	149	144	131	--	--
Max	322	331	234	189	222	213	213	210	273	274	330	283	285	274	290	280	298	277	348	358	341	290	284	307	--	358	--
Min	48	51	43	38	40	38	40	38	39	43	40	42	40	33	36	34	36	31	43	37	63	15	46	47	--	--	15

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Nov 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	105	117	80	165	157	241	205	196	202	186	211	202	206	197	224	212	221	213	233	231	229	226	228	222	202	241	80
2	225	228	221	225	245	276	229	258	235	222	220	222	162	206	172	237	178	244	261	283	309	141	349	297	234	349	141
3	295	196	187	133	129	138	134	129	62	48	52	17	307	238	252	233	238	264	278	274	283	308	332	177	238	332	17
4	121	40	39	41	47	41	46	46	36	40	39	42	42	41	37	42	36	44	51	56	53	55	69	54	48	121	36
5	50	57	73	59	51	53	46	56	53	53	54	54	56	64	59	40	39	68	84	54	92	101	80	78	61	101	39
6	58	56	60	73	71	76	67	50	53	53	53	77	96	108	109	108	102	78	82	81	72	61	63	56	73	109	50
7	53	69	50	57	61	61	86	76	64	60	53	47	55	99	72	243	268	272	274	241	246	238	163	197	68	274	47
8	169	129	163	123	98	111	104	112	61	54	55	54	75	96	73	63	50	62	71	79	80	69	91	73	86	169	50
9	65	77	60	52	51	49	49	48	48	53	50	47	61	117	137	147	229	237	232	240	237	170	177	178	93	240	47
10	166	97	212	138	69	160	116	81	101	202	207	213	223	207	212	209	171	207	219	220	223	218	225	227	188	227	69
11	224	230	230	224	205	201	96	95	127	194	204	227	234	232	217	216	209	215	222	225	219	230	234	238	213	238	95
12	240	105	67	95	213	144	162	205	189	204	216	230	222	236	202	219	220	201	113	172	172	143	176	170	185	240	67
13	193	182	223	165	163	122	98	109	121	111	277	202	193	200	210	217	184	190	236	216	233	210	39	220	187	277	39
14	190	168	170	181	159	164	150	120	110	111	163	215	219	217	223	206	196	187	188	255	269	269	277	270	194	277	110
15	267	265	284	290	161	146	130	156	146	214	254	228	254	218	226	202	214	202	221	220	227	207	209	214	216	290	130
16	217	226	156	124	94	239	284	288	281	311	42	47	49	41	42	47	72	74	76	70	56	51	44	42	51	311	41
17	45	42	42	78	55	46	47	45	53	55	55	50	49	43	37	39	45	69	87	79	74	112	64	52	56	112	37
18	110	98	61	62	47	48	47	56	55	60	51	50	53	43	40	42	40	61	111	85	74	64	79	93	63	111	40
19	77	86	83	76	74	84	66	64	61	57	54	50	45	79	124	263	249	254	162	170	174	144	168	177	99	263	45
20	178	156	155	156	156	148	153	166	139	117	136	199	250	240	253	240	244	258	273	197	154	161	152	131	180	273	117
21	148	152	152	140	128	101	105	129	129	97	77	58	54	331	318	358	308	265	87	123	164	343	335	160	102	358	54
22	193	197	204	195	166	200	198	170	152	102	119	257	257	261	272	227	186	259	239	291	178	267	320	253	217	320	102
23	266	275	254	268	297	331	54	123	223	257	248	266	230	272	353	6	17	34	30	13	32	96	112	205	307	353	6
24	116	116	98	101	130	121	129	134	80	68	64	335	248	277	273	255	243	254	290	14	43	54	61	55	83	335	14
25	59	63	77	90	91	93	90	94	74	61	55	59	45	137	259	255	263	275	283	271	303	43	163	156	74	303	43
26	98	124	109	97	139	80	117	123	86	44	51	61	57	60	44	46	74	109	117	100	74	57	56	50	82	139	44
27	88	89	52	55	58	51	57	63	55	56	51	46	46	45	44	42	43	45	55	80	80	73	75	81	59	89	42
28	79	65	51	54	54	52	54	55	60	65	61	56	63	129	129	132	225	193	100	159	165	156	158	161	97	225	51
29	158	162	144	137	142	143	148	141	134	95	110	219	231	229	225	222	228	235	153	187	149	146	166	72	165	235	72
30	131	65	137	184	172	163	85	133	114	110	171	213	211	209	211	208	194	216	218	239	240	314	107	119	173	314	65
Avg	136	118	117	115	112	109	100	105	95	84	81	65	97	174	194	217	212	219	174	187	165	125	111	147	122	--	--
Max	295	275	284	290	297	331	284	288	281	311	277	335	307	331	353	358	308	275	290	291	309	343	349	297	--	358	--
Min	45	40	39	41	47	41	46	45	36	40	39	17	42	41	37	6	17	34	30	13	32	43	39	42	--	--	6

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Dec 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	259	188	166	143	148	113	122	137	115	102	65	51	43	49	47	44	53	69	97	72	55	76	77	77	89	259	43
2	62	65	65	57	64	58	55	60	62	61	61	62	65	105	122	171	212	186	219	228	249	63	70	84	83	249	55
3	81	91	83	80	119	124	124	118	91	109	114	127	120	100	189	226	160	61	173	188	148	169	143	207	129	226	61
4	206	262	311	106	155	195	213	221	221	265	277	298	297	303	275	260	294	265	259	266	351	265	269	101	259	351	101
5	139	208	193	174	159	93	110	105	78	70	82	56	64	47	50	50	54	59	61	64	77	70	67	98	86	208	47
6	100	91	74	68	61	66	63	76	63	51	52	69	62	71	65	104	83	88	86	53	54	59	61	73	71	104	51
7	62	113	142	81	54	47	85	129	75	62	49	48	52	50	54	52	60	74	62	59	52	61	85	66	68	142	47
8	62	54	52	57	66	57	61	57	56	55	51	51	47	43	54	58	66	56	50	81	69	60	69	64	58	81	43
9	79	69	66	58	56	59	54	54	54	53	50	47	73	123	150	204	273	285	76	73	71	76	74	84	69	285	47
10	65	48	52	65	67	65	64	59	55	54	49	45	44	40	40	25	306	14	191	296	131	99	109	236	55	306	14
11	155	267	183	114	133	107	120	109	82	86	119	134	131	123	212	233	248	270	112	141	139	165	173	186	148	270	82
12	163	134	131	115	119	122	97	56	104	107	129	135	127	133	189	160	133	201	221	238	231	230	242	266	153	266	56
13	221	228	223	220	214	201	206	226	266	281	288	274	250	260	260	135	208	192	264	286	304	260	77	252	241	304	77
14	232	269	251	70	153	163	167	150	99	80	258	236	236	250	237	264	268	272	284	78	168	141	118	102	199	284	70
15	104	107	115	129	122	122	107	125	79	58	58	49	52	60	58	53	72	88	99	118	113	119	91	113	93	129	49
16	99	103	114	92	117	109	134	143	121	103	98	116	107	130	163	144	263	267	273	256	221	239	239	251	148	273	92
17	296	257	233	220	235	91	126	168	208	225	226	221	221	216	167	325	284	279	101	88	126	118	121	125	196	325	88
18	95	105	117	118	89	74	96	85	81	93	95	253	237	220	247	242	226	63	86	261	155	167	150	178	134	261	63
19	116	104	51	73	99	93	100	114	112	87	62	50	57	60	53	45	17	265	122	142	192	131	118	126	92	265	17
20	136	119	112	127	128	144	126	145	140	87	63	71	236	263	263	237	267	277	294	206	245	250	344	175	176	344	63
21	287	7	229	146	269	113	168	162	345	142	245	243	251	263	249	248	267	274	252	282	292	285	252	274	253	345	7
22	65	282	312	212	242	138	81	225	150	151	230	252	264	252	270	268	269	277	276	270	268	285	280	269	254	312	65
23	276	286	302	321	6	13	94	40	45	55	62	54	49	41	47	41	36	37	43	57	83	75	100	94	42	321	6
24	76	75	54	99	71	54	80	82	80	69	52	56	52	57	44	60	63	80	106	111	122	94	82	80	75	122	44
25	44	93	98	91	204	131	176	166	218	222	209	177	155	151	177	299	205	291	303	301	346	272	245	187	197	346	44
26	185	201	250	297	311	281	263	280	142	232	232	231	237	228	224	237	249	271	277	69	273	221	77	202	242	311	69
27	177	151	180	133	127	101	44	41	45	45	43	48	49	40	34	21	332	261	274	193	160	101	85	147	84	332	21
28	145	152	147	139	142	135	114	137	111	65	48	50	146	242	264	265	270	272	271	105	170	181	151	137	151	272	48
29	163	157	167	151	164	159	165	165	148	118	132	129	190	165	236	212	250	261	265	151	60	187	131	175	169	265	60
30	165	200	195	185	83	72	62	107	158	131	135	209	222	217	213	227	195	217	211	244	195	215	200	178	184	244	62
31	157	151	28	183	153	93	229	204	156	162	178	197	240	254	252	240	240	242	242	240	265	245	241	212	212	265	28
Avg	127	133	130	116	120	102	111	120	101	91	85	87	109	117	197	238	264	278	221	155	145	151	115	148	121	--	--
Max	296	286	312	321	311	281	263	280	345	281	288	298	297	303	275	325	332	291	303	301	351	285	344	274	--	351	--
Min	44	7	28	57	6	13	44	40	45	45	43	45	43	40	34	21	17	14	43	53	52	59	61	64	--	--	6

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Oct 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	0.62	0.80	0.98	0.99	0.95	0.82	0.75	-0.13	-0.62	-0.94	-1.04	-0.84	-1.27	-1.17	-1.10	-0.99	-0.51	-0.10	0.08	0.12	0.21	0.53	0.67	0.28	-0.04	0.99	-1.27
2	0.22	0.29	0.56	0.41	0.36	0.32	0.19	-0.12	-0.42	-0.79	-1.03	-1.44	-1.43	-1.41	-1.26	-1.16	-0.66	0.29	0.56	0.81	0.75	0.62	0.54	0.51	-0.14	0.81	-1.44
3	0.39	0.39	0.41	0.42	0.37	0.47	0.44	-0.11	-0.45	-0.82	-1.13	-1.15	-1.16	-1.13	-1.11	-0.92	-0.43	0.27	0.55	0.75	0.78	0.55	0.56	0.45	-0.07	0.78	-1.16
4	0.57	0.39	0.34	0.38	0.59	0.68	0.67	0.06	-0.49	-0.96	-1.40	-1.48	-1.25	-0.99	-1.04	-0.70	-0.49	0.04	0.19	0.55	0.51	0.58	0.38	0.63	-0.09	0.68	-1.48
5	0.90	0.76	0.84	1.08	1.03	0.96	0.68	0.17	-0.46	-0.38	-0.79	-0.84	-1.14	-0.95	-0.93	-0.76	-0.46	-0.03	0.09	0.14	0.43	0.97	1.00	0.96	0.14	1.08	-1.14
6	1.01	0.82	0.86	0.91	0.96	0.94	1.01	0.17	-0.46	-0.89	-0.68	-0.74	-0.80	-0.61	-0.36	-0.50	-0.17	-0.02	0.05	0.38	0.60	0.77	1.14	0.86	0.22	1.14	-0.89
7	0.83	0.64	0.79	0.67	0.98	0.92	1.09	0.50	0.15	-0.30	-0.50	-0.67	-0.79	-0.82	-0.80	-0.51	-0.30	-0.06	0.07	0.08	0.01	0.09	-0.01	0.24	0.10	1.09	-0.82
8	0.32	0.04	0.19	0.06	0.08	0.08	0.14	0.19	0.12	0.07	-0.07	-0.14	-0.17	-0.17	-0.44	-0.24	-0.10	-0.07	0.01	-0.02	-0.02	-0.06	-0.11	0.01	-0.01	0.32	-0.44
9	-0.05	-0.07	-0.06	-0.05	-0.06	-0.06	-0.07	-0.08	-0.05	-0.12	-0.17	-0.14	-0.27	-0.62	-0.42	-0.45	-0.25	-0.06	0.13	0.22	0.26	0.36	0.36	0.49	-0.05	0.49	-0.62
10	0.51	0.48	0.55	0.42	0.60	0.54	0.63	-0.07	-0.47	-0.38	-0.49	-0.62	-0.72	-0.76	-0.72	-0.62	-0.38	-0.07	0.05	0.19	0.24	0.62	0.83	0.74	0.05	0.83	-0.76
11	0.93	0.97	0.82	0.74	0.48	0.51	0.42	-0.13	-0.60	-1.05	-1.19	-1.17	-0.90	-0.77	-0.86	-0.77	-0.46	-0.03	0.08	0.13	0.47	0.81	0.70	0.71	-0.01	0.97	-1.19
12	0.87	0.83	1.37	0.88	0.77	0.59	0.79	0.10	-0.42	-0.61	-0.74	-0.75	-0.72	-0.79	-0.63	-0.52	-0.29	0.04	0.23	0.43	0.31	0.31	0.48	0.38	0.12	1.37	-0.79
13	0.38	0.37	0.33	0.30	0.28	0.27	0.24	-0.11	-0.39	-0.70	-1.03	-1.17	-1.34	-1.29	-1.30	-1.04	-0.72	0.45	0.72	0.78	0.69	0.37	0.27	0.50	-0.13	0.78	-1.34
14	0.36	0.32	0.37	0.43	0.37	0.40	0.36	-0.12	-0.46	-0.83	-1.10	-1.23	-1.27	-1.19	-0.87	-0.64	-0.33	0.39	0.56	0.64	0.65	0.80	0.84	0.57	-0.04	0.84	-1.27
15	0.58	0.43	0.52	0.45	0.41	0.40	0.35	0.05	-0.25	-0.93	-0.94	-0.92	-1.05	-0.92	-0.72	-0.38	-0.16	0.05	0.29	0.66	0.42	0.61	0.80	0.60	0.02	0.80	-1.05
16	0.39	0.46	0.54	0.50	0.52	0.97	0.62	0.30	-0.59	-1.01	-1.04	-1.20	-1.02	-0.77	-0.96	-0.68	-0.37	0.07	0.18	0.35	0.92	0.81	0.96	0.89	0.03	0.97	-1.20
17	0.72	0.77	0.70	0.88	0.88	0.71	0.74	0.68	0.08	0.06	0.02	0.32	-0.06	-0.68	-1.05	-0.72	-0.29	0.40	0.67	0.59	0.70	0.71	0.70	0.69	0.34	0.88	-1.05
18	0.61	1.03	0.61	0.73	0.98	0.87	0.80	0.14	-0.48	-0.97	-1.19	-1.15	-1.13	-0.93	-0.84	-0.53	-0.10	0.04	0.57	0.68	0.71	0.88	0.88	0.68	0.12	1.03	-1.19
19	1.00	0.59	0.53	0.53	0.37	0.32	0.33	-0.02	-0.44	-0.81	-0.96	-1.27	-1.15	-0.64	-0.04	0.09	0.46	0.12	0.02	0.25	0.41	0.45	0.30	0.26	0.03	1.00	-1.27
20	0.26	0.28	0.28	0.27	0.29	0.27	0.23	-0.12	-0.48	-0.77	-0.94	-1.24	-1.23	-0.97	-0.70	-0.65	-0.37	0.31	0.43	0.45	0.47	0.56	0.44	0.45	-0.10	0.56	-1.24
21	0.40	0.52	0.42	0.38	0.33	0.30	0.26	-0.19	-0.54	-0.83	-1.03	-1.20	-1.22	-0.98	-0.93	-0.64	-0.45	0.12	0.44	0.89	0.80	0.92	0.95	0.55	-0.03	0.95	-1.22
22	1.08	1.15	0.81	0.45	0.46	0.39	0.37	-0.12	-0.64	-1.00	-1.23	-1.20	-1.11	-1.18	-1.03	-0.63	-0.36	0.47	0.26	0.68	0.63	0.67	1.26	0.93	0.05	1.26	-1.23
23	1.17	1.07	0.90	0.74	1.04	0.68	0.57	0.03	-0.51	-0.91	-1.26	-1.28	-1.16	-1.09	-0.84	-0.37	-0.15	0.71	0.74	0.69	0.83	0.78	0.86	0.88	0.17	1.17	-1.28
24	0.81	0.84	0.61	1.03	0.83	0.94	0.86	0.08	-0.44	-0.80	-1.15	-1.22	-1.05	-1.06	-0.89	-0.72	-0.18	0.52	0.24	0.75	0.88	1.12	1.03	0.96	0.17	1.12	-1.22
25	1.06	1.04	1.26	1.36	1.38	1.26	0.91	0.22	-0.44	-0.83	-1.13	-1.15	-1.13	-0.90	-0.53	-0.12	-0.03	0.51	0.46	0.78	0.96	1.24	1.04	0.99	0.34	1.38	-1.15
26	0.80	0.50	0.58	0.45	0.47	0.67	0.62	0.20	-0.47	-0.80	-0.80	-0.61	-1.00	-0.98	-0.83	-0.49	-0.16	0.05	0.16	0.29	0.52	0.60	0.49	0.26	0.02	0.80	-1.00
27	0.29	0.44	0.43	0.73	0.45	0.52	0.53	0.09	-0.48	-0.76	-0.71	-0.98	-0.86	-0.93	-0.83	-0.56	-0.33	0.09	0.17	0.17	0.51	0.70	0.75	0.85	0.01	0.85	-0.98
28	0.71	0.67	0.72	0.73	0.81	1.24	1.45	0.53	-0.61	-0.98	-0.89	-1.00	-0.88	-0.94	-0.80	-0.66	-0.27	0.14	0.13	0.51	0.72	1.05	1.19	1.58	0.21	1.58	-1.00
29	1.25	0.84	0.78	0.83	0.78	0.71	0.53	-0.13	-0.46	-0.78	-1.18	-1.32	-1.31	-1.19	-0.97	-0.89	-0.07	0.80	0.85	1.00	0.96	0.71	0.93	0.64	0.14	1.25	-1.32
30	0.64	0.92	0.54	0.74	0.90	0.87	0.79	0.24	-0.43	-0.90	-1.10	-0.96	-0.98	-0.82	-0.48	-0.23	0.16	0.36	0.59	0.58	0.61	0.78	0.77	0.77	0.18	0.92	-1.10
31	1.08	0.66	0.64	0.68	0.52	0.43	0.33	0.00	-0.26	-0.58	-0.61	-0.84	-0.98	-0.81	-0.66	-0.46	-0.10	0.18	0.20	0.34	0.28	0.40	0.49	0.56	0.06	1.08	-0.98
Avg	0.67	0.62	0.62	0.62	0.62	0.61	0.57	0.07	-0.40	-0.72	-0.89	-0.96	-0.99	-0.92	-0.80	-0.59	-0.27	0.19	0.32	0.48	0.56	0.65	0.69	0.64	0.06	--	--
Max	1.25	1.15	1.37	1.36	1.38	1.26	1.45	0.68	0.15	0.07	0.02	0.32	-0.06	-0.17	-0.04	0.09	0.46	0.80	0.85	1.00	0.96	1.24	1.26	1.58	--	1.58	--
Min	-0.05	-0.07	-0.06	-0.05	-0.06	-0.06	-0.07	-0.19	-0.64	-1.05	-1.40	-1.48	-1.43	-1.41	-1.30	-1.16	-0.72	-0.10	0.01	-0.02	-0.02	-0.06	-0.11	0.01	--	--	-1.48

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Nov 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	0.77	0.63	0.73	0.66	0.81	0.58	0.68	0.49	-0.30	-0.57	-0.90	-0.91	-1.14	-0.88	-0.80	-0.63	-0.27	-0.04	0.08	0.09	0.06	-0.07	-0.09	-0.09	-0.05	0.81	-1.14
2	-0.09	0.18	0.29	0.15	0.00	0.01	0.05	-0.06	-0.18	-0.43	-0.34	-0.30	-0.28	-0.49	-0.64	-0.40	-0.19	0.09	0.08	0.06	0.30	0.63	0.59	0.35	-0.03	0.63	-0.64
3	0.98	0.71	0.73	0.44	0.38	0.33	0.33	-0.21	-0.55	-0.94	-1.34	-1.10	-0.86	-0.84	-0.66	-0.61	-0.22	0.05	0.06	0.08	0.10	0.14	0.59	0.71	-0.07	0.98	-1.34
4	0.93	0.57	0.41	0.32	0.29	0.22	0.22	-0.02	-0.29	-0.51	-0.71	-0.89	-1.04	-0.93	-0.83	-0.53	-0.05	0.40	0.39	0.43	0.41	0.33	0.28	0.35	-0.01	0.93	-1.04
5	0.41	0.40	0.25	0.26	0.26	0.28	0.20	-0.12	-0.38	-0.55	-0.74	-0.87	-0.97	-0.89	-0.99	-0.67	0.07	0.78	0.70	0.68	0.58	0.42	0.38	0.47	0.00	0.78	-0.99
6	0.46	0.32	0.28	0.26	0.32	0.49	0.32	-0.02	-0.44	-0.78	-1.04	-1.02	-0.91	-0.72	-0.63	-0.36	-0.03	0.25	0.46	0.49	0.38	0.34	0.30	0.37	-0.04	0.49	-1.04
7	0.35	0.27	0.29	0.26	0.26	0.24	0.24	-0.08	-0.46	-0.80	-1.14	-1.29	-1.41	-1.10	-1.04	-0.54	-0.08	0.13	0.19	0.47	0.77	1.04	0.93	0.99	-0.06	1.04	-1.41
8	1.32	1.05	1.13	0.86	0.45	0.32	0.31	0.06	-0.25	-0.64	-0.85	-0.98	-0.99	-0.84	-0.83	-0.52	0.00	0.35	0.40	0.38	0.33	0.32	0.30	0.33	0.08	1.32	-0.99
9	0.32	0.25	0.33	0.34	0.28	0.26	0.27	0.00	-0.37	-0.77	-1.06	-1.27	-1.41	-1.13	-0.81	-0.57	-0.20	0.62	1.04	1.16	0.70	0.73	0.69	0.78	0.01	1.16	-1.41
10	0.95	0.60	0.73	0.81	0.84	1.10	1.11	0.41	-0.37	-0.70	-0.98	-0.99	-0.93	-0.89	-0.77	-0.44	-0.11	0.17	0.31	0.22	0.24	0.26	0.28	0.24	0.09	1.11	-0.99
11	0.29	0.27	0.38	0.44	0.64	0.89	0.70	0.35	-0.55	-0.84	-0.98	-0.93	-0.94	-0.92	-0.85	-0.71	-0.27	0.15	0.21	0.17	0.26	0.28	0.43	0.43	-0.04	0.89	-0.98
12	0.38	0.78	0.77	0.48	0.48	0.63	0.58	0.09	-0.32	-0.76	-0.85	-0.72	-1.01	-0.98	-0.91	-0.63	-0.29	0.08	0.36	0.66	0.58	0.54	0.53	0.46	0.04	0.78	-1.01
13	0.74	0.52	0.48	0.59	0.59	0.36	0.45	0.37	-0.47	-0.69	-0.82	-1.31	-1.36	-1.15	-0.86	-0.63	-0.17	0.09	0.20	0.50	0.30	0.61	0.82	0.51	-0.01	0.82	-1.36
14	0.61	0.57	0.56	0.57	0.81	0.94	0.61	0.30	-0.60	-0.74	-0.63	-0.51	-0.41	-0.36	-0.39	-0.19	-0.11	0.08	0.12	0.05	0.03	0.06	0.08	-0.02	0.06	0.94	-0.74
15	-0.02	0.01	0.03	0.19	0.55	0.71	0.44	0.46	-0.46	-0.59	-0.58	-0.94	-0.72	-0.84	-0.71	-0.62	-0.21	0.07	0.21	0.28	0.29	0.39	0.25	0.27	-0.06	0.71	-0.94
16	0.15	0.03	0.08	0.01	-0.09	-0.09	-0.07	-0.09	-0.25	-0.45	-0.88	-1.02	-1.04	-0.90	-0.71	-0.48	-0.08	0.10	0.10	0.12	0.14	0.17	0.15	0.13	-0.21	0.17	-1.04
17	0.14	0.15	0.16	0.11	0.18	0.16	0.17	0.00	-0.40	-0.70	-0.84	-0.90	-0.97	-0.98	-0.93	-0.58	0.05	0.26	0.28	0.28	0.28	0.16	0.26	0.32	-0.14	0.32	-0.98
18	0.19	0.24	0.35	0.28	0.29	0.27	0.27	0.03	-0.32	-0.69	-0.87	-1.00	-1.18	-1.14	-0.92	-0.58	0.12	0.53	0.68	0.70	0.52	0.48	0.50	0.63	-0.03	0.70	-1.18
19	0.46	0.37	0.37	0.34	0.36	0.30	0.32	0.08	-0.26	-0.67	-0.97	-1.17	-1.41	-1.16	-0.72	-0.36	-0.08	0.80	0.49	0.92	0.93	0.75	0.73	0.88	0.05	0.93	-1.41
20	0.97	0.72	0.81	0.73	0.60	1.17	1.34	0.75	-0.42	-0.73	-0.99	-0.83	-0.78	-0.90	-0.71	-0.62	-0.07	0.12	0.34	0.63	0.79	1.03	0.88	0.89	0.24	1.34	-0.99
21	0.88	0.96	1.35	0.89	1.15	1.03	0.61	0.71	0.35	-0.16	-0.41	-0.59	-1.22	-0.95	-0.85	-0.72	0.02	0.20	0.57	0.61	0.93	0.94	0.80	1.06	0.34	1.35	-1.22
22	0.84	0.96	0.90	1.21	0.96	0.86	0.97	0.51	-0.40	-0.76	-0.84	-0.59	-0.68	-0.83	-0.78	-0.44	-0.10	0.09	0.21	0.88	1.00	0.78	0.81	0.43	0.25	1.21	-0.84
23	0.31	0.28	0.25	0.23	0.35	0.46	1.00	0.48	0.07	-0.30	-0.62	-0.61	-1.15	-0.74	-0.75	-0.44	0.04	0.67	0.78	0.43	0.65	0.58	0.75	1.04	0.16	1.04	-1.15
24	0.81	0.73	0.64	0.44	0.32	0.48	0.55	0.23	-0.44	-0.94	-1.13	-1.09	-0.87	-0.48	-0.43	-0.42	-0.09	0.16	0.59	0.76	0.52	0.37	0.31	0.31	0.06	0.81	-1.13
25	0.29	0.23	0.20	0.14	0.13	0.13	0.15	-0.01	-0.42	-0.74	-1.11	-1.28	-1.45	-1.08	-0.74	-0.49	-0.04	0.06	0.09	0.26	0.57	0.75	0.87	0.97	-0.10	0.97	-1.45
26	0.76	0.69	0.60	0.52	0.83	0.58	0.45	0.24	-0.06	-0.36	-0.78	-0.99	-1.13	-1.00	-0.90	-0.50	0.21	0.56	0.79	0.49	0.45	0.48	0.44	0.43	0.12	0.83	-1.13
27	0.34	0.34	0.44	0.41	0.42	0.39	0.32	0.14	-0.21	-0.54	-0.74	-0.86	-0.99	-0.93	-0.74	-0.39	0.18	0.40	0.51	0.49	0.51	0.55	0.46	0.44	0.04	0.55	-0.99
28	0.43	0.44	0.40	0.39	0.41	0.40	0.41	0.18	-0.29	-0.62	-0.92	-1.22	-1.28	-1.06	-0.82	-0.62	0.37	1.06	0.65	0.93	0.93	1.18	0.81	0.79	0.12	1.18	-1.28
29	1.16	0.74	0.92	1.08	0.88	1.00	1.46	1.00	0.04	-0.73	-1.02	-0.89	-1.03	-1.01	-0.92	-0.63	-0.05	0.43	0.98	0.94	0.71	0.75	1.65	0.86	0.35	1.65	-1.03
30	1.23	0.71	0.96	1.35	1.18	1.16	0.63	0.64	0.16	-0.68	-0.97	-0.89	-0.90	-0.94	-0.86	-0.66	-0.10	0.19	0.24	0.30	0.35	0.59	0.86	0.89	0.23	1.35	-0.97
Avg	0.58	0.49	0.53	0.49	0.50	0.52	0.50	0.23	-0.29	-0.65	-0.87	-0.93	-1.01	-0.90	-0.78	-0.53	-0.06	0.30	0.40	0.48	0.49	0.52	0.55	0.54	0.05	--	--
Max	1.32	1.05	1.35	1.35	1.18	1.17	1.46	1.00	0.35	-0.16	-0.34	-0.30	-0.28	-0.36	-0.39	-0.19	0.37	1.06	1.04	1.16	1.00	1.18	1.65	1.06	--	1.65	--
Min	-0.09	0.01	0.03	0.01	-0.09	-0.09	-0.07	-0.21	-0.60	-0.94	-1.34	-1.31	-1.45	-1.16	-1.04	-0.72	-0.29	-0.04	0.06	0.05	0.03	-0.07	-0.09	-0.09	--	--	-1.45

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Dec 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	0.86	0.99	0.93	0.74	0.63	0.56	0.83	0.65	-0.33	-0.67	-1.01	-1.15	-1.03	-0.90	-0.60	-0.31	0.09	0.38	0.62	0.40	0.37	0.28	0.31	0.27	0.12	0.99	-1.15
2	0.28	0.33	0.36	0.39	0.38	0.29	0.21	0.17	0.00	-0.38	-0.63	-0.69	-0.71	-0.39	-0.27	-0.14	0.00	0.09	0.08	-0.02	-0.02	0.12	0.04	-0.10	-0.03	0.39	-0.71
3	-0.12	-0.13	-0.13	-0.13	-0.15	-0.14	-0.11	-0.10	-0.23	-0.49	-0.73	-0.53	-0.58	-0.73	-0.47	-0.03	0.16	0.23	0.39	0.31	0.42	0.44	0.61	0.58	-0.07	0.61	-0.73
4	0.43	0.16	0.04	0.04	0.07	-0.01	-0.04	-0.03	-0.04	-0.07	-0.03	-0.13	-0.43	-0.90	-0.40	-0.17	-0.13	-0.06	-0.03	-0.10	0.07	0.08	0.21	0.19	-0.05	0.43	-0.90
5	0.04	0.05	0.06	0.00	0.09	0.14	0.35	0.57	-0.10	-0.53	-0.63	-0.59	-0.79	-0.80	-0.55	-0.41	0.06	0.27	0.31	0.33	0.29	0.30	0.31	0.45	-0.03	0.57	-0.80
6	0.38	0.60	0.28	0.26	0.26	0.22	0.23	0.20	0.11	-0.08	-0.19	-0.23	-0.14	-0.14	0.05	0.24	0.22	0.18	0.27	0.22	0.29	0.37	0.38	0.35	0.18	0.60	-0.23
7	0.39	0.39	0.47	0.42	0.43	0.40	0.33	0.17	-0.14	-0.49	-0.58	-0.70	-0.78	-0.59	-0.33	-0.13	0.20	0.29	0.35	0.36	0.39	0.33	0.25	0.30	0.07	0.47	-0.78
8	0.31	0.31	0.28	0.23	0.24	0.28	0.28	0.24	-0.11	-0.27	-0.30	-0.78	-0.48	-0.36	-0.15	0.02	0.16	0.33	0.34	0.30	0.32	0.37	0.30	0.36	0.09	0.37	-0.78
9	0.36	0.36	0.34	0.29	0.30	0.33	0.31	0.27	-0.23	-0.57	-0.77	-0.93	-1.03	-0.97	-0.81	-0.63	-0.03	0.19	0.48	0.46	0.46	0.46	0.46	0.45	-0.02	0.48	-1.03
10	0.39	0.34	0.35	0.33	0.31	0.32	0.33	0.21	-0.22	-0.64	-0.86	-1.02	-1.05	-0.97	-0.51	-0.54	0.01	0.47	0.66	0.44	0.60	0.39	0.47	0.89	0.03	0.89	-1.05
11	0.92	0.71	0.72	0.54	0.50	0.32	0.43	0.42	-0.20	-0.63	-0.72	-0.93	-0.96	-0.91	-0.72	-0.59	-0.07	0.36	0.57	0.62	0.68	0.98	0.37	0.59	0.13	0.98	-0.96
12	0.47	0.70	1.03	0.63	0.86	0.84	0.87	0.97	0.43	-0.53	-0.79	-0.99	-1.01	-0.96	-0.63	-0.28	0.09	0.46	0.41	0.31	0.14	0.06	0.00	-0.04	0.13	1.03	-1.01
13	-0.06	-0.03	0.01	0.02	0.02	0.05	-0.04	-0.10	-0.07	-0.11	-0.07	-0.12	-0.27	-0.16	-0.14	-0.14	-0.04	-0.01	-0.02	0.00	0.08	0.13	0.23	0.09	-0.03	0.23	-0.27
14	0.12	0.25	0.18	0.32	0.34	0.42	0.41	0.54	-0.20	-0.35	-0.38	-0.75	-0.95	-0.50	-0.49	-0.18	-0.10	0.02	0.09	0.39	0.56	0.65	0.50	0.45	0.06	0.65	-0.95
15	0.39	0.29	0.26	0.30	0.25	0.23	0.21	0.29	-0.12	-0.47	-0.78	-0.75	-0.48	-0.36	-0.28	-0.21	0.06	0.36	0.55	0.42	0.34	0.50	0.40	0.41	0.07	0.55	-0.78
16	0.63	0.55	0.58	0.56	0.46	0.43	0.38	0.40	0.36	-0.02	-0.40	-0.36	-0.51	-0.82	-0.58	-0.24	-0.06	0.60	0.16	0.56	0.54	0.58	0.10	0.04	0.16	0.63	-0.82
17	0.24	0.33	0.27	0.12	-0.06	-0.08	-0.10	-0.07	-0.06	-0.09	-0.10	-0.17	-0.17	-0.12	-0.11	-0.12	0.24	-0.01	-0.02	0.01	0.04	-0.04	-0.08	-0.08	-0.01	0.33	-0.17
18	-0.08	-0.04	0.01	-0.06	-0.07	-0.06	0.02	0.02	-0.05	-0.20	-0.44	-0.36	-0.20	-0.36	-0.70	-0.55	-0.07	0.04	0.04	0.35	0.43	0.46	0.58	0.64	-0.03	0.64	-0.70
19	0.53	0.22	0.65	0.48	0.26	0.23	0.17	0.10	-0.20	-0.44	-0.81	-0.84	-0.85	-0.84	-0.68	-0.38	0.08	0.15	0.54	0.65	0.69	0.52	0.46	0.46	0.05	0.69	-0.85
20	0.49	0.42	0.37	0.37	0.47	0.40	0.43	0.46	-0.04	-0.53	-0.84	-1.03	-0.70	-0.43	-0.37	-0.43	-0.09	0.09	0.33	0.53	0.77	0.89	0.78	0.75	0.13	0.89	-1.03
21	0.65	0.97	0.94	0.91	0.89	0.98	0.68	0.76	0.69	-0.42	-0.52	-0.70	-0.73	-0.56	-0.65	-0.45	-0.14	0.03	0.16	0.18	0.40	0.34	0.38	0.44	0.22	0.98	-0.73
22	0.47	0.28	0.73	0.77	0.77	0.70	0.42	0.73	-0.01	-0.47	-0.54	-0.69	-0.60	-0.65	-0.50	-0.29	-0.10	0.02	0.05	0.06	0.20	0.12	0.12	0.13	0.07	0.77	-0.69
23	0.16	0.22	0.28	0.58	0.42	0.45	0.65	0.50	-0.04	-0.40	-0.62	-0.79	-0.77	-0.60	-0.53	-0.30	0.12	0.44	0.54	0.42	0.33	0.34	0.26	0.24	0.08	0.65	-0.79
24	0.25	0.22	0.24	0.21	0.26	0.31	0.24	0.22	-0.20	-0.50	-0.74	-1.03	-1.05	-1.05	-0.95	-0.53	0.06	0.23	0.49	0.27	0.58	0.48	0.53	0.42	-0.04	0.58	-1.05
25	0.49	0.55	0.67	0.76	0.64	0.73	0.89	0.71	0.37	-0.13	-0.15	-0.25	-0.26	-0.51	-0.20	-0.14	-0.03	0.05	0.04	0.09	0.18	0.16	0.16	0.14	0.21	0.89	-0.51
26	0.17	0.23	0.20	0.30	0.35	0.41	0.40	0.35	-0.24	-0.47	-0.79	-0.84	-0.85	-0.91	-0.83	-0.63	-0.20	0.07	0.13	0.45	0.94	0.65	0.59	0.86	0.01	0.94	-0.91
27	0.75	0.61	0.55	0.66	0.54	0.43	0.41	0.22	-0.17	-0.57	-0.68	-0.95	-1.13	-1.20	-1.04	-0.80	-0.24	0.17	0.16	0.52	0.85	0.53	0.40	0.50	0.02	0.85	-1.20
28	0.46	0.46	0.45	0.47	0.47	0.47	0.42	0.37	-0.31	-0.70	-0.95	-1.32	-0.97	-0.69	-0.49	-0.23	-0.07	0.00	0.07	0.42	0.66	0.91	0.71	0.52	0.05	0.91	-1.32
29	0.80	0.97	0.67	1.16	1.02	0.79	0.87	1.16	0.21	-0.76	-0.98	-1.09	-0.98	-0.96	-0.83	-0.80	-0.12	0.30	0.65	0.82	0.81	1.07	0.95	0.80	0.27	1.16	-1.09
30	0.66	1.03	0.90	0.86	0.89	0.76	0.71	0.55	0.01	-0.67	-0.90	-0.89	-0.94	-0.75	-0.62	-0.46	-0.11	0.94	1.13	0.96	1.12	1.25	1.26	1.08	0.37	1.26	-0.94
31	0.55	0.63	0.30	0.80	0.51	0.66	1.00	1.17	-0.03	-0.24	-0.13	-0.03	0.03	0.00	-0.02	-0.04	-0.03	-0.06	-0.08	-0.09	-0.07	-0.08	-0.06	-0.05	0.19	1.17	-0.24
Avg	0.40	0.42	0.42	0.43	0.40	0.38	0.39	0.39	-0.04	-0.42	-0.58	-0.70	-0.69	-0.65	-0.50	-0.32	0.00	0.21	0.31	0.34	0.43	0.44	0.39	0.39	0.08	--	--
Max	0.92	1.03	1.03	1.16	1.02	0.98	1.00	1.17	0.69	-0.02	-0.03	-0.03	0.03	0.00	0.05	0.24	0.24	0.94	1.13	0.96	1.12	1.25	1.26	1.08	--	1.26	--
Min	-0.12	-0.13	-0.13	-0.13	-0.15	-0.14	-0.11	-0.10	-0.33	-0.76	-1.01	-1.32	-1.13	-1.20	-1.04	-0.80	-0.24	-0.06	-0.08	-0.10	-0.07	-0.08	-0.08	-0.10	--	--	-1.32

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Oct 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	16.4	16.5	16.1	15.6	15.8	15.1	14.3	16.1	18.8	21.0	22.3	22.6	23.6	24.1	24.3	24.4	23.6	22.6	21.5	21.0	20.7	19.8	19.6	21.0	19.9	24.4	14.3
2	21.2	19.9	16.9	17.7	17.4	16.8	16.4	17.1	17.9	18.9	20.2	22.0	23.2	24.2	25.4	26.1	25.6	24.1	22.6	20.3	19.5	21.1	20.6	19.2	20.6	26.1	16.4
3	18.8	17.7	17.8	18.3	17.5	16.7	16.4	19.1	21.0	22.4	23.7	25.3	26.8	28.2	28.7	28.9	28.2	26.7	25.0	22.8	22.9	22.4	23.5	22.3	22.5	28.9	16.4
4	20.0	19.3	19.0	18.6	18.2	17.7	17.8	20.3	23.1	24.6	26.1	27.7	28.6	29.0	29.2	28.9	28.4	27.1	25.9	24.7	24.6	24.5	24.5	23.9	23.8	29.2	17.7
5	23.2	22.4	21.1	19.1	18.6	17.9	18.1	19.3	22.0	23.0	24.3	25.2	26.4	26.6	26.9	26.7	26.1	25.0	24.0	23.2	22.7	21.3	20.6	20.1	22.7	26.9	17.9
6	19.7	19.5	19.7	19.1	18.4	17.9	17.8	17.9	20.9	24.0	24.4	25.2	25.9	25.8	25.1	25.4	24.9	24.0	23.2	22.1	20.5	20.4	20.2	20.1	21.8	25.9	17.8
7	20.3	19.8	19.9	19.5	19.0	19.2	18.6	18.3	19.3	20.9	22.3	23.9	25.1	25.5	25.8	25.3	24.3	23.1	22.9	22.2	21.3	20.9	20.5	19.8	21.6	25.8	18.3
8	19.6	19.6	18.5	17.6	17.0	16.9	14.5	14.1	14.2	14.4	14.1	14.7	14.9	15.4	16.3	16.2	15.7	15.7	15.4	15.3	15.4	15.3	15.4	15.6	15.9	19.6	14.1
9	15.4	15.5	15.6	15.5	15.1	14.9	14.8	14.7	14.6	14.3	14.5	14.2	14.6	15.5	16.6	17.2	17.1	17.0	16.2	15.6	15.7	14.4	14.4	13.5	15.3	17.2	13.5
10	14.0	13.4	13.5	13.1	12.9	13.4	13.0	14.1	16.3	17.9	18.7	19.6	20.4	21.1	21.4	21.3	21.0	20.3	19.5	19.4	19.5	18.4	17.3	17.3	17.4	21.4	12.9
11	16.9	16.5	16.2	16.1	15.8	15.3	15.3	16.4	19.4	21.3	22.5	23.5	24.0	24.2	24.4	24.4	24.0	22.8	22.0	21.4	19.2	18.4	17.9	17.8	19.8	24.4	15.3
12	17.4	17.5	16.9	16.9	16.5	16.3	16.0	16.7	19.2	20.3	21.1	21.9	22.4	23.0	23.0	23.3	23.1	22.6	21.8	21.2	21.4	21.5	19.0	17.5	19.8	23.3	16.0
13	17.1	16.7	16.6	16.6	16.0	15.4	15.0	15.5	16.3	17.3	18.9	20.3	21.6	22.4	23.1	23.3	23.0	20.9	19.6	18.1	17.3	17.3	17.1	17.8	18.5	23.3	15.0
14	17.6	16.2	16.4	17.0	16.6	15.8	16.2	16.8	17.9	19.7	21.7	22.8	24.2	24.6	24.7	25.1	24.7	22.9	21.6	20.7	19.4	19.2	19.0	19.2	20.0	25.1	15.8
15	18.6	18.1	17.9	17.6	17.3	17.4	17.0	17.5	19.0	22.1	23.7	24.5	26.0	26.5	26.2	25.6	24.5	23.6	22.9	21.4	20.9	20.4	20.2	20.1	21.2	26.5	17.0
16	20.1	19.3	19.6	19.4	19.0	17.8	17.8	17.9	20.8	23.5	24.4	25.3	25.3	25.3	25.7	25.2	24.3	23.0	21.9	21.2	20.0	18.7	18.0	18.2	21.3	25.7	17.8
17	18.1	17.9	17.3	17.4	16.9	16.5	16.3	15.8	17.6	18.8	19.0	18.4	19.7	21.6	23.9	24.2	23.6	21.7	20.5	18.2	18.2	19.2	19.2	17.0	19.0	24.2	15.8
18	16.9	16.7	16.0	15.9	15.2	14.7	15.8	17.7	20.0	21.6	23.1	24.9	26.1	26.3	26.4	25.5	23.8	22.8	22.0	20.7	20.4	19.9	20.1	21.0	20.6	26.4	14.7
19	18.6	18.4	18.0	17.8	18.0	17.7	17.4	18.0	19.4	21.0	22.4	23.6	24.0	22.8	21.5	19.8	15.7	13.8	13.0	13.1	13.7	14.1	14.0	13.8	17.9	24.0	13.0
20	13.3	13.2	13.4	13.2	13.2	13.2	13.3	14.2	16.0	18.0	19.2	21.0	22.0	22.5	22.3	22.8	22.2	20.4	19.2	18.6	18.2	17.6	16.6	15.8	17.5	22.8	13.2
21	15.1	15.0	15.6	15.4	15.1	14.5	14.4	15.4	17.2	18.8	19.8	21.0	22.1	22.4	22.9	22.6	22.2	20.9	20.0	18.9	18.2	17.9	17.8	17.1	18.3	22.9	14.4
22	16.9	16.2	16.1	16.8	16.5	16.2	16.4	17.1	19.1	20.6	22.0	22.9	23.7	24.3	24.6	24.5	24.1	22.6	21.9	20.0	19.1	18.2	18.0	17.7	19.8	24.6	16.1
23	16.9	16.6	16.7	16.2	15.9	15.5	15.0	16.5	19.7	21.6	23.3	24.4	25.3	25.7	25.9	25.4	25.0	23.6	22.6	20.2	19.6	19.6	19.9	19.7	20.5	25.9	15.0
24	19.7	18.5	17.4	16.6	16.8	17.4	17.3	19.0	20.9	22.5	24.4	25.9	26.4	27.1	27.2	27.1	26.4	25.0	24.4	22.6	20.8	20.3	20.6	19.9	21.8	27.2	16.6
25	20.1	19.0	18.4	18.1	18.3	16.9	16.9	17.9	21.3	23.9	26.2	27.1	27.4	27.6	27.3	26.8	26.9	25.7	25.2	24.4	22.4	23.1	22.9	22.2	22.8	27.6	16.9
26	21.2	20.3	20.2	19.4	19.0	18.5	17.7	18.2	20.2	22.0	23.0	22.9	24.0	24.4	24.4	23.6	22.5	21.8	20.9	20.2	19.5	18.9	19.0	18.9	20.9	24.4	17.7
27	18.3	17.5	16.7	15.8	16.2	16.2	15.3	16.0	18.2	19.7	20.0	21.0	21.0	21.4	21.7	21.2	20.8	19.8	19.2	18.7	17.0	16.0	15.4	15.2	18.3	21.7	15.2
28	15.3	14.7	15.0	14.7	14.3	14.0	13.5	14.5	17.0	19.5	20.2	21.1	21.5	22.2	22.5	22.7	22.0	20.5	19.6	18.5	17.2	16.6	15.8	16.4	17.9	22.7	13.5
29	15.4	15.0	14.6	14.2	14.3	14.0	13.5	15.0	18.1	20.2	21.8	23.4	24.1	24.4	24.6	24.7	23.9	22.4	21.1	19.8	19.1	19.2	18.8	18.5	19.2	24.7	13.5
30	17.6	17.2	16.5	15.9	17.2	17.0	16.7	17.5	19.6	21.7	23.3	24.8	25.4	25.7	25.4	25.0	24.1	22.4	21.3	20.0	19.8	19.6	18.9	18.3	20.5	25.7	15.9
31	17.6	17.1	17.5	17.3	17.8	17.5	17.1	17.6	19.3	21.3	22.6	23.9	24.7	24.8	25.1	25.3	24.5	23.1	22.4	21.7	21.5	21.1	20.7	20.7	20.9	25.3	17.1
Avg	18.0	17.5	17.1	16.9	16.6	16.3	16.0	16.8	18.9	20.5	21.7	22.7	23.6	24.0	24.3	24.1	23.4	22.2	21.3	20.2	19.5	19.2	18.9	18.6	19.9	--	--
Max	23.2	22.4	21.1	19.5	19.0	19.2	18.6	20.3	23.1	24.6	26.2	27.7	28.6	29.0	29.2	28.9	28.4	27.1	25.9	24.7	24.6	24.5	24.5	23.9	--	29.2	--
Min	13.3	13.2	13.4	13.1	12.9	13.2	13.0	14.1	14.2	14.3	14.1	14.2	14.6	15.4	16.3	16.2	15.7	13.8	13.0	13.1	13.7	14.1	14.0	13.5	--	--	12.9

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Nov 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	19.3	18.8	18.2	17.8	17.7	17.6	16.7	16.9	18.3	19.2	19.9	20.1	21.5	21.1	20.4	19.9	19.0	17.9	17.1	16.7	16.3	16.0	15.3	15.2	18.2	21.5	15.2
2	14.2	12.8	12.5	12.3	11.6	11.5	12.0	11.8	12.3	13.0	12.5	12.6	12.6	13.2	14.1	13.5	13.0	12.1	11.4	10.8	10.0	8.8	9.0	9.1	11.9	14.2	8.8
3	8.1	7.5	6.6	6.5	6.4	6.0	5.9	7.1	10.4	12.0	13.3	13.7	13.9	14.3	14.2	14.2	13.5	12.6	11.9	11.6	11.5	11.7	10.7	9.2	10.5	14.3	5.9
4	9.1	10.0	9.9	9.7	9.0	9.2	9.0	9.6	10.4	11.6	13.1	14.9	16.4	17.2	17.6	17.6	16.9	15.6	14.8	14.2	13.7	12.7	12.1	11.6	12.7	17.6	9.0
5	11.8	10.6	11.1	11.2	9.9	9.6	9.2	9.7	11.3	13.2	14.7	16.2	17.9	18.9	19.8	20.1	19.5	18.0	16.4	15.6	15.3	14.4	13.9	13.1	14.2	20.1	9.2
6	13.3	13.3	12.8	11.9	11.3	11.1	10.5	11.3	13.1	14.8	16.7	18.5	19.1	20.0	20.9	20.8	20.0	17.7	15.9	15.7	14.8	14.0	13.6	13.2	15.2	20.9	10.5
7	13.1	12.3	12.1	11.4	11.4	11.3	10.9	11.6	13.3	14.6	16.3	18.4	19.9	21.0	21.9	21.5	20.5	19.4	18.1	16.6	16.7	16.2	15.6	15.1	15.8	21.9	10.9
8	14.6	13.7	13.1	13.3	15.0	14.5	14.7	15.7	17.3	18.7	19.8	21.1	22.0	22.6	22.8	22.4	21.2	19.2	17.7	16.8	16.2	15.9	15.4	14.7	17.4	22.8	13.1
9	14.3	14.0	13.9	13.8	13.8	13.6	13.4	14.0	15.2	16.6	17.8	19.7	21.2	21.8	22.0	22.2	21.7	20.3	19.2	17.9	16.9	15.9	15.8	15.6	17.1	22.2	13.4
10	15.3	14.6	14.5	14.0	13.2	12.9	12.2	13.4	15.6	17.3	18.3	19.3	20.1	20.6	20.9	20.6	20.1	19.5	19.1	18.9	18.3	18.0	17.6	17.0	17.1	20.9	12.2
11	16.3	15.7	15.2	15.0	14.4	13.6	12.4	12.6	15.1	17.1	17.8	18.5	19.1	19.6	20.0	20.0	19.3	18.3	18.1	17.8	17.5	17.2	16.8	16.5	16.8	20.0	12.4
12	16.2	14.8	14.0	13.9	14.8	13.3	13.4	14.7	15.1	16.0	16.5	16.6	17.6	17.9	17.9	17.8	17.2	16.3	15.7	14.2	14.1	13.5	13.3	13.2	15.3	17.9	13.2
13	12.7	12.8	12.9	12.6	12.7	12.3	12.1	12.5	14.0	15.3	16.4	17.6	18.4	18.6	18.7	18.9	17.6	16.3	15.7	15.3	15.5	14.5	13.6	12.9	15.0	18.9	12.1
14	11.8	11.6	11.3	10.8	10.6	9.8	9.3	10.0	12.5	14.2	15.5	15.8	15.8	15.7	15.8	15.3	14.9	14.2	13.7	13.0	13.0	12.8	12.7	12.8	13.0	15.8	9.3
15	12.6	12.1	11.8	11.5	10.1	9.2	9.0	9.0	11.2	13.3	13.6	14.7	14.7	15.8	16.2	16.0	15.2	14.3	14.0	13.9	13.7	13.4	13.1	12.8	13.0	16.2	9.0
16	12.4	11.5	10.6	10.3	10.1	10.1	10.1	9.6	9.8	11.1	11.3	11.5	11.5	11.4	11.3	10.9	9.8	8.4	7.4	6.7	6.4	6.1	5.6	5.2	9.6	12.4	5.2
17	4.9	4.8	4.6	3.9	3.6	4.2	4.0	4.1	5.2	6.6	8.3	9.6	10.6	11.7	12.4	12.2	11.2	9.6	8.5	8.8	8.5	7.7	6.9	6.9	7.5	12.4	3.6
18	6.5	6.2	6.0	5.8	6.0	5.8	5.9	6.5	7.9	9.0	10.0	11.6	13.0	14.1	14.3	14.3	13.1	11.4	9.6	9.1	9.4	9.8	9.5	8.7	9.3	14.3	5.8
19	8.8	8.7	9.0	8.8	8.4	7.9	7.6	7.6	9.0	10.1	11.9	13.8	15.7	16.7	16.5	16.2	15.5	13.6	12.5	11.1	10.8	10.0	10.2	9.6	11.2	16.7	7.6
20	9.9	9.5	9.0	9.2	8.5	7.4	7.5	6.2	9.1	12.3	14.5	15.4	15.6	16.1	16.0	16.0	14.8	13.6	12.6	11.0	10.7	9.9	10.1	9.7	11.4	16.1	6.2
21	9.2	9.3	9.2	8.6	9.0	8.8	9.1	8.9	8.9	9.7	11.4	12.2	14.1	15.0	15.4	15.3	13.9	12.8	10.8	10.4	11.0	10.3	10.4	7.9	10.9	15.4	7.9
22	8.2	7.8	7.2	6.9	6.5	6.4	6.4	7.1	10.2	13.2	14.1	13.5	14.1	14.9	15.2	14.5	13.4	12.3	11.7	10.8	10.0	10.0	10.5	11.0	10.7	15.2	6.4
23	11.0	10.6	10.4	10.0	9.3	9.1	8.2	7.9	9.7	10.7	11.4	11.9	13.1	13.5	14.2	13.8	12.8	11.3	10.4	10.4	9.0	7.2	5.7	6.6	10.3	14.2	5.7
24	6.9	6.4	5.0	4.3	5.7	5.5	5.4	6.3	8.0	9.7	10.8	11.9	12.0	11.4	11.3	11.9	11.4	10.2	9.3	9.6	9.0	8.1	7.4	7.0	8.5	12.0	4.3
25	6.1	5.6	5.2	4.7	4.1	3.8	3.7	4.1	5.6	7.5	9.5	11.0	12.4	13.1	13.1	13.0	12.0	10.6	9.6	9.0	8.9	8.2	7.7	7.2	8.2	13.1	3.7
26	7.7	7.4	7.1	7.6	6.8	7.5	8.1	9.3	12.8	15.3	16.2	17.7	19.5	20.4	21.2	21.0	19.9	18.7	17.8	17.2	15.9	15.6	15.9	15.7	14.3	21.2	6.8
27	14.8	14.9	15.2	15.1	14.8	14.7	13.6	13.0	14.4	16.1	17.5	18.7	19.7	20.1	20.7	20.4	19.1	17.6	16.9	16.1	15.6	15.4	15.3	14.8	16.4	20.7	13.0
28	14.3	14.3	14.3	13.8	13.9	13.6	13.2	13.4	14.5	15.7	17.5	19.2	20.7	21.7	21.9	21.8	20.7	19.0	17.3	16.3	15.3	14.4	14.9	14.8	16.5	21.9	13.2
29	13.8	14.4	13.1	12.6	11.4	11.0	11.5	11.1	13.7	16.2	18.3	19.2	19.9	20.4	20.3	19.9	18.9	17.6	15.7	14.7	14.3	13.8	14.0	13.1	15.4	20.4	11.0
30	13.1	12.3	12.1	12.8	12.6	11.8	11.2	11.4	12.3	14.7	16.5	16.9	17.5	17.9	18.2	18.1	17.0	16.1	15.5	14.9	14.3	13.1	11.8	11.1	14.3	18.2	11.1
Avg	11.7	11.3	10.9	10.7	10.4	10.1	9.9	10.2	11.9	13.5	14.7	15.7	16.7	17.2	17.5	17.3	16.4	15.2	14.2	13.5	13.1	12.5	12.1	11.7	13.3	--	--
Max	19.3	18.8	18.2	17.8	17.7	17.6	16.7	16.9	18.3	19.2	19.9	21.1	22.0	22.6	22.8	22.4	21.7	20.3	19.2	18.9	18.3	18.0	17.6	17.0	--	22.8	--
Min	4.9	4.8	4.6	3.9	3.6	3.8	3.7	4.1	5.2	6.6	8.3	9.6	10.6	11.4	11.3	10.9	9.8	8.4	7.4	6.7	6.4	6.1	5.6	5.2	--	--	3.6

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Dec 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	12.1	10.6	9.2	8.6	8.4	8.4	7.9	8.2	11.5	14.2	15.7	16.3	16.3	16.5	16.7	16.7	15.7	14.3	13.2	13.3	13.9	13.6	13.1	13.1	12.8	16.7	7.9
2	13.4	13.0	12.7	12.6	11.9	12.2	12.4	12.1	12.4	13.5	14.8	15.8	16.6	17.1	17.0	17.1	16.6	16.0	15.6	14.4	12.8	11.2	10.2	9.9	13.8	17.1	9.9
3	9.3	9.1	9.1	9.4	9.8	9.9	10.2	10.5	11.5	13.7	16.0	16.5	16.9	17.8	18.4	17.3	16.3	15.8	15.1	15.3	14.9	14.7	14.7	14.3	13.6	18.4	9.1
4	15.4	13.0	12.0	12.2	12.6	12.1	11.7	11.6	11.4	11.0	10.5	10.2	11.0	12.0	12.4	11.4	11.4	11.1	10.9	10.9	10.7	10.3	10.0	9.3	11.5	15.4	9.3
5	8.9	8.3	8.2	8.8	9.0	8.6	8.2	8.3	10.0	11.3	11.8	12.2	12.9	13.6	13.9	14.0	13.2	12.0	11.6	11.4	11.3	11.0	11.0	10.5	10.8	14.0	8.2
6	10.2	10.5	10.5	10.8	10.6	10.7	10.7	10.8	11.1	11.5	12.3	13.1	12.7	13.2	13.2	13.5	13.3	12.4	12.4	12.0	11.7	11.3	11.2	11.1	11.7	13.5	10.2
7	10.9	10.4	10.0	10.5	11.3	12.1	10.9	9.5	11.8	13.4	14.4	15.3	16.5	17.0	16.9	16.7	15.7	14.6	14.4	14.2	14.2	13.6	12.1	12.1	13.3	17.0	9.5
8	12.2	12.4	12.3	12.0	11.6	11.4	11.2	11.3	12.5	13.5	14.2	15.7	16.2	16.6	16.5	16.1	15.5	14.8	14.9	14.5	14.2	14.1	13.9	13.8	13.8	16.6	11.2
9	13.2	13.1	13.2	13.3	13.2	12.6	12.3	12.3	13.6	15.7	16.7	17.7	19.1	19.7	19.8	19.4	17.4	16.2	15.0	14.6	14.4	14.1	14.0	13.8	15.2	19.8	12.3
10	13.1	13.1	12.8	12.7	12.5	12.3	12.0	12.2	13.3	14.6	15.9	17.0	17.9	18.5	18.3	18.5	17.4	16.3	14.7	14.6	13.0	13.4	13.8	13.3	14.6	18.5	12.0
11	12.6	12.1	11.3	10.1	10.1	9.9	10.0	9.9	12.2	14.5	15.6	16.7	17.1	17.4	17.6	17.5	16.3	15.0	13.1	12.2	12.3	12.8	13.2	12.8	13.4	17.6	9.9
12	12.4	12.2	12.0	12.0	11.9	11.7	11.9	11.3	11.9	13.9	15.9	17.0	17.7	17.9	17.9	17.2	16.6	16.1	16.1	15.2	14.3	12.8	11.9	11.5	14.1	17.9	11.3
13	11.1	10.4	10.2	10.1	10.0	9.8	9.4	7.6	6.2	5.8	6.3	6.2	6.4	6.3	6.5	7.1	7.4	7.0	6.5	6.0	5.4	5.5	5.4	5.6	7.4	11.1	5.4
14	5.4	4.9	4.4	3.4	3.0	2.5	2.4	2.3	3.5	4.8	5.9	6.9	7.8	7.4	7.7	7.1	6.7	6.1	5.7	4.5	3.8	3.7	3.8	3.8	4.9	7.8	2.3
15	3.6	3.7	3.5	3.2	3.1	2.9	3.1	3.8	5.9	7.0	8.6	9.7	10.0	10.4	10.6	11.0	10.3	9.2	8.4	8.0	8.2	8.4	8.4	7.5	7.0	11.0	2.9
16	8.1	7.4	7.1	7.7	7.3	7.3	6.9	7.3	7.4	8.9	10.7	11.7	12.1	13.8	13.5	12.8	11.2	10.2	9.5	8.8	8.9	8.9	8.3	7.5	9.3	13.8	6.9
17	7.2	7.3	6.9	5.8	4.8	4.9	5.0	5.1	5.1	5.1	5.2	5.5	5.8	6.0	5.9	5.9	5.7	5.7	5.5	5.3	5.2	5.3	5.2	5.2	5.6	7.3	4.8
18	5.0	4.9	4.7	4.5	4.5	4.5	4.6	4.5	4.9	5.7	7.0	7.5	7.1	7.3	8.2	7.8	6.3	5.7	5.8	5.5	4.6	4.2	3.7	3.1	5.5	8.2	3.1
19	3.5	3.8	3.5	3.1	2.7	2.5	2.3	2.6	3.6	5.6	7.2	8.1	9.3	10.1	10.2	10.1	9.4	7.9	6.5	6.2	5.7	5.2	5.6	5.4	5.8	10.2	2.3
20	5.5	4.9	5.6	5.4	4.6	3.3	3.5	3.2	4.4	7.5	9.4	11.0	11.3	10.1	10.1	10.7	9.9	8.6	8.2	7.3	7.3	7.0	6.7	6.7	7.2	11.3	3.2
21	7.3	6.3	6.3	4.8	5.2	4.7	4.4	4.2	4.8	7.0	8.9	9.8	10.2	10.1	10.5	10.2	9.3	8.3	7.7	7.4	7.1	7.1	6.8	7.0	7.3	10.5	4.2
22	6.6	7.1	5.9	5.9	5.7	4.8	4.6	4.8	5.9	8.1	9.0	9.5	9.9	10.4	10.2	10.1	9.5	8.6	8.1	8.0	8.1	9.2	9.1	8.2	7.8	10.4	4.6
23	8.4	9.1	9.7	9.9	10.1	9.0	6.4	6.6	7.3	7.8	8.1	8.6	9.3	9.4	9.8	9.7	8.9	7.8	7.0	6.5	6.0	5.6	5.2	4.6	7.9	10.1	4.6
24	4.6	4.4	3.9	3.4	3.3	3.9	3.4	3.5	4.4	5.5	7.1	9.2	10.2	10.8	11.2	10.8	9.4	7.8	7.1	6.5	7.3	7.6	7.4	7.4	6.7	11.2	3.3
25	7.5	6.9	7.2	6.8	8.1	6.8	7.6	7.9	8.8	9.3	9.2	9.5	8.9	8.8	7.7	7.3	7.0	6.2	5.8	5.0	4.5	3.8	3.4	2.7	6.9	9.5	2.7
26	1.8	1.0	0.3	-0.1	-0.5	0.1	0.1	0.1	0.9	2.3	2.7	3.3	4.0	4.7	4.5	4.2	3.5	2.6	2.2	1.3	0.7	0.4	-0.3	-0.1	1.7	4.7	-0.5
27	-1.0	-0.9	-0.8	-1.3	-1.6	-1.0	0.6	0.6	1.1	2.3	3.2	4.5	5.7	6.7	7.0	7.0	6.2	4.9	4.5	2.7	2.0	1.5	2.2	1.0	2.4	7.0	-1.6
28	0.6	0.2	-0.1	-0.3	-0.6	-1.0	-0.9	-1.3	1.0	4.0	5.3	6.9	7.6	8.2	8.0	7.1	6.2	5.7	5.2	4.5	3.4	3.1	2.8	2.9	3.3	8.2	-1.3
29	2.8	2.0	2.5	0.9	0.7	0.6	0.7	0.9	1.6	4.7	7.6	8.6	9.0	9.6	10.3	10.4	9.1	7.3	5.9	4.7	5.6	5.3	5.0	5.2	5.0	10.4	0.6
30	5.5	5.5	5.7	5.5	4.5	4.4	3.8	4.1	5.8	8.3	10.3	12.2	12.3	12.3	12.0	11.7	10.9	9.2	8.9	8.3	7.4	7.4	6.5	6.7	7.9	12.3	3.8
31	6.4	7.0	7.1	7.1	7.1	6.9	6.3	3.6	3.2	5.0	6.6	3.3	0.4	-0.1	-0.1	-0.2	-0.1	-0.3	-0.4	-0.5	-0.7	-1.0	-1.9	-2.3	2.6	7.1	-2.3
Avg	7.9	7.5	7.3	7.1	6.9	6.7	6.6	6.4	7.4	8.9	10.1	10.8	11.2	11.6	11.7	11.5	10.7	9.8	9.2	8.7	8.3	8.1	7.8	7.5	8.7	--	--
Max	15.4	13.1	13.2	13.3	13.2	12.6	12.4	12.3	13.6	15.7	16.7	17.7	19.1	19.7	19.8	19.4	17.4	16.3	16.1	15.3	14.9	14.7	14.7	14.3	--	19.8	--
Min	-1.0	-0.9	-0.8	-1.3	-1.6	-1.0	-0.9	-1.3	0.9	2.3	2.7	3.3	0.4	-0.1	-0.1	-0.2	-0.1	-0.3	-0.4	-0.5	-0.7	-1.0	-1.9	-2.3	--	--	-2.3

