AIR SCIENCES INC.

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Baseline Meteorological and Air Quality Data Report Resolution Copper Mining Project

April 1 – June 30, 2014

PREPARED FOR:
RESOLUTION COPPER
A MEMBER OF RIO TINTO GROUP

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1.0 INTRODUCTION

This report summarizes the meteorological, nitrogen dioxide (NO_2), sulfur dioxide (SO_2), ozone (O_3), and particulate matter (PM) data collected at the Resolution Copper Project near Superior, Arizona for the second quarter, April 1 – June 30, 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

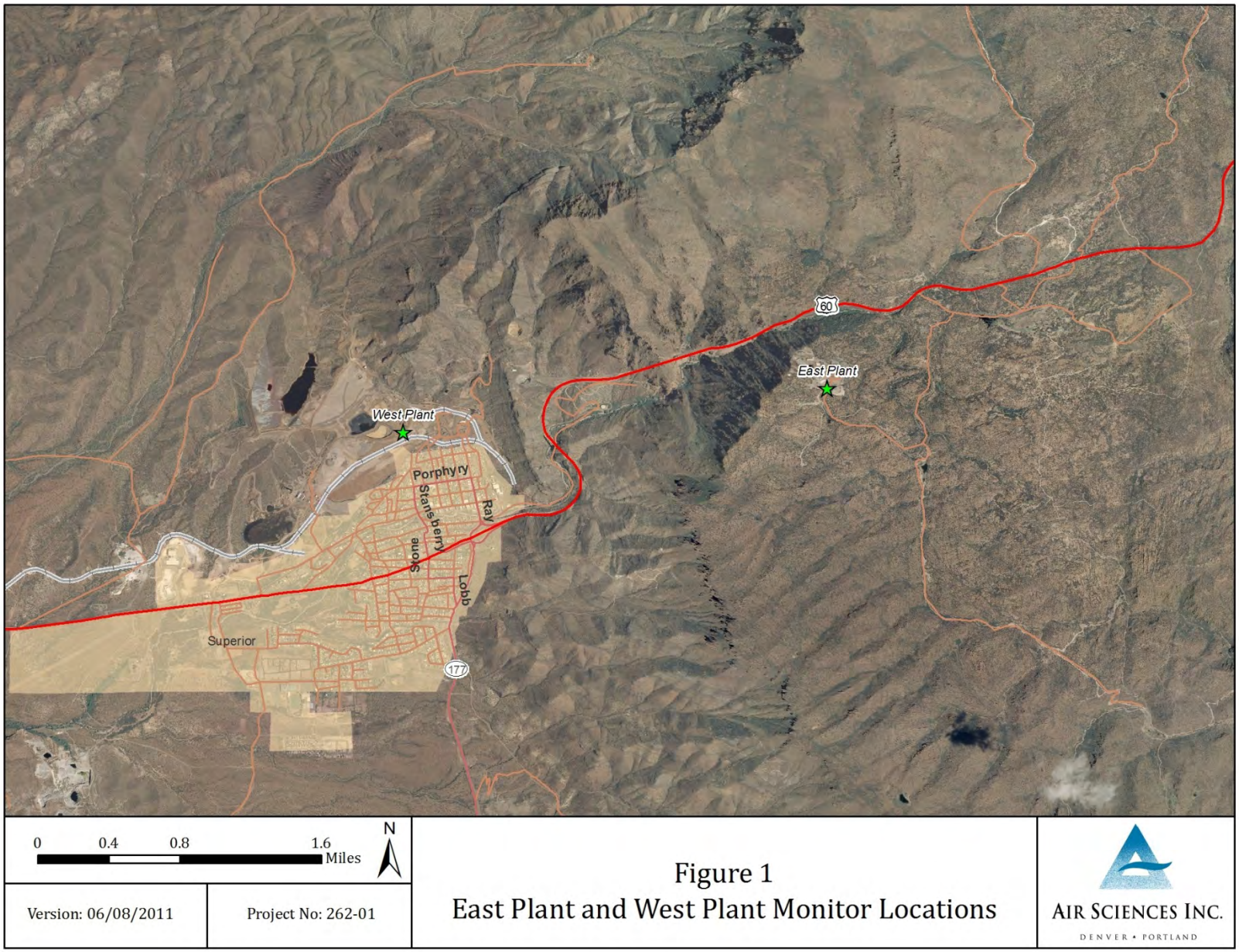
The Resolution Copper Project is located near Superior, Arizona. Currently there are two meteorological and air quality stations. The East Plant station is located at the main project site, east of Superior. The West Plant station is located at RCML's facilities directly north of Superior, Arizona. The 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 April 1 through June 30, 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 April 1 through June 30, 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 April 1 through June 30, 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 April 1 through June 30, 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 April 1 through June 30, 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
April 1 – June 30, 2014
(percent)

	East Plant		West Plant		
Parameter*	**Recorded Observations**	**Recovery Rate**	**Recorded Observations**	**Recovery Rate**	**Minimum Required Recovery Rate**
Meteorological					
Wind speed (10 m)	2,184	100	2,184	100	90
Wind direction (10 m)	2,184	100	2,184	100	90
Temperature (2 m)	2,184	100	2,184	100	90
Delta temperature	2,184	100	2,184	100	90
Relative humidity	2,184	100	2,184	100	90
Barometric pressure	2,184	100	2,184	100	90
Precipitation	2,184	100	2,184	100	90
Solar radiation	2,184	100	2,184	100	90
NO_2	83	91.2	--	--	75
O_3	83	91.2	--	--	75
SO_2	83	91.2	--	--	75
PM_{10}	87	95.6	90	98.9	75
$PM_{2.5}$	86	94.5	82	90.1	75

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

2.1 Data Loss

2.1.1 Meteorological Data Loss

2.1.1.1 East Plant

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

2.1.1.2 West Plant

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

2.1.2 NO_2 Data Loss

NO_2 24-hour maximum data were invalidated from April 9 through April 10, 2014, due to maintenance, and a calibration performed by Air Sciences. 24-hour maximum data were also invalidated from June 14 through June 19, 2014, as a result of a power failure.

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

2.1.3 SO_2 Data Loss

SO_2 24-hour maximum data were invalidated from April 9 through April 10, 2014, due to maintenance, and a calibration performed by Air Sciences. 24-hour maximum data were also invalidated from June 14 through June 19, 2014, as a result of a power failure.

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

2.1.4 O_3 Data Loss

O_3 rolling 8-hour maximum data were invalidated from April 9 through April 10, 2014, due to maintenance, and a calibration performed by Air Sciences. 24-hour maximum data were also invalidated from June 14 through June 19, 2014, as a result of a power failure.

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

2.1.5 PM Data Loss

2.1.5.1 East Plant

Hourly PM_{10} data were invalidated on April 9, 2014, due to maintenance and a calibration performed by Air Sciences. 24-hour average data were invalidated from April 29 through May 2, 2014 as a result of a tape break error.

Hourly and 24-hour average $PM_{2.5}$ data were invalidated from April 7 through April 10, 2014, as a result of an annual 72-hour zero background test, 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 PM_{10} data were invalidated on April 8, 2014, due to maintenance and a calibration performed by Air Sciences.

Hourly $PM_{2.5}$ data were invalidated on April 10, 2014, due to maintenance and a calibration performed by Air Sciences. 24-hour average $PM_{2.5}$ data were invalidated from April 21 through April 24, 2014, as a result of an annual 72-hour zero background test. Additional 24-hour average $PM_{2.5}$ data were invalidated from May 9 through May 12, 2014, as a result of the BAM remaining in maintenance mode after a site check.

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

2.2 Quality Control

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

- Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Quality Monitoring Program (EPA-454/B-13-003, May 2013)
- Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements (EPA-454/B-08-002, March 2008)
- Transfer Standards for the Calibration of Ambient Air Monitoring Analyzers for Ozone (EPA-454/B-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. Audits and/or calibrations of the ambient air quality monitors and analyzers are required every three months. At the East and West Plant, Air Sciences performed calibrations of the particulate and air quality analyzers between April 8, and April 11, 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
April 1- June 30, 2014

3.0 METEOROLOGICAL DATA SUMMARY AND DISCUSSION

3.1 Meteorological Data Summary

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

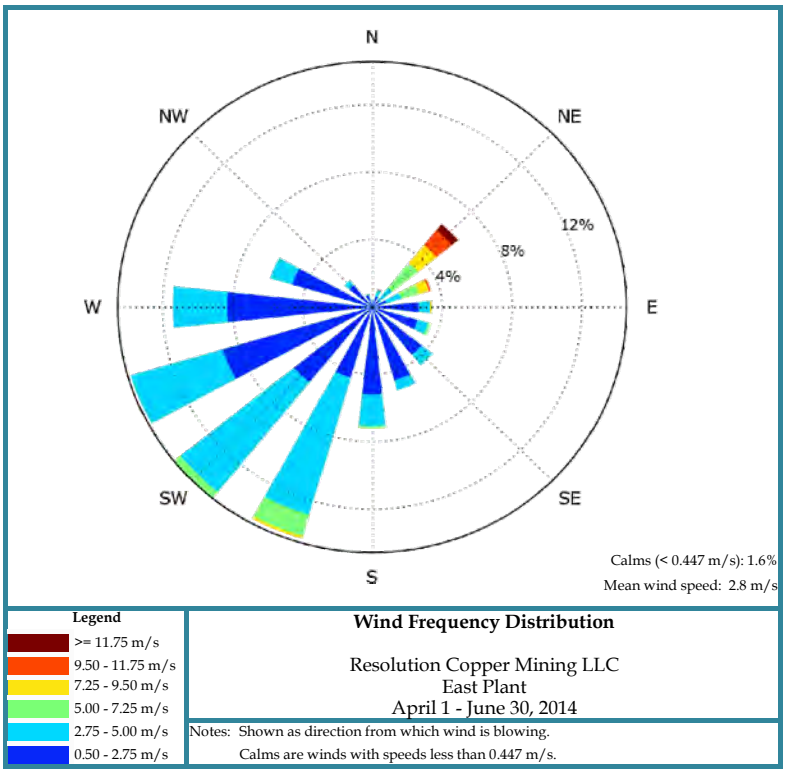
Wind Rose – Graphically depicts the percentage of winds that come from each of the 16 directions for the reported period. Wind speeds are divided into six subcategories ranging from less than 0.5 m/s (the measurement threshold of the instrument) to greater than 11.75 m/ s.

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

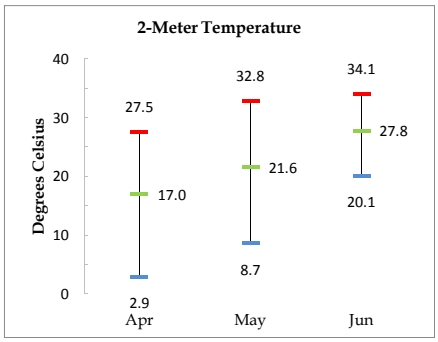
Meteorological Data: April 1 - June 30, 2014

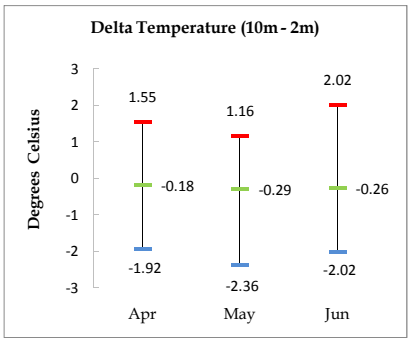


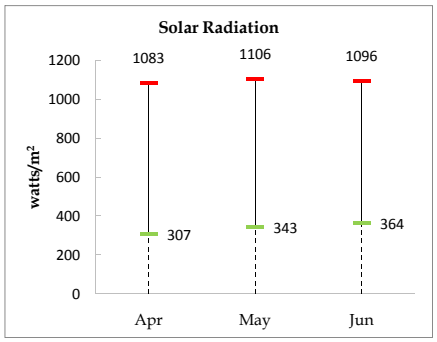
	Speed Class Intervals (m/s) (percent of occurrence)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	0.2	0.1	0.1	0.0	0.0	0.0	0.5	1.8
NNE	0.5	0.3	0.3	0.0	0.0	0.0	1.1	2.6
NE	0.3	0.5	0.6	1.7	1.9	1.3	6.3	7.1
ENE	0.4	0.4	0.9	1.0	0.7	0.0	3.5	5.0
E	1.2	1.6	0.5	0.0	0.0	0.0	3.4	2.2
ESE	1.9	0.9	0.5	0.1	0.0	0.0	3.5	1.9
SE	2.4	1.4	0.5	0.0	0.0	0.0	4.4	1.7
SSE	3.7	1.0	0.5	0.0	0.0	0.0	5.1	1.3
S	4.3	1.3	1.5	0.1	0.0	0.0	7.2	1.8
SSW	2.4	3.2	7.2	1.2	0.2	0.0	14.3	3.3
SW	1.8	5.7	6.5	0.5	0.0	0.0	14.6	2.9
WSW	2.1	8.2	4.1	0.0	0.0	0.0	14.4	2.4
W	2.1	7.5	1.8	0.0	0.0	0.0	11.4	2.3
WNW	1.4	3.9	0.7	0.0	0.0	0.0	6.0	2.1
NW	0.7	1.1	0.1	0.0	0.0	0.0	2.0	1.9
NNW	0.3	0.5	0.0	0.0	0.0	0.0	0.8	1.9
All	25.7	37.7	26.0	4.7	2.9	1.4	98.4	2.8

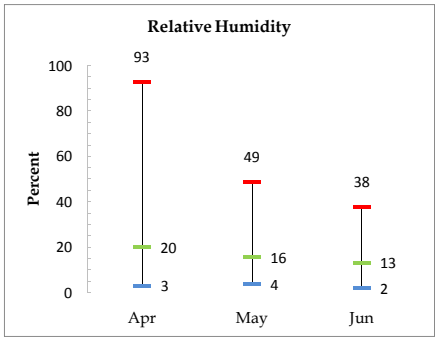
Key

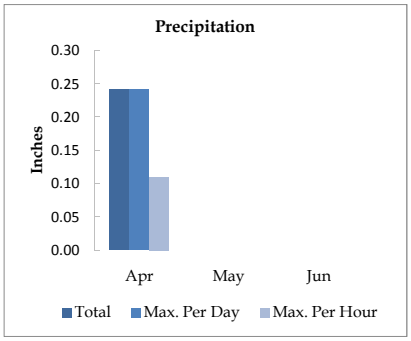
Maximum — Average — Minimum











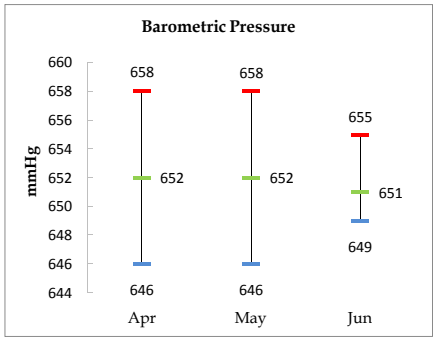
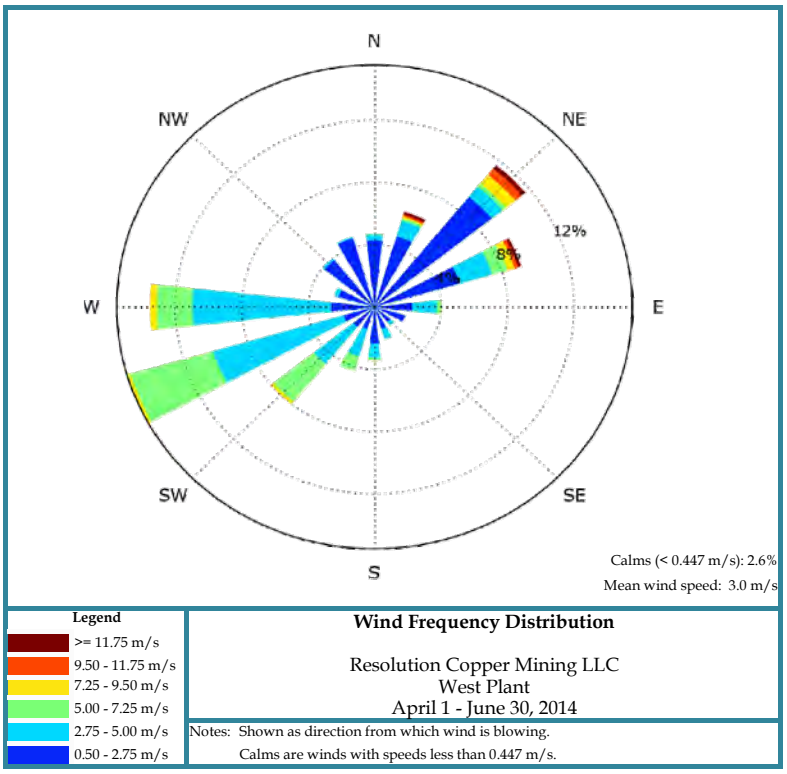


Figure 4: West Plant Meteorological Data Summary

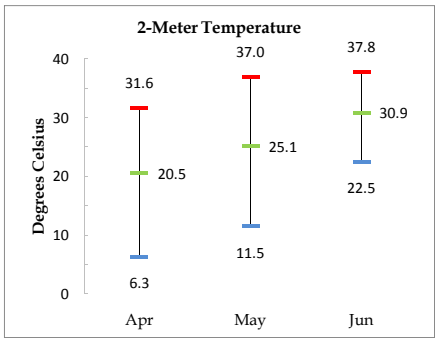
Meteorological Data: April 1 - June 30, 2014

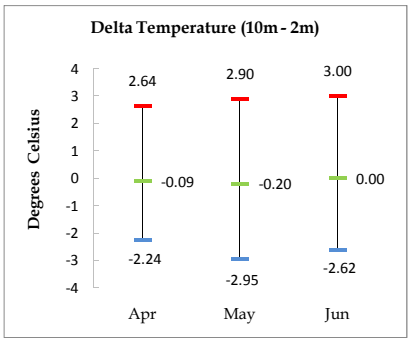


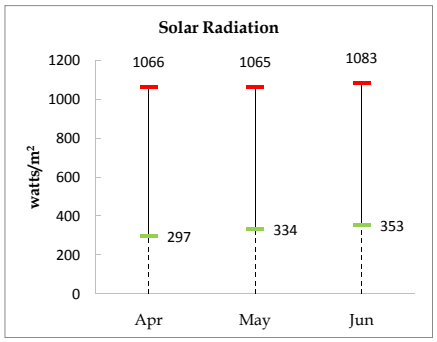
	Speed Class Intervals (m/s) (percent of occurrence)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	3.8	0.5	0.3	0.0	0.0	0.0	4.7	1.2
NNE	3.8	1.1	0.9	0.2	0.1	0.3	6.4	2.3
NE	5.5	3.7	0.6	0.3	0.8	0.7	11.7	2.8
ENE	4.0	1.4	2.0	0.9	0.6	0.3	9.2	3.2
E	1.5	1.1	1.2	0.3	0.0	0.0	4.0	2.5
ESE	1.3	0.6	0.0	0.0	0.0	0.0	1.9	1.3
SE	0.7	0.6	0.2	0.0	0.0	0.0	1.5	1.8
SSE	0.7	1.0	0.5	0.0	0.0	0.0	2.2	2.1
S	1.4	1.1	0.7	0.2	0.0	0.0	3.4	2.3
SSW	0.5	1.3	1.5	1.0	0.0	0.0	4.3	3.6
SW	0.8	1.0	2.9	3.0	0.3	0.0	8.0	4.4
WSW	0.8	1.7	7.6	5.0	0.4	0.0	15.5	4.4
W	0.8	2.4	7.7	2.1	0.5	0.0	13.5	3.9
WNW	1.1	1.2	0.2	0.0	0.0	0.0	2.5	1.7
NW	3.3	0.6	0.1	0.0	0.0	0.0	4.0	1.1
NNW	4.0	0.5	0.1	0.0	0.0	0.0	4.7	1.0
All	34.1	20.0	26.4	12.9	2.7	1.4	97.4	3.0

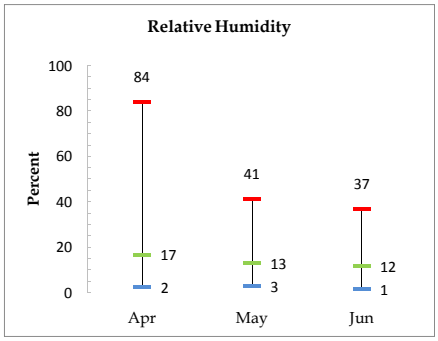
Key

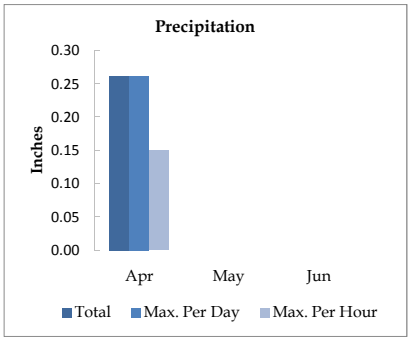
Maximum — Average — Minimum

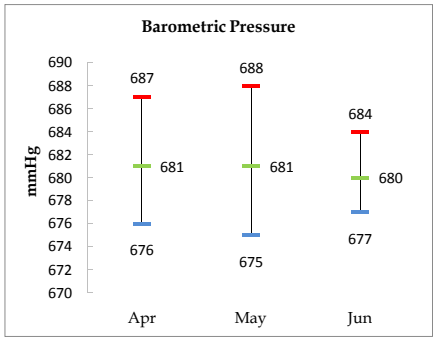












3.2 Meteorological Data Discussion

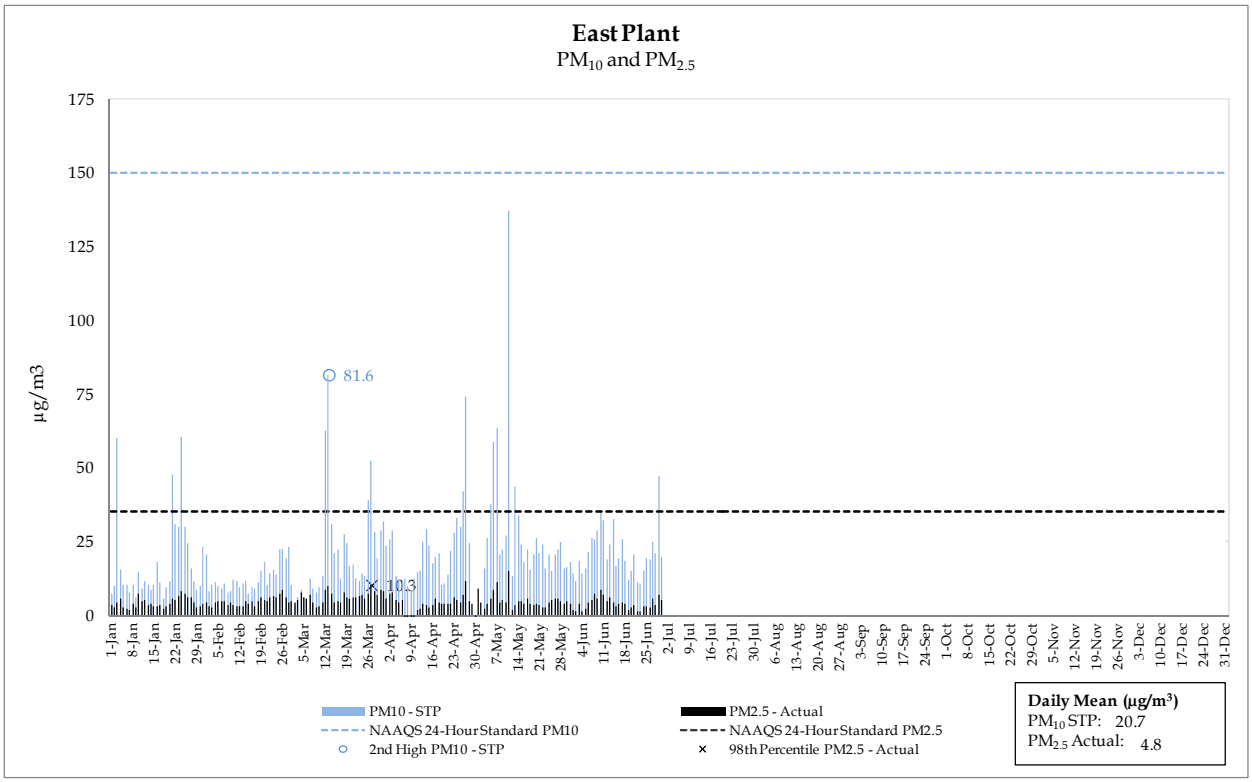
The meteorological data collected at the East and the West Plant sites for the second quarter of 2014 met all data recovery objectives.

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 year-to-date (YTD), and compares the data to the PM_{10} and $PM_{2.5}$ NAAQS. The second-high 24-hour average for PM_{10}, and the 98th percentile for $PM_{2.5}$ are labeled. The daily mean value for PM_{10} and $PM_{2.5}$ are shown in the lower-right corner.

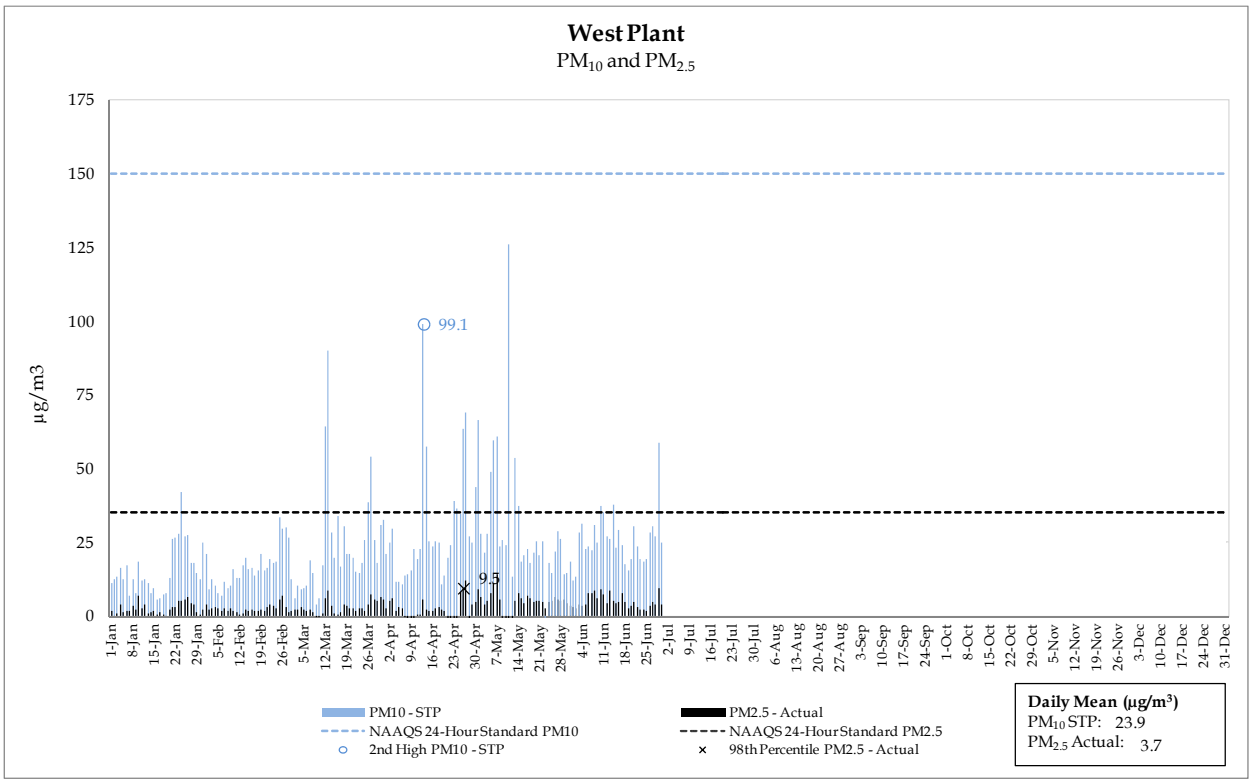
Figure 5. East Plant Particulate Data (YTD)



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 YTD, and compares the data to the PM_{10} and $PM_{2.5}$ NAAQS. The second-high 24-hour average for PM_{10}, and the 98th percentile for $PM_{2.5}$ are labeled. The daily mean value for PM_{10} and $PM_{2.5}$ are shown in the lower-right corner.

Figure 6. West Plant Particulate Data (YTD)



4.3 PM Data Discussion

4.3.1 PM_{10}

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

As shown in Figure 5 and Figure 6, the second-high PM_{10} concentrations recorded at the East and West Plants are 81.6 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 4.8 and 3.7 $\mu g/m^3$, respectively. Both the East and West Plants' arithmetic mean values are below the NAAQS of 12 $\mu g/m^3$.