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Oct 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	39	253	480	674	807	878	878	813	681	499	281	64	0	0	0	0	0	0	264	878	0
2	0	0	0	0	0	0	39	259	492	690	834	906	908	838	704	514	289	62	0	0	0	0	0	0	272	908	0
3	0	0	0	0	0	0	38	260	493	671	826	896	894	830	693	506	281	60	0	0	0	0	0	0	269	896	0
4	0	0	0	0	0	0	37	254	484	678	812	875	869	806	673	492	273	53	0	0	0	0	0	0	263	875	0
5	0	0	0	0	0	0	34	245	471	667	806	869	869	803	671	486	267	50	0	0	0	0	0	0	260	869	0
6	0	0	0	0	0	0	22	205	413	594	582	666	859	590	402	389	172	49	0	0	0	0	0	0	206	859	0
7	0	0	0	0	0	0	7	71	184	249	342	754	761	679	584	314	213	28	0	0	0	0	0	0	174	761	0
8	0	0	0	0	0	0	2	14	77	46	50	89	115	174	360	151	42	22	0	0	0	0	0	0	48	360	0
9	0	0	0	0	0	0	5	30	34	132	215	141	327	425	366	319	150	53	0	0	0	0	0	0	92	425	0
10	0	0	0	0	0	0	40	237	382	617	763	823	825	736	610	398	230	34	0	0	0	0	0	0	237	825	0
11	0	0	0	0	0	0	28	184	431	614	745	813	814	763	708	509	236	40	1	0	0	0	0	0	245	814	0
12	0	0	0	0	0	0	22	209	428	618	754	822	820	756	619	443	224	31	0	0	0	0	0	0	239	822	0
13	0	0	0	0	0	0	26	232	461	653	785	850	847	777	633	446	226	27	0	0	0	0	0	0	248	850	0
14	0	0	0	0	0	0	25	227	453	642	778	842	837	768	633	448	226	27	0	0	0	0	0	0	246	842	0
15	0	0	0	0	0	0	16	160	342	629	746	759	790	559	447	290	164	25	0	0	0	0	0	0	205	790	0
16	0	0	0	0	0	0	18	203	427	615	747	819	821	746	607	426	212	25	0	0	0	0	0	0	236	821	0
17	0	0	0	0	0	0	1	36	180	147	126	39	231	515	594	413	182	26	0	0	0	0	0	0	104	594	0
18	0	0	0	0	0	0	18	199	419	605	738	808	808	679	549	319	110	19	0	0	0	0	0	0	220	808	0
19	0	0	0	0	0	0	5	128	359	582	612	806	591	354	89	24	1	1	0	0	0	0	0	0	148	806	0
20	0	0	0	0	0	0	16	189	406	591	723	784	780	696	378	399	187	16	0	0	0	0	0	0	215	784	0
21	0	0	0	0	0	0	15	187	403	586	718	777	760	680	533	299	173	28	0	0	0	0	0	0	215	777	0
22	0	0	0	0	0	0	14	186	402	585	715	781	776	709	573	390	176	14	0	0	0	0	0	0	222	781	0
23	0	0	0	0	0	0	14	187	406	589	719	779	776	705	544	277	145	12	0	0	0	0	0	0	215	779	0
24	0	0	0	0	0	0	13	183	400	584	714	780	774	703	566	382	159	8	0	0	0	0	0	0	219	780	0
25	0	0	0	0	0	0	10	171	386	568	694	755	745	571	361	155	155	8	0	0	0	0	0	0	191	755	0
26	0	0	0	0	0	0	9	143	350	557	682	750	742	664	541	286	115	10	0	0	0	0	0	0	202	750	0
27	0	0	0	0	0	0	1	138	340	572	702	764	700	694	551	369	147	6	0	0	0	0	0	0	208	764	0
28	0	0	0	0	0	0	8	169	387	569	700	761	753	686	551	368	146	5	0	0	0	0	0	0	213	761	0
29	0	0	0	0	0	0	8	169	388	573	703	764	755	678	543	363	142	4	0	0	0	0	0	0	212	764	0
30	0	0	0	0	0	0	7	167	386	571	703	776	763	629	362	233	109	14	0	0	0	0	0	0	197	776	0
31	0	0	0	0	0	0	4	146	320	528	616	769	716	640	515	349	138	7	0	0	0	0	0	0	198	769	0
Avg	0	0	0	0	0	0	17	176	374	548	660	732	739	667	537	363	180	27	0	0	0	0	0	0	209	--	--
Max	0	0	0	0	0	0	40	260	493	690	834	906	908	838	708	514	289	64	1	0	0	0	0	0	--	908	--
Min	0	0	0	0	0	0	1	14	34	46	50	39	115	174	89	24	1	1	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Nov 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	1	41	372	438	679	595	748	594	522	344	133	9	0	0	0	0	0	0	187	748	0
2	0	0	1	0	0	0	1	62	165	265	210	192	178	384	534	289	142	6	0	0	0	0	0	0	101	534	0
3	0	0	0	0	0	0	2	157	377	561	690	754	747	671	534	352	133	5	0	0	0	0	0	0	208	754	0
4	0	0	0	0	0	0	4	153	372	557	688	751	741	637	536	349	132	4	0	0	0	0	0	0	205	751	0
5	0	0	0	0	0	0	3	153	375	561	689	755	745	671	531	347	129	3	0	0	0	0	0	0	207	755	0
6	0	0	0	0	0	0	3	149	367	550	676	744	735	661	526	343	125	3	0	0	0	0	0	0	203	744	0
7	0	0	0	0	0	0	2	144	361	544	674	739	733	656	517	338	123	3	0	0	0	0	0	0	201	739	0
8	0	0	0	0	0	0	2	141	354	536	664	726	719	648	513	332	117	3	0	0	0	0	0	0	198	726	0
9	0	0	0	0	0	0	1	132	345	525	653	716	706	638	504	322	107	2	0	0	0	0	0	0	194	716	0
10	0	0	0	0	0	0	1	126	338	524	654	716	704	630	523	303	103	2	0	0	0	0	0	0	193	716	0
11	0	0	0	0	0	0	0	120	330	513	640	702	698	629	495	316	105	3	0	0	0	0	0	0	190	702	0
12	0	0	0	0	0	0	1	17	241	499	579	582	689	623	488	313	104	2	0	0	0	0	0	0	172	689	0
13	0	0	0	0	0	0	2	68	285	359	484	733	665	605	400	295	83	3	0	0	0	0	0	0	166	733	0
14	0	0	0	0	0	0	1	102	321	422	314	309	259	264	244	107	73	2	0	0	0	0	0	0	101	422	0
15	0	0	0	0	0	0	0	102	308	484	513	637	531	561	454	327	104	2	0	0	0	0	0	0	168	637	0
16	0	0	0	0	0	0	0	17	281	482	613	714	721	658	519	330	104	1	0	0	0	0	0	0	185	721	0
17	0	0	0	0	0	0	0	117	336	535	648	701	701	617	507	321	99	1	0	0	0	0	0	0	191	701	0
18	0	0	0	0	0	0	0	112	328	516	649	714	711	638	502	320	93	1	0	0	0	0	0	0	191	714	0
19	0	0	0	0	0	0	0	96	250	455	632	668	691	550	338	258	93	1	0	0	0	0	0	0	168	691	0
20	0	0	0	0	0	0	0	96	304	483	611	673	675	603	475	299	81	2	0	0	0	0	0	0	179	675	0
21	0	0	0	0	0	0	0	9	82	157	258	271	595	566	461	257	54	2	0	0	0	0	0	0	113	595	0
22	0	0	0	0	0	0	0	88	294	477	607	668	672	602	478	231	66	1	0	0	0	0	0	0	174	672	0
23	0	0	0	0	0	0	0	81	241	443	601	650	663	610	467	291	84	1	0	0	0	0	0	0	172	663	0
24	0	0	0	0	0	0	0	87	301	487	620	683	683	617	486	303	80	1	0	0	0	0	0	0	181	683	0
25	0	0	0	0	0	0	0	89	300	483	612	674	669	599	469	294	78	1	0	0	0	0	0	0	178	674	0
26	0	0	0	0	0	0	0	80	281	464	591	656	655	592	462	288	74	1	0	0	0	0	0	0	173	656	0
27	0	0	0	0	0	0	0	79	286	469	600	667	666	600	471	295	78	1	0	0	0	0	0	0	176	667	0
28	0	0	0	0	0	0	0	77	281	464	595	660	658	593	460	287	72	0	0	0	0	0	0	0	173	660	0
29	0	0	0	0	0	0	0	71	272	452	584	650	653	587	460	286	79	1	0	0	0	0	0	0	171	653	0
30	0	0	0	0	0	0	0	44	197	438	581	610	546	561	455	283	78	1	0	0	0	0	0	0	158	610	0
Avg	0	0	0	0	0	0	1	94	298	471	587	644	652	596	478	301	98	2	0	0	0	0	0	0	176	--	--
Max	0	0	1	0	0	0	4	157	377	561	690	755	748	671	536	352	142	9	0	0	0	0	0	0	--	755	--
Min	0	0	0	0	0	0	0	9	82	157	210	192	178	264	244	107	54	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Dec 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	72	258	413	506	476	486	481	329	200	71	1	0	0	0	0	0	0	137	506	0
2	0	0	0	0	0	0	0	19	114	288	378	363	302	244	144	80	23	0	0	0	0	0	0	0	82	378	0
3	0	0	0	0	0	0	0	7	120	240	378	249	290	302	161	87	29	1	0	0	0	0	0	0	78	378	0
4	0	0	0	0	0	0	0	2	10	31	34	168	252	321	258	98	34	1	0	0	0	0	0	0	50	321	0
5	0	0	0	0	0	0	0	32	204	405	504	322	483	423	322	250	72	1	0	0	0	0	0	0	126	504	0
6	0	0	0	0	0	0	0	13	63	146	196	183	139	154	53	26	56	0	0	0	0	0	0	0	43	196	0
7	0	0	0	0	0	0	0	52	245	425	561	634	616	448	310	206	54	1	0	0	0	0	0	0	148	634	0
8	0	0	0	0	0	0	0	43	202	319	306	608	412	367	205	107	33	1	0	0	0	0	0	0	108	608	0
9	0	0	0	0	0	0	0	18	271	436	551	633	622	557	434	270	78	1	0	0	0	0	0	0	161	633	0
10	0	0	0	0	0	0	0	38	217	398	532	600	605	539	294	248	86	2	0	0	0	0	0	0	148	605	0
11	0	0	0	0	0	0	0	39	227	400	504	586	610	557	431	267	85	1	0	0	0	0	0	0	154	610	0
12	0	0	0	0	0	0	0	11	146	385	531	623	616	554	274	147	49	1	0	0	0	0	0	0	139	623	0
13	0	0	0	1	0	0	0	4	23	92	153	143	250	112	72	57	51	3	0	0	0	0	0	0	40	250	0
14	0	0	0	0	0	0	0	31	263	216	474	587	697	327	239	107	81	2	0	0	0	0	0	0	126	697	0
15	0	0	0	0	0	0	0	45	181	368	521	504	310	252	235	214	84	2	0	0	0	0	0	0	113	521	0
16	0	0	0	0	0	0	0	6	63	161	342	318	367	577	344	206	93	2	0	0	0	0	0	0	103	577	0
17	0	0	0	0	0	0	0	4	16	29	42	125	120	93	77	93	33	1	0	0	0	0	0	0	26	125	0
18	0	0	0	0	0	0	0	7	70	137	283	325	196	278	491	299	25	4	0	0	0	0	0	0	88	491	0
19	0	0	0	0	0	0	0	38	223	391	533	621	633	578	449	261	82	3	0	0	0	0	0	0	159	633	0
20	0	0	0	0	0	0	0	15	186	399	537	614	606	454	372	260	100	2	0	0	0	0	0	0	148	614	0
21	0	0	0	0	0	0	0	9	78	368	532	589	622	530	444	250	93	4	0	0	0	0	0	0	147	622	0
22	0	0	0	0	0	0	0	20	190	381	520	601	615	563	452	289	100	2	0	0	0	0	0	0	156	615	0
23	0	0	0	0	0	0	0	32	214	405	545	626	640	592	479	310	110	2	0	0	0	0	0	0	165	640	0
24	0	0	0	0	0	0	0	35	220	409	551	631	644	593	474	230	76	2	0	0	0	0	0	0	161	644	0
25	0	0	0	0	0	0	0	30	133	229	212	275	239	407	126	98	47	3	0	0	0	0	0	0	75	407	0
26	0	0	0	0	0	0	0	30	211	403	546	627	643	590	476	309	112	2	0	0	0	0	0	0	165	643	0
27	0	0	0	0	0	0	0	30	211	401	547	630	644	591	477	310	113	2	0	0	0	0	0	0	165	644	0
28	0	0	0	0	0	0	0	30	209	383	508	592	630	580	351	180	50	3	0	0	0	0	0	0	146	630	0
29	0	0	0	0	0	0	0	29	213	407	555	638	648	601	489	320	119	2	0	0	0	0	0	0	168	648	0
30	0	0	0	0	0	0	0	28	207	397	542	631	648	601	489	317	113	2	0	0	0	0	0	0	166	648	0
31	0	0	0	0	0	0	0	7	141	127	99	24	53	54	41	29	14	1	1	2	2	2	2	1	25	141	0
Avg	0	0	0	0	0	0	0	25	165	309	420	469	472	430	316	198	70	2	0	0	0	0	0	0	120	--	--
Max	0	0	0	1	0	0	0	72	271	436	561	638	697	601	491	320	119	4	1	2	2	2	2	1	--	697	--
Min	0	0	0	0	0	0	0	2	10	29	34	24	53	54	41	26	14	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, RH_Percent"
Month: Oct 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	34	34	34	32	36	38	33	30	26	23	21	22	22	20	20	21	23	25	27	28	30	31	28	28	38	20
2	26	29	38	38	33	31	29	27	25	24	23	21	19	18	14	11	11	12	16	20	22	12	10	12	22	38	10
3	13	16	15	14	16	18	19	15	14	15	15	15	13	12	11	10	10	10	10	13	13	14	13	15	14	19	10
4	19	20	20	21	21	23	22	20	17	17	16	14	12	12	12	11	11	13	15	18	18	15	15	16	17	23	11
5	18	20	24	29	30	32	31	29	25	21	20	21	19	16	14	15	16	17	18	21	22	23	24	22	22	32	14
6	23	25	26	29	31	32	32	33	29	23	19	19	20	20	21	20	20	22	26	28	32	31	28	26	26	33	19
7	23	24	24	25	26	25	26	29	31	30	27	21	19	18	17	19	24	26	28	31	34	35	37	42	27	42	17
8	41	42	52	59	63	60	81	85	83	83	94	94	94	93	89	88	90	90	94	95	96	97	97	95	81	97	41
9	96	97	97	98	99	99	99	100	100	100	100	100	99	98	82	77	77	76	82	88	87	94	95	96	93	100	76
10	97	97	98	97	97	97	95	85	78	67	64	63	62	62	61	60	59	59	65	66	59	64	65	65	74	98	59
11	64	65	69	72	74	78	77	73	64	58	53	48	42	42	47	43	42	48	52	54	64	68	70	70	60	78	42
12	71	69	73	73	73	73	74	67	57	55	52	46	41	36	36	30	31	27	26	29	27	26	27	18	47	74	18
13	16	15	14	14	16	18	19	20	21	22	21	20	17	16	15	14	16	21	25	28	30	26	23	20	20	30	14
14	20	23	22	20	21	22	22	22	22	23	21	20	19	20	18	17	17	18	18	20	23	24	25	24	21	25	17
15	25	26	26	26	26	26	27	27	27	24	19	18	18	21	22	23	26	29	31	36	38	39	39	39	27	39	18
16	38	41	41	43	44	48	47	46	37	33	32	28	24	22	25	23	23	26	34	38	42	44	44	41	36	48	22
17	39	39	37	36	36	37	38	45	42	40	36	45	38	37	31	28	28	33	37	44	45	39	38	45	38	45	28
18	45	44	48	47	49	51	45	39	34	32	30	25	20	18	19	22	28	33	36	38	36	36	34	31	35	51	18
19	38	42	42	43	46	49	51	51	48	45	42	39	38	41	44	47	71	86	89	86	74	68	68	69	55	89	38
20	71	71	70	71	71	72	71	67	62	58	53	49	45	40	43	32	39	49	52	50	47	51	54	54	56	72	32
21	58	60	57	59	62	68	70	65	59	55	52	50	45	42	41	41	43	46	48	52	53	53	53	55	54	70	41
22	56	58	59	56	58	60	59	56	54	52	47	40	34	32	30	27	27	32	37	43	48	47	44	45	46	60	27
23	47	52	54	58	56	57	60	54	45	42	39	36	30	27	25	23	25	30	33	41	44	43	41	42	42	60	23
24	41	44	48	51	49	47	48	42	39	38	35	30	26	22	21	21	21	26	29	35	39	41	40	42	36	51	21
25	40	45	46	46	45	50	49	46	37	33	28	27	25	26	26	28	27	30	32	34	39	37	37	39	36	50	25
26	43	46	47	50	52	53	56	53	46	43	40	42	41	40	35	37	41	41	48	52	55	58	58	60	47	60	35
27	61	64	67	71	69	68	71	64	53	46	47	45	45	41	41	41	42	43	42	42	48	52	54	55	53	71	41
28	54	56	55	56	58	59	59	53	47	39	34	32	32	31	28	27	29	35	37	40	44	45	46	44	43	59	27
29	46	46	47	48	47	48	49	43	36	32	31	28	25	25	24	22	17	14	17	19	21	22	24	26	32	49	14
30	31	34	34	33	30	31	32	30	28	26	25	19	15	15	14	16	19	26	27	28	28	26	27	28	26	34	14
31	29	30	30	30	29	29	30	30	29	28	28	27	27	28	29	29	32	35	37	38	39	40	42	41	32	42	27
Avg	43	44	46	47	47	48	49	47	43	40	38	36	33	32	31	30	32	35	38	40	42	42	42	42	40	--	--
Max	97	97	98	98	99	99	99	100	100	100	100	100	99	98	89	88	90	90	94	95	96	97	97	96	--	100	--
Min	13	15	14	14	16	18	19	15	14	15	15	14	12	12	11	10	10	10	10	13	13	12	10	12	--	--	10

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, RH_Percent"
Month: Nov 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	45	47	50	50	49	49	53	52	45	42	37	37	32	36	43	42	48	54	56	54	56	61	63	63	49	63	32
2	69	79	72	67	63	61	71	69	69	68	61	61	61	55	43	44	41	41	41	42	46	53	51	45	57	79	41
3	49	51	55	56	58	61	63	58	46	40	35	27	28	32	32	30	31	33	34	34	34	31	35	40	41	63	27
4	39	31	31	32	35	34	35	33	32	31	29	26	24	22	21	20	21	23	25	25	24	25	26	27	28	39	20
5	27	30	31	33	37	41	47	43	36	31	27	27	23	20	18	16	15	16	19	25	26	30	33	34	29	47	15
6	32	39	42	46	48	46	51	52	46	40	36	25	21	16	18	21	23	27	31	32	36	42	40	40	35	52	16
7	39	42	44	46	46	46	48	44	40	37	35	30	26	21	19	19	21	25	27	31	31	32	32	31	34	48	19
8	32	37	39	39	29	26	24	21	20	19	18	17	18	17	20	20	21	25	28	29	30	33	35	38	26	39	17
9	39	40	40	41	40	41	42	40	38	36	33	30	26	21	19	18	19	22	23	26	29	30	31	32	32	42	18
10	33	35	36	37	40	41	43	37	32	25	23	21	20	19	18	17	19	18	18	19	24	26	28	34	28	43	17
11	36	39	39	41	46	54	57	54	47	42	38	36	32	29	29	28	35	39	38	36	35	35	36	38	39	57	28
12	41	44	47	51	48	56	61	64	61	56	52	49	43	41	40	38	39	44	48	52	52	55	56	56	50	64	38
13	58	58	59	60	59	62	63	60	53	52	50	49	44	42	43	36	42	47	51	54	52	56	58	63	53	63	36
14	65	63	65	68	68	74	75	67	53	51	54	59	59	59	60	56	63	67	68	72	65	61	61	63	63	75	51
15	69	75	77	77	82	84	85	81	70	58	57	57	56	50	44	46	48	50	53	52	52	55	56	58	62	85	44
16	63	75	84	86	90	88	86	91	87	63	36	31	19	15	14	13	13	13	14	15	14	14	16	16	44	91	13
17	17	18	18	20	20	18	18	18	18	18	17	17	17	15	16	16	16	20	22	22	22	20	19	18	18	22	15
18	17	17	18	19	20	20	20	19	17	16	15	17	17	16	15	16	16	17	19	18	17	18	19	20	18	20	15
19	21	23	22	22	23	24	25	24	23	22	20	18	16	12	11	10	12	15	17	19	18	20	19	20	19	25	10
20	19	19	20	19	20	23	24	27	23	18	14	14	12	11	12	11	12	14	16	20	20	21	19	18	18	27	11
21	17	15	18	19	19	20	20	22	25	28	26	26	22	21	22	23	24	25	30	30	29	32	32	36	24	36	15
22	34	35	36	37	38	39	39	35	29	24	24	26	25	26	24	24	28	32	33	35	36	35	33	31	32	39	24
23	31	33	33	35	37	38	41	40	36	34	34	33	31	27	13	5	5	6	7	6	6	9	10	9	23	41	5
24	9	10	12	13	12	11	11	10	10	11	10	9	8	8	9	9	11	14	16	13	10	9	11	11	11	16	8
25	14	15	17	18	20	20	20	19	18	16	14	11	9	8	8	9	9	9	10	11	12	13	14	15	14	20	8
26	15	15	15	15	16	15	16	17	17	17	17	17	16	14	13	13	14	15	16	16	18	18	18	18	16	18	13
27	19	18	18	17	17	17	19	19	18	17	16	15	14	13	13	13	14	15	15	16	17	18	19	20	16	20	13
28	21	21	21	22	22	22	23	23	22	21	19	17	15	11	10	10	11	13	15	16	18	19	18	19	18	23	10
29	20	20	22	23	25	26	25	25	21	19	16	15	13	12	12	13	14	17	19	21	22	23	22	23	20	26	12
30	23	25	25	27	25	26	28	26	24	22	20	19	18	17	15	17	21	23	23	22	22	25	28	29	23	29	15
Avg	34	36	37	38	38	39	41	40	36	32	29	28	25	24	22	22	24	26	28	29	29	31	31	32	31	--	--
Max	69	79	84	86	90	88	86	91	87	68	61	61	61	59	60	56	63	67	68	72	65	61	63	63	--	91	--
Min	9	10	12	13	12	11	11	10	10	11	10	9	8	8	8	5	5	6	7	6	6	9	10	9	--	--	5

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, RH_Percent"
Month: Dec 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	33	36	38	39	40	42	41	32	28	27	25	25	24	23	22	22	23	24	25	24	24	25	25	29	42	22
2	24	25	25	24	25	24	22	23	23	22	21	20	19	16	16	15	15	17	16	22	36	50	63	69	26	69	15
3	76	78	77	76	76	77	76	74	72	66	58	58	58	56	53	61	69	72	75	72	73	72	70	72	69	78	53
4	65	85	93	96	94	95	96	97	97	98	98	98	92	82	80	90	91	94	95	95	93	95	96	96	92	98	65
5	97	97	98	98	95	93	93	90	82	74	72	71	70	67	61	59	61	66	68	69	68	70	70	72	78	98	59
6	74	74	76	74	74	72	70	68	65	62	58	57	58	56	56	53	55	59	58	59	60	61	61	61	63	76	53
7	62	64	66	63	57	52	58	66	55	50	47	44	41	39	38	39	42	46	46	46	46	48	56	56	51	66	38
8	56	55	55	56	58	58	57	55	51	48	46	43	42	40	38	38	40	42	42	43	45	45	47	48	48	58	38
9	50	50	49	48	48	49	50	49	45	41	40	39	36	33	32	35	43	49	52	51	52	53	54	55	46	55	32
10	58	58	61	63	64	65	66	65	61	57	54	51	49	46	46	45	51	53	59	63	69	62	59	62	58	69	45
11	65	69	74	73	71	72	71	70	61	53	43	33	32	34	34	35	41	48	54	56	53	51	48	49	54	74	32
12	50	49	47	46	46	44	42	40	37	36	36	37	38	38	39	41	42	42	42	48	50	59	67	74	45	74	36
13	85	93	93	92	92	91	94	96	97	95	85	89	90	93	93	91	80	77	81	79	82	82	82	81	88	97	77
14	81	82	85	91	94	95	95	95	86	81	66	68	61	62	64	69	72	76	76	83	87	82	79	77	79	95	61
15	78	79	81	84	84	85	82	74	62	58	54	48	46	46	42	40	42	39	37	38	37	41	46	53	57	85	37
16	51	55	58	56	58	56	58	56	57	53	48	44	44	38	39	42	64	66	69	69	59	54	66	72	55	72	38
17	73	65	72	83	95	96	96	96	95	96	97	97	97	92	92	90	84	86	91	93	94	95	96	96	90	97	65
18	97	97	97	97	97	97	97	96	93	92	82	76	77	77	65	67	79	86	85	86	89	92	92	92	88	97	65
19	90	87	85	82	82	82	81	78	72	64	59	56	50	45	43	44	47	64	70	64	66	70	67	65	67	90	43
20	65	68	62	62	65	72	69	69	62	50	47	42	41	49	49	48	50	58	57	63	63	65	65	61	58	72	41
21	61	61	60	65	66	66	66	67	64	56	48	48	46	51	48	49	58	64	65	66	67	64	65	66	60	67	46
22	68	68	72	72	73	78	77	78	68	59	58	58	57	57	57	59	64	70	72	72	71	68	68	71	67	78	57
23	71	68	61	58	51	48	64	43	31	29	29	26	24	19	16	15	15	21	23	23	23	24	25	26	35	71	15
24	25	25	26	27	27	23	24	23	22	22	20	18	18	18	19	21	24	28	30	32	28	26	26	26	24	32	18
25	25	27	27	28	25	28	26	25	23	22	24	23	26	29	35	39	38	43	45	49	51	46	42	41	33	51	22
26	43	42	40	41	43	37	34	32	32	27	29	29	28	27	27	28	30	34	37	42	45	46	49	46	36	49	27
27	49	48	48	51	53	50	41	41	40	37	37	35	31	28	25	24	27	33	32	38	39	37	33	37	38	53	24
28	38	39	41	41	41	43	42	44	36	29	28	25	21	20	22	27	30	31	33	36	40	40	40	36	34	44	20
29	33	34	29	37	36	36	36	37	36	30	20	17	17	19	14	18	25	31	35	38	33	24	27	22	29	38	14
30	23	25	27	26	28	28	30	29	25	22	21	17	16	14	13	13	14	18	19	21	24	25	27	28	22	30	13
31	28	28	28	27	27	29	31	40	43	44	63	89	96	96	96	96	96	96	96	96	96	96	96	96	68	96	27
Avg	58	59	60	60	61	61	61	60	56	52	49	48	47	45	44	46	49	53	54	56	57	57	58	59	54	--	--
Max	97	97	98	98	97	97	97	97	97	98	98	98	97	96	96	96	96	96	96	96	96	96	96	96	--	98	--
Min	23	25	25	24	25	23	22	23	22	22	20	17	16	14	13	13	14	17	16	21	23	24	25	22	--	--	13

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Oct 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	0.064	0.016	0	0.063	0.232	0.08	0.056	0.024	0	0	0.004	0	0.06	0.261	0.441	0.024	0	0.004	1.33	0.441	0
9	0.004	0.028	0.071	0.154	0.044	0.02	0	0.024	0.02	0.008	0.004	0.016	0.071	0	0	0	0	0	0	0	0	0	0	0	0.464	0.154	0
10	0	0	0	0	0	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004	0.004	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	0.434	0.147	0.142	0.004	0	0	0	0	0.727	0.434	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	0.004	0.028	0.071	0.154	0.044	0.024	0.064	0.04	0.02	0.071	0.236	0.096	0.127	0.024	0	0	0.438	0.147	0.202	0.265	0.441	0.024	0	0.004	2.52	--	--
Max	0.004	0.028	0.071	0.154	0.044	0.02	0.064	0.024	0.02	0.063	0.232	0.08	0.071	0.024	0	0	0.434	0.147	0.142	0.261	0.441	0.024	0	0.004	--	0.441	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Nov 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	0.012	0.024	0.016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.052	0.024	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.012	0.024	0.016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.052	--	--
Max	0.012	0.024	0.016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	0.024	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Dec 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	0.008	0	0	0	0	0	0	0	0	0.008	0.008	0
4	0.004	0.091	0.172	0.012	0.024	0.126	0.222	0.134	0.248	0.288	0.205	0.024	0	0.004	0	0	0	0	0	0	0	0	0	0	1.55	0.288	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	0.008	0.047	0.028	0	0	0.072	0.13	0.268	0.244	0.056	0.028	0.044	0.004	0	0	0	0	0	0.004	0.02	0.004	0	0	0	0.957	0.268	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	0.032	0.048	0	0.024	0.048	0.044	0.004	0.012	0	0	0.004	0	0	0	0.004	0.004	0.024	0.004	0.016	0.004	0.004	0.276	0.048	0
18	0	0	0	0	0	0	0	0	0	0	0	0.004	0	0	0	0.004	0.004	0	0	0	0	0	0	0	0.012	0.004	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004	0	0	0	0	0	0	0	0	0	0	0.004	0.004	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	0.134	0.048	0.1	0.092	0.064	0.048	0.024	0.056	0.032	0.072	0.064	0.052	0.056	0.842	0.134	0
Total	0.012	0.138	0.2	0.044	0.072	0.198	0.376	0.45	0.536	0.348	0.245	0.206	0.052	0.112	0.092	0.076	0.052	0.028	0.064	0.076	0.08	0.08	0.056	0.06	3.65	--	--
Max	0.008	0.091	0.172	0.032	0.048	0.126	0.222	0.268	0.248	0.288	0.205	0.134	0.048	0.1	0.092	0.064	0.048	0.024	0.056	0.032	0.072	0.064	0.052	0.056	--	0.288	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Oct 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	650	650	650	649	650	650	650	651	651	651	651	651	651	650	650	650	650	651	651	651	651	652	652	652	651	652	649
2	652	652	652	652	653	654	654	654	655	656	656	655	655	655	654	654	654	654	654	655	655	655	655	655	654	656	652
3	655	655	655	655	656	656	656	656	657	657	657	656	656	656	655	655	655	655	655	655	656	656	656	656	656	657	655
4	656	656	655	655	655	655	655	656	656	656	656	656	655	655	654	654	654	654	654	654	654	654	654	654	655	656	654
5	654	654	654	654	654	654	654	654	655	655	655	654	654	653	653	653	653	653	653	653	653	654	654	653	654	655	653
6	653	653	653	653	653	653	653	654	654	655	654	654	654	654	653	653	653	653	653	653	654	654	654	653	654	655	653
7	654	654	654	654	653	654	654	654	655	655	655	655	654	654	653	653	653	653	653	653	653	653	653	653	654	655	653
8	653	653	653	653	652	652	652	653	653	653	653	653	652	651	651	651	651	650	650	651	651	651	651	651	652	653	650
9	651	651	650	650	651	651	651	651	652	652	652	652	652	652	652	652	652	652	652	653	653	653	653	653	652	653	650
10	653	653	653	653	653	653	654	654	654	655	655	654	654	654	654	653	654	654	654	654	654	654	654	654	654	655	653
11	654	654	654	654	654	654	654	655	655	655	655	655	654	654	653	653	653	653	653	653	653	653	653	653	654	655	653
12	652	652	652	652	652	652	652	652	653	653	652	652	652	651	651	651	651	651	651	651	652	652	652	652	652	653	651
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15	654	654	653	653	653	653	654	654	654	655	655	654	654	653	653	653	653	653	653	653	653	653	653	653	654	655	653
16	653	653	653	653	653	653	654	654	654	654	654	654	653	653	653	652	652	653	653	653	653	653	653	653	653	654	652
17	652	652	652	652	652	652	653	653	654	654	654	654	653	652	652	652	652	652	652	652	652	653	653	652	653	654	652
18	652	652	652	651	652	652	652	652	652	652	652	652	651	651	651	650	650	650	650	651	651	651	651	650	651	652	650
19	650	650	650	650	650	651	651	651	652	652	652	652	651	651	650	650	651	652	653	652	651	652	652	652	651	653	650
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23	655	655	655	654	654	655	655	655	656	656	656	656	656	655	655	655	655	655	655	655	655	655	655	655	655	656	654
24	656	656	655	655	656	656	656	656	657	657	657	657	656	656	656	655	655	655	655	656	656	656	656	656	656	657	655
25	656	656	656	656	656	656	656	656	657	657	657	657	656	655	655	655	654	654	654	654	654	654	654	654	655	657	654
26	654	654	653	653	653	653	653	653	654	654	654	653	652	652	652	651	651	651	651	651	651	651	651	651	652	654	651
27	650	650	650	650	650	650	651	651	652	652	652	652	652	651	651	651	651	651	652	652	652	653	653	653	651	653	650
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31	654	654	654	653	653	653	653	654	654	654	654	654	653	652	652	652	652	651	651	652	652	652	652	651	653	654	651
Avg	653	653	653	653	653	653	653	654	654	654	654	654	654	653	653	653	653	653	653	653	653	653	653	653	653	--	--
Max	656	656	656	656	656	656	656	656	657	657	657	657	656	656	656	655	655	655	655	656	656	656	656	656	--	657	--
Min	650	650	650	649	650	650	650	651	651	651	651	651	651	650	650	650	650	650	650	651	651	651	651	650	--	--	649

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Nov 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	651	651	651	651	651	651	651	652	652	652	652	652	651	651	651	651	650	651	651	651	651	651	651	651	651	652	650
2	651	651	651	651	651	651	651	651	651	652	652	652	651	651	651	651	651	651	651	652	652	652	652	652	651	652	651
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4	653	653	653	653	654	654	654	654	655	655	655	655	654	654	654	654	654	654	654	655	655	655	655	655	654	655	653
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6	658	658	658	658	658	658	659	659	660	660	660	659	659	658	658	658	658	658	658	658	658	658	658	658	658	660	658
7	658	658	658	657	657	657	657	657	657	658	657	657	656	656	655	655	655	654	655	655	655	655	655	655	656	658	654
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9	656	655	655	655	655	654	654	655	655	655	654	654	653	652	652	651	651	651	651	650	650	650	650	650	653	656	650
10	650	650	650	650	650	650	650	650	651	651	651	651	650	650	650	649	649	649	649	650	650	650	651	651	650	651	649
11	651	651	651	651	651	651	651	652	652	652	652	652	652	651	651	651	651	650	650	651	651	651	651	651	651	652	650
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13	653	653	653	653	653	653	654	654	654	654	655	654	654	653	653	653	653	653	653	653	653	653	653	653	653	655	653
14	653	652	652	652	652	652	653	653	653	653	653	653	652	652	652	652	651	651	651	651	652	652	652	652	652	653	651
15	652	652	652	652	652	653	653	653	654	654	654	654	653	652	652	652	652	652	652	651	651	651	651	651	652	654	651
16	650	650	650	650	650	651	651	652	652	653	653	653	653	653	653	653	654	654	654	654	655	655	655	655	653	655	650
17	655	655	655	655	655	655	655	656	656	657	656	656	655	655	655	655	655	655	655	655	656	656	655	656	655	657	655
18	656	655	655	656	656	656	656	657	657	658	658	658	657	657	657	657	657	657	657	657	657	657	657	657	657	658	655
19	657	656	656	656	656	656	656	656	656	657	656	656	655	655	654	654	654	654	654	654	654	654	654	654	655	657	654
20	654	654	654	654	654	653	654	654	654	655	655	654	653	653	653	652	652	652	653	653	652	652	652	652	653	655	652
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23	651	651	651	651	651	651	652	652	653	653	653	653	653	653	653	653	653	653	654	654	655	655	655	655	653	655	651
24	655	655	655	655	655	655	655	656	656	656	657	657	656	656	655	656	656	656	657	657	658	658	659	659	656	659	655
25	659	659	660	660	660	660	660	660	661	661	661	661	660	660	659	659	659	659	659	659	659	659	659	659	660	661	659
26	659	659	659	658	658	658	658	659	659	659	659	659	658	658	658	658	658	658	658	658	658	658	658	658	658	659	658
27	658	658	658	658	658	658	658	658	659	659	659	658	658	657	657	657	657	657	657	657	656	656	656	656	657	659	656
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30	652	652	652	652	652	652	653	653	654	654	655	654	654	653	653	653	653	653	654	654	654	655	655	655	653	655	652
Avg	654	654	654	654	654	654	654	654	655	655	655	655	654	654	653	653	653	653	654	654	654	654	654	654	654	--	--
Max	659	659	660	660	660	660	660	660	661	661	661	661	660	660	659	659	659	659	659	659	659	659	659	659	--	661	--
Min	650	650	650	650	650	650	650	650	651	651	651	651	650	650	650	649	649	649	649	650	650	650	650	650	--	--	649

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

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Oct 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	1.6	2.0	2.5	1.2	1.9	1.0	0.8	1.9	3.1	1.6	2.2	2.0	2.6	3.6	3.2	3.3	3.6	3.8	1.4	0.7	0.4	0.4	0.8	0.6	1.9	3.8	0.4
2	1.0	0.5	0.7	2.9	1.2	2.3	2.8	4.0	6.9	6.8	6.4	3.1	3.2	2.8	1.7	1.7	2.3	2.2	1.5	1.7	0.8	1.7	2.1	1.3	2.6	6.9	0.5
3	1.2	0.9	1.4	1.4	1.4	2.4	1.9	3.2	2.7	5.1	4.8	5.3	4.2	4.1	3.0	2.4	3.4	3.9	3.5	3.0	2.6	5.9	3.2	2.6	3.1	5.9	0.9
4	2.6	2.3	2.2	2.7	3.3	2.6	2.8	2.9	3.0	2.9	2.8	1.8	1.2	3.1	3.5	3.6	3.7	3.5	1.2	0.4	1.4	0.8	0.3	0.3	2.3	3.7	0.3
5	0.7	0.5	0.8	1.3	2.4	1.8	1.9	0.5	0.7	1.0	1.6	2.2	3.0	3.4	4.0	3.6	4.0	3.7	1.0	0.6	0.6	0.5	0.6	0.7	1.7	4.0	0.5
6	1.1	1.4	1.0	0.8	0.8	0.6	0.8	2.1	2.1	1.3	1.2	1.3	2.6	4.0	3.2	2.0	2.4	2.0	0.9	0.3	1.0	0.9	1.0	0.6	1.5	4.0	0.3
7	0.3	0.4	0.6	1.3	2.2	0.7	0.9	1.5	2.8	3.3	1.1	1.0	2.3	2.8	2.8	3.7	3.7	1.7	1.2	1.2	0.8	0.6	1.1	0.8	1.6	3.7	0.3
8	0.6	0.2	1.0	2.5	2.8	3.7	9.0	8.5	6.3	2.8	3.0	2.7	3.2	4.5	2.7	3.1	2.4	2.0	1.8	1.1	1.2	0.5	0.4	1.0	2.8	9.0	0.2
9	1.3	1.5	1.6	3.2	2.9	1.8	0.6	2.2	2.7	1.7	2.1	2.2	2.2	1.7	2.1	1.8	2.5	1.9	0.7	0.6	1.5	1.4	2.2	2.2	1.9	3.2	0.6
10	1.5	0.8	0.5	1.8	2.0	1.1	1.0	2.0	1.4	1.0	1.5	2.2	2.1	3.0	3.3	3.1	3.2	2.0	0.9	1.0	0.4	1.3	0.7	1.4	1.6	3.3	0.4
11	0.8	0.8	2.1	2.8	3.0	3.5	3.7	0.8	1.2	1.1	1.6	2.0	2.0	2.6	3.4	2.8	2.7	2.4	0.9	0.2	1.7	1.2	0.9	1.2	1.9	3.7	0.2
12	1.0	0.9	0.5	0.6	1.1	0.2	0.7	0.7	0.7	1.0	2.0	3.6	4.0	4.8	5.1	5.9	5.0	3.8	1.7	0.6	1.7	0.6	3.5	6.5	2.3	6.5	0.2
13	8.2	8.5	9.6	10.8	10.2	8.7	8.2	8.1	8.7	8.7	6.5	7.2	5.0	2.8	1.9	2.2	1.5	2.0	1.0	1.9	1.9	3.7	3.0	1.1	5.5	10.8	1.0
14	0.9	3.3	3.3	1.9	1.6	2.6	2.9	3.6	2.8	3.2	2.2	2.3	3.2	3.5	4.4	2.4	2.4	2.4	2.5	5.2	5.7	6.4	5.6	2.7	3.2	6.4	0.9
15	2.0	2.2	3.0	4.3	3.7	4.3	5.9	4.0	4.2	3.7	2.5	3.4	2.5	2.9	2.6	4.7	3.3	1.1	1.1	2.0	2.8	1.5	1.8	1.2	2.9	5.9	1.1
16	1.0	0.8	0.5	0.4	1.0	0.7	1.1	1.6	1.2	1.2	1.5	3.6	3.1	2.9	3.6	4.1	3.5	2.9	0.9	1.0	0.7	0.5	0.9	0.7	1.6	4.1	0.4
17	0.7	0.2	0.9	1.3	0.7	2.0	1.5	2.7	1.5	0.7	0.7	2.2	4.5	4.2	4.1	2.4	3.1	2.0	1.1	1.8	2.6	1.9	2.5	5.2	2.1	5.2	0.2
18	4.7	2.3	3.2	1.7	1.9	3.5	1.4	1.5	1.6	1.6	3.2	3.8	2.3	3.3	3.7	4.5	3.5	1.0	0.6	1.5	1.4	1.2	0.8	1.1	2.3	4.7	0.6
19	1.6	2.1	3.1	2.2	2.8	2.2	1.5	1.6	2.9	4.2	5.7	3.1	2.7	5.2	4.6	3.3	5.2	8.8	6.3	3.8	5.2	5.7	5.4	2.5	3.8	8.8	1.5
20	5.9	6.1	4.1	3.7	3.0	3.7	3.4	5.4	5.4	3.9	3.2	2.2	2.7	2.0	2.0	1.8	1.4	2.8	5.6	6.5	2.7	2.3	2.8	2.6	3.5	6.5	1.4
21	3.7	4.9	2.9	2.3	2.8	3.6	3.3	1.9	1.9	2.4	3.0	1.6	1.9	3.7	2.6	2.9	2.6	1.3	1.4	1.4	0.8	3.0	1.5	4.0	2.6	4.9	0.8
22	3.4	1.9	3.1	1.4	1.6	1.8	2.2	3.2	2.2	2.0	4.1	2.7	2.0	2.2	2.4	2.0	1.1	1.7	0.6	1.6	1.2	1.0	0.4	0.6	1.9	4.1	0.4
23	1.0	0.7	0.6	0.4	0.6	1.2	3.6	2.4	1.8	2.0	2.0	3.0	2.0	2.6	2.8	1.7	1.0	1.5	1.1	2.0	1.4	1.6	1.3	0.8	1.6	3.6	0.4
24	1.7	2.9	4.3	3.3	3.7	3.3	3.8	3.6	1.7	2.2	2.4	3.1	2.2	2.6	2.6	1.9	1.6	2.0	0.8	0.2	1.8	2.1	0.9	1.4	2.3	4.3	0.2
25	3.1	5.5	4.1	0.8	2.5	1.9	2.1	3.9	4.8	4.0	2.6	2.8	2.2	2.2	1.3	0.8	2.2	1.2	0.3	1.3	2.3	1.5	1.5	1.3	2.3	5.5	0.3
26	0.7	1.3	1.2	0.8	1.0	0.7	1.7	1.7	1.0	1.1	1.7	1.9	2.9	3.7	4.2	5.1	4.1	2.3	0.9	0.7	1.3	1.0	0.6	0.8	1.8	5.1	0.6
27	0.6	1.1	1.3	1.4	1.2	0.4	1.0	0.6	0.7	1.1	2.1	3.0	3.7	2.7	3.3	3.2	3.1	2.8	1.6	0.6	0.7	0.2	1.9	1.3	1.7	3.7	0.2
28	1.4	2.0	1.2	2.4	2.4	0.7	2.0	1.2	3.3	2.4	1.9	2.1	2.5	2.0	2.1	2.3	2.9	2.5	0.2	0.9	0.9	0.4	0.5	0.7	1.7	3.3	0.2
29	0.5	0.5	0.6	0.4	0.4	1.2	2.8	2.5	3.7	3.2	2.9	2.2	1.9	2.6	1.8	2.9	2.3	1.8	1.9	1.8	2.5	4.1	4.6	5.7	2.3	5.7	0.4
30	6.6	5.6	5.5	5.6	5.2	4.2	5.7	7.8	6.5	4.7	4.7	2.9	3.8	4.9	2.8	1.3	1.3	2.5	2.4	4.3	5.1	4.3	3.2	5.4	4.4	7.8	1.3
31	5.9	5.9	6.5	6.2	5.8	4.5	5.9	6.4	7.4	6.6	8.7	7.3	3.7	4.2	4.5	3.6	4.7	5.3	5.9	5.2	5.3	3.1	2.8	2.6	5.3	8.7	2.6
Avg	2.2	2.3	2.4	2.4	2.5	2.3	2.8	3.0	3.1	2.9	3.0	2.9	2.8	3.2	3.1	2.9	2.9	2.6	1.7	1.8	2.0	2.0	1.9	2.0	2.5	--	--
Max	8.2	8.5	9.6	10.8	10.2	8.7	9.0	8.5	8.7	8.7	8.7	7.3	5.0	5.2	5.1	5.9	5.2	8.8	6.3	6.5	5.7	6.4	5.6	6.5	--	10.8	--
Min	0.3	0.2	0.5	0.4	0.4	0.2	0.6	0.5	0.7	0.7	0.7	1.0	1.2	1.7	1.3	0.8	1.0	1.0	0.2	0.2	0.4	0.2	0.3	0.3	--	--	0.2

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Nov 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	1.9	1.8	0.9	1.4	1.1	0.8	0.5	0.8	1.6	3.3	4.5	5.1	4.9	5.1	5.0	4.5	4.5	3.4	1.8	1.0	1.4	1.7	1.9	2.7	2.6	5.1	0.5
2	2.8	1.7	1.3	1.6	2.3	0.8	0.8	0.6	1.1	1.8	2.9	3.2	3.7	5.1	6.1	6.3	4.8	3.9	1.9	0.4	1.1	1.3	1.7	0.9	2.4	6.3	0.4
3	1.0	0.2	0.5	1.2	1.2	1.2	0.6	1.7	1.2	1.1	2.0	2.4	3.8	4.1	3.6	4.1	4.2	3.0	0.8	0.8	1.1	0.5	0.5	0.5	1.7	4.2	0.2
4	0.6	1.7	6.2	8.4	10.3	11.6	12.1	10.8	11.1	8.8	7.2	6.5	5.3	4.1	4.0	3.2	3.3	3.4	3.9	4.7	4.1	4.5	3.6	4.4	6.0	12.1	0.6
5	6.2	5.4	3.5	3.2	5.2	5.8	6.7	5.1	5.6	5.8	6.3	3.1	3.4	3.1	2.9	2.5	2.0	2.2	3.1	3.1	1.5	3.2	4.1	2.2	4.0	6.7	1.5
6	4.6	7.9	7.1	6.8	4.9	3.3	4.4	6.1	3.2	2.8	2.9	3.7	3.5	4.7	3.0	2.7	3.3	3.5	3.0	3.2	1.6	2.7	2.0	5.2	4.0	7.9	1.6
7	2.4	1.2	1.5	1.8	2.2	2.8	3.3	2.3	1.8	5.3	3.8	4.6	2.7	1.8	2.0	2.8	2.3	1.8	0.5	1.3	1.3	1.4	0.5	0.5	2.2	5.3	0.5
8	0.7	3.2	2.4	1.5	1.5	1.9	3.5	2.9	4.7	3.2	3.4	2.6	4.0	4.2	3.2	2.8	3.8	2.4	3.0	3.1	4.0	3.4	3.0	2.3	2.9	4.7	0.7
9	2.5	3.1	3.7	3.6	3.2	3.2	3.8	3.6	3.6	4.1	4.3	2.5	2.3	1.8	2.7	2.8	1.3	0.7	0.7	1.1	1.5	1.9	2.1	0.5	2.5	4.3	0.5
10	1.5	1.4	2.0	0.5	1.4	2.1	2.4	1.8	1.1	1.3	2.5	2.6	3.5	4.2	4.4	5.2	3.9	1.5	0.7	0.7	0.6	1.2	0.5	0.9	2.0	5.2	0.5
11	1.1	0.7	1.5	1.6	1.0	1.0	1.4	1.9	1.4	2.2	2.9	4.0	4.0	3.9	3.5	3.7	3.2	1.4	0.4	0.3	0.9	0.9	1.0	0.7	1.9	4.0	0.3
12	0.5	0.4	0.9	0.8	0.3	1.4	0.9	0.6	0.8	2.2	3.6	3.2	4.2	4.3	3.1	3.5	3.2	1.8	0.6	1.9	2.2	0.7	0.3	1.4	1.8	4.3	0.3
13	1.0	1.3	1.2	2.8	2.5	2.4	5.7	6.1	4.8	3.1	1.4	2.7	4.2	2.9	3.5	3.9	4.6	2.5	1.0	0.7	1.3	1.7	1.1	1.9	2.7	6.1	0.7
14	1.2	2.2	2.7	2.8	3.1	3.2	4.7	5.0	6.3	3.5	3.1	2.3	4.2	3.9	3.7	3.3	2.7	1.8	1.6	0.5	0.3	0.5	0.6	0.4	2.7	6.3	0.3
15	0.2	0.7	0.7	0.5	0.9	1.1	2.6	2.9	3.1	1.2	2.0	2.6	2.2	2.6	4.5	4.2	3.9	2.2	0.5	0.6	0.5	0.6	0.1	0.5	1.7	4.5	0.1
16	0.6	0.6	0.8	2.5	1.8	0.5	0.7	0.8	2.0	1.2	5.3	5.5	4.5	3.2	5.0	3.1	3.0	2.6	2.1	2.8	5.0	4.6	11.2	8.4	3.2	11.2	0.5
17	3.5	3.9	4.3	5.8	7.9	4.2	7.6	9.6	10.2	10.8	11.9	9.3	4.9	3.9	3.6	3.1	4.5	4.0	2.4	5.5	9.8	8.2	10.3	8.7	6.6	11.9	2.4
18	9.6	8.2	5.1	11.1	11.1	8.7	5.2	8.1	6.7	7.8	6.3	7.4	4.0	2.7	3.3	2.7	2.7	3.1	4.0	3.5	1.9	1.6	3.2	4.3	5.5	11.1	1.6
19	6.3	6.0	1.7	1.4	2.1	3.5	3.4	2.4	2.8	3.5	3.5	3.7	1.9	2.8	3.2	2.3	2.5	0.9	0.3	0.7	1.4	1.2	1.1	1.4	2.5	6.3	0.3
20	0.5	1.7	1.9	1.0	1.2	2.6	1.3	2.1	2.4	1.7	1.3	1.9	1.9	3.0	2.7	2.8	2.7	1.6	0.5	1.6	1.7	2.9	3.6	1.5	1.9	3.6	0.5
21	2.6	5.7	3.8	5.3	5.4	6.0	6.4	4.9	4.6	4.6	2.5	2.1	1.6	1.4	1.2	2.5	2.8	1.5	2.1	2.9	1.3	1.5	1.3	0.9	3.1	6.4	0.9
22	1.4	0.7	0.6	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.2	1.9	2.0	3.0	3.6	3.2	4.0	1.9	1.0	1.2	0.4	0.7	0.3	0.6	1.4	4.0	0.3
23	1.1	0.6	0.4	0.9	0.6	0.6	0.6	0.5	0.3	1.2	2.4	3.3	3.0	4.0	3.3	4.3	3.2	2.6	3.7	4.3	2.8	1.8	2.0	1.5	2.0	4.3	0.3
24	0.8	0.8	2.5	2.5	1.1	1.0	1.0	0.7	0.6	0.8	1.4	1.8	3.5	4.3	3.5	4.0	2.8	1.2	1.0	1.7	2.7	4.1	2.5	2.3	2.0	4.3	0.6
25	2.6	3.3	2.7	3.8	2.1	3.2	3.7	2.4	1.8	4.1	2.2	1.5	1.7	2.5	2.1	3.0	3.3	1.9	0.7	0.5	1.5	0.7	0.9	1.4	2.2	4.1	0.5
26	1.9	1.7	2.6	3.0	0.6	0.9	0.7	1.0	0.8	0.8	1.8	2.1	3.1	3.5	3.1	2.8	2.1	1.5	0.8	0.6	1.2	3.8	2.6	3.3	1.9	3.8	0.6
27	3.2	2.6	2.0	2.0	2.5	3.1	3.1	3.3	2.9	4.4	3.7	3.0	3.0	2.3	3.0	2.1	3.4	1.7	1.5	1.4	1.4	1.4	1.8	1.1	2.5	4.4	1.1
28	2.8	1.8	1.0	2.2	4.3	5.3	3.6	2.1	3.1	3.3	3.2	3.0	3.1	2.1	3.9	1.9	0.7	0.7	0.8	3.3	3.4	3.1	1.7	1.9	2.6	5.3	0.7
29	1.1	1.6	4.6	3.6	3.4	4.9	5.6	5.6	6.3	4.3	2.2	2.7	2.2	3.4	3.8	3.6	3.2	0.9	1.3	1.3	3.0	0.5	1.4	1.7	3.0	6.3	0.5
30	1.3	1.7	1.9	1.4	1.9	1.2	1.5	1.7	1.0	1.2	2.2	3.8	3.7	3.2	3.5	4.7	3.7	1.3	0.9	1.1	1.0	1.5	1.1	1.6	2.0	4.7	0.9
Avg	2.3	2.5	2.4	2.8	2.9	3.0	3.3	3.3	3.3	3.3	3.5	3.5	3.3	3.4	3.5	3.4	3.2	2.1	1.6	1.8	2.1	2.1	2.3	2.2	2.8	--	--
Max	9.6	8.2	7.1	11.1	11.1	11.6	12.1	10.8	11.1	10.8	11.9	9.3	5.3	5.1	6.1	6.3	4.8	4.0	4.0	5.5	9.8	8.2	11.2	8.7	--	12.1	--
Min	0.2	0.2	0.4	0.5	0.3	0.5	0.5	0.5	0.3	0.8	1.2	1.5	1.6	1.4	1.2	1.9	0.7	0.7	0.3	0.3	0.3	0.5	0.1	0.4	--	--	0.1