Figure 5 and Figure 6 also show the 98th percentile concentrations at the East and West Plants, which were 10.3 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 YTD. 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 (YTD)

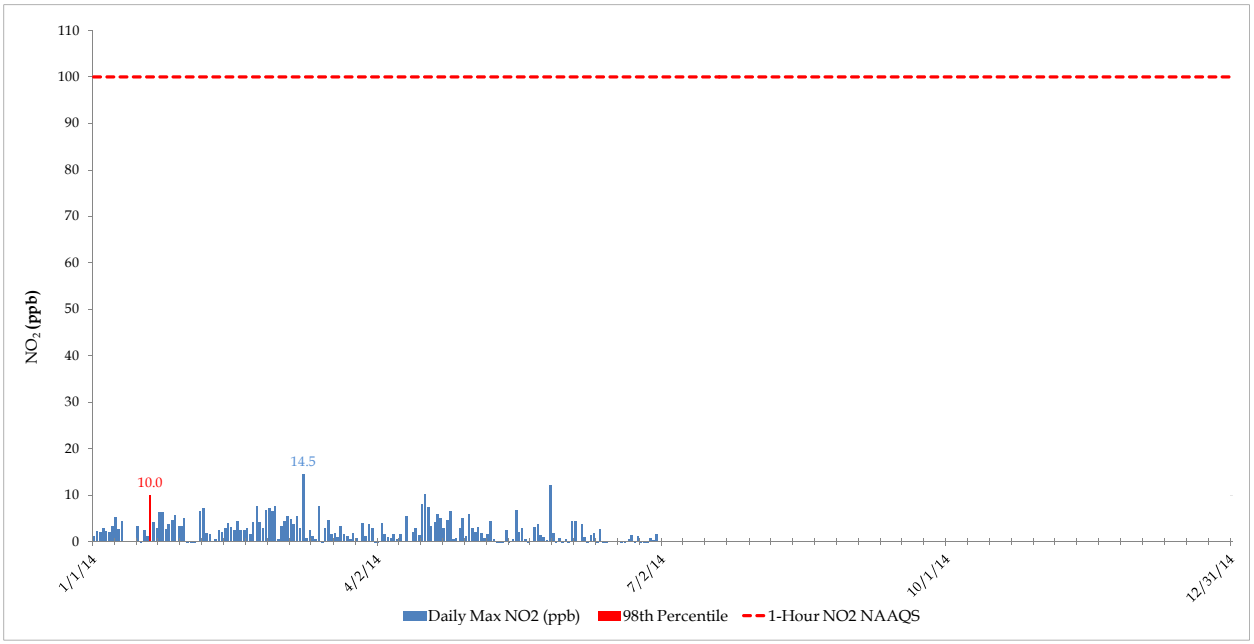
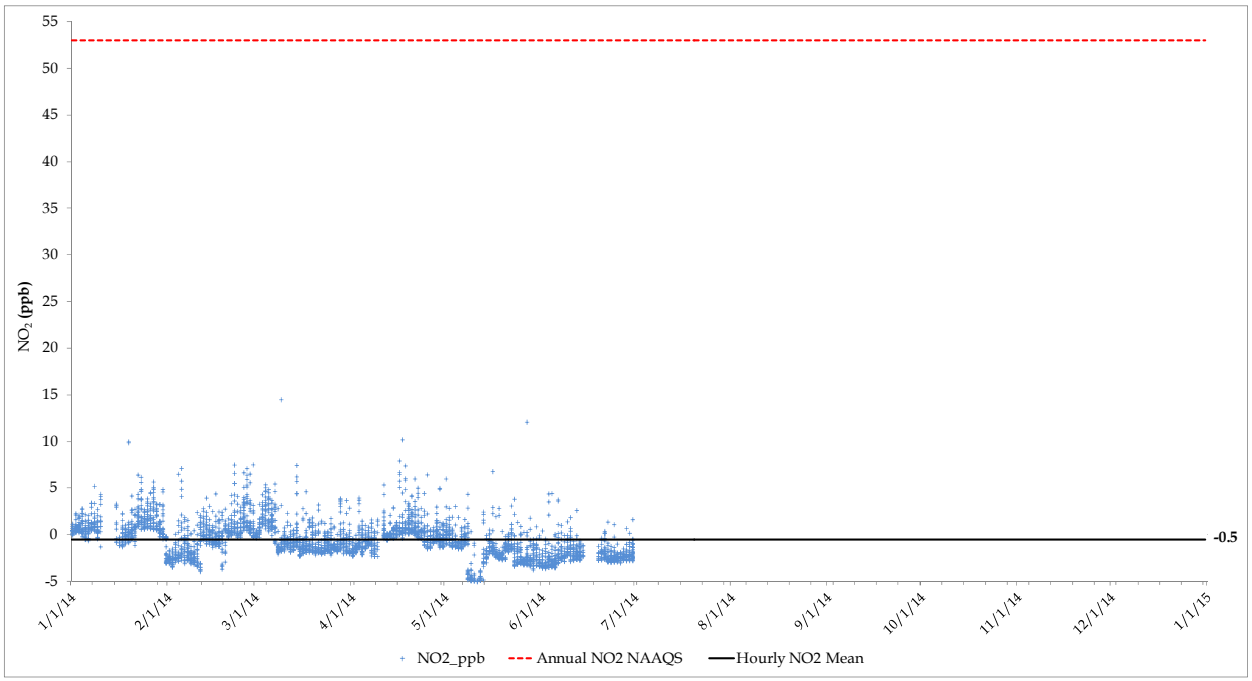


Figure 8. NO_2 Mean Hourly Concentrations (YTD)



5.2 NO_2 Data Discussion

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

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

As shown in Figure 7, the 98th percentile of the daily maximum 1-hour average NO_2 concentration for 2014, YTD is 10.0 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 -0.5 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.

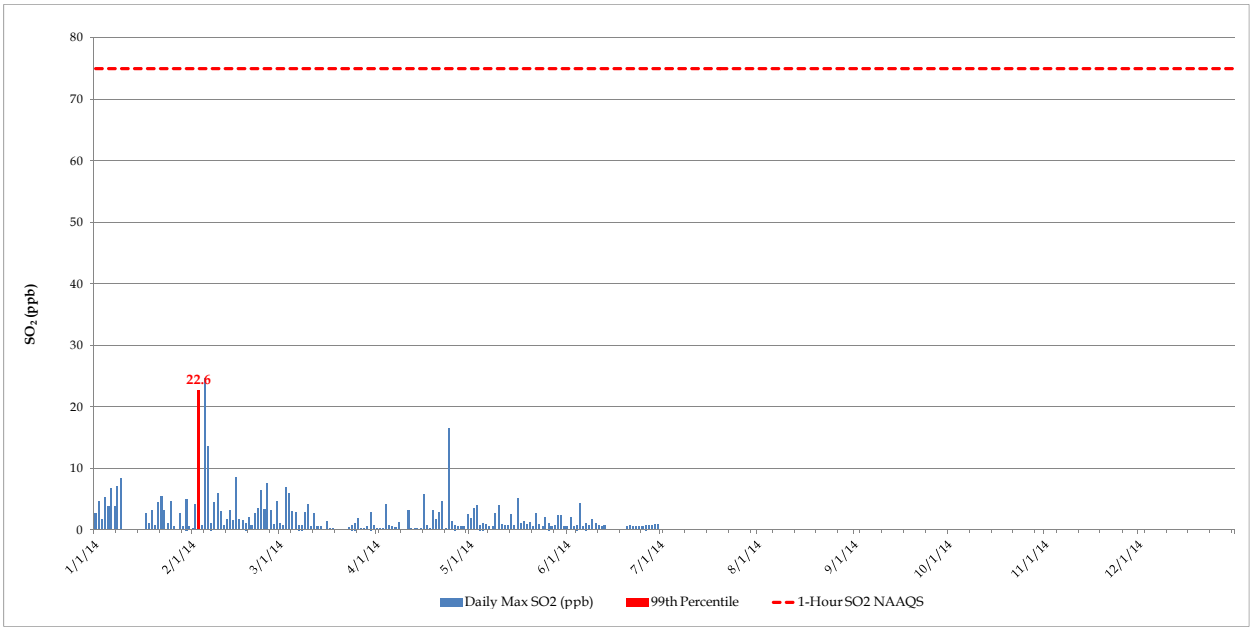
Actual comparison to the NAAQS requires three calendar years of monitoring data, which have not been obtained at this time.

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 YTD, 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 (YTD)



6.2 SO_2 Data Discussion

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

As shown in Figure 9, the 99th percentile 1-hour maximum concentration for 2014 is 22.6 ppb, which is below the annual SO_2 NAAQS of 75 ppb.

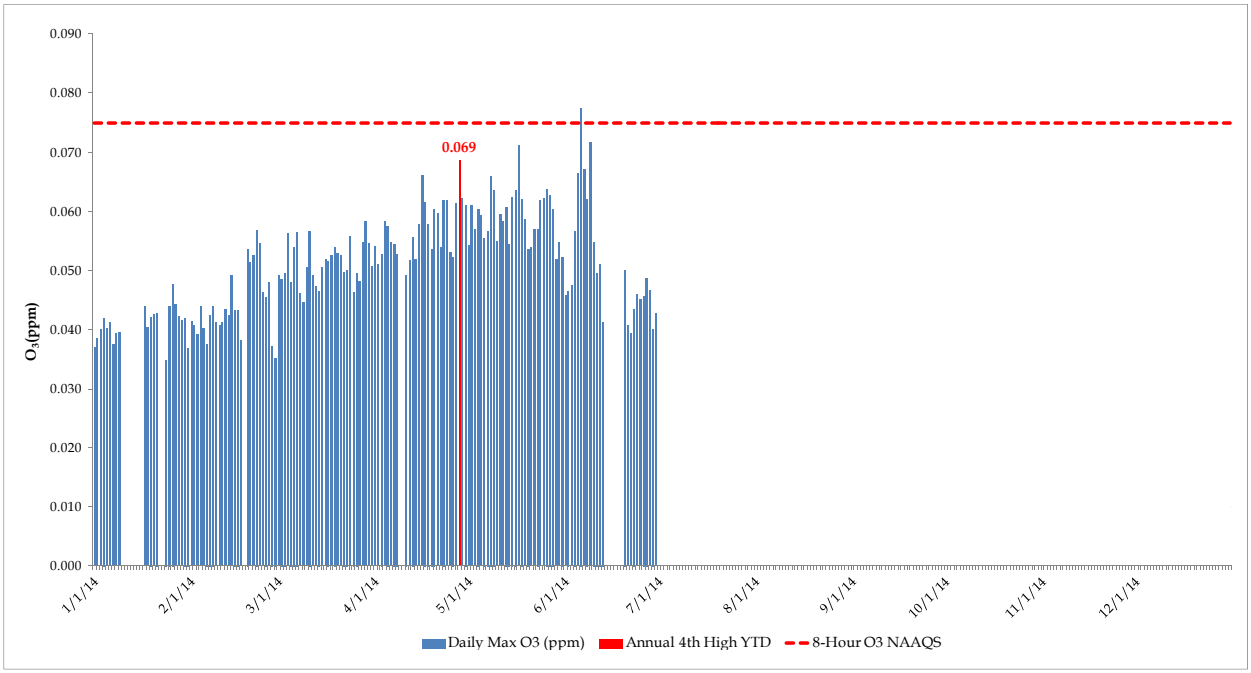
Actual comparison to the NAAQS requires three calendar years of monitoring data, which have not been obtained at this time.

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 YTD, 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 (YTD)



7.2 O_3 Data Discussion

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

Figure 10 shows that the averaged fourth-high maximum recorded at the East Plant is 0.069 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: Apr 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	1.0	3.6	4.6	3.6	4.4	3.4	3.1	2.7	2.8	4.1	4.7	3.8	2.9	3.4	4.0	3.8	3.0	2.8	2.0	1.6	1.3	1.5	1.7	1.7	3.0	4.7	1.0
2	1.3	2.3	4.0	2.2	2.3	1.5	1.1	1.4	2.3	3.4	5.2	4.6	4.3	4.9	4.4	3.9	3.8	4.0	3.1	3.0	3.2	3.5	1.4	1.8	3.0	5.2	1.1
3	1.2	0.8	0.4	0.6	0.7	0.8	0.7	0.8	1.1	2.4	3.1	3.0	2.8	3.4	3.0	2.9	3.3	2.8	2.8	2.8	1.6	0.2	0.5	0.7	1.8	3.4	0.2
4	1.3	1.4	1.5	1.7	1.7	1.6	1.7	3.3	5.1	4.5	3.8	3.2	2.8	2.5	2.9	2.7	2.1	3.1	2.5	1.4	1.2	1.0	1.4	0.6	2.3	5.1	0.6
5	1.0	1.8	1.4	2.9	2.7	1.1	0.6	0.7	1.4	2.3	2.5	3.2	3.0	3.6	4.1	3.0	2.9	3.5	2.1	2.4	2.9	2.8	2.8	3.3	2.4	4.1	0.6
6	2.8	1.7	1.2	1.0	1.0	0.8	1.3	1.1	2.3	3.1	3.0	3.2	3.3	3.4	3.4	3.4	3.0	2.9	2.7	2.1	1.5	0.8	1.3	1.3	2.2	3.4	0.8
7	0.7	0.9	1.4	1.4	1.8	2.0	1.4	3.3	6.6	6.5	4.8	4.6	3.8	3.9	4.0	3.6	2.5	2.6	3.2	2.9	3.4	1.1	0.5	1.2	2.8	6.6	0.5
8	1.3	1.6	1.4	1.8	1.5	2.4	1.8	2.6	3.3	3.4	1.9	1.6	2.6	2.2	3.0	2.7	2.5	2.7	2.2	2.7	2.5	1.3	0.7	0.9	2.1	3.4	0.7
9	0.7	0.9	1.2	1.3	1.3	1.6	1.2	1.0	1.4	1.1	2.1	2.6	2.0	2.5	3.1	2.2	2.6	2.8	1.7	2.5	1.6	1.2	1.3	0.8	1.7	3.1	0.7
10	0.5	0.5	1.0	0.7	0.6	0.9	0.8	0.9	0.9	1.8	1.7	2.1	2.1	3.3	2.7	3.0	2.5	1.8	1.6	1.0	1.0	0.9	0.5	0.9	1.4	3.3	0.5
11	0.8	0.6	1.0	0.7	0.7	0.4	0.2	0.9	1.0	3.0	3.4	3.0	2.6	2.5	2.8	2.6	2.1	1.7	0.6	0.8	2.5	3.3	1.7	2.4	1.7	3.4	0.2
12	2.4	2.8	1.5	2.2	2.6	0.8	1.4	2.9	2.8	4.4	4.2	3.4	4.2	4.8	4.0	2.8	3.0	2.7	2.4	1.8	1.5	1.3	1.9	2.5	2.7	4.8	0.8
13	1.3	2.2	2.0	2.1	1.3	0.5	0.3	0.7	2.8	3.4	4.0	4.1	3.6	3.6	4.0	4.0	4.8	4.0	3.9	2.8	2.6	2.1	1.5	2.3	2.7	4.8	0.3
14	2.4	6.6	7.0	10.0	10.0	8.5	9.0	8.1	9.7	10.5	8.2	7.4	6.6	6.5	6.0	6.7	6.6	5.6	5.0	5.3	3.7	6.5	6.5	6.7	7.0	10.5	2.4
15	6.0	3.9	2.6	4.8	7.8	6.2	6.8	7.1	7.8	7.7	6.9	4.8	3.1	2.1	2.0	1.7	2.0	1.8	1.6	1.5	0.8	0.3	0.6	0.8	3.8	7.8	0.3
16	1.0	1.2	0.4	0.8	0.6	0.8	0.9	0.7	1.3	2.7	2.3	2.8	2.9	2.6	3.3	3.2	3.2	2.5	2.1	1.5	1.1	1.9	1.7	2.0	1.8	3.3	0.4
17	2.5	1.5	1.7	1.7	1.1	0.5	0.7	0.8	1.0	2.6	2.3	2.5	2.7	2.5	2.5	2.6	2.0	2.0	1.8	2.5	0.9	0.9	0.8	2.1	1.8	2.7	0.5
18	0.9	1.1	2.4	1.0	1.9	1.3	0.9	0.7	1.1	2.7	3.6	3.9	3.2	4.8	5.6	4.1	4.9	5.1	4.8	5.4	5.5	5.0	3.6	2.3	3.2	5.6	0.7
19	1.7	1.2	1.4	1.6	1.3	1.4	1.9	1.5	1.8	2.2	2.0	3.5	2.0	2.2	2.5	1.9	1.7	2.1	3.8	2.1	1.0	1.5	1.5	1.7	1.9	3.8	1.0
20	0.5	0.8	0.8	0.7	0.9	0.6	1.1	1.5	1.2	2.0	2.8	3.0	3.0	3.2	3.5	3.2	3.1	2.5	2.4	2.5	2.1	2.1	2.1	1.5	2.0	3.5	0.5
21	1.2	0.6	0.6	0.9	1.2	0.9	1.1	1.1	2.1	1.9	2.7	2.3	3.0	3.1	2.5	3.1	2.3	2.3	2.2	2.1	2.1	0.7	0.8	0.7	1.7	3.1	0.6
22	0.5	0.5	0.5	0.8	1.3	0.9	0.7	1.2	1.2	2.6	2.6	2.9	3.7	5.0	4.3	4.2	4.6	4.9	4.8	4.8	4.3	4.0	5.3	4.9	2.9	5.3	0.5
23	4.6	4.4	4.0	3.2	2.8	2.8	3.1	3.3	3.4	3.2	3.4	3.2	3.6	4.0	4.0	3.1	3.1	2.3	2.2	1.6	1.6	1.2	0.8	1.3	2.9	4.6	0.8
24	2.1	0.9	0.4	0.4	1.5	1.0	2.0	3.0	2.8	2.9	2.5	3.0	3.0	2.7	2.7	3.6	2.4	3.4	2.9	1.4	0.8	0.6	0.8	0.7	2.0	3.6	0.4
25	0.7	0.8	0.4	0.5	0.5	0.4	1.0	1.4	2.8	3.4	4.2	4.0	3.5	3.8	5.2	3.9	5.4	4.5	4.8	4.8	4.8	6.0	4.4	3.5	3.1	6.0	0.4
26	3.9	3.7	3.3	3.6	1.7	3.0	2.9	5.1	4.0	6.4	5.7	3.1	3.7	3.6	4.6	4.3	4.0	3.6	3.1	2.9	3.5	1.8	1.3	0.7	3.5	6.4	0.7
27	1.0	0.9	1.2	0.9	1.6	1.8	0.9	1.3	1.9	2.4	2.6	2.4	3.1	3.5	2.9	2.7	2.3	2.5	2.3	1.7	1.1	0.9	0.7	0.6	1.8	3.5	0.6
28	1.0	1.9	2.6	1.9	1.3	0.7	0.7	0.6	2.2	2.8	2.8	3.1	3.1	3.1	3.4	3.3	2.6	2.9	2.1	1.6	1.0	0.8	1.5	6.2	2.2	6.2	0.6
29	8.5	10.0	10.9	11.6	12.6	12.6	12.1	12.8	13.9	12.9	7.5	7.3	7.6	7.9	6.4	6.2	4.8	5.3	5.2	5.7	5.3	6.5	7.4	6.1	8.6	13.9	4.8
30	6.5	5.9	5.7	8.8	11.4	11.0	10.1	10.6	9.8	8.9	8.2	7.9	6.9	5.7	4.9	3.2	2.9	3.2	3.8	4.8	9.7	13.0	12.6	11.7	7.8	13.0	2.9
Avg	2.1	2.2	2.3	2.5	2.7	2.4	2.4	2.8	3.4	4.0	3.8	3.6	3.5	3.7	3.7	3.4	3.2	3.1	2.8	2.7	2.5	2.5	2.3	2.5	2.9	--	--
Max	8.5	10.0	10.9	11.6	12.6	12.6	12.1	12.8	13.9	12.9	8.2	7.9	7.6	7.9	6.4	6.7	6.6	5.6	5.2	5.7	9.7	13.0	12.6	11.7	--	13.9	--
Min	0.5	0.5	0.4	0.4	0.5	0.4	0.2	0.6	0.9	1.1	1.7	1.6	2.0	2.1	2.0	1.7	1.7	1.7	0.6	0.8	0.8	0.2	0.5	0.6	--	--	0.2

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: May 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	11.0	10.6	7.6	6.7	6.5	8.6	9.6	8.7	10.2	8.6	6.5	6.6	4.4	2.8	2.7	3.1	3.2	2.9	2.6	3.3	2.9	1.5	2.3	3.9	5.7	11.0	1.5
2	3.5	1.9	3.8	3.8	4.4	2.6	2.6	3.4	4.1	3.4	2.2	2.9	2.5	2.3	2.0	2.3	2.7	2.8	3.1	2.5	2.3	1.9	1.5	1.0	2.7	4.4	1.0
3	0.8	1.1	0.7	0.5	0.8	0.6	0.9	1.1	2.4	2.0	1.6	2.0	2.3	3.0	3.1	3.4	2.5	2.5	2.1	1.3	0.6	1.2	0.8	0.7	1.6	3.4	0.5
4	0.9	1.6	1.9	1.8	1.8	0.5	0.8	1.2	2.4	2.6	3.7	3.6	3.6	3.5	3.9	4.4	3.7	2.7	2.0	1.5	1.3	1.3	1.3	1.4	2.2	4.4	0.5
5	0.7	0.9	1.1	1.1	2.6	2.0	3.0	2.0	3.7	4.8	4.6	5.0	4.7	4.4	5.1	4.7	5.1	5.0	4.5	3.5	4.8	4.2	4.7	5.1	3.6	5.1	0.7
6	5.3	4.9	4.0	3.5	3.1	4.1	3.6	4.2	3.9	3.7	4.7	4.6	5.0	4.6	5.2	5.7	4.3	2.9	2.4	2.5	2.2	2.9	1.8	2.4	3.8	5.7	1.8
7	1.1	0.9	1.3	2.1	2.8	1.0	0.8	1.8	3.4	4.2	3.4	3.5	3.8	3.5	3.5	3.2	3.4	2.6	2.2	1.3	0.8	0.9	0.5	0.6	2.2	4.2	0.5
8	0.4	0.4	1.1	1.3	1.6	0.5	0.6	1.0	1.9	2.7	2.9	3.3	3.3	3.1	3.2	3.1	3.1	3.0	2.3	1.7	2.0	1.1	0.6	0.2	1.8	3.3	0.2
9	0.3	0.4	0.4	0.9	0.8	1.2	0.6	1.0	1.8	2.2	2.1	2.5	2.7	2.6	2.5	2.5	2.8	2.8	2.2	1.4	0.9	0.7	0.9	0.7	1.5	2.8	0.3
10	0.7	0.9	0.9	0.5	0.5	0.8	0.7	1.5	2.6	3.0	4.0	3.7	4.4	3.7	3.9	5.6	4.2	4.6	6.0	6.2	7.3	7.6	6.4	6.7	3.6	7.6	0.5
11	7.2	7.0	7.0	5.5	4.4	2.8	3.0	3.1	3.5	3.7	3.7	4.6	4.2	4.6	4.3	4.1	4.1	3.6	2.7	2.1	1.7	1.2	1.3	1.2	3.8	7.2	1.2
12	2.0	2.9	2.5	5.8	6.4	4.5	3.6	5.5	6.9	6.1	4.1	2.9	2.2	3.3	3.1	2.6	2.2	3.9	3.4	3.5	2.8	2.6	6.3	8.4	4.1	8.4	2.0
13	7.4	9.4	9.2	9.0	8.9	10.1	11.8	14.0	11.9	10.6	10.5	8.6	7.2	7.2	6.9	7.6	7.0	7.3	6.5	7.9	9.9	10.3	11.1	11.5	9.2	14.0	6.5
14	9.8	8.4	11.0	8.3	6.8	7.2	7.8	8.1	7.6	9.1	9.1	8.3	7.4	6.7	5.2	4.9	3.9	2.9	2.8	2.9	2.7	4.1	5.6	3.5	6.4	11.0	2.7
15	4.6	6.1	6.2	5.5	4.8	5.3	5.4	6.7	7.7	7.4	6.5	6.8	5.8	4.5	3.7	2.7	2.1	1.8	1.8	2.4	3.3	1.9	1.0	1.1	4.4	7.7	1.0
16	1.2	1.4	1.9	1.4	0.7	1.1	0.8	0.6	1.6	2.3	2.3	2.7	3.3	3.1	3.4	3.5	2.9	2.4	2.6	2.7	2.9	2.4	1.7	1.8	2.1	3.5	0.6
17	1.8	1.2	1.2	1.4	0.4	1.0	0.8	1.1	2.2	2.1	2.1	2.8	3.1	3.3	3.1	2.9	2.4	2.7	2.2	1.5	1.1	0.7	1.6	1.6	1.8	3.3	0.4
18	1.0	1.3	1.8	0.7	0.7	0.2	0.3	0.9	2.5	2.8	3.0	3.0	3.3	3.7	3.0	2.7	2.6	2.4	2.1	1.3	0.7	0.8	2.9	1.4	1.9	3.7	0.2
19	2.3	3.6	3.1	1.5	0.8	1.3	1.2	2.5	2.0	2.6	4.0	4.2	4.7	4.1	4.4	5.0	5.4	4.8	4.5	4.6	4.2	3.1	1.7	1.5	3.2	5.4	0.8
20	3.0	4.4	2.8	2.4	2.3	1.7	2.4	3.5	3.2	4.4	4.4	4.5	4.7	4.3	4.1	5.4	5.4	6.0	5.5	6.1	5.3	4.3	3.9	4.6	4.1	6.1	1.7
21	3.9	4.6	4.0	3.6	3.6	2.9	1.6	2.4	3.3	4.0	5.1	4.7	3.8	3.8	4.3	4.1	3.8	3.5	4.0	4.2	4.5	4.3	2.0	1.4	3.6	5.1	1.4
22	1.0	0.6	0.4	0.8	0.8	0.8	0.7	1.0	2.7	3.3	4.9	3.4	3.5	3.8	4.3	3.3	2.9	4.0	2.9	2.8	3.5	2.5	1.8	3.1	2.5	4.9	0.4
23	1.9	3.2	0.8	0.9	0.8	0.3	0.7	1.3	2.1	3.5	2.9	4.1	4.2	4.2	3.6	3.1	3.0	3.2	2.7	2.1	2.2	2.6	2.8	3.1	2.5	4.2	0.3
24	2.6	3.5	1.7	1.6	1.1	2.2	0.9	0.5	2.8	3.5	3.2	3.3	2.7	3.4	3.1	3.1	2.8	2.5	1.7	1.0	1.3	1.2	0.6	0.7	2.1	3.5	0.5
25	0.4	1.1	0.8	1.1	2.7	1.7	1.5	1.5	1.3	2.2	2.2	2.5	3.9	3.2	2.9	2.6	2.9	2.6	2.5	1.6	1.0	0.5	0.8	0.9	1.9	3.9	0.4
26	1.1	2.0	1.0	1.0	1.1	0.9	0.6	2.0	2.5	2.4	2.7	3.0	3.3	3.4	3.1	3.3	3.5	2.7	2.4	1.9	1.8	1.2	1.5	1.0	2.1	3.5	0.6
27	1.6	1.2	1.6	1.1	1.3	0.5	0.5	1.2	1.7	3.1	3.7	2.7	2.9	3.2	2.8	2.6	3.1	2.7	1.8	2.2	1.7	1.7	1.6	3.0	2.1	3.7	0.5
28	2.9	3.1	2.2	0.8	0.5	0.8	0.7	1.1	1.8	2.2	3.0	2.9	2.6	3.2	2.9	3.0	3.2	2.6	1.4	1.1	1.3	1.1	1.4	1.3	2.0	3.2	0.5
29	1.2	3.6	1.4	3.5	1.8	1.4	1.7	1.7	1.9	1.5	1.8	2.5	2.8	2.2	1.9	4.0	3.7	3.4	4.2	2.8	2.0	2.1	2.3	1.6	2.4	4.2	1.2
30	1.3	1.1	1.2	1.4	1.6	1.6	1.9	3.3	2.7	1.8	2.2	2.4	2.9	2.5	2.2	2.8	3.2	3.1	2.5	2.6	2.2	1.3	0.7	1.2	2.1	3.3	0.7
31	1.2	0.8	0.8	0.8	1.0	0.9	0.9	0.8	1.4	2.6	2.9	2.6	2.5	3.9	3.4	3.2	2.4	2.5	2.1	1.8	2.6	2.0	1.3	1.0	1.9	3.9	0.8
Avg	2.7	3.0	2.8	2.6	2.5	2.3	2.3	2.9	3.5	3.8	3.9	3.9	3.8	3.7	3.6	3.7	3.5	3.3	3.0	2.7	2.7	2.4	2.4	2.5	3.1	--	--
Max	11.0	10.6	11.0	9.0	8.9	10.1	11.8	14.0	11.9	10.6	10.5	8.6	7.4	7.2	6.9	7.6	7.0	7.3	6.5	7.9	9.9	10.3	11.1	11.5	--	14.0	--
Min	0.3	0.4	0.4	0.5	0.4	0.2	0.3	0.5	1.3	1.5	1.6	2.0	2.2	2.2	1.9	2.3	2.1	1.8	1.4	1.0	0.6	0.5	0.5	0.2	--	--	0.2

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

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.5	1.4	1.8	1.1	0.7	0.8	0.6	0.8	1.8	2.0	2.5	3.1	3.2	3.3	3.3	3.0	3.0	2.7	2.2	1.7	1.7	1.0	0.8	0.7	1.9	3.3	0.6
2	1.0	0.5	0.7	0.9	0.5	1.0	1.1	1.7	2.3	1.8	2.3	2.2	2.3	2.6	2.4	2.8	2.6	2.1	1.1	1.4	1.7	0.8	1.5	2.0	1.6	2.8	0.5
3	0.8	1.2	0.5	0.5	0.3	0.2	0.4	1.1	1.6	2.1	2.5	2.6	2.5	2.7	2.5	2.6	2.8	2.5	2.2	1.8	1.3	0.7	1.0	0.3	1.5	2.8	0.2
4	0.4	0.4	0.3	0.3	0.7	0.7	0.7	1.2	2.1	2.2	2.4	3.4	3.1	2.9	2.9	3.6	2.9	3.0	2.5	2.1	1.3	0.7	0.6	0.5	1.7	3.6	0.3
5	0.7	0.6	1.0	1.2	0.9	0.9	0.6	1.1	1.8	2.2	2.6	2.6	2.8	3.1	2.9	2.4	2.1	2.6	1.8	1.6	0.7	0.6	0.8	0.7	1.6	3.1	0.6
6	0.9	0.9	0.6	0.8	0.3	1.0	0.9	0.9	1.9	2.7	2.3	2.1	3.5	3.4	3.0	3.1	2.7	2.7	2.3	1.5	0.8	0.7	0.9	1.0	1.7	3.5	0.3
7	0.6	0.6	0.4	1.3	2.4	1.2	0.5	0.8	1.3	2.6	3.3	4.0	3.2	3.3	3.1	3.3	2.8	2.6	2.3	2.0	1.5	1.5	2.4	2.8	2.1	4.0	0.4
8	2.6	2.4	2.4	2.2	1.5	1.0	0.6	0.7	2.3	2.4	2.3	2.7	3.2	3.0	3.2	3.4	2.9	2.8	2.7	2.9	2.4	2.4	3.4	3.5	2.4	3.5	0.6
9	2.1	1.7	1.0	1.1	2.6	3.8	8.2	6.9	5.7	4.4	3.4	2.2	2.9	3.2	3.1	3.2	3.0	2.9	2.9	2.5	1.8	1.5	1.0	0.8	3.0	8.2	0.8
10	1.3	1.5	3.1	1.4	1.5	1.9	0.8	1.8	2.9	2.4	2.4	2.7	2.5	2.5	2.8	3.6	3.1	3.5	3.5	3.0	3.6	2.1	1.2	0.8	2.3	3.6	0.8
11	1.9	3.6	3.5	2.6	2.1	1.8	1.9	2.1	1.8	2.8	3.0	2.9	3.8	3.3	4.4	4.3	3.4	3.4	2.9	2.0	2.0	0.9	0.8	1.0	2.6	4.4	0.8
12	0.8	1.2	0.9	0.5	0.5	0.7	0.6	1.5	1.7	2.1	3.2	2.5	3.0	3.2	2.6	2.5	2.7	2.3	2.2	1.6	1.4	0.9	1.5	1.5	1.7	3.2	0.5
13	3.6	3.0	3.1	2.7	2.7	2.5	2.5	2.7	3.3	3.6	2.7	3.1	3.6	3.2	3.4	3.8	3.8	3.2	3.3	3.0	2.7	2.6	2.5	1.7	3.0	3.8	1.7
14	1.5	1.6	3.5	3.0	1.7	1.7	2.6	3.8	3.7	5.4	4.3	4.0	3.6	3.4	3.7	3.3	3.2	2.7	3.0	2.2	2.6	2.1	1.4	1.4	2.9	5.4	1.4
15	1.0	1.4	2.2	2.0	0.6	0.4	0.7	2.1	2.8	2.6	3.1	3.8	3.8	4.5	4.8	5.0	3.1	2.6	2.3	1.8	1.3	1.2	1.6	3.1	2.4	5.0	0.4
16	3.8	3.7	2.1	1.9	1.3	1.3	2.6	3.7	3.3	3.1	3.5	2.5	3.5	3.7	3.7	4.6	3.5	3.1	2.9	2.3	1.9	1.9	2.1	1.1	2.8	4.6	1.1
17	2.9	3.6	3.1	3.8	2.9	3.1	3.3	1.7	3.2	3.3	4.4	3.5	4.2	4.6	3.8	4.2	3.8	4.1	4.5	5.9	7.3	6.7	5.6	5.9	4.1	7.3	1.7
18	5.5	3.6	3.8	2.9	2.7	2.6	2.9	3.5	2.7	2.8	3.4	3.9	3.2	3.8	2.6	3.8	3.1	2.9	2.7	1.9	2.0	1.2	0.7	0.8	2.9	5.5	0.7
19	0.7	0.7	0.6	0.6	0.7	0.7	0.6	1.3	3.1	2.6	2.3	2.5	3.6	2.6	3.2	2.4	2.8	2.9	2.8	2.5	2.2	0.6	0.9	1.7	1.9	3.6	0.6
20	1.2	1.0	0.8	1.4	1.8	1.6	1.3	1.1	2.3	3.4	3.7	2.8	2.9	2.8	3.1	3.3	3.6	2.7	2.6	2.7	3.3	2.7	2.3	3.6	2.4	3.7	0.8
21	3.9	1.7	2.4	1.1	1.1	1.0	0.8	0.9	3.2	3.7	3.8	3.2	3.3	3.3	3.7	3.2	3.1	3.1	2.7	2.0	3.1	2.5	2.4	2.0	2.5	3.9	0.8
22	1.1	1.2	1.8	1.4	0.7	0.3	0.6	1.8	2.5	2.4	2.9	2.9	3.0	3.1	3.3	3.4	2.9	3.1	2.9	2.0	0.9	1.0	1.6	1.4	2.0	3.4	0.3
23	0.6	0.5	1.2	1.8	1.1	1.7	1.6	2.6	2.2	3.2	4.0	2.8	3.3	4.2	3.3	2.9	2.3	2.6	2.3	1.7	1.1	0.7	0.6	1.0	2.1	4.2	0.5
24	2.0	1.1	0.9	0.5	0.7	0.7	1.5	2.8	3.4	2.7	3.5	3.0	2.3	2.6	3.1	3.0	3.5	2.5	2.2	1.5	0.6	0.9	0.7	0.9	1.9	3.5	0.5
25	0.7	1.6	0.8	0.8	1.4	2.1	1.8	2.1	2.9	2.9	3.1	2.8	3.0	3.1	3.7	3.1	2.8	3.0	2.6	2.2	1.3	2.3	1.7	1.3	2.2	3.7	0.7
26	0.9	2.0	2.2	2.4	2.9	1.9	3.6	2.8	2.6	3.2	3.6	3.4	3.2	4.5	4.3	4.4	4.4	4.0	3.3	2.3	3.1	2.7	2.3	2.9	3.0	4.5	0.9
27	2.9	2.8	2.8	1.9	2.5	2.0	1.8	2.1	2.5	2.7	2.4	2.5	2.9	4.0	3.7	3.2	2.5	3.4	2.6	2.4	2.0	2.4	3.0	2.3	2.6	4.0	1.8
28	2.0	1.1	0.8	0.8	1.1	0.6	0.7	1.1	3.1	2.4	2.4	2.8	3.1	3.0	3.2	3.3	3.1	2.7	2.7	1.8	0.9	1.0	0.4	0.8	1.9	3.3	0.4
29	1.5	1.8	1.3	1.4	1.0	0.3	0.6	1.2	2.3	2.2	2.4	2.4	2.7	2.8	3.2	3.2	3.2	3.0	2.4	1.9	1.6	1.2	1.6	2.1	2.0	3.2	0.3
30	2.3	2.3	1.4	0.9	0.5	0.6	0.6	1.4	2.3	1.9	2.4	2.6	2.8	3.1	3.4	3.3	3.2	2.9	3.0	2.2	1.9	2.0	3.2	2.2	2.2	3.4	0.5
Avg	1.8	1.7	1.7	1.5	1.4	1.3	1.6	2.0	2.6	2.8	3.0	2.9	3.1	3.3	3.3	3.4	3.1	2.9	2.6	2.2	2.0	1.7	1.7	1.7	2.3	--	--
Max	5.5	3.7	3.8	3.8	2.9	3.8	8.2	6.9	5.7	5.4	4.4	4.0	4.2	4.6	4.8	5.0	4.4	4.1	4.5	5.9	7.3	6.7	5.6	5.9	--	8.2	--
Min	0.4	0.4	0.3	0.3	0.3	0.2	0.4	0.7	1.3	1.8	2.3	2.1	2.3	2.5	2.4	2.4	2.1	2.1	1.1	1.4	0.6	0.6	0.4	0.3	--	--	0.2

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Apr 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	231	215	201	211	220	213	219	223	224	214	226	198	215	199	213	209	198	141	158	220	238	248	254	240	215	254	141
2	232	213	219	224	258	240	246	248	221	214	205	208	201	206	188	176	187	191	112	97	150	297	287	213	213	297	97
3	360	252	292	154	213	186	151	102	17	252	245	247	269	241	248	251	263	260	261	267	259	181	154	152	235	360	17
4	141	131	164	167	161	150	132	76	52	94	132	146	121	243	248	222	225	214	242	269	263	269	255	110	176	269	52
5	224	247	262	236	235	206	186	132	92	208	244	235	261	234	243	293	279	275	274	289	309	305	305	317	254	317	92
6	298	301	221	211	289	140	174	128	94	257	261	258	245	277	248	212	235	236	273	265	275	283	273	231	247	301	94
7	184	173	100	130	100	95	164	104	57	59	41	59	63	60	14	37	284	251	264	265	266	178	123	171	107	284	14
8	166	134	140	145	144	144	129	91	80	54	40	323	245	204	219	218	256	296	260	262	265	293	176	180	189	323	40
9	167	181	164	153	132	105	151	150	93	138	257	238	242	261	236	319	222	238	259	271	278	273	277	249	216	319	93
10	154	159	179	189	147	169	165	148	124	130	210	257	291	242	201	241	303	186	284	33	203	184	176	157	188	303	33
11	202	159	179	178	158	129	151	168	103	129	123	152	235	214	219	235	312	339	107	173	214	217	239	225	182	339	103
12	213	215	248	230	229	239	200	232	211	201	200	221	207	219	218	213	205	231	164	218	271	184	229	231	218	271	164
13	208	247	244	255	245	138	79	93	200	191	225	231	201	213	200	205	193	143	173	289	86	77	93	11	193	289	11
14	310	53	42	39	44	46	48	54	56	45	58	57	63	60	45	42	35	36	36	37	55	42	45	50	45	310	35
15	52	71	103	72	48	54	52	51	48	48	45	81	84	84	134	136	251	283	237	258	255	124	165	163	85	283	45
16	203	284	209	178	187	141	166	135	106	260	252	272	278	217	216	245	249	214	211	196	311	275	265	266	226	311	106
17	239	229	249	248	238	151	145	114	142	256	256	254	240	278	275	264	281	279	249	271	168	215	164	243	234	281	114
18	155	187	283	243	286	252	201	182	192	197	221	209	193	142	182	127	103	112	109	109	114	115	121	94	167	286	94
19	97	95	118	96	127	114	93	91	78	95	214	204	254	311	256	217	256	29	38	60	132	86	121	151	114	311	29
20	98	163	155	153	151	150	153	123	91	230	255	246	251	238	266	265	241	258	264	264	271	285	278	246	223	285	91
21	346	112	188	184	173	136	147	121	85	286	264	302	268	252	245	257	235	227	263	254	263	228	206	200	225	346	85
22	193	105	197	205	236	156	140	114	154	278	268	258	226	215	211	196	199	213	191	194	198	196	210	208	200	278	105
23	218	216	223	226	229	223	218	200	209	206	209	213	227	222	237	271	196	226	207	213	256	278	177	240	222	278	177
24	271	166	168	145	183	132	116	87	118	129	146	166	262	289	259	243	277	236	190	112	103	75	183	137	167	289	75
25	186	176	118	106	166	109	181	98	130	200	209	199	204	222	204	197	207	197	209	204	216	214	213	199	186	222	98
26	198	199	195	205	223	222	207	189	199	211	183	178	279	269	135	140	94	97	169	250	285	307	294	299	210	307	94
27	268	267	236	252	245	248	90	110	260	246	259	283	255	233	225	282	296	300	290	273	335	68	132	174	257	335	68
28	292	269	264	253	264	195	140	112	268	241	243	245	255	257	249	251	238	288	257	262	316	66	22	51	259	316	22
29	44	41	36	39	42	46	43	44	43	52	53	55	44	47	35	45	45	38	34	37	43	47	46	47	44	55	34
30	53	58	59	44	43	44	48	48	55	56	74	69	68	51	66	65	56	21	9	19	36	36	37	39	48	74	9
Avg	206	185	193	185	196	154	148	120	113	194	222	225	238	235	225	229	242	242	231	252	256	236	204	197	205	--	--
Max	360	301	292	255	289	252	246	248	268	286	268	323	291	311	275	319	312	339	290	289	335	307	305	317	--	360	--
Min	44	41	36	39	42	44	43	44	17	45	40	55	44	47	14	37	35	21	9	19	36	36	22	11	--	--	9

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: May 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	40	48	62	67	67	44	42	53	57	64	69	69	64	124	315	47	8	12	340	24	32	87	73	60	49	340	8
2	54	112	85	72	58	93	105	105	103	115	110	40	77	35	46	9	248	281	274	252	276	273	268	82	68	281	9
3	159	192	190	167	195	204	150	123	118	127	252	277	241	259	293	242	248	248	271	296	182	175	170	152	205	296	118
4	169	265	256	253	247	146	139	97	105	196	220	207	191	203	226	203	236	133	22	154	317	312	285	8	211	317	8
5	52	280	273	232	224	215	184	125	211	201	215	217	226	179	211	213	207	199	206	208	213	221	218	219	212	280	52
6	222	219	215	216	205	206	198	195	200	200	199	210	208	211	209	207	175	103	269	245	220	232	252	239	213	269	103
7	198	217	234	245	255	295	157	201	196	199	243	218	212	250	234	219	156	108	113	138	234	78	171	198	204	295	78
8	163	170	267	271	260	169	152	97	258	250	235	256	251	229	235	241	256	257	256	259	270	211	175	178	229	271	97
9	124	151	135	200	227	252	158	98	270	256	249	273	278	257	226	222	213	224	267	103	109	182	184	176	207	278	98
10	176	172	182	168	179	159	125	80	131	210	192	241	222	222	198	210	214	184	207	209	213	212	215	214	192	241	80
11	213	215	213	217	197	167	174	203	195	199	190	189	180	89	206	213	255	233	231	198	95	312	274	225	206	312	89
12	99	45	89	42	39	53	64	68	59	72	59	40	342	332	265	258	255	212	238	268	267	15	43	45	30	342	15
13	51	44	45	44	50	43	33	42	46	50	45	47	50	36	40	36	38	35	35	40	37	38	39	40	42	51	33
14	44	56	54	60	64	71	77	87	68	60	65	67	77	69	82	66	84	56	28	41	99	52	49	64	64	99	28
15	58	55	57	57	92	71	59	58	53	51	45	54	43	45	29	63	81	246	245	256	285	297	193	161	54	297	29
16	173	180	155	133	141	158	155	104	225	272	255	260	246	271	269	263	214	239	244	275	265	278	280	275	230	280	104
17	267	261	241	248	182	250	177	105	238	238	259	239	230	236	241	193	131	266	292	187	273	171	224	241	230	292	105
18	246	233	228	147	60	54	129	119	168	205	206	201	231	223	216	208	210	197	140	30	16	74	207	262	190	262	16
19	219	210	219	213	109	203	170	214	221	224	228	220	207	217	216	207	212	198	195	212	189	204	171	205	205	228	109
20	224	223	230	236	207	159	179	192	194	206	202	221	218	215	220	211	196	211	204	212	214	211	208	220	209	236	159
21	222	209	219	213	220	227	149	132	141	195	195	193	224	215	195	200	188	216	203	215	216	224	244	259	206	259	132
22	296	306	114	164	181	198	178	35	119	188	205	195	207	211	205	184	230	188	196	187	216	211	244	221	199	306	35
23	234	245	199	201	179	200	108	100	115	201	194	192	206	225	229	234	230	229	242	294	299	290	267	258	221	299	100
24	269	270	275	271	257	260	104	73	255	270	258	234	291	224	240	266	263	252	256	282	291	283	127	178	257	291	73
25	209	190	14	31	92	96	95	54	200	232	266	266	238	246	221	263	259	240	220	241	319	107	204	268	232	319	14
26	240	241	262	280	270	249	186	259	257	247	252	248	252	245	243	216	271	247	250	266	278	164	268	297	251	297	164
27	282	273	262	249	280	154	176	256	302	266	269	254	257	242	262	248	249	254	245	280	251	316	285	269	260	316	154
28	262	273	275	193	159	167	136	64	217	276	277	262	258	263	256	253	237	240	133	192	249	309	240	255	239	309	64
29	227	234	230	227	254	271	220	183	253	320	281	201	212	315	224	134	186	108	127	94	74	85	87	85	202	320	74
30	109	119	129	124	124	136	104	55	57	216	302	275	296	304	227	265	261	244	249	293	312	29	141	176	208	312	29
31	194	173	156	200	190	175	137	49	334	262	258	274	279	239	233	245	328	201	201	161	269	341	233	201	225	341	49
Avg	201	215	208	201	184	174	139	103	178	218	233	233	235	237	233	225	226	220	233	232	259	249	218	217	214	--	--
Max	296	306	275	280	280	295	220	259	334	320	302	277	342	332	315	266	328	281	340	296	319	341	285	297	--	342	--
Min	40	44	14	31	39	43	33	35	46	50	45	40	43	35	29	9	8	12	22	24	16	15	39	8	--	--	8

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Jun 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	239	245	240	221	153	148	137	98	253	250	247	259	232	219	219	207	238	284	202	1	314	330	174	183	226	330	1
2	175	192	177	191	158	156	150	83	34	288	280	262	287	245	271	247	238	211	222	221	220	295	286	272	230	295	34
3	279	284	220	175	103	166	105	93	114	242	255	290	283	247	289	284	191	220	117	203	312	2	107	14	230	312	2
4	314	306	201	105	154	168	138	158	233	255	276	241	245	242	249	285	325	197	277	310	264	293	234	272	247	325	105
5	289	161	227	198	177	171	145	85	132	274	244	260	285	245	229	241	252	281	216	286	229	210	130	190	221	289	85
6	168	183	183	269	293	138	123	92	353	267	301	274	226	203	264	257	264	262	347	122	130	176	103	126	212	353	92
7	130	285	179	282	254	198	144	84	334	249	223	173	251	254	237	240	180	93	294	307	303	298	299	288	249	334	84
8	279	296	279	287	269	252	139	103	256	272	260	238	239	250	260	245	272	273	263	261	283	286	298	293	266	298	103
9	302	331	288	168	86	72	44	54	62	60	60	317	202	238	251	251	253	243	260	270	283	277	39	204	289	331	39
10	184	173	220	225	223	271	52	322	267	217	276	277	272	275	232	208	200	175	214	183	207	185	308	245	231	322	52
11	239	217	216	217	220	237	227	234	218	227	224	223	215	190	197	222	211	162	190	152	329	295	308	244	223	329	152
12	232	232	205	176	149	153	121	103	140	303	187	252	233	209	202	217	212	217	272	290	96	188	193	209	201	303	96
13	224	234	236	246	230	240	241	237	232	210	242	247	224	207	250	194	223	124	176	38	331	299	288	303	238	331	38
14	308	126	218	217	182	215	225	215	215	214	209	210	230	205	183	128	218	225	166	263	288	314	310	305	223	314	126
15	86	256	252	194	93	55	61	176	226	203	219	225	190	201	200	210	165	146	132	291	23	179	151	217	186	291	23
16	214	206	208	210	180	159	176	187	215	215	209	179	192	199	196	230	162	21	85	96	279	299	297	190	200	299	21
17	195	212	215	219	215	221	206	253	210	226	198	207	203	208	183	160	169	159	198	210	213	212	213	212	205	253	159
18	215	216	222	214	215	203	200	198	207	188	220	223	211	233	199	191	221	204	126	79	269	290	288	138	210	290	79
19	197	177	233	167	159	183	130	122	271	261	127	127	216	266	279	283	242	291	284	279	274	22	234	275	230	291	22
20	35	202	171	181	187	181	162	118	271	252	258	258	250	265	294	254	263	235	260	283	280	284	292	299	247	299	35
21	295	263	261	251	274	262	149	330	260	267	258	242	230	288	257	255	250	285	240	341	296	286	289	280	269	341	149
22	95	149	222	241	129	146	175	180	203	245	234	231	281	263	218	219	256	287	312	248	264	280	289	259	233	312	95
23	152	231	209	249	255	238	235	238	231	212	215	235	236	208	188	236	260	183	137	150	256	293	120	215	219	293	120
24	254	247	193	167	173	207	174	199	199	227	174	217	258	289	210	219	235	289	252	183	89	174	184	170	209	289	89
25	189	212	219	251	234	240	214	172	209	210	196	212	241	243	223	217	195	197	63	184	246	212	237	241	216	251	63
26	231	222	230	217	228	226	211	221	228	221	228	216	225	207	193	202	207	186	181	127	202	148	185	216	208	231	127
27	202	210	215	220	217	225	163	227	226	275	267	274	235	204	188	229	280	209	43	277	291	303	305	260	240	305	43
28	275	356	269	300	193	174	130	0	248	265	277	240	225	294	281	247	277	229	315	232	219	248	147	164	251	356	0
29	261	267	259	254	242	143	133	219	257	251	264	236	286	283	275	267	258	218	239	186	209	319	319	300	252	319	133
30	277	256	273	264	276	179	144	301	266	246	253	259	238	249	245	241	234	225	307	238	322	290	288	293	260	322	144
Avg	232	229	224	220	200	192	157	167	232	242	237	238	238	237	232	231	232	221	230	240	270	273	258	242	229	--	--
Max	314	356	288	300	293	271	241	330	353	303	301	317	287	294	294	285	325	291	347	341	331	330	319	305	--	356	--
Min	35	126	171	105	86	55	44	0	34	60	60	127	190	190	183	128	162	21	43	1	23	2	39	14	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Apr 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	0.31	0.48	0.39	0.41	0.26	0.41	0.26	-0.08	-0.46	-0.75	-0.98	-1.13	-1.02	-1.12	-1.08	-0.95	-0.71	-0.42	-0.03	0.09	0.10	0.09	0.12	0.12	-0.24	0.48	-1.13
2	0.19	0.35	0.13	0.06	0.07	0.12	0.03	-0.25	-0.64	-0.99	-1.02	-1.07	-1.03	-1.16	-1.09	-0.93	-0.63	-0.38	-0.10	-0.12	-0.10	-0.11	-0.03	0.02	-0.36	0.35	-1.16
3	0.14	0.16	0.26	0.38	0.56	0.36	0.49	-0.50	-0.76	-0.89	-0.97	-1.07	-1.06	-1.22	-1.32	-1.11	-0.70	-0.54	-0.07	0.03	0.24	0.76	0.54	0.78	-0.23	0.78	-1.32
4	0.91	0.72	1.07	0.99	0.81	0.54	0.34	-0.39	-1.02	-1.22	-1.38	-1.43	-1.68	-1.28	-1.31	-1.03	-0.58	-0.28	-0.06	0.15	0.37	0.19	0.28	0.66	-0.19	1.07	-1.68
5	0.57	0.23	0.24	0.29	0.27	0.50	0.57	-0.09	-0.89	-0.89	-1.02	-1.12	-1.39	-1.24	-1.12	-0.77	-0.72	-0.43	-0.05	0.06	0.12	0.13	0.12	0.13	-0.27	0.57	-1.39
6	0.11	0.24	0.44	0.81	0.83	1.13	0.60	-0.41	-0.76	-0.55	-0.80	-0.95	-1.06	-0.90	-0.99	-0.93	-0.74	-0.40	-0.04	0.08	0.18	0.21	0.32	0.83	-0.11	1.13	-1.06
7	0.96	0.90	0.66	0.82	0.87	0.67	0.61	-0.30	-0.77	-1.12	-1.51	-1.72	-1.81	-1.92	-1.57	-1.48	-0.94	-0.40	-0.04	0.08	0.12	0.53	0.83	1.22	-0.22	1.22	-1.92
8	1.01	1.01	1.21	0.77	0.71	0.61	0.51	-0.29	-0.76	-1.39	-1.67	-1.37	-1.23	-1.32	-1.32	-1.16	-0.80	-0.43	0.02	0.17	0.38	0.87	0.89	1.07	-0.11	1.21	-1.67
9	0.84	1.15	1.07	1.07	0.78	0.75	0.64	0.08	-0.82	-0.82	-0.88	-1.15	-1.05	-1.06	-0.92	-0.91	-0.74	-0.35	0.08	0.16	0.30	0.66	0.50	0.95	0.01	1.15	-1.15
10	0.94	0.49	0.96	1.26	1.40	1.08	0.85	0.82	-0.56	-0.91	-0.99	-1.05	-1.29	-1.01	-1.11	-0.94	-0.70	-0.31	0.06	0.52	0.59	0.76	0.52	0.87	0.09	1.40	-1.29
11	0.98	0.88	1.55	1.07	1.04	0.84	0.44	0.92	-0.36	-0.94	-1.23	-1.48	-0.94	-0.64	-0.87	-1.01	-0.80	-0.47	0.22	0.62	0.67	0.23	0.28	0.43	0.06	1.55	-1.48
12	0.71	0.47	0.51	0.67	0.47	0.42	0.62	0.03	-0.55	-0.77	-1.02	-1.12	-1.13	-1.14	-0.97	-0.84	-0.77	-0.42	0.00	0.12	0.20	0.27	0.37	0.31	-0.15	0.71	-1.14
13	0.48	0.27	0.26	0.36	0.46	0.59	0.28	-0.49	-0.74	-1.10	-1.09	-1.13	-1.22	-1.18	-1.02	-0.86	-0.59	-0.32	-0.05	0.05	0.18	0.29	0.36	0.22	-0.25	0.59	-1.22
14	0.17	0.20	0.24	0.15	0.16	0.18	-0.06	-0.50	-0.79	-1.03	-1.32	-1.66	-1.70	-1.69	-1.63	-1.37	-1.08	-0.59	0.22	0.43	0.55	0.41	0.37	0.37	-0.42	0.55	-1.70
15	0.37	0.41	0.48	0.43	0.25	0.26	-0.01	-0.53	-0.95	-1.24	-1.55	-1.54	-1.59	-1.44	-1.58	-1.48	-1.05	-0.56	-0.01	0.20	0.60	1.14	1.11	1.07	-0.30	1.14	-1.59
16	1.15	1.42	1.42	1.11	1.04	1.17	0.94	-0.05	-0.73	-0.52	-0.92	-1.19	-1.15	-1.18	-1.19	-0.87	-0.72	-0.41	0.01	0.23	0.24	0.32	0.24	0.22	0.02	1.42	-1.19
17	0.19	0.32	0.39	0.38	0.60	0.87	0.73	-0.36	-0.64	-0.62	-0.91	-1.21	-1.17	-1.07	-1.19	-1.13	-0.91	-0.38	0.01	0.12	0.65	0.91	0.81	0.71	-0.12	0.91	-1.21
18	0.88	1.02	0.23	0.33	0.29	0.57	0.46	0.26	-0.28	-0.76	-0.64	-0.54	-0.35	-0.24	-0.21	-0.28	-0.24	-0.13	-0.05	0.07	0.10	0.16	0.19	0.41	0.05	1.02	-0.76
19	0.36	0.33	0.20	0.28	0.38	0.36	0.10	-0.19	-0.49	-0.98	-0.55	-0.90	-0.50	-1.09	-1.12	-0.67	-0.67	-0.61	-0.26	0.05	0.12	0.14	0.34	0.08	-0.22	0.38	-1.12
20	0.29	0.63	0.69	0.72	0.71	0.91	0.32	-0.59	-0.94	-0.87	-0.92	-1.23	-1.33	-1.33	-1.19	-1.09	-0.91	-0.55	-0.09	0.06	0.12	0.13	0.19	0.23	-0.25	0.91	-1.33
21	0.51	0.66	0.90	1.03	0.95	0.78	0.39	-0.42	-0.96	-0.92	-0.83	-1.11	-1.18	-1.34	-1.31	-1.08	-0.90	-0.56	-0.05	0.08	0.14	0.50	0.80	1.08	-0.12	1.08	-1.34
22	1.10	1.11	1.09	1.03	1.00	0.96	0.83	-0.51	-0.72	-0.59	-0.86	-1.18	-1.26	-1.24	-1.07	-0.84	-0.60	-0.26	-0.04	0.03	0.03	0.05	0.11	0.21	-0.07	1.11	-1.26
23	0.19	0.21	0.18	0.24	0.30	0.31	0.09	-0.34	-0.76	-0.82	-1.14	-1.16	-1.15	-1.14	-1.03	-0.89	-0.80	-0.45	-0.08	0.16	0.21	0.32	0.63	0.95	-0.25	0.95	-1.16
24	0.27	0.62	0.84	0.79	1.21	0.95	0.27	-0.51	-0.93	-1.27	-1.41	-1.54	-1.36	-1.34	-0.99	-1.19	-0.86	-0.53	-0.03	0.28	0.74	1.10	0.91	0.89	-0.13	1.21	-1.54
25	0.75	0.83	0.65	0.71	0.56	0.76	0.58	-0.55	-0.87	-0.87	-1.19	-1.33	-1.22	-1.23	-1.21	-0.88	-0.56	-0.26	-0.06	0.02	0.05	0.07	0.09	0.17	-0.21	0.83	-1.33
26	0.21	0.18	0.29	0.19	0.18	-0.02	-0.13	-0.13	-0.18	-0.22	-0.34	-0.15	-0.16	-0.39	-0.58	-0.56	-0.60	-0.32	-0.02	0.06	0.04	0.11	0.15	0.30	-0.09	0.30	-0.60
27	0.41	0.51	0.34	0.65	0.63	0.53	-0.01	-0.47	-0.53	-0.80	-0.97	-1.01	-1.09	-1.14	-1.14	-1.10	-0.78	-0.47	-0.08	0.07	0.18	0.58	0.54	0.58	-0.19	0.65	-1.14
28	0.51	0.21	0.26	0.42	0.67	0.81	0.16	-0.40	-0.42	-0.84	-0.88	-1.05	-1.17	-0.97	-1.05	-0.89	-0.65	-0.48	-0.07	0.15	0.30	0.47	0.91	0.37	-0.15	0.91	-1.17
29	0.27	0.21	0.16	0.14	0.12	0.09	-0.15	-0.46	-0.71	-1.02	-1.47	-1.61	-1.77	-1.70	-1.65	-1.50	-1.24	-0.73	0.04	0.29	0.35	0.29	0.27	0.32	-0.48	0.35	-1.77
30	0.27	0.24	0.24	0.22	0.15	0.14	-0.13	-0.51	-0.86	-1.10	-1.21	-1.42	-1.53	-1.92	-1.61	-1.43	-1.26	-1.01	-0.08	0.24	0.20	0.10	0.09	0.10	-0.50	0.27	-1.92
Avg	0.54	0.55	0.58	0.59	0.59	0.59	0.35	-0.24	-0.69	-0.89	-1.06	-1.19	-1.19	-1.19	-1.15	-1.01	-0.77	-0.45	-0.02	0.15	0.27	0.39	0.43	0.52	-0.18	--	--
Max	1.15	1.42	1.55	1.26	1.40	1.17	0.94	0.92	-0.18	-0.22	-0.34	-0.15	-0.16	-0.24	-0.21	-0.28	-0.24	-0.13	0.22	0.62	0.74	1.14	1.11	1.22	--	1.55	--
Min	0.11	0.16	0.13	0.06	0.07	-0.02	-0.15	-0.59	-1.02	-1.39	-1.67	-1.72	-1.81	-1.92	-1.65	-1.50	-1.26	-1.01	-0.26	-0.12	-0.10	-0.11	-0.03	0.02	--	--	-1.92