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Dec 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	0.4	1.7	3.7	5.7	5.8	6.5	5.6	5.3	3.2	1.3	2.6	2.1	1.5	2.7	3.4	1.6	2.5	1.5	0.9	1.4	1.3	2.0	2.4	3.0	2.8	6.5	0.4
2	3.0	3.1	1.5	2.8	4.6	2.7	2.7	2.3	2.9	2.8	2.4	2.7	2.4	3.4	2.2	2.0	1.3	1.8	1.7	2.7	0.9	2.0	4.9	4.0	2.6	4.9	0.9
3	4.8	4.9	5.4	4.8	5.8	6.8	5.9	5.6	5.2	3.6	2.2	2.6	2.6	2.5	2.2	1.9	1.1	1.7	1.8	1.6	1.6	1.2	1.9	0.9	3.3	6.8	0.9
4	0.8	2.0	1.4	1.3	0.5	0.7	0.7	1.0	0.9	2.4	3.8	1.6	1.4	1.1	3.0	3.1	2.4	1.6	1.6	0.7	1.0	0.4	0.8	0.3	1.4	3.8	0.3
5	1.1	1.3	1.7	0.7	1.3	2.5	5.3	5.9	3.7	5.1	4.5	2.8	3.5	2.3	3.3	2.4	2.4	2.1	3.0	2.6	2.8	2.3	2.6	4.0	2.9	5.9	0.7
6	4.9	4.8	5.7	6.1	6.3	4.5	5.8	3.9	5.1	5.3	4.2	2.7	3.7	4.8	3.8	5.9	4.5	3.8	5.4	5.4	4.3	5.1	4.4	3.9	4.8	6.3	2.7
7	2.1	5.8	6.6	4.4	1.8	0.8	0.9	3.9	2.6	4.6	6.3	3.7	4.5	4.0	3.7	4.8	5.2	6.6	5.5	3.1	1.7	1.4	1.5	1.9	3.6	6.6	0.8
8	2.1	3.9	3.6	4.1	2.7	3.5	4.2	4.7	4.6	6.9	8.1	5.5	6.5	7.3	5.0	3.6	3.4	3.6	3.8	2.9	3.9	4.8	4.9	5.2	4.5	8.1	2.1
9	6.2	5.3	4.1	3.7	3.3	3.1	3.2	3.3	3.6	3.3	4.4	3.6	2.9	2.5	2.6	3.5	2.5	1.3	0.9	0.9	0.7	0.8	0.4	0.4	2.8	6.2	0.4
10	1.0	1.2	1.3	1.0	2.0	2.5	2.1	1.6	2.5	2.6	2.1	2.5	2.4	2.1	3.0	3.4	2.1	1.2	1.1	1.4	1.0	1.9	1.1	1.7	1.9	3.4	1.0
11	1.0	1.6	1.3	3.3	1.1	2.3	1.4	1.7	2.1	2.5	2.0	1.7	3.6	3.5	2.0	2.2	2.5	1.2	1.6	4.1	4.1	4.5	3.5	2.8	2.4	4.5	1.0
12	4.2	5.3	5.4	4.4	5.8	6.4	3.5	3.3	2.9	1.3	2.1	3.7	3.7	3.4	3.2	2.4	2.1	1.1	0.9	0.6	1.3	2.4	0.6	1.1	3.0	6.4	0.6
13	2.1	1.4	1.5	2.1	1.8	2.6	3.0	3.8	1.2	1.1	1.0	1.5	1.4	2.8	2.7	2.5	4.1	3.8	3.0	1.3	0.7	1.0	0.2	0.5	2.0	4.1	0.2
14	0.3	0.7	0.4	0.7	0.5	0.6	1.3	1.4	0.5	0.7	1.2	1.3	2.6	2.5	2.9	3.3	2.5	1.6	0.9	1.0	1.0	0.7	0.5	0.5	1.2	3.3	0.3
15	1.1	2.2	2.8	2.2	1.4	1.9	2.0	2.2	2.6	2.1	2.2	3.4	2.0	1.7	2.4	4.3	2.6	3.3	3.7	2.1	3.6	2.2	2.8	2.5	2.5	4.3	1.1
16	2.6	3.2	3.3	5.0	3.5	4.4	4.6	2.5	1.7	1.6	3.3	2.9	2.1	2.9	1.8	2.6	2.5	1.9	0.8	0.8	1.6	0.6	0.7	0.7	2.4	5.0	0.6
17	0.9	0.4	0.8	2.2	1.0	1.2	0.6	0.4	1.5	2.2	2.4	3.0	2.7	2.4	2.3	2.0	1.4	1.1	1.1	1.0	1.0	1.3	1.2	1.6	1.5	3.0	0.4
18	3.3	2.3	1.1	4.5	3.7	3.0	2.6	2.6	1.7	2.1	1.2	1.5	3.1	3.1	3.1	3.3	2.4	1.7	1.1	0.4	0.7	1.9	1.8	0.5	2.2	4.5	0.4
19	0.9	1.7	1.7	1.8	2.3	3.4	3.7	4.2	4.1	1.7	1.8	1.7	5.5	3.7	3.3	2.9	2.9	0.6	0.1	1.0	1.5	1.9	1.2	2.5	2.3	5.5	0.1
20	2.7	1.5	1.8	0.9	1.5	3.2	1.9	1.2	2.1	2.3	1.8	2.4	3.3	2.3	2.1	1.5	2.5	1.7	0.8	1.0	0.7	0.6	1.0	0.8	1.7	3.3	0.6
21	0.4	0.5	0.5	0.7	0.4	0.6	1.8	1.7	1.0	0.8	1.0	1.7	2.2	2.9	1.9	2.8	2.9	1.7	0.4	1.2	0.5	0.8	1.0	0.9	1.3	2.9	0.4
22	0.4	0.7	1.0	0.4	0.6	1.2	1.1	1.0	0.8	0.9	1.1	2.0	2.6	2.9	2.8	2.5	2.9	2.1	1.1	1.1	0.9	0.8	0.3	0.3	1.3	2.9	0.3
23	1.0	0.6	0.6	0.8	0.9	2.9	1.9	1.8	2.4	2.7	3.6	3.0	5.0	4.3	4.2	4.3	3.0	2.0	2.1	1.9	1.5	1.8	2.0	3.0	2.4	5.0	0.6
24	5.8	4.2	7.6	9.0	12.6	9.5	10.2	10.1	9.0	10.2	7.2	4.0	4.0	2.8	2.1	2.1	1.6	2.2	2.7	4.4	4.3	4.2	5.4	6.6	5.9	12.6	1.6
25	3.7	2.8	1.7	1.2	1.4	1.4	1.6	1.0	0.6	0.6	2.5	5.1	6.1	5.3	5.3	3.7	3.6	2.3	1.3	0.5	0.9	1.0	0.8	0.5	2.3	6.1	0.5
26	0.8	0.8	0.8	0.9	1.8	0.8	1.0	0.5	0.4	0.9	1.4	2.3	2.0	3.5	3.6	3.4	3.6	1.9	1.0	0.5	0.9	0.4	1.2	0.8	1.5	3.6	0.4
27	0.9	2.3	1.3	2.2	1.1	0.6	0.8	1.5	6.4	7.7	5.3	5.9	3.2	2.9	3.2	2.0	3.7	1.1	1.2	0.9	1.4	0.9	1.3	1.0	2.5	7.7	0.6
28	0.8	0.6	0.9	0.9	1.1	3.1	4.1	3.0	3.5	2.6	2.3	1.7	1.5	2.0	2.8	3.2	2.5	1.4	0.7	0.3	0.5	0.4	0.8	0.5	1.7	4.1	0.3
29	1.0	1.3	0.6	0.9	1.1	1.7	0.9	0.7	1.2	4.0	1.5	2.6	3.8	2.1	2.4	2.1	2.2	1.8	1.1	1.0	1.3	0.9	2.3	1.0	1.7	4.0	0.6
30	0.4	0.1	1.1	1.3	0.6	1.4	1.1	1.8	1.5	1.0	2.4	3.6	3.8	5.3	4.9	4.1	2.2	0.7	0.7	1.4	0.8	0.3	0.6	1.5	1.8	5.3	0.1
31	1.0	1.4	3.6	1.1	3.3	0.8	0.9	1.4	2.8	4.0	5.0	4.6	1.6	0.9	1.0	1.8	1.0	0.9	1.7	0.7	0.7	0.2	0.0	0.0	1.7	5.0	0.0
Avg	2.0	2.3	2.4	2.6	2.6	2.8	2.8	2.8	2.7	2.9	3.0	2.9	3.1	3.1	3.0	2.9	2.7	2.0	1.7	1.6	1.6	1.6	1.8	1.8	2.4	--	--
Max	6.2	5.8	7.6	9.0	12.6	9.5	10.2	10.1	9.0	10.2	8.1	5.9	6.5	7.3	5.3	5.9	5.2	6.6	5.5	5.4	4.3	5.1	5.4	6.6	--	12.6	--
Min	0.3	0.1	0.4	0.4	0.4	0.6	0.6	0.4	0.4	0.6	1.0	1.3	1.4	0.9	1.0	1.5	1.0	0.6	0.1	0.3	0.5	0.2	0.0	0.0	--	--	0.0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Oct 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	38	55	54	39	39	333	345	89	86	178	193	203	242	265	264	251	260	260	294	12	6	312	343	353	332	353	6
2	11	35	278	170	283	279	322	232	32	56	64	114	126	16	222	118	92	77	168	48	283	264	254	272	1	322	11
3	338	10	328	270	316	356	306	296	354	74	66	49	51	67	48	63	82	61	84	89	48	71	335	306	24	356	10
4	328	340	359	19	40	27	31	40	105	91	113	112	140	268	260	276	258	271	300	317	40	310	266	325	346	359	19
5	316	343	36	43	48	36	1	250	187	170	218	256	256	263	256	269	270	257	298	15	33	264	328	339	302	343	1
6	20	21	28	312	358	57	50	56	135	171	173	205	255	262	273	279	262	276	311	27	26	1	352	21	344	358	1
7	355	35	321	35	42	281	322	109	105	94	200	229	249	270	252	269	268	262	299	282	243	185	316	193	277	355	35
8	135	150	85	94	49	89	57	67	67	57	86	114	94	71	55	72	92	256	216	305	179	162	201	269	98	305	49
9	298	298	268	259	252	268	211	230	251	250	212	258	252	270	250	227	250	260	308	346	56	55	52	66	266	346	52
10	328	68	21	49	49	25	44	67	151	196	200	227	219	248	255	260	251	256	327	358	359	22	312	37	335	359	21
11	39	19	46	68	48	63	74	68	224	235	228	195	202	200	254	259	262	267	311	10	51	34	19	25	7	311	10
12	54	22	6	23	46	316	1	254	188	195	254	245	246	264	270	266	257	260	310	335	54	17	56	79	316	335	1
13	66	71	65	62	58	55	48	70	73	75	89	68	57	89	224	220	200	251	47	56	44	73	65	338	66	338	44
14	305	46	8	294	330	336	295	323	264	206	218	88	120	66	59	69	70	96	60	67	54	48	38	282	27	336	8
15	275	351	3	17	342	31	42	39	40	61	69	44	165	187	194	260	266	289	351	50	55	109	67	39	28	351	3
16	45	22	264	342	23	32	2	48	210	189	206	194	171	235	219	244	256	255	299	12	244	317	21	337	292	342	2
17	359	333	30	41	28	25	20	116	112	177	125	69	72	82	85	103	205	261	359	44	44	28	43	79	56	359	20
18	83	46	76	34	57	55	350	276	287	267	101	95	132	138	174	262	260	233	22	46	54	95	7	21	51	350	7
19	76	100	102	56	30	349	331	294	294	22	63	47	61	50	40	317	104	68	70	90	95	61	60	343	47	349	22
20	41	37	334	348	107	333	302	95	82	41	317	149	124	165	209	238	255	96	71	62	352	328	58	83	47	352	37
21	80	76	48	186	5	353	326	314	218	215	33	109	253	161	204	212	213	254	34	37	94	56	26	88	63	353	5
22	72	69	66	18	356	57	16	13	251	65	94	91	68	160	209	215	247	257	360	44	31	30	282	325	34	360	13
23	331	353	326	323	8	26	59	50	132	204	217	115	120	141	213	203	196	277	22	45	21	28	323	339	15	353	8
24	70	95	111	115	100	79	87	90	96	237	173	97	41	158	194	225	203	278	11	270	29	121	358	33	101	358	11
25	59	69	66	5	44	23	25	56	88	88	141	114	122	162	182	156	239	274	1	55	49	61	69	92	75	274	1
26	98	67	71	62	39	304	48	61	228	196	224	213	251	256	252	264	249	234	201	52	50	55	48	357	0	357	39
27	47	44	56	56	40	142	27	37	161	197	251	219	265	263	255	267	262	263	299	56	347	348	45	36	345	348	27
28	7	51	38	47	47	10	41	5	91	142	182	159	201	201	206	229	260	278	63	51	33	1	317	308	30	317	1
29	301	346	353	289	307	1	44	57	82	63	106	112	214	123	148	118	92	79	103	40	58	89	86	81	69	353	1
30	80	82	82	78	80	83	74	73	63	64	76	130	160	157	132	133	90	64	79	71	74	66	79	85	88	160	63
31	84	79	81	78	86	65	54	76	91	83	63	49	102	92	75	69	74	71	73	94	92	125	127	137	84	137	49
Avg	28	39	31	31	30	19	18	46	122	141	150	133	164	183	218	234	235	265	360	33	41	41	18	15	37	--	--
Max	359	353	359	348	358	356	350	323	354	267	317	258	265	270	273	317	270	289	360	358	359	348	358	357	--	360	--
Min	7	10	3	5	5	1	1	5	32	22	33	44	41	16	40	63	70	61	1	10	6	1	7	21	--	--	1

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Nov 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	83	64	13	339	5	47	41	74	138	164	167	164	204	229	262	254	253	244	195	162	156	192	178	197	175	339	5
2	223	154	114	233	305	17	198	66	175	232	288	221	269	246	245	257	259	261	272	55	47	356	22	281	258	356	17
3	314	82	297	40	48	356	297	49	152	153	262	274	253	264	265	251	256	259	330	70	28	299	275	288	300	356	28
4	322	13	33	27	36	34	33	33	30	27	21	4	7	23	28	17	22	8	9	17	6	7	20	4	18	322	4
5	6	32	89	76	87	122	71	78	85	81	67	304	110	104	112	74	32	34	71	85	27	73	75	120	73	304	6
6	82	61	63	58	77	77	69	57	62	132	93	88	67	63	81	80	60	66	105	101	97	82	171	86	81	171	57
7	331	334	18	297	344	322	58	28	60	82	91	118	129	112	221	252	274	295	17	47	39	58	340	335	15	344	17
8	304	63	40	49	354	20	57	358	72	283	30	276	103	100	140	83	56	127	89	109	124	116	139	94	72	358	20
9	76	324	288	322	312	280	356	16	24	44	49	95	98	91	205	211	217	223	43	58	45	49	45	14	26	356	14
10	64	69	59	337	75	58	56	68	94	144	172	185	222	237	231	233	262	225	2	182	64	64	29	69	92	337	2
11	65	64	59	73	80	70	66	71	101	153	174	179	210	223	204	216	234	260	309	141	56	50	72	65	106	309	50
12	92	192	102	290	355	63	276	287	240	175	192	218	254	253	256	250	210	258	335	41	49	21	333	52	272	355	21
13	4	53	55	59	96	88	70	65	81	192	192	169	176	164	174	235	265	283	33	35	35	56	109	46	86	283	4
14	57	58	52	58	56	62	71	72	72	78	183	187	230	237	246	255	273	281	291	316	301	61	46	59	38	316	46
15	76	278	61	16	63	76	60	58	87	191	194	219	233	188	240	250	237	267	70	52	56	47	68	80	84	278	16
16	132	142	326	331	343	317	279	259	289	270	22	43	31	16	16	212	76	58	281	63	66	239	66	70	5	343	16
17	242	236	243	260	60	324	71	71	78	72	62	58	58	82	71	66	70	64	73	54	63	70	60	55	63	324	54
18	66	69	53	66	65	68	60	75	80	82	60	58	68	56	41	60	60	97	86	116	337	299	42	80	63	337	41
19	76	69	324	358	64	91	89	94	142	72	65	43	36	159	223	229	273	358	4	19	37	13	23	28	46	358	4
20	7	34	47	8	41	60	186	97	119	185	174	190	194	236	267	268	270	299	351	50	47	50	66	44	48	351	7
21	51	70	76	76	69	73	64	78	76	82	60	69	293	254	288	234	264	312	47	89	74	64	19	58	55	312	19
22	79	9	330	11	68	279	328	253	249	188	193	228	247	281	276	263	270	277	68	53	327	11	32	64	311	330	9
23	63	39	294	344	334	257	353	24	243	186	244	251	236	256	312	5	20	28	34	30	25	357	39	31	346	357	5
24	351	308	46	79	302	358	304	343	206	147	133	219	261	273	257	241	216	125	351	8	25	32	3	329	324	358	3
25	26	109	150	84	128	123	162	194	355	120	83	277	249	203	261	257	268	300	343	11	35	336	26	99	68	355	11
26	353	73	77	34	8	300	32	343	128	178	256	255	257	216	278	283	283	304	67	358	348	56	245	225	319	358	8
27	245	327	306	308	292	308	336	3	306	341	220	231	238	240	51	152	52	76	235	338	290	317	181	48	302	341	3
28	245	102	2	304	42	58	12	301	303	273	240	150	84	109	198	201	211	101	35	55	53	49	50	56	49	304	2
29	53	19	67	75	58	73	75	79	71	79	181	173	174	211	214	202	210	326	35	33	52	45	76	67	80	326	19
30	100	93	87	80	84	74	89	99	257	218	183	172	201	208	198	212	241	293	349	62	58	51	63	55	112	349	51
Avg	41	53	38	20	38	39	44	48	91	141	150	192	211	208	240	237	265	306	19	54	40	36	49	53	45	--	--
Max	353	334	330	358	355	358	356	358	355	341	288	304	293	281	312	283	283	358	351	358	348	357	340	335	--	358	--
Min	4	9	2	8	5	17	12	3	24	27	21	4	7	16	16	5	20	8	2	8	6	7	3	4	--	--	2

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Dec 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	25	57	71	77	72	79	79	90	147	113	88	93	65	68	145	180	86	6	258	319	313	360	219	71	360	6
2	317	219	342	275	36	5	64	39	67	346	85	83	70	65	157	203	213	145	237	227	173	60	64	72	71	346	5
3	65	84	82	73	76	76	83	79	82	81	93	82	66	160	204	296	99	64	73	73	49	136	62	66	82	296	49
4	289	327	43	310	238	334	302	236	174	286	265	254	212	210	232	269	257	266	257	287	350	95	2	303	277	350	2
5	79	61	57	260	104	30	75	76	55	77	98	120	109	100	87	82	70	32	19	306	24	159	82	92	74	306	19
6	70	58	47	48	52	23	44	347	41	46	38	258	99	73	81	91	77	123	69	61	30	38	58	48	55	347	23
7	336	50	67	62	288	9	267	72	334	64	57	42	80	62	68	60	66	74	56	315	292	308	334	290	25	336	9
8	280	304	283	72	179	120	77	94	75	55	62	84	71	56	60	101	79	61	53	61	41	52	44	38	64	304	38
9	47	43	360	297	302	299	293	308	356	58	81	93	100	142	218	269	274	301	355	4	331	323	275	47	341	360	4
10	355	11	347	347	320	304	312	300	300	307	297	206	116	126	283	283	267	304	30	307	22	50	349	349	326	355	11
11	285	5	49	62	55	355	327	41	258	209	224	199	167	199	190	245	275	314	39	77	81	77	75	70	37	355	5
12	76	74	78	96	73	69	104	121	175	185	171	157	151	164	163	144	116	90	327	83	247	266	250	287	130	327	69
13	183	165	117	184	154	165	172	222	183	164	209	197	233	265	279	295	229	250	275	265	68	10	22	50	207	295	10
14	121	312	329	33	180	37	61	57	246	187	163	229	230	264	253	262	268	298	340	17	85	20	287	341	304	341	17
15	13	53	54	39	358	291	37	307	294	289	270	157	118	158	278	67	45	76	73	255	70	118	150	92	47	358	13
16	77	114	93	66	30	57	66	94	107	176	65	77	82	178	264	243	291	312	54	44	11	221	359	49	66	359	11
17	336	115	231	245	333	250	183	117	185	203	215	217	216	244	269	310	323	327	108	33	32	113	235	133	229	336	32
18	67	350	220	67	54	87	78	23	146	93	191	227	254	250	224	241	175	63	78	254	29	46	33	334	73	350	23
19	293	22	309	339	63	73	64	76	70	210	249	85	53	56	73	75	263	207	23	27	55	46	319	63	40	339	22
20	37	15	28	129	23	95	79	290	60	93	128	174	275	278	283	248	281	308	14	68	27	273	356	8	10	356	8
21	356	353	308	305	340	198	50	58	298	160	188	222	252	281	267	259	271	308	312	349	259	317	35	302	299	356	35
22	54	2	303	9	353	20	41	34	113	174	227	235	262	273	268	260	274	296	325	336	315	25	321	263	317	353	2
23	338	295	348	295	309	347	6	9	334	360	73	21	15	8	34	28	30	343	302	283	248	307	42	94	351	360	6
24	52	38	38	88	72	79	77	64	70	66	72	129	90	82	113	210	292	106	66	72	74	74	70	68	75	292	38
25	10	117	358	296	54	78	80	76	101	187	227	251	247	251	270	265	256	275	285	343	278	58	62	298	304	358	10
26	318	308	310	12	51	35	44	33	111	218	227	236	238	264	261	248	269	281	341	67	43	14	43	29	333	341	12
27	42	65	28	73	128	354	86	44	49	33	37	67	74	12	337	62	238	310	327	51	99	313	332	13	34	354	12
28	315	77	2	347	358	56	73	63	87	174	202	188	180	228	256	273	272	304	307	34	69	346	39	337	354	358	2
29	45	49	53	38	116	32	18	156	57	96	190	201	208	205	209	255	277	290	4	274	331	4	53	355	21	355	4
30	341	217	5	245	293	136	343	297	148	202	167	178	201	200	239	239	276	350	43	41	2	266	59	42	269	350	2
31	350	108	89	74	73	141	16	56	81	105	147	279	312	319	97	89	141	130	77	267	75	17	0	0	66	350	0
Avg	12	37	21	25	39	44	51	50	83	135	157	172	148	198	239	252	264	334	11	359	24	20	21	21	31	--	--
Max	356	353	360	347	358	355	343	347	356	360	297	279	312	319	337	310	323	350	355	349	350	346	360	355	--	360	--
Min	10	2	2	9	23	5	6	9	41	33	37	21	15	8	34	28	30	32	4	4	2	4	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Oct 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	1.24	1.87	1.28	1.36	1.33	0.94	1.01	0.17	-0.91	-1.18	-1.31	-1.48	-1.02	-0.95	-0.80	-0.92	-0.59	-0.26	0.06	0.43	1.41	0.88	1.19	1.49	0.22	1.87	-1.48
2	0.94	1.67	1.29	0.44	0.51	0.82	0.40	0.09	-0.51	-1.14	-1.40	-1.51	-1.74	-1.32	-1.10	-0.90	-0.54	0.09	0.30	1.27	0.85	0.61	0.77	0.79	0.03	1.67	-1.74
3	1.06	1.31	1.53	0.89	1.18	0.82	0.95	0.57	-0.32	-1.16	-1.15	-1.23	-1.34	-1.28	-1.19	-0.90	-0.38	0.21	0.76	0.39	0.47	0.51	0.50	0.53	0.11	1.53	-1.34
4	0.57	0.75	0.70	0.49	0.61	0.53	0.66	0.16	-0.52	-1.02	-1.36	-1.56	-1.27	-1.07	-0.88	-0.76	-0.62	-0.18	0.29	0.87	1.93	1.48	1.67	2.25	0.16	2.25	-1.56
5	1.89	2.15	2.19	1.37	1.25	0.84	0.90	0.14	-0.59	-0.95	-1.22	-1.06	-0.99	-0.88	-0.97	-0.75	-0.60	-0.26	0.11	0.89	1.84	0.95	1.16	1.19	0.36	2.19	-1.22
6	1.46	1.52	1.93	1.10	1.65	1.72	1.46	0.49	-0.88	-1.14	-1.13	-1.07	-0.87	-0.65	-0.52	-0.60	-0.30	-0.08	0.24	1.05	1.38	1.00	1.15	1.36	0.43	1.93	-1.14
7	1.19	1.71	1.66	1.56	1.39	0.76	1.06	0.47	-0.04	-0.44	-0.81	-0.88	-0.94	-0.89	-0.66	-0.43	-0.27	-0.09	0.00	0.02	-0.06	0.17	0.08	0.05	0.19	1.71	-0.94
8	-0.07	-0.05	0.08	-0.01	-0.06	-0.07	0.21	0.10	-0.07	-0.05	0.04	0.06	0.12	0.17	-0.31	-0.16	0.00	-0.04	0.00	-0.13	-0.23	-0.24	-0.33	-0.16	-0.05	0.21	-0.33
9	-0.15	-0.16	-0.15	-0.13	-0.16	-0.13	-0.20	-0.17	-0.18	-0.23	-0.65	-0.28	-0.36	-0.46	-0.58	-0.57	-0.43	-0.20	0.05	0.58	0.27	0.48	0.37	0.47	-0.12	0.58	-0.65
10	0.42	0.41	0.76	0.56	0.60	0.64	0.65	0.11	-0.89	-0.92	-1.00	-1.08	-1.06	-0.81	-0.73	-0.58	-0.45	-0.13	0.31	0.52	0.59	1.16	1.21	1.64	0.08	1.64	-1.08
11	1.11	1.20	1.11	0.76	0.65	0.71	0.53	0.40	-0.41	-0.44	-0.68	-1.33	-1.15	-1.11	-0.75	-0.77	-0.44	-0.17	0.14	1.02	1.42	0.81	0.84	1.07	0.19	1.42	-1.33
12	1.08	1.16	1.08	1.43	1.06	1.26	1.33	0.57	-0.51	-0.82	-0.61	-0.86	-0.94	-0.78	-0.73	-0.60	-0.40	-0.03	0.43	1.14	2.01	2.30	1.33	0.40	0.43	2.30	-0.94
13	0.37	0.32	0.31	0.28	0.29	0.31	0.32	0.12	-0.57	-0.97	-1.09	-1.28	-1.37	-1.26	-1.05	-0.93	-0.85	-0.06	0.67	1.13	1.07	0.62	0.64	1.53	-0.06	1.53	-1.37
14	1.26	0.72	0.81	0.93	0.62	0.86	0.89	0.39	-0.35	-1.12	-1.08	-1.37	-1.44	-1.35	-1.06	-0.82	-0.26	0.13	0.28	0.44	0.27	0.21	0.23	0.48	-0.01	1.26	-1.44
15	0.29	0.19	0.15	0.16	0.15	0.15	0.16	0.03	-0.18	-0.44	-0.79	-0.98	-1.54	-1.17	-0.97	-0.45	-0.22	0.04	0.63	0.76	0.41	0.42	0.78	1.81	-0.03	1.81	-1.54
16	1.87	1.11	1.03	1.38	1.15	1.15	1.06	0.70	-0.64	-1.00	-1.01	-2.15	-1.89	-1.13	-1.43	-0.84	-0.46	-0.07	0.25	1.02	0.37	1.05	1.73	1.22	0.19	1.87	-2.15
17	1.37	1.57	1.87	1.49	1.88	1.20	1.11	0.29	-0.24	-0.36	-0.28	0.17	-0.14	-0.68	-0.75	-0.91	-0.90	-0.04	0.63	0.66	0.60	0.58	0.86	0.50	0.44	1.88	-0.91
18	0.68	0.80	0.65	1.21	1.37	0.59	1.35	0.73	-0.22	-0.60	-1.00	-1.50	-1.40	-1.31	-1.18	-0.53	-0.30	-0.08	0.38	0.91	1.15	0.82	1.32	1.53	0.22	1.53	-1.50
19	0.97	0.69	0.53	0.32	0.22	0.45	0.72	0.50	-0.27	-0.75	-1.27	-1.21	-1.37	-0.67	-0.23	-0.23	0.40	0.53	0.30	0.45	0.46	0.30	0.32	0.42	0.07	0.97	-1.37
20	0.31	0.28	0.32	0.26	0.20	0.27	0.38	0.14	-0.31	-0.44	-0.64	-1.56	-1.46	-0.99	-0.97	-0.69	-0.44	0.20	0.35	0.30	0.33	0.44	0.25	0.40	-0.13	0.44	-1.56
21	0.52	0.37	0.27	0.21	0.20	0.20	0.21	0.35	-0.50	-0.75	-0.99	-0.97	-1.13	-1.38	-1.20	-1.09	-0.59	-0.07	0.81	0.56	0.67	0.61	1.23	0.75	-0.07	1.23	-1.38
22	0.69	0.63	0.79	0.97	0.79	1.09	0.52	0.30	-0.21	-0.59	-1.24	-1.22	-1.24	-1.51	-1.18	-0.86	-0.61	0.00	0.64	1.53	1.42	1.54	1.57	1.45	0.22	1.57	-1.51
23	1.37	1.97	2.30	2.09	2.18	2.11	0.98	0.50	-0.42	-0.69	-0.72	-1.38	-1.38	-1.50	-1.29	-0.76	-0.63	0.21	1.09	1.72	1.33	1.06	1.33	1.26	0.53	2.30	-1.50
24	1.42	1.33	0.62	0.82	0.85	0.87	0.70	0.43	-0.35	-0.46	-0.70	-1.36	-1.21	-1.42	-1.41	-0.90	-0.46	0.07	0.46	1.06	1.08	0.77	1.45	1.34	0.21	1.45	-1.42
25	0.63	0.59	0.55	1.10	1.33	0.86	1.01	0.37	-0.64	-0.83	-1.05	-1.40	-1.40	-1.23	-0.83	-0.62	-0.40	0.13	1.06	1.80	1.18	1.23	1.37	0.68	0.23	1.80	-1.40
26	0.76	1.37	1.19	1.60	2.07	1.11	1.56	0.46	-0.46	-0.97	-0.93	-1.19	-0.85	-0.97	-0.78	-0.58	-0.43	-0.16	0.10	0.43	0.64	0.59	0.31	0.42	0.22	2.07	-1.19
27	0.52	0.63	0.69	0.63	0.51	0.30	0.88	0.47	-0.74	-0.82	-0.74	-1.41	-0.99	-0.75	-0.82	-0.72	-0.51	-0.19	0.05	0.63	1.08	0.83	0.70	0.79	0.04	1.08	-1.41
28	0.71	0.98	1.29	0.90	0.95	1.12	0.80	0.57	-0.84	-1.18	-1.25	-1.58	-1.77	-1.39	-1.25	-0.94	-0.45	-0.10	0.22	1.18	1.42	1.73	1.33	1.33	0.16	1.73	-1.77
29	1.42	1.98	1.70	1.86	1.81	1.55	1.10	0.51	-0.65	-0.69	-1.37	-1.52	-1.20	-1.47	-1.12	-0.85	-0.25	0.56	0.92	1.48	0.97	0.76	0.66	0.60	0.37	1.98	-1.52
30	0.51	0.64	0.61	0.58	0.54	0.45	0.48	0.30	-0.49	-0.78	-1.30	-1.31	-1.48	-1.30	-0.77	-0.63	-0.19	0.25	0.43	0.38	0.37	0.30	0.28	0.33	-0.08	0.64	-1.48
31	0.34	0.26	0.23	0.22	0.20	0.13	0.15	0.05	-0.38	-0.63	-0.62	-0.93	-1.21	-1.19	-1.00	-0.72	-0.30	0.08	0.13	0.28	0.26	0.38	0.35	0.39	-0.15	0.39	-1.21
Avg	0.86	0.97	0.95	0.87	0.88	0.76	0.75	0.33	-0.46	-0.76	-0.95	-1.18	-1.16	-1.05	-0.92	-0.71	-0.41	0.01	0.39	0.80	0.87	0.79	0.86	0.91	0.14	--	--
Max	1.89	2.15	2.30	2.09	2.18	2.11	1.56	0.73	-0.04	-0.05	0.04	0.17	0.12	0.17	-0.23	-0.16	0.40	0.56	1.09	1.80	2.01	2.30	1.73	2.25	--	2.30	--
Min	-0.15	-0.16	-0.15	-0.13	-0.16	-0.13	-0.20	-0.17	-0.91	-1.18	-1.40	-2.15	-1.89	-1.51	-1.43	-1.09	-0.90	-0.26	0.00	-0.13	-0.23	-0.24	-0.33	-0.16	--	--	-2.15

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Nov 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	0.73	0.64	0.83	0.89	0.96	1.08	1.25	0.84	-0.40	-0.95	-1.38	-1.64	-2.26	-1.61	-0.74	-0.70	-0.55	-0.31	-0.02	0.01	0.01	-0.26	-0.31	-0.31	-0.18	1.25	-2.26
2	-0.28	0.08	0.11	-0.09	-0.08	-0.10	-0.15	-0.22	-0.58	-0.56	-0.46	-0.76	-0.52	-0.78	-1.01	-0.72	-0.43	-0.16	-0.01	0.37	0.89	0.51	0.79	0.58	-0.15	0.89	-1.01
3	0.76	0.73	0.83	0.79	0.56	0.65	0.88	0.39	-0.83	-0.92	-0.73	-0.86	-0.82	-0.79	-0.77	-0.85	-0.40	-0.09	0.16	0.67	1.54	1.02	0.78	1.05	0.16	1.54	-0.92
4	1.04	0.74	0.26	0.16	0.19	0.14	0.13	0.06	-0.36	-0.55	-0.78	-0.80	-0.76	-0.84	-0.80	-0.52	-0.24	0.06	0.18	0.21	0.20	0.20	0.23	0.21	-0.07	1.04	-0.84
5	0.13	0.22	0.30	0.49	0.16	0.15	0.23	0.15	-0.67	-0.78	-1.00	-0.94	-0.88	-1.06	-0.96	-0.71	-0.22	0.31	0.75	0.59	0.91	0.67	0.25	0.33	-0.07	0.91	-1.06
6	0.33	0.26	0.24	0.23	0.30	0.27	0.27	0.18	-0.46	-0.98	-1.20	-1.32	-1.24	-1.00	-0.77	-0.61	-0.26	0.14	0.32	0.39	0.54	0.55	0.42	0.30	-0.13	0.55	-1.32
7	0.43	0.89	0.95	0.81	0.56	0.44	0.27	0.19	-0.54	-0.96	-1.03	-1.49	-1.63	-1.39	-0.93	-0.60	-0.26	0.09	0.64	1.72	2.24	1.86	1.79	2.28	0.26	2.28	-1.63
8	1.66	0.95	1.19	1.19	1.47	1.57	0.92	0.60	-0.35	-0.34	-0.78	-0.88	-1.16	-1.19	-0.91	-0.70	-0.18	0.11	0.30	0.19	0.17	0.32	0.23	0.10	0.19	1.66	-1.19
9	0.12	0.12	0.23	0.15	0.21	0.24	0.22	0.22	-0.27	-0.54	-0.94	-1.08	-1.19	-1.11	-0.98	-1.15	-0.41	0.09	1.55	2.01	2.17	1.53	1.16	1.60	0.16	2.17	-1.19
10	2.02	2.12	1.38	1.41	1.43	1.42	1.20	1.16	-0.72	-1.12	-1.60	-1.49	-1.19	-0.93	-0.89	-0.71	-0.04	0.29	1.06	0.92	0.53	1.48	1.71	1.11	0.44	2.12	-1.60
11	1.25	2.03	1.85	1.64	1.57	1.55	1.50	0.98	-0.91	-1.23	-1.73	-2.02	-1.54	-1.61	-1.55	-1.12	-0.41	0.12	0.59	1.29	1.89	1.80	2.11	1.95	0.42	2.11	-2.02
12	1.73	0.55	0.72	0.57	0.89	1.07	0.88	0.36	-0.30	-1.34	-1.71	-1.42	-0.83	-0.66	-0.68	-0.69	-0.72	0.04	0.41	0.58	0.46	0.80	1.05	1.47	0.13	1.73	-1.71
13	0.96	0.99	1.01	0.54	0.49	0.36	0.15	0.06	-0.73	-0.87	-0.93	-1.70	-1.83	-1.56	-1.38	-0.71	-0.22	0.06	0.59	1.12	1.23	0.79	0.91	0.81	0.01	1.23	-1.83
14	0.56	0.75	0.50	0.45	0.41	0.36	0.31	0.18	-0.76	-1.27	-1.46	-1.03	-0.70	-0.67	-0.55	-0.30	-0.19	0.13	0.16	0.04	0.15	0.54	1.03	0.28	-0.05	1.03	-1.46
15	0.10	0.23	0.52	1.02	0.94	1.29	0.81	0.42	-0.80	-0.84	-1.29	-1.32	-1.11	-1.40	-0.95	-0.73	-0.60	-0.07	0.42	0.87	1.46	1.17	1.31	1.27	0.11	1.46	-1.40
16	0.46	0.29	0.34	0.09	0.06	-0.05	-0.05	-0.20	-0.25	-0.45	-0.86	-1.42	-1.26	-1.01	-0.85	-0.83	-0.32	-0.01	0.00	0.12	0.20	0.23	0.16	0.18	-0.23	0.46	-1.42
17	0.27	0.24	0.39	0.27	0.22	0.22	0.24	0.17	-0.57	-0.78	-1.07	-1.22	-1.25	-1.46	-1.18	-0.75	-0.18	0.15	0.41	0.22	0.14	0.13	0.16	0.21	-0.21	0.41	-1.46
18	0.15	0.22	0.25	0.19	0.21	0.23	0.30	0.28	-0.51	-0.76	-0.97	-1.34	-1.33	-1.24	-0.99	-0.66	-0.20	0.37	0.51	0.38	0.23	0.40	0.51	0.33	-0.14	0.51	-1.34
19	0.50	0.38	0.52	0.64	0.81	0.53	0.33	0.12	-0.26	-0.50	-0.72	-0.87	-0.83	-1.37	-0.95	-0.71	-0.20	0.85	1.94	1.08	1.95	1.67	1.65	1.43	0.34	1.95	-1.37
20	1.95	1.63	2.25	1.59	2.32	1.16	0.73	0.67	-0.61	-1.05	-1.10	-1.37	-1.38	-0.89	-0.51	-0.43	-0.21	0.19	0.84	1.36	1.17	0.66	0.59	1.33	0.45	2.32	-1.38
21	1.29	0.36	0.55	0.36	0.21	0.20	0.14	0.15	-0.01	-0.26	-0.41	-0.47	-0.74	-0.79	-0.68	-0.66	-0.16	0.13	0.78	0.39	0.81	1.12	1.70	1.38	0.22	1.70	-0.79
22	1.20	1.74	1.41	2.14	1.12	1.53	1.53	1.24	0.05	-0.60	-0.60	-0.96	-0.67	-0.72	-0.60	-0.44	-0.28	0.12	0.98	1.64	1.28	1.57	1.59	1.98	0.68	2.14	-0.96
23	2.84	2.85	1.63	1.75	1.78	1.00	1.58	1.25	0.16	-0.73	-0.73	-0.80	-1.10	-0.82	-0.61	-0.53	-0.21	0.18	0.34	0.30	0.30	0.37	0.77	1.23	0.53	2.85	-1.10
24	1.42	1.44	1.77	0.74	1.37	1.42	1.26	1.43	-0.06	-0.78	-1.16	-0.92	-0.72	-0.66	-0.44	-0.63	-0.47	0.42	1.06	1.16	0.40	0.29	0.26	0.24	0.37	1.77	-1.16
25	0.23	0.25	0.27	0.33	0.38	0.43	0.40	0.54	-0.18	-0.83	-1.10	-0.80	-0.73	-1.10	-0.41	-0.41	-0.20	0.12	0.78	1.80	2.01	1.31	1.62	1.04	0.24	2.01	-1.10
26	1.08	1.05	0.93	0.83	1.39	1.33	2.18	1.29	0.17	-0.53	-0.38	-0.39	-0.49	-1.51	-0.36	-0.40	-0.20	0.53	1.16	1.32	1.52	0.62	0.85	0.98	0.54	2.18	-1.51
27	1.02	1.06	1.08	0.78	0.66	0.67	0.66	0.53	0.14	-0.19	-0.76	-1.09	-0.80	-0.65	-0.65	-0.57	-0.10	0.26	0.59	1.30	0.88	1.38	0.98	1.82	0.38	1.82	-1.09
28	0.88	0.97	2.00	1.47	0.58	0.55	0.43	0.87	-0.03	-0.18	-0.51	-0.82	-1.06	-1.01	-1.69	-1.07	-0.36	1.38	1.96	1.09	0.72	0.70	2.04	1.78	0.45	2.04	-1.69
29	1.66	1.22	0.76	0.85	0.58	0.65	0.53	0.48	-0.36	-0.90	-1.28	-1.79	-1.49	-1.42	-1.38	-1.34	-0.64	0.75	1.44	1.21	0.73	1.30	2.08	1.47	0.21	2.08	-1.79
30	1.37	1.03	1.24	1.54	1.44	1.54	1.42	1.08	0.34	-0.33	-1.30	-1.70	-1.52	-1.46	-1.55	-1.20	-0.29	0.27	0.71	1.53	1.81	2.36	2.76	2.40	0.56	2.76	-1.70
Avg	0.93	0.87	0.88	0.79	0.77	0.73	0.69	0.52	-0.36	-0.74	-1.00	-1.16	-1.10	-1.09	-0.89	-0.72	-0.30	0.22	0.69	0.86	0.95	0.90	1.04	1.03	0.19	--	--
Max	2.84	2.85	2.25	2.14	2.32	1.57	2.18	1.43	0.34	-0.18	-0.38	-0.39	-0.49	-0.65	-0.36	-0.30	-0.04	1.38	1.96	2.01	2.24	2.36	2.76	2.40	--	2.85	--
Min	-0.28	0.08	0.11	-0.09	-0.08	-0.10	-0.15	-0.22	-0.91	-1.34	-1.73	-2.02	-2.26	-1.61	-1.69	-1.34	-0.72	-0.31	-0.02	0.01	0.01	-0.26	-0.31	-0.31	--	--	-2.26

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Dec 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	2.33	1.62	0.75	0.43	0.49	0.38	0.38	0.38	-0.47	-0.58	-1.28	-1.07	-0.81	-1.00	-0.61	-0.48	-0.20	0.57	0.89	0.37	0.63	0.54	0.34	0.35	0.16	2.33	-1.28
2	0.30	0.53	0.98	0.70	0.34	0.22	0.14	0.06	-0.02	-0.21	-0.36	-0.44	-0.51	-0.64	-0.59	-0.44	-0.12	0.03	0.06	0.00	-0.16	-0.04	-0.04	-0.11	-0.01	0.98	-0.64
3	-0.14	-0.15	-0.16	-0.12	-0.10	-0.05	-0.01	-0.05	-0.24	-0.40	-0.74	-0.76	-0.78	-1.38	-0.86	-0.20	-0.16	0.06	0.13	0.24	0.43	0.28	0.25	0.43	-0.19	0.43	-1.38
4	0.28	0.08	0.04	-0.02	-0.16	-0.06	-0.09	-0.12	-0.24	-0.09	-0.17	-0.25	-0.45	-0.50	-0.58	-0.36	-0.27	-0.17	-0.16	-0.07	0.21	0.11	0.24	0.02	-0.12	0.28	-0.58
5	0.05	0.16	0.13	0.03	0.26	0.30	0.35	0.22	-0.07	-0.63	-0.89	-0.59	-0.89	-0.69	-0.72	-0.43	-0.07	0.14	0.18	0.33	0.28	0.22	0.21	0.21	-0.08	0.35	-0.89
6	0.18	0.17	0.20	0.19	0.20	0.14	0.18	0.14	0.07	-0.02	-0.11	-0.13	-0.16	-0.12	-0.02	0.17	0.07	0.11	0.14	0.17	0.37	0.38	0.45	0.44	0.13	0.45	-0.16
7	0.59	0.43	0.48	0.57	0.65	1.18	1.50	0.56	0.18	-0.39	-0.64	-0.80	-0.95	-0.76	-0.56	-0.23	0.08	0.36	0.40	0.46	0.96	1.25	1.09	1.32	0.32	1.50	-0.95
8	1.07	0.76	0.50	0.37	0.26	0.32	0.32	0.28	-0.04	-0.15	-0.25	-0.70	-0.52	-0.41	-0.22	-0.12	0.04	0.17	0.22	0.20	0.27	0.21	0.21	0.21	0.13	1.07	-0.70
9	0.22	0.24	0.25	0.53	0.35	0.63	0.52	0.28	-0.04	-0.39	-0.85	-1.02	-1.14	-1.31	-0.87	-0.40	-0.21	0.29	1.01	1.49	1.48	1.64	1.37	2.00	0.25	2.00	-1.31
10	1.44	1.73	1.34	1.47	1.10	0.86	0.75	1.05	0.28	-0.20	-0.44	-0.94	-1.22	-1.01	-0.48	-0.50	-0.27	0.15	1.04	0.69	1.14	0.69	0.76	0.92	0.43	1.73	-1.22
11	0.82	0.74	0.99	0.47	0.94	0.42	0.47	1.15	-0.01	-0.71	-0.78	-1.09	-1.65	-1.80	-1.07	-0.58	-0.20	0.31	0.67	0.46	0.49	0.50	0.56	0.63	0.07	1.15	-1.80
12	0.53	0.48	0.51	0.60	0.43	0.41	0.54	0.62	0.28	-0.48	-1.11	-1.60	-1.53	-1.45	-0.98	-0.57	-0.07	0.23	0.52	1.19	0.23	0.10	-0.03	-0.05	-0.05	1.19	-1.60
13	-0.17	-0.07	0.05	-0.01	-0.04	-0.09	-0.12	-0.22	-0.27	-0.26	-0.45	-0.52	-0.40	-0.35	-0.33	-0.37	-0.29	-0.10	-0.08	-0.06	0.06	0.49	0.51	0.14	-0.12	0.51	-0.52
14	0.05	0.44	0.41	0.69	0.44	0.66	0.54	0.38	0.00	-0.35	-0.83	-0.50	-0.86	-0.48	-0.54	-0.45	-0.25	-0.05	0.22	0.59	0.34	0.55	0.46	0.77	0.09	0.77	-0.86
15	0.96	0.74	0.55	0.57	0.81	0.64	0.58	0.65	0.28	-0.02	-0.48	-0.83	-0.55	-0.63	-0.21	-0.23	0.04	0.46	0.49	0.29	0.41	0.34	0.34	0.21	0.23	0.96	-0.83
16	0.42	0.44	0.23	0.21	0.18	0.23	0.34	0.26	0.11	-0.08	-0.30	-0.59	-0.63	-1.00	-0.44	-0.37	-0.27	0.13	0.55	0.70	0.59	0.53	0.34	0.37	0.08	0.70	-1.00
17	0.32	0.12	0.08	-0.03	-0.13	-0.17	-0.25	-0.28	-0.20	-0.22	-0.24	-0.36	-0.67	-0.36	-0.26	-0.30	-0.16	-0.09	0.03	0.12	0.09	0.00	0.07	-0.02	-0.12	0.32	-0.67
18	0.19	0.23	0.37	0.23	0.09	0.09	0.11	0.05	-0.08	-0.27	-0.71	-0.58	-0.35	-0.40	-0.97	-0.53	-0.33	0.07	0.16	0.45	0.91	0.63	0.52	0.49	0.02	0.91	-0.97
19	0.52	0.88	0.55	0.66	0.67	0.54	0.46	0.41	-0.07	-0.38	-0.34	-0.70	-1.00	-0.80	-0.74	-0.46	-0.17	0.12	1.19	1.07	0.94	0.58	0.76	0.85	0.23	1.19	-1.00
20	0.55	0.54	0.43	0.69	1.10	0.75	0.59	0.91	0.72	-0.73	-0.70	-1.01	-0.61	-0.34	-0.39	-0.35	-0.29	0.07	0.39	0.64	1.03	0.59	1.01	0.97	0.27	1.10	-1.01
21	1.16	1.28	1.37	1.28	1.15	1.11	0.58	0.90	0.53	-0.41	-0.65	-0.70	-0.54	-0.52	-0.37	-0.38	-0.25	-0.06	0.20	0.48	0.57	0.67	0.85	0.68	0.37	1.37	-0.70
22	0.96	1.35	0.79	1.01	1.59	1.28	1.44	0.99	0.24	-0.48	-0.55	-0.70	-0.46	-0.48	-0.44	-0.38	-0.27	-0.03	0.37	0.52	0.85	1.17	0.94	1.26	0.46	1.59	-0.70
23	1.02	1.11	1.42	1.07	0.97	0.64	0.76	0.90	0.51	-0.29	-0.76	-0.90	-0.75	-0.59	-0.68	-0.46	-0.15	0.12	0.35	0.53	0.81	0.68	0.74	0.50	0.31	1.42	-0.90
24	0.40	0.26	0.22	0.23	0.28	0.32	0.29	0.22	-0.04	-0.52	-0.71	-1.14	-1.28	-1.09	-1.03	-0.52	-0.22	0.10	0.12	0.10	0.10	0.12	0.19	0.19	-0.14	0.40	-1.28
25	0.30	0.40	0.52	0.60	1.39	1.52	1.29	1.17	0.72	-0.29	-0.28	-0.48	-0.65	-0.49	-0.29	-0.23	-0.11	0.01	0.14	0.75	0.78	1.01	1.13	0.85	0.41	1.52	-0.65
26	0.48	0.74	0.79	1.47	1.39	1.30	1.97	1.69	0.91	-0.26	-0.63	-0.82	-0.70	-0.50	-0.65	-0.74	-0.37	-0.06	0.22	0.70	1.30	1.05	1.56	0.87	0.49	1.97	-0.82
27	1.25	0.66	1.38	0.83	0.84	1.23	1.09	0.77	0.05	-0.40	-0.75	-1.18	-1.16	-0.95	-0.80	-0.70	-0.59	0.19	0.59	1.68	0.93	0.76	0.87	0.92	0.31	1.68	-1.18
28	1.26	1.42	1.54	1.21	1.30	1.03	0.42	0.48	-0.04	-0.75	-0.80	-0.87	-1.00	-0.97	-0.62	-0.41	-0.23	-0.13	0.05	0.80	1.39	1.40	1.75	1.40	0.40	1.75	-1.00
29	1.65	1.72	1.34	1.89	0.94	1.75	1.81	1.01	0.34	-0.75	-0.92	-1.50	-1.79	-1.18	-1.04	-0.41	-0.29	0.05	0.76	0.76	1.48	1.94	2.12	1.32	0.54	2.12	-1.79
30	1.60	2.16	2.20	1.37	1.62	1.61	1.71	1.51	1.03	-0.21	-1.18	-1.71	-1.70	-1.79	-0.73	-0.72	-0.18	0.73	1.61	0.85	0.94	1.27	1.70	1.47	0.63	2.20	-1.79
31	1.24	1.16	0.84	1.30	0.86	0.85	2.17	1.94	0.11	-0.41	-0.20	-0.23	-0.24	-0.25	-0.40	-0.32	-0.36	-0.40	-0.14	-0.19	-0.18	-0.02	-0.05	-0.14	0.29	2.17	-0.41
Avg	0.71	0.72	0.68	0.66	0.65	0.65	0.67	0.59	0.15	-0.37	-0.62	-0.80	-0.84	-0.78	-0.60	-0.40	-0.20	0.11	0.40	0.53	0.63	0.63	0.68	0.63	0.19	--	--
Max	2.33	2.16	2.20	1.89	1.62	1.75	2.17	1.94	1.03	-0.02	-0.11	-0.13	-0.16	-0.12	-0.02	0.17	0.08	0.73	1.61	1.68	1.48	1.94	2.12	2.00	--	2.33	--
Min	-0.17	-0.15	-0.16	-0.12	-0.16	-0.17	-0.25	-0.28	-0.47	-0.75	-1.28	-1.71	-1.79	-1.80	-1.07	-0.74	-0.59	-0.40	-0.16	-0.19	-0.18	-0.04	-0.05	-0.14	--	--	-1.80

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Oct 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	19.5	19.8	20.1	19.1	19.1	18.8	18.5	20.0	23.1	24.8	26.3	27.0	27.3	27.6	27.7	27.9	27.3	26.4	24.8	23.8	22.4	22.1	21.6	21.0	23.2	27.9	18.5
2	20.8	20.7	20.8	21.1	19.9	19.5	20.4	21.0	23.4	24.7	25.6	26.5	28.0	28.5	29.2	29.8	29.5	28.5	26.0	24.1	23.6	23.1	22.5	21.8	24.1	29.8	19.5
3	22.1	21.1	20.7	20.7	20.8	21.8	21.3	21.7	24.8	27.7	28.8	30.0	31.5	32.6	33.0	33.0	32.4	31.2	29.8	29.0	28.5	29.3	27.5	26.0	26.9	33.0	20.7
4	25.5	25.3	25.5	25.6	25.1	24.8	24.2	25.6	27.8	29.4	30.4	31.7	32.5	32.9	32.8	32.7	32.3	31.0	28.9	27.4	25.8	24.9	24.4	23.8	27.9	32.9	23.8
5	23.5	22.5	22.2	21.8	22.2	21.8	21.2	22.2	25.3	26.8	28.3	29.2	30.0	30.3	30.8	30.4	30.0	29.0	27.2	25.7	24.5	24.2	23.4	22.5	25.6	30.8	21.2
6	22.7	22.0	22.0	21.4	21.0	20.7	20.2	22.3	24.7	26.5	27.7	28.6	29.3	29.3	28.7	29.1	28.4	27.5	26.4	24.7	23.5	22.8	22.7	22.7	24.8	29.3	20.2
7	22.3	22.4	22.2	21.7	22.4	21.2	21.2	22.1	23.7	25.1	25.8	27.6	28.8	29.1	29.1	28.5	27.7	26.5	25.8	25.1	24.5	24.0	23.6	23.3	24.7	29.1	21.2
8	22.7	22.7	22.1	21.9	21.5	21.6	18.8	19.5	19.7	19.5	17.6	17.9	18.3	19.3	21.1	20.9	20.1	20.2	18.7	17.8	17.5	17.5	17.7	17.9	19.7	22.7	17.5
9	17.8	17.8	17.7	17.5	17.3	17.3	17.4	17.5	17.2	17.4	18.0	17.5	18.3	19.5	20.5	20.9	21.1	20.7	19.8	19.0	18.9	18.2	18.2	17.9	18.5	21.1	17.2
10	17.4	16.9	16.8	17.0	17.1	16.9	16.7	18.0	20.3	21.5	22.7	23.5	24.4	24.8	25.1	25.0	24.7	23.9	22.7	22.3	20.8	20.3	19.8	19.6	20.7	25.1	16.7
11	19.6	19.6	19.9	20.0	19.9	19.8	19.6	19.9	21.9	23.4	25.3	27.2	27.7	28.2	27.8	28.0	27.5	26.5	25.2	23.6	22.6	21.8	21.5	21.1	23.2	28.2	19.6
12	20.8	20.4	19.8	19.7	19.5	18.8	18.6	19.0	21.9	23.8	24.5	25.7	26.2	26.7	27.0	27.3	27.1	26.3	24.9	23.9	22.8	22.4	22.3	22.4	23.0	27.3	18.6
13	22.6	21.8	21.5	21.2	20.9	20.4	20.1	20.5	21.2	22.0	22.8	23.9	25.4	26.2	26.9	27.3	27.1	25.6	23.1	21.7	21.4	21.6	21.0	19.7	22.7	27.3	19.7
14	19.2	20.6	20.5	19.4	19.6	19.8	18.9	20.1	22.3	24.5	25.7	27.2	28.3	28.9	29.2	29.5	28.9	27.8	26.8	26.4	25.8	25.7	25.9	24.5	24.4	29.5	18.9
15	24.5	24.2	24.3	23.7	23.4	23.5	23.3	23.5	24.3	25.6	27.4	28.5	30.5	30.6	30.3	29.2	28.2	27.2	26.1	25.3	25.2	24.6	24.3	22.9	25.8	30.6	22.9
16	22.6	22.7	21.9	21.4	20.9	20.7	20.0	20.9	23.1	25.6	27.6	29.6	29.7	29.5	30.0	29.1	28.1	26.7	24.9	23.7	22.9	21.5	21.1	20.9	24.4	30.0	20.0
17	21.0	20.2	20.2	20.4	19.7	20.3	20.1	20.5	21.2	21.9	21.9	22.2	24.4	26.6	27.7	28.8	28.6	26.1	24.0	23.0	23.1	22.9	22.4	22.9	22.9	28.8	19.7
18	23.0	22.2	21.8	20.6	20.2	20.8	19.4	20.4	22.0	25.5	27.2	28.8	30.3	30.6	30.7	28.9	27.6	26.4	25.1	23.9	23.5	23.2	22.3	22.5	24.5	30.7	19.4
19	22.2	22.0	22.8	22.9	23.2	22.0	20.8	20.9	22.8	25.3	26.7	27.5	28.2	26.8	26.0	22.2	17.9	17.0	16.4	17.7	18.6	19.6	19.3	18.0	22.0	28.2	16.4
20	18.9	18.8	18.6	18.9	18.9	19.0	18.1	19.1	20.2	21.7	23.1	25.1	25.9	26.3	26.9	26.5	26.4	25.0	23.9	23.3	23.0	21.9	22.1	21.4	22.2	26.9	18.1
21	20.8	21.2	21.1	21.0	20.7	20.1	19.4	18.8	21.1	22.7	23.7	24.8	25.8	26.5	26.8	26.7	26.1	25.1	23.3	22.9	21.4	22.0	21.1	21.8	22.7	26.8	18.8
22	21.6	20.8	20.4	19.9	19.6	19.6	20.5	20.9	22.3	24.2	25.7	26.5	27.5	28.6	28.5	28.3	28.0	26.6	24.6	23.0	22.1	21.8	21.5	21.0	23.5	28.6	19.6
23	21.1	20.6	19.9	19.6	19.7	19.3	20.6	21.1	23.7	25.6	26.8	28.3	29.1	30.1	30.2	29.6	29.4	27.6	25.3	23.8	23.1	23.5	23.2	23.2	24.3	30.2	19.3
24	22.8	22.9	23.5	23.0	23.0	23.0	23.1	23.6	25.5	26.7	28.2	29.7	30.3	31.3	31.5	31.2	30.8	28.7	27.3	25.6	24.8	24.7	23.0	23.4	26.2	31.5	22.8
25	24.6	24.8	24.4	22.9	23.1	22.9	22.6	23.4	25.9	27.7	29.7	31.1	31.7	31.9	31.4	31.1	31.1	29.6	27.7	26.3	26.2	25.9	25.4	25.6	26.9	31.9	22.6
26	24.9	23.5	23.2	22.4	21.5	20.7	20.7	21.5	23.5	25.0	26.3	27.3	27.5	28.1	28.1	27.2	26.5	25.6	24.1	23.3	22.8	22.7	21.7	21.8	24.2	28.1	20.7
27	21.1	20.4	20.2	20.1	20.0	19.5	18.4	18.4	21.0	22.7	23.5	25.1	24.9	25.0	25.4	25.1	24.6	23.7	22.5	21.3	20.6	19.9	19.8	19.3	21.8	25.4	18.4
28	19.0	18.3	18.3	18.4	18.2	17.8	18.0	18.4	21.3	23.1	24.4	25.2	26.2	26.4	26.7	26.6	25.7	24.1	22.8	21.1	20.2	19.7	19.2	19.1	21.6	26.7	17.8
29	19.0	18.7	18.9	18.2	17.7	18.3	18.6	19.7	22.9	24.6	26.5	27.6	27.9	28.7	28.7	28.7	28.0	26.8	24.6	23.1	23.3	23.9	23.9	23.7	23.4	28.7	17.7
30	23.3	23.4	23.1	22.7	22.9	22.8	22.6	22.7	24.6	26.1	27.7	28.8	30.0	30.0	29.5	29.4	28.7	27.2	26.4	26.2	26.2	26.2	26.2	25.7	25.9	30.0	22.6
31	25.5	25.0	25.0	24.4	24.3	24.1	23.6	23.1	24.1	25.3	26.0	27.4	28.9	29.2	29.4	29.5	28.8	27.6	26.7	26.1	25.9	25.3	24.7	24.6	26.0	29.5	23.1
Avg	21.7	21.4	21.3	20.9	20.8	20.6	20.2	20.9	22.8	24.4	25.5	26.7	27.6	28.1	28.3	28.0	27.4	26.2	24.7	23.7	23.1	22.8	22.4	22.0	23.8	--	--
Max	25.5	25.3	25.5	25.6	25.1	24.8	24.2	25.6	27.8	29.4	30.4	31.7	32.5	32.9	33.0	33.0	32.4	31.2	29.8	29.0	28.5	29.3	27.5	26.0	--	33.0	--
Min	17.4	16.9	16.8	17.0	17.1	16.9	16.7	17.5	17.2	17.4	17.6	17.5	18.3	19.3	20.5	20.9	17.9	17.0	16.4	17.7	17.5	17.5	17.7	17.9	--	--	16.4

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Nov 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	23.2	22.1	21.7	20.7	20.1	19.3	19.3	18.4	21.2	23.1	24.8	25.5	26.9	26.1	24.5	24.3	23.3	21.9	20.5	20.0	19.6	19.5	19.0	18.7	21.8	26.9	18.4
2	17.9	16.0	15.7	15.5	15.0	14.9	14.6	15.0	16.0	16.6	15.7	16.9	16.5	17.4	18.4	17.7	17.1	16.0	14.7	13.5	12.7	13.3	12.9	11.7	15.5	18.4	11.7
3	11.0	10.8	10.4	10.8	10.4	10.4	9.5	10.3	12.8	14.7	16.2	17.1	17.6	17.9	18.2	18.3	17.5	16.3	15.1	14.1	13.1	13.4	12.8	12.3	13.8	18.3	9.5
4	11.9	12.0	14.5	14.2	14.5	14.0	14.0	13.9	14.8	15.9	17.1	18.7	19.8	21.0	21.5	21.5	21.1	20.1	19.6	19.4	18.8	18.3	17.8	17.1	17.1	21.5	11.9
5	17.1	16.1	15.6	15.5	14.9	14.2	15.0	14.8	16.5	17.5	18.9	20.3	21.7	23.0	23.8	24.1	23.8	23.0	21.1	20.3	18.6	18.9	18.7	18.6	18.8	24.1	14.2
6	18.6	18.7	18.3	17.7	16.7	16.4	15.7	15.8	17.6	19.2	20.8	22.4	23.3	24.0	24.8	25.0	24.3	22.5	21.3	20.7	19.2	18.8	18.0	18.3	19.9	25.0	15.7
7	17.1	15.8	15.2	15.3	15.1	15.2	15.9	16.3	17.8	19.1	20.3	22.3	24.2	25.2	25.4	25.0	24.3	22.6	20.7	18.7	18.1	18.1	17.5	17.1	19.3	25.4	15.1
8	16.3	17.9	17.5	17.0	17.2	17.2	18.9	19.7	22.1	23.3	24.4	25.5	26.4	26.8	26.9	26.8	25.8	24.3	23.1	23.0	22.5	21.3	20.6	20.4	21.9	26.9	16.3
9	20.0	19.8	19.2	19.5	18.9	18.9	18.8	18.5	20.5	21.6	22.4	23.6	24.9	25.7	26.3	26.8	25.6	24.3	21.7	20.5	19.7	19.2	19.4	18.3	21.4	26.8	18.3
10	18.0	17.7	18.0	16.8	16.6	16.5	16.3	16.4	19.6	21.3	22.7	23.5	24.4	24.5	24.9	24.7	23.8	22.7	21.3	20.8	20.5	19.6	19.1	19.0	20.4	24.9	16.3
11	18.0	17.2	16.8	16.8	16.4	15.8	15.8	16.2	19.1	20.7	22.4	23.3	23.6	24.2	24.6	24.4	23.2	21.8	20.9	19.7	18.8	18.7	18.2	18.0	19.8	24.6	15.8
12	17.7	18.2	17.7	16.8	16.8	16.2	15.3	16.3	17.3	19.9	21.1	21.2	21.0	21.2	21.3	21.5	21.5	19.9	19.1	18.4	17.9	17.0	16.4	16.2	18.6	21.5	15.3
13	15.8	16.0	16.3	16.7	16.6	16.9	17.1	16.9	18.4	19.3	19.6	21.6	22.5	22.6	23.1	22.7	21.2	19.7	18.8	18.1	17.2	16.8	15.8	16.3	18.6	23.1	15.8
14	16.3	15.8	15.8	15.6	15.4	15.2	15.4	15.8	17.1	19.2	20.4	20.0	19.9	19.8	19.6	19.0	18.6	17.6	16.9	16.2	16.0	15.4	14.8	15.5	17.1	20.4	14.8
15	15.8	14.9	14.5	13.8	12.7	12.3	12.9	13.2	15.7	16.9	18.3	18.9	19.2	20.2	20.4	19.8	19.5	18.0	17.1	16.5	15.8	15.5	15.0	14.7	16.3	20.4	12.3
16	14.8	13.9	13.4	13.4	13.2	13.3	13.2	12.9	12.6	13.8	15.4	16.4	16.0	16.0	15.8	15.6	14.2	12.7	11.7	10.8	10.9	10.0	11.0	11.2	13.4	16.4	10.0
17	9.4	8.6	8.1	8.5	10.0	9.8	10.4	10.0	10.7	11.3	12.4	13.9	15.4	16.5	16.8	16.7	15.9	14.6	13.5	13.7	13.2	12.2	11.8	12.4	12.3	16.8	8.1
18	11.2	10.8	11.4	11.5	11.7	11.8	11.2	11.7	13.4	13.6	14.9	16.0	17.2	18.3	18.8	18.8	17.9	16.4	15.0	14.6	14.9	14.6	14.5	14.6	14.4	18.8	10.8
19	14.8	14.5	12.8	13.0	12.3	12.6	12.8	13.1	13.9	15.0	16.5	18.2	19.5	20.8	20.6	20.3	19.1	16.8	14.9	14.1	13.1	13.2	12.6	12.8	15.3	20.8	12.3
20	12.1	12.3	11.5	11.8	10.5	12.0	11.1	11.3	13.7	16.1	17.8	19.1	19.9	19.7	19.4	19.3	18.4	16.7	15.4	14.2	13.7	14.3	14.2	13.4	14.9	19.9	10.5
21	13.2	14.8	14.7	14.5	14.4	14.0	14.0	13.9	13.9	14.6	15.5	16.2	17.5	18.3	18.7	19.0	17.8	16.3	15.1	15.2	13.4	12.4	11.8	10.7	15.0	19.0	10.7
22	11.4	10.9	9.9	10.0	10.4	9.6	9.5	9.2	11.6	13.8	15.7	17.0	17.6	18.5	18.5	18.1	17.1	15.6	14.1	13.5	12.6	12.6	12.1	12.1	13.4	18.5	9.2
23	11.5	11.4	11.3	11.2	10.8	9.8	9.7	10.0	12.0	14.5	15.0	15.7	17.0	17.2	17.8	18.0	17.0	15.7	14.8	14.2	13.4	12.6	10.2	9.4	13.3	18.0	9.4
24	8.8	7.8	8.1	9.0	8.5	8.0	7.8	6.9	9.0	11.9	14.2	15.1	15.2	15.2	15.3	16.0	15.5	13.3	12.2	12.0	13.3	12.6	11.7	11.1	11.6	16.0	6.9
25	10.5	9.8	9.3	8.6	8.2	7.9	7.9	7.6	9.3	11.2	13.2	14.0	15.3	16.6	16.2	16.4	15.6	13.8	12.2	10.8	10.3	9.9	9.8	10.4	11.4	16.6	7.6
26	9.6	10.4	10.9	11.0	9.5	9.9	9.4	9.3	12.1	14.9	17.1	19.5	21.8	23.5	21.7	21.4	20.5	18.5	16.8	16.0	18.5	21.2	17.8	18.6	15.8	23.5	9.3
27	18.3	18.1	17.4	17.5	18.2	18.3	17.5	17.6	18.1	20.5	22.4	23.7	24.4	24.9	25.5	25.5	24.5	22.8	20.9	19.8	19.7	19.1	18.7	17.7	20.5	25.5	17.4
28	18.6	18.2	16.2	16.8	19.2	19.2	18.9	17.3	19.8	20.8	22.1	23.1	24.5	25.7	26.8	26.2	25.3	22.4	20.4	20.2	19.6	19.2	17.6	17.6	20.7	26.8	16.2
29	17.0	16.8	18.5	18.0	17.1	17.7	17.4	17.6	19.1	20.7	21.8	23.3	23.9	24.8	24.7	24.6	23.3	20.9	18.9	17.8	18.8	17.6	17.0	17.5	19.8	24.8	16.8
30	16.2	16.8	16.1	15.5	15.4	15.0	14.9	15.1	14.5	17.3	20.1	21.4	21.9	22.2	22.8	22.4	21.1	19.3	17.8	16.6	15.8	15.0	14.2	13.7	17.6	22.8	13.7
Avg	15.1	14.8	14.6	14.4	14.2	14.1	14.0	14.0	15.7	17.3	18.6	19.8	20.6	21.3	21.4	21.3	20.5	18.9	17.5	16.8	16.3	16.0	15.4	15.2	17.0	--	--
Max	23.2	22.1	21.7	20.7	20.1	19.3	19.3	19.7	22.1	23.3	24.8	25.5	26.9	26.8	26.9	26.8	25.8	24.3	23.1	23.0	22.5	21.3	20.6	20.4	--	26.9	--
Min	8.8	7.8	8.1	8.5	8.2	7.9	7.8	6.9	9.0	11.2	12.4	13.9	15.2	15.2	15.3	15.6	14.2	12.7	11.7	10.8	10.3	9.9	9.8	9.4	--	--	6.9

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Dec 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	13.4	13.2	14.0	14.8	14.5	14.5	14.6	14.4	15.8	17.6	19.9	20.0	20.0	20.8	20.8	21.0	20.3	18.5	17.9	18.2	17.5	18.1	18.0	18.0	17.3	21.0	13.2
2	18.4	17.3	16.7	16.7	17.8	18.0	17.9	17.7	18.2	18.7	19.5	20.0	20.6	21.2	21.3	20.6	19.7	18.9	18.4	17.5	16.2	15.2	14.9	14.9	18.2	21.3	14.9
3	14.2	14.0	14.0	14.3	14.8	15.1	15.7	15.8	16.6	17.8	19.8	20.6	21.0	22.8	22.4	20.7	20.1	19.7	19.3	19.3	19.4	18.6	19.0	18.7	18.1	22.8	14.0
4	17.9	15.8	14.8	15.0	14.4	14.6	14.4	14.1	13.8	13.5	12.7	12.6	13.5	14.4	15.6	14.9	14.8	14.2	13.9	13.7	13.3	12.7	12.4	12.8	14.2	17.9	12.4
5	13.0	12.7	12.8	12.9	13.3	13.1	13.1	13.0	14.2	16.3	17.0	16.8	17.5	17.8	18.3	18.4	17.8	17.2	17.2	16.3	16.7	16.7	16.7	16.7	15.6	18.4	12.7
6	16.5	16.5	16.3	16.3	16.1	16.2	16.3	16.4	16.4	16.6	17.2	17.6	17.3	17.7	17.7	18.0	17.8	17.3	17.1	17.2	16.4	16.3	16.2	15.7	16.8	18.0	15.7
7	14.7	15.4	15.7	15.3	13.3	12.6	12.8	14.6	15.1	17.5	19.1	19.9	21.0	21.4	21.4	21.0	20.4	19.9	20.1	17.8	16.4	16.1	15.5	15.3	17.2	21.4	12.6
8	15.4	16.8	17.4	18.4	17.4	17.5	17.9	17.3	18.1	19.0	19.3	20.4	20.9	21.1	20.7	20.4	20.3	20.1	20.1	19.8	19.6	19.7	19.5	19.3	19.0	21.1	15.4
9	19.0	18.8	18.6	17.5	17.9	16.7	16.4	17.5	18.7	20.2	21.1	22.0	23.0	24.1	23.7	21.9	20.6	19.1	17.6	16.8	15.8	15.8	15.0	14.7	18.9	24.1	14.7
10	14.8	14.7	14.8	14.7	15.0	15.3	15.5	14.8	16.1	18.5	20.2	21.5	22.3	22.8	22.0	21.6	20.2	18.8	17.5	16.8	15.8	16.6	16.1	15.3	17.6	22.8	14.7
11	14.3	13.9	13.7	14.6	13.5	15.0	14.0	13.6	16.4	17.0	18.3	20.0	21.6	22.1	21.6	21.1	19.7	18.3	17.1	17.2	17.3	17.4	17.0	16.5	17.1	22.1	13.5
12	16.8	16.7	16.8	16.1	16.6	16.7	15.7	15.1	15.1	17.3	20.1	21.5	22.1	22.5	21.8	21.4	20.7	19.4	18.7	17.4	17.1	16.0	15.2	14.9	18.0	22.5	14.9
13	14.5	13.4	13.4	13.4	13.1	12.4	11.7	9.6	8.5	8.6	9.2	9.2	9.6	10.1	10.3	10.8	11.5	10.7	9.9	9.2	8.6	8.6	8.3	8.4	10.5	14.5	8.3
14	8.7	7.8	7.0	6.6	6.1	5.9	5.9	6.0	6.7	8.7	9.9	9.9	11.3	11.1	11.5	11.1	10.5	9.7	9.1	8.4	7.8	7.4	7.0	7.0	8.4	11.5	5.9
15	7.0	7.3	7.7	7.5	7.3	6.7	8.1	7.1	7.8	10.0	12.8	14.0	14.5	15.2	15.5	15.8	15.3	13.5	13.5	14.2	14.0	14.1	13.9	13.7	11.5	15.8	6.7
16	13.0	12.5	13.2	13.1	13.0	12.8	12.7	10.4	10.2	11.3	14.6	15.9	16.1	17.4	16.0	16.2	14.0	12.8	11.6	11.0	11.0	10.7	10.4	10.5	12.9	17.4	10.2
17	10.4	10.0	9.9	8.8	7.7	7.7	7.3	7.6	7.8	8.0	8.3	9.3	10.2	10.2	9.8	10.0	9.7	9.3	8.9	8.8	8.6	8.4	8.5	8.4	8.9	10.4	7.3
18	8.6	7.9	6.9	8.0	8.2	8.3	8.5	8.7	9.0	9.5	10.7	11.4	10.9	11.0	12.0	11.2	9.8	9.5	9.5	8.6	7.8	7.6	7.4	7.0	9.1	12.0	6.9
19	6.5	7.0	7.1	6.9	6.6	6.8	6.6	6.4	7.9	9.7	10.5	12.2	13.4	14.0	14.2	14.3	13.1	11.3	9.7	9.4	9.1	9.3	9.3	9.6	9.6	14.3	6.4
20	9.9	10.0	9.7	8.8	7.8	7.8	8.0	7.0	8.1	11.4	13.4	14.7	14.1	13.3	13.6	13.8	13.4	11.8	10.9	10.2	9.7	9.1	9.0	8.8	10.6	14.7	7.0
21	8.6	8.2	7.5	7.7	7.1	7.0	8.4	7.9	7.7	10.1	11.7	12.8	13.3	13.5	13.6	13.5	12.7	11.7	11.1	10.6	9.9	9.1	9.0	8.7	10.1	13.6	7.0
22	8.3	8.2	7.9	7.8	7.5	7.6	7.4	7.2	8.2	10.8	11.8	12.9	13.2	13.7	13.6	13.6	13.2	12.1	11.3	11.0	9.8	9.4	9.1	9.0	10.2	13.7	7.2
23	8.7	8.6	8.6	8.3	8.0	10.6	11.3	10.2	9.9	11.4	12.0	12.5	12.9	13.2	13.9	13.8	13.2	12.1	11.0	10.3	8.8	8.9	8.5	8.4	10.6	13.9	8.0
24	8.6	8.4	8.5	8.0	8.6	9.3	9.1	8.2	9.1	10.1	12.5	13.6	14.4	14.8	15.5	14.6	13.4	12.5	12.6	12.1	12.6	12.5	12.3	12.2	11.4	15.5	8.0
25	11.6	11.0	10.5	9.4	9.8	9.9	10.2	10.7	10.1	12.4	12.9	13.7	13.4	12.5	11.5	11.1	10.7	9.6	8.7	7.6	7.0	5.7	5.1	4.9	10.0	13.7	4.9
26	4.7	3.6	2.9	1.7	1.4	1.8	1.2	1.3	2.6	4.7	6.0	7.0	7.5	7.8	7.9	8.0	7.3	6.2	5.6	4.4	3.7	3.2	2.8	2.5	4.4	8.0	1.2
27	2.2	3.1	2.4	2.5	1.7	1.4	1.6	2.5	5.7	6.3	7.6	8.6	9.4	10.3	10.8	11.0	10.1	8.4	7.3	5.8	4.8	4.9	4.8	4.8	5.7	11.0	1.4
28	3.9	3.4	3.1	3.4	3.1	3.6	4.1	4.0	5.3	7.9	9.3	10.4	11.3	12.0	11.6	10.6	9.9	9.2	8.7	7.1	6.0	5.6	5.0	4.6	6.8	12.0	3.1
29	4.6	4.8	4.7	4.3	4.6	3.8	3.3	3.1	5.2	8.9	10.4	12.3	13.1	13.3	13.9	13.2	12.4	10.6	8.8	7.9	7.2	7.0	8.1	7.9	8.1	13.9	3.1
30	7.1	6.6	6.7	6.0	6.2	6.4	6.2	5.3	8.0	11.1	15.2	16.3	16.8	17.4	16.1	15.7	14.6	12.8	11.3	9.6	9.4	7.8	8.0	8.2	10.4	17.4	5.3
31	7.1	8.6	10.0	8.8	9.9	8.4	7.3	7.7	8.9	10.1	10.2	4.8	3.4	2.9	3.3	3.6	3.6	2.9	2.3	1.9	0.9	0.4	-0.1	-0.2	5.3	10.2	-0.2
Avg	11.0	10.8	10.7	10.6	10.4	10.4	10.4	10.2	11.0	12.6	14.0	14.7	15.1	15.6	15.5	15.3	14.5	13.5	12.8	12.1	11.6	11.3	11.0	10.9	12.3	--	--
Max	19.0	18.8	18.6	18.4	17.9	18.0	17.9	17.7	18.7	20.2	21.1	22.0	23.0	24.1	23.7	21.9	20.7	20.1	20.1	19.8	19.6	19.7	19.5	19.3	--	24.1	--
Min	2.2	3.1	2.4	1.7	1.4	1.4	1.2	1.3	2.6	4.7	6.0	4.8	3.4	2.9	3.3	3.6	3.6	2.9	2.3	1.9	0.9	0.4	-0.1	-0.2	--	--	-0.2

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Oct 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	7	192	445	635	777	850	857	800	679	501	289	79	0	0	0	0	0	0	255	857	0
2	0	0	0	0	0	0	7	193	451	650	796	874	885	816	688	508	290	77	0	0	0	0	0	0	260	885	0
3	0	0	0	0	0	0	6	192	453	638	796	872	875	814	683	500	284	74	0	0	0	0	0	0	258	875	0
4	0	0	0	0	0	0	5	178	443	638	778	847	848	790	669	493	280	68	0	0	0	0	0	0	252	848	0
5	0	0	0	0	0	0	5	168	429	622	765	837	851	788	665	486	273	65	0	0	0	0	0	0	248	851	0
6	0	0	0	0	0	0	12	154	382	527	541	645	825	555	415	367	169	46	0	0	0	0	0	0	193	825	0
7	0	0	0	0	0	0	7	71	166	236	350	755	697	633	538	294	169	26	0	0	0	0	0	0	164	755	0
8	0	0	0	0	0	0	1	16	55	35	55	105	117	178	414	155	27	22	0	0	0	0	0	0	49	414	0
9	0	0	0	0	0	0	8	23	59	102	234	280	262	474	491	315	239	57	0	0	0	0	0	0	106	491	0
10	0	0	0	0	0	0	14	114	393	579	714	792	804	774	638	444	235	43	0	0	0	0	0	0	231	804	0
11	0	0	0	0	0	0	10	124	388	570	706	781	790	737	665	478	235	49	0	0	0	0	0	0	231	790	0
12	0	0	0	0	0	0	6	123	384	572	714	793	800	739	606	442	228	41	0	0	0	0	0	0	227	800	0
13	0	0	0	0	0	0	4	131	423	617	755	830	832	758	628	446	230	41	0	0	0	0	0	0	237	832	0
14	0	0	0	0	0	0	3	125	413	602	737	808	816	748	623	439	227	38	0	0	0	0	0	0	233	816	0
15	0	0	0	0	0	0	6	126	315	593	684	734	777	484	420	297	161	24	0	0	0	0	0	0	193	777	0
16	0	0	0	0	0	0	4	115	383	571	706	787	797	725	598	426	217	36	0	0	0	0	0	0	224	797	0
17	0	0	0	0	0	0	1	39	161	135	100	39	252	578	566	412	212	31	0	0	0	0	0	0	105	578	0
18	0	0	0	0	0	0	3	106	380	562	699	777	777	639	486	305	112	19	0	0	0	0	0	0	203	777	0
19	0	0	0	0	0	0	4	83	274	547	627	720	543	214	70	12	1	2	0	0	0	0	0	0	129	720	0
20	0	0	0	0	0	0	4	101	368	553	686	752	757	687	571	390	189	24	0	0	0	0	0	0	212	757	0
21	0	0	0	0	0	0	3	94	361	545	679	740	735	606	564	325	158	36	0	0	0	0	0	0	202	740	0
22	0	0	0	0	0	0	3	90	362	546	683	750	751	683	560	383	180	20	0	0	0	0	0	0	209	751	0
23	0	0	0	0	0	0	2	86	362	546	682	752	752	685	538	271	155	20	0	0	0	0	0	0	202	752	0
24	0	0	0	0	0	0	2	83	356	542	675	747	747	682	553	378	175	17	0	0	0	0	0	0	207	747	0
25	0	0	0	0	0	0	3	80	348	531	658	722	719	566	309	226	142	14	0	0	0	0	0	0	180	722	0
26	0	0	0	0	0	0	3	80	312	512	642	710	719	645	529	285	108	9	0	0	0	0	0	0	190	719	0
27	0	0	0	0	0	0	1	73	295	522	655	797	739	669	541	363	164	14	0	0	0	0	0	0	201	797	0
28	0	0	0	0	0	0	2	71	345	529	661	728	728	661	540	363	164	14	0	0	0	0	0	0	200	728	0
29	0	0	0	0	0	0	1	69	347	533	664	729	724	657	532	358	157	12	0	0	0	0	0	0	199	729	0
30	0	0	0	0	0	0	1	69	348	535	669	736	729	606	335	233	106	15	0	0	0	0	0	0	183	736	0
31	0	0	0	0	0	0	2	72	278	486	441	685	641	632	480	336	148	12	0	0	0	0	0	0	175	685	0
Avg	0	0	0	0	0	0	5	104	338	510	624	709	714	646	535	362	185	34	0	0	0	0	0	0	199	--	--
Max	0	0	0	0	0	0	14	193	453	650	796	874	885	816	688	508	290	79	0	0	0	0	0	0	--	885	--
Min	0	0	0	0	0	0	1	16	55	35	55	39	117	178	70	12	1	2	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Nov 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	1	26	269	384	662	680	714	612	514	340	152	13	0	0	0	0	0	0	182	714	0
2	0	0	0	0	0	0	1	55	165	312	230	254	345	518	531	366	149	10	0	0	0	0	0	0	122	531	0
3	0	0	0	0	0	0	1	56	329	514	649	722	721	649	525	347	144	10	0	0	0	0	0	0	194	722	0
4	0	0	0	0	0	0	1	52	331	517	651	718	716	641	522	341	142	8	0	0	0	0	0	0	193	718	0
5	0	0	0	0	0	0	1	47	326	514	650	712	714	648	522	340	139	8	0	0	0	0	0	0	192	714	0
6	0	0	0	0	0	0	1	41	321	503	634	707	705	638	511	333	134	8	0	0	0	0	0	0	189	707	0
7	0	0	0	0	0	0	0	38	315	504	635	705	702	630	507	333	133	8	0	0	0	0	0	0	188	705	0
8	0	0	0	0	0	0	0	35	313	496	627	691	691	625	500	324	129	7	0	0	0	0	0	0	185	691	0
9	0	0	0	0	0	0	0	33	303	486	617	682	678	614	495	319	123	5	0	0	0	0	0	0	181	682	0
10	0	0	0	0	0	0	0	30	298	479	613	678	676	611	499	279	118	5	0	0	0	0	0	0	179	678	0
11	0	0	0	0	0	0	0	29	289	470	600	668	671	606	483	309	106	5	0	0	0	0	0	0	177	671	0
12	0	0	0	0	0	0	0	17	209	457	537	715	558	602	479	308	100	4	0	0	0	0	0	0	166	715	0
13	0	0	0	0	0	0	2	45	250	271	405	583	637	586	452	288	83	4	0	0	0	0	0	0	150	637	0
14	0	0	0	0	0	0	0	32	286	486	305	285	225	306	265	100	71	2	0	0	0	0	0	0	99	486	0
15	0	0	0	0	0	0	0	25	268	403	586	612	605	524	476	315	89	4	0	0	0	0	0	0	163	612	0
16	0	0	0	0	0	0	0	14	56	411	447	677	688	630	503	322	95	2	0	0	0	0	0	0	160	688	0
17	0	0	0	0	0	0	0	16	294	488	623	672	672	577	493	314	93	4	0	0	0	0	0	0	177	672	0
18	0	0	0	0	0	0	0	17	285	479	612	682	681	614	485	312	80	2	0	0	0	0	0	0	177	682	0
19	0	0	0	0	0	0	0	36	220	411	593	646	662	545	314	273	91	3	0	0	0	0	0	0	158	662	0
20	0	0	0	0	0	0	0	14	259	444	574	644	648	585	467	297	76	2	0	0	0	0	0	0	167	648	0
21	0	0	0	0	0	0	0	9	83	155	266	298	547	452	474	250	61	4	0	0	0	0	0	0	108	547	0
22	0	0	0	0	0	0	0	13	245	431	565	631	637	582	473	217	74	2	0	0	0	0	0	0	161	637	0
23	0	0	0	0	0	0	0	34	199	395	549	606	627	583	437	284	89	2	0	0	0	0	0	0	158	627	0
24	0	0	0	0	0	0	0	12	232	440	579	650	659	599	473	299	86	1	0	0	0	0	0	0	168	659	0
25	0	0	0	0	0	0	0	10	229	440	574	641	645	583	460	291	87	3	0	0	0	0	0	0	165	645	0
26	0	0	0	0	0	0	0	11	214	414	550	622	630	570	452	285	84	2	0	0	0	0	0	0	160	630	0
27	0	0	0	0	0	0	0	9	216	425	560	630	637	578	457	286	87	2	0	0	0	0	0	0	162	637	0
28	0	0	0	0	0	0	0	9	211	419	557	630	635	574	452	283	82	1	0	0	0	0	0	0	161	635	0
29	0	0	0	0	0	0	0	9	205	412	544	619	624	569	448	280	85	2	0	0	0	0	0	0	158	624	0
30	0	0	0	0	0	0	0	23	159	394	536	587	510	540	443	277	84	2	0	0	0	0	0	0	148	587	0
Avg	0	0	0	0	0	0	0	26	246	432	551	622	629	580	470	297	102	5	0	0	0	0	0	0	165	--	--
Max	0	0	0	0	0	0	2	56	331	517	662	722	721	649	531	366	152	13	0	0	0	0	0	0	--	722	--
Min	0	0	0	0	0	0	0	9	56	155	230	254	225	306	265	100	61	1	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Dec 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	25	197	376	471	453	459	461	312	190	68	1	0	0	0	0	0	0	125	471	0
2	0	0	0	0	0	0	0	19	113	274	359	343	273	238	139	70	20	1	0	0	0	0	0	0	77	359	0
3	0	0	0	0	0	0	0	7	120	228	366	254	296	460	194	77	29	0	0	0	0	0	0	0	85	460	0
4	0	0	0	0	0	0	0	2	8	28	46	138	188	324	365	219	77	5	0	0	0	0	0	0	58	365	0
5	0	0	0	0	0	0	0	20	169	358	452	315	463	405	320	234	65	1	0	0	0	0	0	0	117	463	0
6	0	0	0	0	0	0	0	12	60	142	197	176	134	147	53	31	48	1	0	0	0	0	0	0	42	197	0
7	0	0	0	0	0	0	0	8	168	381	523	595	575	419	300	192	54	2	0	0	0	0	0	0	134	595	0
8	0	0	0	0	0	0	0	28	147	298	285	574	397	345	194	102	31	0	0	0	0	0	0	0	100	574	0
9	0	0	0	0	0	0	0	13	200	390	509	589	587	531	418	266	73	2	0	0	0	0	0	0	149	589	0
10	0	0	0	0	0	0	0	9	149	354	491	560	570	515	428	259	88	2	0	0	0	0	0	0	143	570	0
11	0	0	0	0	0	0	0	13	159	338	460	519	571	531	400	260	89	1	0	0	0	0	0	0	139	571	0
12	0	0	0	0	0	0	0	9	125	340	487	571	586	521	250	154	47	0	0	0	0	0	0	0	129	586	0
13	0	0	0	1	0	0	0	2	20	81	144	122	274	205	137	141	99	6	0	0	0	0	0	0	51	274	0
14	0	0	0	0	0	0	0	6	144	353	417	355	612	483	463	251	83	2	0	0	0	0	0	0	132	612	0
15	0	0	0	0	0	0	0	17	131	331	481	462	292	243	233	214	79	2	0	0	0	0	0	0	103	481	0
16	0	0	0	0	0	0	0	5	61	142	319	330	344	485	417	218	96	1	0	0	0	0	0	0	101	485	0
17	0	0	0	0	0	0	0	5	11	24	55	172	278	141	159	112	31	1	0	0	0	0	0	0	41	278	0
18	0	0	0	0	0	0	0	7	68	135	360	306	268	373	395	227	41	5	0	0	0	0	0	0	91	395	0
19	0	0	0	0	0	0	0	6	138	345	492	580	604	553	426	246	82	4	0	0	0	0	0	0	145	604	0
20	0	0	0	0	0	0	0	5	131	352	495	575	576	429	352	251	96	3	0	0	0	0	0	0	136	576	0
21	0	0	0	0	0	0	0	6	66	325	475	529	587	513	418	254	84	3	0	0	0	0	0	0	136	587	0
22	0	0	0	0	0	0	0	9	124	328	474	559	579	536	430	277	100	3	0	0	0	0	0	0	142	579	0
23	0	0	0	0	0	0	0	4	128	355	503	587	609	566	459	300	111	3	0	0	0	0	0	0	151	609	0
24	0	0	0	0	0	0	0	5	132	369	514	596	616	567	446	214	75	2	0	0	0	0	0	0	147	616	0
25	0	0	0	0	0	0	0	7	114	195	238	486	430	294	137	96	41	3	0	0	0	0	0	0	85	486	0
26	0	0	0	0	0	0	0	4	123	353	502	590	611	568	461	303	116	4	0	0	0	0	0	0	152	611	0
27	0	0	0	0	0	0	0	5	123	358	507	597	614	567	460	301	117	4	0	0	0	0	0	0	152	614	0
28	0	0	0	0	0	0	0	4	124	339	472	569	606	563	391	176	47	2	0	0	0	0	0	0	137	606	0
29	0	0	0	0	0	0	0	4	123	364	509	597	619	578	471	311	123	5	0	0	0	0	0	0	154	619	0
30	0	0	0	0	0	0	0	4	119	349	500	593	617	578	473	308	117	4	0	0	0	0	0	0	153	617	0
31	0	0	0	0	0	0	0	5	104	178	107	30	42	73	89	67	30	2	0	0	0	0	0	0	30	178	0
Avg	0	0	0	0	0	0	0	9	116	283	394	443	461	426	329	204	73	2	0	0	0	0	0	0	114	--	--
Max	0	0	0	1	0	0	0	28	200	390	523	597	619	578	473	311	123	6	0	0	0	0	0	0	--	619	--
Min	0	0	0	0	0	0	0	2	8	24	46	30	42	73	53	31	20	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Oct 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	35	31	29	32	32	34	35	30	25	24	20	19	21	20	20	19	20	21	25	27	32	32	33	36	27	36	19
2	36	36	35	34	38	36	28	26	19	18	17	17	15	14	13	11	10	10	18	22	22	22	18	16	22	38	10
3	13	15	17	15	14	12	14	15	13	12	12	12	11	10	9	9	9	9	8	9	11	10	12	14	12	17	8
4	15	15	15	15	15	16	17	16	14	13	13	12	11	11	11	11	11	12	15	18	20	22	22	24	15	24	11
5	23	25	26	28	27	28	29	27	21	21	19	20	17	16	14	14	15	15	18	21	24	23	23	24	22	29	14
6	23	25	26	27	28	30	32	29	26	22	20	20	19	20	20	19	19	22	25	29	31	32	30	30	25	32	19
7	32	31	31	29	24	26	28	28	24	23	24	19	19	18	17	21	23	26	29	31	32	35	36	39	27	39	17
8	41	40	46	45	45	43	62	62	62	64	82	85	85	80	70	71	76	74	87	95	97	99	98	96	71	99	40
9	96	97	98	99	99	97	96	96	96	94	92	90	84	75	70	69	66	67	76	81	80	83	81	82	86	99	66
10	85	88	89	86	85	85	86	77	66	61	58	57	56	55	55	55	52	54	63	63	73	71	72	73	69	89	52
11	70	69	66	64	65	66	67	67	59	54	48	43	39	40	45	40	39	44	50	59	61	64	66	67	56	70	39
12	67	69	72	72	69	73	73	69	55	48	47	41	37	33	32	28	29	24	26	32	34	35	31	19	46	73	19
13	14	12	11	12	12	14	14	14	14	15	16	17	15	13	11	12	12	16	23	27	26	21	20	25	16	27	11
14	26	19	20	21	20	20	22	20	19	17	17	16	15	16	15	14	14	14	15	15	16	17	17	19	18	26	14
15	19	19	18	19	19	19	19	19	18	18	16	16	16	19	19	21	25	28	31	32	32	33	33	39	23	39	16
16	40	40	43	44	46	46	49	45	40	33	30	26	22	21	22	20	21	24	34	37	39	43	44	43	35	49	20
17	41	43	42	40	42	36	38	35	38	39	40	40	29	26	25	22	21	28	35	37	33	33	34	31	34	43	21
18	29	30	32	36	36	34	39	36	33	25	24	22	18	16	17	22	26	30	34	37	37	35	38	35	30	39	16
19	36	37	34	34	35	39	44	44	41	35	33	32	31	34	34	48	75	73	76	62	53	47	49	56	45	76	31
20	50	50	51	49	49	50	54	50	48	46	43	40	38	35	35	34	34	39	41	40	40	45	42	42	43	54	34
21	44	44	45	46	48	51	54	57	48	45	43	41	39	37	37	36	36	39	48	46	53	47	51	45	45	57	36
22	45	48	50	53	54	55	51	49	46	41	39	36	30	27	26	25	24	31	38	43	46	47	47	48	42	55	24
23	46	47	49	51	50	51	44	43	37	34	32	31	26	22	21	21	21	28	35	38	40	37	38	37	36	51	21
24	38	36	34	35	34	35	35	35	31	29	27	26	22	18	20	18	17	25	29	35	36	35	40	39	30	40	17
25	33	33	33	37	36	36	37	35	31	28	26	23	22	22	23	24	24	28	33	36	35	35	36	36	31	37	22
26	38	43	44	47	51	54	53	50	43	41	39	36	38	35	32	34	36	36	44	48	50	51	56	55	44	56	32
27	58	59	58	58	58	60	64	64	51	45	42	39	40	37	35	37	36	38	38	41	44	46	45	46	47	64	35
28	47	50	49	49	49	50	47	45	39	35	30	30	28	27	24	25	27	32	35	40	41	42	44	43	39	50	24
29	44	45	43	46	47	43	41	36	29	26	24	21	20	20	20	20	18	13	17	24	22	18	20	22	28	47	13
30	24	24	23	23	23	23	24	24	22	21	20	17	13	13	12	13	13	19	20	19	19	18	17	18	19	24	12
31	18	19	19	20	21	21	23	24	24	24	24	24	23	24	25	25	27	29	31	32	33	34	35	35	26	35	18
Avg	40	40	40	41	41	41	42	41	37	34	33	31	29	27	27	27	28	31	35	38	39	39	40	40	36	--	--
Max	96	97	98	99	99	97	96	96	96	94	92	90	85	80	70	71	76	74	87	95	97	99	98	96	--	99	--
Min	13	12	11	12	12	12	14	14	13	12	12	12	11	10	9	9	9	9	8	9	11	10	12	14	--	--	8

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

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Dec 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	30	28	29	29	29	31	28	25	22	21	20	19	19	18	18	20	20	17	19	17	18	17	23	32	17
2	16	18	18	17	15	15	15	16	15	15	15	15	15	13	13	16	18	19	20	22	36	42	48	56	21	56	13
3	62	65	65	67	66	65	63	62	59	55	50	49	49	45	45	56	60	60	60	58	57	60	56	57	58	67	45
4	61	82	92	91	96	95	95	97	98	98	98	98	95	89	81	83	84	90	92	92	93	96	96	95	91	98	61
5	90	88	83	86	79	78	72	72	65	55	53	54	53	51	49	45	48	50	48	51	47	48	45	46	61	90	45
6	48	50	51	50	51	50	48	46	46	45	43	43	44	42	43	40	42	44	44	42	46	46	45	47	46	51	40
7	52	48	47	48	57	60	59	50	48	40	35	33	31	31	30	30	31	33	32	41	47	47	49	49	43	60	30
8	50	45	42	37	40	38	35	36	34	31	32	31	30	30	30	31	29	30	29	31	32	32	33	34	34	50	29
9	35	36	36	40	38	41	41	37	34	31	32	31	30	28	29	38	40	45	50	52	57	55	59	61	41	61	28
10	59	60	58	60	58	58	58	61	56	48	43	39	38	36	42	45	48	55	61	63	68	61	61	64	54	68	36
11	69	71	72	62	67	57	62	64	49	52	47	37	27	29	31	34	39	44	48	43	41	39	40	40	48	72	27
12	39	38	35	37	34	31	34	35	36	34	31	32	34	33	33	35	35	39	41	48	48	54	59	65	39	65	31
13	76	88	87	84	84	91	96	97	98	90	89	91	86	85	83	83	69	70	73	77	84	79	81	83	84	98	69
14	77	80	85	85	87	88	86	84	79	65	62	61	56	56	58	61	63	67	69	75	77	80	80	78	73	88	56
15	77	70	66	68	69	69	61	65	64	54	41	36	34	33	26	25	26	31	27	24	25	29	32	33	45	77	24
16	37	39	39	41	41	41	41	54	57	53	38	36	36	35	45	46	61	66	73	73	70	70	73	72	52	73	35
17	69	75	75	84	92	93	97	97	95	95	95	89	81	80	83	81	79	80	85	83	86	90	87	91	86	97	69
18	82	84	91	81	79	79	76	75	74	74	72	65	67	67	58	62	73	73	74	82	85	82	82	83	76	91	58
19	83	75	72	72	67	64	64	64	58	49	46	40	37	34	35	34	45	58	69	66	65	60	58	54	57	83	34
20	52	51	52	56	60	57	54	59	56	42	36	36	41	45	45	44	46	53	57	62	65	66	67	68	53	68	36
21	68	69	71	69	72	71	56	61	61	50	47	45	46	48	43	48	53	57	59	62	66	70	68	69	60	72	43
22	72	72	73	74	75	74	75	75	70	56	53	51	53	53	54	54	57	62	65	66	72	74	76	77	66	77	51
23	77	78	78	78	80	57	43	43	37	24	23	22	20	16	14	14	13	17	21	21	25	23	23	22	36	80	13
24	19	20	19	20	16	13	12	15	14	14	9	12	13	14	16	19	23	23	20	21	18	18	19	19	17	23	9
25	21	23	26	30	28	28	27	26	30	23	22	20	23	26	32	35	34	39	43	47	50	52	50	45	32	52	20
26	41	43	41	47	48	44	46	43	37	29	27	26	25	26	27	27	27	33	35	42	45	47	48	49	38	49	25
27	50	42	47	46	49	52	51	46	33	31	29	27	26	24	22	21	26	30	33	39	42	39	38	35	37	52	21
28	38	40	40	37	38	35	32	32	29	24	22	19	18	18	21	25	27	29	31	37	41	42	43	44	32	44	18
29	40	36	34	36	32	36	40	40	35	25	23	21	19	14	14	20	25	30	35	36	33	29	20	23	29	40	14
30	28	31	31	32	32	29	31	33	27	23	17	15	14	12	13	13	16	21	23	27	27	33	33	31	25	33	12
31	35	31	26	30	26	31	36	37	41	48	57	94	94	91	91	87	87	92	93	94	97	98	99	99	67	99	26
Avg	53	54	54	55	55	54	53	53	50	45	42	42	41	39	40	41	43	47	49	51	54	54	54	55	49	--	--
Max	90	88	92	91	96	95	97	97	98	98	98	98	95	91	91	87	87	92	93	94	97	98	99	99	--	99	--
Min	16	18	18	17	15	13	12	15	14	14	9	12	13	12	13	13	13	17	20	17	18	17	18	17	--	--	9

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Oct 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	0.008	0	0	0.051	0.139	0.072	0.052	0.02	0	0	0	0.004	0.02	0.185	0.285	0.008	0	0	0.844	0.285	0
9	0.004	0	0.103	0.016	0.028	0.016	0	0.091	0.004	0	0.004	0.004	0.043	0	0	0	0	0	0	0	0	0	0	0	0.313	0.103	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	0.658	0.076	0.102	0	0	0	0	0	0.836	0.658	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	0.004	0	0.103	0.016	0.028	0.016	0.008	0.091	0.004	0.051	0.143	0.076	0.095	0.02	0	0	0.658	0.08	0.122	0.185	0.285	0.008	0	0	1.99	--	--
Max	0.004	0	0.103	0.016	0.028	0.016	0.008	0.091	0.004	0.051	0.139	0.072	0.052	0.02	0	0	0.658	0.076	0.102	0.185	0.285	0.008	0	0	--	0.658	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Nov 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	0.075	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.075	0.075	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0.075	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.075	--	--
Max	0	0.075	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	0.075	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Dec 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	0.004	0	0	0	0	0	0	0	0	0.004	0.004	0
4	0.012	0.084	0.162	0.004	0.032	0.095	0.138	0.15	0.22	0.201	0.162	0.024	0.004	0	0.004	0	0	0	0	0	0	0	0	0	1.29	0.22	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	0.008	0.04	0	0	0	0.056	0.102	0.154	0.173	0.048	0.02	0.032	0.004	0	0	0	0	0	0.004	0.004	0	0	0	0	0.645	0.173	0
14	0	0	0	0	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004	0.004	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	0.024	0.032	0.004	0.02	0.02	0.028	0	0.008	0	0	0.008	0.004	0	0	0.004	0.004	0.016	0.004	0	0	0	0.176	0.032	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.008	0	0	0	0	0	0	0	0.008	0.008	0
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	0.004	0.084	0.087	0.088	0.028	0.008	0.008	0.028	0.032	0.06	0.06	0.056	0.06	0.072	0.675	0.088	0
Total	0.02	0.124	0.162	0.028	0.068	0.155	0.26	0.324	0.421	0.249	0.194	0.14	0.095	0.096	0.036	0.012	0.016	0.032	0.04	0.08	0.064	0.056	0.06	0.072	2.8	--	--
Max	0.012	0.084	0.162	0.024	0.032	0.095	0.138	0.154	0.22	0.201	0.162	0.084	0.087	0.088	0.028	0.008	0.008	0.028	0.032	0.06	0.06	0.056	0.06	0.072	--	0.22	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Oct 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	680	680	680	680	680	680	680	679	679	679	679	679	680	680	680	681	681	681	680	681	679
2	681	681	681	682	682	683	683	684	684	685	685	685	684	684	683	683	683	683	683	684	684	684	684	684	683	685	681
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Avg	682	682	682	682	682	682	683	683	683	684	684	683	683	682	682	682	682	682	682	682	682	682	682	682	682	--	--
Max	685	685	685	685	685	685	685	685	686	686	686	686	685	684	684	684	684	684	684	684	685	685	685	685	--	686	--
Min	679	679	679	679	679	679	680	680	680	680	680	680	680	679	679	679	679	679	679	679	679	679	679	679	--	--	679

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Nov 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	680	680	680	680	680	680	681	681	682	682	682	681	681	680	680	680	680	680	680	681	681	681	681	681	681	682	680
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Avg	684	684	684	684	684	684	684	684	685	685	685	685	684	684	683	683	683	683	683	684	684	684	684	684	684	--	--
Max	691	691	691	691	691	691	691	692	693	693	692	692	691	690	690	689	689	690	689	690	690	690	690	691	--	693	--
Min	680	679	679	679	679	680	680	680	681	681	681	680	680	679	679	679	679	679	679	679	679	680	680	680	--	--	679

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Dec 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	686	686	686	685	685	686	686	687	687	687	687	687	686	685	685	685	684	685	685	685	685	684	684	684	686	687	684
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Max	688	688	688	688	688	687	687	688	688	688	688	687	687	687	687	687	687	688	688	688	689	689	689	688	--	689	--
Min	678	678	677	677	677	676	676	676	676	677	677	676	676	676	676	676	675	676	676	676	677	677	677	677	--	--	675

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

SAROAD for Resolution, East_Plant

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

Month: Oct 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	11.4	8.0	6.8	6.8	5.7	5.7	7.9	10.2	14.9	13.8	18.5	13.9	15.1	15.1	12.8	14.0	15.1	16.2	15.0	15.0	13.8	11.5	12.6	9.2	12.0	18.5	5.7
2	9.2	12.6	12.5	25.0	11.3	20.4	42.9	69.0	30.6	6.8	10.3	13.8	15.0	16.2	12.8	9.3	23.3	7.0	5.8	4.6	2.3	6.9	10.3	6.8	16.0	69.0	2.3
3	3.4	3.4	4.5	5.7	3.4	2.3	4.5	6.8	8.0	9.2	11.5	15.1	24.5	--	10.6	7.1	8.2	11.7	11.6	8.1	5.8	6.9	11.5	13.8	8.6	24.5	2.3
4	8.0	4.6	4.6	4.5	3.4	1.1	4.5	9.1	23.0	22.0	12.8	18.7	3.5	3.5	7.1	11.8	10.6	10.5	11.7	12.8	13.9	11.6	9.3	8.1	9.6	23.0	1.1
5	8.1	6.9	10.3	13.7	12.5	10.2	8.0	17.1	18.4	15.0	10.4	9.3	10.5	9.4	9.4	7.0	9.4	10.5	9.3	12.7	12.7	11.5	20.6	10.3	11.4	20.6	6.9
6	6.9	4.6	5.7	8.0	10.2	10.2	10.2	9.1	11.5	11.6	12.7	16.3	19.8	14.0	14.0	14.0	14.0	12.8	18.5	13.8	14.9	17.2	12.6	4.6	12.0	19.8	4.6
7	2.3	5.7	6.9	4.6	3.4	4.6	4.6	9.1	18.2	13.7	28.8	18.5	10.5	10.5	11.7	14.0	18.6	17.4	15.0	24.2	19.5	26.4	30.9	35.5	14.8	35.5	2.3
8	22.9	44.6	35.3	29.5	23.8	17.0	12.4	6.7	6.7	7.9	6.7	6.7	2.3	3.4	6.8	6.8	5.7	5.7	4.5	5.7	5.7	3.4	3.4	0.0	11.4	44.6	0.0
9	-3.4	-3.4	-1.1	2.3	5.7	4.5	2.3	3.4	6.8	9.0	9.0	7.9	7.9	7.9	9.1	9.1	5.7	5.7	7.9	7.9	6.8	7.9	10.1	10.1	5.8	10.1	-3.4
10	10.1	11.2	12.3	10.1	10.0	10.1	12.3	12.3	10.1	9.1	10.2	6.8	6.9	11.5	6.9	6.9	10.3	13.7	16.0	19.4	18.3	14.8	11.3	10.2	11.3	19.4	6.8
11	12.4	10.2	10.2	13.5	12.4	10.1	12.4	14.7	13.7	13.7	16.1	13.9	13.9	11.6	19.7	17.4	16.2	13.9	12.7	11.5	21.7	19.3	17.0	17.0	14.4	21.7	10.1
12	14.8	13.6	12.5	11.3	9.1	10.2	13.6	20.4	17.1	16.0	16.1	16.1	15.0	16.2	20.9	27.9	23.2	47.5	52.0	38.0	9.2	11.5	60.5	51.1	22.7	60.5	9.1
13	32.9	46.4	134.0	124.0	67.7	42.7	56.1	40.4	20.3	22.6	26.1	18.3	12.6	10.4	12.7	13.9	11.5	18.3	9.1	7.9	7.9	10.2	7.9	6.8	31.7	134.0	6.8
14	9.1	6.8	3.4	7.9	29.3	2.3	5.6	12.4	11.3	10.2	10.3	11.5	18.5	10.4	11.6	10.5	10.5	27.7	11.5	6.9	2.3	4.6	6.8	17.1	10.8	29.3	2.3
15	11.4	8.0	5.7	10.2	11.3	12.5	11.3	10.2	10.2	11.5	28.9	11.6	19.8	21.0	16.4	16.3	32.5	18.5	18.5	10.3	12.6	14.9	12.6	11.4	14.5	32.5	5.7
16	10.3	11.4	12.6	12.6	23.9	18.2	18.2	18.2	18.3	18.5	11.6	11.6	21.0	12.8	18.7	17.5	23.2	18.5	26.5	19.5	17.2	19.4	17.1	14.8	17.1	26.5	10.3
17	14.8	13.6	11.4	10.2	9.1	7.9	6.8	9.0	25.0	20.5	14.8	33.0	10.3	11.5	17.4	11.6	9.3	12.7	16.1	13.7	11.4	9.1	9.1	9.1	13.2	33.0	6.8
18	6.8	5.7	7.9	4.5	3.4	4.5	5.7	6.8	6.9	8.1	10.4	9.3	7.0	7.0	10.6	12.9	11.6	19.7	15.0	13.8	9.2	4.6	4.6	8.1	8.5	19.7	3.4
19	5.7	2.3	5.7	11.4	21.7	27.4	33.0	31.9	38.9	49.5	35.8	26.7	31.4	40.6	28.9	16.1	17.0	12.3	8.9	5.6	2.3	1.1	5.6	6.7	19.4	49.5	1.1
20	5.6	6.7	5.6	5.6	7.8	7.8	5.6	2.2	3.4	3.4	3.4	5.7	6.9	11.6	13.9	--	--	--	4.6	6.9	5.7	3.4	5.7	5.7	6.1	13.9	2.2
21	2.3	2.3	5.6	7.9	6.8	6.8	9.0	7.9	6.8	5.7	3.4	6.9	12.7	10.4	10.4	15.1	11.6	8.1	21.8	4.6	6.8	6.8	5.7	5.7	8.0	21.8	2.3
22	3.4	2.3	3.4	5.7	4.5	4.5	5.7	7.9	8.0	9.2	9.2	9.2	9.3	7.0	17.4	10.4	9.3	9.2	5.8	6.9	8.0	4.5	3.4	3.4	7.0	17.4	2.3
23	5.7	6.8	4.5	4.5	7.9	4.5	5.6	7.9	8.0	9.2	--	19.6	13.9	9.3	9.3	11.6	9.3	8.1	6.9	9.1	9.1	6.8	4.6	5.7	8.2	19.6	4.5
24	5.7	4.5	3.4	3.4	4.5	6.8	5.6	3.4	6.9	13.8	15.0	22.0	12.8	15.2	15.2	12.8	11.7	9.3	8.1	12.6	12.6	8.0	6.9	8.0	9.5	22.0	3.4
25	9.1	10.2	7.9	5.7	6.8	7.9	6.8	5.7	8.0	10.4	8.1	7.0	7.0	8.2	11.7	12.8	10.5	8.2	9.3	12.7	13.8	19.6	15.0	12.7	9.8	19.6	5.7
26	10.3	12.6	14.9	14.8	11.4	13.7	15.9	10.2	11.4	16.1	13.9	13.9	29.0	11.6	12.8	12.8	17.4	13.9	17.3	21.8	21.8	17.2	16.0	18.3	15.4	29.0	10.2
27	17.1	15.9	15.9	17.0	14.7	14.7	11.3	12.5	14.8	13.7	13.8	10.4	19.6	6.9	17.3	19.6	12.7	19.5	24.0	16.0	15.9	15.8	15.8	19.1	15.6	24.0	6.9
28	18.0	15.7	14.6	13.5	14.6	15.7	15.6	13.4	33.9	17.1	13.7	12.6	31.0	18.4	18.4	16.1	15.0	17.2	18.2	20.4	13.6	12.4	9.0	10.1	16.6	33.9	9.0
29	9.0	6.7	9.0	7.8	6.7	7.8	11.2	11.2	10.2	11.4	18.3	10.4	23.1	19.7	20.9	10.4	10.4	8.1	5.7	5.7	4.6	4.6	5.7	6.8	10.2	23.1	4.6
30	6.8	5.7	9.0	9.0	4.5	4.5	7.9	9.0	12.5	13.7	12.7	11.6	11.6	10.5	8.1	10.5	15.1	24.2	13.8	11.4	10.3	10.3	10.2	8.0	10.4	24.2	4.5
31	6.8	6.8	3.4	7.9	11.4	11.3	19.2	24.9	29.6	40.2	42.7	37.1	36.0	38.4	44.3	46.7	38.4	37.1	33.5	30.0	26.5	25.3	18.4	14.9	26.3	46.7	3.4
Avg	9.6	10.1	12.8	13.5	12.2	10.6	12.6	14.0	14.9	14.6	15.2	14.4	15.4	13.3	14.8	14.1	14.6	15.4	14.7	13.2	11.5	11.2	12.6	11.9	13.2	--	--
Max	32.9	46.4	134.0	124.0	67.7	42.7	56.1	69.0	38.9	49.5	42.7	37.1	36.0	40.6	44.3	46.7	38.4	47.5	52.0	38.0	26.5	26.4	60.5	51.1	--	134.0	--
Min	-3.4	-3.4	-1.1	2.3	3.4	1.1	2.3	2.2	3.4	3.4	3.4	5.7	2.3	3.4	6.8	6.8	5.7	5.7	4.5	4.6	2.3	1.1	3.4	0.0	--	--	-3.4

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

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

Month: Nov 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	14.9	61.7	74.2	68.4	39.9	30.7	32.9	29.5	14.8	16.0	19.5	12.6	9.2	10.4	20.7	25.3	28.6	29.7	26.1	22.7	14.7	12.4	7.9	10.2	26.4	74.2	7.9
2	11.3	13.4	43.6	45.8	52.4	47.9	25.7	32.4	25.7	21.3	30.2	25.7	21.3	15.7	19.1	21.3	20.2	14.5	17.8	31.1	24.4	22.0	19.8	8.8	25.5	52.4	8.8
3	6.6	4.4	3.3	4.4	8.7	8.7	8.7	12.0	12.2	12.2	11.2	6.7	3.4	9.0	13.5	10.1	6.7	7.8	12.2	18.9	16.7	14.4	7.8	6.6	9.4	18.9	3.3
4	7.7	8.8	7.7	6.6	4.4	50.6	24.2	23.1	62.9	45.4	39.0	24.7	10.1	11.3	11.3	6.8	5.7	9.0	7.9	6.7	7.8	10.0	11.1	10.0	17.2	62.9	4.4
5	6.7	3.3	3.3	2.2	1.1	7.7	20.9	11.0	23.2	13.4	26.8	15.7	10.2	6.8	8.0	5.7	5.7	6.8	6.8	7.9	11.2	8.9	8.9	10.0	9.7	26.8	1.1
6	7.8	7.8	8.9	5.5	5.5	6.6	4.4	5.5	6.6	3.3	2.2	3.4	6.8	7.9	5.7	5.7	5.7	5.6	10.1	11.2	8.9	7.8	6.7	5.6	6.5	11.2	2.2
7	3.3	1.1	3.3	6.6	6.6	6.6	7.7	6.6	5.6	5.6	7.9	9.1	8.0	10.3	11.5	9.2	8.0	9.1	12.5	11.3	12.4	11.3	7.9	6.7	7.8	12.5	1.1
8	4.5	4.5	6.7	6.7	5.6	7.8	7.8	5.6	19.2	10.2	10.2	12.6	18.3	6.9	49.5	14.9	24.0	27.3	20.4	19.2	14.6	19.1	20.2	21.3	14.9	49.5	4.5
9	14.5	19.0	20.1	20.1	23.5	23.5	23.4	26.8	21.3	23.7	19.3	12.6	18.4	18.4	11.5	11.6	11.5	10.3	11.5	12.5	12.5	12.5	13.6	9.1	16.7	26.8	9.1
10	6.8	12.4	20.3	16.9	19.1	15.7	16.8	18.0	20.4	6.8	9.1	8.0	6.9	10.4	18.5	20.8	18.4	19.5	17.2	20.6	27.4	19.4	19.4	13.6	15.9	27.4	6.8
11	11.3	10.2	12.4	7.9	4.5	5.6	10.1	12.3	10.1	7.9	4.6	3.4	2.3	5.7	6.9	6.9	9.2	13.7	17.1	14.8	10.2	9.1	6.8	4.5	8.7	17.1	2.3
12	6.8	9.0	10.1	11.2	11.3	10.1	10.1	12.4	13.5	12.4	11.3	11.3	18.2	6.8	9.1	18.2	14.8	15.9	20.3	14.6	12.4	11.2	12.3	10.1	12.2	20.3	6.8
13	8.9	10.0	11.2	12.3	12.3	11.1	12.2	13.4	10.1	11.2	10.1	9.1	9.1	9.1	10.3	9.1	17.0	23.7	24.8	15.8	14.6	13.5	16.8	13.4	12.9	24.8	8.9
14	11.1	7.8	8.9	11.1	12.2	14.4	12.1	11.1	13.4	12.3	12.4	10.2	9.0	11.3	12.4	12.4	18.0	16.9	20.2	19.0	12.3	10.1	6.7	6.7	12.2	20.2	6.7
15	8.9	8.9	10.0	8.9	8.9	8.8	8.8	9.9	17.7	12.3	12.3	13.5	14.6	12.4	12.4	18.1	24.8	20.2	21.3	10.1	13.5	15.7	14.6	16.8	13.5	24.8	8.8
16	13.4	12.3	13.4	11.1	11.1	8.9	8.9	10.0	10.0	22.2	53.3	40.0	48.9	10.0	18.9	22.2	13.2	18.7	39.4	30.5	44.6	40.2	31.5	52.0	24.4	53.3	8.9
17	18.4	51.9	81.1	17.2	5.4	17.3	10.8	12.9	13.0	9.8	8.7	9.9	8.8	3.3	2.2	4.4	6.6	7.7	5.5	9.9	13.1	13.1	12.0	8.7	14.7	81.1	2.2
18	6.5	5.4	3.3	4.3	6.5	6.5	8.7	6.5	3.3	7.7	9.9	8.8	8.9	10.0	7.8	5.6	7.8	8.8	7.7	7.7	4.4	3.3	5.5	3.3	6.6	10.0	3.3
19	5.5	7.7	5.5	6.6	6.6	5.5	7.6	6.5	3.3	7.7	12.2	10.0	7.9	6.8	18.1	6.8	10.1	14.5	13.4	10.0	7.7	8.8	8.8	6.6	8.5	18.1	3.3
20	6.6	6.6	4.4	5.5	5.5	5.5	7.7	7.6	20.9	10.0	13.4	11.2	30.4	13.6	16.9	13.6	14.6	13.4	20.1	18.9	16.6	17.7	11.1	10.0	12.6	30.4	4.4
21	7.7	6.6	6.6	8.8	8.8	8.8	10.0	8.8	8.8	11.1	12.3	10.1	10.1	7.9	5.7	6.8	7.9	20.2	18.9	15.5	11.1	7.8	8.9	7.7	9.9	20.2	5.7
22	7.7	9.9	7.7	9.9	9.8	8.7	6.6	6.6	8.8	5.6	7.8	11.2	14.6	16.9	19.1	18.0	23.5	30.1	32.3	21.1	25.5	16.6	16.6	14.5	14.5	32.3	5.6
23	11.1	10.0	12.2	22.2	18.8	19.9	22.0	20.9	18.8	14.4	22.2	30.0	29.1	23.5	31.4	11.2	11.2	18.9	7.7	17.7	16.5	15.3	17.4	17.4	18.3	31.4	7.7
24	21.8	12.0	9.7	8.6	7.6	4.3	3.3	2.2	5.5	6.6	9.9	8.9	6.7	7.7	7.7	11.1	11.1	17.6	19.7	13.2	27.3	12.0	18.5	22.7	11.5	27.3	2.2
25	13.0	25.9	23.7	18.3	16.1	18.2	16.0	19.3	8.6	19.5	14.2	12.1	11.0	11.1	8.9	6.6	7.7	8.8	8.8	8.7	6.6	5.4	4.4	5.4	12.4	25.9	4.4
26	3.3	3.3	5.4	4.4	4.3	4.4	6.5	9.8	18.8	15.6	12.3	6.8	6.8	8.0	5.7	9.1	14.8	13.6	12.4	11.3	4.5	1.1	5.6	7.8	8.1	18.8	1.1
27	6.7	5.6	2.2	4.5	5.6	6.7	6.7	8.9	22.3	14.5	19.1	12.4	13.6	12.5	11.4	10.3	6.8	7.9	9.0	4.5	4.5	6.7	5.6	5.6	8.9	22.3	2.2
28	6.7	5.6	8.9	7.8	7.8	7.8	5.6	6.7	5.6	9.0	10.2	30.7	12.6	8.1	5.8	4.6	4.6	5.7	5.7	3.4	4.5	5.6	6.8	5.6	7.7	30.7	3.4
29	3.4	2.3	5.6	5.6	6.7	6.7	4.5	5.6	5.6	9.0	9.1	6.9	8.0	5.7	6.9	8.0	8.0	10.2	12.4	12.4	9.0	6.7	18.0	13.4	7.9	18.0	2.3
30	12.3	27.9	11.2	10.1	6.7	6.7	10.0	7.8	5.6	10.1	10.2	9.0	10.2	11.4	10.2	8.0	12.5	29.3	22.5	14.6	11.2	11.1	11.1	12.2	12.2	29.3	5.6
Avg	9.2	12.5	14.8	12.6	11.4	13.1	12.0	12.3	14.5	12.9	15.0	13.2	13.1	10.3	13.2	11.4	12.6	15.2	16.1	14.5	14.0	12.3	12.1	11.5	12.9	--	--
Max	21.8	61.7	81.1	68.4	52.4	50.6	32.9	32.4	62.9	45.4	53.3	40.0	48.9	23.5	49.5	25.3	28.6	30.1	39.4	31.1	44.6	40.2	31.5	52.0	--	81.1	--
Min	3.3	1.1	2.2	2.2	1.1	4.3	3.3	2.2	3.3	3.3	2.2	3.4	2.3	3.3	2.2	4.4	4.6	5.6	5.5	3.4	4.4	1.1	4.4	3.3	--	--	1.1

SAROAD for Resolution, East_Plant

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

Month: Dec 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	14.4	12.1	11.0	7.7	9.9	9.9	9.8	10.9	19.9	13.4	19.0	10.1	18.0	19.1	16.9	7.9	10.1	19.0	23.4	13.4	10.1	8.9	11.1	12.3	13.3	23.4	7.7
2	20.1	6.7	6.7	11.1	14.5	12.3	12.3	12.2	13.4	22.3	13.5	14.6	19.2	18.1	11.3	32.9	11.3	13.5	10.1	6.7	8.9	7.8	9.9	6.6	13.2	32.9	6.6
3	4.4	6.6	7.7	9.9	7.7	8.8	12.2	7.7	8.9	8.9	5.6	5.6	4.5	2.3	4.6	6.8	5.6	2.3	4.5	5.6	5.6	7.9	6.7	6.7	6.6	12.2	2.3
4	5.6	5.6	5.6	4.5	4.5	1.1	0.0	2.2	3.3	1.1	0.0	0.0	2.2	3.3	2.2	4.5	3.3	5.6	8.9	6.7	5.5	4.4	2.2	3.3	3.6	8.9	0.0
5	6.6	4.4	2.2	4.4	6.6	7.7	5.5	2.2	2.2	2.2	6.6	6.7	5.6	7.8	8.9	7.8	6.7	6.7	6.6	5.5	6.6	7.7	5.5	3.3	5.7	8.9	2.2
6	4.4	4.4	2.2	5.5	6.6	5.5	5.5	6.6	--	3.3	3.3	4.4	4.4	8.9	10.0	4.5	3.3	3.3	3.3	7.8	10.0	5.5	2.2	0.0	5.0	10.0	0.0
7	1.1	5.5	5.5	2.2	1.1	4.4	7.7	6.6	4.4	5.6	27.9	12.3	19.1	22.5	18.0	28.1	12.3	9.0	6.7	7.8	10.0	10.0	7.8	6.7	10.1	28.1	1.1
8	6.7	17.8	11.1	11.1	8.9	6.6	6.6	7.7	7.8	7.8	6.7	7.9	10.1	18.0	6.8	6.8	7.9	11.2	9.0	4.5	6.7	10.1	10.0	8.9	9.0	18.0	4.5
9	7.8	6.7	8.9	10.0	7.8	10.0	13.3	13.3	12.3	9.0	10.1	12.5	11.4	25.1	16.0	28.5	15.9	14.7	13.5	13.5	12.3	9.0	9.0	10.1	12.5	28.5	6.7
10	10.0	13.4	13.4	12.3	13.4	16.7	17.8	11.1	13.4	14.6	19.2	15.8	32.9	16.0	18.2	14.8	18.2	20.4	14.6	21.4	17.9	6.7	7.8	10.1	15.4	32.9	6.7
11	10.0	12.2	18.9	10.0	8.9	9.9	14.4	12.1	10.0	17.9	11.2	9.0	7.9	10.2	11.3	12.5	10.2	10.1	12.3	12.2	11.1	10.0	8.9	6.7	11.2	18.9	6.7
12	5.6	5.6	7.8	6.7	5.6	6.7	6.7	6.6	6.7	8.9	18.0	9.0	--	12.5	14.8	19.3	6.8	9.0	9.0	9.0	11.2	12.3	22.2	18.9	10.4	22.2	5.6
13	16.6	10.0	8.9	6.6	7.7	4.4	-2.2	0.0	1.1	-1.1	0.0	0.0	0.0	-1.1	0.0	1.1	1.1	2.2	4.4	6.6	2.2	0.0	2.2	4.4	3.1	16.6	-2.2
14	4.4	4.4	4.3	2.2	3.2	6.5	7.5	6.5	6.5	6.5	4.4	2.2	0.0	0.0	1.1	1.1	3.3	5.5	3.3	3.3	4.3	3.2	4.3	4.3	3.8	7.5	0.0
15	2.2	3.2	4.3	5.4	3.2	2.2	3.2	3.2	4.4	2.2	2.2	2.2	1.1	-1.1	2.2	7.8	5.5	3.3	2.2	4.4	6.6	4.4	3.3	2.2	3.3	7.8	-1.1
16	4.4	4.4	3.3	3.3	3.3	3.3	5.5	7.7	4.4	3.3	2.2	0.0	3.3	7.9	12.3	14.5	13.3	10.0	7.7	9.9	8.8	4.4	6.6	13.2	6.5	14.5	0.0
17	18.6	14.3	17.5	18.5	6.5	9.8	10.9	6.5	3.3	1.1	0.0	2.2	5.4	4.4	3.3	2.2	3.3	4.4	2.2	3.3	4.3	4.3	1.1	1.1	6.2	18.6	0.0
18	3.3	1.1	2.2	4.3	4.3	1.1	1.1	2.2	4.3	6.5	4.4	3.3	4.4	2.2	2.2	3.3	4.4	6.5	3.3	1.1	3.2	5.4	5.4	4.3	3.5	6.5	1.1
19	3.2	0.0	-1.1	3.2	4.3	2.2	2.1	2.1	2.2	--	2.2	2.2	5.5	7.7	4.4	2.2	3.3	3.3	6.5	7.6	5.4	4.3	7.6	8.7	3.9	8.7	-1.1
20	6.5	5.4	6.5	6.5	6.5	4.3	6.5	7.5	4.3	4.4	4.4	5.5	4.4	1.1	4.4	8.9	7.7	6.6	6.6	4.4	4.4	3.3	4.4	6.5	5.5	8.9	1.1
21	5.5	3.3	2.2	1.1	2.2	4.3	3.3	2.2	3.3	4.4	6.6	6.6	3.3	4.4	5.5	5.5	7.7	11.0	16.4	12.0	10.9	9.9	9.8	8.8	6.3	16.4	1.1
22	7.7	8.8	12.0	12.0	12.0	12.0	8.7	8.7	12.0	16.5	9.9	12.2	14.4	14.4	12.2	11.1	14.4	13.3	18.7	11.0	11.0	10.0	8.8	16.5	12.0	18.7	7.7
23	16.5	8.8	12.2	11.1	7.8	7.7	6.6	7.6	12.0	10.9	6.6	6.6	7.7	7.7	3.3	-1.1	2.2	4.4	4.4	4.4	4.3	4.3	2.2	0.0	6.6	16.5	-1.1
24	1.1	7.6	28.1	3.2	1.1	0.0	2.2	3.2	0.0	0.0	3.3	4.4	3.3	4.4	4.5	5.6	5.5	5.5	6.6	4.4	0.0	1.1	1.1	1.1	4.1	28.1	0.0
25	2.2	1.1	2.2	2.2	1.1	2.2	1.1	0.0	1.1	2.2	2.2	6.7	6.7	3.3	4.4	6.7	10.0	17.7	17.6	16.5	20.8	15.3	12.0	9.8	6.9	20.8	0.0
26	9.8	16.2	8.6	8.6	8.6	6.5	4.3	5.4	8.6	4.3	2.2	5.4	5.4	4.4	3.3	2.2	4.3	3.2	1.1	4.3	7.5	6.4	4.3	5.3	5.8	16.2	1.1
27	4.3	3.2	2.1	1.1	2.1	3.2	5.3	6.4	4.3	5.4	65.5	21.6	7.6	7.6	6.5	5.4	6.5	5.4	2.2	3.2	4.3	5.3	4.3	7.4	7.9	65.5	1.1
28	4.3	1.1	4.2	2.1	2.1	1.1	1.1	2.1	3.2	3.2	1.1	1.1	2.2	3.3	5.5	6.6	7.6	9.8	10.8	9.7	7.5	6.5	5.4	5.4	4.5	10.8	1.1
29	1.1	2.2	3.2	1.1	1.1	0.0	0.0	3.2	5.4	6.5	9.8	7.7	3.3	4.4	3.3	4.4	9.9	13.2	15.3	13.0	9.8	8.7	4.4	1.1	5.5	15.3	0.0
30	-2.2	0.0	2.2	0.0	1.1	2.2	5.4	5.4	5.5	6.6	3.3	2.2	3.4	6.7	7.8	5.6	5.6	5.5	3.3	5.5	6.6	8.8	11.0	8.8	4.6	11.0	-2.2
31	7.7	17.6	19.8	15.4	11.0	5.5	8.8	19.6	19.5	22.9	9.9	7.6	1.1	-1.1	2.2	3.2	3.2	1.1	1.1	3.2	2.1	2.1	0.0	-1.1	7.6	22.9	-1.1
Avg	6.9	6.9	7.9	6.6	6.0	5.7	6.2	6.4	6.9	7.4	9.1	6.7	7.3	7.9	7.3	8.7	7.4	8.3	8.2	7.8	7.8	6.7	6.5	6.5	7.2	--	--
Max	20.1	17.8	28.1	18.5	14.5	16.7	17.8	19.6	19.9	22.9	65.5	21.6	32.9	25.1	18.2	32.9	18.2	20.4	23.4	21.4	20.8	15.3	22.2	18.9	--	65.5	--
Min	-2.2	0.0	-1.1	0.0	1.1	0.0	-2.2	0.0	0.0	-1.1	0.0	0.0	0.0	-1.1	0.0	-1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	-1.1	--	--	-2.2

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

"Component, Channel: Table126, conc_PM$_{2.5}$_µg/m^3 Actual"