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: May 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	0.12	0.12	0.12	0.12	0.11	0.16	-0.07	-0.48	-0.73	-0.99	-1.41	-1.54	-1.91	-1.69	-1.46	-1.58	-1.24	-0.87	-0.07	0.47	0.67	0.50	0.72	0.55	-0.43	0.72	-1.91
2	0.54	0.59	0.49	0.40	0.47	0.43	0.02	-0.54	-0.90	-1.30	-1.58	-2.07	-1.91	-1.71	-1.43	-1.36	-0.88	-0.51	-0.09	0.09	0.19	0.42	0.38	0.59	-0.40	0.59	-2.07
3	0.85	1.15	0.85	0.74	0.77	1.16	0.46	-0.39	-0.91	-1.26	-0.99	-1.03	-1.26	-1.19	-1.18	-1.03	-0.92	-0.55	-0.03	0.33	0.78	0.83	0.93	1.12	-0.03	1.16	-1.26
4	1.09	0.85	0.65	0.62	0.72	0.69	0.40	-0.64	-0.92	-1.11	-1.24	-1.25	-1.31	-1.26	-1.11	-1.04	-0.68	-0.42	0.01	0.17	0.28	0.34	0.55	0.35	-0.18	1.09	-1.31
5	0.52	0.49	0.43	0.70	0.62	0.97	0.37	-0.63	-0.67	-1.06	-1.14	-1.11	-1.11	-1.25	-1.22	-0.99	-0.71	-0.43	-0.07	0.08	0.13	0.14	0.18	0.18	-0.23	0.97	-1.25
6	0.18	0.16	0.27	0.36	0.43	0.33	0.11	-0.35	-0.72	-1.07	-1.31	-1.27	-1.22	-1.10	-0.84	-0.58	-0.39	-0.30	-0.16	-0.09	-0.01	0.03	0.06	0.07	-0.31	0.43	-1.31
7	0.12	0.16	0.25	0.26	0.07	0.22	-0.06	-0.43	-0.86	-1.12	-0.87	-1.16	-1.29	-1.18	-1.36	-0.88	-0.76	-0.53	-0.18	0.04	0.13	0.34	0.36	0.50	-0.34	0.50	-1.36
8	0.82	0.58	0.68	0.21	0.20	0.62	0.12	-0.54	-0.60	-0.90	-1.15	-1.37	-1.13	-1.45	-1.14	-1.12	-0.83	-0.67	-0.17	0.06	0.08	0.26	0.73	0.64	-0.25	0.82	-1.45
9	0.70	0.95	0.83	0.72	0.80	0.89	0.22	-0.68	-0.52	-0.82	-1.20	-1.07	-1.11	-1.01	-0.97	-0.87	-0.81	-0.55	-0.10	0.18	0.39	0.59	0.61	0.83	-0.08	0.95	-1.20
10	0.83	0.62	0.67	0.53	0.85	0.83	0.05	-0.86	-0.96	-1.06	-1.47	-1.14	-1.32	-1.21	-1.18	-0.98	-0.79	-0.41	-0.08	0.06	0.07	0.08	0.09	0.10	-0.28	0.85	-1.47
11	0.08	0.06	0.06	0.06	0.06	0.03	-0.15	-0.35	-0.52	-0.71	-0.98	-1.06	-1.14	-1.02	-1.00	-0.97	-0.75	-0.44	-0.15	0.06	0.16	0.21	0.21	0.52	-0.32	0.52	-1.14
12	0.66	0.24	0.31	0.33	0.24	0.22	-0.31	-0.71	-1.11	-1.26	-1.97	-2.05	-1.63	-1.66	-1.26	-1.19	-0.97	-0.70	-0.14	0.00	0.06	0.40	0.35	0.25	-0.50	0.66	-2.05
13	0.23	0.17	0.18	0.20	0.17	0.12	-0.18	-0.52	-0.84	-1.16	-1.40	-1.65	-1.85	-1.85	-1.78	-1.51	-1.19	-0.76	-0.10	0.23	0.20	0.20	0.18	0.18	-0.53	0.23	-1.85
14	0.19	0.18	0.14	0.13	0.16	0.11	-0.15	-0.43	-0.81	-1.16	-1.27	-1.42	-1.48	-1.63	-1.56	-1.63	-1.12	-0.90	-0.11	0.46	0.29	0.47	0.38	0.44	-0.45	0.47	-1.63
15	0.39	0.30	0.25	0.28	0.19	0.17	-0.18	-0.66	-1.04	-1.50	-1.88	-1.83	-2.17	-2.36	-2.14	-1.57	-1.27	-0.61	-0.12	0.11	0.12	0.29	0.75	0.82	-0.57	0.82	-2.36
16	0.82	0.95	1.05	0.76	1.09	1.13	0.63	-0.52	-0.69	-0.61	-1.08	-1.01	-1.22	-1.29	-1.21	-0.94	-0.86	-0.56	-0.07	0.06	0.09	0.17	0.31	0.23	-0.12	1.13	-1.29
17	0.24	0.35	0.47	0.96	0.80	0.95	0.59	-0.50	-0.58	-0.89	-1.01	-1.33	-1.27	-1.30	-1.09	-1.02	-0.78	-0.52	-0.09	0.19	0.48	1.05	1.09	0.58	-0.11	1.09	-1.33
18	0.82	1.07	1.07	0.68	0.86	0.84	0.15	-0.40	-0.64	-0.96	-1.21	-1.43	-1.29	-1.13	-0.83	-0.48	-0.50	-0.35	0.00	0.17	0.42	1.00	0.37	0.46	-0.06	1.07	-1.43
19	0.68	0.57	0.47	0.70	0.97	0.98	0.25	-0.36	-0.68	-0.89	-1.04	-1.20	-1.36	-1.21	-1.16	-0.90	-0.58	-0.50	-0.06	0.13	0.16	0.25	0.28	0.35	-0.17	0.98	-1.36
20	0.32	0.24	0.36	0.52	0.56	0.78	0.21	-0.39	-0.85	-1.10	-1.30	-1.38	-1.31	-0.97	-1.00	-1.04	-0.70	-0.25	-0.11	-0.01	0.02	0.07	0.15	0.20	-0.29	0.78	-1.38
21	0.26	0.21	0.23	0.35	0.33	0.44	-0.08	-0.64	-1.04	-1.22	-1.41	-1.52	-1.45	-1.34	-1.32	-1.16	-0.81	-0.53	-0.16	0.06	0.15	0.14	0.20	0.19	-0.42	0.44	-1.52
22	0.33	0.66	0.66	0.51	0.85	0.95	0.55	-0.79	-1.14	-1.16	-1.36	-1.54	-1.49	-1.24	-1.32	-1.13	-0.90	-0.57	-0.16	0.04	0.06	0.08	0.15	0.13	-0.33	0.95	-1.54
23	0.10	0.05	0.20	0.63	0.60	0.44	0.24	-0.40	-0.93	-1.29	-1.50	-1.57	-1.51	-1.47	-1.28	-1.14	-0.97	-0.61	-0.22	0.00	0.06	0.01	0.05	0.08	-0.44	0.63	-1.57
24	0.04	0.03	0.14	0.22	0.53	0.05	-0.03	-0.17	-0.52	-0.65	-1.04	-1.19	-1.46	-1.42	-1.23	-1.05	-0.71	-0.35	-0.16	0.01	0.04	0.19	0.64	0.46	-0.32	0.64	-1.46
25	0.31	0.32	0.17	0.34	0.24	0.13	-0.31	-1.05	-0.94	-0.92	-1.22	-1.26	-1.40	-1.16	-0.88	-1.06	-0.99	-0.62	-0.19	0.05	0.17	0.35	0.68	0.44	-0.37	0.68	-1.40
26	0.76	0.28	0.33	0.37	0.23	0.40	0.01	-0.30	-0.55	-0.86	-0.98	-1.21	-1.30	-1.22	-1.20	-1.14	-0.77	-0.51	-0.19	0.04	0.16	0.47	0.39	0.65	-0.26	0.76	-1.30
27	0.32	0.96	0.80	1.09	0.62	0.94	-0.04	-0.39	-0.53	-0.54	-0.72	-1.09	-1.31	-1.35	-1.25	-1.12	-0.91	-0.52	-0.18	0.07	0.15	0.32	0.41	0.13	-0.17	1.09	-1.35
28	0.15	0.10	0.16	0.56	0.79	0.81	0.06	-0.59	-0.74	-0.79	-0.62	-0.78	-0.82	-0.76	-1.17	-1.07	-0.77	-0.52	-0.07	0.20	0.11	0.20	0.23	0.21	-0.21	0.81	-1.17
29	0.55	0.20	0.63	0.29	0.33	0.15	0.22	-0.26	-0.27	-0.30	-0.23	-0.50	-0.47	-0.71	-1.11	-1.11	-1.05	-0.67	-0.27	0.14	0.32	0.34	0.47	0.59	-0.12	0.63	-1.11
30	0.45	0.38	0.45	0.45	0.43	0.35	-0.21	-0.97	-1.53	-1.32	-1.35	-1.22	-1.40	-1.31	-1.45	-1.26	-0.92	-0.66	-0.24	0.04	0.21	0.57	0.81	0.69	-0.38	0.81	-1.53
31	0.85	0.80	0.87	1.03	0.71	0.99	0.09	-0.82	-1.16	-0.74	-0.89	-1.18	-1.57	-1.37	-1.41	-1.07	-0.96	-0.57	-0.22	0.08	0.07	0.15	0.20	0.18	-0.25	1.03	-1.57
Avg	0.46	0.44	0.46	0.49	0.51	0.56	0.10	-0.54	-0.80	-0.99	-1.19	-1.30	-1.37	-1.32	-1.24	-1.10	-0.85	-0.55	-0.13	0.11	0.20	0.34	0.42	0.41	-0.29	--	--
Max	1.09	1.15	1.07	1.09	1.09	1.16	0.63	-0.17	-0.27	-0.30	-0.23	-0.50	-0.47	-0.71	-0.83	-0.48	-0.39	-0.25	0.01	0.47	0.78	1.05	1.09	1.12	--	1.16	--
Min	0.04	0.03	0.06	0.06	0.06	0.03	-0.31	-1.05	-1.53	-1.50	-1.97	-2.07	-2.17	-2.36	-2.14	-1.63	-1.27	-0.90	-0.27	-0.09	-0.01	0.01	0.05	0.07	--	--	-2.36

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Jun 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	0.36	0.33	0.36	0.46	0.79	0.90	-0.01	-0.66	-0.77	-0.92	-1.13	-1.32	-1.53	-1.48	-1.38	-1.11	-0.86	-0.56	-0.19	0.11	0.22	0.55	0.82	0.65	-0.27	0.90	-1.53
2	0.69	0.59	0.79	0.77	1.05	1.06	0.40	-0.80	-1.39	-0.66	-0.98	-1.16	-1.22	-1.43	-1.18	-1.03	-0.76	-0.41	-0.13	0.65	0.82	0.72	0.47	0.26	-0.12	1.06	-1.43
3	0.34	0.46	0.71	0.87	0.75	0.59	-0.06	-0.65	-0.96	-1.00	-1.38	-1.09	-1.37	-1.27	-1.19	-1.29	-0.84	-0.54	-0.19	0.13	0.24	0.69	1.11	1.16	-0.20	1.16	-1.38
4	1.20	1.30	1.21	1.27	1.13	0.65	0.04	-0.53	-0.75	-0.91	-1.05	-1.18	-1.27	-1.25	-1.27	-1.02	-0.92	-0.63	-0.23	0.14	0.21	0.98	1.41	1.95	0.02	1.95	-1.27
5	1.33	1.44	1.32	1.16	1.22	1.30	0.29	-0.82	-0.97	-0.91	-1.15	-1.49	-1.26	-1.52	-1.25	-1.31	-1.00	-0.75	-0.21	0.15	0.51	1.04	1.21	0.87	-0.03	1.44	-1.52
6	1.08	1.13	2.02	1.32	1.07	0.85	0.26	-0.73	-0.74	-0.74	-1.36	-1.30	-1.31	-1.50	-1.40	-1.25	-1.01	-0.64	-0.23	0.22	0.49	0.89	1.46	1.35	0.00	2.02	-1.50
7	1.34	1.47	1.13	0.80	0.95	0.83	-0.07	-0.76	-0.85	-0.87	-1.25	-1.61	-1.33	-1.22	-1.26	-1.10	-0.98	-0.63	-0.27	0.11	0.20	0.23	0.22	0.14	-0.20	1.47	-1.61
8	0.14	0.24	0.23	0.19	0.37	0.74	-0.06	-0.61	-0.64	-0.59	-1.09	-1.24	-1.48	-1.38	-1.38	-1.12	-0.91	-0.65	-0.30	-0.01	0.07	0.11	0.11	0.10	-0.38	0.74	-1.48
9	0.22	0.61	1.28	0.77	0.85	0.34	-0.15	-0.64	-1.13	-1.71	-2.02	-1.49	-1.63	-1.50	-1.30	-1.11	-0.84	-0.65	-0.22	0.08	0.16	0.31	0.94	1.15	-0.32	1.28	-2.02
10	1.20	0.68	0.75	0.65	0.94	0.70	0.05	-0.35	-0.45	-1.06	-0.98	-1.04	-1.42	-1.29	-1.33	-1.20	-0.92	-0.71	-0.21	0.11	0.19	0.16	0.17	0.34	-0.21	1.20	-1.42
11	0.44	0.26	0.24	0.31	0.49	0.58	0.01	-0.26	-0.72	-0.97	-1.28	-1.25	-1.28	-1.36	-1.30	-1.04	-0.82	-0.41	-0.16	0.05	0.11	0.28	0.69	0.72	-0.28	0.72	-1.36
12	0.55	0.86	0.93	0.74	0.59	0.71	-0.04	-0.74	-1.01	-1.16	-1.51	-1.48	-1.60	-1.61	-1.23	-1.25	-0.96	-0.74	-0.29	0.04	0.30	0.30	0.28	0.21	-0.34	0.93	-1.61
13	0.20	0.19	0.20	0.24	0.33	0.16	-0.11	-0.46	-0.76	-1.08	-1.08	-1.06	-1.37	-1.46	-1.32	-1.09	-0.82	-0.63	-0.26	0.01	0.06	0.07	0.07	0.16	-0.41	0.33	-1.46
14	0.23	0.38	0.29	0.25	0.22	0.37	-0.05	-0.52	-0.62	-0.93	-1.12	-1.21	-1.13	-1.36	-1.15	-1.23	-0.88	-0.57	-0.26	0.06	0.10	0.22	0.29	0.34	-0.35	0.38	-1.36
15	0.86	0.57	0.48	0.85	0.91	0.59	-0.07	-0.61	-0.76	-0.97	-0.96	-0.98	-1.39	-1.10	-1.08	-0.78	-0.51	-0.39	-0.12	0.11	0.23	0.27	0.34	0.26	-0.18	0.91	-1.39
16	0.32	0.41	0.70	0.66	0.76	0.77	0.18	-0.43	-0.81	-0.96	-1.05	-1.24	-1.28	-1.00	-1.21	-0.94	-0.75	-0.63	-0.21	0.04	0.08	0.14	0.11	0.28	-0.25	0.77	-1.28
17	0.26	0.26	0.15	0.15	0.32	0.28	-0.01	-0.44	-0.76	-0.89	-1.17	-1.19	-1.27	-1.18	-1.26	-1.09	-0.83	-0.52	-0.15	-0.02	0.02	0.04	0.06	0.07	-0.38	0.32	-1.27
18	0.08	0.16	0.19	0.32	0.37	0.32	-0.09	-0.45	-0.86	-1.14	-1.12	-1.18	-1.30	-1.19	-1.36	-0.98	-0.81	-0.62	-0.30	0.03	0.07	0.23	0.53	0.68	-0.35	0.68	-1.36
19	0.53	0.46	1.14	0.73	0.50	0.76	-0.12	-0.68	-0.49	-0.79	-1.52	-1.85	-1.73	-1.61	-1.35	-1.30	-0.96	-0.71	-0.30	-0.01	0.07	0.47	0.64	0.46	-0.32	1.14	-1.85
20	0.49	0.72	0.60	0.83	0.77	0.82	0.23	-0.64	-0.40	-0.88	-0.92	-1.22	-1.34	-1.35	-1.33	-1.18	-0.91	-0.63	-0.29	0.02	0.04	0.09	0.11	0.10	-0.26	0.83	-1.35
21	0.06	0.20	0.17	0.32	0.62	0.73	-0.18	-0.58	-0.57	-0.61	-0.88	-1.17	-1.46	-1.19	-1.00	-1.08	-0.84	-0.69	-0.34	0.01	0.04	0.08	0.11	0.12	-0.34	0.73	-1.46
22	0.30	0.32	0.40	0.55	0.69	0.44	-0.08	-0.56	-0.89	-1.02	-1.04	-1.28	-1.40	-1.28	-1.24	-1.16	-0.97	-0.62	-0.36	0.07	0.24	0.24	0.19	0.24	-0.34	0.69	-1.40
23	0.73	0.74	1.09	0.74	0.84	0.90	0.19	-0.39	-0.70	-1.11	-1.35	-1.28	-1.42	-1.52	-1.44	-1.22	-0.94	-0.69	-0.28	0.11	0.22	0.63	0.87	1.08	-0.18	1.09	-1.52
24	0.53	0.63	1.02	0.79	0.94	0.78	0.15	-0.45	-0.82	-1.07	-1.50	-1.47	-1.20	-1.35	-1.23	-1.24	-0.84	-0.76	-0.32	0.19	0.41	0.69	0.89	0.86	-0.18	1.02	-1.50
25	0.61	0.83	1.25	1.00	0.89	0.52	-0.10	-0.59	-0.88	-1.01	-1.26	-1.44	-1.32	-1.42	-1.38	-1.18	-1.04	-0.67	-0.29	0.14	0.26	0.47	0.55	0.49	-0.23	1.25	-1.44
26	0.26	0.53	0.48	0.57	0.42	0.76	0.10	-0.41	-0.64	-0.94	-1.15	-1.43	-1.39	-1.31	-1.13	-0.89	-0.39	-0.41	-0.18	0.01	0.04	0.07	0.13	0.20	-0.28	0.76	-1.43
27	0.31	0.26	0.23	0.16	0.28	0.24	-0.19	-0.48	-0.73	-0.93	-1.01	-1.38	-1.34	-1.45	-1.32	-1.12	-1.02	-0.68	-0.34	0.00	0.11	0.09	0.10	0.14	-0.42	0.31	-1.45
28	0.14	0.56	0.83	1.00	0.60	0.83	-0.03	-0.65	-0.65	-0.87	-1.09	-1.32	-1.47	-1.53	-1.45	-1.24	-1.08	-0.69	-0.42	0.02	0.16	0.33	0.83	0.78	-0.27	1.00	-1.53
29	0.73	0.22	0.47	0.51	0.34	0.67	-0.17	-0.52	-0.61	-0.99	-1.28	-1.55	-1.55	-1.42	-1.38	-1.23	-0.98	-0.75	-0.36	0.02	0.20	0.28	0.29	0.14	-0.37	0.73	-1.55
30	0.11	0.10	0.14	0.13	0.32	0.54	-0.14	-0.51	-0.47	-1.01	-1.24	-1.21	-1.43	-1.43	-1.46	-1.22	-1.01	-0.69	-0.32	0.03	0.16	0.10	0.11	0.15	-0.43	0.54	-1.46
Avg	0.52	0.56	0.69	0.64	0.68	0.66	0.01	-0.56	-0.76	-0.96	-1.20	-1.30	-1.38	-1.37	-1.28	-1.13	-0.88	-0.62	-0.26	0.09	0.20	0.36	0.50	0.51	-0.26	--	--
Max	1.34	1.47	2.02	1.32	1.22	1.30	0.40	-0.26	-0.40	-0.59	-0.88	-0.98	-1.13	-1.00	-1.00	-0.78	-0.39	-0.39	-0.12	0.65	0.82	1.04	1.46	1.95	--	2.02	--
Min	0.06	0.10	0.14	0.13	0.22	0.16	-0.19	-0.82	-1.39	-1.71	-2.02	-1.85	-1.73	-1.61	-1.46	-1.31	-1.08	-0.76	-0.42	-0.02	0.02	0.04	0.06	0.07	--	--	-2.02

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Apr 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	14.5	14.4	13.7	13.1	12.7	12.1	11.8	12.2	12.8	14.1	15.2	16.2	16.5	17.3	17.9	18.3	17.8	16.8	15.3	14.2	13.3	12.4	11.4	10.8	14.4	18.3	10.8
2	10.4	10.1	9.6	8.0	7.1	6.4	5.9	6.5	8.3	9.9	10.7	10.9	10.7	11.6	11.9	11.8	11.1	10.8	9.3	8.8	8.3	6.7	6.6	6.6	9.1	11.9	5.9
3	6.0	5.6	5.3	4.2	3.9	2.9	3.1	5.1	7.5	8.6	9.5	10.8	11.8	12.9	13.7	13.7	13.2	13.0	12.0	11.3	10.6	9.5	9.0	8.7	8.8	13.7	2.9
4	8.4	7.8	7.3	6.7	6.3	6.3	6.6	10.3	12.5	14.8	16.1	17.0	18.1	18.2	18.8	18.5	17.4	16.7	15.8	15.1	14.6	14.3	13.4	12.1	13.0	18.8	6.3
5	12.2	12.2	11.7	10.8	9.9	9.1	8.2	8.8	11.4	12.6	13.7	14.7	15.7	15.7	15.9	15.7	15.7	15.2	14.2	13.7	13.4	13.2	13.0	12.9	12.9	15.9	8.2
6	12.5	12.0	10.5	8.9	8.8	8.4	7.9	10.5	13.3	13.1	14.4	15.5	16.1	16.6	17.2	17.7	18.0	17.5	16.7	16.2	15.7	15.5	15.4	13.5	13.8	18.0	7.9
7	12.1	12.6	11.4	10.3	10.0	10.2	11.4	13.8	15.5	16.7	18.5	19.7	21.0	22.3	22.8	23.4	23.2	21.7	20.4	19.6	19.1	18.1	17.1	14.9	16.9	23.4	10.0
8	15.5	15.6	15.2	14.6	14.7	13.6	13.7	17.0	20.0	21.9	23.6	24.3	25.1	25.6	26.2	26.4	25.8	25.1	23.8	22.7	21.9	20.9	18.9	18.4	20.4	26.4	13.6
9	18.6	17.4	17.6	15.6	15.5	15.2	14.4	16.6	20.8	23.3	24.1	25.3	25.6	25.9	26.0	26.4	26.1	25.2	23.8	22.8	22.2	21.6	21.8	20.9	21.4	26.4	14.4
10	18.8	18.9	17.7	18.1	16.5	16.8	17.1	17.6	20.5	22.8	24.5	25.3	26.4	27.0	27.5	27.4	26.9	26.3	25.2	22.9	21.6	20.7	21.0	19.6	22.0	27.5	16.5
11	19.8	19.8	18.0	18.1	17.6	17.8	18.0	18.4	19.7	22.6	23.9	25.6	25.5	25.0	25.8	26.6	26.5	25.9	24.9	23.1	22.9	22.2	21.5	21.0	22.1	26.6	17.6
12	19.9	19.4	18.5	18.0	18.1	17.5	16.6	17.8	19.2	19.7	20.3	20.8	20.8	20.9	20.9	21.2	21.3	20.8	19.7	19.0	18.4	17.9	17.0	16.1	19.2	21.3	16.1
13	15.0	14.6	13.8	13.1	12.8	11.7	11.7	13.4	15.6	16.9	17.7	18.7	19.8	20.2	20.8	21.2	21.3	20.9	20.0	19.3	18.6	17.9	17.2	17.1	17.1	21.3	11.7
14	16.8	13.4	12.1	11.5	10.9	10.2	10.2	11.3	12.5	13.7	15.2	16.5	17.7	19.0	20.1	20.5	20.5	19.9	18.4	17.6	16.2	16.1	15.7	15.4	15.5	20.5	10.2
15	15.0	14.3	13.1	13.3	12.9	12.0	12.4	14.0	15.5	17.0	18.7	21.0	22.4	23.3	24.2	24.2	24.4	23.7	22.3	20.9	19.8	17.6	16.3	15.4	18.1	24.4	12.0
16	15.6	16.8	15.5	14.3	15.2	12.8	13.8	15.4	19.1	19.6	21.1	22.3	22.6	23.1	23.6	23.3	23.3	22.8	21.8	21.1	21.0	20.8	20.8	20.5	19.4	23.6	12.8
17	19.4	17.8	16.6	16.3	16.0	14.1	14.3	16.8	19.5	20.4	21.5	22.8	23.7	24.4	25.3	25.5	25.5	24.7	23.4	22.7	21.2	20.7	19.5	19.9	20.5	25.5	14.1
18	18.1	18.0	17.7	16.9	16.6	15.8	15.7	16.3	18.1	20.1	19.8	19.5	18.9	19.2	19.1	17.8	17.5	17.5	17.2	16.4	15.9	15.9	15.7	14.8	17.4	20.1	14.8
19	14.6	14.7	14.1	13.6	12.7	12.9	13.8	14.9	16.0	17.7	17.7	18.5	17.8	19.2	19.9	19.6	20.2	20.0	19.1	18.3	18.3	17.6	16.6	16.6	16.9	20.2	12.7
20	15.7	14.4	13.6	12.9	12.8	12.8	13.0	15.6	18.3	19.4	20.1	21.6	22.5	23.0	23.5	23.7	23.8	23.3	22.3	21.5	20.9	20.9	20.8	20.5	19.0	23.8	12.8
21	20.0	18.3	17.9	17.6	16.7	16.4	16.0	19.6	22.8	23.8	24.3	25.4	26.3	26.6	27.1	27.1	27.1	26.5	25.2	24.4	23.9	22.9	21.3	21.2	22.4	27.1	16.0
22	20.5	19.7	19.2	18.7	18.6	16.5	17.1	19.3	22.1	22.4	23.8	25.3	25.8	26.2	26.4	26.6	26.2	25.3	24.3	23.4	22.2	21.1	20.2	18.9	22.1	26.6	16.5
23	17.7	16.9	16.3	15.8	15.1	14.5	14.6	15.3	16.6	17.6	18.5	19.3	20.1	20.7	20.7	20.7	20.8	20.2	19.2	18.3	17.9	17.5	15.9	15.6	17.7	20.8	14.5
24	16.6	14.7	14.2	13.6	12.4	13.1	13.7	16.6	18.4	20.0	21.2	22.2	22.6	23.2	23.4	23.9	23.3	22.7	21.7	20.5	19.1	18.0	17.0	16.4	18.7	23.9	12.4
25	16.1	15.5	15.5	14.6	14.8	14.2	14.8	16.7	19.2	19.9	21.3	22.7	23.6	24.0	24.5	24.8	24.5	23.4	22.3	21.2	20.0	18.9	17.9	16.7	19.5	24.8	14.2
26	16.1	15.5	14.9	14.4	13.5	12.7	12.1	12.1	11.9	11.8	11.2	7.1	6.5	8.5	11.4	12.8	13.3	12.3	11.4	11.0	10.5	9.9	9.6	9.1	11.7	16.1	6.5
27	8.9	8.9	8.9	8.4	8.0	7.4	7.4	9.1	9.9	11.2	12.4	13.3	14.1	15.0	15.6	16.1	16.0	15.8	15.1	14.5	14.1	13.2	11.9	12.1	12.0	16.1	7.4
28	12.8	12.9	12.6	11.9	10.7	9.7	10.4	12.9	14.3	15.7	16.7	17.8	18.7	19.1	20.2	20.2	20.5	20.5	19.7	19.0	18.6	18.0	16.5	15.7	16.0	20.5	9.7
29	15.1	14.5	13.8	12.8	11.7	10.4	10.4	11.3	12.3	13.5	15.3	16.8	18.3	18.8	19.4	19.8	19.9	19.5	18.0	16.7	15.7	14.8	14.2	13.2	15.3	19.9	10.4
30	12.5	11.6	11.0	10.5	10.1	9.7	10.5	11.9	13.8	16.1	17.9	19.3	20.1	21.2	21.6	21.7	21.8	21.6	20.2	19.0	17.9	16.2	15.1	14.3	16.1	21.8	9.7
Avg	15.2	14.6	13.9	13.2	12.7	12.1	12.2	13.9	15.9	17.2	18.3	19.2	19.8	20.5	21.0	21.2	21.1	20.5	19.4	18.5	17.8	17.0	16.3	15.6	17.0	--	--
Max	20.5	19.8	19.2	18.7	18.6	17.8	18.0	19.6	22.8	23.8	24.5	25.6	26.4	27.0	27.5	27.4	27.1	26.5	25.2	24.4	23.9	22.9	21.8	21.2	--	27.5	--
Min	6.0	5.6	5.3	4.2	3.9	2.9	3.1	5.1	7.5	8.6	9.5	7.1	6.5	8.5	11.4	11.8	11.1	10.8	9.3	8.8	8.3	6.7	6.6	6.6	--	--	2.9