Month: Oct 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	3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.0	3.0
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1.0	0.0	0.0	2.0	3.0	3.0	1.0	-1.0	2.0	--	3.0	-1.0
4	2.0	2.0	0.0	-3.0	-2.0	0.0	1.0	2.0	2.0	2.0	1.0	-1.0	1.0	1.0	-1.0	-1.0	-2.0	-1.0	0.0	1.0	3.0	0.0	-1.0	2.0	0.3	3.0	-3.0
5	2.0	2.0	1.0	1.0	2.0	2.0	3.0	4.0	4.0	3.0	4.0	3.0	2.0	2.0	0.0	0.0	2.0	2.0	2.0	0.0	3.0	4.0	2.0	2.0	2.2	4.0	0.0
6	-1.0	2.0	5.0	3.0	2.0	1.0	1.0	3.0	5.0	2.0	1.0	0.0	2.0	3.0	2.0	0.0	-1.0	1.0	2.0	3.0	3.0	3.0	2.0	1.0	1.9	5.0	-1.0
7	1.0	1.0	0.0	2.0	3.0	1.0	-1.0	2.0	3.0	2.0	1.0	3.0	4.0	2.0	1.0	1.0	2.0	5.0	6.0	4.0	3.0	4.0	5.0	6.0	2.5	6.0	-1.0
8	4.0	6.0	9.0	6.0	6.0	5.0	2.0	1.0	2.0	4.0	2.0	0.0	0.0	-1.0	2.0	3.0	2.0	2.0	-1.0	1.0	0.0	-3.0	-3.0	-3.0	1.9	9.0	-3.0
9	-3.0	-2.0	-2.0	-4.0	-2.0	-1.0	-3.0	-3.0	-1.0	3.0	5.0	2.0	1.0	2.0	1.0	1.0	4.0	4.0	3.0	2.0	1.0	2.0	1.0	2.0	0.5	5.0	-4.0
10	0.0	0.0	6.0	5.0	3.0	4.0	4.0	1.0	2.0	2.0	2.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	5.0	7.0	4.0	3.0	4.0	3.2	7.0	0.0
11	3.0	2.0	3.0	2.0	2.0	3.0	5.0	6.0	4.0	4.0	6.0	5.0	5.0	5.0	2.0	3.0	5.0	3.0	4.0	6.0	6.0	6.0	4.0	5.0	4.1	6.0	2.0
12	6.0	5.0	4.0	3.0	4.0	7.0	7.0	5.0	5.0	6.0	6.0	5.0	3.0	2.0	2.0	3.0	2.0	2.0	4.0	3.0	1.0	2.0	3.0	0.0	3.8	7.0	0.0
13	0.0	0.0	3.0	6.0	4.0	3.0	2.0	3.0	4.0	3.0	1.0	-2.0	-2.0	-2.0	-2.0	-3.0	-3.0	0.0	1.0	2.0	3.0	1.0	0.0	0.0	0.9	6.0	-3.0
14	0.0	-1.0	-1.0	1.0	3.0	1.0	-2.0	-1.0	3.0	3.0	3.0	1.0	-2.0	-2.0	1.0	2.0	-1.0	-1.0	-1.0	-2.0	-1.0	0.0	2.0	1.0	0.3	3.0	-2.0
15	-1.0	-1.0	0.0	-1.0	-1.0	1.0	3.0	0.0	-1.0	1.0	2.0	1.0	1.0	2.0	2.0	1.0	6.0	8.0	3.0	3.0	2.0	2.0	1.0	1.0	1.5	8.0	-1.0
16	2.0	2.0	1.0	2.0	3.0	2.0	1.0	3.0	4.0	3.0	1.0	2.0	2.0	2.0	1.0	-1.0	0.0	2.0	4.0	4.0	0.0	1.0	2.0	1.0	1.8	4.0	-1.0
17	2.0	1.0	2.0	2.0	0.0	1.0	2.0	4.0	7.0	6.0	3.0	2.0	0.0	2.0	4.0	1.0	1.0	2.0	2.0	3.0	4.0	1.0	1.0	2.0	2.3	7.0	0.0
18	0.0	-1.0	3.0	4.0	2.0	-1.0	0.0	3.0	3.0	3.0	2.0	1.0	0.0	-1.0	-1.0	1.0	2.0	2.0	1.0	2.0	2.0	2.0	3.0	1.0	1.4	4.0	-1.0
19	0.0	2.0	1.0	2.0	6.0	5.0	5.0	9.0	8.0	8.0	8.0	6.0	6.0	6.0	5.0	6.0	4.0	2.0	2.0	-1.0	-1.0	2.0	3.0	1.0	4.0	9.0	-1.0
20	0.0	0.0	-1.0	0.0	2.0	2.0	1.0	2.0	1.0	0.0	-1.0	0.0	-1.0	-3.0	-1.0	--	--	6.0	4.0	0.0	1.0	0.0	-1.0	0.0	0.5	6.0	-3.0
21	2.0	1.0	0.0	0.0	1.0	1.0	2.0	5.0	4.0	-1.0	-1.0	2.0	2.0	0.0	-2.0	0.0	1.0	1.0	3.0	2.0	1.0	1.0	1.0	1.0	1.1	5.0	-2.0
22	1.0	1.0	1.0	2.0	1.0	1.0	2.0	3.0	3.0	3.0	2.0	0.0	-1.0	1.0	1.0	-1.0	-2.0	2.0	4.0	0.0	1.0	3.0	2.0	1.0	1.3	4.0	-2.0
23	3.0	2.0	0.0	1.0	2.0	2.0	2.0	2.0	3.0	2.0	--	1.0	3.0	1.0	-1.0	2.0	3.0	2.0	4.0	6.0	5.0	3.0	3.0	4.0	2.4	6.0	-1.0
24	3.0	1.0	2.0	1.0	2.0	2.0	1.0	4.0	3.0	2.0	2.0	0.0	-3.0	-1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	-1.0	0.0	2.0	1.2	4.0	-3.0
25	0.0	-1.0	0.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	4.0	3.0	1.0	1.0	5.0	5.0	2.0	4.0	5.0	5.0	5.0	5.0	6.0	4.0	2.6	6.0	-1.0
26	4.0	4.0	5.0	4.0	4.0	6.0	6.0	6.0	7.0	7.0	5.0	4.0	7.0	5.0	2.0	2.0	1.0	4.0	4.0	3.0	4.0	6.0	5.0	3.0	4.5	7.0	1.0
27	5.0	4.0	4.0	4.0	2.0	3.0	4.0	4.0	3.0	2.0	5.0	5.0	4.0	4.0	2.0	1.0	4.0	3.0	4.0	4.0	4.0	2.0	2.0	4.0	3.5	5.0	1.0
28	3.0	5.0	6.0	4.0	4.0	2.0	1.0	4.0	5.0	2.0	0.0	0.0	4.0	5.0	1.0	1.0	3.0	6.0	6.0	6.0	6.0	4.0	3.0	1.0	3.4	6.0	0.0
29	1.0	1.0	0.0	1.0	2.0	2.0	2.0	5.0	5.0	3.0	2.0	2.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	0.0	-1.0	0.0	0.0	0.0	1.3	5.0	-1.0
30	0.0	2.0	4.0	2.0	2.0	1.0	-1.0	1.0	2.0	0.0	-1.0	2.0	2.0	-1.0	-1.0	1.0	4.0	2.0	1.0	2.0	1.0	0.0	0.0	0.0	1.0	4.0	-1.0
31	0.0	2.0	3.0	3.0	3.0	1.0	2.0	3.0	4.0	3.0	0.0	1.0	3.0	5.0	5.0	5.0	7.0	6.0	6.0	6.0	8.0	8.0	7.0	6.0	4.0	8.0	0.0
Avg	1.5	1.6	2.1	1.9	2.2	2.1	1.9	3.0	3.4	2.8	2.4	1.9	1.7	1.6	1.3	1.3	1.8	2.6	2.7	2.6	2.6	2.2	1.9	1.9	2.1	--	--
Max	6.0	6.0	9.0	6.0	6.0	7.0	7.0	9.0	8.0	8.0	8.0	6.0	7.0	6.0	5.0	6.0	7.0	8.0	6.0	6.0	8.0	8.0	7.0	6.0	--	9.0	--
Min	-3.0	-2.0	-2.0	-4.0	-2.0	-1.0	-3.0	-3.0	-1.0	-1.0	-1.0	-2.0	-3.0	-3.0	-2.0	-3.0	-3.0	-1.0	-1.0	-2.0	-1.0	-3.0	-3.0	-3.0	--	--	-4.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

"Component, Channel: Table126, conc_$PM_{2.5}$_µg/m^3 Actual"

Month: Nov 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	7.0	11.0	11.0	10.0	8.0	5.0	6.0	7.0	6.0	5.0	6.0	4.0	3.0	7.0	6.0	4.0	2.0	1.0	2.0	3.0	3.0	0.0	-1.0	5.0	11.0	-1.0
2	0.0	1.0	5.0	9.0	7.0	5.0	3.0	4.0	7.0	5.0	3.0	5.0	4.0	0.0	1.0	0.0	-1.0	1.0	1.0	1.0	1.0	2.0	3.0	2.0	2.9	9.0	-1.0
3	0.0	0.0	0.0	0.0	1.0	3.0	2.0	2.0	2.0	0.0	0.0	-3.0	-2.0	1.0	2.0	2.0	0.0	0.0	1.0	2.0	3.0	2.0	3.0	2.0	1.0	3.0	-3.0
4	0.0	-1.0	-2.0	1.0	0.0	1.0	2.0	2.0	4.0	3.0	2.0	3.0	-2.0	-4.0	-1.0	1.0	0.0	0.0	0.0	1.0	0.0	1.0	3.0	0.0	0.6	4.0	-4.0
5	0.0	0.0	0.0	1.0	4.0	1.0	-1.0	0.0	2.0	3.0	5.0	10.0	6.0	-1.0	2.0	2.0	2.0	1.0	4.0	3.0	1.0	1.0	1.0	2.0	2.0	10.0	-1.0
6	3.0	2.0	0.0	-1.0	0.0	1.0	1.0	2.0	2.0	1.0	-2.0	-3.0	-3.0	-2.0	0.0	0.0	-3.0	1.0	2.0	0.0	-1.0	2.0	4.0	1.0	0.3	4.0	-3.0
7	0.0	2.0	1.0	-1.0	1.0	0.0	1.0	2.0	2.0	2.0	0.0	-1.0	0.0	0.0	0.0	1.0	1.0	-1.0	1.0	2.0	4.0	4.0	2.0	0.0	1.0	4.0	-1.0
8	2.0	2.0	1.0	2.0	2.0	3.0	4.0	2.0	1.0	1.0	-1.0	-1.0	0.0	0.0	-3.0	-3.0	5.0	7.0	1.0	0.0	0.0	1.0	3.0	5.0	1.4	7.0	-3.0
9	2.0	0.0	0.0	1.0	3.0	4.0	1.0	3.0	4.0	0.0	1.0	-1.0	-1.0	0.0	-1.0	1.0	1.0	0.0	1.0	1.0	2.0	0.0	0.0	3.0	1.0	4.0	-1.0
10	2.0	2.0	2.0	1.0	0.0	0.0	2.0	3.0	1.0	-1.0	0.0	1.0	1.0	4.0	3.0	1.0	1.0	2.0	4.0	3.0	3.0	2.0	0.0	1.0	1.6	4.0	-1.0
11	2.0	0.0	-1.0	0.0	0.0	2.0	4.0	3.0	2.0	3.0	2.0	0.0	0.0	0.0	-2.0	-2.0	-1.0	0.0	1.0	2.0	2.0	2.0	2.0	2.0	1.0	4.0	-2.0
12	2.0	3.0	2.0	0.0	1.0	4.0	3.0	2.0	4.0	4.0	0.0	-1.0	3.0	3.0	1.0	2.0	2.0	2.0	0.0	0.0	1.0	3.0	3.0	0.0	1.8	4.0	-1.0
13	1.0	1.0	-1.0	-2.0	-1.0	3.0	3.0	0.0	1.0	3.0	1.0	2.0	1.0	0.0	3.0	1.0	-1.0	4.0	4.0	4.0	3.0	2.0	4.0	3.0	1.6	4.0	-2.0
14	2.0	1.0	2.0	3.0	3.0	2.0	1.0	2.0	4.0	2.0	0.0	2.0	1.0	2.0	3.0	2.0	3.0	2.0	2.0	3.0	2.0	0.0	2.0	5.0	2.1	5.0	0.0
15	3.0	3.0	3.0	3.0	4.0	4.0	4.0	3.0	5.0	4.0	4.0	3.0	1.0	4.0	4.0	1.0	-1.0	2.0	2.0	3.0	2.0	1.0	2.0	3.0	2.8	5.0	-1.0
16	4.0	6.0	2.0	0.0	1.0	0.0	2.0	5.0	5.0	2.0	2.0	2.0	-1.0	0.0	0.0	2.0	4.0	1.0	-2.0	0.0	1.0	3.0	9.0	13.0	2.5	13.0	-2.0
17	11.0	7.0	10.0	11.0	4.0	1.0	2.0	4.0	1.0	-2.0	0.0	2.0	2.0	-2.0	-1.0	2.0	1.0	1.0	3.0	1.0	0.0	1.0	0.0	0.0	2.5	11.0	-2.0
18	1.0	1.0	2.0	3.0	2.0	1.0	2.0	2.0	3.0	3.0	3.0	1.0	0.0	1.0	3.0	5.0	3.0	0.0	2.0	3.0	1.0	1.0	0.0	-1.0	1.8	5.0	-1.0
19	-3.0	-2.0	1.0	1.0	3.0	4.0	1.0	1.0	2.0	2.0	-2.0	-2.0	-1.0	-1.0	2.0	2.0	0.0	0.0	1.0	1.0	0.0	0.0	2.0	3.0	0.6	4.0	-3.0
20	1.0	2.0	3.0	2.0	0.0	0.0	-1.0	0.0	2.0	1.0	1.0	-1.0	-1.0	2.0	2.0	2.0	1.0	0.0	3.0	5.0	3.0	3.0	4.0	3.0	1.5	5.0	-1.0
21	1.0	0.0	2.0	1.0	0.0	2.0	2.0	1.0	0.0	0.0	1.0	1.0	1.0	3.0	2.0	0.0	0.0	2.0	4.0	5.0	3.0	0.0	1.0	4.0	1.5	5.0	0.0
22	5.0	5.0	5.0	5.0	5.0	4.0	3.0	3.0	2.0	1.0	2.0	3.0	2.0	2.0	1.0	1.0	2.0	2.0	2.0	2.0	4.0	4.0	2.0	1.0	2.8	5.0	1.0
23	1.0	1.0	1.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	9.0	11.0	11.0	8.0	6.0	2.0	-1.0	-2.0	-2.0	0.0	0.0	0.0	0.0	2.0	3.1	11.0	-2.0
24	1.0	1.0	1.0	-1.0	-2.0	0.0	0.0	2.0	3.0	3.0	2.0	-3.0	-4.0	-3.0	-3.0	1.0	3.0	-1.0	3.0	3.0	0.0	2.0	0.0	-1.0	0.3	3.0	-4.0
25	1.0	3.0	3.0	1.0	0.0	0.0	0.0	-1.0	0.0	0.0	2.0	0.0	-2.0	-2.0	-2.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	1.0	-1.0	0.3	3.0	-2.0
26	-1.0	1.0	1.0	0.0	-2.0	-1.0	-2.0	0.0	2.0	3.0	2.0	-1.0	0.0	0.0	-1.0	-1.0	-1.0	-1.0	-1.0	-2.0	-1.0	-2.0	-1.0	0.0	-0.4	3.0	-2.0
27	-2.0	-2.0	-2.0	-1.0	0.0	1.0	-1.0	0.0	3.0	1.0	-1.0	-3.0	-1.0	1.0	-3.0	-4.0	-4.0	-3.0	-1.0	-1.0	0.0	0.0	-1.0	-1.0	-1.0	3.0	-4.0
28	-1.0	0.0	-1.0	0.0	1.0	2.0	1.0	-1.0	2.0	3.0	1.0	0.0	-1.0	-2.0	-1.0	-1.0	0.0	2.0	2.0	0.0	-3.0	0.0	2.0	1.0	0.3	3.0	-3.0
29	0.0	0.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	0.0	0.0	-2.0	-2.0	-1.0	-1.0	1.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	0.5	2.0	-2.0
30	1.0	2.0	3.0	2.0	0.0	1.0	1.0	4.0	3.0	1.0	2.0	2.0	1.0	0.0	2.0	2.0	1.0	3.0	1.0	-1.0	0.0	3.0	4.0	3.0	1.7	4.0	-1.0
Avg	1.4	1.6	1.8	1.9	1.7	2.0	1.7	2.0	2.7	1.9	1.5	1.1	0.6	0.5	0.8	1.0	0.8	1.0	1.4	1.5	1.2	1.5	1.9	1.8	1.5	--	--
Max	11.0	7.0	11.0	11.0	10.0	8.0	5.0	6.0	7.0	6.0	9.0	11.0	11.0	8.0	7.0	6.0	5.0	7.0	4.0	5.0	4.0	4.0	9.0	13.0	--	13.0	--
Min	-3.0	-2.0	-2.0	-2.0	-2.0	-1.0	-2.0	-1.0	0.0	-2.0	-2.0	-3.0	-4.0	-4.0	-3.0	-4.0	-4.0	-3.0	-2.0	-2.0	-3.0	-2.0	-1.0	-1.0	--	--	-4.0

SAROAD for Resolution, East_Plant

"Component, Channel: Table126, conc_$PM_{2.5}$_µg/m^3 Actual"

Month: Dec 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	2.0	1.0	2.0	2.0	1.0	2.0	2.0	1.0	0.0	0.0	1.0	3.0	3.0	2.0	2.0	1.0	3.0	2.0	0.0	1.0	2.0	2.0	1.7	3.0	0.0
2	0.0	1.0	3.0	3.0	1.0	0.0	-1.0	2.0	3.0	2.0	1.0	2.0	2.0	1.0	0.0	0.0	2.0	3.0	1.0	2.0	0.0	0.0	1.0	3.0	1.3	3.0	-1.0
3	3.0	1.0	1.0	1.0	2.0	3.0	4.0	2.0	2.0	1.0	-1.0	0.0	2.0	2.0	2.0	2.0	1.0	0.0	0.0	2.0	3.0	0.0	-1.0	1.0	1.4	4.0	-1.0
4	2.0	0.0	-2.0	-1.0	-1.0	0.0	2.0	2.0	1.0	-1.0	-3.0	-2.0	-2.0	-2.0	-1.0	-1.0	-1.0	1.0	2.0	4.0	3.0	2.0	3.0	2.0	0.3	4.0	-3.0
5	3.0	5.0	5.0	3.0	1.0	4.0	3.0	0.0	2.0	3.0	1.0	-1.0	3.0	5.0	3.0	1.0	1.0	1.0	3.0	1.0	1.0	2.0	2.0	5.0	2.4	5.0	-1.0
6	5.0	4.0	4.0	4.0	4.0	4.0	1.0	0.0	--	1.0	2.0	2.0	1.0	2.0	0.0	2.0	2.0	1.0	2.0	1.0	-1.0	1.0	2.0	2.0	2.0	5.0	-1.0
7	1.0	0.0	1.0	0.0	-2.0	1.0	2.0	2.0	2.0	0.0	1.0	2.0	1.0	0.0	1.0	1.0	-2.0	-1.0	2.0	1.0	2.0	3.0	2.0	3.0	1.0	3.0	-2.0
8	2.0	4.0	4.0	3.0	4.0	2.0	1.0	2.0	4.0	3.0	0.0	2.0	1.0	-1.0	2.0	2.0	0.0	1.0	1.0	0.0	1.0	1.0	2.0	3.0	1.8	4.0	-1.0
9	3.0	2.0	1.0	2.0	1.0	0.0	2.0	3.0	3.0	2.0	-1.0	-1.0	1.0	-1.0	1.0	4.0	5.0	4.0	5.0	5.0	4.0	6.0	5.0	3.0	2.5	6.0	-1.0
10	4.0	3.0	4.0	6.0	6.0	6.0	5.0	4.0	5.0	6.0	5.0	8.0	8.0	6.0	5.0	4.0	3.0	3.0	7.0	10.0	10.0	8.0	6.0	5.0	5.7	10.0	3.0
11	6.0	6.0	7.0	6.0	5.0	6.0	6.0	6.0	5.0	4.0	6.0	4.0	1.0	2.0	4.0	4.0	3.0	5.0	6.0	5.0	5.0	5.0	6.0	6.0	5.0	7.0	1.0
12	4.0	4.0	5.0	4.0	3.0	4.0	4.0	5.0	5.0	5.0	4.0	2.0	--	1.0	2.0	5.0	5.0	3.0	3.0	3.0	2.0	1.0	3.0	4.0	3.5	5.0	1.0
13	5.0	7.0	6.0	3.0	3.0	1.0	1.0	3.0	1.0	1.0	1.0	-1.0	-1.0	0.0	0.0	1.0	4.0	3.0	1.0	1.0	1.0	0.0	-1.0	2.0	1.8	7.0	-1.0
14	3.0	1.0	-1.0	-1.0	1.0	2.0	3.0	5.0	5.0	2.0	0.0	2.0	5.0	2.0	1.0	4.0	4.0	5.0	5.0	3.0	3.0	1.0	0.0	1.0	2.3	5.0	-1.0
15	1.0	1.0	2.0	3.0	3.0	2.0	0.0	0.0	0.0	0.0	2.0	4.0	3.0	1.0	2.0	1.0	-1.0	1.0	1.0	2.0	3.0	2.0	0.0	1.0	1.4	4.0	-1.0
16	3.0	1.0	-1.0	1.0	3.0	2.0	1.0	0.0	1.0	2.0	0.0	1.0	1.0	-1.0	-1.0	-1.0	2.0	3.0	4.0	5.0	3.0	0.0	3.0	8.0	1.7	8.0	-1.0
17	11.0	9.0	10.0	15.0	10.0	6.0	5.0	3.0	1.0	1.0	0.0	2.0	1.0	0.0	1.0	1.0	2.0	1.0	0.0	2.0	3.0	2.0	2.0	1.0	3.7	15.0	0.0
18	0.0	1.0	1.0	-1.0	1.0	3.0	0.0	-2.0	-1.0	1.0	3.0	3.0	1.0	1.0	2.0	1.0	-1.0	0.0	1.0	2.0	3.0	2.0	1.0	1.0	1.0	3.0	-2.0
19	1.0	1.0	1.0	1.0	0.0	1.0	3.0	3.0	4.0	--	3.0	-1.0	-2.0	-2.0	-3.0	-3.0	-1.0	2.0	4.0	2.0	-1.0	1.0	3.0	3.0	0.9	4.0	-3.0
20	4.0	3.0	4.0	2.0	1.0	0.0	1.0	0.0	0.0	1.0	-1.0	0.0	0.0	-2.0	-1.0	0.0	1.0	1.0	4.0	4.0	3.0	1.0	-2.0	0.0	1.0	4.0	-2.0
21	2.0	1.0	0.0	0.0	2.0	2.0	2.0	1.0	1.0	3.0	3.0	2.0	1.0	5.0	6.0	2.0	5.0	7.0	7.0	8.0	8.0	8.0	7.0	7.0	3.8	8.0	0.0
22	7.0	7.0	9.0	8.0	9.0	11.0	8.0	9.0	13.0	12.0	10.0	11.0	10.0	7.0	7.0	9.0	9.0	7.0	9.0	11.0	10.0	7.0	6.0	9.0	9.0	13.0	6.0
23	11.0	11.0	7.0	4.0	1.0	-1.0	2.0	2.0	2.0	1.0	1.0	1.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	0.0	-2.0	-4.0	-2.0	-2.0	-3.0	0.7	11.0	-4.0
24	-2.0	-1.0	-1.0	-1.0	-1.0	0.0	0.0	-1.0	-1.0	-2.0	-1.0	-1.0	-1.0	-2.0	-3.0	-2.0	1.0	1.0	-1.0	1.0	1.0	0.0	0.0	-2.0	-0.8	1.0	-3.0
25	-1.0	-1.0	0.0	1.0	-2.0	-2.0	0.0	0.0	1.0	0.0	2.0	3.0	1.0	1.0	3.0	4.0	5.0	5.0	4.0	6.0	6.0	3.0	2.0	2.0	1.8	6.0	-2.0
26	1.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	1.0	-1.0	-1.0	-2.0	-1.0	0.0	-2.0	-2.0	-2.0	-1.0	0.0	2.0	3.0	2.0	1.0	2.0	0.1	3.0	-2.0
27	2.0	0.0	1.0	1.0	0.0	1.0	0.0	1.0	3.0	2.0	1.0	-1.0	-1.0	0.0	1.0	1.0	1.0	2.0	3.0	2.0	3.0	0.0	-1.0	1.0	1.0	3.0	-1.0
28	0.0	0.0	1.0	2.0	1.0	1.0	2.0	3.0	3.0	2.0	2.0	2.0	2.0	1.0	0.0	-2.0	0.0	1.0	0.0	0.0	0.0	2.0	0.0	-1.0	0.9	3.0	-2.0
29	1.0	2.0	0.0	0.0	1.0	1.0	-2.0	-1.0	2.0	1.0	3.0	2.0	1.0	-1.0	-3.0	-2.0	2.0	3.0	4.0	4.0	3.0	3.0	3.0	2.0	1.2	4.0	-3.0
30	1.0	0.0	1.0	0.0	0.0	1.0	2.0	4.0	3.0	2.0	-1.0	0.0	2.0	1.0	1.0	2.0	1.0	0.0	1.0	1.0	3.0	2.0	2.0	4.0	1.4	4.0	-1.0
31	5.0	10.0	13.0	9.0	5.0	4.0	2.0	2.0	5.0	5.0	3.0	1.0	0.0	0.0	1.0	1.0	1.0	2.0	0.0	0.0	0.0	-2.0	-2.0	0.0	2.7	13.0	-2.0
Avg	2.9	2.7	2.8	2.6	2.1	2.2	2.0	2.1	2.6	2.0	1.5	1.5	1.3	0.9	1.0	1.3	1.7	2.0	2.7	2.9	2.6	2.0	1.8	2.5	2.1	--	--
Max	11.0	11.0	13.0	15.0	10.0	11.0	8.0	9.0	13.0	12.0	10.0	11.0	10.0	7.0	7.0	9.0	9.0	7.0	9.0	11.0	10.0	8.0	7.0	9.0	--	15.0	--
Min	-2.0	-1.0	-2.0	-1.0	-2.0	-2.0	-2.0	-2.0	-1.0	-2.0	-3.0	-2.0	-2.0	-2.0	-3.0	-3.0	-2.0	-2.0	-1.0	-2.0	-4.0	-2.0	-2.0	-3.0	--	--	-4.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

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

Month: Oct 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	5.5	3.3	6.6	8.8	5.5	20.8	2.2	4.4	7.8	10.1	12.4	20.3	16.9	50.8	10.2	7.9	7.9	19.0	14.5	22.1	16.6	9.9	8.8	12.5	50.8	2.2
2	8.8	8.8	6.6	6.6	9.9	8.7	9.9	15.3	14.4	8.9	6.7	5.6	4.5	7.9	6.8	4.5	6.8	9.0	7.8	10.0	10.0	3.3	1.1	1.1	7.6	15.3	1.1
3	2.2	2.2	0.0	-3.3	-2.2	-1.1	23.0	23.0	12.2	6.7	2.2	3.4	4.5	5.7	3.4	1.1	1.1	3.4	3.4	0.0	-1.1	3.4	6.7	5.6	4.4	23.0	-3.3
4	6.7	3.3	1.1	-1.1	0.0	1.1	16.6	18.9	6.7	3.4	3.4	6.8	5.7	6.9	8.0	4.6	6.9	6.8	5.6	6.7	30.1	14.5	10.0	5.5	7.4	30.1	-1.1
5	8.9	8.8	6.6	11.0	13.2	17.6	16.5	12.1	10.0	7.8	9.0	9.0	7.9	6.8	10.2	10.2	11.3	9.0	40.4	6.7	11.1	34.4	6.6	6.6	12.2	40.4	6.6
6	5.5	3.3	3.3	7.7	23.1	38.4	67.9	30.9	12.2	11.2	12.3	18.0	16.9	13.6	20.3	11.3	9.0	9.0	23.5	20.0	21.1	17.7	26.5	13.3	18.2	67.9	3.3
7	11.0	24.3	6.6	6.6	5.5	4.4	60.4	16.5	11.1	7.8	7.8	10.1	9.0	10.2	9.0	7.9	12.4	15.7	24.6	21.2	20.0	23.3	29.9	34.3	16.2	60.4	4.4
8	38.7	34.3	34.2	28.7	22.0	12.1	10.9	9.9	4.4	2.2	2.2	2.2	0.0	0.0	3.3	1.1	2.2	3.3	4.4	5.5	5.4	3.3	1.1	1.1	9.7	38.7	0.0
9	0.0	0.0	2.2	4.4	5.4	6.5	7.6	7.6	5.4	6.5	9.8	8.7	8.7	7.7	2.2	0.0	0.0	1.1	4.4	2.2	3.3	4.4	4.4	7.6	4.6	9.8	0.0
10	7.6	7.6	7.6	7.6	7.6	6.5	5.4	7.6	7.7	5.5	6.6	5.5	3.3	3.3	6.7	11.1	10.0	10.0	11.0	12.1	13.2	14.2	14.2	10.9	8.5	14.2	3.3
11	10.9	8.7	8.8	8.8	8.8	9.8	8.7	8.7	8.8	6.6	8.9	12.3	9.0	9.0	11.2	18.0	13.5	21.3	14.5	15.5	18.8	13.2	14.3	13.2	11.7	21.3	6.6
12	11.0	12.1	11.0	9.9	11.0	16.4	24.0	21.9	12.1	14.4	15.6	17.9	11.2	12.4	24.8	16.9	20.3	39.3	58.1	39.0	18.8	13.3	26.5	48.6	21.1	58.1	9.9
13	25.4	19.8	38.5	31.9	18.7	12.0	21.9	6.6	8.8	12.1	12.1	11.1	5.6	2.2	6.7	6.7	5.6	6.7	7.7	8.8	8.8	6.6	1.1	0.0	11.9	38.5	0.0
14	1.1	3.3	5.5	3.3	2.2	4.4	7.6	8.7	5.5	3.3	4.5	5.6	4.5	6.8	6.8	2.3	-3.4	-2.3	2.2	1.1	3.4	6.7	7.8	10.0	4.2	10.0	-3.4
15	6.7	5.6	5.6	5.6	7.8	5.5	25.5	11.1	53.3	7.8	--	--	--	--	3.4	6.8	15.8	14.6	19.0	8.9	11.1	12.2	10.0	7.7	12.2	53.3	3.4
16	7.7	7.7	5.5	5.5	16.5	7.7	36.1	12.1	19.9	17.8	13.5	7.9	3.4	6.8	13.6	12.4	9.0	12.3	22.3	16.7	23.2	31.9	19.8	16.5	14.4	36.1	3.4
17	14.3	13.2	11.0	6.6	--	15.4	15.3	18.6	8.8	9.9	23.1	13.2	11.1	11.2	6.8	1.1	0.0	16.8	31.1	13.3	12.2	11.1	7.7	4.4	12.0	31.1	0.0
18	2.2	3.3	2.2	2.2	2.2	1.1	8.8	8.8	6.6	6.7	6.8	4.5	-1.1	4.6	8.0	5.7	7.9	24.7	29.1	24.5	13.4	3.3	1.1	8.9	7.7	29.1	-1.1
19	6.7	4.4	5.6	11.1	15.6	22.1	22.0	29.8	31.0	23.5	24.7	29.3	18.1	27.0	15.7	13.3	24.0	6.5	5.4	4.4	1.1	-1.1	1.1	3.3	14.4	31.0	-1.1
20	3.3	1.1	3.3	3.3	1.1	3.3	6.5	5.5	3.3	1.1	--	--	--	--	6.7	4.5	2.3	4.5	4.5	4.4	5.5	2.2	-1.1	-1.1	3.2	6.7	-1.1
21	2.2	2.2	2.2	2.2	0.0	2.2	4.4	2.2	0.0	2.2	2.2	3.3	2.2	1.1	0.0	-1.1	0.0	1.1	2.2	4.4	6.6	8.8	8.8	6.6	2.8	8.8	-1.1
22	3.3	1.1	2.2	4.4	4.4	2.2	4.4	6.6	5.5	6.7	5.6	4.5	3.4	2.3	5.6	6.8	7.9	5.6	5.6	5.5	4.4	7.7	7.7	4.4	4.9	7.9	1.1
23	5.5	5.5	4.4	2.2	1.1	1.1	4.4	8.8	6.6	4.4	7.8	9.0	6.8	1.1	1.1	3.4	2.3	6.7	18.9	8.9	7.7	6.6	4.4	5.5	5.6	18.9	1.1
24	4.4	2.2	5.5	4.4	2.2	2.2	1.1	4.4	6.7	6.7	9.0	6.8	6.8	5.7	4.5	4.5	2.3	6.8	10.1	7.8	8.9	10.0	9.9	5.5	5.8	10.1	1.1
25	5.5	6.7	6.7	6.6	5.5	7.7	17.6	17.7	7.8	6.7	3.4	3.4	5.7	6.8	4.5	6.8	8.0	9.0	27.0	21.2	16.8	17.9	22.3	17.8	10.8	27.0	3.4
26	12.2	14.4	12.2	12.1	9.9	9.9	18.7	19.8	12.2	12.2	11.2	12.4	14.6	13.5	12.4	20.3	13.5	10.1	23.4	15.6	32.2	18.9	18.8	19.9	15.4	32.2	9.9
27	16.6	18.7	12.1	11.0	11.0	25.2	30.6	19.7	15.4	10.0	8.9	11.2	17.9	11.2	22.4	16.8	11.2	10.0	19.9	17.6	23.1	17.5	17.5	14.2	16.2	30.6	8.9
28	14.2	17.4	17.4	18.5	14.1	17.4	20.6	21.7	15.3	14.3	10.0	7.8	11.2	11.2	10.1	12.3	12.3	20.0	17.7	27.4	13.1	27.3	14.2	14.2	15.8	27.4	7.8
29	15.2	10.9	9.8	25.0	18.4	18.5	17.4	17.4	8.8	6.6	7.8	6.7	3.4	6.8	10.1	11.3	7.9	6.7	7.8	6.6	6.6	6.6	2.2	3.3	10.1	25.0	2.2
30	8.8	7.7	5.5	6.6	5.5	7.7	7.7	7.7	8.9	8.9	7.8	3.4	5.7	5.7	1.1	2.3	4.5	5.6	6.7	5.6	6.7	6.7	6.7	8.9	6.4	8.9	1.1
31	6.7	5.6	8.9	17.8	10.0	25.5	24.4	29.9	22.2	34.5	63.7	37.1	29.4	24.9	29.5	24.9	35.1	37.2	30.4	24.7	26.9	17.9	19.0	17.8	25.2	63.7	5.6
Avg	9.1	8.7	8.2	8.8	8.6	10.2	18.3	13.9	11.5	9.2	10.9	10.0	8.6	8.6	10.5	8.3	8.6	10.9	16.4	12.3	13.0	12.3	10.7	10.5	10.7	--	--
Max	38.7	34.3	38.5	31.9	23.1	38.4	67.9	30.9	53.3	34.5	63.7	37.1	29.4	27.0	50.8	24.9	35.1	39.3	58.1	39.0	32.2	34.4	29.9	48.6	--	67.9	--
Min	0.0	0.0	0.0	-3.3	-2.2	-1.1	1.1	2.2	0.0	1.1	2.2	2.2	-1.1	0.0	0.0	-1.1	-3.4	-2.3	2.2	0.0	-1.1	-1.1	-1.1	-1.1	--	--	-3.4

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

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

Month: Nov 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	14.4	36.5	45.3	43.0	38.5	37.3	37.2	--	--	--	--	--	--	--	--	--	--	--	26.4	27.5	19.7	12.0	10.9	7.7	--	45.3	7.7
2	5.5	28.1	32.4	34.6	50.7	39.9	40.9	44.2	41.1	33.6	38.9	22.8	23.8	13.1	10.9	17.4	20.6	11.9	29.1	21.4	23.5	10.7	7.5	6.4	25.4	50.7	5.5
3	8.5	6.4	2.1	2.1	5.3	9.5	11.6	13.7	23.5	10.7	8.6	4.3	8.7	14.1	20.7	8.7	7.6	6.5	8.6	10.7	11.7	16.0	7.5	8.5	9.8	23.5	2.1
4	9.6	9.6	8.6	8.6	12.9	28.9	28.9	35.3	31.1	12.9	10.8	8.7	9.8	6.6	3.3	2.2	0.0	1.1	1.1	3.3	3.3	3.3	6.5	4.3	10.4	35.3	0.0
5	2.2	1.1	2.2	4.3	1.1	0.0	5.4	6.4	8.6	9.7	3.3	0.0	4.4	4.4	1.1	-1.1	1.1	2.2	1.1	2.2	3.3	5.4	6.5	2.2	3.2	9.7	-1.1
6	1.1	3.3	3.2	1.1	2.2	2.1	0.0	2.1	2.2	2.2	3.3	4.4	3.3	3.3	3.3	0.0	0.0	2.2	2.2	3.3	2.2	1.1	1.1	2.2	2.1	4.4	0.0
7	2.2	4.3	5.3	26.7	5.3	4.3	2.1	3.2	4.3	6.5	5.4	2.2	0.0	2.2	6.7	8.9	8.9	9.9	13.1	13.0	11.9	8.7	8.7	9.7	7.2	26.7	0.0
8	9.7	8.7	3.3	3.2	3.2	4.3	5.4	8.7	11.0	25.3	15.5	13.3	8.9	7.8	6.7	8.9	11.1	8.9	12.1	13.2	18.7	10.9	12.0	10.9	10.1	25.3	3.2
9	9.8	20.7	15.2	14.2	14.2	10.9	10.9	19.6	10.9	12.1	15.4	15.5	12.2	11.2	14.6	13.5	9.0	11.2	55.3	11.0	24.2	5.5	7.7	18.6	15.1	55.3	5.5
10	19.7	19.6	20.8	16.3	16.3	13.0	20.6	25.0	18.6	3.3	4.4	10.0	14.5	13.4	11.2	10.1	13.4	16.7	13.3	14.3	22.0	20.9	19.7	14.2	15.5	25.0	3.3
11	12.0	16.3	5.4	4.3	6.5	10.8	11.9	9.7	7.7	8.8	8.8	7.8	3.3	3.3	10.0	8.9	10.0	17.7	18.7	12.1	9.9	9.8	13.1	13.1	10.0	18.7	3.3
12	12.0	10.9	8.7	9.8	8.7	7.6	10.8	18.4	18.5	11.0	11.0	6.6	6.6	12.1	14.3	12.1	11.0	21.9	7.7	8.7	9.8	10.8	7.6	6.5	11.0	21.9	6.5
13	8.6	10.8	10.8	10.8	10.8	7.6	6.5	8.7	9.8	7.6	8.7	6.6	5.5	3.3	4.4	6.6	8.8	18.6	15.3	18.5	23.9	10.8	11.9	13.0	10.3	23.9	3.3
14	13.0	13.0	13.0	11.9	9.7	9.7	8.6	8.6	17.3	6.6	8.8	9.9	6.6	6.6	10.9	12.0	13.1	15.2	17.4	18.4	17.3	15.1	12.9	10.8	11.9	18.4	6.6
15	10.8	9.7	9.7	10.7	11.7	11.7	9.6	7.5	9.7	8.6	10.9	10.9	8.7	9.9	16.5	14.2	16.4	16.3	23.9	17.3	23.8	15.1	15.1	15.1	13.1	23.9	7.5
16	11.9	11.8	10.7	9.7	10.7	10.7	11.8	16.0	11.7	9.6	11.8	16.2	7.6	6.5	19.4	3.2	2.1	2.1	4.2	2.1	8.5	14.7	77.1	11.6	12.6	77.1	2.1
17	7.4	4.2	2.1	2.1	63.2	3.2	7.4	12.6	12.6	24.3	22.3	6.4	5.4	5.4	4.3	-1.1	-3.2	-1.1	3.2	4.3	4.3	7.4	5.3	8.5	8.8	63.2	-3.2
18	11.6	5.3	0.0	6.4	10.6	6.4	5.3	5.3	4.3	5.3	41.6	7.5	6.5	4.3	19.5	9.8	6.5	5.4	4.3	-1.1	1.1	5.3	4.3	3.2	7.4	41.6	-1.1
19	6.4	5.3	3.2	3.2	0.0	2.1	3.2	3.2	3.2	3.2	5.4	6.5	5.4	5.5	6.6	8.8	9.8	10.8	18.2	9.6	9.6	10.7	11.7	7.5	6.6	18.2	0.0
20	5.3	5.3	4.2	3.2	5.3	8.5	9.5	11.7	16.0	9.7	8.7	6.5	5.5	19.7	17.5	13.1	10.9	20.6	212.0	33.3	425.0	15.0	11.8	8.6	37.0	425.0	3.2
21	5.4	3.2	6.5	6.5	7.5	11.8	10.8	9.7	6.4	7.5	6.5	4.3	5.4	--	--	--	--	--	--	--	--	--	--	--	--	11.8	3.2
22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Avg	8.9	11.1	10.1	11.1	14.0	11.4	12.3	13.5	13.4	10.9	12.5	8.5	7.6	8.0	10.6	8.2	8.3	10.4	24.4	12.2	33.7	10.5	12.9	9.1	12.0	--	--
Max	19.7	36.5	45.3	43.0	63.2	39.9	40.9	44.2	41.1	33.6	41.6	22.8	23.8	19.7	20.7	17.4	20.6	21.9	212.0	33.3	425.0	20.9	77.1	18.6	--	425.0	--
Min	1.1	1.1	0.0	1.1	0.0	0.0	0.0	2.1	2.2	2.2	3.3	0.0	0.0	2.2	1.1	-1.1	-3.2	-1.1	1.1	-1.1	1.1	1.1	1.1	2.2	--	--	-3.2

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

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

Month: Dec 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	--	--	--	--	--	--	--	--	--	--	--	6.5	6.5	7.7	25.2	7.7	7.7	4.3	26.0	5.4	2.2	2.2	6.5	7.6	--	26.0	2.2
2	5.4	4.3	5.4	7.6	20.7	3.3	6.5	11.9	9.8	6.5	6.5	6.6	17.5	12.1	9.9	9.9	13.1	29.4	14.1	13.0	9.7	7.5	8.6	7.5	10.3	29.4	3.3
3	6.4	6.4	2.1	3.2	5.4	5.4	4.3	1.1	3.2	3.3	5.5	5.5	3.3	3.3	4.4	6.6	6.6	6.6	5.5	3.3	2.2	3.3	3.3	0.0	4.2	6.6	0.0
4	-2.2	2.2	4.3	2.2	2.2	4.3	4.3	3.2	0.0	-1.1	1.1	1.1	1.1	1.1	0.0	2.2	2.2	0.0	3.2	8.6	8.5	8.5	9.6	9.6	3.2	9.6	-2.2
5	7.5	6.4	6.4	4.3	0.0	0.0	3.2	4.3	4.3	2.2	0.0	0.0	0.0	0.0	3.3	6.5	6.5	1.1	-1.1	0.0	1.1	1.1	1.1	3.2	2.5	7.5	-1.1
6	4.3	3.2	1.1	1.1	2.2	0.0	2.2	-1.1	0.0	5.4	4.3	3.2	3.2	4.3	1.1	-3.2	0.0	3.2	3.2	3.2	1.1	1.1	0.0	-3.2	1.7	5.4	-3.2
7	-1.1	1.1	-2.1	0.0	0.0	0.0	5.3	4.3	0.0	1.1	5.4	19.6	2.2	1.1	2.2	4.4	6.6	5.5	1.1	1.1	3.2	5.4	5.4	5.4	3.2	19.6	-2.1
8	4.3	5.4	6.5	8.7	6.5	4.3	6.5	5.4	3.3	7.6	9.8	4.4	1.1	4.4	6.6	3.3	5.5	6.6	1.1	0.0	5.5	5.5	6.5	6.5	5.2	9.8	0.0
9	7.6	9.8	7.6	5.4	6.5	5.4	18.3	18.4	20.7	13.1	13.1	9.9	5.5	5.5	7.8	44.1	60.3	15.3	14.1	11.9	11.9	17.2	17.2	14.0	15.0	60.3	5.4
10	15.0	14.0	7.5	9.7	11.8	9.7	10.8	12.9	19.4	20.7	52.5	19.8	12.1	11.1	25.4	17.6	15.4	18.6	17.4	20.6	17.3	15.2	17.3	15.1	16.9	52.5	7.5
11	12.9	11.8	15.0	12.9	9.6	5.4	5.4	8.6	8.6	10.8	13.0	12.0	9.9	6.6	--	8.8	18.6	8.7	10.8	13.0	11.9	10.8	8.7	7.6	10.5	18.6	5.4
12	6.5	6.5	4.3	5.4	7.6	6.5	6.5	6.4	8.6	10.8	7.6	6.6	6.6	3.3	2.2	5.5	7.7	7.7	9.8	8.7	7.6	10.8	11.8	11.8	7.4	11.8	2.2
13	12.9	11.8	8.6	8.6	10.7	6.4	4.3	2.1	3.2	0.0	-1.1	0.0	-2.1	-1.1	-1.1	0.0	1.1	1.1	1.1	0.0	2.1	2.1	-1.1	0.0	2.9	12.9	-2.1
14	2.1	4.2	7.3	5.2	4.2	6.2	6.2	5.2	4.2	4.2	2.1	2.1	2.1	1.1	-2.1	-3.2	0.0	1.1	-1.1	-3.2	1.1	4.2	5.2	5.2	2.7	7.3	-3.2
15	4.2	4.2	4.2	2.1	1.1	2.1	1.1	1.0	2.1	4.2	2.1	-1.1	0.0	3.2	4.3	2.2	1.1	-1.1	0.0	0.0	1.1	3.2	3.2	4.3	2.0	4.3	-1.1
16	2.1	-1.1	0.0	1.1	1.1	2.1	3.2	9.5	8.5	3.2	3.2	2.2	4.3	6.5	4.3	4.3	6.4	8.6	7.5	8.5	10.6	10.6	11.6	11.6	5.4	11.6	-1.1
17	12.7	20.1	23.3	15.8	17.8	13.6	13.6	13.6	10.5	6.3	2.1	0.0	2.1	4.2	2.1	0.0	0.0	1.1	5.3	4.2	0.0	2.1	3.1	3.1	7.4	23.3	0.0
18	1.1	-2.1	-1.0	1.1	1.1	0.0	-2.1	0.0	5.3	6.3	10.6	8.5	3.2	3.2	4.3	1.1	0.0	2.1	2.1	4.2	5.2	5.2	4.2	2.1	2.7	10.6	-2.1
19	3.1	4.2	0.0	-2.1	0.0	0.0	1.0	-1.0	2.1	5.2	4.2	2.1	0.0	0.0	3.2	-1.1	-3.2	3.2	5.3	5.3	5.2	4.2	2.1	2.1	1.9	5.3	-3.2
20	3.2	2.1	0.0	1.1	1.1	0.0	3.1	2.1	-2.1	-2.1	2.1	1.1	-1.1	1.1	4.3	3.2	1.1	4.3	6.3	2.1	1.1	4.2	4.2	4.2	1.9	6.3	-2.1
21	2.1	3.1	6.3	4.2	0.0	2.1	4.2	1.1	0.0	2.1	2.1	2.1	7.5	7.5	3.2	4.3	5.3	6.4	9.5	10.6	12.7	12.6	9.5	6.3	5.2	12.7	0.0
22	6.3	7.4	6.3	6.3	9.4	15.7	14.7	12.6	11.6	14.8	17.0	7.5	8.6	9.7	50.5	6.5	7.5	8.6	11.7	11.7	9.5	11.6	11.6	11.6	12.0	50.5	6.3
23	11.6	12.6	16.9	20.0	13.7	12.7	8.5	3.2	4.2	4.2	5.3	6.4	6.4	4.3	1.1	1.1	1.1	1.1	-1.1	-1.1	-1.1	-1.1	-3.1	0.0	5.3	20.0	-3.1
24	7.3	8.4	16.7	9.4	6.3	0.0	1.1	4.2	2.1	-2.1	-3.2	-2.1	0.0	1.1	3.2	6.5	2.1	2.1	3.2	2.1	3.2	2.1	3.2	3.2	3.3	16.7	-3.2
25	3.2	3.2	3.2	2.1	1.1	5.3	3.2	2.1	0.0	0.0	2.2	4.3	4.3	1.1	5.4	8.6	8.6	10.7	15.9	16.9	17.9	13.6	11.5	9.4	6.4	17.9	0.0
26	9.4	9.4	6.2	6.2	8.2	10.3	9.3	10.3	10.3	5.2	2.1	0.0	-1.1	2.1	4.2	2.1	3.1	3.1	4.2	6.2	8.3	8.2	7.2	4.1	5.8	10.3	-1.1
27	2.1	1.0	0.0	2.1	5.1	4.1	5.1	4.1	6.2	7.3	2.1	0.0	0.0	2.1	1.1	2.1	4.2	7.3	5.2	8.3	11.3	5.2	3.1	5.2	3.9	11.3	0.0
28	6.2	6.2	4.1	-1.0	-1.0	-1.0	-2.1	-1.0	1.0	1.0	-1.1	-1.1	-1.1	-1.1	1.1	5.3	7.4	9.5	15.7	5.2	6.2	9.3	7.2	5.2	3.3	15.7	-2.1
29	5.2	2.1	0.0	1.0	1.0	1.0	7.2	10.3	25.9	8.4	5.3	3.2	3.2	1.1	1.1	3.2	9.6	18.0	8.4	8.4	6.3	6.3	3.2	-1.1	5.8	25.9	-1.1
30	1.1	4.2	2.1	3.1	4.2	6.3	5.2	4.2	3.2	7.4	7.6	3.3	--	--	43.4	7.6	7.6	7.5	5.3	4.2	5.3	6.3	9.5	8.4	7.1	43.4	1.1
31	6.3	10.6	13.8	11.6	8.5	7.4	4.2	5.3	7.4	8.5	7.4	6.3	4.1	-1.0	-1.0	1.0	-1.0	0.0	2.1	1.0	0.0	1.0	0.0	-1.0	4.3	13.8	-1.0
Avg	5.6	6.1	5.9	5.3	5.5	4.6	5.5	5.5	6.1	5.5	6.4	4.5	3.7	3.5	7.3	5.4	6.8	6.5	6.8	5.9	6.1	6.4	6.2	5.5	5.7	--	--
Max	15.0	20.1	23.3	20.0	20.7	15.7	18.3	18.4	25.9	20.7	52.5	19.8	17.5	12.1	50.5	44.1	60.3	29.4	26.0	20.6	17.9	17.2	17.3	15.1	--	60.3	--
Min	-2.2	-2.1	-2.1	-2.1	-1.0	-1.0	-2.1	-1.1	-2.1	-2.1	-3.2	-2.1	-2.1	-1.1	-2.1	-3.2	-3.2	-1.1	-1.1	-3.2	-1.1	-1.1	-3.1	-3.2	--	--	-3.2

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table126, conc_PM2.5_µg/m^3 Actual"
Month: Oct 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	4.0	7.0	4.0	2.0	1.0	1.0	4.0	5.0	5.0	4.0	2.0	3.0	4.0	3.0	1.0	-2.0	0.0	4.0	4.0	4.0	4.0	6.0	5.0	3.2	7.0	-2.0
2	3.0	5.0	6.0	2.0	0.0	3.0	5.0	4.0	4.0	1.0	-2.0	-2.0	0.0	1.0	-2.0	0.0	0.0	-1.0	3.0	6.0	6.0	5.0	4.0	4.0	2.3	6.0	-2.0
3	2.0	1.0	2.0	3.0	4.0	5.0	3.0	2.0	1.0	-2.0	-2.0	1.0	-1.0	-2.0	0.0	0.0	-1.0	0.0	2.0	4.0	4.0	4.0	2.0	-2.0	1.3	5.0	-2.0
4	-3.0	1.0	2.0	0.0	-2.0	-2.0	1.0	2.0	3.0	3.0	-2.0	-2.0	1.0	0.0	0.0	0.0	2.0	2.0	-1.0	0.0	3.0	6.0	6.0	5.0	1.0	6.0	-3.0
5	4.0	4.0	5.0	5.0	6.0	6.0	4.0	7.0	4.0	-1.0	0.0	0.0	-1.0	-1.0	-2.0	-1.0	-2.0	0.0	5.0	5.0	3.0	1.0	0.0	-1.0	2.1	7.0	-2.0
6	0.0	1.0	1.0	3.0	4.0	1.0	4.0	6.0	4.0	1.0	1.0	5.0	6.0	3.0	6.0	6.0	4.0	5.0	5.0	4.0	4.0	3.0	3.0	4.0	3.5	6.0	0.0
7	4.0	4.0	2.0	1.0	0.0	3.0	3.0	2.0	2.0	3.0	6.0	2.0	-3.0	-2.0	-2.0	-3.0	-1.0	7.0	10.0	6.0	7.0	7.0	7.0	10.0	3.1	10.0	-3.0
8	11.0	11.0	10.0	9.0	6.0	5.0	6.0	4.0	1.0	2.0	1.0	0.0	3.0	1.0	-1.0	3.0	1.0	-2.0	-3.0	-1.0	2.0	0.0	-1.0	-3.0	2.7	11.0	-3.0
9	-2.0	1.0	-2.0	-2.0	3.0	6.0	5.0	5.0	6.0	5.0	6.0	5.0	4.0	3.0	2.0	1.0	2.0	3.0	2.0	1.0	3.0	3.0	3.0	4.0	2.8	6.0	-2.0
10	2.0	2.0	4.0	4.0	3.0	3.0	4.0	6.0	3.0	1.0	3.0	4.0	1.0	-1.0	0.0	0.0	1.0	4.0	5.0	6.0	5.0	5.0	6.0	7.0	3.3	7.0	-1.0
11	5.0	4.0	4.0	2.0	2.0	5.0	5.0	5.0	5.0	5.0	6.0	6.0	3.0	2.0	4.0	5.0	7.0	9.0	7.0	4.0	4.0	7.0	7.0	6.0	5.0	9.0	2.0
12	3.0	5.0	7.0	7.0	9.0	7.0	4.0	7.0	7.0	4.0	4.0	4.0	4.0	3.0	0.0	-1.0	2.0	4.0	4.0	3.0	5.0	4.0	2.0	1.0	4.1	9.0	-1.0
13	1.0	1.0	1.0	2.0	3.0	3.0	3.0	3.0	0.0	-1.0	2.0	3.0	1.0	0.0	-1.0	0.0	2.0	2.0	1.0	2.0	2.0	2.0	3.0	3.0	1.6	3.0	-1.0
14	0.0	-2.0	0.0	2.0	4.0	3.0	1.0	0.0	-2.0	0.0	1.0	-1.0	-1.0	0.0	0.0	-1.0	-2.0	--	--	--	--	--	--	--	--	4.0	-2.0
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1.0	0.0	0.0	1.0	18.0	2.0	5.0	4.0	1.0	2.0	--	18.0	-1.0
16	5.0	5.0	2.0	1.0	2.0	4.0	5.0	4.0	2.0	-2.0	-2.0	1.0	1.0	1.0	4.0	5.0	3.0	3.0	5.0	6.0	5.0	4.0	6.0	6.0	3.2	6.0	-2.0
17	3.0	3.0	4.0	3.0	187.0	4.0	2.0	3.0	6.0	5.0	4.0	4.0	2.0	-2.0	-3.0	-1.0	--	3.0	6.0	7.0	5.0	4.0	3.0	1.0	11.0	187.0	-3.0
18	2.0	2.0	3.0	3.0	3.0	4.0	1.0	0.0	0.0	-2.0	-2.0	0.0	1.0	-1.0	-2.0	0.0	4.0	5.0	5.0	4.0	4.0	3.0	3.0	4.0	1.8	5.0	-2.0
19	4.0	3.0	3.0	4.0	0.0	-1.0	4.0	7.0	8.0	7.0	6.0	4.0	4.0	6.0	7.0	6.0	8.0	9.0	6.0	5.0	5.0	2.0	1.0	1.0	4.5	9.0	-1.0
20	-1.0	0.0	3.0	1.0	2.0	2.0	0.0	3.0	2.0	0.0	--	--	--	-1.0	-1.0	0.0	2.0	2.0	0.0	-2.0	0.0	2.0	2.0	4.0	1.0	4.0	-2.0
21	3.0	0.0	-2.0	-3.0	-2.0	1.0	1.0	0.0	1.0	2.0	2.0	2.0	0.0	-1.0	--	--	--	--	--	--	--	--	--	--	--	3.0	-3.0
22	--	--	--	--	--	--	--	--	--	--	--	0.0	-1.0	-1.0	1.0	0.0	0.0	1.0	0.0	2.0	1.0	1.0	1.0	2.0	--	2.0	-1.0
23	5.0	4.0	2.0	2.0	2.0	3.0	5.0	3.0	2.0	3.0	2.0	3.0	1.0	-3.0	-1.0	0.0	1.0	2.0	3.0	4.0	5.0	4.0	1.0	3.0	2.3	5.0	-3.0
24	3.0	2.0	1.0	1.0	1.0	2.0	3.0	0.0	0.0	1.0	0.0	-1.0	-3.0	-4.0	-3.0	-2.0	0.0	2.0	5.0	6.0	2.0	1.0	3.0	4.0	1.0	6.0	-4.0
25	3.0	1.0	1.0	2.0	2.0	1.0	1.0	2.0	2.0	1.0	0.0	0.0	2.0	4.0	6.0	4.0	1.0	4.0	8.0	9.0	10.0	9.0	7.0	7.0	3.6	10.0	0.0
26	7.0	7.0	7.0	5.0	4.0	6.0	8.0	5.0	5.0	4.0	2.0	3.0	3.0	4.0	4.0	4.0	4.0	5.0	6.0	5.0	5.0	6.0	7.0	6.0	5.1	8.0	2.0
27	7.0	5.0	4.0	5.0	5.0	3.0	2.0	6.0	7.0	2.0	1.0	1.0	1.0	2.0	2.0	2.0	1.0	2.0	4.0	5.0	5.0	7.0	9.0	5.0	3.9	9.0	1.0
28	4.0	4.0	4.0	6.0	7.0	6.0	5.0	5.0	3.0	4.0	1.0	-1.0	2.0	3.0	3.0	3.0	5.0	6.0	6.0	5.0	6.0	5.0	5.0	7.0	4.3	7.0	-1.0
29	6.0	6.0	3.0	0.0	6.0	8.0	6.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	2.0	1.0	0.0	1.0	0.0	-1.0	0.0	1.0	2.0	8.0	-1.0
30	1.0	2.0	3.0	0.0	0.0	2.0	3.0	3.0	2.0	2.0	2.0	2.0	1.0	-2.0	0.0	2.0	1.0	3.0	3.0	1.0	1.0	2.0	2.0	2.0	1.6	3.0	-2.0
31	1.0	1.0	2.0	2.0	2.0	1.0	-1.0	2.0	6.0	6.0	6.0	3.0	2.0	2.0	4.0	5.0	5.0	6.0	7.0	7.0	6.0	6.0	5.0	4.0	3.8	7.0	-1.0
Avg	2.9	3.0	3.1	2.6	9.1	3.3	3.2	3.6	3.1	2.1	1.8	1.7	1.2	0.6	0.9	1.3	1.7	3.0	4.3	3.8	4.0	3.8	3.6	3.5	3.2	--	--
Max	11.0	11.0	10.0	9.0	187.0	8.0	8.0	7.0	8.0	7.0	6.0	6.0	6.0	6.0	7.0	6.0	8.0	9.0	18.0	9.0	10.0	9.0	9.0	10.0	--	187.0	--
Min	-3.0	-2.0	-2.0	-3.0	-2.0	-2.0	-1.0	0.0	-2.0	-2.0	-2.0	-2.0	-3.0	-4.0	-3.0	-3.0	-2.0	-2.0	-3.0	-2.0	0.0	-1.0	-1.0	-3.0	--	--	-4.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table126, conc_PM2.5_μg/m^3 Actual"
Month: Nov 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	6.0	9.0	8.0	10.0	12.0	11.0	--	--	--	--	--	--	--	--	--	--	--	-2.0	-2.0	-1.0	-1.0	-1.0	0.0	--	12.0	-2.0
2	-1.0	2.0	7.0	9.0	11.0	11.0	10.0	9.0	7.0	7.0	7.0	6.0	5.0	5.0	3.0	1.0	0.0	2.0	3.0	6.0	5.0	4.0	2.0	0.0	5.0	11.0	-1.0
3	1.0	1.0	2.0	2.0	4.0	7.0	4.0	2.0	3.0	2.0	-2.0	-2.0	-2.0	-1.0	-1.0	1.0	2.0	3.0	4.0	5.0	6.0	5.0	2.0	2.0	2.1	7.0	-2.0
4	1.0	-2.0	0.0	1.0	2.0	2.0	1.0	3.0	3.0	4.0	0.0	-1.0	3.0	1.0	-1.0	-2.0	-2.0	3.0	2.0	1.0	3.0	2.0	2.0	5.0	1.3	5.0	-2.0
5	4.0	3.0	4.0	2.0	1.0	2.0	2.0	0.0	3.0	3.0	1.0	1.0	-1.0	-3.0	-1.0	3.0	3.0	4.0	3.0	2.0	1.0	0.0	-1.0	0.0	1.5	4.0	-3.0
6	1.0	0.0	1.0	3.0	2.0	2.0	4.0	4.0	0.0	0.0	1.0	-1.0	1.0	3.0	0.0	0.0	-1.0	0.0	1.0	1.0	2.0	4.0	3.0	2.0	1.4	4.0	-1.0
7	2.0	-1.0	0.0	5.0	3.0	1.0	2.0	2.0	0.0	-2.0	0.0	1.0	-2.0	-3.0	0.0	0.0	-2.0	2.0	5.0	4.0	0.0	4.0	5.0	1.0	1.1	5.0	-3.0
8	1.0	3.0	2.0	2.0	5.0	6.0	4.0	2.0	1.0	1.0	0.0	-3.0	-2.0	-1.0	-1.0	0.0	2.0	2.0	0.0	0.0	2.0	3.0	1.0	1.0	1.3	6.0	-3.0
9	-1.0	0.0	4.0	0.0	-1.0	1.0	1.0	0.0	2.0	0.0	-1.0	0.0	-1.0	0.0	-1.0	-1.0	1.0	2.0	3.0	4.0	3.0	3.0	3.0	5.0	1.1	5.0	-1.0
10	4.0	4.0	4.0	3.0	5.0	4.0	4.0	4.0	3.0	5.0	4.0	0.0	-1.0	2.0	4.0	4.0	3.0	2.0	2.0	2.0	3.0	6.0	5.0	2.0	3.3	6.0	-1.0
11	2.0	3.0	4.0	5.0	6.0	5.0	4.0	3.0	5.0	5.0	-2.0	-3.0	-2.0	-1.0	1.0	0.0	-3.0	-1.0	3.0	6.0	5.0	3.0	5.0	4.0	2.4	6.0	-3.0
12	2.0	3.0	3.0	3.0	1.0	0.0	3.0	4.0	3.0	4.0	2.0	0.0	0.0	-1.0	2.0	4.0	5.0	4.0	4.0	3.0	4.0	3.0	4.0	5.0	2.7	5.0	-1.0
13	1.0	2.0	4.0	4.0	3.0	5.0	6.0	2.0	-1.0	1.0	3.0	1.0	1.0	0.0	0.0	1.0	1.0	4.0	5.0	4.0	4.0	4.0	2.0	2.0	2.5	6.0	-1.0
14	4.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	2.0	1.0	0.0	1.0	1.0	3.0	6.0	6.0	3.0	2.0	3.0	4.0	4.0	5.0	5.0	5.0	3.3	6.0	0.0
15	3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.0	3.0
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1.0	-2.0	-1.0	1.0	2.0	1.0	5.0	6.0	5.0	--	6.0	-2.0
18	4.0	2.0	2.0	5.0	6.0	3.0	1.0	1.0	3.0	1.0	3.0	3.0	1.0	-1.0	1.0	0.0	-1.0	0.0	2.0	1.0	3.0	3.0	1.0	0.0	1.8	6.0	-1.0
19	-1.0	2.0	5.0	5.0	5.0	4.0	3.0	2.0	5.0	5.0	2.0	-1.0	0.0	-1.0	0.0	0.0	1.0	3.0	6.0	7.0	5.0	4.0	4.0	3.0	2.8	7.0	-1.0
20	4.0	6.0	6.0	5.0	5.0	6.0	3.0	1.0	1.0	1.0	1.0	-3.0	-4.0	-1.0	2.0	2.0	3.0	3.0	23.0	7.0	48.0	5.0	2.0	1.0	5.3	48.0	-4.0
21	1.0	-1.0	0.0	3.0	3.0	3.0	3.0	2.0	2.0	1.0	0.0	0.0	-1.0	1.0	0.0	0.0	4.0	5.0	7.0	7.0	5.0	4.0	4.0	6.0	2.5	7.0	-1.0
22	6.0	7.0	9.0	8.0	6.0	6.0	7.0	6.0	5.0	4.0	3.0	0.0	1.0	2.0	0.0	1.0	4.0	5.0	6.0	8.0	6.0	5.0	5.0	4.0	4.8	9.0	0.0
23	6.0	5.0	4.0	3.0	3.0	6.0	9.0	8.0	5.0	2.0	4.0	10.0	11.0	7.0	3.0	-1.0	-1.0	1.0	1.0	2.0	2.0	3.0	2.0	5.0	4.2	11.0	-1.0
24	9.0	7.0	6.0	5.0	5.0	7.0	7.0	8.0	3.0	2.0	3.0	0.0	0.0	1.0	3.0	3.0	3.0	3.0	5.0	8.0	5.0	2.0	2.0	2.0	4.1	9.0	0.0
25	1.0	2.0	5.0	6.0	3.0	0.0	3.0	5.0	3.0	0.0	0.0	0.0	-4.0	-4.0	-2.0	-1.0	-2.0	0.0	2.0	2.0	2.0	6.0	4.0	-1.0	1.3	6.0	-4.0
26	0.0	0.0	0.0	2.0	4.0	4.0	4.0	4.0	1.0	-2.0	0.0	1.0	0.0	0.0	1.0	3.0	5.0	7.0	8.0	5.0	4.0	2.0	2.0	2.0	2.4	8.0	-2.0
27	3.0	1.0	0.0	1.0	0.0	1.0	3.0	1.0	0.0	0.0	-1.0	0.0	-1.0	-3.0	-3.0	1.0	0.0	-1.0	0.0	3.0	5.0	2.0	1.0	2.0	0.6	5.0	-3.0
28	1.0	0.0	0.0	1.0	2.0	1.0	1.0	0.0	2.0	2.0	0.0	-2.0	-3.0	-1.0	1.0	0.0	-1.0	1.0	5.0	4.0	1.0	1.0	1.0	2.0	0.8	5.0	-3.0
29	3.0	3.0	1.0	4.0	5.0	4.0	5.0	6.0	5.0	3.0	0.0	-3.0	-2.0	0.0	0.0	-2.0	0.0	3.0	3.0	3.0	3.0	2.0	4.0	4.0	2.3	6.0	-3.0
30	2.0	2.0	3.0	3.0	2.0	2.0	2.0	3.0	3.0	3.0	5.0	5.0	3.0	1.0	-1.0	-3.0	-3.0	2.0	5.0	4.0	3.0	4.0	4.0	5.0	2.5	5.0	-3.0
Avg	2.4	2.4	3.3	3.7	3.9	4.0	4.1	3.3	2.7	2.0	1.3	0.4	0.0	0.2	0.6	0.7	0.8	2.2	3.9	3.7	4.8	3.3	2.8	2.6	2.5	--	--
Max	9.0	7.0	9.0	9.0	11.0	12.0	11.0	9.0	7.0	7.0	7.0	10.0	11.0	7.0	6.0	6.0	5.0	7.0	23.0	8.0	48.0	6.0	6.0	6.0	--	48.0	--
Min	-1.0	-2.0	0.0	0.0	-1.0	0.0	1.0	0.0	-1.0	-2.0	-2.0	-3.0	-4.0	-4.0	-3.0	-3.0	-3.0	-1.0	-2.0	-2.0	-1.0	-1.0	-1.0	-1.0	--	--	-4.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table126, conc_PM2.5_µg/m^3 Actual"
Month: Dec 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	3.0	3.0	4.0	4.0	4.0	3.0	3.0	4.0	0.0	-3.0	-1.0	-2.0	-1.0	3.0	4.0	3.0	5.0	5.0	1.0	-1.0	1.0	0.0	2.1	5.0	-3.0
2	1.0	5.0	5.0	4.0	2.0	2.0	5.0	3.0	4.0	3.0	1.0	3.0	4.0	4.0	0.0	2.0	7.0	6.0	6.0	5.0	3.0	5.0	6.0	8.0	3.9	8.0	0.0
3	7.0	6.0	6.0	4.0	3.0	3.0	2.0	0.0	1.0	0.0	1.0	3.0	1.0	-1.0	0.0	3.0	2.0	4.0	3.0	0.0	1.0	3.0	4.0	3.0	2.5	7.0	-1.0
4	2.0	3.0	4.0	2.0	0.0	1.0	3.0	5.0	5.0	0.0	-2.0	0.0	1.0	1.0	1.0	1.0	3.0	4.0	5.0	4.0	6.0	8.0	8.0	4.0	2.9	8.0	-2.0
5	3.0	6.0	5.0	5.0	6.0	4.0	2.0	3.0	3.0	0.0	-1.0	2.0	1.0	1.0	3.0	2.0	1.0	2.0	4.0	4.0	1.0	2.0	3.0	2.0	2.7	6.0	-1.0
6	2.0	3.0	2.0	6.0	7.0	4.0	5.0	3.0	0.0	1.0	3.0	4.0	0.0	0.0	3.0	3.0	5.0	2.0	1.0	5.0	5.0	2.0	2.0	3.0	3.0	7.0	0.0
7	4.0	4.0	1.0	1.0	2.0	1.0	2.0	0.0	2.0	1.0	0.0	1.0	-1.0	-2.0	-1.0	1.0	3.0	2.0	4.0	5.0	4.0	5.0	6.0	5.0	2.1	6.0	-2.0
8	5.0	5.0	3.0	2.0	0.0	-1.0	-1.0	2.0	3.0	2.0	3.0	2.0	1.0	1.0	-1.0	0.0	2.0	2.0	1.0	-3.0	1.0	--	--	--	1.4	5.0	-3.0
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0	3.0	2.0	5.0	4.0	2.0	3.0	6.0	5.0	4.0	--	6.0	2.0
31	3.0	8.0	18.0	9.0	6.0	3.0	3.0	5.0	3.0	3.0	5.0	7.0	6.0	5.0	6.0	5.0	1.0	6.0	6.0	4.0	6.0	4.0	3.0	4.0	5.4	18.0	1.0
Avg	3.6	4.9	5.2	4.0	3.3	2.3	2.8	2.7	2.7	1.6	1.1	2.1	1.3	0.8	1.6	2.3	3.0	3.6	3.9	3.1	3.1	3.8	4.2	3.7	2.9	--	--
Max	7.0	8.0	18.0	9.0	7.0	4.0	5.0	5.0	5.0	4.0	5.0	7.0	6.0	5.0	6.0	5.0	7.0	6.0	6.0	5.0	6.0	8.0	8.0	8.0	--	18.0	--
Min	1.0	3.0	1.0	1.0	0.0	-1.0	-1.0	0.0	0.0	0.0	-2.0	-3.0	-1.0	-2.0	-1.0	0.0	1.0	2.0	1.0	-3.0	1.0	-1.0	1.0	0.0	--	--	-3.0