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: May 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	14.1	13.9	13.3	13.1	13.0	12.7	12.8	14.0	15.6	17.4	19.2	20.3	21.6	22.4	23.2	24.0	23.8	23.4	22.5	21.1	20.1	18.3	16.5	15.7	18.0	24.0	12.7
2	17.0	16.7	16.6	15.5	14.0	13.3	15.4	17.5	18.9	20.7	22.3	23.9	24.7	25.5	26.2	26.6	26.1	25.5	24.2	23.0	22.7	22.1	22.1	20.6	20.9	26.6	13.3
3	19.5	19.4	18.8	18.9	18.0	18.5	17.5	20.4	23.1	24.9	26.0	26.8	27.7	28.2	28.5	28.5	28.4	27.9	26.9	25.9	23.8	22.3	22.0	21.4	23.5	28.5	17.5
4	21.3	22.4	22.0	21.5	20.4	18.6	18.7	21.4	23.7	25.1	26.0	27.3	28.1	28.5	28.7	29.0	28.4	27.9	26.8	25.9	25.1	24.3	23.2	22.5	24.5	29.0	18.6
5	21.7	21.6	21.5	20.8	20.5	19.3	20.4	21.3	22.5	23.6	24.6	25.3	25.9	26.7	26.9	26.6	26.1	25.4	24.2	23.1	21.9	20.9	19.9	19.0	22.9	26.9	19.0
6	18.2	17.6	17.2	16.8	16.3	16.1	16.5	17.3	18.6	19.5	20.7	21.1	21.8	22.0	21.9	21.7	20.6	18.3	16.2	15.0	14.2	13.4	12.7	12.6	17.8	22.0	12.6
7	11.8	11.3	11.0	10.2	9.2	8.7	9.2	11.0	12.1	12.8	12.7	13.5	14.4	14.9	15.7	15.2	15.0	14.9	14.1	13.5	13.2	12.3	11.4	11.1	12.5	15.7	8.7
8	10.7	10.5	11.7	12.6	12.1	10.4	10.5	13.3	14.2	15.4	16.6	17.5	18.0	18.9	19.2	19.6	19.4	19.3	18.4	17.6	17.1	16.2	15.1	14.6	15.4	19.6	10.4
9	14.1	13.7	13.0	13.2	13.9	14.2	13.4	16.5	17.8	18.7	19.9	20.4	21.1	21.1	21.2	21.4	21.3	21.1	20.3	19.4	18.6	17.4	16.1	16.0	17.7	21.4	13.0
10	15.8	15.3	15.6	14.8	14.9	14.4	15.1	17.9	19.9	20.7	22.0	22.5	23.5	24.1	24.8	25.6	25.5	25.0	24.3	23.2	21.8	20.7	19.8	19.1	20.3	25.6	14.4
11	18.7	17.6	16.7	15.7	15.0	13.6	13.2	13.5	14.6	15.5	16.6	17.5	18.0	17.5	17.1	17.2	17.0	16.5	15.9	15.1	14.6	14.2	14.0	12.5	15.7	18.7	12.5
12	12.1	12.4	11.2	11.8	11.4	10.5	11.6	13.3	14.7	16.2	18.1	19.3	20.4	21.2	21.4	21.8	21.9	21.2	20.4	19.1	18.4	17.6	16.8	16.3	16.6	21.9	10.5
13	15.3	14.5	13.8	13.2	12.6	12.2	12.6	13.4	14.9	16.6	18.2	19.9	21.0	22.0	22.7	22.7	22.3	21.7	20.4	19.0	18.1	17.5	17.0	16.5	17.4	22.7	12.2
14	16.0	15.5	15.1	14.7	14.5	14.4	15.0	16.4	17.5	18.9	20.1	20.9	22.1	23.3	24.2	25.0	25.0	24.7	23.4	21.5	20.0	19.4	18.8	17.5	19.3	25.0	14.4
15	17.1	16.7	16.0	15.5	14.9	14.5	15.9	18.0	20.0	21.9	24.4	25.7	26.5	27.6	28.6	28.6	28.9	28.6	27.6	26.0	25.2	24.9	22.7	21.9	22.4	28.9	14.5
16	21.3	20.7	20.5	20.4	19.8	19.6	20.3	23.4	25.6	26.3	27.8	28.5	29.2	29.7	29.9	29.9	29.9	29.4	28.3	27.5	27.1	26.5	26.2	26.1	25.6	29.9	19.6
17	25.6	24.8	23.7	22.2	21.0	20.7	21.2	23.0	24.8	26.1	27.3	29.0	29.6	30.2	30.0	30.1	30.1	29.9	28.9	27.8	26.8	24.7	24.5	24.2	26.1	30.2	20.7
18	23.5	22.6	21.9	20.9	20.6	20.0	20.1	22.0	23.9	25.0	26.5	27.8	28.6	28.9	28.7	28.4	28.7	28.6	27.9	26.9	26.0	24.6	25.2	24.0	25.1	28.9	20.0
19	23.4	22.8	22.1	20.7	19.3	18.9	19.7	21.7	22.7	23.9	24.9	25.9	26.8	27.4	28.3	28.4	28.2	28.5	27.4	26.3	25.3	24.3	23.1	22.3	24.3	28.5	18.9
20	21.7	20.8	19.8	19.2	18.9	17.7	19.2	21.0	22.1	23.6	24.8	26.0	26.8	26.7	27.5	27.8	27.5	26.1	25.3	24.3	23.5	22.3	21.0	20.0	23.1	27.8	17.7
21	19.2	19.1	18.6	18.1	17.4	16.9	18.0	19.6	21.2	22.4	23.4	25.0	25.0	25.0	25.1	25.4	25.4	24.6	23.5	22.3	21.5	20.6	19.1	18.5	21.5	25.4	16.9
22	17.9	16.6	15.6	14.7	14.1	14.4	14.9	18.9	21.2	22.4	23.4	24.3	25.2	25.2	25.5	25.3	25.0	24.6	23.2	22.0	20.9	20.0	19.3	18.6	20.6	25.5	14.1
23	18.0	16.9	16.1	15.1	14.4	14.2	13.3	14.9	18.2	19.5	21.0	21.7	22.1	23.2	22.9	23.0	22.8	22.0	21.1	20.2	19.6	19.4	18.5	17.3	19.0	23.2	13.3
24	16.6	16.0	15.8	15.9	14.7	14.9	14.6	15.0	17.0	18.4	20.1	21.2	22.2	22.6	22.8	23.1	22.7	22.0	21.7	21.4	21.2	20.8	19.3	18.7	19.1	23.1	14.6
25	18.4	18.8	18.8	18.0	16.6	16.3	17.5	19.7	20.9	21.6	22.8	23.7	24.5	24.5	24.5	25.3	25.6	25.3	24.6	23.9	23.3	22.7	21.7	22.5	21.7	25.6	16.3
26	22.0	21.7	21.2	20.7	20.4	19.5	19.3	21.1	22.4	24.0	25.3	26.6	27.8	28.7	29.2	29.7	29.3	29.1	28.5	27.7	27.2	26.5	26.3	25.8	25.0	29.7	19.3
27	26.4	24.9	24.4	23.2	23.2	21.4	22.8	24.8	26.8	27.7	29.1	31.0	32.2	32.5	32.5	32.6	32.4	31.7	31.0	30.0	29.2	28.9	28.3	26.7	28.1	32.6	21.4
28	25.3	25.2	24.4	23.1	22.0	21.2	22.4	25.6	26.8	27.8	28.5	29.5	30.0	29.7	31.1	31.9	31.4	31.0	29.8	29.0	28.7	28.3	27.3	26.4	27.4	31.9	21.2
29	25.3	25.2	23.8	24.0	23.3	23.0	22.8	23.4	23.5	24.3	24.4	24.8	24.5	24.6	25.9	27.3	28.0	27.8	26.9	25.3	23.7	23.1	22.7	21.9	24.6	28.0	21.9
30	21.5	21.2	21.4	19.8	19.4	19.5	21.6	25.3	27.4	28.5	29.2	29.8	30.5	31.2	32.0	32.1	31.7	31.3	30.2	29.2	28.7	27.1	25.8	24.6	26.6	32.1	19.4
31	25.0	24.9	24.4	24.3	23.1	22.4	23.3	25.7	28.1	28.4	29.5	31.1	32.4	32.5	32.8	32.5	32.6	32.0	31.3	30.3	29.4	28.6	27.6	26.8	28.3	32.8	22.4
Avg	19.2	18.7	18.3	17.7	17.1	16.5	17.1	19.0	20.7	21.9	23.1	24.1	24.9	25.4	25.8	26.0	25.8	25.3	24.4	23.3	22.5	21.6	20.8	20.1	21.6	--	--
Max	26.4	25.2	24.4	24.3	23.3	23.0	23.3	25.7	28.1	28.5	29.5	31.1	32.4	32.5	32.8	32.6	32.6	32.0	31.3	30.3	29.4	28.9	28.3	26.8	--	32.8	--
Min	10.7	10.5	11.0	10.2	9.2	8.7	9.2	11.0	12.1	12.8	12.7	13.5	14.4	14.9	15.7	15.2	15.0	14.9	14.1	13.5	13.2	12.3	11.4	11.1	--	--	8.7

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Jun 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	26.0	25.2	24.6	23.4	21.5	20.8	22.1	25.0	27.2	27.9	28.8	29.9	30.9	31.3	31.7	31.8	31.5	31.2	30.3	29.4	28.9	27.0	25.5	24.8	27.4	31.8	20.8
2	23.9	24.1	23.6	23.3	22.6	22.2	23.6	27.2	30.0	30.1	31.1	32.0	32.6	33.6	33.7	33.8	33.4	32.7	32.2	30.9	30.4	29.6	29.4	29.2	29.0	33.8	22.2
3	28.2	27.2	25.8	24.1	23.6	23.4	24.1	26.9	29.1	30.3	31.5	31.5	32.2	32.6	32.7	33.3	32.8	32.3	31.7	30.7	29.7	28.4	26.6	26.8	29.0	33.3	23.4
4	26.5	25.8	25.1	24.2	23.3	23.1	24.6	27.2	28.9	29.6	30.5	31.7	32.3	32.6	32.8	32.5	32.6	32.1	31.1	30.0	29.1	27.4	25.5	25.1	28.5	32.8	23.1
5	24.8	24.0	23.6	22.2	21.6	21.6	23.0	25.8	28.6	29.4	30.4	31.5	31.9	32.8	32.7	33.2	32.9	32.4	31.3	30.2	28.7	27.2	25.4	24.6	27.9	33.2	21.6
6	23.5	23.6	23.2	24.7	23.4	20.6	22.4	25.8	27.6	28.3	29.8	30.7	31.1	31.8	32.0	32.1	31.8	31.2	30.5	29.3	28.4	25.8	25.2	24.1	27.4	32.1	20.6
7	23.9	24.4	23.9	24.9	23.7	21.9	22.6	25.3	27.3	28.2	29.4	30.9	30.8	31.3	31.7	31.5	31.8	31.1	30.3	29.3	28.7	28.0	27.3	26.4	27.7	31.8	21.9
8	25.5	25.0	24.9	24.4	23.9	22.8	23.0	25.6	26.7	27.1	28.4	29.4	30.3	30.9	31.3	31.3	31.4	31.0	30.1	29.2	28.6	28.3	28.5	28.5	27.8	31.4	22.8
9	28.2	26.9	25.0	23.1	23.1	23.5	25.7	26.7	28.0	29.8	31.4	32.3	33.4	33.8	34.1	34.0	33.9	33.3	32.2	31.0	30.2	29.8	28.3	26.7	29.3	34.1	23.1
10	25.3	25.7	25.7	25.3	24.4	24.7	24.7	26.0	26.3	28.4	29.4	30.5	31.8	32.5	33.3	33.5	33.1	33.0	32.4	31.5	30.6	29.1	27.8	26.8	28.8	33.5	24.4
11	26.2	25.9	25.2	24.4	23.5	23.0	24.0	24.9	26.1	27.2	28.3	29.0	29.8	30.7	31.2	31.3	31.4	30.4	29.7	28.9	28.1	27.4	26.2	25.4	27.4	31.4	23.0
12	25.5	24.5	23.2	22.2	22.0	21.2	22.8	25.6	27.8	29.0	30.1	31.0	32.1	32.5	32.4	32.8	32.4	32.3	31.4	30.5	29.7	29.4	28.9	27.9	28.2	32.8	21.2
13	27.0	26.4	25.7	24.9	24.5	24.0	24.2	25.2	26.4	27.7	28.6	29.5	30.5	31.7	31.9	32.2	32.2	32.1	31.2	30.3	29.5	28.8	28.2	27.5	28.3	32.2	24.0
14	26.9	26.2	25.6	24.6	23.8	23.2	23.5	24.6	25.3	26.3	27.2	28.3	28.9	30.0	30.0	30.5	30.1	29.6	28.8	27.8	27.0	26.5	26.0	25.6	26.9	30.5	23.2
15	23.9	24.3	23.8	22.9	20.7	20.4	21.8	23.9	25.1	26.6	27.2	28.2	30.1	30.4	30.8	30.3	29.3	28.8	28.0	27.1	26.4	26.0	25.6	25.3	26.1	30.8	20.4
16	24.8	24.3	23.1	23.1	22.2	21.5	23.3	25.2	26.4	27.4	28.4	29.3	30.0	30.1	31.1	30.9	30.7	30.4	29.3	28.5	27.8	27.1	26.5	26.0	27.0	31.1	21.5
17	25.9	25.1	24.4	23.8	23.0	22.7	23.1	24.0	25.3	26.3	27.4	28.0	29.2	29.7	30.5	30.9	30.6	30.2	29.1	28.2	27.3	26.3	25.5	24.5	26.7	30.9	22.7
18	23.7	23.0	22.5	21.7	21.4	21.4	22.1	22.9	24.2	25.7	25.9	26.6	27.9	27.9	28.7	28.7	28.7	28.3	27.4	26.4	25.7	24.9	23.8	22.2	25.1	28.7	21.4
19	22.0	21.4	21.6	20.7	20.3	20.1	21.3	24.4	24.9	26.6	28.1	29.6	30.0	30.4	30.6	31.1	30.5	30.0	29.1	28.3	27.7	26.5	25.9	26.7	26.2	31.1	20.1
20	25.6	24.2	24.5	22.9	22.3	21.8	24.5	28.1	29.0	29.7	30.4	31.9	33.0	33.5	33.9	33.7	33.3	32.6	31.7	30.7	30.0	29.6	29.2	29.1	29.0	33.9	21.8
21	28.5	27.1	26.2	25.4	24.4	23.5	24.1	25.7	26.1	27.3	29.3	30.9	31.9	32.1	32.2	32.4	32.3	32.1	31.4	30.5	30.1	29.3	28.5	27.8	28.7	32.4	23.5
22	26.7	25.9	25.0	24.1	22.7	22.4	23.8	25.7	27.0	28.1	29.3	30.5	31.0	31.4	31.9	32.4	32.4	32.1	31.5	30.4	29.6	28.8	27.8	26.9	28.2	32.4	22.4
23	24.6	25.2	24.2	24.5	23.4	23.2	23.9	24.9	26.0	27.6	29.0	30.1	30.9	31.6	32.0	32.0	32.2	31.9	31.3	30.2	29.4	28.1	26.5	26.0	27.9	32.2	23.2
24	26.4	25.7	24.0	23.2	22.5	22.6	23.3	25.2	26.0	27.4	29.1	29.8	30.4	31.3	31.5	32.0	31.6	31.6	30.8	29.6	28.5	26.6	25.9	24.9	27.5	32.0	22.5
25	25.1	24.8	23.7	24.6	24.3	23.7	23.9	25.4	26.4	28.0	29.1	30.3	30.8	31.7	32.1	32.5	32.8	32.6	32.0	30.9	29.9	29.3	28.0	27.4	28.3	32.8	23.7
26	26.8	26.0	25.1	24.5	24.3	23.3	24.8	25.4	26.4	27.5	28.8	30.2	30.7	31.6	31.9	32.2	31.5	31.7	30.9	29.8	29.1	27.8	26.8	26.0	28.1	32.2	23.3
27	25.0	24.0	23.5	23.0	22.3	21.8	22.5	23.0	23.8	24.9	26.2	27.6	28.9	29.8	30.1	30.5	30.5	30.1	29.3	28.2	27.8	27.6	27.3	26.6	26.4	30.5	21.8
28	26.2	24.7	24.4	23.7	22.7	22.3	23.1	25.5	26.3	27.5	28.5	29.7	30.6	31.3	32.0	32.3	32.4	32.0	31.4	30.4	29.9	29.2	27.4	26.8	27.9	32.4	22.3
29	26.8	26.1	25.4	24.9	24.5	22.9	23.9	26.5	27.1	28.5	29.8	31.0	31.8	32.6	33.1	33.2	32.8	32.8	31.8	31.1	30.6	30.2	29.8	29.3	29.0	33.2	22.9
30	28.4	27.3	26.0	25.4	24.6	23.4	24.8	26.9	27.2	28.8	30.3	30.9	32.2	32.7	33.2	33.3	33.3	33.2	32.4	31.3	30.5	30.0	30.0	29.6	29.4	33.3	23.4
Avg	25.7	25.1	24.4	23.8	23.0	22.4	23.5	25.5	26.7	27.9	29.1	30.1	30.9	31.5	31.9	32.1	31.9	31.5	30.7	29.7	28.9	28.0	27.1	26.5	27.8	--	--
Max	28.5	27.3	26.2	25.4	24.6	24.7	25.7	28.1	30.0	30.3	31.5	32.3	33.4	33.8	34.1	34.0	33.9	33.3	32.4	31.5	30.6	30.2	30.0	29.6	--	34.1	--
Min	22.0	21.4	21.6	20.7	20.3	20.1	21.3	22.9	23.8	24.9	25.9	26.6	27.9	27.9	28.7	28.7	28.7	28.3	27.4	26.4	25.7	24.9	23.8	22.2	--	--	20.1

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Apr 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	59	296	536	743	897	981	994	945	822	652	433	193	18	0	0	0	0	0	315	994	0
2	0	0	0	0	0	0	55	286	533	747	715	848	811	954	824	632	344	219	11	0	0	0	0	0	291	954	0
3	0	0	0	0	0	0	65	298	539	750	902	990	1005	950	826	658	438	200	21	0	0	0	0	0	318	1005	0
4	0	0	0	0	0	0	61	303	552	760	912	995	1011	950	826	556	324	146	16	0	0	0	0	0	309	1011	0
5	0	0	0	0	0	0	27	215	518	746	898	988	998	904	794	608	428	211	22	0	0	0	0	0	307	998	0
6	0	0	0	0	0	0	73	308	546	756	909	994	1005	954	833	664	442	205	22	0	0	0	0	0	321	1005	0
7	0	0	0	0	0	0	83	327	568	776	921	1004	1018	963	842	670	445	206	23	0	0	0	0	0	327	1018	0
8	0	0	0	0	0	0	87	329	567	771	914	994	1014	961	840	669	447	210	22	0	0	0	0	0	326	1014	0
9	0	0	0	0	0	0	84	262	562	779	902	913	886	803	721	637	444	202	21	0	0	0	0	0	301	913	0
10	0	0	0	0	0	0	50	265	461	672	942	1027	1030	985	828	666	436	184	29	0	0	0	0	0	316	1030	0
11	0	0	0	0	0	0	65	199	386	730	937	1011	643	432	696	633	442	218	23	0	0	0	0	0	267	1011	0
12	0	0	0	0	0	0	55	300	543	647	805	913	862	881	730	616	465	219	26	0	0	0	0	0	294	913	0
13	0	0	0	0	0	0	98	338	578	781	929	1011	1020	968	843	673	457	221	29	0	0	0	0	0	331	1020	0
14	0	0	0	0	0	0	115	370	610	820	963	1041	1052	998	877	711	487	239	28	0	0	0	0	0	346	1052	0
15	0	0	0	0	0	0	115	370	616	762	882	949	918	791	838	709	495	231	26	0	0	0	0	0	321	949	0
16	0	0	0	0	0	0	116	362	603	811	955	1034	1046	992	808	606	475	230	28	0	0	0	0	0	336	1046	0
17	0	0	0	0	0	0	111	352	587	792	935	1015	1027	971	848	676	438	177	30	0	0	0	0	0	332	1027	0
18	0	0	0	0	0	0	31	127	281	528	403	339	214	123	130	125	123	51	25	0	0	0	0	0	104	528	0
19	0	0	0	0	0	0	56	151	226	562	266	531	298	795	681	279	358	160	51	0	0	0	0	0	184	795	0
20	0	0	0	0	0	1	121	355	583	777	920	1027	1065	900	859	699	458	226	32	0	0	0	0	0	334	1065	0
21	0	0	0	0	0	1	123	359	589	786	926	1007	1026	969	846	679	464	231	32	0	0	0	0	0	335	1026	0
22	0	0	0	0	0	3	123	368	549	794	935	1006	981	963	819	591	418	159	29	0	0	0	0	0	322	1006	0
23	0	0	0	0	0	2	131	373	613	812	952	1036	1049	998	870	698	481	242	36	0	0	0	0	0	346	1049	0
24	0	0	0	0	0	2	144	391	631	828	956	1036	1012	941	838	708	475	246	37	0	0	0	0	0	344	1036	0
25	0	0	0	0	0	3	123	351	569	701	913	1025	1046	961	758	625	405	183	41	0	0	0	0	0	321	1046	0
26	0	0	0	0	0	2	45	39	62	111	178	45	179	780	880	676	458	234	44	0	0	0	0	0	156	880	0
27	0	0	0	0	0	3	130	376	611	808	909	1029	1028	969	861	697	433	252	39	0	0	0	0	0	339	1029	0
28	0	0	0	0	0	5	160	398	632	825	959	1034	1045	990	868	697	484	251	40	0	0	0	0	0	350	1045	0
29	0	0	0	0	0	7	180	429	669	867	998	1074	1083	1027	901	725	507	267	44	0	0	0	0	0	366	1083	0
30	0	0	0	0	0	7	174	423	659	854	991	1066	1070	1010	885	711	499	263	47	0	0	0	0	0	361	1070	0
Avg	0	0	0	0	0	1	95	311	533	737	854	932	914	894	800	631	433	209	30	0	0	0	0	0	307	--	--
Max	0	0	0	0	0	7	180	429	669	867	998	1074	1083	1027	901	725	507	267	51	0	0	0	0	0	--	1083	--
Min	0	0	0	0	0	0	27	39	62	111	178	45	179	123	130	125	123	51	11	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: May 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	5	128	354	597	803	945	1016	1026	963	858	694	485	250	47	0	0	0	0	0	340	1026	0
2	0	0	0	0	0	8	175	416	647	837	967	1040	1044	993	879	704	496	259	47	0	0	0	0	0	355	1044	0
3	0	0	0	0	0	10	174	411	642	831	963	1039	1044	988	879	708	499	265	46	0	0	0	0	0	354	1044	0
4	0	0	0	0	0	9	172	415	646	839	975	1046	1053	990	877	703	492	259	48	0	0	0	0	0	355	1053	0
5	0	0	0	0	0	8	180	426	646	857	947	1036	1050	987	873	705	484	256	57	0	0	0	0	0	355	1050	0
6	0	0	0	0	0	12	183	425	654	846	979	1054	979	873	614	398	253	98	28	4	0	0	0	0	308	1054	0
7	0	0	0	0	0	9	152	332	608	783	973	1032	1059	1003	917	523	408	219	58	0	0	0	0	0	336	1059	0
8	0	0	0	0	0	12	174	409	649	844	972	1067	1051	994	789	716	508	270	57	0	0	0	0	0	355	1067	0
9	0	0	0	0	0	13	182	419	645	833	931	917	835	733	605	592	457	269	55	0	0	0	0	0	312	931	0
10	0	0	0	0	0	15	188	423	649	834	964	1034	1040	981	874	706	506	275	62	1	0	0	0	0	356	1040	0
11	0	0	0	0	0	15	168	368	594	779	914	1016	1039	1001	897	727	526	288	66	1	0	0	0	0	350	1039	0
12	0	0	0	0	0	18	201	446	675	860	987	1060	1064	1006	895	723	514	282	68	1	0	0	0	0	367	1064	0
13	0	0	0	0	0	19	211	461	690	878	1013	1083	1088	1028	916	749	542	302	71	1	0	0	0	0	377	1088	0
14	0	0	0	0	0	19	203	446	670	857	992	1059	1075	1011	892	727	525	284	69	1	0	0	0	0	368	1075	0
15	0	0	0	0	0	19	201	444	672	856	988	1062	1066	1005	894	722	518	281	68	1	0	0	0	0	367	1066	0
16	0	0	0	0	0	20	203	439	660	850	980	1051	1064	1007	897	730	521	313	53	1	0	0	0	0	366	1064	0
17	0	0	0	0	0	20	174	435	658	842	973	1043	1057	992	831	629	526	302	73	1	0	0	0	0	356	1057	0
18	0	0	0	0	0	18	201	362	477	740	863	1005	1042	732	516	340	359	269	72	3	0	0	0	0	292	1042	0
19	0	0	0	0	0	17	221	463	682	868	1004	1070	1084	1023	907	661	418	352	80	1	0	0	0	0	369	1084	0
20	0	0	0	0	0	24	215	455	676	860	990	1090	1080	776	765	692	488	152	63	2	0	0	0	0	347	1090	0
21	0	0	0	0	0	11	203	448	669	856	991	1106	1055	1013	903	727	533	300	81	2	0	0	0	0	371	1106	0
22	0	0	0	0	0	31	150	448	678	856	992	1060	1026	946	852	739	546	324	81	3	0	0	0	0	364	1060	0
23	0	0	0	0	0	4	66	326	658	864	991	1066	1037	1019	905	737	541	305	87	4	0	0	0	0	359	1066	0
24	0	0	0	0	0	21	70	141	676	855	977	1061	1042	1042	823	631	373	162	60	2	0	0	0	0	331	1061	0
25	0	0	0	0	0	14	187	429	677	795	964	1000	949	691	474	686	522	316	73	3	0	0	0	0	324	1000	0
26	0	0	0	0	0	26	205	435	652	833	962	1036	1037	966	871	705	510	281	78	2	0	0	0	0	358	1037	0
27	0	0	0	0	0	28	204	430	639	828	959	1032	1042	983	876	711	518	280	87	1	0	0	0	0	359	1042	0
28	0	0	0	0	0	31	238	447	525	860	630	821	658	611	927	734	482	286	51	1	0	0	0	0	304	927	0
29	0	0	0	0	0	13	97	211	235	138	157	303	313	419	573	574	503	249	117	3	0	0	0	0	163	574	0
30	0	0	0	0	0	32	216	443	657	833	940	1034	1044	987	880	724	538	310	92	2	0	0	0	0	364	1044	0
31	0	0	0	0	0	31	210	360	567	795	949	1037	1044	992	889	728	535	307	91	3	0	0	0	0	356	1044	0
Avg	0	0	0	0	0	17	179	402	628	813	930	1012	1003	927	824	672	488	270	67	1	0	0	0	0	343	--	--
Max	0	0	0	0	0	32	238	463	690	878	1013	1106	1088	1042	927	749	546	352	117	4	0	0	0	0	--	1106	--
Min	0	0	0	0	0	4	66	141	235	138	157	303	313	419	474	340	253	98	28	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Jun 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	35	224	456	674	854	983	1057	1065	1008	893	739	526	318	85	5	0	0	0	0	372	1065	0
2	0	0	0	0	0	37	231	464	676	780	916	973	970	950	772	626	423	231	101	4	0	0	0	0	340	973	0
3	0	0	0	0	0	32	236	403	677	866	959	748	1045	880	789	753	517	265	120	7	0	0	0	0	346	1045	0
4	0	0	0	0	0	40	234	468	690	871	1001	1073	1083	1025	915	756	565	329	104	2	0	0	0	0	381	1083	0
5	0	0	0	0	0	36	233	468	684	868	1001	1076	1087	1027	919	754	563	329	103	2	0	0	0	0	381	1087	0
6	0	0	0	0	0	38	235	473	696	882	1011	1081	1096	1038	928	759	564	331	106	3	0	0	0	0	385	1096	0
7	0	0	0	0	0	36	230	464	682	868	996	1068	1079	1024	917	755	564	328	107	3	0	0	0	0	380	1079	0
8	0	0	0	0	0	34	215	440	655	828	966	1034	1044	986	879	723	537	312	104	4	0	0	0	0	365	1044	0
9	0	0	0	0	0	34	224	458	677	857	989	1056	1066	1011	898	741	550	325	109	4	0	0	0	0	375	1066	0
10	0	0	0	0	0	33	214	438	652	826	947	1007	965	979	883	721	526	309	108	4	0	0	0	0	359	1007	0
11	0	0	0	0	0	33	215	296	652	828	935	1024	1035	977	886	726	535	245	89	6	0	0	0	0	353	1035	0
12	0	0	0	0	0	34	216	436	656	831	963	1033	1046	1000	836	729	520	316	109	4	0	0	0	0	364	1046	0
13	0	0	0	0	0	39	197	439	649	816	952	1020	1030	974	872	719	536	315	111	5	0	0	0	0	361	1030	0
14	0	0	0	0	0	31	209	443	667	852	981	1052	1058	1005	906	749	564	337	120	4	0	0	0	0	374	1058	0
15	0	0	0	0	0	37	225	450	686	771	720	792	1013	909	882	537	310	262	67	8	0	0	0	0	319	1013	0
16	0	0	0	0	0	36	221	450	662	842	967	1036	1043	760	925	731	545	296	88	5	0	0	0	0	359	1043	0
17	0	0	0	0	0	30	206	415	653	837	904	1007	1041	958	884	772	498	314	66	4	0	0	0	0	358	1041	0
18	0	0	0	0	0	20	196	387	645	841	930	845	1045	859	768	575	568	318	117	5	0	0	0	0	338	1045	0
19	0	0	0	0	0	35	217	446	665	840	965	1039	1060	1006	907	750	560	324	120	4	0	0	0	0	372	1060	0
20	0	0	0	0	0	33	211	435	651	833	962	1037	1054	1004	902	746	553	320	108	5	0	0	0	0	369	1054	0
21	0	0	0	0	0	30	210	435	651	827	955	1023	1037	999	897	743	553	321	118	4	0	0	0	0	367	1037	0
22	0	0	0	0	0	31	209	438	654	832	968	1043	1053	1001	899	750	560	327	121	4	0	0	0	0	370	1053	0
23	0	0	0	0	0	33	217	446	660	844	974	1052	1067	1018	914	756	562	326	121	5	0	0	0	0	375	1067	0
24	0	0	0	0	0	31	218	459	682	860	991	1068	936	1008	883	770	526	346	124	4	0	0	0	0	371	1068	0
25	0	0	0	0	0	28	212	446	671	858	989	1064	1077	1023	913	754	562	330	122	4	0	0	0	0	377	1077	0
26	0	0	0	0	0	32	222	451	665	843	977	1028	1071	983	850	604	250	266	102	8	0	0	0	0	348	1071	0
27	0	0	0	0	0	30	208	435	646	825	957	1034	1051	1002	902	748	557	327	123	5	0	0	0	0	369	1051	0
28	0	0	0	0	0	27	198	422	643	818	950	1027	1043	996	900	750	562	326	121	5	0	0	0	0	366	1043	0
29	0	0	0	0	0	28	195	406	622	804	937	1008	1024	980	881	734	548	322	118	5	0	0	0	0	359	1024	0
30	0	0	0	0	0	28	202	425	639	813	945	1027	1049	1004	904	752	562	333	125	4	0	0	0	0	367	1049	0
Avg	0	0	0	0	0	33	216	436	663	837	956	1014	1044	980	884	724	526	312	108	5	0	0	0	0	364	--	--
Max	0	0	0	0	0	40	236	473	696	882	1011	1081	1096	1038	928	772	568	346	125	8	0	0	0	0	--	1096	--
Min	0	0	0	0	0	20	195	296	622	771	720	748	936	760	768	537	250	231	66	2	0	0	0	0	--	--	0

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

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	10	9	16	18	20	20	21	21	20	18	15	13	12	11	14	13	12	13	16	19	24	30	39	44	19	44	9
2	47	48	52	58	58	56	52	48	41	37	40	35	33	28	25	25	30	31	41	44	43	49	47	44	42	58	25
3	43	43	44	49	50	55	53	43	37	33	31	29	27	26	25	24	22	21	23	24	26	29	31	32	34	55	21
4	33	35	37	39	40	40	39	29	26	20	14	12	11	10	10	11	12	11	13	15	16	16	17	19	22	40	10
5	15	14	15	20	26	27	30	28	23	21	17	17	15	15	14	14	14	15	16	19	19	19	21	21	19	30	14
6	22	22	25	29	30	31	34	31	26	24	22	20	19	18	17	17	17	16	16	17	17	17	16	19	22	34	16
7	21	20	23	25	26	27	24	21	20	19	17	15	13	12	10	9	10	12	14	15	15	17	18	21	18	27	9
8	20	18	18	18	16	19	19	15	13	12	10	8	8	7	7	7	7	7	8	8	9	10	12	12	12	20	7
9	12	13	12	15	16	16	18	18	14	9	8	6	6	6	5	5	5	6	7	8	9	10	10	10	10	18	5
10	12	12	13	12	14	13	12	15	13	10	7	6	5	4	3	3	3	4	5	7	8	8	8	9	9	15	3
11	8	8	10	10	10	10	10	13	11	6	5	4	4	5	6	7	7	7	8	10	9	7	8	8	8	13	4
12	8	8	10	10	10	11	13	13	13	13	14	13	14	10	11	13	13	12	12	13	14	13	13	16	12	16	8
13	19	22	25	26	26	29	27	23	19	17	16	16	16	16	17	18	17	18	20	23	24	25	27	28	21	29	16
14	28	15	15	16	18	21	21	23	23	20	18	17	14	11	10	8	7	6	7	7	8	7	7	7	14	28	6
15	8	9	10	10	11	18	19	18	17	16	15	10	9	7	7	6	4	5	7	8	9	11	12	13	11	19	4
16	12	9	10	11	10	13	12	14	10	9	7	6	6	6	6	6	6	6	7	8	8	8	9	9	9	14	6
17	11	13	15	16	15	18	18	16	12	12	11	11	11	10	9	9	9	9	10	11	12	13	14	14	12	18	9
18	16	16	18	22	24	26	29	30	31	27	30	28	27	24	26	32	33	34	35	38	42	42	43	45	30	45	16
19	46	46	48	50	53	54	51	49	46	40	40	38	38	33	29	29	27	30	34	36	36	37	40	40	40	54	27
20	45	49	52	54	54	54	51	43	36	33	32	28	26	26	24	22	21	20	21	22	24	25	25	25	34	54	20
21	25	28	29	31	32	32	33	26	22	20	19	17	16	16	14	14	13	14	16	17	18	19	21	21	21	33	13
22	21	22	23	25	25	29	28	24	20	19	17	17	16	16	15	14	13	14	13	14	16	19	20	21	19	29	13
23	22	25	27	29	31	33	33	31	31	26	23	18	12	9	9	9	9	10	10	10	10	11	12	13	19	33	9
24	11	13	14	14	15	14	14	12	10	10	8	8	7	7	7	7	7	7	8	9	10	11	12	13	10	15	7
25	13	14	14	15	15	16	16	16	14	15	14	13	10	10	11	10	9	10	11	13	17	17	18	20	14	20	9
26	22	22	24	25	27	35	45	48	55	62	66	93	93	75	43	31	26	28	33	34	37	40	42	44	44	93	22
27	45	45	43	46	47	47	47	40	36	34	32	29	27	26	24	23	22	21	23	25	26	29	34	33	33	47	21
28	31	31	31	33	36	40	37	29	26	26	23	22	21	20	19	18	18	17	18	19	20	21	24	19	25	40	17
29	13	12	13	13	14	15	14	14	12	11	9	8	6	6	6	6	6	6	7	8	8	7	7	9	10	15	6
30	11	13	14	16	18	18	17	16	15	12	9	8	8	8	8	8	8	8	9	9	9	12	14	17	12	18	8
Avg	22	22	23	25	26	28	28	26	23	21	20	19	18	16	14	14	14	14	16	17	18	19	21	22	20	--	--
Max	47	49	52	58	58	56	53	49	55	62	66	93	93	75	43	32	33	34	41	44	43	49	47	45	--	93	--
Min	8	8	10	10	10	10	10	12	10	6	5	4	4	4	3	3	3	4	5	7	8	7	7	7	--	--	3

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, RH_Percent"
Month: May 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	17	18	21	25	27	28	27	26	23	20	18	16	14	13	11	8	8	9	10	10	7	7	9	9	16	28	7
2	8	8	8	10	12	19	16	16	17	14	12	10	10	8	7	6	7	8	8	10	10	11	10	12	11	19	6
3	12	12	11	11	11	11	13	12	10	8	7	6	6	6	6	5	5	6	6	7	9	10	10	10	9	13	5
4	10	9	9	9	10	12	12	11	8	7	6	6	5	6	5	5	6	6	6	7	7	7	8	8	8	12	5
5	9	9	9	9	9	11	15	13	14	12	10	9	9	7	7	7	7	7	8	8	9	10	11	13	10	15	7
6	14	16	17	18	18	19	19	18	16	14	12	11	11	11	9	9	16	26	33	36	36	30	31	33	20	36	9
7	33	33	32	35	39	41	37	30	28	35	33	28	21	20	23	26	28	30	32	34	35	37	39	40	32	41	20
8	41	42	39	36	37	41	39	33	30	29	27	24	22	21	20	19	20	21	22	24	25	26	29	30	29	42	19
9	31	32	33	33	31	30	30	25	20	20	18	18	16	16	16	16	16	16	17	19	21	23	25	25	23	33	16
10	26	27	26	28	28	29	27	22	19	19	18	18	19	18	15	13	13	14	14	16	18	18	21	23	20	29	13
11	23	26	30	36	40	46	49	41	31	25	22	16	16	15	15	15	11	11	13	14	14	14	15	18	23	49	11
12	22	26	29	28	28	30	28	26	24	21	19	16	12	11	11	11	11	12	12	14	14	15	12	11	18	30	11
13	11	14	13	16	17	18	19	20	18	17	15	12	10	9	7	6	6	6	5	5	5	6	6	8	11	20	5
14	8	10	14	20	21	20	19	18	17	15	13	13	12	11	10	8	8	8	9	11	12	13	13	14	13	21	8
15	15	15	15	16	16	17	16	14	12	11	9	8	8	7	7	6	6	6	7	8	9	10	11	12	11	17	6
16	12	12	11	12	13	13	13	11	9	8	7	6	6	6	6	5	5	5	6	6	6	7	7	7	8	13	5
17	7	7	7	8	9	10	10	9	7	7	6	5	5	4	4	4	4	4	4	5	5	7	7	5	6	10	4
18	4	4	5	5	6	6	6	7	6	6	6	5	5	5	6	6	6	5	6	7	8	9	7	7	6	9	4
19	5	6	6	6	7	8	8	8	8	8	8	9	7	6	6	5	5	5	4	4	5	6	8	11	7	11	4
20	11	13	16	15	14	16	16	14	12	11	9	8	8	7	6	7	6	5	6	8	9	10	11	11	10	16	5
21	11	12	13	14	16	17	16	14	12	11	10	9	9	9	7	6	6	7	9	12	14	14	15	14	11	17	6
22	14	16	17	18	19	19	19	13	12	12	9	9	9	9	8	8	8	6	6	6	7	8	10	12	11	19	6
23	13	16	17	18	19	20	21	19	14	13	12	12	12	10	10	10	11	12	13	15	17	20	25	29	16	29	10
24	32	35	36	34	37	38	39	39	30	27	23	21	18	18	16	15	15	17	18	18	18	19	21	22	25	39	15
25	22	23	26	32	34	35	32	28	24	23	21	20	20	20	20	18	18	18	18	19	21	23	24	23	23	35	18
26	23	23	25	27	29	30	28	25	24	23	21	19	18	17	16	15	15	15	15	16	17	17	18	19	21	30	15
27	17	19	19	21	21	24	21	19	16	16	15	13	12	12	12	12	11	11	11	12	13	13	14	15	15	24	11
28	16	16	16	17	19	19	18	14	12	11	11	10	10	10	9	9	9	9	10	10	11	11	12	13	13	19	9
29	13	10	12	12	14	15	16	17	17	17	20	25	26	26	24	22	21	21	22	24	27	27	28	29	20	29	10
30	30	30	30	33	34	34	30	24	22	19	18	16	15	14	13	12	11	11	13	14	14	15	16	18	20	34	11
31	18	18	18	18	19	20	19	16	14	13	13	11	11	11	11	11	10	11	12	14	15	13	13	14	14	20	10
Avg	17	18	19	20	21	22	22	19	17	16	14	13	12	12	11	11	11	11	12	13	14	15	16	17	16	--	--
Max	41	42	39	36	40	46	49	41	31	35	33	28	26	26	24	26	28	30	33	36	36	37	39	40	--	49	--
Min	4	4	5	5	6	6	6	7	6	6	6	5	5	4	4	4	4	4	4	4	5	6	6	5	--	--	4

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, RH_Percent"
Month: Jun 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	13	13	15	16	18	17	13	9	9	9	9	8	8	7	8	8	8	9	9	9	10	12	12	11	18	7
2	13	12	12	12	12	12	12	10	7	7	6	6	6	5	5	5	6	6	6	7	7	7	8	8	8	13	5
3	9	10	10	12	12	12	11	10	9	9	9	9	9	9	8	7	7	7	7	7	8	9	10	9	9	12	7
4	8	8	7	7	7	6	5	4	2	2	2	4	5	4	4	4	3	4	4	5	5	6	7	7	5	8	2
5	7	7	7	7	7	6	6	5	4	4	3	3	3	3	2	2	2	3	3	3	4	4	5	5	4	7	2
6	5	5	5	4	5	6	6	4	4	4	3	3	2	3	3	3	4	3	4	5	5	7	7	8	4	8	2
7	8	7	7	6	7	7	7	6	6	6	5	6	6	6	5	4	4	4	5	5	6	6	6	8	6	8	4
8	12	12	11	11	12	13	13	11	12	16	17	16	16	16	15	15	14	14	13	13	13	13	12	11	13	17	11
9	10	11	13	14	13	9	9	9	8	7	6	5	5	5	5	5	5	4	5	6	6	7	9	10	8	14	4
10	11	11	11	13	17	23	19	19	23	22	20	19	18	14	12	12	14	14	11	6	7	11	15	17	15	23	6
11	19	24	27	26	27	27	24	20	20	22	20	20	20	19	18	15	10	9	10	12	13	13	14	14	19	27	9
12	14	13	15	17	17	19	17	15	12	11	10	9	8	8	9	9	10	11	13	15	17	17	18	23	14	23	8
13	29	30	32	34	35	36	32	29	25	24	22	21	20	19	18	17	17	17	18	18	19	20	18	15	24	36	15
14	14	14	16	17	16	19	25	26	24	23	21	17	15	12	10	8	7	6	6	4	3	3	3	3	13	26	3
15	4	4	5	5	7	9	9	16	16	13	11	8	8	7	5	5	7	7	7	9	10	11	13	15	9	16	4
16	14	13	11	8	9	11	11	10	10	10	9	9	9	10	9	10	10	11	13	12	10	8	8	8	10	14	8
17	9	18	23	22	23	24	24	23	22	20	19	18	14	14	14	14	15	16	18	21	24	25	26	25	20	26	9
18	24	25	26	28	29	30	31	29	28	26	27	25	21	20	18	18	17	18	19	19	19	18	19	21	23	31	17
19	20	20	19	19	19	19	17	14	13	13	16	15	14	12	12	12	14	14	15	16	17	18	19	17	16	20	12
20	18	20	20	22	23	23	19	14	13	13	12	11	10	10	9	10	11	11	12	13	13	13	13	14	15	23	9
21	15	17	20	21	23	23	21	19	19	18	16	14	13	13	13	13	14	14	14	15	15	16	16	18	17	23	13
22	19	20	19	19	21	21	17	14	12	10	7	6	6	8	8	8	8	8	8	7	7	8	9	9	12	21	6
23	11	9	9	7	9	9	9	10	9	8	7	6	5	4	6	6	7	8	7	6	5	5	6	6	7	11	4
24	9	11	12	13	13	12	11	10	9	7	7	6	6	6	6	6	7	7	7	8	9	10	11	11	9	13	6
25	11	11	12	16	17	19	20	20	18	8	7	6	7	7	10	11	10	9	9	8	11	10	12	13	12	20	6
26	13	16	22	11	10	15	15	16	17	18	15	15	16	15	14	10	8	7	11	13	13	15	17	18	14	22	7
27	19	21	23	25	26	25	23	23	23	22	19	16	14	14	15	15	15	16	16	17	17	17	18	19	19	26	14
28	20	22	23	24	26	26	24	20	19	18	18	17	17	16	15	14	13	14	16	17	17	18	20	21	19	26	13
29	22	24	27	28	29	32	28	29	33	30	28	26	24	22	21	21	21	20	24	20	17	18	22	25	25	33	17
30	24	23	29	32	36	38	33	28	29	28	22	18	15	14	15	15	14	13	11	12	14	16	15	15	21	38	11
Avg	14	15	16	17	17	18	17	16	15	14	13	12	11	11	10	10	10	10	11	11	11	12	13	14	13	--	--
Max	29	30	32	34	36	38	33	29	33	30	28	26	24	22	21	21	21	20	24	21	24	25	26	25	--	38	--
Min	4	4	5	4	5	6	5	4	2	2	2	3	2	3	2	2	2	3	3	3	3	3	3	3	--	--	2

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

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Max	Min
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0.024	0.11	0.107	0	0	0	0	0	0	0	0	0	0	0	0.241	0.11	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0.024	0.11	0.107	0	0	0	0	0	0	0	0	0	0	0	0.241	--	--
Max	0	0	0	0	0	0	0	0	0	0	0.024	0.11	0.107	0	0	0	0	0	0	0	0	0	0	0	--	0.11	--
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: May 2014

Hour of day

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

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

Hour of day

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

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

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

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

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Apr 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	1.3	0.9	1.4	0.8	1.1	1.0	1.0	0.6	1.1	2.6	4.8	4.9	6.0	6.1	5.8	6.1	5.3	5.0	3.9	2.2	0.6	0.2	0.5	1.0	2.7	6.1	0.2
2	0.8	0.9	0.8	1.0	1.3	2.0	1.0	0.8	1.9	2.9	6.1	6.0	5.7	6.8	7.8	7.0	6.7	6.7	6.2	5.7	6.5	3.7	0.8	1.8	3.8	7.8	0.8
3	0.6	0.5	0.3	0.9	0.6	1.7	0.7	0.5	0.8	1.8	2.4	3.2	3.0	3.9	4.0	3.7	3.8	3.9	3.1	0.9	0.6	0.4	0.4	0.4	1.8	4.0	0.3
4	0.4	1.4	1.3	0.7	1.1	0.7	1.4	0.5	2.4	4.2	2.7	3.5	2.6	2.8	4.2	4.7	4.3	3.7	3.3	1.0	0.6	0.3	0.9	1.8	2.1	4.7	0.3
5	0.8	0.8	1.5	0.7	1.1	0.6	1.3	1.4	1.1	1.5	1.9	3.2	3.9	4.1	4.6	4.4	4.7	4.8	4.0	2.1	2.2	2.0	1.1	0.4	2.3	4.8	0.4
6	0.6	0.6	0.3	1.2	1.5	0.5	1.4	1.1	0.9	1.3	2.0	3.0	4.2	4.2	4.8	5.9	5.6	5.6	3.8	1.3	1.0	0.8	1.3	1.5	2.3	5.9	0.3
7	2.7	2.9	4.1	4.0	2.3	2.2	1.4	0.9	1.6	2.5	3.8	3.7	3.2	3.8	3.1	3.1	3.6	4.6	2.3	0.7	1.1	0.7	1.0	1.5	2.5	4.6	0.7
8	0.7	1.0	0.7	2.0	1.5	1.3	1.7	1.0	0.6	2.1	1.3	2.5	2.6	2.6	3.6	3.2	3.4	4.3	3.3	0.6	0.8	0.7	0.6	1.3	1.8	4.3	0.6
9	0.8	1.5	3.1	4.7	7.3	5.2	4.7	2.2	1.5	1.5	1.2	2.2	2.9	3.3	3.4	3.3	4.4	4.2	2.8	1.1	0.9	0.3	0.4	0.8	2.7	7.3	0.3
10	1.0	0.4	1.4	1.6	0.8	1.2	2.2	1.3	0.8	1.1	1.9	2.2	2.4	3.9	4.7	5.0	4.2	3.6	1.9	1.9	2.2	1.7	0.5	0.4	2.0	5.0	0.4
11	1.3	0.8	0.9	1.4	2.4	3.4	1.9	1.4	2.7	3.6	3.1	2.4	3.4	2.6	3.4	4.1	3.3	1.5	1.0	1.6	1.6	1.6	1.3	0.8	2.1	4.1	0.8
12	1.1	1.4	1.6	1.6	1.4	1.2	1.3	1.0	1.4	4.7	5.3	5.4	5.5	6.0	5.6	5.3	5.0	4.8	3.8	1.6	0.8	0.7	1.2	1.1	2.9	6.0	0.7
13	1.5	0.8	0.6	0.9	1.2	1.8	1.5	1.2	1.2	3.1	3.7	4.5	5.4	5.6	6.4	7.1	7.2	7.5	7.0	3.8	1.4	1.0	1.1	1.2	3.2	7.5	0.6
14	1.4	7.9	9.0	9.5	8.4	9.2	10.5	9.8	8.4	6.3	6.3	4.6	4.4	3.2	3.0	3.0	3.0	3.5	2.6	3.6	2.3	4.3	2.2	2.0	5.4	10.5	1.4
15	1.2	1.5	1.0	2.3	8.5	6.3	8.4	7.0	7.9	8.1	5.8	4.0	3.3	1.9	2.8	2.7	1.3	2.8	3.6	0.6	0.6	0.8	0.4	0.8	3.5	8.5	0.4
16	0.4	0.4	0.8	1.4	0.6	0.8	2.0	2.0	1.6	1.9	2.3	3.8	3.9	4.8	4.6	5.0	4.9	4.9	3.3	1.1	0.8	0.5	0.7	0.4	2.2	5.0	0.4
17	1.4	1.5	0.9	1.6	1.8	2.4	3.7	4.0	1.7	1.4	1.7	2.5	2.7	2.5	3.4	3.2	3.0	3.7	2.8	1.5	1.3	1.4	1.7	2.5	2.3	4.0	0.9
18	2.7	2.5	1.3	0.4	0.5	1.1	1.0	1.3	0.8	1.9	4.3	5.1	5.0	3.8	6.5	3.8	4.2	6.0	5.1	7.1	7.4	6.9	5.7	4.0	3.7	7.4	0.4
19	2.7	4.2	4.5	3.8	4.4	4.3	2.8	2.0	1.0	1.2	1.3	4.4	2.6	3.0	2.2	2.6	2.8	1.7	2.5	2.6	1.0	1.8	3.1	1.3	2.7	4.5	1.0
20	1.2	1.7	0.7	1.9	3.2	1.0	0.7	1.2	1.2	1.3	1.9	3.0	3.5	4.3	3.5	3.8	4.0	3.4	3.7	1.6	0.6	1.2	0.9	0.8	2.1	4.3	0.6
21	0.8	0.5	1.0	0.9	0.5	3.3	5.3	2.1	1.0	1.5	2.1	2.9	3.7	3.3	3.4	4.0	3.4	3.7	3.6	1.7	0.7	0.9	1.2	1.2	2.2	5.3	0.5
22	0.9	0.9	0.7	1.6	1.1	1.2	2.2	3.0	1.4	1.5	1.9	3.5	4.4	6.3	6.7	6.3	6.7	6.1	5.9	5.7	3.9	3.1	2.4	1.0	3.3	6.7	0.7
23	1.2	1.2	0.9	0.7	0.5	0.7	0.9	1.8	3.6	4.5	4.5	4.9	5.1	6.2	6.7	5.7	5.7	4.6	4.2	1.4	1.0	0.5	1.4	1.5	2.9	6.7	0.5
24	0.6	1.4	1.1	1.8	1.4	2.6	3.8	2.5	1.4	2.7	3.3	3.1	2.6	3.4	3.9	5.0	3.9	3.9	3.6	1.6	1.0	0.5	0.3	0.9	2.3	5.0	0.3
25	1.4	1.4	1.6	1.9	1.6	2.4	1.2	3.0	2.3	3.3	3.5	4.8	4.7	5.4	5.8	6.2	7.4	6.5	6.2	6.3	4.5	4.6	4.2	3.9	3.9	7.4	1.2
26	2.5	2.3	1.0	1.1	0.8	1.5	3.9	6.5	5.6	6.1	8.7	3.9	3.4	2.3	8.3	8.5	9.0	7.2	4.7	3.1	1.4	1.0	0.6	1.0	3.9	9.0	0.6
27	0.9	0.8	0.6	0.7	0.9	0.8	1.4	0.9	1.1	2.1	3.2	3.8	3.7	4.2	4.7	4.7	4.0	4.4	3.6	1.6	0.9	1.1	1.4	1.6	2.2	4.7	0.6
28	0.8	0.7	0.5	1.0	1.6	1.8	1.4	2.1	1.0	1.9	3.6	3.7	5.2	4.5	5.7	5.0	5.7	4.0	4.4	0.7	0.9	1.1	1.9	6.7	2.7	6.7	0.5
29	8.5	10.9	11.8	11.5	11.3	12.9	11.1	11.3	11.9	11.0	7.5	4.0	4.4	4.4	5.0	4.0	3.1	3.6	3.9	3.1	3.5	5.0	3.3	4.4	7.2	12.9	3.1
30	4.0	4.5	4.7	5.7	9.2	12.2	10.4	9.4	8.9	6.9	6.1	6.0	4.4	4.7	3.8	3.0	2.7	3.5	3.0	3.3	7.8	10.5	12.1	12.7	6.6	12.7	2.7
Avg	1.5	1.9	2.0	2.3	2.7	2.9	3.1	2.8	2.6	3.2	3.6	3.8	3.9	4.1	4.7	4.6	4.5	4.5	3.8	2.4	2.0	2.0	1.8	2.0	3.0	--	--
Max	8.5	10.9	11.8	11.5	11.3	12.9	11.1	11.3	11.9	11.0	8.7	6.0	6.0	6.8	8.3	8.5	9.0	7.5	7.0	7.1	7.8	10.5	12.1	12.7	--	12.9	--
Min	0.4	0.4	0.3	0.4	0.5	0.5	0.7	0.5	0.6	1.1	1.2	2.2	2.4	1.9	2.2	2.6	1.3	1.5	1.0	0.6	0.6	0.2	0.3	0.4	--	--	0.2

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: May 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	12.4	10.7	7.9	7.1	6.2	6.7	6.6	3.5	6.1	8.6	3.5	4.0	3.2	2.9	2.2	3.2	3.4	2.6	2.5	2.1	2.8	3.8	3.7	2.9	4.9	12.4	2.1
2	2.0	1.2	1.5	2.2	3.7	3.1	4.0	3.1	3.2	2.7	3.4	3.5	2.8	3.1	2.8	2.9	4.1	4.2	4.4	1.4	1.2	0.7	0.5	1.6	2.6	4.4	0.5
3	0.6	1.3	0.5	0.6	0.7	0.8	0.7	5.6	2.8	1.6	1.7	2.3	2.9	3.1	3.9	4.3	3.6	3.2	2.8	1.3	1.7	0.7	0.5	0.2	2.0	5.6	0.2
4	1.0	1.6	0.8	0.7	1.1	2.9	4.2	1.6	1.9	2.7	3.0	4.9	5.4	5.9	4.9	5.7	5.4	5.0	4.2	1.6	0.5	0.6	0.5	1.1	2.8	5.9	0.5
5	0.7	1.7	1.4	0.8	1.4	1.1	2.2	1.4	3.6	5.1	5.2	6.3	6.0	6.8	6.9	5.9	6.4	6.6	5.1	5.0	5.0	3.2	0.9	0.7	3.7	6.9	0.7
6	0.6	0.7	0.9	0.4	1.0	1.5	1.3	3.0	5.5	5.6	5.4	5.7	6.2	6.9	6.5	7.0	6.9	6.1	5.3	4.1	2.5	1.8	0.9	1.1	3.6	7.0	0.4
7	1.6	0.7	0.7	0.9	1.3	1.1	0.9	0.9	2.3	5.2	5.6	5.6	6.2	6.0	5.6	5.3	5.0	4.8	4.3	1.8	0.6	0.5	2.0	2.5	3.0	6.2	0.5
8	2.8	1.0	0.4	0.2	0.5	1.0	0.4	0.8	1.4	2.3	3.4	3.9	3.9	3.7	3.8	3.8	4.3	4.2	3.3	2.0	0.6	0.6	0.3	0.3	2.0	4.3	0.2
9	0.6	0.7	0.5	1.2	0.5	0.8	1.2	1.4	1.3	1.3	2.5	3.0	4.0	3.8	3.9	4.0	4.2	3.9	3.1	1.6	1.0	0.9	1.1	1.7	2.0	4.2	0.5
10	1.9	0.9	1.2	3.2	1.1	1.8	1.0	2.5	2.0	2.9	3.8	3.9	5.5	6.6	6.2	7.1	6.5	6.5	6.5	5.4	6.2	4.5	3.7	3.3	3.9	7.1	0.9
11	3.6	4.2	5.6	4.7	4.3	2.5	3.4	4.2	5.7	6.2	6.7	7.9	8.2	8.6	8.4	7.6	7.9	6.7	5.0	3.1	1.1	0.8	1.0	1.5	5.0	8.6	0.8
12	1.1	2.9	1.6	1.9	6.4	4.4	6.2	4.5	4.3	2.7	2.5	2.5	2.7	3.9	2.8	2.9	5.3	4.8	4.4	2.4	0.7	2.3	6.4	7.7	3.6	7.7	0.7
13	7.4	9.7	10.5	9.2	9.3	7.3	14.4	11.9	10.2	6.6	4.4	4.4	4.5	4.0	3.0	4.2	3.9	3.6	4.0	4.6	10.3	12.1	11.5	11.4	7.6	14.4	3.0
14	9.8	12.5	15.5	15.5	14.5	11.7	8.4	6.9	6.8	6.7	7.7	7.5	5.9	5.7	4.3	3.4	3.3	2.3	2.7	3.4	5.5	6.9	6.6	5.9	7.5	15.5	2.3
15	2.2	2.9	2.6	2.1	2.8	2.5	2.2	2.2	2.8	4.3	3.2	5.1	3.7	3.1	2.7	2.2	3.2	3.1	3.3	2.0	1.1	0.7	1.3	2.7	2.7	5.1	0.7
16	1.0	1.0	2.1	2.7	3.7	1.0	1.0	0.9	0.9	1.2	2.5	3.8	3.9	4.8	4.8	4.4	4.8	5.3	3.7	1.9	0.7	1.2	0.9	0.6	2.5	5.3	0.6
17	0.3	0.6	1.2	1.2	1.6	1.5	1.0	0.8	1.2	1.4	1.9	3.7	4.3	5.3	5.2	5.3	4.2	5.0	4.5	1.8	0.4	0.4	1.7	1.8	2.3	5.3	0.3
18	1.4	0.7	1.3	0.9	2.2	1.4	1.8	2.1	2.7	2.3	2.6	3.4	4.3	5.3	5.1	5.1	4.5	3.5	3.8	1.6	0.4	0.5	1.1	1.7	2.5	5.3	0.4
19	1.6	0.9	1.3	1.5	1.6	1.5	1.8	1.7	2.3	3.8	4.8	5.6	6.5	5.8	6.2	6.4	6.1	7.1	6.1	5.0	3.9	0.9	1.3	1.0	3.5	7.1	0.9
20	1.0	0.8	1.4	0.8	1.1	1.7	1.7	1.7	3.2	4.3	5.5	5.0	6.3	6.2	5.7	6.8	8.0	7.5	6.7	5.3	5.2	4.9	4.4	1.0	4.0	8.0	0.8
21	1.6	1.8	1.9	0.5	1.0	1.6	1.8	0.8	2.6	4.2	5.1	5.0	6.0	5.7	5.7	5.7	6.4	5.4	5.1	3.4	0.8	0.9	0.8	1.2	3.1	6.4	0.5
22	1.0	1.2	1.0	2.5	0.6	0.4	0.3	0.5	1.3	1.7	5.2	4.6	4.4	4.8	5.2	5.8	5.2	6.4	5.3	3.5	1.7	2.1	1.2	2.2	2.8	6.4	0.3
23	1.4	1.6	1.0	1.0	1.1	1.0	2.1	1.7	1.0	2.9	2.8	5.3	4.9	5.6	5.2	5.6	5.9	4.6	4.6	3.6	1.5	2.0	1.4	0.6	2.9	5.9	0.6
24	0.9	0.9	0.6	1.3	0.5	0.5	0.6	0.8	1.4	2.9	3.1	4.2	4.4	4.3	4.3	4.7	4.0	3.5	2.6	1.8	1.0	0.5	1.1	0.9	2.1	4.7	0.5
25	1.7	1.4	0.8	1.6	4.0	5.0	3.7	1.2	1.9	2.4	3.0	4.2	5.1	4.6	4.8	3.7	4.3	3.5	3.8	2.0	0.7	1.5	1.2	1.6	2.8	5.1	0.7
26	1.2	1.3	1.0	0.4	0.5	0.6	1.3	0.8	1.1	2.2	3.3	4.0	3.8	5.2	5.4	6.0	5.4	4.7	4.5	2.3	1.0	1.6	1.3	0.8	2.5	6.0	0.4
27	1.2	1.0	0.9	1.0	1.0	0.5	0.4	0.4	0.8	1.2	2.5	2.3	4.1	4.9	4.7	4.0	4.7	4.5	3.6	2.2	1.0	0.8	0.8	1.5	2.1	4.9	0.4
28	0.5	1.2	0.7	2.1	1.9	3.3	2.6	0.7	0.8	1.4	2.0	2.9	3.4	3.3	3.2	4.0	4.3	3.9	2.6	1.0	0.5	0.7	0.7	1.2	2.0	4.3	0.5
29	1.2	1.1	1.5	1.4	1.2	0.8	1.0	0.9	0.9	1.2	1.4	2.8	3.3	2.7	1.5	3.5	3.3	2.4	4.7	4.1	3.8	4.3	3.6	2.8	2.3	4.7	0.8
30	1.9	3.0	3.9	4.9	3.3	4.0	3.3	1.3	1.7	1.9	2.6	2.5	3.4	3.2	3.4	4.0	4.2	4.9	4.1	2.5	1.7	2.5	1.0	0.6	2.9	4.9	0.6
31	0.7	1.0	0.6	0.6	0.4	2.2	1.0	0.7	1.0	1.4	2.1	2.6	3.6	4.9	5.1	5.3	4.8	4.3	3.6	3.0	2.5	0.9	0.9	1.3	2.3	5.3	0.4
Avg	2.2	2.3	2.4	2.4	2.6	2.5	2.7	2.3	2.7	3.3	3.6	4.3	4.6	4.9	4.6	4.8	4.9	4.7	4.2	2.8	2.2	2.1	2.1	2.1	3.2	--	--
Max	12.4	12.5	15.5	15.5	14.5	11.7	14.4	11.9	10.2	8.6	7.7	7.9	8.2	8.6	8.4	7.6	8.0	7.5	6.7	5.4	10.3	12.1	11.5	11.4	--	15.5	--
Min	0.3	0.6	0.4	0.2	0.4	0.4	0.3	0.4	0.8	1.2	1.4	2.3	2.7	2.7	1.5	2.2	3.2	2.3	2.5	1.0	0.4	0.4	0.3	0.2	--	--	0.2