-- Indicates Invalid Data

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

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: Oct 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	-1.6	-2.0	-2.0	-2.3	-2.2	2.2	-0.5	-0.5	0.0	-1.8	-1.8	-1.9	-2.0	-2.0	-2.3	-2.3	-2.5	-2.3	-1.9	-1.6	-1.9	-1.8	-2.0	-2.5	-1.7	2.2	-2.5
2	-2.6	-1.7	-0.9	-1.5	-1.3	-2.5	-2.3	-2.2	-2.1	-2.4	-2.1	-1.7	-0.8	-1.2	-0.5	-1.5	-0.3	-1.8	-2.0	-1.3	-1.6	-2.6	-2.3	-2.5	-1.7	-0.3	-2.6
3	-2.6	-2.1	-2.0	-2.2	-2.1	-1.6	-0.7	--	--	0.2	1.0	1.1	0.7	3.3	0.1	-0.6	-0.5	-0.6	0.2	0.7	1.4	5.0	0.8	0.0	0.0	5.0	-2.6
4	-0.3	-0.6	-0.5	-0.4	-0.2	0.0	-0.2	-0.1	0.5	0.1	1.3	1.8	0.0	-0.6	-0.9	-1.0	-1.0	-0.8	-0.8	-0.2	-0.3	-0.7	-0.5	-0.4	-0.2	1.8	-1.0
5	-0.4	0.0	0.3	0.2	0.1	1.3	1.2	3.7	12.4	-0.4	-0.2	-0.2	-0.7	-1.0	-1.0	-1.1	-1.1	-1.1	-0.6	-0.4	-0.1	5.4	0.8	-0.5	0.7	12.4	-1.1
6	-0.8	-1.0	-1.0	-0.3	2.1	-0.2	-0.4	1.9	5.9	1.7	4.2	3.1	0.4	-0.4	-0.6	-0.7	-0.9	-1.0	-0.5	-0.1	0.9	-0.1	-0.4	-1.0	0.4	5.9	-1.0
7	-1.1	-0.6	-1.2	-0.9	-1.2	-1.4	-1.3	3.8	3.0	6.1	4.3	2.4	0.5	0.0	-0.9	-0.8	0.0	0.4	0.7	1.3	0.7	1.1	4.1	7.5	1.1	7.5	-1.4
8	3.3	9.2	9.5	9.9	8.4	4.8	0.7	0.6	0.8	1.6	1.4	1.9	2.2	1.5	1.8	1.4	1.3	0.9	1.8	4.0	0.7	-0.2	-0.1	-0.2	2.8	9.9	-0.2
9	-0.5	-0.6	-0.9	-0.9	-0.7	-0.4	-0.1	-0.5	0.2	0.5	0.3	0.5	0.6	0.4	0.3	2.0	0.8	0.2	0.2	1.4	0.2	2.0	1.3	2.0	0.3	2.0	-0.9
10	1.6	3.6	1.3	2.2	1.3	0.5	0.6	2.5	3.7	1.7	1.2	1.2	1.0	1.2	--	0.4	0.1	-0.1	0.2	0.4	0.1	0.9	0.5	0.7	1.2	3.7	-0.1
11	-0.2	-0.1	0.1	0.7	2.0	2.0	1.8	1.6	1.5	1.9	1.6	0.9	1.0	1.0	0.6	0.1	-0.2	-0.5	-0.4	-0.3	2.1	2.3	3.4	3.0	1.1	3.4	-0.5
12	2.6	-0.3	0.9	0.9	0.1	1.0	1.2	3.8	4.4	0.4	0.8	0.3	0.1	0.0	-0.3	-0.4	-0.6	-0.7	-0.8	-0.6	-0.8	-0.9	0.5	-0.7	0.5	4.4	-0.9
13	-0.1	-0.1	0.0	-0.7	-0.9	-0.8	-1.1	-0.2	-0.5	-0.4	0.6	0.3	-0.1	0.2	0.0	-0.3	-0.6	0.9	0.1	1.3	0.0	2.2	2.6	0.5	0.1	2.6	-1.1
14	-0.3	0.9	0.5	-0.3	-0.5	0.0	-0.1	0.5	1.7	2.7	1.3	0.3	0.1	0.1	-0.3	-0.7	-0.6	-0.5	-0.5	-0.1	0.0	0.3	1.9	1.6	0.3	2.7	-0.7
15	2.1	0.9	0.6	1.2	1.1	0.5	0.8	1.1	2.1	2.1	1.2	-0.7	1.4	0.1	-0.3	1.1	3.0	-0.8	-0.2	1.2	1.3	5.9	4.5	1.0	1.3	5.9	-0.8
16	-0.2	2.6	-0.1	2.6	8.7	2.0	-0.1	1.7	3.1	4.1	0.6	0.5	-0.2	-0.4	-0.4	-0.5	-0.4	-0.5	-0.2	0.3	1.9	0.3	0.7	-0.5	1.1	8.7	-0.5
17	-0.6	-0.9	-1.0	-1.1	0.0	-0.7	-0.8	1.1	4.0	3.7	--	1.7	-0.4	1.2	0.8	-1.7	-0.9	0.5	-0.7	-0.1	-1.8	-1.1	-1.8	-1.1	-0.1	4.0	-1.8
18	-1.3	-2.0	-2.2	-2.1	-1.6	-2.4	-2.2	-1.9	-2.5	-1.9	0.3	-1.3	-2.6	-2.7	-2.4	-2.9	-2.6	-2.5	-1.9	-1.2	-2.7	-2.5	-3.2	-3.3	-2.2	0.3	-3.3
19	-1.5	-1.7	-1.1	-0.2	1.8	-0.4	0.5	-0.9	-0.8	-1.1	-1.3	-1.3	-1.4	-1.8	-2.0	-1.9	-2.3	-1.9	-2.5	-1.6	-1.7	-1.6	-1.8	-1.1	-1.2	1.8	-2.5
20	0.1	-0.4	-1.3	-1.7	-2.1	-1.9	-1.9	6.1	-1.6	-1.2	-1.2	-1.6	-1.3	-2.1	0.8	-2.3	-1.9	-1.6	-2.4	-2.1	-2.1	-0.9	-0.6	-1.2	-1.1	6.1	-2.4
21	-1.2	-1.1	-0.8	-1.4	-0.1	0.2	-0.5	-0.6	-1.4	-0.1	-1.5	-1.4	-1.7	-2.5	-2.2	-2.5	-1.9	-0.8	-1.5	-1.5	-1.1	-0.8	-2.1	-2.3	-1.3	0.2	-2.5
22	-2.6	-2.1	-1.6	-1.4	-1.0	-0.7	-2.0	-0.4	-0.1	0.3	0.5	-1.8	-1.8	-2.1	-2.1	-2.7	-2.7	-3.0	-3.0	-2.4	-2.7	-2.9	-2.9	-2.8	-1.8	0.5	-3.0
23	-2.3	-1.3	-2.5	-2.0	-2.3	-2.0	-1.0	-1.3	-0.5	0.3	0.5	0.7	-1.8	-2.1	-2.0	-2.6	-0.7	-2.6	-2.8	-1.2	-2.0	-1.0	-1.6	-2.0	-1.5	0.7	-2.8
24	-2.0	-2.0	-2.2	-2.3	-2.3	-2.0	-1.9	-1.6	-1.5	-0.6	0.1	-0.9	-2.4	-1.8	-1.9	-1.7	-1.5	-2.8	-2.7	2.7	-2.4	-2.8	-2.7	-2.1	-1.7	2.7	-2.8
25	-2.1	-1.1	-2.6	-2.5	-2.5	-2.3	-2.5	-1.8	-2.1	-1.1	-1.4	-2.5	-2.8	-2.2	-2.7	-3.0	-3.2	-3.4	-3.2	-3.1	-1.9	-2.7	-2.8	-2.8	-2.4	-1.1	-3.4
26	-2.1	-2.4	-2.6	-2.7	-2.5	-2.3	-2.2	-1.7	2.3	-0.7	-1.7	-1.3	-0.8	-2.5	-2.8	-3.0	-3.0	-3.3	-3.0	-2.9	0.2	-0.5	-1.7	-1.4	-1.9	2.3	-3.3
27	-2.0	-2.0	-1.2	1.6	-0.8	-1.7	1.5	4.7	3.0	-1.9	-2.0	-2.5	-0.7	-2.7	-2.2	-3.1	-3.1	-3.0	-2.4	-1.8	-1.2	-0.8	-0.7	-0.1	-1.1	4.7	-3.1
28	-1.6	-0.8	-1.7	-2.2	-2.0	-2.1	-1.7	1.5	3.8	1.9	-1.9	-1.5	-0.4	-1.8	-1.5	-2.7	-2.9	-2.8	-2.4	-1.1	-1.7	-2.6	-2.4	-2.6	-1.4	3.8	-2.9
29	-2.8	-2.4	-2.5	-2.4	-2.8	-2.1	-1.5	-1.3	-2.0	-1.5	0.0	-0.7	-0.4	-0.3	-1.8	-2.5	-2.5	-2.2	-2.2	-2.3	-2.4	-1.7	-1.4	-2.3	-1.8	0.0	-2.8
30	-1.8	-2.0	-2.1	-2.6	-2.3	-1.8	-1.2	-1.5	-0.6	--	1.5	-0.7	-1.9	--	-1.6	-1.1	-0.7	-0.9	-0.5	-0.2	0.4	0.6	1.9	1.7	-0.8	1.9	-2.6
31	2.0	0.9	1.7	1.9	1.0	0.7	0.4	-0.3	-0.5	-0.6	-1.2	-1.0	-0.6	-0.6	0.1	-1.0	-1.1	-1.0	-1.2	0.8	1.8	0.0	0.8	-1.2	0.1	2.0	-1.2
Avg	-0.7	-0.4	-0.6	-0.4	-0.2	-0.5	-0.6	0.6	1.2	0.5	0.2	-0.2	-0.5	-0.7	-0.9	-1.3	-1.1	-1.3	-1.2	-0.4	-0.5	-0.1	-0.2	-0.5	-0.4	--	--
Max	3.3	9.2	9.5	9.9	8.7	4.8	1.8	6.1	12.4	6.1	4.3	3.1	2.2	3.3	1.8	2.0	3.0	0.9	1.8	4.0	2.1	5.9	4.5	7.5	--	12.4	--
Min	-2.8	-2.4	-2.6	-2.7	-2.8	-2.5	-2.5	-2.2	-2.5	-2.4	-2.1	-2.5	-2.8	-2.7	-2.8	-3.1	-3.2	-3.4	-3.2	-3.1	-2.7	-2.9	-3.2	-3.3	--	--	-3.4

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: Nov 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	2.5	2.5	7.1	-0.4	-0.8	1.7	2.2	-1.0	-0.9	-1.3	-1.4	-1.7	-1.6	-1.1	-1.8	-2.0	-2.2	-2.2	-2.3	-2.4	-2.3	-2.3	-2.3	-0.5	7.1	-2.4
2	-2.3	-2.1	-2.1	-1.9	-1.7	-1.8	-1.9	-1.8	-1.9	-1.6	-1.6	-1.8	-1.9	-1.7	-1.8	-2.0	-2.0	-2.1	-2.1	-2.1	-0.6	4.0	3.7	-1.6	-1.4	4.0	-2.3
3	-1.5	-0.4	-0.9	2.6	5.7	3.6	1.6	1.6	-1.1	-1.1	-0.9	-0.9	-1.5	-1.1	-1.0	-1.4	-0.1	1.3	0.9	0.5	-0.1	-0.8	2.7	1.0	0.4	5.7	-1.5
4	2.4	-1.3	-2.2	-2.1	-2.0	-1.8	-2.0	-1.6	-1.7	-1.7	-1.5	-1.5	-1.3	-0.8	-0.8	-0.8	-1.9	-1.9	-0.8	-0.5	0.1	-0.2	0.6	0.4	-1.0	2.4	-2.2
5	-1.1	-1.6	-0.7	-1.8	-0.7	-1.6	-0.9	--	--	0.8	0.2	--	--	0.2	0.5	0.3	0.1	0.5	3.1	1.9	2.8	1.4	1.8	2.2	0.4	3.1	-1.8
6	0.6	0.4	0.4	1.4	2.3	2.3	1.5	1.5	1.7	1.2	1.3	0.4	0.5	-0.3	0.7	-0.4	-0.3	1.8	1.7	0.8	1.2	1.2	0.5	0.3	0.9	2.3	-0.4
7	0.2	0.8	0.2	0.7	1.0	1.4	1.5	1.6	1.8	1.9	1.0	1.1	1.2	1.0	1.1	0.5	0.2	0.1	0.5	2.7	1.8	1.1	0.2	-0.1	1.0	2.7	-0.1
8	-0.2	1.3	1.2	0.9	0.5	1.5	1.3	0.7	1.1	1.2	1.7	1.1	0.9	0.0	0.5	0.1	0.1	0.7	2.4	3.3	2.6	2.0	1.5	1.8	1.2	3.3	-0.2
9	1.6	1.0	0.7	0.3	0.6	0.5	6.2	8.0	0.7	0.7	0.5	0.6	0.6	0.1	0.5	0.5	-0.1	-0.4	-0.4	-0.1	1.7	0.3	0.2	0.2	1.0	8.0	-0.4
10	0.3	-0.2	1.2	1.0	1.4	1.0	1.3	2.9	8.4	0.0	0.3	0.0	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3	-0.5	-0.4	-0.3	0.1	-0.1	-0.3	0.6	8.4	-0.5
11	-0.3	-0.2	-0.7	-0.2	-0.6	-0.1	1.9	2.5	8.0	0.4	0.3	0.3	0.1	0.0	0.7	0.1	-0.3	-0.1	-0.5	-0.5	-0.5	-0.4	-0.4	-0.4	0.4	8.0	-0.7
12	0.0	1.2	3.7	2.9	0.1	5.2	3.2	0.3	0.8	0.5	0.3	0.3	0.2	0.1	0.1	-0.1	-0.1	-0.1	0.4	2.2	0.6	1.1	6.3	0.9	1.3	6.3	-0.1
13	0.2	-0.1	-0.1	-0.2	1.1	9.5	12.8	7.6	8.3	2.8	2.1	0.5	0.3	0.2	0.4	--	0.5	0.1	0.0	-0.1	-0.4	1.0	4.0	7.7	2.5	12.8	-0.4
14	3.8	1.7	1.6	10.4	1.4	1.4	2.1	7.8	6.4	1.4	0.4	0.3	-0.1	0.1	0.0	-0.1	0.1	0.2	1.0	2.3	1.2	1.3	1.2	1.1	2.0	10.4	-0.1
15	0.7	0.3	0.1	0.2	6.7	6.5	6.8	6.5	7.0	1.5	0.7	0.6	1.0	0.7	0.2	0.2	0.2	-0.1	-0.2	-0.3	-0.2	0.6	-0.2	-0.2	1.6	7.0	-0.3
16	-0.2	-0.4	-0.2	-0.2	0.0	-0.1	-0.1	0.3	0.4	0.5	0.2	0.3	-0.1	-0.2	-0.3	-0.1	0.0	0.4	0.5	-0.1	-0.2	-0.4	-0.5	-0.6	0.0	0.5	-0.6
17	-0.6	0.2	-0.3	-0.5	5.1	6.8	-0.6	0.0	0.9	0.9	0.5	0.4	0.2	0.3	0.2	0.0	-0.1	0.5	1.0	1.7	2.2	2.0	1.8	0.7	1.0	6.8	-0.6
18	0.3	0.1	0.3	0.3	0.9	1.1	0.6	0.8	1.0	2.0	1.2	1.0	1.0	0.9	0.8	0.8	1.3	2.3	2.6	2.6	1.3	0.9	1.5	1.3	1.1	2.6	0.1
19	1.1	0.5	0.9	0.9	0.8	0.9	1.0	1.0	1.3	2.0	2.7	2.7	1.8	0.9	2.2	0.5	0.1	0.2	5.3	0.8	0.0	0.1	-0.1	-0.2	1.1	5.3	-0.2
20	-0.3	-0.3	-0.4	-0.4	-0.3	-0.3	-0.3	1.5	--	--	--	1.7	2.6	0.5	0.0	-0.3	-0.3	0.0	0.1	2.3	0.9	1.5	0.2	0.3	0.4	2.6	-0.4
21	0.5	-0.4	1.1	1.6	0.4	4.2	3.8	2.9	3.1	5.2	4.7	6.4	3.2	1.0	0.5	2.2	3.5	0.8	4.7	4.6	1.1	3.3	1.4	1.8	2.6	6.4	-0.4
22	0.4	0.6	0.1	0.0	1.0	0.6	0.2	0.5	1.6	0.4	1.5	1.8	0.7	1.1	0.5	0.3	0.4	1.6	1.6	6.4	6.0	4.4	3.0	0.4	1.5	6.4	0.0
23	0.2	0.1	0.5	0.6	0.8	1.0	1.0	1.8	2.1	0.6	1.0	1.3	1.3	0.9	0.4	-0.7	-0.8	-0.6	-0.3	-0.7	0.5	1.4	1.7	1.0	0.6	2.1	-0.8
24	3.0	2.3	3.1	1.8	-0.3	0.7	1.3	1.0	0.3	0.5	2.3	0.2	-0.3	-0.5	-0.3	0.1	1.0	5.4	9.3	2.9	-0.6	-0.5	1.1	0.5	1.4	9.3	-0.6
25	0.5	0.9	0.5	0.8	0.6	0.4	1.0	0.0	1.0	1.8	2.2	1.3	1.5	1.8	0.4	-0.4	-0.6	-0.1	0.7	1.4	1.3	2.7	0.2	0.9	0.9	2.7	-0.6
26	1.4	0.2	-0.1	-0.1	0.1	0.7	2.9	2.1	0.3	5.0	4.6	2.5	2.0	0.4	1.4	1.2	1.8	1.7	2.4	0.8	0.1	-0.2	-0.4	-0.3	1.3	5.0	-0.4
27	0.4	0.2	-0.5	-0.7	-0.5	-0.5	-0.2	0.9	1.6	1.0	1.1	0.4	0.1	0.0	0.2	0.2	-0.2	-0.4	0.4	1.3	0.6	2.0	2.3	1.1	0.5	2.3	-0.7
28	1.5	-0.1	-0.4	-0.4	-0.1	-0.2	-0.1	0.2	0.5	1.0	1.0	1.3	0.6	-0.1	0.1	0.7	0.5	-0.1	4.1	1.6	0.1	-0.3	-0.3	-0.4	0.4	4.1	-0.4
29	-0.3	-0.4	0.0	4.1	1.2	0.1	-0.6	0.6	1.9	6.7	1.1	1.1	-0.3	-0.3	-0.7	-0.7	-0.9	-0.7	1.0	0.1	0.5	-0.2	0.9	2.0	0.7	6.7	-0.9
30	0.6	5.9	2.7	0.0	0.4	1.4	0.9	0.9	0.9	7.5	0.0	-0.1	-0.2	-0.3	-0.6	-0.5	-0.6	-0.6	-0.8	-0.8	-0.8	0.5	0.5	1.5	0.8	7.5	-0.8
Avg	0.5	0.4	0.4	1.0	0.8	1.5	1.6	1.9	2.0	1.5	1.0	0.8	0.4	0.1	0.2	-0.1	0.0	0.3	1.2	1.1	0.7	0.9	1.1	0.7	0.8	--	--
Max	3.8	5.9	3.7	10.4	6.7	9.5	12.8	8.0	8.4	7.5	4.7	6.4	3.2	1.8	2.2	2.2	3.5	5.4	9.3	6.4	6.0	4.4	6.3	7.7	--	12.8	--
Min	-2.3	-2.1	-2.2	-2.1	-2.0	-1.8	-2.0	-1.8	-1.9	-1.7	-1.6	-1.8	-1.9	-1.7	-1.8	-2.0	-2.0	-2.2	-2.2	-2.3	-2.4	-2.3	-2.3	-2.3	--	--	-2.4

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: Dec 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	0.7	1.9	0.8	0.8	1.3	1.7	1.6	2.5	2.7	0.9	2.5	3.1	2.5	2.6	0.9	0.4	1.7	2.6	3.1	1.6	-0.1	1.1	2.4	2.6	1.7	3.1	-0.1
2	1.2	0.3	0.1	0.1	1.1	0.3	0.3	1.3	1.9	1.7	--	--	--	3.0	1.4	2.0	0.1	2.2	0.0	0.8	0.8	0.9	0.9	2.0	1.1	3.0	0.0
3	2.2	1.7	3.2	2.6	2.5	2.7	2.4	2.2	3.0	2.1	3.0	1.1	1.4	1.8	0.3	0.2	0.3	3.3	4.2	2.1	2.4	3.0	3.5	3.4	2.3	4.2	0.2
4	0.9	0.8	0.3	0.8	-0.2	0.1	0.2	0.4	0.4	0.9	1.1	0.3	0.5	0.6	0.3	0.0	0.1	0.9	1.3	1.2	1.5	1.4	1.5	2.8	0.7	2.8	-0.2
5	2.1	2.0	1.4	1.7	2.5	1.4	1.5	1.8	1.0	1.7	1.7	2.2	1.5	1.7	1.7	1.5	1.3	1.6	1.7	1.2	1.3	1.4	0.9	1.5	1.6	2.5	0.9
6	1.7	1.3	1.2	0.9	0.6	0.8	1.0	0.9	9.3	0.8	0.7	1.5	1.2	1.8	1.1	0.1	1.3	1.9	1.7	1.3	0.7	0.5	0.5	0.8	1.4	9.3	0.1
7	1.7	1.3	1.4	0.5	-0.2	-0.5	0.6	1.4	0.1	0.5	1.0	1.4	1.5	0.8	0.6	0.6	0.8	0.9	1.2	0.9	0.7	0.8	0.5	0.7	0.8	1.7	-0.5
8	0.8	0.4	0.5	0.9	1.4	1.7	2.3	1.6	1.7	1.9	1.1	1.7	1.5	1.1	0.5	1.2	1.7	1.1	0.5	0.3	0.6	1.2	1.7	1.2	1.2	2.3	0.3
9	1.0	0.9	1.2	1.6	1.5	2.2	1.8	1.6	1.6	1.8	2.2	2.0	1.8	--	--	--	1.7	3.6	3.3	0.8	-0.1	0.7	0.3	0.6	1.5	3.6	-0.1
10	0.7	0.4	0.4	0.3	1.4	1.1	1.3	0.8	1.3	1.1	4.0	5.7	2.2	2.0	2.2	3.0	2.8	3.6	2.6	2.5	4.0	0.1	0.2	0.5	1.8	5.7	0.1
11	1.3	1.8	6.5	3.8	1.7	2.5	4.2	2.6	1.0	0.4	0.0	-0.2	0.5	1.0	0.2	-0.5	-0.3	-0.5	1.8	2.6	0.3	-0.3	-0.7	-0.9	1.2	6.5	-0.9
12	-0.9	-1.1	-1.1	-1.3	-1.2	-1.0	-1.1	1.1	1.9	2.1	0.1	-0.3	--	0.9	-0.5	0.0	1.4	0.4	-1.1	-1.0	-1.0	0.3	8.1	7.9	0.5	8.1	-1.3
13	1.3	-1.4	-1.6	-1.7	-1.6	-1.7	-1.8	-1.8	-1.9	-1.9	-1.5	-1.5	-1.5	-1.6	-1.4	-1.4	-1.3	-1.2	-1.1	-0.8	-1.2	-1.2	-1.0	-1.2	-1.3	1.3	-1.9
14	-1.0	-1.1	-1.0	1.9	4.3	5.2	4.1	3.4	5.5	2.4	0.1	-0.5	-0.6	-1.0	-1.0	-1.2	-1.0	-1.0	-1.0	-0.3	2.6	1.0	0.1	0.4	0.8	5.5	-1.2
15	0.5	0.4	-0.5	-0.1	-0.1	-0.3	0.2	0.4	0.5	0.2	1.1	0.2	0.0	-0.3	-0.7	-0.4	-0.2	0.5	0.1	1.1	0.7	2.2	0.2	-0.1	0.2	2.2	-0.7
16	1.0	0.3	0.6	-0.5	0.3	1.1	2.9	1.6	1.4	0.5	0.2	-0.4	-0.4	-0.1	-0.1	0.6	0.7	0.8	1.5	2.0	0.6	-0.5	0.9	7.3	0.9	7.3	-0.5
17	9.4	9.7	16.4	17.0	4.6	3.8	3.7	1.7	0.1	-0.6	-0.8	-1.0	-1.1	-1.1	-0.9	-0.8	-1.3	-1.4	-0.9	0.7	1.0	0.1	1.2	2.7	2.6	17.0	-1.4
18	-1.1	-1.3	-0.5	-0.7	-1.2	-1.4	-1.2	-1.0	-0.2	0.8	-1.1	-0.7	-1.3	-1.1	-0.9	-0.9	-1.1	-0.6	-0.6	-0.9	-0.2	0.0	-0.3	3.1	-0.6	3.1	-1.4
19	-0.4	-0.8	0.2	1.2	-0.5	-0.8	-0.5	-0.7	-0.5	--	--	-1.2	-1.6	-2.4	-2.4	-2.8	-3.0	-2.2	-1.3	-1.4	-1.2	-2.1	-2.4	-2.1	-1.3	1.2	-3.0
20	-3.1	-1.8	-2.0	-2.4	-3.0	-2.9	-2.3	-3.0	-2.6	-2.8	-2.3	-1.4	-1.7	-2.5	-2.6	-2.3	-2.4	-2.3	-2.3	-1.3	-2.2	-2.5	0.0	-0.8	-2.2	0.0	-3.1
21	-1.8	-2.6	-2.7	-3.0	-2.7	-2.6	-2.4	-2.5	0.9	-1.0	-1.0	-0.8	-0.2	0.3	-0.8	-1.2	-0.9	-1.1	-0.7	-0.6	-0.3	-1.2	-1.1	-0.8	-1.3	0.9	-3.0
22	-0.8	-0.3	-0.6	-0.7	-0.3	-0.3	-0.7	0.1	1.3	1.4	0.9	1.1	1.2	0.8	0.1	0.0	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.4	0.5	0.1	1.4	-0.8
23	1.1	0.8	0.0	-1.1	-2.2	-2.5	-1.4	2.3	2.0	-2.5	-2.6	-2.8	-2.8	-3.0	-2.9	-3.3	-3.4	-3.5	-3.7	-3.0	-2.0	-2.7	-2.4	-2.9	-1.9	2.3	-3.7
24	-2.7	-3.2	-3.4	-3.3	-3.7	-3.7	-3.6	-3.6	-3.4	-3.6	-2.9	-3.1	-3.1	-3.1	-3.3	-3.0	-1.5	-0.1	-0.9	-1.5	-2.8	-3.4	-3.4	-3.5	-2.9	-0.1	-3.7
25	-3.6	-3.4	-3.5	-3.3	-3.3	-3.1	-3.5	-3.5	-3.3	-3.4	-3.4	-3.5	-3.4	-3.2	-2.4	-1.0	-1.4	-1.2	-1.8	-1.2	-2.1	-2.4	-1.7	-1.2	-2.7	-1.0	-3.6
26	-1.3	-1.6	-1.7	-1.5	-1.0	-2.3	-3.0	-3.1	-2.8	-3.6	-3.3	-2.9	-3.3	-3.5	-3.7	-3.7	-3.3	-3.1	-1.8	-0.2	-0.4	-0.6	-1.3	-1.7	-2.3	-0.2	-3.7
27	-2.6	-2.5	-2.3	-2.1	-2.2	-3.2	-3.6	-3.7	-3.5	-3.5	-3.1	-2.8	-3.0	-3.0	-3.1	-3.3	-3.1	-2.8	-2.9	-2.1	-2.8	-3.2	-2.9	-1.3	-2.9	-1.3	-3.7
28	-3.2	-3.6	-3.6	-3.5	-3.6	-3.2	-3.4	-3.3	-3.3	-3.0	-2.7	-2.8	-2.9	-2.9	-2.4	-2.9	-3.1	-2.9	-2.2	-2.2	-2.1	-2.7	-3.2	-3.3	-3.0	-2.1	-3.6
29	-3.6	-3.6	-3.8	-3.6	-3.5	-3.1	-3.4	-3.3	-2.6	-1.7	-3.3	-3.3	-1.9	-2.1	-2.8	-3.2	-2.5	-2.6	-2.5	-2.6	-2.9	-3.3	-3.2	-3.5	-3.0	-1.7	-3.8
30	-3.6	-3.7	-3.6	-3.6	-3.5	-3.3	-2.5	-0.8	-2.0	-3.1	--	-3.6	-3.4	-3.7	-3.8	-3.7	-3.6	-3.5	-3.8	-3.3	-3.3	-3.1	-2.9	-2.8	-3.2	-0.8	-3.8
31	-1.6	-2.2	-2.3	-3.0	-3.2	-3.2	-3.0	-0.3	0.4	0.1	-2.3	-1.6	-2.2	-2.7	-3.4	-3.5	-3.4	-3.3	-3.4	-3.3	-3.4	-3.4	-3.4	-3.4	-2.5	0.4	-3.5
Avg	-0.1	-0.3	0.0	0.0	-0.5	-0.5	-0.3	-0.1	0.4	-0.3	-0.4	-0.5	-0.6	-0.6	-1.0	-1.0	-0.7	-0.3	-0.3	-0.2	-0.4	-0.6	-0.2	0.3	-0.3	--	--
Max	9.4	9.7	16.4	17.0	4.6	5.2	4.2	3.4	9.3	2.4	4.0	5.7	2.5	3.0	2.2	3.0	2.8	3.6	4.2	2.6	4.0	3.0	8.1	7.9	--	17.0	--
Min	-3.6	-3.7	-3.8	-3.6	-3.7	-3.7	-3.6	-3.7	-3.5	-3.6	-3.4	-3.6	-3.4	-3.7	-3.8	-3.7	-3.6	-3.5	-3.8	-3.3	-3.4	-3.4	-3.4	-3.5	--	--	-3.8

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Oct 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	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	1.3	2.0	1.1	0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.4	2.0	0.1
2	0.2	0.2	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.1	0.9	0.5	0.0	-0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.9	-0.1
3	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.4	1.0	0.3	0.1	0.0	-0.4	-0.6	0.0	-0.1	0.1	0.3	0.6	1.0	1.9	0.2	1.9	-0.6
4	0.9	0.3	0.1	0.1	0.0	0.0	0.0	0.1	0.3	0.4	0.8	0.9	0.8	0.4	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.1	0.1	0.3	0.9	0.0
5	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.9	1.1	0.7	0.3	0.2	0.1	0.0	0.2	0.2	0.2	0.1	0.2	0.1	0.0	0.2	1.1	0.0
6	0.1	0.1	0.1	0.1	0.1	0.1	-0.2	0.0	0.1	0.0	0.1	0.1	0.2	0.6	1.6	1.5	0.7	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.3	1.6	-0.2
7	0.1	0.1	0.0	0.0	0.1	0.1	0.0	--	--	4.1	4.0	3.2	3.4	3.7	1.7	1.3	1.2	1.1	1.1	1.0	0.9	0.8	0.8	0.8	1.3	4.1	0.0
8	0.7	0.8	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.5	0.6	0.6	0.6	0.5	0.7	0.6	0.5	0.4	0.1	0.5	0.8	0.1
9	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.3	0.4	0.4	0.4	0.5	0.3
10	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.2	0.3	0.4	0.5	0.4	0.4	0.5	--	0.1	0.6	0.6	0.5	0.7	0.6	0.5	0.5	0.5	0.4	0.7	0.1
11	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.5	1.8	5.0	3.9	1.9	1.3	1.1	1.3	1.2	1.0	0.9	0.8	0.7	0.3	0.4	0.5	0.5	1.1	5.0	0.3
12	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.6	1.6	3.2	1.7	1.0	0.7	0.6	0.6	0.5	0.5	0.6	0.6	0.6	0.7	0.6	0.4	0.8	3.2	0.4
13	0.4	0.4	0.4	0.4	0.3	0.3	0.6	1.1	1.1	0.6	1.0	0.9	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.5	0.5	0.7	0.7	0.5	0.6	1.1	0.3
14	0.5	0.6	1.2	1.6	1.1	2.4	2.4	1.3	1.6	1.7	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.3	0.3	0.7	0.6	0.9	2.4	0.2
15	0.5	0.4	0.5	2.9	1.0	0.5	0.5	0.4	0.4	0.4	0.2	0.4	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.6	2.9	0.2
16	0.5	0.5	0.5	0.6	0.7	0.4	0.5	0.5	0.7	1.2	0.8	1.1	4.1	3.0	1.4	0.7	0.6	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.9	4.1	0.4
17	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	--	--	--	--	0.3	0.5	0.6	0.5	0.8	0.5	0.4	0.5	0.5	0.5	0.5	0.8	0.3
18	0.5	0.4	0.3	0.4	0.5	0.3	0.3	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.8	0.8	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.4	0.5	0.8	0.3
19	0.4	0.4	0.4	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.6	0.5	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.5	0.7	0.2
20	0.4	0.3	0.2	0.3	0.3	0.3	0.2	0.4	0.3	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.3	0.1	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.4	0.1
21	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.3	0.2	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.2
22	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.4	0.2
23	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.4	0.3	0.3	0.2	0.3	0.4	0.2
24	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.4	0.3	0.2	0.3	0.2	0.2	0.3	0.3	0.5	0.1
25	0.3	0.2	0.3	0.3	0.5	0.3	0.3	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	1.1	1.0	1.0	1.0	0.8	0.6	0.8	0.7	0.5	0.6	1.1	0.2
26	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	1.3	1.7	2.1	1.9	0.9	0.6	0.4	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.7	2.1	0.4
27	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.3
28	0.3	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.3	0.3	0.5	0.8	0.8	0.8	0.8	0.9	1.0	1.0	0.8	0.6	0.6	0.3	0.2	0.5	1.0	0.2
29	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.2
30	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.4	0.4	0.3	0.4	--	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.2
31	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.8	0.8	0.8	0.5	0.8	0.2
Avg	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	--	--
Max	0.9	0.8	1.2	2.9	1.1	2.4	2.4	1.3	1.8	5.0	4.0	3.2	4.1	3.7	1.7	1.5	1.2	1.1	1.1	1.0	0.9	0.8	1.0	1.9	--	5.0	--
Min	0.0	0.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	-0.4	-0.6	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	--	--	-0.6

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Nov 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	0.6	1.3	2.6	3.7	4.3	5.3	1.2	0.9	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	1.2	5.3	0.4
2	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.3	0.4	0.5	0.3
3	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.2	0.2	0.4	0.5	0.3	0.3	0.5	0.4	0.4	0.4	0.5	0.4	0.3	0.4	0.4	0.5	0.2
4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.3
5	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	--	--	0.2	--	--	0.2	0.4	0.0	1.1	0.4	0.1	0.1	0.3	0.4	0.3	0.3	1.1	0.0
6	0.3	-0.5	0.2	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.3	0.2	0.2	0.3	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	-0.5
7	0.3	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.1
8	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.4	0.3	0.3	0.2	0.3	0.4	0.1
9	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.3	0.3	0.1	0.3	0.4	0.4	0.4	0.4	0.6	0.8	0.9	0.8	0.7	0.7	0.7	0.6	0.5	0.9	0.1
10	0.6	0.6	0.5	0.5	0.7	1.2	2.9	3.7	1.9	0.6	0.7	1.0	1.2	0.8	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.9	3.7	0.4
11	0.5	0.5	0.5	0.4	0.5	0.6	0.4	0.5	0.6	0.4	0.4	0.7	0.6	0.5	0.4	0.2	0.3	0.5	0.5	0.4	0.4	0.3	0.4	0.4	0.5	0.7	0.2
12	0.4	0.4	0.4	0.4	0.5	0.4	0.3	0.5	1.0	1.5	1.1	0.8	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.5	1.5	0.3
13	0.4	0.4	0.3	0.3	0.6	0.8	0.6	1.5	1.5	1.0	1.3	0.8	1.0	1.1	0.8	--	--	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.7	1.5	0.3
14	0.4	0.3	0.4	0.4	0.5	0.5	0.5	0.6	1.0	1.0	0.7	0.8	1.0	1.0	0.9	0.6	0.6	0.5	0.6	0.5	0.4	0.4	0.5	0.5	0.6	1.0	0.3
15	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.5	0.3
16	0.5	0.5	0.4	0.3	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.4	0.3	0.5	0.1
17	0.3	0.3	0.3	0.4	0.4	0.2	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.3	0.4	0.3	0.3	0.5	0.3	0.5	0.2
18	0.6	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.4	0.6	0.2
19	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.5	0.5	0.6	0.3	0.6	0.1
20	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.5	--	--	--	1.9	1.6	2.7	4.6	2.9	2.2	3.3	3.3	2.5	2.5	2.2	2.0	1.5	1.8	4.6	0.5
21	1.1	0.8	0.9	1.0	1.8	2.2	3.7	3.6	2.3	1.1	1.0	1.0	1.0	0.8	0.6	0.8	0.9	1.6	1.2	0.8	0.8	0.7	1.0	0.7	1.3	3.7	0.6
22	0.7	0.5	0.7	0.7	0.5	0.4	0.4	0.6	0.6	0.6	0.7	1.0	0.7	1.3	1.6	1.0	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	1.6	0.4
23	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.8	0.6	0.8	0.7	0.6	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.1	0.1	0.6	0.8	0.1
24	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.5	0.6	0.5	0.4	0.4	0.4	0.3	0.5	0.6	0.3
25	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.5	0.3
26	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.5	0.3	0.3	0.4	0.4	0.5	0.2
27	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.4	0.5	0.5	0.5	0.6	0.4
28	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.5	0.6	0.6	0.7	1.0	1.1	1.0	0.8	0.9	1.0	2.8	0.7	2.8	0.4
29	5.3	3.0	1.9	1.7	1.6	2.8	0.8	1.4	1.1	0.8	0.7	1.0	1.1	1.9	1.9	1.3	0.7	0.6	0.6	0.7	0.6	0.7	0.7	0.6	1.4	5.3	0.6
30	0.9	2.3	2.7	1.3	1.2	1.4	1.5	2.2	4.4	5.4	2.6	1.7	2.0	2.0	1.8	1.0	0.5	0.7	0.6	0.6	0.5	0.5	0.5	0.5	1.6	5.4	0.5
Avg	0.6	0.6	0.6	0.5	0.6	0.7	0.8	0.9	0.8	0.7	0.6	0.6	0.6	0.7	0.7	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6	--	--
Max	5.3	3.0	2.7	1.7	2.6	3.7	4.3	5.3	4.4	5.4	2.6	1.9	2.0	2.7	4.6	2.9	2.2	3.3	3.3	2.5	2.5	2.2	2.0	2.8	--	5.4	--
Min	0.3	-0.5	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.0	0.1	0.2	0.1	0.3	0.1	0.2	0.0	0.3	0.2	0.1	0.1	0.3	0.1	0.1	--	--	-0.5

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Dec 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	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.5	0.6	0.8	0.9	1.1	0.9	0.8	0.8	0.7	0.6	0.7	0.7	0.7	0.7	0.8	0.7	1.1	0.5
2	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	--	0.5	0.9	1.2	2.0	2.5	1.6	1.1	0.9	0.8	0.7	0.7	0.9	2.5	0.5
3	0.5	0.6	0.6	0.6	0.7	0.7	0.6	0.8	0.7	0.7	0.6	0.5	0.7	0.7	0.7	0.8	0.8	0.8	0.8	1.0	0.9	0.9	0.9	0.8	0.7	1.0	0.5
4	1.0	0.7	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.3	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6	1.0	0.3
5	0.6	0.5	0.6	0.5	0.4	0.5	0.6	0.5	0.4	0.4	0.5	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.4
6	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.5	0.8	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.4
7	0.5	0.4	0.5	0.5	0.6	0.6	0.5	0.4	0.3	0.5	0.6	0.7	0.9	0.9	0.6	0.6	0.7	0.6	0.8	0.7	1.3	1.0	0.7	0.6	0.7	1.3	0.3
8	1.1	1.3	1.5	1.2	1.5	1.5	1.9	1.9	1.1	0.8	0.5	0.5	0.6	0.5	0.5	0.6	0.5	0.6	0.7	0.6	0.6	0.6	0.9	0.9	0.9	1.9	0.5
9	1.2	0.7	0.7	0.6	0.7	0.9	0.8	1.3	1.1	1.1	0.7	0.6	0.6	0.7	0.7	--	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.7	1.3	0.5
10	1.1	1.6	1.2	0.9	0.9	1.0	1.1	1.2	1.0	1.0	1.3	1.5	1.1	0.8	1.1	1.1	1.1	1.6	1.1	1.2	0.8	0.7	0.7	0.7	1.1	1.6	0.7
11	0.5	0.6	0.6	0.6	0.6	0.6	0.9	0.9	1.0	0.9	1.1	0.8	0.9	1.7	1.3	1.4	1.3	1.4	1.2	1.0	1.1	1.1	1.1	1.2	1.0	1.7	0.5
12	1.2	1.4	1.5	1.2	1.2	1.1	0.9	0.7	0.8	0.9	1.0	0.7	--	0.5	1.5	2.0	2.0	3.6	3.2	2.0	0.8	0.7	0.7	0.6	1.3	3.6	0.5
13	0.6	0.6	0.4	0.5	0.5	0.6	0.6	0.6	0.4	0.4	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.5	0.6	0.4
14	0.6	0.6	0.5	0.5	0.6	0.5	0.5	0.6	0.6	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.6	0.5
15	0.6	0.6	0.5	0.6	0.6	0.5	0.6	0.7	1.5	2.0	1.3	0.8	1.2	0.7	0.8	0.7	1.0	1.1	0.9	0.7	0.7	0.7	0.7	0.7	0.8	2.0	0.5
16	0.7	0.7	0.7	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	1.0	0.8	0.8	0.9	0.9	1.3	1.2	1.2	1.1	1.1	0.9	1.0	1.0	0.9	1.3	0.7
17	1.0	1.1	1.0	0.8	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.6	1.1	0.5
18	0.6	0.4	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.4	0.6	0.7	0.4
19	0.4	0.5	0.5	0.6	0.5	0.6	0.5	0.5	0.5	0.5	--	--	--	1.1	0.4	0.3	0.3	0.3	0.3	0.7	1.4	1.1	1.9	4.7	0.8	4.7	0.3
20	1.8	1.9	2.0	1.5	1.7	0.9	0.6	0.4	0.4	0.8	1.4	2.7	1.2	0.7	0.7	0.8	0.8	0.7	0.6	0.5	0.2	0.4	0.4	0.4	1.0	2.7	0.2
21	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	1.2	2.5	0.4	0.4	0.4	0.7	0.9	1.1	1.2	0.8	0.6	0.5	0.4	0.4	0.4	0.4	0.7	2.5	0.3
22	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.6	0.3
23	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.4	0.4	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	-0.1	0.3	0.3	0.4	-0.1
24	0.3	0.3	1.7	0.9	0.3	0.6	0.4	0.3	0.7	0.4	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.5	1.7	0.3
25	0.4	0.4	0.6	0.8	1.3	1.3	1.3	1.1	1.1	0.8	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.7	1.3	0.4
26	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.1
27	0.2	0.1	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.1
28	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.4	0.4	0.3	0.3	0.4	0.3	0.5	0.1
29	0.3	0.3	0.4	0.3	0.5	0.5	0.6	0.9	0.8	0.7	1.1	1.0	2.0	3.4	2.2	2.2	3.2	4.2	4.1	3.3	3.3	1.9	2.0	1.0	1.7	4.2	0.3
30	0.7	0.6	0.6	0.7	1.7	2.5	2.8	2.3	2.0	1.3	--	0.3	0.5	0.5	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.9	2.8	0.3
31	0.5	0.7	0.6	0.6	1.2	2.7	1.2	1.1	0.7	0.7	0.5	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.3	0.4	0.6	2.7	0.2
Avg	0.7	0.7	0.7	0.6	0.7	0.8	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.8	0.9	0.8	0.7	0.7	0.6	0.6	0.7	0.7	--	--
Max	1.8	1.9	2.0	1.5	1.7	2.7	2.8	2.3	2.0	2.5	1.4	2.7	2.0	3.4	2.2	2.2	3.2	4.2	4.1	3.3	3.3	1.9	2.0	4.7	--	4.7	--
Min	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	-0.1	0.2	--	--	-0.1

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Oct 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	0.053	0.052	0.052	0.052	0.052	0.052	0.053	0.054	0.056	0.057	0.058	0.059	0.060	0.061	0.061	0.062	0.063	0.063	0.063	0.062	0.061	0.059	0.057	0.056	0.057	0.063	0.052
2	0.053	0.051	0.050	0.049	0.048	0.048	0.048	0.049	0.051	0.052	0.053	0.054	0.054	0.054	0.054	0.054	0.053	0.053	0.052	0.052	0.052	0.053	0.052	0.051	0.052	0.054	0.048
3	0.050	0.049	0.049	0.049	0.049	0.050	0.051	0.052	0.054	0.055	0.056	0.057	0.057	0.057	0.056	0.056	0.054	0.053	0.051	0.049	0.048	0.046	0.046	0.044	0.052	0.057	0.044
4	0.043	0.044	0.044	0.045	0.047	0.049	0.051	0.054	0.056	0.058	0.059	0.061	0.062	0.063	0.064	0.064	0.065	0.066	0.066	0.066	0.064	0.063	0.061	0.060	0.057	0.066	0.043
5	0.057	0.054	0.053	0.052	0.052	0.052	0.052	0.053	0.054	0.056	0.057	0.058	0.059	0.059	0.059	0.058	0.058	0.057	0.056	0.055	0.054	0.053	0.053	0.053	0.055	0.059	0.052
6	0.053	0.052	0.051	0.050	0.049	0.050	0.050	0.050	0.051	0.053	0.054	0.055	0.056	0.056	0.055	0.054	0.053	0.053	0.051	0.050	0.049	0.048	0.048	0.048	0.052	0.056	0.048
7	0.048	0.048	0.046	0.045	0.045	0.046	0.046	0.047	0.049	0.051	0.055	0.057	0.059	0.060	0.061	0.060	0.059	0.057	0.053	0.049	0.045	0.041	0.038	0.037	0.050	0.061	0.037
8	0.037	0.037	0.038	0.038	0.039	0.040	0.039	0.038	0.037	0.035	0.034	0.034	0.033	0.032	0.031	0.030	0.029	0.029	0.028	0.028	0.028	0.028	0.028	0.029	0.033	0.040	0.028
9	0.030	0.031	0.033	0.034	0.036	0.037	0.038	0.040	0.041	0.042	0.043	0.044	0.044	0.045	0.043	0.041	0.038	0.036	0.033	0.030	0.028	0.026	0.026	0.026	0.036	0.045	0.026
10	0.027	0.027	0.029	0.031	0.035	0.038	0.041	0.043	0.047	0.051	0.054	0.056	0.058	0.060	0.061	0.060	0.059	0.058	0.056	0.054	0.052	0.049	0.047	0.046	0.047	0.061	0.027
11	0.045	0.044	0.044	0.044	0.044	0.046	0.048	0.050	0.053	0.055	0.057	0.059	0.061	0.060	0.059	0.057	0.056	0.054	0.052	0.051	0.049	0.049	0.050	0.051	0.052	0.061	0.044
12	0.051	0.051	0.052	0.054	0.055	0.055	0.056	0.056	0.058	0.059	0.058	0.057	0.056	0.055	0.054	0.053	0.051	0.049	0.048	0.047	0.046	0.045	0.044	0.043	0.052	0.059	0.043
13	0.043	0.043	0.042	0.042	0.042	0.042	0.042	0.043	0.044	0.045	0.045	0.045	0.045	0.044	0.043	0.042	0.041	0.040	0.040	0.039	0.040	0.040	0.040	0.041	0.042	0.045	0.039
14	0.040	0.040	0.040	0.040	0.041	0.041	0.042	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	0.041	0.041	0.041	0.041	0.043	0.047	0.040
15	0.041	0.041	0.041	0.041	0.042	0.042	0.043	0.044	0.045	0.046	0.048	0.048	0.048	0.047	0.046	0.045	0.045	0.044	0.042	0.042	0.042	0.041	0.042	0.043	0.044	0.048	0.041
16	0.042	0.041	0.041	0.042	0.042	0.044	0.045	0.047	0.049	0.052	0.054	0.056	0.057	0.058	0.059	0.058	0.058	0.057	0.056	0.054	0.051	0.049	0.047	0.046	0.050	0.059	0.041
17	0.044	0.042	0.041	0.041	0.040	0.040	0.040	0.040	--	--	--	--	--	--	0.039	0.039	0.038	0.038	0.037	0.036	0.036	0.035	0.034	0.034	0.039	0.044	0.034
18	0.033	0.033	0.033	0.034	0.034	0.035	0.036	0.037	0.039	0.041	0.042	0.043	0.043	0.043	0.042	0.042	0.042	0.039	0.038	0.037	0.036	0.036	0.037	0.038	0.038	0.043	0.033
19	0.038	0.040	0.042	0.045	0.047	0.049	0.051	0.052	0.052	0.052	0.052	0.051	0.050	0.049	0.048	0.047	0.046	0.045	0.044	0.042	0.042	0.042	0.041	0.041	0.046	0.052	0.038
20	0.039	0.039	0.039	0.039	0.039	0.039	0.040	0.040	0.042	0.043	0.044	0.044	0.044	0.044	0.043	0.043	0.042	0.040	0.039	0.038	0.038	0.037	0.036	0.035	0.040	0.044	0.035
21	0.034	0.034	0.034	0.034	0.035	0.036	0.037	0.038	0.039	0.041	0.041	0.041	0.041	0.040	0.040	0.039	0.039	0.038	0.038	0.037	0.037	0.037	0.037	0.036	0.038	0.041	0.034
22	0.035	0.035	0.034	0.035	0.035	0.037	0.038	0.040	0.042	0.044	0.046	0.048	0.048	0.048	0.047	0.046	0.045	0.044	0.043	0.042	0.041	0.040	0.040	0.039	0.041	0.048	0.034
23	0.037	0.037	0.037	0.036	0.037	0.038	0.039	0.041	0.044	0.045	0.047	0.048	0.048	0.048	0.047	0.045	0.044	0.044	0.043	0.041	0.041	0.041	0.041	0.040	0.042	0.048	0.036
24	0.040	0.040	0.039	0.039	0.040	0.041	0.042	0.043	0.045	0.045	0.047	0.049	0.049	0.050	0.049	0.048	0.048	0.047	0.046	0.044	0.043	0.042	0.041	0.041	0.044	0.050	0.039
25	0.040	0.039	0.039	0.039	0.040	0.039	0.040	0.040	0.041	0.041	0.042	0.042	0.041	0.041	0.042	0.043	0.043	0.043	0.042	0.042	0.041	0.041	0.040	0.039	0.041	0.043	0.039
26	0.038	0.037	0.037	0.037	0.037	0.038	0.039	0.039	0.040	0.042	0.043	0.043	0.043	0.042	0.041	0.041	0.042	0.042	0.041	0.040	0.038	0.037	0.037	0.034	0.040	0.043	0.034
27	0.031	0.029	0.029	0.029	0.030	0.031	0.032	0.034	0.036	0.038	0.039	0.041	0.043	0.045	0.046	0.046	0.047	0.047	0.047	0.046	0.045	0.044	0.044	0.044	0.039	0.047	0.029
28	0.043	0.042	0.042	0.042	0.043	0.043	0.045	0.046	0.048	0.050	0.051	0.053	0.054	0.054	0.054	0.053	0.052	0.051	0.049	0.048	0.046	0.045	0.044	0.043	0.048	0.054	0.042
29	0.042	0.042	0.041	0.041	0.041	0.041	0.042	0.044	0.045	0.046	0.047	0.047	0.047	0.047	0.046	0.045	0.044	0.043	0.043	0.042	0.041	0.041	0.040	0.040	0.043	0.047	0.040
30	0.039	0.039	0.039	0.040	0.040	0.041	0.041	0.042	0.042	0.043	0.043	0.043	0.042	0.041	0.040	0.039	0.039	0.037	0.037	0.036	0.035	0.035	0.035	0.035	0.039	0.043	0.035
31	0.036	0.036	0.037	0.038	0.040	0.041	0.042	0.044	0.045	0.046	0.047	0.048	0.047	0.047	0.046	0.045	0.044	0.042	0.040	0.039	0.037	0.036	0.035	0.034	0.041	0.048	0.034
Avg	0.041	0.041	0.041	0.041	0.042	0.043	0.044	0.045	0.046	0.048	0.049	0.050	0.050	0.050	0.049	0.048	0.048	0.047	0.046	0.044	0.043	0.043	0.042	0.042	0.045	--	--
Max	0.057	0.054	0.053	0.054	0.055	0.055	0.056	0.056	0.058	0.059	0.059	0.061	0.062	0.063	0.064	0.064	0.065	0.066	0.066	0.066	0.064	0.063	0.061	0.060	--	0.066	--
Min	0.027	0.027	0.029	0.029	0.030	0.031	0.032	0.034	0.036	0.035	0.034	0.034	0.033	0.032	0.031	0.030	0.029	0.029	0.028	0.028	0.028	0.026	0.026	0.026	--	--	0.026

-- Indicates Invalid Data

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

-- Indicates Invalid Data

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

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Oct 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	0.059	0.058	0.057	0.055	0.055	0.049	0.049	0.046	0.049	0.055	0.056	0.057	0.059	0.057	0.056	0.057	0.058	0.063	0.066	0.067	0.065	0.060	0.061	0.064	0.057	0.067	0.046
2	0.062	0.060	0.055	0.058	0.051	0.049	0.046	0.045	0.046	0.047	0.048	0.049	0.051	0.053	0.055	0.059	0.057	0.056	0.053	0.048	0.048	0.055	0.055	0.054	0.053	0.062	0.045
3	0.054	0.051	0.051	0.052	0.050	0.048	0.046	0.047	0.050	0.050	0.050	0.053	0.056	0.054	0.058	0.059	0.060	0.061	0.057	0.053	0.053	0.049	0.053	0.049	0.053	0.061	0.046
4	0.045	0.045	0.044	0.044	0.043	0.042	0.042	0.043	0.048	0.050	0.051	0.054	0.061	0.063	0.061	0.060	0.061	0.062	0.064	0.067	0.068	0.065	0.066	0.066	0.055	0.068	0.042
5	0.065	0.065	0.062	0.057	0.057	0.053	0.054	0.045	0.040	0.055	0.057	0.058	0.056	0.056	0.056	0.056	0.058	0.060	0.063	0.064	0.061	0.053	0.053	0.052	0.056	0.065	0.040
6	0.051	0.053	0.055	0.056	0.053	0.053	0.053	0.047	0.043	0.048	0.047	0.051	0.055	0.056	0.057	0.057	0.055	0.055	0.058	0.057	0.052	0.053	0.049	0.048	0.053	0.058	0.043
7	0.048	0.046	0.048	0.048	0.048	0.050	0.048	--	--	0.037	0.042	0.046	0.052	0.052	0.054	0.057	0.065	0.068	0.063	0.060	0.059	0.059	0.053	0.045	0.052	0.068	0.037
8	0.049	0.034	0.033	0.028	0.029	0.038	0.044	0.044	0.044	0.041	0.036	0.035	0.035	0.036	0.035	0.034	0.033	0.032	0.029	0.027	0.030	0.030	0.026	0.027	0.035	0.049	0.026
9	0.029	0.027	0.027	0.029	0.031	0.031	0.032	0.036	0.037	0.039	0.040	0.040	0.042	0.043	0.044	0.044	0.046	0.048	0.048	0.040	0.045	0.028	0.031	0.021	0.037	0.048	0.021
10	0.029	0.021	0.026	0.023	0.025	0.033	0.029	0.026	0.029	0.040	0.046	0.052	0.052	0.053	--	0.056	0.058	0.060	0.064	0.067	0.065	0.059	0.049	0.049	0.044	0.067	0.021
11	0.050	0.048	0.046	0.047	0.045	0.042	0.041	0.039	0.045	0.046	0.048	0.051	0.054	0.057	0.061	0.061	0.062	0.062	0.064	0.065	0.052	0.048	0.045	0.047	0.051	0.065	0.039
12	0.047	0.052	0.049	0.051	0.053	0.052	0.055	0.045	0.050	0.063	0.059	0.060	0.058	0.058	0.058	0.059	0.057	0.055	0.052	0.051	0.051	0.051	0.046	0.045	0.053	0.063	0.045
13	0.043	0.043	0.043	0.044	0.044	0.043	0.043	0.041	0.041	0.041	0.040	0.042	0.045	0.046	0.047	0.048	0.049	0.044	0.042	0.038	0.038	0.038	0.039	0.042	0.043	0.049	0.038
14	0.042	0.039	0.040	0.041	0.041	0.039	0.041	0.040	0.038	0.038	0.042	0.046	0.047	0.048	0.048	0.048	0.047	0.047	0.046	0.045	0.043	0.042	0.041	0.041	0.043	0.048	0.038
15	0.041	0.041	0.041	0.041	0.041	0.042	0.041	0.041	0.039	0.039	0.044	0.047	0.047	0.048	0.047	0.047	0.050	0.052	0.051	0.043	0.042	0.036	0.040	0.043	0.043	0.052	0.036
16	0.045	0.041	0.046	0.043	0.038	0.041	0.044	0.038	0.036	0.044	0.049	0.049	0.051	0.052	0.055	0.058	0.060	0.059	0.063	0.064	0.058	0.055	0.051	0.053	0.050	0.064	0.036
17	0.053	0.052	0.046	0.044	0.040	0.040	0.040	0.040	0.038	0.038	0.045	0.039	0.043	--	--	--	0.040	0.039	0.045	0.035	0.038	0.039	0.038	0.034	0.041	0.053	0.034
18	0.034	0.035	0.035	0.034	0.033	0.032	0.033	0.033	0.034	0.035	0.035	0.039	0.039	0.041	0.040	0.046	0.053	0.047	0.041	0.037	0.038	0.037	0.039	0.040	0.038	0.053	0.032
19	0.035	0.035	0.033	0.034	0.038	0.043	0.044	0.046	0.049	0.052	0.053	0.054	0.053	0.054	0.053	0.050	0.048	0.049	0.050	0.044	0.044	0.044	0.044	0.044	0.046	0.054	0.033
20	0.040	0.039	0.041	0.041	0.041	0.040	0.039	0.033	0.037	0.038	0.041	0.042	0.043	0.045	0.042	0.046	0.046	0.044	0.043	0.042	0.043	0.040	0.038	0.038	0.041	0.046	0.033
21	0.036	0.035	0.037	0.036	0.034	0.032	0.032	0.032	0.034	0.035	0.039	0.039	0.041	0.042	0.043	0.043	0.043	0.040	0.039	0.037	0.037	0.037	0.039	0.038	0.038	0.043	0.032
22	0.038	0.036	0.035	0.037	0.036	0.034	0.035	0.033	0.033	0.034	0.037	0.042	0.045	0.048	0.049	0.050	0.050	0.049	0.050	0.045	0.044	0.041	0.042	0.042	0.041	0.050	0.033
23	0.041	0.039	0.040	0.038	0.038	0.036	0.034	0.033	0.036	0.037	0.038	0.042	0.046	0.049	0.050	0.051	0.049	0.049	0.050	0.042	0.041	0.040	0.042	0.042	0.042	0.051	0.033
24	0.043	0.041	0.040	0.039	0.039	0.040	0.039	0.040	0.040	0.040	0.041	0.044	0.045	0.049	0.049	0.048	0.048	0.049	0.057	0.048	0.049	0.045	0.044	0.042	0.044	0.057	0.039
25	0.043	0.041	0.041	0.041	0.041	0.039	0.039	0.036	0.037	0.040	0.042	0.044	0.040	0.041	0.041	0.042	0.042	0.042	0.041	0.043	0.040	0.046	0.046	0.042	0.041	0.046	0.036
26	0.040	0.039	0.039	0.039	0.039	0.038	0.037	0.034	0.030	0.038	0.040	0.043	0.044	0.044	0.043	0.042	0.043	0.042	0.043	0.043	0.038	0.036	0.043	0.048	0.040	0.048	0.030
27	0.043	0.037	0.034	0.028	0.030	0.030	0.024	0.022	0.026	0.036	0.036	0.037	0.036	0.038	0.039	0.041	0.043	0.045	0.050	0.054	0.048	0.045	0.044	0.044	0.038	0.054	0.022
28	0.047	0.044	0.045	0.044	0.043	0.043	0.042	0.039	0.037	0.045	0.046	0.048	0.049	0.052	0.052	0.054	0.055	0.057	0.060	0.055	0.051	0.050	0.044	0.046	0.048	0.060	0.037
29	0.045	0.044	0.044	0.043	0.044	0.042	0.039	0.038	0.040	0.042	0.041	0.044	0.046	0.048	0.052	0.050	0.049	0.047	0.045	0.043	0.043	0.043	0.043	0.043	0.044	0.052	0.038
30	0.041	0.040	0.039	0.039	0.040	0.040	0.039	0.039	0.039	0.040	0.041	0.044	0.045	0.045	--	--	0.043	0.042	0.040	0.039	0.038	0.037	0.035	0.035	0.040	0.045	0.035
31	0.034	0.035	0.034	0.034	0.037	0.037	0.037	0.037	0.039	0.041	0.044	0.046	0.047	0.048	0.048	0.049	0.049	0.048	0.048	0.044	0.042	0.042	0.039	0.039	0.042	0.049	0.034
Avg	0.044	0.042	0.042	0.042	0.041	0.041	0.041	0.039	0.039	0.043	0.044	0.046	0.048	0.049	0.050	0.051	0.051	0.051	0.051	0.049	0.047	0.045	0.044	0.044	0.045	--	--
Max	0.065	0.065	0.062	0.058	0.057	0.053	0.055	0.047	0.050	0.063	0.059	0.060	0.061	0.063	0.061	0.061	0.065	0.068	0.066	0.067	0.068	0.065	0.066	0.066	--	0.068	--
Min	0.029	0.021	0.026	0.023	0.025	0.030	0.024	0.022	0.026	0.034	0.035	0.035	0.035	0.036	0.035	0.034	0.033	0.032	0.029	0.027	0.030	0.028	0.026	0.021	--	--	0.021

-- Indicates Invalid Data

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

-- Indicates Invalid Data

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

-- Indicates Invalid Data

Appendix D: West Plant Meteorological Site Check Forms

AIR SCIENCES INC.