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Jun 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	0.9	1.2	1.1	1.4	2.6	3.2	2.4	0.9	1.1	1.8	2.4	3.3	4.0	4.1	4.7	4.3	4.9	4.4	3.7	2.7	0.9	1.0	0.6	0.6	2.4	4.9	0.6
2	0.4	2.0	0.5	1.9	1.8	3.8	3.0	3.3	1.3	1.5	2.2	2.9	2.8	3.4	3.6	3.7	4.2	3.7	1.6	0.7	0.8	0.7	1.5	0.9	2.2	4.2	0.4
3	0.5	1.4	1.7	2.7	1.7	1.9	2.3	1.3	1.0	1.7	3.2	4.5	3.9	4.2	4.4	4.3	4.2	4.2	3.7	2.8	0.9	1.2	0.4	1.4	2.5	4.5	0.4
4	1.6	0.5	0.5	0.5	1.1	0.4	0.5	0.5	1.1	1.7	2.8	4.2	4.9	5.4	5.5	5.2	5.1	4.4	3.8	2.1	0.3	1.2	0.6	1.0	2.3	5.5	0.3
5	0.9	0.8	0.8	1.5	1.3	1.7	0.7	0.4	1.4	1.6	2.3	3.5	3.7	4.1	4.3	4.2	3.9	3.9	2.9	1.6	0.7	0.5	0.5	0.8	2.0	4.3	0.4
6	0.6	0.5	0.4	0.7	1.0	2.3	4.2	1.9	0.6	1.7	2.5	3.7	4.7	4.0	4.6	4.5	4.5	4.0	3.9	2.1	0.5	1.6	1.1	0.8	2.4	4.7	0.4
7	0.8	1.2	1.4	1.7	1.0	0.4	2.2	1.3	0.9	2.0	2.4	4.3	4.3	4.8	5.4	4.3	4.7	4.2	3.5	1.8	1.0	0.6	0.4	0.8	2.3	5.4	0.4
8	0.9	0.9	0.8	0.7	0.5	0.5	0.4	0.8	1.1	1.6	2.8	3.5	3.4	4.0	4.2	3.8	4.4	5.2	4.4	2.8	1.0	0.5	1.0	1.1	2.1	5.2	0.4
9	0.6	1.0	0.4	0.9	1.9	1.7	2.1	2.8	3.7	2.6	2.2	2.3	3.2	4.3	5.1	4.8	5.6	5.2	4.6	2.3	0.7	1.0	0.7	1.0	2.5	5.6	0.4
10	1.2	0.7	1.9	1.4	1.9	1.1	0.6	0.7	1.5	1.7	2.2	3.1	4.0	3.9	4.5	5.2	5.4	5.2	4.9	4.0	2.1	1.7	0.5	0.7	2.5	5.4	0.5
11	0.9	1.3	0.9	0.9	1.4	1.5	1.2	0.9	2.9	3.8	4.5	5.4	5.3	6.7	6.4	6.4	6.7	5.8	5.0	3.2	1.0	1.0	0.7	1.7	3.1	6.7	0.7
12	1.4	1.7	2.0	1.2	1.3	3.1	3.5	2.2	1.2	2.8	2.5	2.7	3.2	4.8	4.4	5.2	3.8	3.5	3.6	2.5	0.8	0.4	0.8	1.0	2.5	5.2	0.4
13	1.0	1.5	0.4	0.5	0.6	0.5	0.7	2.0	3.2	3.3	3.8	4.5	4.5	5.0	5.3	5.4	6.0	6.6	6.2	5.2	2.9	0.7	0.4	0.7	3.0	6.6	0.4
14	0.6	0.6	0.8	0.9	1.2	1.0	0.7	3.0	5.3	5.6	5.7	6.3	6.0	6.6	6.4	6.4	6.2	6.2	5.3	3.5	0.7	0.4	0.9	0.6	3.4	6.6	0.4
15	0.8	1.5	1.7	1.6	1.5	1.7	1.1	1.2	1.1	3.3	4.1	4.4	4.9	6.8	6.9	7.2	5.7	5.1	4.1	1.9	1.0	0.6	0.8	0.5	2.9	7.2	0.5
16	0.9	0.8	1.4	1.5	1.7	2.2	1.8	1.8	3.5	4.6	5.2	5.7	6.3	6.1	7.6	6.8	6.9	6.6	5.7	3.6	0.7	0.5	1.1	1.0	3.5	7.6	0.5
17	0.5	1.1	0.6	0.7	1.2	0.9	1.7	2.3	4.7	4.8	5.6	5.5	6.1	6.5	6.6	6.7	6.6	7.6	6.5	6.3	5.1	4.5	3.5	2.8	4.1	7.6	0.5
18	1.2	1.5	1.4	1.4	1.2	1.7	0.9	1.8	4.0	4.5	5.0	5.0	5.4	5.6	5.0	6.0	5.4	5.1	5.2	3.5	1.4	0.9	0.7	0.6	3.1	6.0	0.6
19	0.6	0.4	0.4	0.5	1.0	1.1	0.9	1.3	0.8	1.5	2.6	2.9	3.2	3.7	4.5	4.6	4.7	3.9	3.9	2.2	0.8	0.7	1.6	1.0	2.0	4.7	0.4
20	0.7	0.5	0.8	1.2	1.2	1.1	0.9	0.7	1.2	2.4	2.9	4.0	3.9	4.4	4.8	4.9	5.4	5.5	4.6	3.5	1.5	0.4	0.7	1.7	2.4	5.5	0.4
21	1.7	1.2	1.5	1.2	0.7	0.7	0.8	0.6	1.2	1.3	2.8	4.1	5.0	4.7	5.7	5.4	5.0	5.3	4.7	3.7	1.9	0.9	0.7	1.2	2.6	5.7	0.6
22	0.6	0.8	0.9	0.7	1.2	1.3	1.0	1.7	1.9	2.2	3.4	4.0	4.0	4.4	4.8	4.9	3.9	4.4	4.5	2.7	0.8	0.7	1.3	1.0	2.4	4.9	0.6
23	2.1	1.6	1.1	1.4	0.4	0.5	0.5	1.0	2.5	3.0	3.9	4.1	4.3	4.7	5.1	4.0	4.6	4.6	4.3	3.2	0.9	1.2	1.7	0.8	2.6	5.1	0.4
24	1.3	1.0	1.2	1.0	0.8	1.1	0.9	1.0	2.1	2.8	3.6	2.8	3.2	4.8	5.2	4.6	4.0	3.7	2.8	2.0	1.0	0.8	1.1	1.6	2.3	5.2	0.8
25	1.0	1.9	1.9	0.8	0.7	0.6	1.3	1.2	1.5	3.7	4.3	4.0	3.3	3.8	4.5	5.8	4.6	5.3	4.5	2.9	0.6	0.8	1.5	1.0	2.6	5.8	0.6
26	1.4	1.4	0.7	1.1	1.3	1.2	1.1	1.7	3.8	4.2	3.9	4.7	5.2	6.1	6.0	6.2	5.9	5.6	4.8	3.6	2.1	3.1	1.8	1.0	3.2	6.2	0.7
27	1.3	1.3	1.0	0.5	0.7	1.0	1.0	1.1	3.3	3.4	3.3	3.1	4.6	5.2	5.4	5.2	5.1	5.2	5.2	3.2	1.1	1.5	2.1	0.6	2.7	5.4	0.5
28	0.6	1.1	0.7	0.6	1.5	0.9	0.9	0.9	1.3	2.0	2.5	3.4	3.6	3.6	3.4	3.8	4.4	3.9	3.7	2.7	0.9	0.5	0.6	0.1	2.0	4.4	0.1
29	1.2	1.3	0.7	0.8	1.0	1.2	1.9	0.7	1.2	2.3	2.6	2.8	2.7	3.4	4.7	4.7	4.7	4.0	3.9	2.9	1.0	0.3	1.3	0.5	2.2	4.7	0.3
30	0.8	0.9	0.7	0.6	1.3	1.2	0.3	0.8	1.1	1.5	3.7	3.2	3.5	3.8	4.3	4.6	4.1	4.5	4.3	3.5	0.5	0.8	0.7	0.4	2.1	4.6	0.3
Avg	1.0	1.1	1.0	1.1	1.2	1.4	1.4	1.4	2.0	2.7	3.4	3.9	4.2	4.8	5.1	5.1	5.0	4.9	4.3	3.0	1.2	1.0	1.0	1.0	2.6	--	--
Max	2.1	2.0	2.0	2.7	2.6	3.8	4.2	3.3	5.3	5.6	5.7	6.3	6.3	6.8	7.6	7.2	6.9	7.6	6.5	6.3	5.1	4.5	3.5	2.8	--	7.6	--
Min	0.4	0.4	0.4	0.5	0.4	0.4	0.3	0.4	0.6	1.3	2.2	2.3	2.7	3.4	3.4	3.7	3.8	3.5	1.6	0.7	0.3	0.3	0.4	0.1	--	--	0.1

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Apr 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	54	61	90	156	73	58	50	4	173	211	205	237	244	251	248	249	257	270	268	268	262	22	72	73	244	270	4
2	54	50	278	280	301	318	245	87	149	159	207	226	242	245	250	248	246	254	271	267	256	317	149	281	254	318	50
3	319	331	360	52	22	57	219	257	179	207	221	223	252	252	260	265	269	271	261	322	41	347	352	39	292	360	22
4	340	19	321	332	18	355	64	322	178	89	121	161	200	218	236	252	245	247	278	344	335	347	43	11	324	355	11
5	344	77	45	275	107	26	55	70	152	171	180	247	271	260	258	268	268	264	278	297	354	16	7	236	298	354	7
6	77	55	295	27	36	298	37	134	146	170	281	270	263	283	253	257	255	262	270	302	315	339	56	40	307	339	27
7	52	359	57	69	37	37	315	179	282	8	357	14	333	345	42	196	265	253	258	326	7	358	338	69	356	359	7
8	339	324	295	22	18	16	21	274	348	98	176	243	208	238	204	269	269	269	272	344	18	50	313	14	316	348	14
9	5	34	49	62	72	69	82	146	171	188	225	205	233	243	248	275	250	250	274	360	359	355	356	34	326	360	5
10	348	341	18	0	17	33	39	218	180	100	145	174	171	250	252	251	276	270	297	0	13	315	17	14	331	348	0
11	47	50	43	62	52	62	27	75	74	150	147	186	198	244	242	250	251	331	294	20	84	62	2	91	59	331	2
12	67	76	54	57	25	309	32	88	229	188	199	222	220	211	239	248	248	261	263	297	355	66	70	60	287	355	25
13	66	61	48	57	56	53	60	86	116	167	217	222	240	242	235	251	251	268	271	268	284	302	335	319	286	335	48
14	356	62	57	46	48	59	65	72	78	80	72	45	56	99	90	44	39	45	9	16	42	68	333	189	54	356	9
15	305	302	337	318	72	52	55	35	45	52	61	71	93	249	171	218	267	242	267	329	24	30	279	337	356	337	24
16	316	318	343	13	347	24	33	55	170	186	200	269	267	249	247	259	263	267	263	5	11	354	305	320	306	354	5
17	325	348	31	52	45	48	64	80	161	242	269	249	228	244	222	227	251	266	274	347	357	18	23	40	326	357	18
18	53	120	328	44	9	32	34	55	119	167	200	219	196	126	177	135	69	91	80	72	74	78	80	66	88	328	9
19	78	70	84	78	73	83	75	109	221	194	242	190	184	288	260	271	224	212	8	46	94	98	97	178	126	288	8
20	101	68	326	38	58	315	320	125	194	202	202	246	269	242	257	278	263	269	274	295	1	10	41	311	293	326	1
21	309	287	306	315	9	61	73	153	187	186	233	206	226	209	231	245	267	255	271	308	345	350	290	19	273	350	9
22	20	1	3	63	346	58	58	83	171	191	243	238	241	231	224	243	238	235	234	232	239	243	208	134	233	346	1
23	105	76	85	348	325	79	108	126	201	241	258	221	234	244	260	260	242	262	265	286	26	15	39	53	274	348	15
24	31	37	32	40	82	50	72	157	159	200	184	174	224	255	245	242	252	225	259	314	331	297	344	32	278	344	31
25	50	75	42	54	60	48	351	92	133	168	198	206	213	240	219	227	231	238	236	237	230	199	196	187	193	351	42
26	160	155	189	10	332	237	196	196	204	212	228	265	276	265	247	259	263	275	250	255	236	356	110	60	238	356	10
27	42	23	359	105	308	32	43	120	174	233	259	269	243	255	258	256	256	268	265	278	12	29	42	39	310	359	12
28	337	350	347	24	37	50	41	115	215	205	252	259	256	251	262	255	259	272	267	305	51	58	43	59	316	350	24
29	49	30	24	28	42	61	49	50	31	51	47	13	16	28	21	358	30	8	10	9	26	24	20	43	29	358	8
30	26	23	24	9	28	34	44	51	41	42	72	76	75	61	92	172	335	314	4	15	47	39	36	34	38	335	4
Avg	25	32	15	31	32	37	47	98	162	173	208	226	234	247	240	250	261	265	277	321	2	12	19	37	331	--	--
Max	356	359	360	348	347	355	351	322	348	242	357	270	333	345	262	358	335	331	297	360	359	358	356	337	--	360	--
Min	5	1	3	0	9	16	21	4	31	8	47	13	16	28	21	44	30	8	4	0	1	10	2	11	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: May 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	37	34	51	70	64	28	25	73	46	62	54	52	98	149	343	17	320	18	332	15	17	36	60	138	42	343	15
2	292	56	20	56	88	86	74	74	77	74	168	190	152	189	198	246	261	284	271	305	14	355	322	354	31	355	14
3	340	38	321	328	6	295	327	69	96	166	217	183	237	244	267	250	239	268	274	329	12	245	307	333	293	340	6
4	344	41	30	342	68	46	67	120	147	155	168	211	244	255	237	233	277	264	274	301	52	326	48	36	337	344	30
5	360	57	34	30	58	69	79	187	182	186	204	235	237	240	221	223	220	205	227	239	235	235	185	141	203	360	30
6	146	63	93	35	71	103	87	158	215	203	219	221	222	228	220	227	253	270	264	269	247	265	344	2	222	344	2
7	319	10	299	329	306	47	187	110	180	221	226	240	239	254	251	257	259	267	275	280	342	55	48	42	280	342	10
8	52	33	319	293	82	26	77	144	165	271	251	238	265	258	226	255	276	267	269	278	353	346	340	349	296	353	26
9	14	324	346	32	15	341	50	124	181	199	278	270	270	264	251	254	256	256	280	307	348	348	57	40	312	348	14
10	39	326	345	55	43	47	253	110	180	178	180	221	246	241	237	234	230	251	237	230	222	209	199	190	223	345	39
11	186	194	200	226	240	262	252	253	235	246	251	249	262	271	268	265	272	265	264	262	321	345	356	34	259	356	34
12	22	30	310	296	61	74	57	74	83	307	328	168	259	278	256	165	230	211	289	284	325	18	66	53	343	328	18
13	48	60	68	56	57	32	31	48	60	92	68	59	60	36	31	12	16	22	14	9	33	33	40	40	43	92	9
14	50	68	62	57	55	55	56	69	62	53	56	57	60	66	69	90	33	92	52	62	84	71	63	55	62	92	33
15	156	14	66	229	80	95	274	129	86	62	61	22	63	50	55	89	160	271	254	250	39	37	7	3	58	274	3
16	321	304	55	45	63	13	323	223	131	226	259	267	253	262	266	264	259	255	261	289	33	49	58	353	301	353	13
17	36	54	56	51	54	56	68	91	66	58	221	259	259	247	238	237	261	266	269	297	356	41	55	65	16	356	36
18	22	2	32	356	62	59	83	94	148	153	158	227	215	236	250	251	242	247	272	297	356	49	60	55	19	356	2
19	62	52	43	56	60	61	62	87	183	215	215	224	201	216	230	223	238	232	218	224	245	287	294	66	207	294	43
20	34	73	47	23	26	54	70	116	159	188	192	202	209	206	222	222	223	214	218	220	227	224	230	112	184	230	23
21	112	123	131	113	102	70	89	115	176	186	183	227	247	235	235	222	228	218	232	221	188	258	61	56	175	258	56
22	43	9	359	43	330	7	272	171	226	246	201	198	226	240	231	238	242	255	248	259	273	276	120	145	250	359	7
23	222	246	313	2	56	343	53	130	173	173	196	183	203	207	226	246	258	264	267	270	324	335	182	298	245	343	2
24	41	56	42	49	312	320	43	55	156	263	247	245	256	235	236	250	270	257	257	265	307	73	54	50	304	320	41
25	53	342	36	29	51	81	98	147	136	125	230	267	258	250	255	255	252	259	237	269	350	38	54	47	333	350	29
26	26	60	52	52	20	336	52	109	142	247	255	255	254	251	250	254	273	261	267	276	329	327	27	5	312	336	5
27	24	62	48	349	32	339	279	117	195	220	271	240	232	254	268	259	262	263	261	281	322	347	74	63	295	349	24
28	341	48	39	44	54	59	95	120	141	265	234	264	261	261	268	268	263	272	272	305	326	305	29	333	312	341	29
29	57	70	53	344	346	19	311	142	275	226	108	167	217	332	21	145	204	30	134	85	72	90	62	87	69	346	19
30	358	44	85	78	101	100	85	99	85	224	216	262	239	251	267	265	268	259	274	301	12	17	253	190	271	358	12
31	323	22	314	328	10	51	84	222	265	206	255	292	261	229	252	254	269	257	250	276	276	287	8	60	286	328	8
Avg	25	37	30	24	46	39	54	116	149	198	216	231	237	244	250	243	255	260	262	281	338	351	38	45	307	--	--
Max	360	342	359	356	346	343	327	253	275	307	328	292	270	332	343	268	320	284	332	329	356	355	356	354	--	360	--
Min	14	2	20	2	6	7	25	48	46	53	54	22	60	36	21	12	16	18	14	9	12	17	7	2	--	--	2

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Jun 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	69	50	67	60	49	61	54	131	169	239	274	255	253	253	247	248	268	264	272	287	337	318	290	317	294	337	49
2	351	37	344	45	42	54	86	97	240	257	250	246	241	256	267	259	259	249	242	37	351	15	51	68	325	351	15
3	270	54	53	53	56	53	54	91	157	240	263	275	265	262	266	256	230	259	259	277	322	50	31	55	312	322	31
4	54	11	4	3	15	25	7	99	164	204	255	254	259	256	263	261	266	257	276	287	327	6	327	25	312	327	3
5	3	324	325	36	33	44	31	197	172	226	255	250	260	271	263	249	252	262	265	300	15	255	309	337	291	337	3
6	5	12	300	34	332	37	72	80	195	198	266	219	247	236	259	249	245	252	269	288	323	17	279	325	290	332	5
7	315	45	52	52	357	346	46	115	210	196	166	186	203	231	222	240	239	267	278	306	347	85	328	354	289	357	45
8	4	4	264	359	355	8	23	128	233	268	191	263	252	265	252	246	267	261	260	264	315	347	47	62	296	359	4
9	276	298	339	331	77	250	209	145	85	105	128	263	255	246	263	265	254	267	265	274	356	7	324	251	275	356	7
10	285	71	105	38	52	41	139	77	181	176	182	245	269	251	257	239	247	243	240	248	220	269	3	33	236	285	3
11	50	83	62	4	47	52	59	86	252	251	246	239	244	254	250	234	246	244	252	260	298	36	55	55	299	298	4
12	59	57	49	46	45	57	67	96	165	202	214	175	222	232	251	251	238	252	266	287	317	80	53	8	51	317	8
13	95	191	304	339	331	210	162	229	211	216	212	197	233	243	243	243	237	259	266	269	256	266	345	7	246	345	7
14	354	5	77	57	327	316	42	182	201	234	244	237	239	265	266	263	259	266	271	266	337	332	36	60	292	354	5
15	65	59	56	63	62	62	73	82	253	215	217	210	203	224	231	239	252	261	270	270	305	347	67	340	274	347	56
16	65	59	74	63	67	84	96	115	179	210	249	249	244	238	250	246	270	272	269	278	275	47	42	52	255	278	42
17	108	114	111	106	77	67	102	213	217	217	213	240	228	236	247	249	250	251	233	220	213	206	202	196	202	251	67
18	167	85	64	82	93	96	117	181	209	215	218	226	254	244	266	251	260	270	264	278	286	26	346	344	238	346	26
19	254	318	283	338	35	33	37	235	192	253	243	241	245	257	243	259	257	268	274	279	341	47	43	304	283	341	33
20	48	297	6	353	30	342	34	209	155	278	277	269	243	265	265	258	264	260	271	271	303	340	20	344	300	353	6
21	323	64	18	329	305	4	43	118	191	229	260	257	250	261	267	266	262	273	257	280	307	301	41	47	295	329	4
22	354	317	3	39	51	57	60	83	171	212	223	238	257	256	233	241	254	276	277	285	313	266	54	53	293	354	3
23	45	50	53	33	20	356	9	122	204	222	228	226	221	244	257	253	253	261	257	276	358	52	58	53	307	358	9
24	44	20	49	34	337	27	57	88	217	197	232	202	222	253	251	242	238	265	269	295	332	327	2	61	304	337	2
25	237	342	33	311	345	34	51	97	271	228	218	215	220	221	232	249	250	237	252	252	335	63	83	32	272	345	32
26	43	66	86	1	76	74	54	205	222	211	252	252	252	223	239	231	228	241	254	262	257	262	294	93	243	294	1
27	148	157	143	35	47	356	89	179	245	265	257	233	231	246	248	252	263	252	265	273	315	342	320	43	260	356	35
28	12	23	12	353	58	318	31	68	276	219	262	251	246	267	264	233	259	229	281	276	308	67	15	335	306	353	12
29	2	6	340	330	56	46	61	147	146	231	265	196	251	287	260	283	258	250	275	259	319	9	2	182	294	340	2
30	74	338	333	100	38	346	311	117	194	260	257	272	267	253	242	247	239	263	277	273	327	346	23	359	295	359	23
Avg	24	30	28	26	33	31	59	129	200	224	236	237	243	250	252	250	252	258	264	276	315	358	12	21	283	--	--
Max	354	342	344	359	357	356	311	235	276	278	277	275	269	287	267	283	270	276	281	306	358	347	346	359	--	359	--
Min	2	4	3	1	15	4	7	68	85	105	128	175	203	221	222	231	228	229	233	37	15	6	2	7	--	--	1