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

Date: 10/03/2014 Time: 12:27 Operator: K. BaCla

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 RDA DATE 10-14-14
AUDITED BY GG. DATE 10/13/14

GG.

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	6m/s	7.68	4.09	5.77 - 12:00 * 5.15 - 12:15
Direction* 10m (deg)	NE	44.98	50.9	+ 3.6 - 12:45
Ambient Temperature (°C)	30°	31.49	31.4	4.05 - 13:00 +
Relative Humidity (%)	15%	10.97	11	+
Aspirated Temp 2m	30°	31.49	31.41	+
Aspirated Temp 10m	29°	30.00	29.9	+
Delta Temperature (°C)	N/A	-1.49	-1.18	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	878.75	879	+
Barometric Pressure (mmHg)	N/A	685.04	685	+
Battery Voltage (V)	N/A	12.72	12.7	+
Time (MST)	N/A	12:29	12:30 - L.T.	+
Date	N/A	10/03/2014	10/03/2014	+

* 0.012" of precip. invalidated @ 12:45 hrs! GG.

*Direction wind is from

Comments/Unusual Occurrences or Weather: Refilled wap. & tipped gauge ✓ GG.

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

Site Operator Signature: K BaCla

AIR SCIENCES INC.

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

Date: 10/10/2014 Time: 1:29 Operator: K. BaCOd

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 10-17-14
AUDITED BY CG 10/13/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	2ms	1.84	2.28	+
Direction* 10m (deg)	W	245.14	255	+
Ambient Temperature (°C)	27°	25.22	25.3	+
Relative Humidity (%)	50%	55.43	56	+
Aspirated Temp 2m	27°	24.40	24.5	+
Aspirated Temp 10m	24°	23.62	23.8	+
Delta Temperature (°C)	N/A	-0.78	-0.703	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	781.32	806	+
Barometric Pressure (mmHg)	N/A	682.98	683	+
Battery Voltage (V)	N/A	12.77	12.8	+
Time (MST)	N/A	1:32	13:30 L.T.	+
Date	N/A	10/10/2014	10/10/2014	+

*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: K BaCOd

AIR SCIENCES INC.

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

Date: 10-23-2014 Time: 9:45 am Operator: Kane BaCCaC

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

AIR SCIENCES INC.
DENVER PORTLAND
REVIEWED BY RPA DATE 11/3/14
AUDITED BY GG. DATE 11/3/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	5m/s	4.09	2.45	+
Direction* 10m (deg)	WSW	216.40	232	+
Ambient Temperature (°C)	28°	26.55	26.5	+
Relative Humidity (%)	30%	32.79	53	+
Aspirated Temp 2m	28°	25.41	25.5	+
Aspirated Temp 10m	27°	25.08	25.1	+
Delta Temperature (°C)	N/A	-0.33	-0.445	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	588.06	569	+
Barometric Pressure (mmHg)	N/A	685.36	685	+
Battery Voltage (V)	N/A	12.77	12.8	+
Time (MST)	N/A	9:47	9:45 - L.T.	+
Date	N/A	10/23/2014	10/23/2014	+

* 0.012" of precip. invalidated @ 09:45 hrs! GG.

*Direction wind is from

Comments/Unusual Occurrences or Weather: Noise monitoring performed - right at 85 decibels. ✓ GG.

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

Site Operator Signature: Kane BaCCaC

AIR SCIENCES INC.

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

Date: 10/31/2014 Time: 12:23 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 RAA DATE 11/3/14
AUDITED BY GG DATE 11/3/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	3mls	3.68	3.63	+
Direction* 10m (deg)	NE	48.26	76.6	#
Ambient Temperature (°C)	31°	29.89	29.6	+
Relative Humidity (%)	20%	22.15	22.3	+
Aspirated Temp 2m	31°	29.73	29.1	+
Aspirated Temp 10m	30°	28.08	27.8	+
Delta Temperature (°C)	N/A	-1.65	-1.32	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	716.42	718	+
Barometric Pressure (mmHg)	N/A	681.86	682	+
Battery Voltage (V)	N/A	12.74	12.7	+
Time (MST)	N/A	12:25	12:30 - L.T.	+
Date	N/A	10/31/2014	10/31/2014	+

GG
62.1 - 12:00
80.8 + 12:15
116 - 12:45
135 - 13:00

*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: Karen Ballard

AIR SCIENCES INC.

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

Date: 11-7-14 Time: 10:00 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

REVIEWED BY ppA DATE 11/20/14

AUDITED BY GG- DATE 11/24/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	5 mph	6.38	5.35	+
Direction* 10m (deg)	E	71.43	60.8	+
Ambient Temperature (°C)	72° F	20.02	19.6	+
Relative Humidity (%)	20%	28%	28.9	+
Aspirated Temp 2m	72° F	19.46	19	+
Aspirated Temp 10m	70° F	18.43	18.3	+
Delta Temperature (°C)	N/A	-.916	-0.711	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	581.52	563	+
Barometric Pressure (mmHg)	N/A	687.60	688	+
Battery Voltage (V)	N/A	12.85	12.9	+
Time (MST)	N/A	10.00	10:00 L.T.	+
Date	N/A	11-7-14	11/07/2014	+

*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: K Baak

AIR SCIENCES INC.

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

Date: 11/13/2014 Time: 1:30 Operator: K. Bella

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

AIR SCIENCES INC. DENVER · PORTLAND
REVIEWED BY RPA DATE 11/24/14
AUDITED BY GG DATE 11/24/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	3m/s	2.94	3.4	+
Direction* 10m (deg)	E	187.75	161	*
Ambient Temperature (°C)	25°	23.22	22.5	+
Relative Humidity (%)	30%	37.52	39.2	+
Aspirated Temp 2m	25°	22.93	22.3	+
Aspirated Temp 10m	24°	20.97	20.9	+
Delta Temperature (°C)	N/A	-1.91	-1.4	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	602.59	607	+
Barometric Pressure (mmHg)	N/A	682.73	683	+
Battery Voltage (V)	N/A	12.80	12.8	+
Time (MST)	N/A	11/13/2014	13:30 - L.T.	+
Date	N/A	1:32	11/13/2014	+

GG.
169 - 13:00
+ 170 - 13:15
* 159 - 13:45
+ 167 - 14:00

* 0.024" of precip. invalidated @ 13:45 hrs! GG.

*Direction wind is from

Comments/Unusual Occurrences or Weather: Filled evap & tipped gauge ✓ GG.

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

Site Operator Signature: K. Bella

AIR SCIENCES INC.

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

Date: 11/21/2014 Time: 1:37 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 11/29/14
AUDITED BY CC. DATE 11/29/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	2m/s	1.94	1.52	+
Direction* 10m (deg)	SW	216.04	227	+
Ambient Temperature (°C)	20°	19.21	19.3	+
Relative Humidity (%)	15%	20.33	20.3	+
Aspirated Temp 2m	20°	18.65	18.5	+
Aspirated Temp 10m	19°	17.61	17.6	+
Delta Temperature (°C)	N/A	-1.04	-0.826	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	604.088	559	+
Barometric Pressure (mmHg)	N/A	680.22	680	+
Battery Voltage (V)	N/A	12.87	12.9	+
Time (MST)	N/A	1:40	13:45 L.T.	+
Date	N/A	11/21/2014	11/21/2014	+

*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: Karen Ballard

AIR SCIENCES INC.

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

Date: 12/05/2014 Time: 12:44 Operator: Kanu Bacol

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

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY RPA DATE 12/08/14
AUDITED BY GG DATE 12/08/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	3m/s	4.09	3.59	+
Direction* 10m (deg)	E	94.08	103	+
Ambient Temperature (°C)	16°	17.95	17.7	+
Relative Humidity (%)	50%	54.46	53.7	+
Aspirated Temp 2m	16°	17.97	17.5	+
Aspirated Temp 10m	15°	16.65	16.6	+
Delta Temperature (°C)	N/A	-1.36	-0.837	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	478.04	452	+
Barometric Pressure (mmHg)	N/A	686.26	686	+
Battery Voltage (V)	N/A	12.88	12.9	+
Time (MST)	N/A	12:44	12:45 L.T.	+
Date	N/A	12/05/2014	12/05/2014	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: Filled wap. pan. ✓ GG.

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

Site Operator Signature: Kanu Bacol

AIR SCIENCES INC.

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

Date: 12/11/2014 Time: 2:05 Operator: [illegible]

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 1/2/14
AUDITED BY [illegible] DATE 12/15/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	2m/s	2.54	2.59	+
Direction* 10m (deg)	80	198.86	192	+
Ambient Temperature (°C)	23°	22.64	22.2	+
Relative Humidity (%)	30%	28.33	50.5	+
Aspirated Temp 2m	23°	22.10	21.8	+
Aspirated Temp 10m	22°	20.33	20.3	+
Delta Temperature (°C)	N/A	-1.77	-1.44	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	487.45	499	+
Barometric Pressure (mmHg)	N/A	683.10	683	+
Battery Voltage (V)	N/A	12.81	12.8	+
Time (MST)	N/A		14:00 L.T.	+
Date	N/A	12/11/2014	12/11/2014	+

*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: [illegible]

AIR SCIENCES INC.

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

Date: 12/19/2014 Time: 10:10 Operator: Karen McCord

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

AIR SCIENCES INC
DENVER · PORTLAND
REVIEWED BY RPA DATE 1/2/14
AUDITED BY EG. DATE 12/30/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	2m/s	17.32	1.95	+
Direction* 10m (deg)	ESE	0.92	253	*
Ambient Temperature (°C)	8°	11.47	10.7	+
Relative Humidity (%)	50%	44.98	48.2	+
Aspirated Temp 2m	8°	10.72	9.72	+
Aspirated Temp 10m	7°	10.13	9.52	+
Delta Temperature (°C)	N/A	-0.59	-0.206	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	429.21	438	+
Barometric Pressure (mmHg)	N/A	687.99	688	+
Battery Voltage (V)	N/A	12.99	13	+
Time (MST)	N/A	10:18	10:15 L.T.	+
Date	N/A	12/19/2014	12/19/2014	+

EG.
232 - 9:45
+ 257 - 10:00
* 214 - 10:30
+ 244 - 10:45

*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 McCord

AIR SCIENCES INC.

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

Date: 12/30/2014 Time: 12:38 Operator: Karen 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
RPA
REVIEWED BY DATE 1/5/15
AUDITED BY GG- DATE 1/5/15

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	3 m/s	3.89	3.55	+
Direction* 10m (deg)	8°	183.18	186	+
Ambient Temperature (°C)	20°	18.04	17.8	+
Relative Humidity (%)	15%	13.50	14.1	+
Aspirated Temp 2m	20°	17.41	17.1	+
Aspirated Temp 10m	19°	15.06	15.1	+
Delta Temperature (°C)	N/A	-2.34	-1.95	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	618.31	619	+
Barometric Pressure (mmHg)	N/A	680.77	681	+
Battery Voltage (V)	N/A	12.89	12.9	+
Time (MST)	N/A	12:31	12:30 L.T.	+
Date	N/A	12/30/2014	12/30/2014	+

* 0.004" of precip. invalidated @ 12:45 hrs! GG.

*Direction wind is from

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

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

Site Operator Signature: Karen BaCard

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 10/03/2014 Time: 12:30 Operator: K. Bacon

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 9/24 - 10/3 → BAM cal 5% 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.*

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 10-17-14
AUDITED BY GG - DATE 10/13/14

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)

**Comments/Unusual Occurrences: _____

Signature: K. Bacon

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

WEST PLANT

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

AIR SCIENCES INC.

Date: 10/10/2014 Time: 1:33 Operator: K Bullard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 10/06 - 10/10 → BAM Cal Mon b. 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 particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY RDA DATE 10-17-14
AUDITED BY GG - DATE 10/13/14

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)

**Comments/Unusual Occurrences: _____

Signature: Kam Bullard

**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 | FORT COLLINS

Date: 10/23/2014 Time: 9:49 Operator: Kaine BeCO

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 10-18→10-23 → BAM Cal Mem. 5% ✓ 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.

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 | FORT COLLINS
REVIEWED BY RPA DATE 11/3/14
AUDITED BY GG. DATE 11/3/14

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 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: K. BeCO

**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: 10/31/2014 Time: 12:28 Operator: K Bell

I. **BAM SAMPLER** -- Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 10/27 - 10/31 -> BAM Cal Membrane 5% 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 particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY RPA DATE 11/4/14
INITIATED BY GG. DATE 11/3/14

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 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: Karen Bell

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER · PORTLAND

Date: 11-7-14 Time: 10:05 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). 11/7, 11/6, 11/5, 11/4, 11/3 BAM Cal Membrane 5%. ✓ 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 particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC
DENVER · PORTLAND
REVIEWED BY RAA DATE 11/29/14
AUDITED BY GG DATE 11/29/14

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 11/13/2014 Time: 1:33 Operator: Kame BcCl

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 11/9–11/13 → 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) 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

KPA — REVIEWED BY — DATE 11/24/14

AUDITED BY GG - — DATE 11/24/14

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 -

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: Kame BcCl

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 11/21/2014 Time: 1:42 Operator: K. Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). Bam Cal Membrane 5% 11/17 → 11/21 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.*

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 KPA DATE 11/24/14

AUDITED BY GG DATE 11/24/14

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: 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.
DENVER • PORTLAND

Date: 12/05/2014 Time: 12:49 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). 12/01-12/05 → BAM cal memorize 5% ✓ 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.*

YES NO 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 RPM DATE 11/29/14
AUDITED BY 66. DATE 12/08/14

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.

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 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.*

YES NO 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. Ballard

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 12/11/2014 Time: 2:10 Operator: [illegible]

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). BAM Cal Membrane 5% → 12/07-12/11
✓		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.*

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
REVIEWER: RPA DATE 1/2/14
[illegible]: G.G. DATE 12/15/14

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:
* PM10 conc + flow invalidated @ 15:00 hrs! G.G.

Signature: [illegible]

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 12/19/2014 Time: 10:22 Operator: Kam BeCl

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). 12/15 → 12/19 Bam Cal Membrane 5%
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool) ✓ 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 1/2/14
AUDITED BY GG. DATE 12/30/14

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: Kam BeCl

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 12/30/2014 Time: 12:34 Operator: Karne 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). 12/26 – 12/30 → BAM Cut Membrane 5/6 ✓ 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 1/5/15

AUDITED BY GG. DATE 1/5/15

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 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: Karne Ballard

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

West Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

AIR SCIENCES INC

REVIEWED BY RPA DATE 1/5/15

AUDITED BY GG DATE 1/5/15

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

Firmware:

Calibrator: Delta Cal S/N:

Date of Flow Audit: 12/30/2014

Time of Flow Audit: 12:35

	BAM	STD
Ambient Temperature (AT) °c	18.1	19.2
Berometric Pressure mmHg	682	680.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
			GG		GG
(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	18.61	-1.13
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	0.1	**Should be < 1.0 LPM**

Comments/Abnormalities: Self Test "Passed"

Signature: Kami Ballard

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 10/03/2014 Time: 12:29 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). 9/29 → Pressure Delta-Pressure ✓
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool) KB.

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

KB -

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 10-17-14
AUDITED BY KB - DATE 10/13/14

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

KB -

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.*

KB -

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.*

KB -

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

**Comments/Unusual Occurrences: _____

Signature: K. BALLARD

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 10/10/2014 Time: 1:35 Operator: K. 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). 9/29 → Pressure ✓ 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.*

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 10-17-14
AUDITED BY GG. DATE 10/13/14

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)

**Comments/Unusual Occurrences: _____

Signature: K. Bell

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 10/23/2014 Time: 9:48 Operator: Karen Bell

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 10/20-10/22 → Jape Jensen 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.*

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 11/4/14
AUDITED BY GG- DATE 11/3/14

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: _____

Signature: K. Bell

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

WEST PLANT

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

AIR SCIENCES INC.

Date: 10/31/2014 Time: 12:26 Operator: K. Bell

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 10/26–10/31 → 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

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.
WPA DATE 11/3/13
GG DATE 11/3/14

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 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: Kami Bell

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 11/7/14 Time: 10:05 Operator: R. Beak

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 11/7 - 11/2 Bam Cal Man 5% ✓ 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 11/24/14

AUDITED BY GG. DATE 11/24/14

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: R Beak

**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: 11/13/2014 Time: 1:31 Operator: Kami Balad

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 11/4-11/13 → 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) 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 and 2.5 cyclone particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC
DENVER • PORTLAND

REVIEWED BY RPM DATE 11/29/14

AUDITED BY GG. DATE 11/24/14

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: Kami Balad

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 11/25/2014 Time: 1:40 Operator: K. Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 11/21 → 11/17 → BAM Cal Membrane 5% 11/17 → Tape Sensor ✓
✓		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 and 2.5 cyclone particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 11/29/14
AUDITED BY GG DATE 11/24/14

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

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: K. 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: 12/05/2014 Time: 12:47 Operator: Kim Bacon

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). 12/01–12/05 → BAM Cal Membrane 5% ✓ 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 12/8/14
AUDITED BY GG DATE 12/8/14

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: Kim 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: 12/11/2014 Time: _____ Operator: Kami Bell

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 12/07 – 12/11 → BAM Cell 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.*

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 1/2/14
AUDITED BY GG DATE 12/15/14

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: Flow Error → Ran Self-Test; Pump is out. GG

PM2.5 conc. + flow data will be invalidated after the new pump install! GG

Signature: Kami Bell

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

WEST PLANT

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

AIR SCIENCES INC.

Date: 12/19/2014 Time: 10:23 Operator: K Bell d

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. — Vacuum Pump broke. New one on its way ✓ GG-
✓		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). Flow Error ✓ 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.*

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 1/2/14
AUDITED BY GG- DATE 12/30/14

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: Karri Bell d

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER & PORTLAND

Date: 12/30/2014 Time: 13 05 Operator: K. Bolad

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). 12/26 – 12/30 → Flow Failure ✓ 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 and 2.5 cyclone particle trap cleaned
✓		5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC
DENVER & PORTLAND
REVIEWED BY RRA DATE 1/5/15
AUDITED BY GG. DATE 1/5/15

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	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: Changed out pump. – Ran Self Test ✓ GG.

Signature: Kami Bolad

**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
DENVER • PORTLAND
REVIEWED BY RPA DATE 1/5/15
AUDITED BY GG. DATE 1/5/15

Met One BAM 1020 $PM_{2.5}$: S/N: M8193

Firmware:

Calibrator: Delta Cal S/N:

Date of Flow Audit: 12/30/2014 ✓

Time of Flow Audit: 13:09 ✓

	BAM	STD
Ambient Temperature (AT) °c	17.6	18.3 ✓
Berometric Pressure mmHg	683	680 ✓

	Set Point (lpm)	BAM	% Diff (1) GG.	STD Flow Meter	% Diff (2) GG.
(1) Actual Flow	15	15.0	0 ✓	14.98	0.13 ✓
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0 ✓	18.4	0 ✓
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0 ✓	16.68	0.12 ✓
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	0.7	**Should be < 1.0 LPM** ✓

Comments/Abnormalities: Self Test "Passed"

Signature: Rame Ricard

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

Appendix F: East Plant Meteorological Site Check Forms

AIR SCIENCES INC.

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

Date: 10/03/2014 Time: 1:11 Operator: K. Ballard

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

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 10-17-14
AUDITED BY GG DATE 10/13/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	6 m/s	5.73	6.32	+
Direction* 10m (deg)	NE	50.74	58.8	+
Ambient Temperature (°C)	29°	27.78	28	+
Relative Humidity (%)	15%	11.82	12.1	+
Aspirated Temp 2m	29°	27.78	27.9	+
Aspirated Temp 10m	28°	26.68	26.8	+
Delta Temperature (°C)	N/A	-1.10	-1.1	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	857.07	863	+
Barometric Pressure (mmHg)	N/A	655.91	656	+
Battery Voltage (V)	N/A	12.70	12.7	+
Time (MST)	N/A	1:73	13:15 L.T.	+
Date	N/A	10/03/2014	10/03/2014	+

*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: Karne Ballard

AIR SCIENCES INC.

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

Date: 10/10/2014 Time: 1:51 Operator: Kami Ba[illegible]

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 RDA DATE 10-17-14
AUDITED BY GG- DATE 10/13/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	5 m/s	4.7	2.95	+
Direction* 10m (deg)	W	228.65	247	+
Ambient Temperature (°C)	23°	21.18	21.5	+
Relative Humidity (%)	55%	62.91	62.2	+
Aspirated Temp 2m	23°	20.77	21.1	+ GG-
Aspirated Temp 10m	22°	20.43	20.5	+ 779 - 13:30
Delta Temperature (°C)	N/A	-0.33	-0.607	+ 758 - 13:45
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	725.54	613	* 701 - 14:15
Barometric Pressure (mmHg)	N/A	653.60	654	+ 651 - 14:30
Battery Voltage (V)	N/A	12.76	12.8	+
Time (MST)	N/A	1:54	14:00 L.T.	+
Date	N/A	10/10/2014	10/10/2014	+

*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 Ba[illegible]

AIR SCIENCES INC.

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

Date: 10/23/2014 Time: ~~10~~ 10:10 Operator: Kane McCloud

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

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY RPA DATE 11/3/14

AUDITED BY GG DATE 11/3/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	Hrs	3.5	3.35	+
Direction* 10m (deg)	NE	40.89	55.9	+
Ambient Temperature (°C)	25°	23.41	23.1	+
Relative Humidity (%)	35%	39.54	39.9	+
Aspirated Temp 2m	25°	23.01	22.7	+
Aspirated Temp 10m	24°	21.84	21.6	+
Delta Temperature (°C)	N/A	-1.17	-1.16	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	688.77	680	+
Barometric Pressure (mmHg)	N/A	656.36	656	+
Battery Voltage (V)	N/A	12.75	12.8	+
Time (MST)	N/A	10:12	10:15 - L.J.	+
Date	N/A	10/23/2014	10/23/2014	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: Noise monitoring done for this site — ✓ GG

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

Site Operator Signature: Kane McCloud

AIR SCIENCES INC.

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

Date: 10/31/2014 Time: 1:01 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 LAK DATE 11/3/14
AUDITED BY GG. DATE 11/3/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)		5.32	5.45	+
Direction* 10m (deg)		133.36	126	+
Ambient Temperature (°C)		24.12	25.1	+
Relative Humidity (%)		24.16	27.3	+
Aspirated Temp 2m		24.04	24.8	+ GG.
Aspirated Temp 10m		24.07	23.9	+ 754 - 12:30
Delta Temperature (°C)	N/A	-0.47	-0.942	+ 757 - 12:45
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	357.54	609	* 608 - 13:15
Barometric Pressure (mmHg)	N/A	652.68	653	+ 680 - 13:30
Battery Voltage (V)	N/A	12.73	12.7	+
Time (MST)	N/A	1:03 pm	13:00 C.T.	+
Date	N/A	10/30/2014	10/31/2014	+

10/31/2014
GG.

*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: 11-7-14 Time: 10:45 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
REVIEWED BY DPA DATE 11/24/14
AUDITED BY GG. DATE 11/24/14

Parameter	Estimated	Logger	Audit	GG.
Speed 10m (m/s)	5 mph	5.32	4.53	+ 54.1 - 10:15
Direction* 10m (deg)	NE	37.32	58.4	* 50.1 - 10:30
Ambient Temperature (°C)	70°F	17.59	16.9	+ 49 - 11:00
Relative Humidity (%)	20%	32.6%	34.1	+ 46.5 - 11:15
Aspirated Temp 2m	70°F	17.16	16.7	+
Aspirated Temp 10m	70°F	16.01	15.4	+
Delta Temperature (°C)	N/A	-1.02	-1.27	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	707.74	689	+
Barometric Pressure (mmHg)	N/A	657.47	657	+
Battery Voltage (V)	N/A	12.85	12.9	+
Time (MST)	N/A	10:50	10:45 L.T.	+
Date	N/A	11/7/14	11/07/2014	+

*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: Karen Baak

AIR SCIENCES INC.

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

Date: 11/13/2014 Time: 3:09 Operator: Kami Bacon

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

AIR SCIENCES INC. DENVER • PORTLAND
RPA 11/24/14
VERIFIED BY: DATE
VERIFIED BY GG. DATE 11/24/14

Parameter	Estimated	Logger	Audit	GG.
Speed 10m (m/s)	2 m/s	1.9 m/s	3.01	211 - 14:45 + 246 - 15:00
Direction* 10m (deg)	ESE	197.51	222	* 228 - 15:30
Ambient Temperature (°C)	21°	19.88	19.8	+ 200 - 15:45
Relative Humidity (%)	35%	35.31	35.8	+
Aspirated Temp 2m	21°	19.26	19.1	+
Aspirated Temp 10m	20°	18.41	18.4	+
Delta Temperature (°C)	N/A	-0.85	-0.769	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	370.45	367	+
Barometric Pressure (mmHg)	N/A	652.66	653	+
Battery Voltage (V)	N/A	12.79	12.8	+
Time (MST)	N/A	3:12	15:15 L.T.	+
Date	N/A	11/13/2014	11/13/2014	+

*Direction wind is from

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

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

Site Operator Signature: Kami Bacon

AIR SCIENCES INC.

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

Date: 11/21/2014 Time: 2:25 Operator: Karen Bellard

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

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY RPA DATE 11/29/14
AUDITED BY GG DATE 11/24/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	3m/s	2.56	1.48	+
Direction* 10m (deg)	West	266.37	298	+
Ambient Temperature (°C)	19°	18.31	18	+
Relative Humidity (%)	15%	19.95	20.8	+
Aspirated Temp 2m	19°	15.1	15.6	+
Aspirated Temp 10m	18°	14.42	14.6	+
Delta Temperature (°C)	N/A	-0.67	-0.957	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	663.25	610	+
Barometric Pressure (mmHg)	N/A	650.12	650	+
Battery Voltage (V)	N/A	12.85	12.9	+
Time (MST)	N/A	2:28	14:30 L.T.	+
Date	N/A	11/21/2014	11/21/2014	+

GG
292 - 14:00
+ 323 - 14:15
+ 274 - 14:45
+ 34.6 - 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: Karen Bellard

AIR SCIENCES INC.

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

Date: 12/5/2014 Time: 2:05 Operator: [illegible]

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 EXPERIENCE

REVIEWED BY RPA DATE 12/08/14

AUDITED BY GG. DATE 12/08/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	3 m/s	3.48	4.66	+
Direction* 10m (deg)	NE	35.85	45.6	+
Ambient Temperature (°C)	15°	14.07	14.1	+
Relative Humidity (%)	55%	62.97	63.4	+
Aspirated Temp 2m	15°	13.99	13.9	+
Aspirated Temp 10m	14°	13.42	13.2	+
Delta Temperature (°C)	N/A	-0.61	-0.708	+
Solar Radiation (w/m²)	Sunny (Partly cloudy) Cloudy	354.14	356	+
Barometric Pressure (mmHg)	N/A	655.74	656	+
Battery Voltage (V)	N/A	12.89	12.9	+
Time (MST)	N/A	2:07	14:00 L.T.	+
Date	N/A	12/05/2014	12/05/2014	+

*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: [illegible]

AIR SCIENCES INC.

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

Date: 12/12/2014 Time: 12 pm Operator: Kami Bollard

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

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 1/2/14
AUDITED BY EG. DATE 12/15/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	3m/s	3.17	2.68	+
Direction* 10m (deg)	SE	113.99	126	+
Ambient Temperature (°C)	19°	18.33	18	+
Relative Humidity (%)	30%	30.61	36.9	+
Aspirated Temp 2m	18°	17.53	17.3	+
Aspirated Temp 10m	18	16.67	16.3	+
Delta Temperature (°C)	N/A	-0.96	-1	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	629.72	622	+
Barometric Pressure (mmHg)	N/A	655.08	655	+
Battery Voltage (V)	N/A	12.81	12.8	+
Time (MST)	N/A	12:03	12:00 L.T.	+
Date	N/A	12/12/2014	12/12/2014	+

*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 Bollard

AIR SCIENCES INC.

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

Date: 12/19/2014 Time: 9:41 Operator: Karni

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 • LOVELAND
REVIEWED BY RPA DATE 1/2/14
AUDITED BY GG DATE 12/30/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	5 m/s	5.93	4.65	+
Direction* 10m (deg)	E	86.74	85	+
Ambient Temperature (°C)	5°	6.43	6.31	+
Relative Humidity (%)	55°	62.71	62.8	+
Aspirated Temp 2m	5°	5.99	5.88	+
Aspirated Temp 10m	4°	5.43	5.36	+
Delta Temperature (°C)	N/A	-0.57	-0.514	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	391.62	417	+
Barometric Pressure (mmHg)	N/A	656.65	657	+
Battery Voltage (V)	N/A	13.05	13.1	+
Time (MST)	N/A	9:43	9:45 L.T.	+
Date	N/A	12/19/2014	12/19/2014	+

*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: Karni Bell

AIR SCIENCES INC.

RDA 1-6-15
REVIEWED BY DATE
WR 1-5-15
DATE

AIR SCIENCES INC.

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

Date: 12/30/2014 Time: 10:09 Operator: Karen BaCard

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

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2 m/s	2.54	2.71_WS(m/S)
Direction* 10m (deg)	ESE	114.22	114_WD(deg)
Ambient Temperature (°C)	8°	10.18	10_°C
Relative Humidity (%)	15%	21.39	21.8_%
Aspirated Temp 2m	8°	9.36	9.33_°C
Aspirated Temp 10m	7°	8.64	8.56_°C
Delta Temperature (°C)	N/A	-0.72	-0.767_°C
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	504.49	497_SR(w/m²)
Barometric Pressure (mmHg)	N/A	651.41	651_mmHg
Battery Voltage (V)	N/A	13.01	13_V
Time (MST)	N/A	10:12	10:15_LT
Date	N/A	12/30/2014	12/30/2014

*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 BaCard

Appendix G: 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.
DENVER • PORTLAND

Date: 10/03/2014 Time: 1:28 Operator: K. Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual).
✓		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
DENVER • PORTLAND
REVIEWED BY RPA DATE 10-14-14
AUDITED BY GG. DATE 10/13/14

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

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: Bp calibrated to 652 ✓ GG.

* PM10 conc. + flow invalidated @ 14:00 hrs! GG.

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.
DENVER • PORTLAND

Date: 10/10/2014 Time: 1:54 Operator: K. Pacca

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 9/24 → 10/07 → BAM Cal Mem. 5% ✓
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool) 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 RDA DATE 10-14-14
AUDITED BY GG DATE 10/13/14

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)

**Comments/Unusual Occurrences: _____

Signature: Kari Pacca

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 10/23/2014 Time: 10:15 Operator: Karni

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 10/20 – 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.*

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

RPA — 11/3/14
REVIEWED BY — DATE

GG. — DATE 11/3/14
ENTERED BY

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 @ 11:00hrs! GG.

Signature: Karni Bacon

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 10/30/2014 Time: 1:04 Operator: Kam BcCla-g

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 10/23 - 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.*

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
RPA DATE 11/3/14
GG- DATE 11/3/14

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:

Signature: Kam BcCla-g

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 11/7/14 Time: 10:52 Operator: K. Baab

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). NA ✓ 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 particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY RPA DATE 11/24/14
AUDITED BY GG. DATE 11/24/14

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: K. Baab

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 11/13/2014 Time: 1:13 Operator: K. Bellard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 10/23 → 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 particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY pDA DATE 11/24/14
AUDITED BY GG. DATE 11/24/14

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: 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.
DENVER • PORTLAND

Date: 11/21/2014 Time: _____ Operator: Kanu Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 10/23 → 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 particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
RPA DATE 11/21/14
GG. DATE 11/25/14

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: Kanu 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.
DENVER • PORTLAND

Date: 12/05/2014 Time: 2:10 Operator: K. BCl

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 10/23 → 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 particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY PPA 12/08/14
AUDITED BY GG 12/08/14

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: Ken BC

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 12/12/2014 Time: 12 05 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). 12/06 → Power Fail ✓ 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.*

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	1/2/14
AUDITED BY	GG	DATE	12/15/14

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 @ 13:00 hrs! GG

Signature: Karen 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.
DENVER • PORTLAND

Date: 12/19/2014 Time: 9:39 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). 12/12 → tape break ✓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.*

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 1/2/14
AUDITED BY GG- DATE 12/30/14

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: Karen Ballard

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

AIR SCIENCES INC
DENVER • PORTLAND

REVIEWED BY RPA DATE 1/2/14
AUDITED BY GG - DATE 12/30/14

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

East Plant
PARTICULATE MONITORING PROJECT
PROJECT NO. 262-1

Met One PM_{10}: 8714 S/N:
Firmware:
Calibrator: Delta Cal S/N:

Date of Flow Audit: 12/19/2014 ✓
Time of Flow Audit: 9:45

	BAM	STD	
Ambient Temperature (AT) °c	6.2	7.1	✓
Berometric Pressure mmHg	642	636.5	?

	Set Point (lpm)	BAM	% Diff (1) GG-	STD Flow Meter	% Diff (2) GG.	
(1) Actual Flow	15	15.0	0 ✓	15.18	-1.19	✓
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*	
(2) Actual Flow	18.4	18.4	0 ✓	18.75	-1.87	✓
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*	
(3) Actual Flow	16.7	16.7	0 ✓	16.87	-1.01	✓
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	0.4	**Should be < 1.0 LPM** ✓

Comments/Abnormalities: Vapor Leak = "PASSED"

Signature: Kenny B. Oc 4

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

* PM10 conc. & flow invalidated @ 10:00 hrs! GG.

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 12/30/2014 Time: 12:13 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). 12/19 → 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 (WR)	
	↓	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: 1-6-15
AUDITED BY: WR DATE: 1-5-15

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

**Comments/Unusual Occurrences: _____

Signature: Kami Ballard

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 10/03/2014 Time: 1:35 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). 9/29 → 10/03 – Flow Failure ✓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.*

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 RMA DATE 10-17-14
AUDITED BY GG. DATE 10/13/14

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)

**Comments/Unusual Occurrences: Pump out → changed it & ran self test. Self Test "Passed" ✓

* PM2.5 conc. & flow invalidated from 03:00 hrs on 10/1/14 through 15:00 hrs. on 10/3/2014! GG - Signature: Karen Ballard

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER | PORTLAND

Date: 10/10/2014 Time: 1:58 Operator: Kami BaCCa

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 10/03 → flow failure ✓ 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.*

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 10-14-14
AUDITED BY GG - DATE 10/13/14

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)

**Comments/Unusual Occurrences: _____

Signature: Ka BaC

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 10/23/2014 Time: 10:18 Operator: Kara Bell

I. **BAM SAMPLER** -- Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 10/20 -> 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

RPA — REVIEWED BY — DATE 11/3/14

AUDITED BY GG - — DATE 11/3/14

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 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: PM 2.5 cont. e flow indicated @ 11:00hrs! GG

Signature: Kara Bell

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 10/30/2014 Time: 1:06 Operator: Kam Bald

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 10/23 → 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.*

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 frap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY RPA DATE 11/3/14
AUDITED BY GG. DATE 11/3/14

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: _____

Signature: Kam Bald

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 11/7/14 Time: 10:53 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). 11/7, 11/6, 11/5 BAM CAL SV. ✓ 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 RAA DATE 11/24/14
AUDITED BY: GG DATE 11/24/14

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: 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.
DENVER • PORTLAND

Date: 11/13/2014 Time: 3:15 Operator: K. BeCel

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 11/10 → 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 and 2.5 cyclone particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY RPA DATE 11/24/14
AUDITED BY GG DATE 11/24/14

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: Ken BeCel

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 11/21/2014 Time: _____ Operator: Kami Bacon

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 11/10 → Bam Cal membrane 5% ✓ 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 11/24/14
AUDITED BY GG- 11/24/14

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: Kami Bacon

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 12/05/2014 Time: 2:11 Operator: Kahu

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 11/10 → 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) 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 RDA DATE 12/08/14
AUDITED BY GG. DATE 12/08/14

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: _____

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 12/12/2014 Time: 12:13 Operator: Kara Bacon

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 12/06 → Power Fail ✓ 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.*

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, CO

REVIEWED BY RPA 1/2/14
AUDITED BY GG. 12/15/14

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 @ 15:00 hrs! GG

Signature: Kara Bacon

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 12/19/2014 Time: 9:47 Operator: Kane

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). 12/17 → Pump Cal Membrane S/O ✓
✓		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 1/2/14
AUDITED BY GG DATE 12/30/14

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: Kane Bullard

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

AIR SCIENCES INC
DENVER • PORTLAND

REVIEWED BY RPA DATE 1/2/15
AUDITED BY G.G. - DATE 12/30/14

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: 6464
Firmware:
Calibrator: Delta Cal S/N:

Date of Flow Audit: 12/19/2014 ✓
Time of Flow Audit: 9:47

	BAM	STD	
Ambient Temperature (AT) °c	6.8	7.0	✓
Berometric Pressure mmHg	660	656.5	?

	Set Point (lpm)	BAM	% Diff (1) G.G.	STD Flow Meter	% Diff (2) G.G.
(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	18.3	0.54 ✓	18.61	1.67 ✓
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0 ✓	16.80	0.6 ✓
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

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

	BAM	
(2) Leak Test	0.5	**Should be < 1.0 LPM** ✓

Comments/Abnormalities:

Signature: [signature]

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

* PM2.5 conc. + flow invalidated @ 10:00 hrs! G.G.

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 12/30/2014 Time: 10:15 Operator: Kami Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 12/23-12/24 → BAM cal Membrane Sio
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPM DATE 1-6-15
AUDITED BY WR DATE 1-5-15

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

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

YES	NO WR	
	↓	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 WR	
	↓	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 WR	
	↓	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

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

AIR SCIENCES INC.
DENVER • PORTLAND

WR 10-7-14
DATE
RPA 10-7-14
DATE

Resolution Copper Mining
East Plant Monitoring Station
SO_2 Level 1 Zero and Span Calibration

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: R. ATTRIDGE	Teledyne API T100 SO_2 Analyzer S/N	193	Calibration Start Time	0730
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	0810
Date: 10·7·14			T100 Analyzer Range	0-500ppb
	NIST Traceable Gas Conc.	40.4	Shelter Temperature (5-40 ° C)	24.2

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	ZERO	-0.3	0.3	Zero Drift ≤ ± 1.5 %	0.02
400 ppb	400	386.0	0.5	Span Drift ≤ ± 10 %	407.0

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.02	0.13	± 2 ppb	NO
400 ppb	407.0	407.6	± 2 ppb	NO

Analyzer Parameters

Sample Flow (~~650 ± 65~~ 650 ± 65 cc/min)	619	Sample Press. (Ambient ± 2 in-Hg)	25.8
UV Lamp (1000 - 4800 mV)	2170.3	Lamp Ratio (30 - 120%)	91.8
Slope (1 ± 0.3)	1.082	BOX Temp. (Ambient ± 5°C)	33.4
Offset (< 250 mV)	24.2	HVPS (400 - 900 V)	614

Operator Comments:
Hourly concentrations collected from 0800 to 0900 - Shall be invalidated - RPA

Operator Signature:
R Attridge

AIR SCIENCES INC.

RPA 10-20-14
REVIEWED BY DATE
WR 10-17-14
AUDITED BY DATE

Resolution Copper Mining
East Plant Monitoring Station
SO_2 Level 2 Zero and Span Verification

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: Kame Ballard	Teledyne API T100 SO_2 Analyzer S/N	193	Verification Start Time	2:11
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	2:36
Date: 10/10/2014			T100 Analyzer Range	500 PPB
	NIST Traceable Gas Conc.	40% 40.4 WR	Shelter Temperature (5-40 ° C)	22.49

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	~~NO_2~~ SO_2 (WR) Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.579	0.096	Zero Drift ≤ ±1.5%	No
400 ppb	400	410.219	0.583	Span Drift ≤ ±10%	NO WR

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.579	0.51	± 2 ppb	No
400 ppb	410.219	410.638	± 2 ppb	NO

Analyzer Parameters

Sample Flow (650 ± 65 cc/min)	628	Sample Press. (Ambient ± 2 in-Hg)	26.0
UV Lamp (1000 - 4800 mV)	2170.6	Lamp Ratio (30 - 120%)	91.9
Slope (1 ± 0.3)	1.082	BOX Temp. (Ambient ± 5°C)	32.0
Offset (< 250 mV)	24.2	HVPS (400 - 900 V)	614

Operator Comments:

Operator Signature: Kame Ballard

AIR SCIENCES INC.

REVIEWED BY RPA DATE 10·29·14

AUDITED BY WR DATE 10/17/14

Resolution Copper Mining

East Plant Monitoring Station

SO_2 Level 1 Zero and Span Calibration

AIR SCIENCES INC.

DENVER • PORTLAND

Operator: W.Rucker	Teledyne API T100 SO_2 Analyzer S/N	193	Calibration Start Time	11:35	~~(AST)~~(MST)
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	13:30	~~(AST)~~(MST)
Date: 10-17-14			T100 Analyzer Range	500	
	NIST Traceable Gas Conc.	40.4	Shelter Temperature (5-40 ° C)	23.99	

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	Zero	0.159	0.129	Zero Drift ≤ ± 1.5 %	-0.075
400 ppb	400	401.375	0.103	Span Drift ≤ ± 10 %	400.923

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	-0.075	-0.116	± 2 ppb	NO
400 ppb	400.923	409.691	± 2 ppb	NO

Analyzer Parameters

Sample Flow (650 ± 65 cc/min)	618	Sample Press. (Ambient ± 2 in-Hg)	25.7
UV Lamp (1000 - 4800 mV)	2163.5	Lamp Ratio (30 - 120%)	91.5
Slope (1 ± 0.3)	1.053	BOX Temp. (Ambient ± 5°C)	33.3
Offset (< 250 mV)	24.5	HVPS (400 - 900 V)	614

Operator Comments: 1100-1400 Hrs ~~INVALIDATED~~ RPA

Operator Signature:

AIR SCIENCES INC.

RPA 11/3/14
REVIEWED BY DATE

WR 10/30/14
AUDITED BY DATE

Resolution Copper Mining
East Plant Monitoring Station
SO_2 Level 1 Zero and Span Calibration

AIR SCIENCES INC.

DENVER • PORTLAND

Operator: W.Rucker	Teledyne API T100 SO_2 Analyzer S/N	193	Calibration Start Time	13:59
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	14:30
Date: 10/30/14			T100 Analyzer Range	500
	NIST Traceable Gas Conc.	40.4	Shelter Temperature (5-40 ° C)	21.85

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	Zero	-0.028 ~~-0.081~~	0.091 ~~0.167~~	Zero Drift ≤ ± 1.5 %	0.085
400 ppb	400	394.567	0.096	Span Drift ≤ ± 10 %	

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.085	0.0447	± 2 ppb	NO
400 ppb	400.632	401.40	± 2 ppb	No

Analyzer Parameters

Sample Flow (650 ± 65 cc/min)	629	Sample Press. (Ambient ± 2 in-Hg)	26.1
UV Lamp (1000 - 4800 mV)	2156.9	Lamp Ratio (30 - 120%)	91.3
Slope (1 ± 0.3)	1.068	BOX Temp. (Ambient ± 5°C)	32.7
Offset (< 250 mV)	24.3	HVPS (400 - 900 V)	614

Operator Comments: EVALUATED THE 1500 HRS – RPA

Operator Signature:

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY: LPA DATE 11/14/14
AUDITED BY: WR DATE 11-14-14

Resolution Copper Mining
East Plant Monitoring Station
SO_2 Level 2 Zero and Span Verification

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: Karri Ballard	Teledyne API T100 SO_2 Analyzer S/N	193	Verification Start Time	15:53
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	16:05
Date: 11/13/2014			T100 Analyzer Range	500
	NIST Traceable Gas Conc.	40 %	Shelter Temperature (5-40 ° C)	22.15

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	~~NO_2~~ SO_2 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	.006	0.387	Zero Drift ≤ ± 1.5 %	No
400 ppb	400	368.56	0.806	Span Drift ≤ ± 10 %	No

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	.006	0.381	± 2 ppb	No
400 ppb	368.56	369.64	± 2 ppb	No

Analyzer Parameters

Sample Flow (650 ± 65 cc/min)	629	Sample Press. (Ambient ± 2 in-Hg)	26.0
UV Lamp (1000 - 4800 mV)	2136.2	Lamp Ratio (30 - 120%)	90.4
Slope (1 ± 0.3)	1.063	BOX Temp. (Ambient ± 5°C)	32.3
Offset (< 250 mV)	24.6	HVPS (400 - 900 V)	614

Operator Comments: 1600 & 1700 Hrs INVALIDATED — RPA

Operator Signature: Karri Ballard

AIR SCIENCES INC

WR 12-1-14
REVIEWED BY DATE
RPA 12-20-14
AUDITED BY DATE

Resolution Copper Mining
East Plant Monitoring Station
SO_2 Level 1 Zero and Span Calibration

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: R. ATTRIDGE	Teledyne API T100 SO_2 Analyzer S/N	193	Calibration Start Time	0957
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1057
Date: 11-20-2014			T100 Analyzer Range	500 ppb
	NIST Traceable Gas Conc.	40.4	Shelter Temperature (5-40 ° C)	24.1

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	ZERO	-0.163	0.05	Zero Drift ≤ ±1.5 %	-0.02
400 ppb	400	383.4	0.7	Span Drift ≤ ±10 %	406.9

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	-0.02	0.4	± 2 ppb	NO
400 ppb	406.9	407.4	± 2 ppb	NO

Analyzer Parameters

Sample Flow (650 ± 45 cc/min)	620	Sample Press. (Ambient ± 2 in-Hg)	25.8
UV Lamp (1000 - 4800 mV)	2134.9	Lamp Ratio (30 - 120%)	90.3
Slope (1 ± 0.3)	1.107	BOX Temp. (Ambient ± 5°C)	33.7
Offset (< 250 mV)	24.3	HVPS (400 - 900 V)	614

Operator Comments: INVALIDATE DATA FROM 0900-1100HRS Operator Signature: R. Attridge

AIR SCIENCES INC.

REVIEWED: RPA 1/2/14 DATE

APPROVED: WR 12-2-14 DATE

Resolution Copper Mining

East Plant Monitoring Station

SO_2 Level 2 Zero and Span Verification

AIR SCIENCES INC.

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Operator: W.Rucker	Teledyne API T100 SO_2 Analyzer S/N	193	Verification Start Time	12:10
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	12:41
Date: 12-2-2014			T100 Analyzer Range	500
	NIST Traceable Gas Conc.	40.4	Shelter Temperature (5-40 ° C)	22.82

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	zero	0.58	0.046	Zero Drift ≤ ± 1.5 %	NO
400 ppb	400	408.167	0.776	Span Drift ≤ ± 10 %	NO

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.58	0.51	± 2 ppb	NO
400 ppb	408.167	409.194	± 2 ppb	NO

Analyzer Parameters

Sample Flow (650 ± 65 cc/min)	629	Sample Press. (Ambient ± 2 in-Hg)	26.1
UV Lamp (1000 - 4800 mV)	2128.5	Lamp Ratio (30 - 120%)	90.1
Slope (1 ± 0.3)	1.107	BOX Temp. (Ambient ± 5°C)	34.0
Offset (< 250 mV)	24.3	HVPS (400 - 900 V)	614

Operator Comments: The 12:00 hour shall be invalidated.

(300 HRS INVALIDATED) - RPA

Operator Signature:

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY WA DATE 1-2-15
AUDITED BY RPA DATE 12-9-15

Resolution Copper Mining
East Plant Monitoring Station
SO_2 Level 1 Zero and Span Calibration

AIR SCIENCES INC

Operator: R. ATTRIDGE	Teledyne API T100 SO_2 Analyzer S/N	193	Calibration Start Time	1430
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1550
Date: 12-9-14			T100 Analyzer Range	500 PPB
	NIST Traceable Gas Conc.	40.4	Shelter Temperature (5-40 ° C)	24.0

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	ZERO	0.008	0.2	Zero Drift ≤ ± 1.5 %	0.019
400 ppb	400	401.15	0.2	Span Drift ≤ ± 10 %	400.07

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.019	0.062	± 2 ppb	NO
400 ppb	400.07	400.9	± 2 ppb	NO

Analyzer Parameters

Sample Flow (650 ± 45 cc/min)	621	Sample Press. (Ambient ± 2 in-Hg)	25.8
UV Lamp (1000 - 4800 mV)	2126.0	Lamp Ratio (30 - 120%)	90%
Slope (1 ± 0.3)	1.061	BOX Temp. (Ambient ± 5°C)	33.6
Offset (< 250 mV)	24.4	HVPS (400 - 900 V)	614

Operator Comments: 1500-1600 HRS CONCENTRATIONS shall be invalidated

Operator Signature: R. Attridge

AIR SCIENCES INC.
DENVER · PORTLAND

REVIEWED BY RPA DATE 1/2/14
AUDITED BY WR DATE 12-18-14

Resolution Copper Mining
East Plant Monitoring Station
SO_2 Level 2 Zero and Span Verification

AIR SCIENCES INC.
DENVER · PORTLAND

Operator: Karie BeClard	Teledyne API T100 SO_2 Analyzer S/N	193	Verification Start Time	12.40
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	12.55
Date: 12/2/2014			T100 Analyzer Range	400PPB
	NIST Traceable Gas Conc.	40%	Shelter Temperature (5-40 ° C)	24.5

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.494	0.104	Zero Drift ≤ ±1.5 %	No
400 ppb	400	393.67	0.225	Span Drift ≤ ±10 %	NO WR

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.494	0.746	± 2 ppb	No
400 ppb	393.67	394.46	± 2 ppb	NO

Analyzer Parameters

Sample Flow (650 ± 65 cc/min)	630	Sample Press. (Ambient ± 2 in-Hg)	26.0
UV Lamp (1000 - 4800 mV)	2127.0	Lamp Ratio (30 - 120%)	90%
Slope (1 ± 0.3)	1.061	BOX Temp. (Ambient ± 5°C)	32.7
Offset (< 250 mV)	244	HVPS (400 - 900 V)	614

Operator Comments: Invalidated the 13 ~~hours~~ WR hours WR

Operator Signature: Karie BeClard

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY RDT DATE 1/2/15
AUDITED BY WR DATE 12-19-14

Resolution Copper Mining
East Plant Monitoring Station
SO_2 Level 1 Zero and Span Calibration

AIR SCIENCES INC.
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Operator: W.Rucker	Teledyne API T100 SO_2 Analyzer S/N	193	Calibration Start Time	1052 (MST)
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	
Date: 12-19-2014			T100 Analyzer Range	500
	NIST Traceable Gas Conc.	40.4	Shelter Temperature (5-40 ° C)	24.23

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	Zero	0.376	0.038	Zero Drift ≤ ± 1.5 %	0.019
400 ppb	400	398.983	0.086	Span Drift ≤ ± 10 %	401.728

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.050	0.049	± 2 ppb	NO
400 ppb	401.604	WR ~~0.049~~ 402.013	± 2 ppb	NO

Analyzer Parameters

Sample Flow (650 ± 65 cc/min)	620	Sample Press. (Ambient ± 2 in-Hg)	25.9
UV Lamp (1000 - 4800 mV)	2121.6	Lamp Ratio (30 - 120%)	89.8
Slope (1 ± 0.3)	1.064	BOX Temp. (Ambient ± 5°C)	34.4
Offset (< 250 mV)	25.1	HVPS (400 - 900 V)	614

Operator Comments: Invalidated the 11:00 thru 13:00 hours for the calibration_ WR

Operator Signature:

AIR SCIENCES INC.
RPA 1-6-15
REVIEWED BY DATE
WR 1-5-15
AUDITED BY DATE

Resolution Copper Mining
East Plant Monitoring Station
SO_2 Level 2 Zero and Span Verification

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: Kami Ballard	Teledyne API T100 SO_2 Analyzer S/N	193	Verification Start Time	10:37
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	10:56
Date: 12/30/2014			T100 Analyzer Range	500PPB
	NIST Traceable Gas Conc.	1.20 %	Shelter Temperature (5-40 ° C)	25.48

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	NO_2 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	-0.010	0.180	Zero Drift ≤ ±1.5 %	No
400 ppb	400	394.641	0.862	Span Drift ≤ ±10 %	No

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.010	0.232	± 2 ppb	No
400 ppb	394.64	395.578	± 2 ppb	No

Analyzer Parameters

Sample Flow (650 ± 65 cc/min)	626	Sample Press. (Ambient ± 2 in-Hg)	26.0
UV Lamp (1000 - 4800 mV)	2118.5	Lamp Ratio (30 - 120%)	89.7
Slope (1 ± 0.3)	1.064	BOX Temp. (Ambient ± 5°C)	33.5
Offset (< 250 mV)	25.1	HVPS (400 - 900 V)	614

Operator Comments:

Invalidated the 11:00 hour for the verification_WR

Operator Signature: Kami Ballard

AIR SCIENCES INC.
DENVER • PORTLAND

WR 10-7-14
REVIEWED BY DATE
RPA 10-7-14
AUDITED BY DATE

Resolution Copper Mining
East Plant Monitoring Station
NOx Level 1 Zero and Span Calibration

AIR SCIENCES INC.
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Operator: R. ATTRIDGE	Teledyne API T200 NOx Analyzer S/N	197	Calibration Start Time	0725
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	0810
Date: OCTOBER 3, 2014			T200 Analyzer Range	0-500 ppb
	NIST Traceable Gas Conc.	40.1	Shelter Temperature (5-40 ° C)	23.3

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NOx Response	Analyzer Stability	Acceptance Criteria	Final NOx / Zero Response
Zero Air	0	-0.1	0.3	0.2	0.1	Zero Drift ≤ ± 1.5 %	0.3
400 ppb	400	378.5	0.6	379.2	0.7	Span Drift ≤ ± 10 %	397.8

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	-0.2	NO	-0.3	± 2 ppb	NO
	NO_2	0.5	NO_2	0.3		
	NO_x	0.3	NO_x	0.2		
400 ppb	NO	396.2	NO	396.3	± 2 ppb	NO
	NO_2	1.1	NO_2	0.5		
	NO_x	397.8	NO_x	397.2		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	485	Moly Temp. (315 ± 5°C)	314.4
Ozone Flow (80 ± 15 cc/min)	72	HVPS (400 - 900 V)	643
NOx Slope (1 ± 0.3)	1.107	NO Slope (1 ± 0.3)	1.106
NOx Offset (0 ± 100)	3.1	NO Offset (0 ± 100)	0.1

Operator Comments:

Hourly concentrations collected at 0800-0900 shall be invalidated as a result of cal procedure. -RPA

Operator Signature: Roy Attridge

AIR SCIENCES INC

REVIEWED BY: RPA DATE: 10-29-14

AUDITED BY: WR DATE: 10-17-14

Resolution Copper Mining

East Plant Monitoring Station

NOx Level 2 Zero and Span Verification

AIR SCIENCES INC.

DENVER • PORTLAND

Operator:	Teledyne API T200 NOx Analyzer S/N	197	Verification Start Time	1:52
Kami Ballard	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	2:11
Date: 10/10/2014	NIST Traceable Gas Conc.	40%	T200 Analyzer Range	500 PPB
			Shelter Temperature (5-40 ° C)	23.58

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NOx Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	-0.1	4.4	4.3	0.5	Zero Drift ≤ ±1.5 %	No
400 ppb	400	381.8	-2.8	379.0	0.7	Span Drift ≤ ±10 %	No

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	-0.1	NO	-0.06	± 2 ppb	No
	NO_2	4.4	NO_2	4.31		
	NO_x	4.3	NO_x	4.47		
400 ppb	NO	381.8	NO	382.35	± 2 ppb	No
	NO_2	-2.8	NO_2	-3.73		
	NO_x	379.0	NO_x	378.91		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	482	Moly Temp. (315 ± 5°C)	315.0
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	643
NOx Slope (1 ± 0.3)	1.107	NO Slope (1 ± 0.3)	1.106
NOx Offset (0 ± 100)	3.1	NO Offset (0 ± 100)	0.1

Operator Comments:

Operator Signature: Kami Ballard

Resolution Copper Mining
East Plant Monitoring Station
NOx Level 1 Zero and Span Calibration

AIR SCIENCES INC.

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AIR SCIENCES INC.
REVIEWED BY: RPA 10-29-14 DATE
AUDITED BY: WR 10-17-14 DATE

Operator: W.Rucker	Teledyne API T200 NOx Analyzer S/N	197	Calibration Start Time	10:13 ~~(PST)~~ (MST)
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	10:50 ~~(PST)~~ (MST)
Date: 10/17/14			T200 Analyzer Range	500
	NIST Traceable Gas Conc.	40.1	Shelter Temperature (5-40 ° C)	23.15

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NOx Response	Analyzer Stability	Acceptance Criteria	Final NOx / Zero Response
Zero Air	Zero	0.1	2.0	2.0	0.2	Zero Drift ≤ ± 1.5 %	~~0.3~~ WR 1.0
400 ppb	400	386.7	-0.0	386.8	0.5	Span Drift ≤ ± 10 %	404.1

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	0.0	NO	~~-0.39~~ WR -0.29	± 2 ppb	NO
	NO_2	1.0	NO_2	0.86		
	NO_x	1.0	NO_x	1.04		
400 ppb	NO	403.0	NO	403.28	± 2 ppb	NO
	NO_2	1.7	NO_2	1.19		
	NO_x	404.1	NO_x	404.91		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	484	Moly Temp. (315 ± 5°C)	314.8
Ozone Flow (80 ± 15 cc/min)	81	HVPS (400 - 900 V)	643
NOx Slope (1 ± 0.3)	1.152	NO Slope (1 ± 0.3)	1.145
NOx Offset (0 ± 100)	7.0	NO Offset (0 ± 100)	0.3

Operator Comments:

1100 HRS CONCENTRATIONS INVALIDATED - RPA

Operator Signature:

AIR SCIENCES INC

REVIEWED BY: RPA DATE 11/3/14

AUDITED BY: WR DATE 10/30/14

Resolution Copper Mining

East Plant Monitoring Station

NOx Level 1 Zero and Span Calibration

AIR SCIENCES INC.

DENVER • PORTLAND

Operator: W.Rucker	Teledyne API T200 NOx Analyzer S/N	197	Calibration Start Time	0857 (MST)
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	0929 (MST)
Date: 10/30/2014			T200 Analyzer Range	500
	NIST Traceable Gas Conc.	40.1	Shelter Temperature (5-40 ° C)	21.9

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NOx Response	Analyzer Stability	Acceptance Criteria	Final NOx/Zero Response
Zero Air	zero	-0.2	-1.4	-1.6	0.6	Zero Drift ≤ ±1.5 %	0.7
400 ppb	400	379.5	0.1	379.4	0.3	Span Drift ≤ ±10 %	410.6

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	0.0	NO	-0.346	± 2 ppb	
	NO_2	-0.5	NO_2	-0.663		
	NO_x	-0.4	NO_x	-0.51		
400 ppb	NO	407.0	NO	406.91	± 2 ppb	NO
	NO_2	3.2	NO_2	2.80		
	NO_x	408.4	NO_x	408.87		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	485	Moly Temp. (315 ± 5°C)	314.6
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	643
NOx Slope (1 ± 0.3)	1.209	NO Slope (1 ± 0.3)	1.207
NOx Offset (0 ± 100)	4.4	NO Offset (0 ± 100)	0.0

Operator Comments: Failed to record the analyzer VS zero response. Performed a zero verification later to get these values. Start 13:46 Stop 13:55

Operator Signature:

1000 HRS AND 1400 HRS EVALUATED -RPA

AIR SCIENCES INC.
DENVER • PORTLAND

KPA 11/14/14
REVIEWED BY DATE
WR 11-14-14
AUDITED BY DATE

Resolution Copper Mining
East Plant Monitoring Station
NOx Level 2 Zero and Span Verification

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: Kane Ballard	Teledyne API T200 NOx Analyzer S/N	197	Verification Start Time	15:15
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	15:52
Date: 11/13/2014			T200 Analyzer Range	500PPB
	NIST Traceable Gas Conc.	40%	Shelter Temperature (5-40 ° C)	21.71

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NOx Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.3	1.4	1.7	0.9	Zero Drift ≤ ±1.5 %	No
400 ppb	400	370.7	1.0	371.7	0.5	Span Drift ≤ ±10 %	No

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	0.3	NO	0.1	± 2 ppb	No
	NO_2	1.4	NO_2	1.6		
	NO_x	1.7	NO_x	2.0		
400 ppb	NO	370.7	NO	370.52	± 2 ppb	No
	NO_2	1.0	NO_2	0.81		
	NO_x	371.7	NO_x	371.74		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	492	Moly Temp. (315 ± 5°C)	315
Ozone Flow (80 ± 15 cc/min)	81	HVPS (400 - 900 V)	643
NOx Slope (1 ± 0.3)	1.189	NO Slope (1 ± 0.3)	1.193
NOx Offset (0 ± 100)	1.2	NO Offset (0 ± 100)	0.5

Operator Comments: 1600 HRS EVACUATED - RPA

Operator Signature: K. BALLARD

AIR SCIENCES INC.

WR 12-1-14
REVIEWED BY DATE
RPA 11-20-14
AUDITED BY DATE

Resolution Copper Mining
East Plant Monitoring Station
NOx Level 1 Zero and Span Calibration

AIR SCIENCES INC.

DENVER • PORTLAND

Operator: R. ATTREDGE	Teledyne API T200 NOx Analyzer S/N	197	Calibration Start Time	0957
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1029
Date: 11·20·2014			T200 Analyzer Range	500 PPB
	NIST Traceable Gas Conc.	40.1	Shelter Temperature (5-40 ° C)	24.1

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NOx Response	Analyzer Stability	Acceptance Criteria	Final NOx / Zero Response
Zero Air	ZERO	0.4	0.2	0.6	0.1	Zero Drift ≤ ± 1.5 %	0.0
400 ppb	400	380.8	1.4	382.2	0.6	Span Drift ≤ ± 10 %	407.2

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	-0.0	NO	-0.2	± 2 ppb	NO
	NO_2	0.0	NO_2	-0.0		
	NO_x	0.0	NO_x	-0.1		
400 ppb	NO	406.6	NO	407.2	± 2 ppb	NO
	NO_2	-0.8	NO_2	-0.6		
	NO_x	406.5	NO_x	406.2		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	475 -	Moly Temp. (315 ± 5°C)	313.8 -
Ozone Flow (80 ± 15 cc/min)	81 -	HVPS (400 - 900 V)	643 -
NOx Slope (1 ± 0.3)	1.245 -	NO Slope (1 ± 0.3)	1.253 -
NOx Offset (0 ± 100)	2.2 -	NO Offset (0 ± 100)	0.4 -

Operator Comments: NOx Hourly Data shall be invalidated from 0900–1100 Hrs – RPA –

Operator Signature: R. Attridge

Resolution Copper Mining
East Plant Monitoring Station
NOx Level 2 Zero and Span Verification

AIR SCIENCES INC.

AIR SCIENCES INC
REVIEWED BY: RPA DATE: 1/2/14
AUDITED BY: WR DATE: 12-2-14

Operator: W.Rucker	Teledyne API T200 NOx Analyzer S/N	197	Verification Start Time	11:47
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	12:08
Date: 12/12/2014			T200 Analyzer Range	500
	NIST Traceable Gas Conc.	40.1	Shelter Temperature (5-40 ° C)	23.86

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NOx Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	Zero	-0.5	0.7	0.2	0.2	Zero Drift ≤ ±1.5 %	NO
400 ppb	400	396.3	-3.6	393.0	0.7	Span Drift ≤ ±10 %	NO

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	-0.5	NO	-0.67	± 2 ppb	NO
	NO_2	-0.8	NO_2	0.61		
	NO_x	0.3	NO_x	0.34		
400 ppb	NO	396.3	NO	396.78	± 2 ppb	NO
	NO_2	-3.6	NO_2	-3.56		
	NO_x	393.0	NO_x	393.87		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	476	Moly Temp. (315 ± 5°C)	314.5
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	643
NOx Slope (1 ± 0.3)	1.245	NO Slope (1 ± 0.3)	1.253
NOx Offset (0 ± 100)	2.2	NO Offset (0 ± 100)	0.4

Operator Comments: Invalidate ~~11:45~~ WR the 11:00 + 12:00 Hours for the verification.

Operator Signature:

1100-1300 Hrs Concentrations INVALIDATED - RPA

Resolution Copper Mining
East Plant Monitoring Station
NOx Level 1 Zero and Span Calibration

AIR SCIENCES INC.

AIR SCIENCES INC
TUCSON / PORTLAND
REVIEWED BY WR DATE 1-2-2015
AUDITED BY RPA DATE 12-9-15

Operator: R. ATTRIDGE	Teledyne API T200 NOx Analyzer S/N	197	Calibration Start Time	1430
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1530
Date: 12-9-14			T200 Analyzer Range	500 ppb
	NIST Traceable Gas Conc.	40.1	Shelter Temperature (5-40 ° C)	24.3

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NOx Response	Analyzer Stability	Acceptance Criteria	Final NOx / Zero Response
Zero Air	ZERO	-0.7	0.9	0.3	0.4	Zero Drift ≤ ± 1.5 %	0.1
400 ppb	400	391.0	1.8	389.4	1.0	Span Drift ≤ ± 10 %	392.1

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	0.0	NO	-0.1	± 2 ppb	NO
	NO_2	0.1	NO_2	0.0		
	NO_x	0.1	NO_x	0.2		
400 ppb	NO	392.7	NO	392.8	± 2 ppb	NO
	NO_2	-0.5	NO_2	-1.6		
	NO_x	392.1	NO_x	391.5		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	474	Moly Temp. (315 ± 5°C)	314.7
Ozone Flow (80 ± 15 cc/min)	81	HVPS (400 - 900 V)	643
NOx Slope (1 ± 0.3)	1.244	NO Slope (1 ± 0.3)	1.246
NOx Offset (0 ± 100)	2.9	NO Offset (0 ± 100)	-0.6

Operator Comments: 1500 - 1600 HRS DATA SHALL BE INVALIDATED -

Operator Signature: R Attridge

AIR SCIENCES INC.
DENVER · PORTLAND

REVIEWED BY RPA DATE 1/2/14
AUDITED BY WR DATE 12-18-14

Resolution Copper Mining
East Plant Monitoring Station
NOx Level 2 Zero and Span Verification

AIR SCIENCES INC.
DENVER · PORTLAND

Operator: Kim Ballard	Teledyne API T200 NOx Analyzer S/N	197	Verification Start Time	12:17
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	12:39
Date: 12/12/2014			T200 Analyzer Range	500 PPB
	NIST Traceable Gas Conc.	40%	Shelter Temperature (5-40 ° C)	22.8

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NOx Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.2	0.4	0.6	0.1	Zero Drift ≤ ±1.5 %	No
400 ppb	400	387.6	-1.5	386.2	0.7	Span Drift ≤ ±10 %	No

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	0.2	NO	0.04	± 2 ppb	No
	NO_2	0.4	NO_2	0.23		
	NO_x	0.6	NO_x	0.50		
400 ppb	NO	387.6	NO	388.2	± 2 ppb	No
	NO_2	-1.5	NO_2	-1.79		
	NO_x	386.2	NO_x	386.77		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	484	Moly Temp. (315 ± 5°C)	315.0
Ozone Flow (80 ± 15 cc/min)	81	HVPS (400 - 900 V)	1043
NOx Slope (1 ± 0.3)	1.244	NO Slope (1 ± 0.3)	1.24
NOx Offset (0 ± 100)	29	NO Offset (0 ± 100)	0.6

Operator Comments: Invalidated the 13:00 hour. WR

Operator Signature: Kim Ballard

AIR SCIENCES INC.
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REVIEWED BY WR	DATE 12-19-14
AUDITED BY RRA	DATE 1-2-15

Resolution Copper Mining
East Plant Monitoring Station
NOx Level 1 Zero and Span Calibration

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: W.Rucker	Teledyne API T200 NOx Analyzer S/N	197	Calibration Start Time	0942 (MST)
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1049 (MST)
Date: 12-19-2014			T200 Analyzer Range	500
	NIST Traceable Gas Conc.	40.1	Shelter Temperature (5-40 ° C)	~~15.36~~ 23.74 WR

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NOx Response	Analyzer Stability	Acceptance Criteria	Final NOx / Zero Response
Zero Air	Zero	0.5	0.8	1.3	0.2	Zero Drift ≤ ± 1.5 %	-0.1
400 ppb	400	385.1	-0.2	384.7	0.4	Span Drift ≤ ± 10 %	401.7

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	0.0	NO	0.41	± 2 ppb	No
	NO_2	-0.1	NO_2	-0.46		
	NO_x	-0.2	NO_x	-0.28		
400 ppb	NO	401.8	NO	401.84	± 2 ppb	No
	NO_2	0.1	NO_2	-0.099		
	NO_x	401.7	NO_x	401.92		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	485	Moly Temp. (315 ± 5°C)	315.3
Ozone Flow (80 ± 15 cc/min)	81	HVPS (400 - 900 V)	643
NOx Slope (1 ± 0.3)	1.292	NO Slope (1 ± 0.3)	1.282
NOx Offset (0 ± 100)	5.9	NO Offset (0 ± 100)	0.6

Operator Comments: Invalidated the 10:00 & 11:00 hours for the calibration. WR

Operator Signature:

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 1-6-15
AUDITED BY WR DATE 1-5-15

Resolution Copper Mining
East Plant Monitoring Station
NOx Level 2 Zero and Span Verification

AIR SCIENCES INC.
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Operator: Kami Ballard	Teledyne API T200 NOx Analyzer S/N	197	Verification Start Time	10:20
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	10:37
Date: 12/30/2014			T200 Analyzer Range	500PPB
	NIST Traceable Gas Conc.	40%	Shelter Temperature (5-40 ° C)	24.75

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NOx Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.4	-2.5	-2.2	0.9	Zero Drift ≤ ±1.5 %	No
400 ppb	400	385.6	-0.2	385.8	0.7	Span Drift ≤ ±10 %	No

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	0.4	NO	0.13	± 2 ppb	No
	NO_2	-2.5	NO_2	-2.75		
	NO_x	-2.2	NO_x	-2.25		
400 ppb	NO	385.6	NO	386.16	± 2 ppb	No
	NO_2	-0.2	NO_2	0.49		
	NO_x	385.8	NO_x	386.98		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	492	Moly Temp. (315 ± 5°C)	315.4
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	643
NOx Slope (1 ± 0.3)	1.292	NO Slope (1 ± 0.3)	1.282
NOx Offset (0 ± 100)	5.9	NO Offset (0 ± 100)	0.6

Operator Comments:
Invalidated the 11:00hour for the verification_WR

Operator Signature: Kami Ballard

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY WR	DATE 10-7-14
AUDITED BY RPA	DATE 10-7-14

Resolution Copper Mining
East Plant Monitoring Station
O_3 Level 1 Zero and Span Calibration

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: R. ATTRIDGE	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	0730
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	0834
Date: 10-7-14			T400 Analyzer Range	0-500 ppb
			Shelter Temperature (5-40 ° C)	24.2

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	ZERO	0.3	0.5	Zero Drift ≤ ± 1.5 %	0.1
400 ppb	400	399.0	0.9	Span Drift ≤ ± 7 %	400.2

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.1	0.9	± 2 ppb	NO
400 ppb	400.2	401.1	± 2 ppb	NO WR

Analyzer Parameters

Sample Flow ~~(550 ± 55~~ 800 ± 80 cc/min)	750	Sample Temp. (10 - 50 °C)	41.5
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	29.1
Slope (1 ± 0.15)	1.054	O_3 Measure (2500 - 4800 mV)	2879.2
Offset (0.0 ± 5 PPB)	-3.4	O_3 Reference (2500 - 4800 mV)	2880.2

Operator Comments:

Hourly concentrations collected from 0800-0900 shall be invalidated – RPA

Operator Signature:

AIR SCIENCES INC

RPA 10-29-14
REVIEWED BY DATE

WR 10-17-14
AUDITED BY DATE

Resolution Copper Mining
East Plant Monitoring Station
O_3 Level 2 Zero and Span Verification

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Operator:	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	2:36
Kami Ballard	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	2:53
Date:			T400 Analyzer Range	500
10/10/2014			Shelter Temperature (5-40 ° C)	21.41

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	-0.4	0.7	Zero Drift ≤ ±1.5 %	No
400 ppb	400	395.8	0.5	Span Drift ≤ ±7 %	No

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	-0.4	0.21	± 2 ppb	No
400 ppb	395.8	396.74	± 2 ppb	No

Analyzer Parameters

Sample Flow (800± 80 cc/min)	763	Sample Temp. (10 - 50 °C)	~~743~~ 39.9
Photo Lamp (58 ± 1 °C)	58	BOX Temp. (30 ± 20 °C)	27.4
Slope (1 ± 0.15)	1.054	O_3 Measure (2500 - 4800 mV)	2877.5
Offset (0.0 ± 5 PPB)	3.4	O_3 Reference (2500 - 4800 mV)	2879.3

Operator Comments: Gigantic Spider hiding inside enclosure!! Not coming back until somebody finds it & kills it!!

Operator Signature: Kami Ballard

Resolution Copper Mining
East Plant Monitoring Station
O_3 Level 1 Zero and Span Calibration

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RPA 10·29·14
REVIEWED BY DATE

WR 10-17-14
AUDITED BY DATE

Operator: W.Rucker	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	13:30
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	~~14:15~~ 15:04
Date: 10/17/14			T400 Analyzer Range	500
			Shelter Temperature (5-40 ° C)	21.51

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	Zero	-0.5	0.5	Zero Drift ≤ ± 1.5 %	0.3
400 ppb	400	402.2	0.6	Span Drift ≤ ± 7 %	404.8

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.3	1.213	± 2 ppb	NO
400 ppb	404.8	405.36	± 2 ppb	NO

Analyzer Parameters

Sample Flow (800 ± 80 cc/min)	744	Sample Temp. (10 - 50 °C)	40.8
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	28.7
Slope (1 ± 0.15)	1.046	O_3 Measure (2500 - 4800 mV)	2871.7
Offset (0.0 ± 5 PPB)	3.8	O_3 Reference (2500 - 4800 mV)	2872.4

Operator Comments: 1400 - 1600 Hrs INVALIDATED - RPA

Operator Signature:

AIR SCIENCES INC

REVIEWED BY: APR DATE: 11/4/14

AUDITED BY: WR DATE: 10/30/14

Resolution Copper Mining

East Plant Monitoring Station

O_3 Level 1 Zero and Span Calibration

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Operator: W.Rucker	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	14:30
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1600
Date: 10/30/14			T400 Analyzer Range	500
			Shelter Temperature (5-40 ° C)	21.75

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	Zero	0.9	0.6	Zero Drift ≤ ± 1.5 %	0.1
400 ppb	400	409.5	0.5	Span Drift ≤ ± 7 %	401.03

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.1	-0.99	± 2 ppb	NO
400 ppb	400	401.03	± 2 ppb	NO

Analyzer Parameters

Sample Flow (800 ± 80 cc/min)	767	Sample Temp. (10 - 50 °C)	39.8
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	28.0
Slope (1 ± 0.15)	1.025	O_3 Measure (2500 - 4800 mV)	2854.2
Offset (0.0 ± 5 PPB)	-3.0	O_3 Reference (2500 - 4800 mV)	2684.3

Operator Comments:

INVALIDATED 1500-1600 HRS — RPA

Operator Signature:

AIR SCIENCES INC.

RPA 11-20-14

REVIEWED BY WR DATE 11-14-14

AUDITED BY DATE

Resolution Copper Mining

East Plant Monitoring Station

O_3 Level 2 Zero and Span Verification

AIR SCIENCES INC.

Operator: William Rucker	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	10:40
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	11:43
Date: 11/14/2014			T400 Analyzer Range	500
			Shelter Temperature (5-40 ° C)	23.84

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0.00	0.3	0.3	Zero Drift ≤ ±1.5 %	No
400 ppb	401	400.5	0.6	Span Drift ≤ ±7 %	No

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.300	0.474	± 2 ppb	No
400 ppb	400.400	400.900	± 2 ppb	No

Analyzer Parameters

Sample Flow (800± 80 cc/min)	748	Sample Temp. (10 - 50 °C)	*40.7*
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	*28.8*
Slope (1 ± 0.15)	1.025	O_3 Measure (2500 - 4800 mV)	*2850.1*
Offset (0.0 ± 5 PPB)	3.0	O_3 Reference (2500 - 4800 mV)	*2850.9*

Operator Comments: 1100 - 1200 HRS INVALIDATED - RPA

Operator Signature:

AIR SCIENCES INC.

WR 12-1-14
REVIEWED BY DATE
RPA 11-20-14
AUDITED BY DATE

Resolution Copper Mining
East Plant Monitoring Station
O_3 Level 1 Zero and Span Calibration

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Operator: R. ATTRIDGE	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	0957
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1120
Date: 11-20-2014			T400 Analyzer Range	500 ppb
			Shelter Temperature (5-40 ° C)	24.1

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	ZERO	-0.6	0.4	Zero Drift ≤ ±1.5 %	0.5
400 ppb	400	402.3	0.4	Span Drift ≤ ±7 %	400.7

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.5	0.9	± 2 ppb	NO
400 ppb	400.7	401.2	± 2 ppb	NO

Analyzer Parameters

Sample Flow (850 ± 55 cc/min)	750 ✓	Sample Temp. (10 - 50 °C)	40.9 ✓
Photo Lamp (58 ± 1 °C)	58.0 ✓	BOX Temp. (30 ± 20 °C)	29.0 ✓
Slope (1 ± 0.15)	1.015 ✓	O_3 Measure (2500 - 4800 mV)	2838.0 ✓
Offset (0.0 ± 5 PPB)	-3.6 ✓	O_3 Reference (2500 - 4800 mV)	2847.4 ✓

Operator Comments: INVALIDATE DATA FROM 0900-1200 HRS ✓ Operator Signature:

R. Attridge

Resolution Copper Mining
East Plant Monitoring Station
O_3 Level 2 Zero and Span Verification

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RPA 1/2/14
REVIEWED BY
WR 12-2-14
AUDITED BY

Operator: W.Rucker	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	12:44
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	~~24~~ WR 13:19
Date: 12-2-14			T400 Analyzer Range	500
			Shelter Temperature (5-40 ° C)	24.75

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	Zero	-0.2	0.6	Zero Drift ≤ ±1.5 %	NO
400 ppb	400	402.1	0.6	Span Drift ≤ ±7 %	NO

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	-0.2	0.51	± 2 ppb	NO
400 ppb	402.1	402.34	± 2 ppb	NO

Analyzer Parameters

Sample Flow (800± 80 cc/min)	750	Sample Temp. (10 - 50 °C)	41.0
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	29.5
Slope (1 ± 0.15)	1.105	O_3 Measure (2500 - 4800 mV)	2842.6
Offset (0.0 ± 5 PPB)	3.6	O_3 Reference (2500 - 4800 mV)	2843.4

Operator Comments: Invalidate the 12:00 + 13:00 Hours.

Operator Signature:

1300 - 1400 HRS INVALIDATED - RPA

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REVIEWED BY WR DATE 1-2-15

AUDITED BY RPA DATE 12-9-15

Resolution Copper Mining
East Plant Monitoring Station
O_3 Level 1 Zero and Span Calibration

AIR SCIENCES INC.

Operator:	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	1430
R. ATTRIDGE	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1615
Date: 12-9-14			T400 Analyzer Range	500 ppb
			Shelter Temperature (5-40 ° C)	23.2

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	ZERO	0.1	0.2	Zero Drift ≤ ± 1.5 %	0.1
400 ppb	400	396.8	0.5	Span Drift ≤ ± 7 %	402.1

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.1	0.4	± 2 ppb	NO
400 ppb	402.1	402.8	± 2 ppb	NO

Analyzer Parameters

Sample Flow (~~800 ± 80 cc/min~~ 800 ± 80)	~~846~~ 746	Sample Temp. (10 - 50 °C)	40.9
Photo Lamp (58 ± 1 °C)	58	BOX Temp. (30 ± 20 °C)	28.8
Slope (1 ± 0.15)	1.026	O_3 Measure (2500 - 4800 mV)	2834.8
Offset (0.0 ± 5 PPB)	* -3.2	O_3 Reference (2500 - 4800 mV)	2835.7

Operator Comments: INVALIDATE THE 1500-1700 HRS CONCENTRATIONS

Operator Signature: R Attridge

* offset slightly below recommendations. WR

OFFSET (0.0 ± 5 PPB) -3.2 ~~[illegible]~~ IS WITHIN THE RECOMMENDED THRESHOLD - RPA

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REVIEWED BY RDA DATE 1/2/15
AUDITED BY WR DATE 12-18-14

Resolution Copper Mining
East Plant Monitoring Station
O_3 Level 2 Zero and Span Verification

AIR SCIENCES INC.
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Operator: Karen Ballard	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	12:55
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	— WR
Date: 12/12/2014			T400 Analyzer Range	400 PPB
			Shelter Temperature (5-40 ° C)	24.62

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.0	0.8	Zero Drift ≤ ±1.5 %	NO
400 ppb	400	402.0	0.8	Span Drift ≤ ±7 %	NO WR

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.0	0.58	± 2 ppb	NO
400 ppb	402.0	403.3	± 2 ppb	NO

Analyzer Parameters

Sample Flow (800± 80 cc/min)	770	Sample Temp. (10 - 50 °C)	40.4
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	28.1
Slope (1 ± 0.15)	1.026	O_3 Measure (2500 - 4800 mV)	2835.0
Offset (0.0 ± 5 PPB)	3.2	O_3 Reference (2500 - 4800 mV)	2836.2

Operator Comments: Invalidated the 1300 + 1400 hrs. WR Operator Signature: Karen Ballard

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RDA 1-2-15
REVIEWED BY WR DATE 12-19-14
AUDITED BY RDA DATE 12/29/14

Resolution Copper Mining
East Plant Monitoring Station
O_3 Level 1 Zero and Span Calibration

AIR SCIENCES INC.
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Operator: W.Rucker	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	1324 (MST)
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1508 (MST)
Date: 12-19-14			T400 Analyzer Range	500
			Shelter Temperature (5-40 ° C)	24.20

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	Zero	-0.1	0.3	Zero Drift ≤ ± 1.5 %	-0.3
400 ppb	399	401.9	0.7	Span Drift ≤ ± 7 %	401.2

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	-0.3	~~0.0049~~ WR 0.0049	± 2 ppb	NO
400 ppb	401.2	401.96	± 2 ppb	

Analyzer Parameters

Sample Flow (800 ± 80 cc/min)	742	Sample Temp. (10 - 50 °C)	42.3
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	30.4
Slope (1 ± 0.15)	1.024	O_3 Measure (2500 - 4800 mV)	2826.3
Offset (0.0 ± 5 PPB)	-2.0	O_3 Reference (2500 - 4800 mV)	2827.1

Operator Comments: Invalidated the 13:00 thru 16:00 hours for the calibration _ WR

Operator Signature:

AIR SCIENCES INC.
RPA 1-6-15 DATE
REVIEWED BY
WR 1-5-15 DATE
ENTERED BY

Resolution Copper Mining
East Plant Monitoring Station
O_3 Level 2 Zero and Span Verification

AIR SCIENCES INC.
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Operator: Karen Ballard	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	10:57
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	11:12
Date: 12/30/2014			T400 Analyzer Range	500 PPB
			Shelter Temperature (5-40 ° C)	25.65

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	-1.1	0.4	Zero Drift ≤ ±1.5 %	No
400 ppb	400	401.6	0.8	Span Drift ≤ ±7 %	No

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	-1.1	-0.28	± 2 ppb	No
400 ppb	401.6	401.95	± 2 ppb	No

Analyzer Parameters

Sample Flow (800± 80 cc/min)	762	Sample Temp. (10 - 50 °C)	41.6
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	29.6
Slope (1 ± 0.15)	1.024	O_3 Measure (2500 - 4800 mV)	2821.6
Offset (0.0 ± 5 PPB)	2.0	O_3 Reference (2500 - 4800 mV)	2821.4

Operator Comments:

Invalidated the 11:00 & 12:00 hours for the verification _ WR

Operator Signature: Karen Ballard

Appendix I: Audits and Calibrations

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Air Quality Audit and Calibration Report Resolution Copper East Plant Monitoring Station

PREPARED FOR:
RESOLUTION COPPER MINING

PREPARED BY:
AIR SCIENCES INC.

PROJECT NO. 262-9-02
OCTOBER 2014

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Appendix A – Audit and Calibration Forms

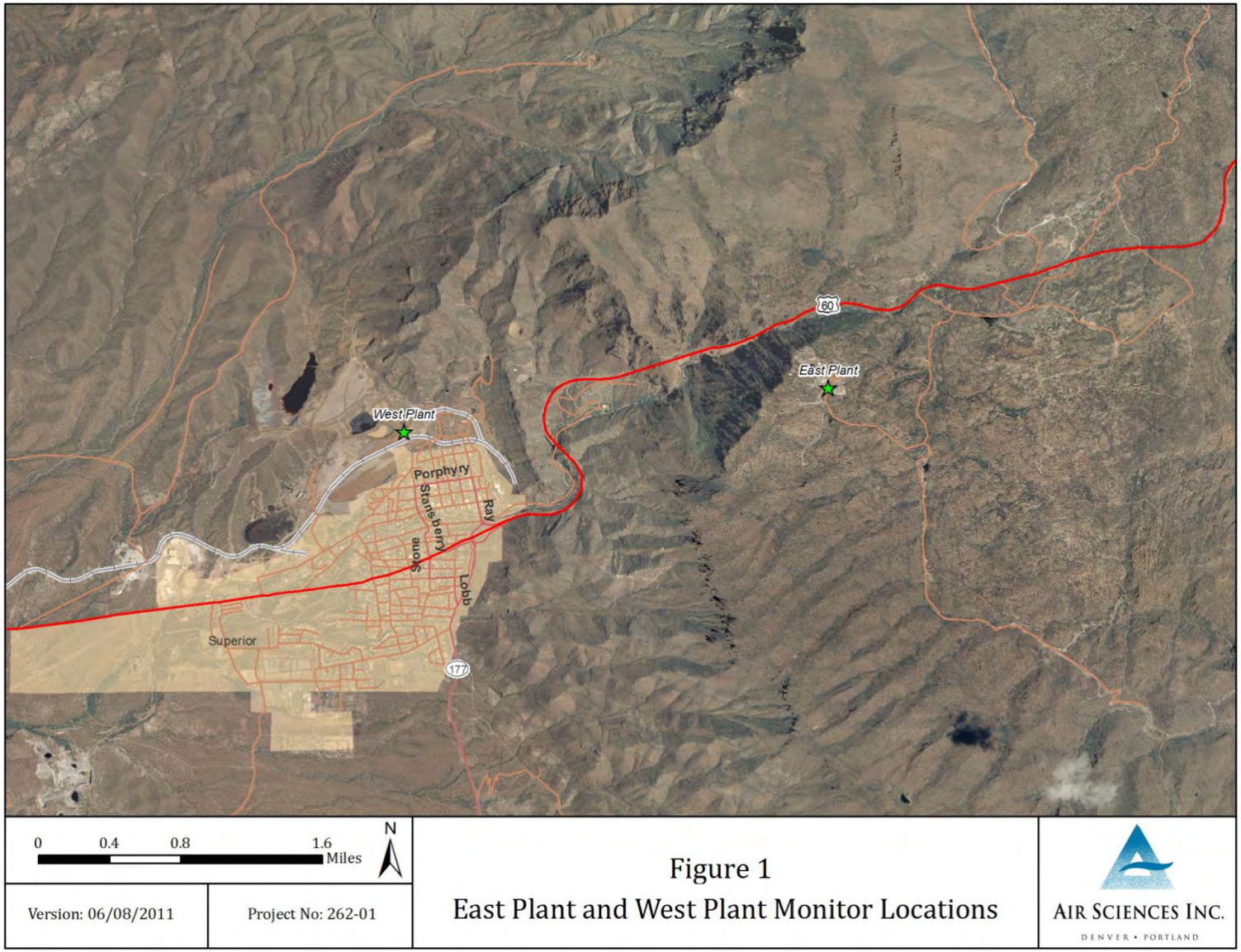
1.0 INTRODUCTION

On October 20, 2014, particulate monitoring instrumentation was audited and/or calibrated at the Resolution Copper East Plant near Superior, AZ. The East Plant monitoring station is operated by the Resolution Copper Mining Company and is located approximately two miles east of the West 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 and/or calibration procedures for the meteorological, particulate, and ambient gas instrumentation at the East Plant monitoring station. The audit/calibration activities described in this report were conducted in accordance with the applicable 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
- EPA-454/B-13-004, Transfer Standards for the Audit of Ambient Air Monitoring Analyzers for Ozone
- Code of Federal Regulations (40 CFR Parts 50 and 58)

Figure 1. Project Location Map – Resolution Copper East Plant and West Plant Monitoring Station Locations



2.0 SYSTEM DESCRIPTION

The instrumentation at the East Plant monitoring site measures 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 particulate and gaseous analyzers are housed in a 60-square-foot climate-controlled trailer. The sensor and particulate inlet heights are listed in Table 1 (as measured from ground-level).

Table 1. Sensors and Sample Inlet Heights (meters above the ground)

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

The meteorological and ambient gas data 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 one-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 and Storage System

(DASS) for quality assurance checks. These raw 15-minute averages are used as input for the calculation of one-hour averages.

PM_{10} and $PM_{2.5}$ are measured by two Met One Instruments model BAM-1020 particulate monitors. The BAM-1020 is a continuous monitoring device that produces 1-hour averages and a 24-hour average concentration for the period of 12:00 a.m. (midnight) through 11:59 p.m. for each calendar day. Particulate data are downloaded every hour onto the on-site datalogger via serial communications and are transported via wireless broadband modem directly to the DASS.

3.0 AUDIT AND CALIBRATION METHODOLOGY

This section provides the audit and/or calibration procedures for the particulate instrumentation at the Resolution Copper East Plant monitoring site. Copies of the completed audit and/or calibration forms are included in Appendix A.

3.1 Particulate Matter Audit Procedures

The BAM-1020 PM_{10} and $PM_{2.5}$ monitors were audited 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 instruments to assure optimal operations. The temperature, barometric pressure, and flow output readings from the deltaCal and the BAM-1020 monitor were recorded on a standardized form.

4.0 RESULTS AND RECOMMENDATIONS

On October 20, 2014, Air Sciences Inc. (Air Sciences) personnel discovered The BAM-1020 PM_{10} and $PM_{2.5}$ monitors to be clean, serviceable, and within their recommended tolerance parameters.

The on-site cellular broadband communications signal has been improved by cellular signal booster installation.

Particulate data collected during the on-site audit and calibration activities described in this report will be invalidated.

Appendix A – Audit and Calibration Forms

East Plant BAM-1020 PM_{10} Audit Sheet

Model:	**BAM-1020**	**Serial Number:**	M8714
Audit Date:	10/20/14	**Audited By:**	G. Gylys
Audit Time:	15:34 - 17:18		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	723	Calibration Date:	8/24/2014
Temperature Standard Used:	Model:	Delta Cal	Serial No:	723	Calibration Date:	8/24/2014
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	723	Calibration Date:	8/24/2014

Leak Check Value:	as found:	0.6 LPM	Should Be: <1.0	as left:	0.5 LPM	Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	23.5	23.3	as left:	22.2	22.2	Adjusted	X
Barometric Pressure (mmHg):	as found:	662	652.5	as left:	653	652.5	Adjusted	X
Flow Rate (15.0 LPM):	as found:	15.0	15.86	as left:	15.0	14.98	Adjusted	X
Flow Rate (18.4 LPM):	as found:	18.3	19.36	as left:	18.4	18.39	Adjusted	X
Flow Rate (16.7 LPM):	as found:	16.7	17.59	as left:	16.7	16.66	Adjusted	X

Audit Notes: **Cleaned reference membrane and assembly, nozzle componnents.**

Mechanical Audits

Pump muffler unclogged:	As found	X	As left		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			
Chassis ground wire installed:	As found	X	As left		Inlet tube perpendicular to BAM:	As found	X	As left			

Signature:

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

Model:	**BAM-1020**	**Serial Number:**	M6466
Audit Date:	10/20/2014	**Audited By:**	G. Gylys
Audit Time:	15:25 - 16:29		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	723	Calibration Date:	8/24/2014
Temperature Standard Used:	Model:	Delta Cal	Serial No:	723	Calibration Date:	8/24/2014
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	723	Calibration Date:	8/24/2014

Leak Check Value:	as found:	0.7 LPM	Should Be: <1.0	as left: 0.7 LPM	Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	24.6	26.7	as left:	23.3	22.6	Adjusted	X
Barometric Pressure (mmHg):	as found:	645	652.5	as left:	653	652.5	Adjusted	X
Flow Rate (15.0 LPM):	as found:	15.0	15.57	as left:	14.9	14.92	Adjusted	X
Flow Rate (18.4 LPM):	as found:	18.3	18.45	as left:	18.3	18.26	Adjusted	X
Flow Rate (16.7 LPM):	as found:	16.6	17.03	as left:	16.6	16.6	Adjusted	X

Audit Notes: **Cleaned reference membrane and assembly, nozzle components.**

Mechanical Audits										
Pump muffler unclogged:	As found	X	As left	X	PM10 particle trap clean:	As found		As left		N/A X
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	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		

Signature:

AIR SCIENCES INC.

DENVER • PORTLAND

Air Quality Audit and Calibration Report Resolution Copper East Plant Monitoring Station

PREPARED FOR:
RESOLUTION COPPER MINING

PREPARED BY:
AIR SCIENCES INC.

PROJECT NO. 262-9-02
NOVEMBER 2014

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Appendix A – Audit and Calibration Forms

1.0 INTRODUCTION

On November 5, 2014, the ambient gas instrumentation was audited and/or calibrated at the Resolution Copper East Plant near Superior, AZ. The East Plant monitoring station is operated by the Resolution Copper Mining Company and is located approximately two miles east of the West 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 and/or calibration procedures for the meteorological, particulate, and ambient gas instrumentation at the East Plant monitoring station. The audit/calibration activities described in this report were conducted in accordance with the applicable 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
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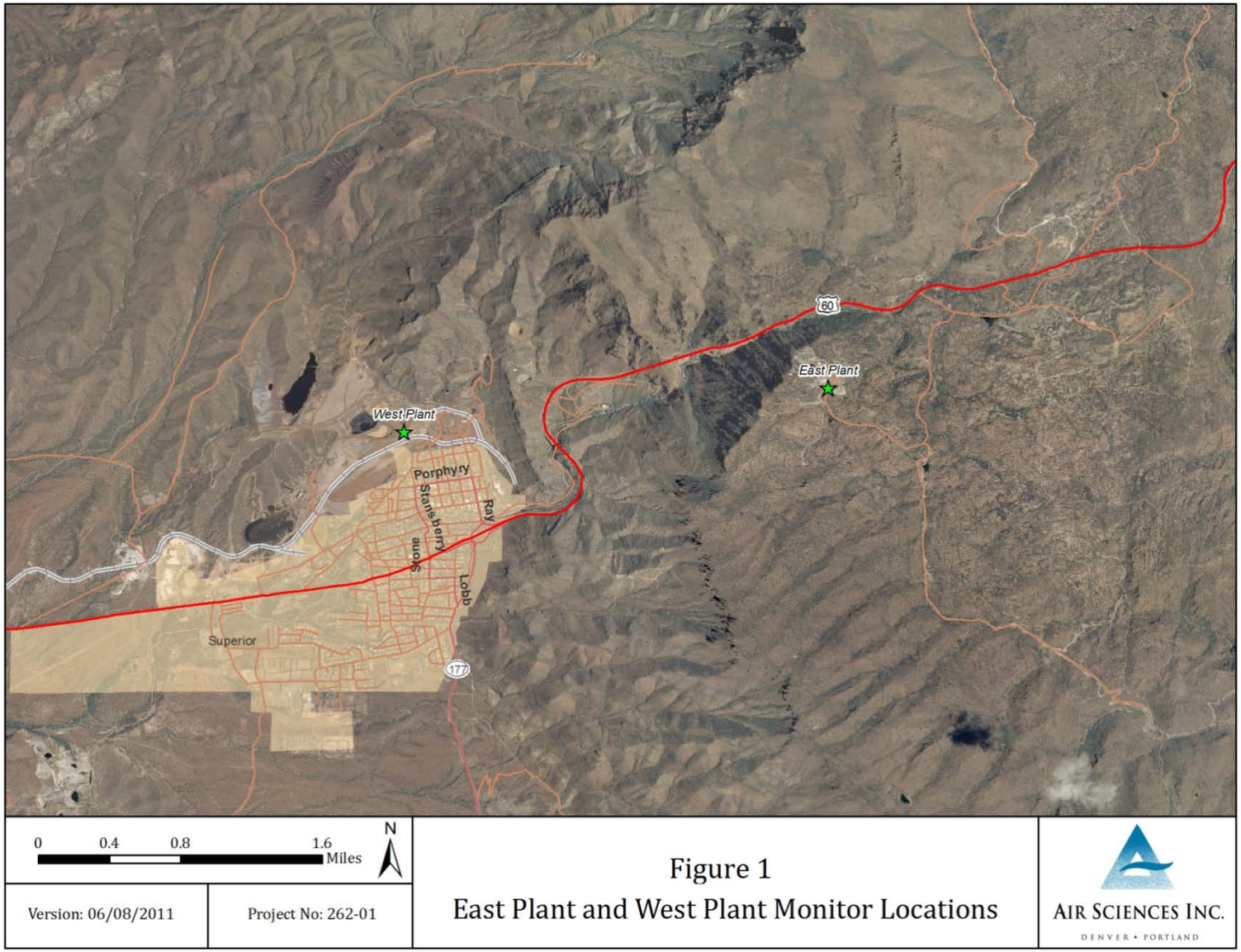
- Code of Federal Regulations (40 CFR Parts 50 and 58)

Figure 1. Project Location Map – Resolution Copper East Plant and West Plant Monitoring Station Locations



2.0 SYSTEM DESCRIPTION

The instrumentation at the East Plant monitoring site measures 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 particulate and gaseous analyzers are housed in a 60-square-foot climate-controlled trailer. The sensor and particulate inlet heights are listed in Table 1 (as measured from ground-level).

Table 1. Sensors and Sample Inlet Heights (meters above the ground)

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

The meteorological and ambient gas data 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 one-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 and Storage System

(DASS) for quality assurance checks. These raw 15-minute averages are used as input for the calculation of one-hour averages.

PM_{10} and $PM_{2.5}$ are measured by two Met One Instruments model BAM-1020 particulate monitors. The BAM-1020 is a continuous monitoring device that produces 1-hour averages and a 24-hour average concentration for the period of 12:00 a.m. (midnight) through 11:59 p.m. for each calendar day. Particulate data are downloaded every hour onto the on-site datalogger via serial communications and are transported via wireless broadband modem directly to the DASS.

3.0 AUDIT AND CALIBRATION METHODOLOGY

This section provides the audit and/or calibration procedures for the ambient gas instrumentation at the Resolution Copper East Plant monitoring site. Copies of the completed audit and/or calibration forms are included in Appendix A.

3.1 Ambient Gas Audit Procedures

The audit of the Teledyne T100 SO_2 and T200 NO_X analyzers involved a Multi-Point Audit (MPA). The MPA was performed by using a Transfer Standard Teledyne API T700 Dilution Calibrator to dilute certified multi-component EPA-protocol audit gas with a clean zero-air source. The T100 SO_2 and T200 NO_X analyzer was challenged at zero, and at five points within the instruments range—typically a point from 100 to 500 parts per billion (ppb) of SO_2 or NOx.

The audit of the Teledyne T400 O_3 analyzer involved an MPA. The MPA was performed by using a Transfer Standard Teledyne API T700 Dilution Calibrator to generate O_3 gas to audit 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.

3.2 Ambient Gas Calibration Procedures

The calibration of the Teledyne T100 SO_2 and T200 NO_X analyzers involved a Multi-Point Calibration (MPC). The MPC was performed by using the Primary Standard Teledyne API T700 Dilution Calibrator to dilute certified multi-component EPA-protocol calibration gas with a clean zero-air source. The T100 SO_2 and T200 NO_X analyzer was challenged at zero, and at five points within the instruments range—typically from 100 to 500 parts per billion (ppb) of SO_2 or NOx.

The calibration of the Teledyne T400 O_3 analyzer involved an MPC. The MPC was performed by using Primary Standard Teledyne API T700 Dilution Calibrator to generate O_3 gas and calibrate the T400 analyzer at zero, and at a five points within the instrument range—typically from 100 to 500 ppb of O_3.

4.0 RESULTS AND RECOMMENDATIONS

On November 5, 2014, Air Sciences Inc. (Air Sciences) personnel determined the ambient gas analyzers to be serviceable, and within their recommended tolerance parameters.

Ambient gas data collected during the on-site audit and calibration activities described in this report will be invalidated.

Appendix A – Audit and Calibration Forms

Resolution Copper Mining
East Plant Monitoring Station
NOx Multipoint Audit

AIR SCIENCES INC.

Operator: R. Attridge	Teledyne API T200 NOx Analyzer S/N	197	Multipoint Start Time	0710
	Teledyne API T700 Transfer Standard Dilution Calibrator S/N	816	Multipoint Stop Time	1015
Date: 11/05/2014			T200 Analyzer Range	500ppb
	NIST Traceable Gas Conc.	40.9 NO ppm	Shelter Temperature (5-40 ° C)	25.1

Multipoint Audit (Quarterly, or as needed):
Check the analyzer response over 0 – 500 ppb range using the Transfer Standard Dilution Calibrator.

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	0.2	0.0	0.2	-1.8	PASS, 0 ± 5
100	100	91.4	-0.7	90.7	90.4	PASS, 0.4%
200	200	181.8	-1.4	180.2	182.5	PASS, 1.3%
300	300	277.8	-1.8	276.0	274.7	PASS, 0.5%
400	400	363.0	-2.7	360.1	366.9	PASS, 1.8%
500	500	465.9	-1.0	464.5	459.0	PASS, 1.2%

Best Fit Line (BFL)

Y= 0.9216x + -1.7762

R^2= 0.99942

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	485	Moly Temp. (315 ± 5°C)	*316.3*
Ozone Flow (80 ± 15 cc/min)	81	HVPS (400 - 900 V)	*643*
NOx Slope (1 ± 0.3)	1.025	NO Slope (1 ± 0.3)	*1.211*
NOx Offset (0 ± 100)	3.8	NO Offset (0 ± 100)	*0.4*

Operator Comments: NONE

Operator Signature: Ray Attridge

Resolution Copper Mining
East Plant Monitoring Station
SO_2 Multipoint Audit

AIR SCIENCES INC.

Operator: R. Attridge	Teledyne API T100 SO_2 Analyzer S/N	193	Multipoint Start Time	1000
	Teledyne API T700 Transfer Standard Dilution Calibrator S/N	816	Multipoint Stop Time	1100
Date: 11/05/2014			T100 Analyzer Range	500ppb
	NIST Traceable Gas Conc.	40.0	Shelter Temperature (5-40 ° C)	22.8

Multipoint Audit (Quarterly, or as needed):

Check analyzer response between 0 – 500 ppb range using the Transfer Standard Dilution Calibrator.

Transfer Standard:

Target (PPB)	Actual Generated SO_2 (PPB)	SO_2 Response (PPB)	Best Fit Line (PPB)	Acceptable Criteria (± 2% from BFL)
Zero Air	0.0	-0.9	-3.7	PASS, <2% FS
100	100.0	88.3	88.1	PASS, 0.3%
200	200.0	178.8	180.0	PASS, 0.7%
300	300.0	267.3	271.9	PASS, 1.7%
400	400.0	358.6	363.8	PASS, 1.4%
500	500.0	462.5	455.6	PASS, 1.5%

Best Fit Line (BFL)

$Y = 0.9187X + -3.7177$

$R^2 = 0.99913$

Analyzer Parameters

Sample Flow (450 ± 45 cc/min)	633	Sample Press. (Ambient ± 2 in-Hg)	26.8
UV Lamp (1000 - 4800 mV)	2155.2	Lamp Ratio (30 - 120%)	91.2
Slope (1 ± 0.3)	1.068	BOX Temp. (Ambient ± 5°C)	32.8
Offset (< 250 mV)	24.3	HVPS (400 - 900 V)	614

Operator Comments: NONE

Operator Signature:

Resolution Copper Mining
East Plant Monitoring Station
O_3 Multipoint Audit

AIR SCIENCES INC.

Operator: R. Attridge	Teledyne API T400 O_3 Analyzer S/N	224	Multipoint Start Time	1100
	Teledyne API T700 Transfer Standard Dilution Calibrator S/N	816	Multipoint Stop Time	1200
Date: 11/5/2014			T400 Analyzer Range	500ppb
			Shelter Temperature (5-40 ° C)	24.3

Multipoint Audit (Quarterly, or as needed):

Check the analyzer response over 0 - 500 ppb range using the Transfer Standard Dilution Calibrator.

Transfer 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	-0.5	1.0	PASS, <2%FS
100	100	105.3	104.4	PASS, 1.5%
200	200	208.2	207.7	PASS, 0.4%
300	300	314.4	311.0	PASS, 0.2%
400	400	415.3	414.3	PASS, 0%
500	500	514.8	517.6	PASS, 0.1%

Best Fit Line (BFL)

$Y=1.0331x + 0.0571$

$R^2= 0.99985$

Analyzer Parameters

Sample Flow (550 ± 55 cc/min)	546	Sample Temp. (10 - 50 °C)	*40.5*
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	*28.4*
Slope (1 ± 0.15)	1.025	O_3 Measure (2500 - 4800 mV)	*2852.6*
Offset (0.0 ± 5 PPB)	-3.0	O_3 Reference (2500 - 4800 mV)	*2853.4*

Operator Comments: NONE

Operator Signature:

Resolution Copper Mining
East Plant Monitoring Station
NOx Multipoint Calibration

AIR SCIENCES INC.

Operator: B. Rucker	Teledyne API T200 NOx Analyzer S/N	197	Multipoint Start Time	1015
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Multipoint Stop Time	1243
Date: 11/5/2014			T200 Analyzer Range	500ppb
	NIST Traceable Gas Conc.	40.1ppm	Shelter Temperature (5-40 ° C)	25.1

Multipoint Calibration (Quarterly, or as needed):

Check the analyzer response over 0 – 500 ppb range using the Primary Standard 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	0.3	-0.5	-0.2	-0.6	PASS, 0 ± 5
100	101	101.2	-0.4	100.9	100.7	PASS, 0.2%
200	200	202.3	-2.3	200.1	199.9	PASS, 0.1%
300	300	304.2	-2.5	301.8	300.2	PASS, 0.5%
400	400	394.9	-1.3	393.9	400.4	PASS, 1.6%
500	500	504.7	-0.3	504.8	500.7	PASS, 0.8%

Best Fit Line (BFL)
Y= 1.0025x + -0.5727
R= 0.99964

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	*485*	Moly Temp. (315 ± 5°C)	*316.3*
Ozone Flow (80 ± 15 cc/min)	*81*	HVPS (400 - 900 V)	*643*
NOx Slope (1 ± 0.3)	*1.207*	NO Slope (1 ± 0.3)	*1.211*
NOx Offset (0 ± 100)	*3.8*	NO Offset (0 ± 100)	*0.4*

Operator Comments: **Replaced particle filter.**

Operator Signature:

Resolution Copper Mining
East Plant Monitoring Station
SO_2 Multipoint Calibration

AIR SCIENCES INC.

Operator: B. Rucker	Teledyne API T100 SO_2 Analyzer S/N	193	Multipoint Start Time	1300
	Teledyne API T700 Transfer Standard Dilution Calibrator S/N	191	Multipoint Stop Time	1400
Date: 11/05/2014			T100 Analyzer Range	500ppb
	NIST Traceable Gas Conc.	40.4	Shelter Temperature (5-40 ° C)	21.8

Multipoint Calibration (Quarterly, or as needed):

Check analyzer response between 0 – 500 ppb range using the Transfer Standard Dilution Calibrator.

Transfer Standard:

Target (PPB)	Actual Generated SO_2 (PPB)	SO_2 Response (PPB)	Best Fit Line (PPB)	Acceptable Criteria (± 2% from BFL)
Zero Air	0.0	-0.1	-0.7	PASS, <2%FS
100	101.0	99.8	101.1	PASS, 1.3%
200	200.0	200.6	200.8	PASS, 0.1%
300	300.0	300.3	301.5	PASS, 0.4%
400	400.0	402.0	402.2	PASS, 0%
500	500.0	503.8	502.9	PASS, 0.2%

Best Fit Line (BFL)

$Y = 1.0071x + -0.6627$

$R^2 = 0.99998$

Analyzer Parameters

Sample Flow (450 ± 45 cc/min)	631	Sample Press. (Ambient ± 2 in-Hg)	25.9
UV Lamp (1000 - 4800 mV)	2153.3	Lamp Ratio (30 - 120%)	91.1
Slope (1 ± 0.3)	1.063	BOX Temp. (Ambient ± 5°C)	33.9
Offset (< 250 mV)	24.6	HVPS (400 - 900 V)	614

Operator Comments: Changed particle filter.

Operator Signature:

Resolution Copper Mining
East Plant Monitoring Station
O_3 Multipoint Calibration

AIR SCIENCES INC.

Operator: B. Rucker	Teledyne API T400 O_3 Analyzer S/N	224	Multipoint Start Time	1200
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Multipoint Stop Time	1700
Date: 11/05/2014			T400 Analyzer Range	500 ppb
			Shelter Temperature (5-40 ° C)	24.6

Multipoint Calibration (Quarterly, or as needed):

Check the analyzer response over 0 - 500 ppb range using the Primary Standard 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	-0.8	-1.0	PASS, <2%FS
100	100	100.6	99.7	PASS, 0.9%
200	200	201.6	200.5	PASS, 0.6%
300	300	300.4	301.3	PASS, 0.3%
400	400	402.5	402.0	PASS, 0.1%
500	500	502.9	502.8	PASS, 0%

Best Fit Line (BFL)

$Y = 1.0076x + -1.0429$

$R^2 = 0.99999$

Analyzer Parameters

Sample Flow (550 ± 55 cc/min)	558	Sample Temp. (10 - 50 °C)	40.2
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	28.7
Slope (1 ± 0.15)	1.025	O_3 Measure (2500 - 4800 mV)	2852.6
Offset (0.0 ± 5 PPB)	-3.0	O_3 Reference (2500 - 4800 mV)	2853.6

Operator Comments: Observed minimal analyzer drift since the last level 1 Zero/Span calibration performed on 10/30/2014 therefore the slope and offset values remained the same. Replaced the particle filter.

Operator Signature:

AIR SCIENCES INC.

DENVER • PORTLAND

Air Quality Audit and Calibration Report Resolution Copper West Plant Monitoring Station

PREPARED FOR:
RESOLUTION COPPER MINING

PREPARED BY:
AIR SCIENCES INC.

PROJECT NO. 262-9-02
OCTOBER 2014

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Appendices

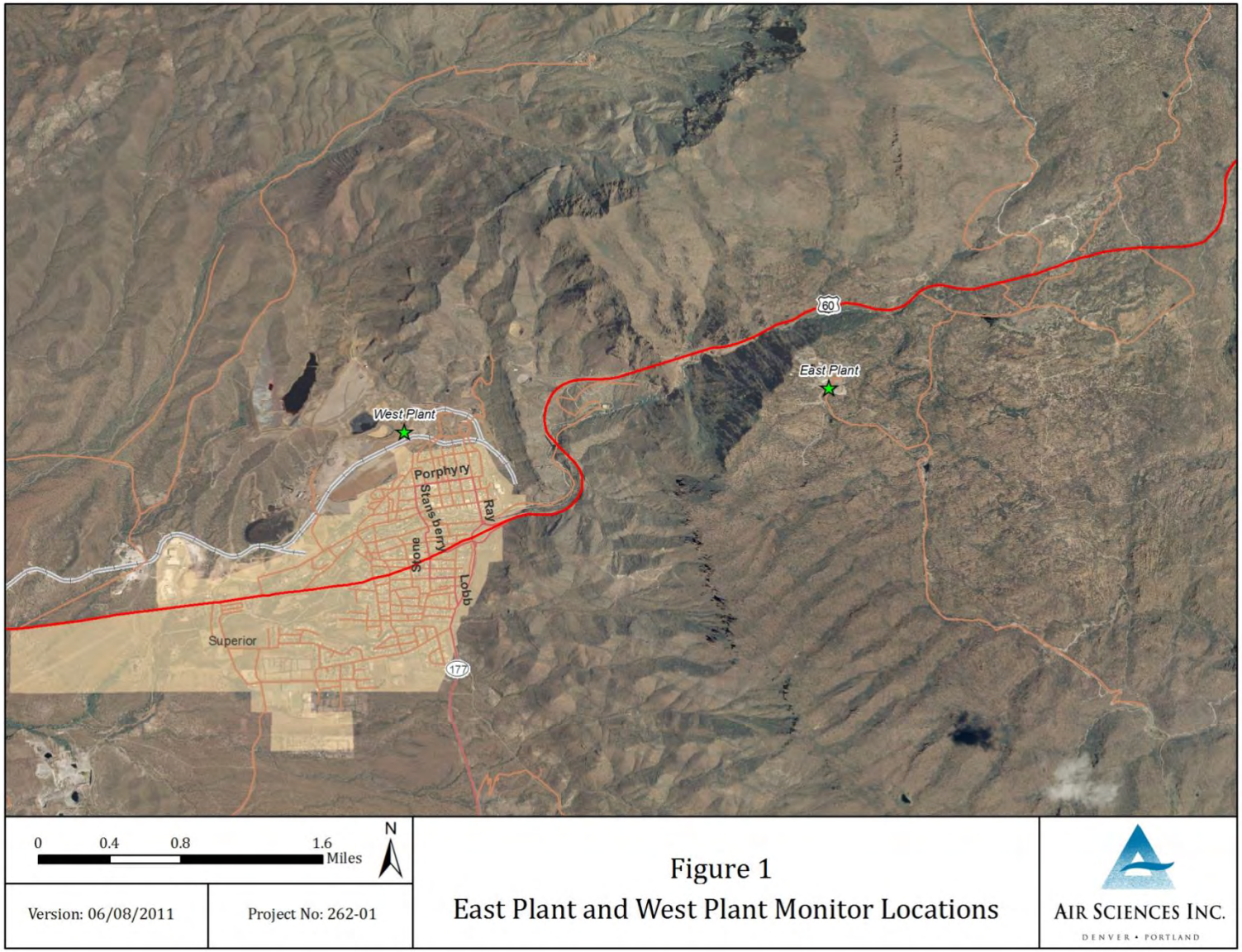
Appendix A – Audit and Calibration Forms

1.0 INTRODUCTION

On October 20, 2014, particulate monitoring instrumentation was audited and/or calibrated at the Resolution Copper West Plant near Superior, AZ. The West Plant monitoring station is operated by the Resolution Copper Mining Company and is located approximately one quarter mile west of the administration buildings (see Figure 1). The audit/calibration activities described in this report were conducted in accordance with the applicable 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 – Resolution Copper East Plant and West Plant Monitoring Station Locations



2.0 SYSTEM DESCRIPTION

The instrumentation at the West Plant monitoring site measures 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 sensor and particulate inlet heights are listed in Table 1 (as measured from ground-level).

Table 1. Sensor and Particulate Inlet Heights (meters above the ground)

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 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 one-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 and Storage System (DASS) for quality assurance checks. These raw 15-minute averages are used as input for the calculation of one-hour averages.

PM_{10} and $PM_{2.5}$ are measured by two Met One Instruments model BAM-1020 particulate monitors. The BAM-1020 is a continuous monitoring device that produces 1-hour averages and a 24-hour average concentration for the period of 12:00 a.m. (midnight) through 11:59 p.m. for each calendar day. Particulate data are downloaded every hour onto the on-site datalogger via serial communications and are transported via wireless broadband modem directly to the DASS.

3.0 AUDIT AND CALIBRATION METHODOLOGY

This section provides the audit and/or calibration procedures for the particulate instrumentation at the Resolution Copper West Plant monitoring site. Copies of the completed audit and/or calibration forms are included in Appendix A.

3.1 Particulate Matter Audit Procedures

The BAM-1020 PM_{10} and $PM_{2.5}$ monitors were audited 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 instruments 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

On October 20, 2014, Air Sciences Inc. (Air Sciences) personnel discovered The BAM-1020 PM_{10} and $PM_{2.5}$ monitors to be clean, serviceable, and within their recommended tolerance parameters.

Particulate data collected during the on-site audit and calibration activities described in this report will be invalidated.

Appendix A – Audit and Calibration Forms

AIR SCIENCES INC.

West Plant BAM-1020 PM_{10} Audit Sheet

Model:	**BAM-1020**	**Serial Number:**	M8712
Audit Date:	10/20/2014	**Audited By:**	W.Rucker
Audit Time:	10:00 - 13:30		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	DeltaCal	Serial No:	723	Calibration Date:	8/24/2014
Temperature Standard Used:	Model:	DeltaCal	Serial No:	723	Calibration Date:	8/24/2014
Barometric Pressure Standard Used:	Model:	DeltaCal	Serial No:	723	Calibration Date:	8/24/2014

Leak Check Value:	as found:	0.4	Should Be: <1.0	as left:	0.5	Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature:	as found:	24.5	23.0	as left:	26.0	26.1	Adjusted	X
Barometric Pressure:	as found:	683	683.5	as left:	683	683	Adjusted	X
Flow Rate (15.0 lpm):	as found:	15.1	15.26	as left:	15.0	15.02	Adjusted	X
Flow Rate (18.4 lpm):	as found:	18.4	18.57	as left:	18.4	18.41	Adjusted	X
Flow Rate (16.7 lpm):	as found:	16.7	16.90	as left:	16.7	16.69	Adjusted	X

Calibration Notes: Inspected and cleaned all nozzle components, and adjusted proper nozzle spring tension.

Mechanical Audits

Pump muffler unclogged:	As found	X	As left	X	PM10 particle trap clean:	As found		As left	X	N/A	
Sample nozzle clean:	As found		As left	X	PM10 drip jar empty:	As found	X	As left	X	N/A	
Tape support vane clean:	As found		As left	X	PM10 bug screen clear:	As found	X	As left	X	N/A	
Capstan shaft clean:	As found		As left	X	PM2.5 particle trap clean:	As found		As left		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:	10/20/2014	**Audited By:**	G. Gylys
Audit Time:	1000-1330 hrs		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	723	Calibration Date:	8/24/2014
Temperature Standard Used:	Model:	Delta Cal	Serial No:	723	Calibration Date:	8/24/2014
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	723	Calibration Date:	8/24/2014

Leak Check Value:	as found:	0.4 LPM	Should Be: <1.0	as left:	0.2 LPM	Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	24.4	23.2	as left:	25.4	25.3	Adjusted	X
Barometric Pressure (mmHg):	as found:	685	683.5	as left:	684	683.5	Adjusted	X
Flow Rate (15.0 LPM):	as found:	15.0	15.22	as left:	15.0	15.05	Adjusted	X
Flow Rate (18.4 LPM):	as found:	18.4	18.72	as left:	18.4	18.38	Adjusted	X
Flow Rate (16.7 LPM):	as found:	16.7	16.99	as left:	16.7	16.74	Adjusted	X

Audit Notes: **Cleaned reference membrane and assembly; nozzle components.**

Mechanical Audits										
Pump muffler unclogged:	As found	X	As left		PM10 particle trap clean:	As found		As left		N/A	X
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	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		Inlet tube perpendicular to BAM:	As found	X	As left			

Signature:

Appendix J: CD