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Apr 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	2.64	1.72	0.92	0.65	1.35	1.80	1.74	0.20	-0.95	-1.21	-2.08	-1.45	-1.47	-1.38	-1.28	-1.17	-0.79	-0.50	-0.16	0.11	0.09	0.26	0.28	0.52	-0.01	2.64	-2.08
2	1.02	1.15	0.18	0.15	0.15	0.00	0.09	-0.62	-1.50	-1.71	-1.87	-1.51	-1.21	-1.27	-1.22	-1.16	-0.87	-0.65	-0.23	-0.21	-0.23	-0.27	-0.25	-0.04	-0.50	1.15	-1.87
3	0.11	0.54	0.65	0.88	0.76	0.78	0.50	-0.21	-0.82	-1.31	-1.36	-1.65	-1.06	-1.12	-1.07	-1.09	-0.86	-0.58	-0.24	0.02	0.83	0.98	0.81	0.83	-0.15	0.98	-1.65
4	0.75	1.18	1.16	1.51	1.83	1.38	0.93	-0.25	-0.62	-1.27	-1.67	-2.22	-1.82	-1.40	-1.49	-1.04	-0.84	-0.53	-0.15	0.05	0.50	0.75	0.82	1.00	-0.06	1.83	-2.22
5	0.98	1.13	1.03	0.53	0.72	1.04	1.09	-0.08	-0.94	-1.31	-1.30	-1.22	-1.38	-1.36	-1.42	-1.23	-0.84	-0.64	-0.23	-0.03	0.09	0.34	0.34	0.34	-0.18	1.13	-1.42
6	0.72	1.29	1.10	1.43	1.54	0.90	1.02	-0.46	-0.93	-1.33	-0.85	-1.07	-1.17	-1.33	-1.21	-1.09	-0.93	-0.56	-0.15	0.16	0.47	0.87	2.23	2.35	0.13	2.35	-1.33
7	0.81	0.75	0.53	0.66	0.70	0.59	0.98	-0.36	-0.60	-1.13	-1.30	-1.57	-1.33	-1.38	-1.30	-1.29	-0.88	-0.55	-0.17	0.35	0.62	1.37	1.28	1.07	-0.09	1.37	-1.57
8	1.01	1.59	1.43	1.52	1.63	2.19	1.04	0.06	-0.57	-1.27	-1.12	-1.24	-1.97	-1.75	-2.08	-1.08	-0.81	-0.49	0.01	0.68	2.25	2.07	1.83	1.86	0.28	2.25	-2.08
9	2.31	2.17	1.40	0.76	0.52	0.57	0.54	-0.17	-0.86	-1.16	-0.84	-1.34	-1.23	-1.17	-1.03	-0.87	-0.84	-0.50	0.15	0.94	1.92	1.57	1.85	2.01	0.28	2.31	-1.34
10	2.05	2.44	2.11	2.01	2.64	2.47	1.54	0.25	-0.76	-1.06	-1.58	-1.94	-1.46	-1.50	-1.16	-1.28	-0.82	-0.36	0.03	0.45	0.52	0.47	1.26	2.09	0.35	2.64	-1.94
11	1.75	1.87	1.64	1.27	1.28	0.73	0.63	-0.03	-0.60	-1.37	-1.64	-1.71	-1.67	-0.82	-1.06	-1.04	-0.83	-0.49	-0.04	0.65	0.37	0.52	0.99	0.80	0.05	1.87	-1.71
12	1.07	1.20	1.20	1.11	1.56	1.44	1.31	-0.29	-0.75	-1.43	-1.98	-1.89	-1.90	-2.23	-1.44	-1.14	-1.06	-0.60	-0.18	0.17	0.76	1.62	1.07	1.24	-0.05	1.62	-2.23
13	0.94	1.21	1.00	1.44	1.73	1.38	0.74	-0.77	-1.13	-1.67	-1.71	-1.89	-1.55	-1.63	-1.83	-1.27	-0.88	-0.51	-0.15	0.11	0.39	0.40	0.62	0.37	-0.20	1.73	-1.89
14	0.46	0.18	0.14	0.14	0.16	0.15	0.05	-0.56	-0.95	-1.18	-1.51	-1.65	-1.70	-1.51	-1.60	-1.21	-1.07	-0.65	-0.24	0.11	0.36	0.42	0.49	0.49	-0.45	0.49	-1.70
15	0.62	0.80	1.17	0.82	0.35	0.31	0.15	-0.31	-0.74	-1.07	-1.19	-1.42	-1.62	-1.18	-1.72	-1.59	-0.85	-0.65	-0.04	0.39	1.65	2.16	1.90	2.06	0.00	2.16	-1.72
16	2.05	2.38	2.06	1.98	2.16	2.17	1.55	-0.40	-1.16	-1.44	-1.52	-0.99	-1.03	-1.52	-1.27	-1.04	-0.81	-0.49	0.00	0.54	1.93	2.07	1.85	1.97	0.46	2.38	-1.52
17	1.17	1.14	1.15	1.97	2.55	1.75	0.49	-0.63	-0.99	-0.79	-1.18	-1.11	-1.50	-1.44	-1.47	-1.44	-0.94	-0.47	-0.05	0.30	0.83	0.89	0.91	0.63	0.07	2.55	-1.50
18	0.73	0.40	0.47	1.07	1.07	0.74	0.36	-0.11	-0.75	-1.12	-1.35	-1.07	-0.75	-0.46	-0.49	-0.50	-0.35	-0.26	-0.13	0.01	0.05	0.09	0.12	0.10	-0.09	1.07	-1.35
19	-0.01	0.07	0.10	0.05	0.20	0.15	0.02	-0.30	-0.51	-0.81	-0.64	-1.82	-1.12	-0.87	-1.21	-1.16	-1.33	-0.97	-0.60	-0.21	-0.27	-0.11	-0.04	-0.10	-0.48	0.20	-1.82
20	0.19	0.47	0.41	0.59	0.33	0.61	0.41	-0.87	-1.06	-1.17	-1.44	-1.32	-1.53	-1.72	-1.22	-1.17	-1.01	-0.66	-0.27	0.00	0.47	0.69	0.69	1.05	-0.31	1.05	-1.72
21	1.11	0.89	1.28	0.97	1.41	0.93	0.34	-0.62	-0.84	-1.14	-1.13	-1.87	-1.77	-2.02	-1.55	-1.24	-0.88	-0.65	-0.16	0.07	0.56	0.67	0.66	1.60	-0.14	1.60	-2.02
22	1.71	1.64	1.85	1.64	1.11	1.23	0.54	-0.74	-1.24	-1.09	-1.20	-1.55	-1.51	-1.86	-2.04	-1.12	-1.00	-0.57	-0.21	-0.05	-0.01	0.07	0.12	0.17	-0.17	1.85	-2.04
23	0.26	0.44	0.45	0.49	0.62	0.73	0.30	-0.96	-1.25	-1.12	-0.99	-2.13	-1.87	-1.74	-1.33	-1.09	-1.18	-0.63	-0.23	0.11	0.81	1.69	1.37	1.57	-0.24	1.69	-2.13
24	1.80	1.92	1.48	1.42	0.93	1.00	0.31	-0.53	-1.09	-1.66	-1.88	-2.24	-1.56	-1.50	-1.28	-1.24	-0.91	-0.88	-0.21	0.15	0.72	0.59	1.18	1.75	-0.07	1.92	-2.24
25	1.75	1.18	1.27	1.48	1.39	0.70	0.65	-0.73	-1.27	-1.57	-1.82	-2.21	-2.17	-1.57	-1.97	-1.40	-1.06	-0.56	-0.25	-0.07	-0.01	0.06	0.13	0.16	-0.33	1.75	-2.21
26	0.20	0.23	0.37	0.43	0.43	-0.03	-0.23	-0.29	-0.42	-0.55	-0.78	-0.34	-0.37	-0.75	-0.79	-0.58	-0.40	-0.29	-0.08	0.14	0.25	0.41	0.52	1.22	-0.07	1.22	-0.79
27	1.80	1.59	1.27	1.11	0.67	1.54	1.02	-0.80	-0.76	-0.90	-0.97	-0.86	-1.24	-1.33	-1.20	-1.23	-0.92	-0.68	-0.33	-0.03	0.65	0.77	1.24	0.90	0.05	1.80	-1.33
28	1.04	1.44	1.24	1.52	1.77	0.93	0.43	-0.87	-0.76	-1.16	-0.96	-1.32	-1.15	-1.26	-1.17	-1.06	-0.91	-0.64	-0.27	0.37	1.85	1.86	1.80	0.30	0.13	1.86	-1.32
29	0.20	0.13	0.08	0.09	0.09	0.08	-0.01	-0.50	-0.75	-1.18	-1.38	-1.51	-1.69	-1.64	-1.50	-1.23	-1.06	-0.65	-0.33	-0.01	0.13	0.11	0.19	0.18	-0.51	0.20	-1.69
30	0.16	0.11	0.11	0.09	0.08	0.09	0.01	-0.51	-0.86	-1.17	-1.39	-1.63	-1.58	-1.58	-1.61	-1.45	-0.98	-0.73	-0.34	0.02	0.10	0.02	0.01	0.01	-0.54	0.16	-1.63
Avg	1.05	1.11	0.98	0.99	1.06	0.95	0.62	-0.42	-0.88	-1.21	-1.35	-1.52	-1.45	-1.41	-1.37	-1.15	-0.90	-0.58	-0.18	0.18	0.62	0.78	0.88	0.95	-0.09	--	--
Max	2.64	2.44	2.11	2.01	2.64	2.47	1.74	0.25	-0.42	-0.55	-0.64	-0.34	-0.37	-0.46	-0.49	-0.50	-0.35	-0.26	0.15	0.94	2.25	2.16	2.23	2.35	--	2.64	--
Min	-0.01	0.07	0.08	0.05	0.08	-0.03	-0.23	-0.96	-1.50	-1.71	-2.08	-2.24	-2.17	-2.23	-2.08	-1.59	-1.33	-0.97	-0.60	-0.21	-0.27	-0.27	-0.25	-0.10	--	--	-2.24

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: May 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	0.04	0.05	0.08	0.06	0.13	0.06	-0.06	-0.45	-0.86	-1.15	-1.15	-1.57	-1.75	-1.45	-1.43	-1.47	-1.05	-0.62	-0.31	0.14	0.34	0.41	0.56	0.62	-0.45	0.62	-1.75
2	0.55	1.27	1.44	0.85	0.43	0.48	0.24	-0.79	-1.21	-1.44	-2.10	-2.13	-2.00	-2.31	-1.92	-1.12	-0.88	-0.62	-0.24	0.21	0.89	1.92	2.06	1.24	-0.22	2.06	-2.31
3	1.48	2.50	2.90	2.50	2.59	1.47	1.26	-0.58	-1.12	-1.44	-1.25	-1.87	-1.67	-1.50	-1.26	-1.33	-1.14	-0.61	-0.23	0.47	0.96	0.99	1.37	2.14	0.28	2.90	-1.87
4	1.93	1.78	2.25	2.51	2.28	1.89	0.33	-0.70	-1.37	-1.74	-1.88	-2.19	-1.60	-1.30	-1.62	-1.68	-0.97	-0.60	-0.21	0.35	1.71	1.66	1.86	1.45	0.17	2.51	-2.19
5	1.99	2.19	2.75	2.01	2.27	2.05	0.49	-0.70	-1.47	-1.74	-2.36	-1.74	-1.60	-1.70	-1.94	-1.77	-1.50	-1.04	-0.34	-0.05	0.04	0.19	0.17	0.24	-0.15	2.75	-2.36
6	0.36	0.43	0.65	0.89	1.23	0.92	0.35	-0.93	-1.30	-1.96	-1.95	-2.13	-2.02	-1.70	-1.65	-1.19	-0.59	-0.36	-0.27	-0.19	-0.15	-0.09	-0.01	0.14	-0.48	1.23	-2.13
7	0.05	0.47	0.69	0.28	-0.02	0.28	-0.27	-0.84	-1.34	-1.57	-1.98	-1.61	-1.79	-1.65	-1.46	-1.13	-1.00	-0.77	-0.43	-0.15	0.11	0.68	0.70	0.27	-0.52	0.70	-1.98
8	0.41	0.38	0.74	0.57	1.15	1.10	0.02	-0.80	-1.11	-0.82	-1.15	-1.92	-1.15	-1.42	-1.79	-1.29	-1.07	-0.81	-0.39	-0.08	0.12	0.67	0.87	1.12	-0.28	1.15	-1.92
9	1.34	1.17	1.20	1.78	1.36	1.21	0.88	-1.02	-1.09	-1.10	-1.00	-1.01	-0.94	-0.88	-0.82	-1.11	-0.88	-0.75	-0.30	0.06	0.70	1.15	0.70	1.03	0.07	1.78	-1.11
10	1.08	1.25	1.19	0.89	1.17	1.06	0.59	-0.96	-1.40	-1.85	-2.34	-1.72	-1.56	-1.56	-1.66	-1.52	-1.38	-0.68	-0.34	-0.04	0.03	0.13	0.22	0.25	-0.38	1.25	-2.34
11	0.25	0.25	0.16	0.07	0.06	0.06	-0.18	-0.43	-1.03	-1.09	-1.23	-1.47	-1.33	-1.29	-1.19	-1.22	-0.96	-0.70	-0.40	-0.12	0.21	0.61	0.98	1.72	-0.34	1.72	-1.47
12	0.80	0.24	0.26	0.37	0.21	0.19	-0.13	-0.81	-1.37	-1.03	-1.20	-1.78	-1.25	-1.26	-1.63	-1.78	-1.47	-1.14	-0.39	0.01	0.60	0.88	0.20	0.14	-0.47	0.88	-1.78
13	0.12	0.09	0.11	0.12	0.12	0.08	-0.07	-0.59	-0.97	-1.27	-1.45	-1.60	-1.71	-1.67	-1.65	-1.48	-1.13	-0.77	-0.37	-0.03	0.05	0.07	0.10	0.12	-0.57	0.12	-1.71
14	0.14	0.12	0.07	0.04	0.04	0.04	-0.12	-0.54	-1.00	-1.31	-1.51	-1.49	-1.57	-1.70	-1.55	-1.32	-1.23	-0.75	-0.18	0.29	0.22	0.23	0.19	0.18	-0.53	0.29	-1.70
15	0.16	0.26	0.12	0.24	0.23	0.18	0.21	-0.63	-1.10	-1.48	-1.57	-1.76	-1.89	-1.83	-1.48	-1.45	-1.41	-0.57	-0.21	0.16	0.91	1.17	1.54	0.81	-0.39	1.54	-1.89
16	0.91	1.27	1.62	1.35	0.94	1.33	0.54	-0.39	-1.11	-0.97	-0.97	-0.93	-1.23	-1.17	-1.07	-1.07	-0.81	-0.63	-0.07	0.25	0.29	1.84	2.52	2.28	0.20	2.52	-1.23
17	2.71	2.73	2.77	2.76	2.82	2.86	2.05	-0.83	-1.10	-1.19	-1.14	-1.32	-1.32	-1.55	-1.56	-1.29	-0.89	-0.60	-0.21	0.41	1.00	1.63	1.75	1.49	0.50	2.86	-1.56
18	2.00	1.92	2.36	1.99	1.50	1.58	0.47	-0.77	-1.00	-1.57	-1.65	-1.56	-1.96	-1.54	-0.99	-0.66	-0.81	-0.52	-0.09	0.51	1.75	2.06	1.65	1.73	0.27	2.36	-1.96
19	2.37	1.78	1.69	1.66	1.98	1.65	0.28	-1.04	-1.25	-1.60	-1.97	-1.92	-2.95	-2.32	-1.78	-1.76	-0.90	-0.88	-0.34	0.12	0.21	0.46	0.87	1.39	-0.18	2.37	-2.95
20	1.38	1.02	1.33	1.20	1.56	1.36	0.07	-1.10	-1.53	-1.82	-2.26	-2.36	-2.50	-2.18	-1.81	-1.82	-1.23	-0.79	-0.39	-0.13	-0.05	0.03	0.09	0.48	-0.48	1.56	-2.50
21	0.67	0.46	0.47	0.71	0.84	1.20	0.12	-0.85	-1.60	-2.14	-2.11	-1.79	-1.38	-1.74	-1.68	-1.87	-1.43	-1.11	-0.50	-0.09	0.09	0.32	0.86	1.19	-0.47	1.20	-2.14
22	1.56	1.36	1.03	0.75	1.01	1.35	0.45	-0.68	-0.90	-0.95	-2.16	-2.51	-1.89	-1.43	-1.72	-1.40	-1.14	-0.65	-0.32	0.14	0.23	0.05	0.10	0.08	-0.32	1.56	-2.51
23	0.01	0.07	0.27	0.77	0.62	0.76	0.28	-0.75	-1.12	-1.73	-1.91	-2.75	-2.32	-2.57	-2.06	-1.30	-0.98	-0.77	-0.37	-0.03	0.06	-0.05	0.13	0.25	-0.65	0.77	-2.75
24	0.74	0.62	0.99	0.85	0.76	0.33	0.07	-0.36	-0.90	-0.88	-1.21	-1.44	-1.39	-1.81	-1.78	-1.36	-0.80	-0.59	-0.31	-0.04	0.00	0.37	0.77	0.44	-0.29	0.99	-1.81
25	0.39	0.25	0.54	0.55	0.17	0.07	-0.35	-0.92	-1.52	-1.71	-1.26	-1.10	-1.43	-1.44	-1.22	-1.04	-1.00	-0.90	-0.54	-0.06	0.70	1.12	1.25	1.58	-0.33	1.58	-1.71
26	1.71	1.37	1.90	2.00	1.71	1.59	0.30	-1.00	-1.00	-0.84	-0.97	-1.16	-1.23	-1.45	-1.36	-1.30	-0.91	-0.72	-0.29	0.19	0.31	0.58	2.03	2.36	0.16	2.36	-1.45
27	1.19	1.37	2.12	1.21	2.11	1.48	0.88	-0.65	-0.95	-1.11	-0.94	-1.22	-1.57	-1.31	-1.00	-1.06	-0.85	-0.64	-0.21	0.23	0.35	0.80	1.14	1.05	0.10	2.12	-1.57
28	1.53	1.89	1.57	1.97	1.38	0.67	-0.22	-0.98	-0.89	-0.91	-0.87	-0.98	-0.83	-0.72	-0.96	-0.94	-0.82	-0.65	-0.05	0.42	0.97	0.90	1.16	0.87	0.15	1.97	-0.98
29	1.13	0.52	0.82	0.68	0.84	1.16	0.21	-0.52	-0.52	-0.48	-0.46	-0.75	-0.74	-0.71	-0.95	-1.15	-1.32	-0.99	-0.48	-0.03	0.05	0.10	0.12	0.11	-0.14	1.16	-1.32
30	0.09	0.11	0.16	0.25	0.17	0.40	-0.13	-0.58	-1.02	-1.27	-1.50	-1.25	-1.50	-1.30	-1.14	-1.21	-0.91	-0.68	-0.34	0.00	0.50	0.49	0.40	0.75	-0.40	0.75	-1.50
31	1.33	1.76	1.84	1.78	1.91	1.82	0.14	-0.44	-0.57	-1.08	-0.97	-1.08	-1.26	-2.01	-1.52	-1.38	-0.90	-0.70	-0.37	0.12	0.30	0.59	0.96	1.44	0.07	1.91	-2.01
Avg	0.98	1.00	1.16	1.09	1.08	0.99	0.28	-0.73	-1.12	-1.33	-1.50	-1.62	-1.59	-1.56	-1.47	-1.34	-1.04	-0.73	-0.31	0.10	0.43	0.71	0.88	0.94	-0.20	--	--
Max	2.71	2.73	2.90	2.76	2.82	2.86	2.05	-0.36	-0.52	-0.48	-0.46	-0.75	-0.74	-0.71	-0.82	-0.66	-0.59	-0.36	-0.05	0.51	1.75	2.06	2.52	2.36	--	2.90	--
Min	0.01	0.05	0.07	0.04	-0.02	0.04	-0.35	-1.10	-1.60	-2.14	-2.36	-2.75	-2.95	-2.57	-2.06	-1.87	-1.50	-1.14	-0.54	-0.19	-0.15	-0.09	-0.01	0.08	--	--	-2.95

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Jun 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	1.66	1.81	1.88	2.11	1.47	0.61	-0.02	-1.01	-1.10	-1.05	-1.16	-1.31	-1.30	-1.52	-1.44	-1.49	-1.02	-0.77	-0.34	0.08	0.57	0.73	1.03	1.12	-0.02	2.11	-1.52
2	1.91	1.72	2.20	2.07	1.79	0.83	0.14	-1.07	-0.76	-0.74	-0.98	-1.32	-1.21	-1.28	-0.97	-0.95	-0.81	-0.54	-0.46	0.98	1.52	1.76	2.02	2.92	0.37	2.92	-1.32
3	1.86	2.77	2.55	1.38	1.95	1.96	0.18	-0.99	-0.95	-1.07	-1.21	-0.92	-1.01	-1.14	-0.84	-1.07	-1.26	-0.57	-0.35	0.28	0.81	2.68	2.23	2.87	0.42	2.87	-1.26
4	2.92	2.38	2.53	2.46	2.56	2.42	1.47	-0.71	-1.10	-1.34	-1.00	-1.29	-1.19	-1.30	-1.22	-1.32	-0.94	-0.70	-0.31	0.27	0.77	2.20	1.90	2.28	0.49	2.92	-1.34
5	2.64	2.19	2.02	1.52	2.26	1.88	1.24	-0.50	-1.19	-1.02	-1.29	-1.22	-1.15	-1.06	-1.27	-1.22	-0.96	-0.67	-0.25	0.50	0.90	1.77	1.45	1.93	0.35	2.64	-1.29
6	2.29	2.59	2.49	2.84	2.24	1.91	0.06	-0.86	-0.90	-1.17	-1.21	-1.84	-1.38	-1.61	-1.30	-1.20	-1.16	-0.69	-0.24	0.33	1.17	1.24	0.97	1.33	0.25	2.84	-1.84
7	1.98	2.34	2.91	3.00	2.26	2.37	0.80	-0.97	-1.02	-1.49	-1.79	-2.10	-2.24	-1.89	-2.15	-1.38	-1.31	-0.76	-0.34	0.11	0.44	1.11	1.05	1.27	0.09	3.00	-2.24
8	1.10	1.62	0.95	1.39	1.74	2.16	0.41	-0.97	-0.83	-0.97	-1.75	-1.40	-1.48	-1.31	-1.44	-1.31	-1.01	-0.75	-0.41	0.11	0.26	0.80	0.58	0.72	-0.07	2.16	-1.75
9	1.08	1.62	1.77	1.25	1.11	0.76	0.09	-0.78	-1.01	-1.30	-1.44	-0.99	-1.07	-1.55	-1.16	-1.00	-0.91	-0.59	-0.20	0.32	1.25	2.18	1.63	0.64	0.07	2.18	-1.55
10	1.03	1.70	1.04	2.45	1.73	1.91	0.14	-0.75	-1.03	-1.40	-1.76	-1.28	-0.97	-1.34	-1.02	-1.41	-1.06	-0.87	-0.45	0.16	0.23	0.39	1.11	1.42	0.00	2.45	-1.76
11	1.74	0.98	0.81	1.40	1.40	1.44	0.14	-0.67	-0.63	-0.86	-1.28	-1.57	-1.54	-1.22	-1.33	-1.57	-1.04	-0.51	-0.25	0.21	0.64	1.69	1.81	1.68	0.06	1.81	-1.57
12	1.78	1.78	1.78	1.50	1.40	0.60	-0.12	-1.14	-1.15	-1.61	-1.64	-2.26	-1.75	-1.92	-1.12	-1.09	-1.18	-0.89	-0.39	0.08	0.31	1.08	0.95	0.99	-0.17	1.78	-2.26
13	0.51	0.36	0.51	0.90	0.82	0.44	-0.39	-0.72	-1.51	-1.33	-2.07	-2.62	-1.78	-1.51	-1.51	-1.36	-1.36	-0.72	-0.29	0.05	0.21	0.46	0.90	1.46	-0.44	1.46	-2.62
14	1.64	1.26	1.15	1.04	0.70	0.88	0.22	-1.19	-1.74	-1.35	-1.34	-1.74	-1.83	-1.33	-1.24	-1.17	-1.07	-0.64	-0.36	0.18	0.75	1.69	2.66	2.95	0.01	2.95	-1.83
15	2.97	2.89	2.08	1.93	1.46	1.05	0.21	-0.96	-1.00	-1.60	-1.60	-1.83	-2.38	-2.02	-1.74	-1.24	-0.67	-0.54	-0.13	0.32	0.58	1.31	1.69	0.98	0.07	2.97	-2.38
16	1.17	1.21	1.54	1.65	1.51	1.02	0.00	-1.13	-1.51	-2.07	-1.03	-1.16	-1.53	-1.67	-1.30	-1.12	-0.74	-0.54	-0.18	0.16	0.52	1.41	1.63	1.92	-0.01	1.92	-2.07
17	0.61	0.26	0.12	0.22	0.73	0.74	-0.10	-0.78	-1.40	-1.63	-2.12	-1.41	-1.97	-1.70	-1.38	-1.24	-0.81	-0.65	-0.35	-0.14	-0.01	0.07	0.13	0.14	-0.53	0.74	-2.12
18	0.11	0.56	0.73	0.74	0.70	0.51	-0.47	-0.79	-1.65	-1.88	-2.02	-1.89	-1.20	-1.51	-0.96	-1.31	-0.85	-0.71	-0.40	0.01	0.36	0.44	0.83	1.18	-0.40	1.18	-2.02
19	0.95	1.28	1.24	1.76	1.65	1.19	0.47	-0.83	-0.97	-0.86	-1.26	-1.42	-1.58	-1.38	-1.63	-1.07	-1.10	-0.80	-0.40	0.09	0.47	1.24	1.82	0.72	-0.02	1.82	-1.63
20	1.70	1.16	1.67	1.66	1.82	1.49	1.04	-0.61	-0.98	-0.66	-0.84	-0.91	-1.19	-1.12	-1.11	-1.15	-0.87	-0.70	-0.30	0.17	0.29	0.84	1.30	0.59	0.14	1.82	-1.19
21	0.61	1.31	1.15	1.18	1.05	1.42	0.40	-0.73	-1.12	-0.98	-1.00	-1.11	-1.41	-1.36	-1.35	-1.22	-1.02	-0.76	-0.43	0.03	0.13	0.77	1.21	1.50	-0.07	1.50	-1.41
22	1.04	0.72	0.75	0.93	1.51	1.05	0.15	-1.25	-1.35	-1.24	-1.61	-1.48	-1.39	-1.39	-1.74	-1.54	-1.21	-0.87	-0.42	0.15	0.63	0.89	1.34	1.73	-0.19	1.73	-1.74
23	1.93	2.34	2.08	1.71	1.88	1.68	0.78	-0.88	-1.26	-1.41	-1.47	-1.63	-1.88	-1.37	-1.13	-1.18	-0.95	-0.66	-0.32	0.27	0.59	2.63	1.77	1.81	0.22	2.63	-1.88
24	2.18	1.80	1.98	1.53	1.30	1.71	1.24	-1.00	-1.03	-1.62	-1.45	-1.70	-1.58	-1.13	-1.12	-1.37	-1.06	-0.64	-0.37	0.17	0.82	1.40	1.13	1.69	0.12	2.18	-1.70
25	1.45	1.22	1.67	1.22	1.80	1.47	0.89	-0.95	-0.73	-1.35	-1.89	-2.01	-1.89	-2.04	-1.69	-1.09	-0.91	-0.89	-0.34	0.31	0.78	0.85	0.81	1.77	-0.06	1.80	-2.04
26	2.00	1.66	0.91	1.12	1.34	1.26	0.79	-0.60	-1.26	-1.74	-1.13	-0.96	-1.11	-2.06	-1.39	-1.44	-0.90	-0.61	-0.17	0.17	0.36	0.23	0.22	0.38	-0.12	2.00	-2.06
27	0.36	0.41	0.37	0.77	0.63	0.69	0.10	-0.73	-0.75	-0.89	-1.01	-1.39	-1.78	-1.60	-1.43	-1.21	-1.00	-0.81	-0.47	0.03	0.19	0.27	0.20	0.62	-0.35	0.77	-1.78
28	1.69	2.16	1.97	1.69	1.75	1.21	0.41	-0.86	-0.76	-1.09	-1.13	-1.49	-1.44	-1.31	-1.28	-1.67	-1.12	-1.26	-0.51	0.00	0.17	1.03	1.70	1.51	0.06	2.16	-1.67
29	0.93	0.78	1.43	1.22	1.55	1.97	0.12	-0.69	-1.12	-1.32	-1.09	-1.67	-1.53	-1.42	-1.32	-1.23	-1.20	-0.88	-0.48	-0.08	0.18	0.64	0.62	0.48	-0.17	1.97	-1.67
30	1.12	0.74	0.49	0.67	1.61	1.04	0.13	-0.87	-1.17	-0.92	-0.88	-1.00	-1.13	-1.22	-1.45	-1.48	-1.31	-0.81	-0.34	0.18	0.62	1.00	0.76	1.73	-0.10	1.73	-1.48
Avg	1.50	1.52	1.49	1.51	1.52	1.32	0.35	-0.87	-1.10	-1.27	-1.38	-1.50	-1.50	-1.48	-1.33	-1.27	-1.03	-0.73	-0.34	0.18	0.55	1.16	1.25	1.41	0.00	--	--
Max	2.97	2.89	2.91	3.00	2.56	2.42	1.47	-0.50	-0.63	-0.66	-0.84	-0.91	-0.97	-1.06	-0.84	-0.95	-0.67	-0.51	-0.13	0.98	1.52	2.68	2.66	2.95	--	3.00	--
Min	0.11	0.26	0.12	0.22	0.63	0.44	-0.47	-1.25	-1.74	-2.07	-2.12	-2.62	-2.38	-2.06	-2.15	-1.67	-1.36	-1.26	-0.51	-0.14	-0.01	0.07	0.13	0.14	--	--	-2.62

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Apr 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	15.2	15.5	15.7	15.9	14.3	13.4	12.8	14.7	16.7	18.4	20.3	20.3	20.6	21.2	21.7	22.1	21.5	20.4	18.9	17.2	16.2	15.3	14.2	13.4	17.3	22.1	12.8
2	12.7	12.4	11.9	11.1	10.3	9.4	8.8	9.6	12.1	13.8	15.1	14.9	14.5	15.5	15.8	15.8	15.2	14.9	13.0	12.5	12.0	10.2	10.1	9.9	12.6	15.8	8.8
3	9.3	8.6	8.0	7.4	6.8	6.7	6.3	8.0	10.5	12.3	13.6	15.0	15.2	16.3	17.0	17.3	17.1	16.6	15.7	14.7	13.5	12.6	12.0	11.7	12.2	17.3	6.3
4	11.0	11.3	11.2	11.0	10.5	10.6	11.1	12.9	15.7	18.3	20.2	21.6	21.7	22.1	22.9	22.0	21.4	20.7	19.4	18.6	17.3	16.4	15.4	15.1	16.6	22.9	10.5
5	13.7	13.8	13.9	13.2	12.4	11.8	11.3	12.6	14.8	16.6	17.9	18.7	19.5	19.7	20.0	20.2	19.6	19.2	18.0	17.0	16.7	16.1	14.7	14.0	16.1	20.2	11.3
6	13.2	12.9	12.5	11.9	11.5	10.9	10.7	13.5	15.4	17.6	18.0	19.4	20.1	20.7	21.4	21.8	22.0	21.5	20.4	19.4	18.9	17.9	16.4	16.1	16.8	22.0	10.7
7	16.1	17.2	16.9	16.0	15.3	15.2	14.1	16.3	18.7	20.5	21.8	23.4	24.6	25.7	26.3	27.1	26.8	25.4	24.1	22.7	21.7	20.2	19.1	19.5	20.6	27.1	14.1
8	19.2	18.6	18.2	18.7	18.4	17.8	18.2	19.4	22.2	25.5	26.8	27.8	29.3	30.0	31.0	30.0	29.7	28.9	27.2	25.3	23.2	22.6	21.9	20.7	23.8	31.0	17.8
9	20.2	20.0	20.8	21.2	21.0	20.6	20.8	21.6	24.0	26.9	27.7	29.1	29.4	29.7	29.9	29.9	29.9	29.0	27.0	25.1	23.8	23.1	21.9	21.5	24.8	29.9	20.0
10	21.1	20.3	20.4	19.9	19.3	18.7	19.7	21.0	23.7	26.2	28.7	30.0	30.6	31.4	31.4	31.6	30.8	29.9	28.6	27.5	27.0	25.4	23.6	22.8	25.4	31.6	18.7
11	22.5	22.0	22.0	21.9	21.5	21.5	20.9	22.6	24.5	26.7	28.0	29.4	30.0	29.0	29.8	30.3	30.3	29.7	28.8	27.2	25.8	24.9	24.0	23.2	25.7	30.3	20.9
12	22.4	21.6	21.0	20.6	19.7	18.9	18.6	21.2	22.7	24.2	25.0	25.2	25.3	26.1	25.4	25.3	25.4	24.6	23.5	22.1	20.8	19.5	19.1	18.0	22.3	26.1	18.0
13	17.5	16.5	16.0	15.2	14.7	14.5	14.9	17.4	19.2	21.1	22.5	23.4	23.8	24.5	25.7	25.7	25.7	24.9	23.7	22.5	21.4	21.0	20.5	20.2	20.5	25.7	14.5
14	19.6	18.2	16.9	16.4	15.9	15.2	14.4	15.0	16.1	17.5	18.6	20.1	21.3	22.5	23.9	24.3	24.7	24.2	23.1	22.0	21.1	21.0	19.3	19.0	19.6	24.7	14.4
15	17.7	16.8	15.8	16.8	18.5	17.5	17.9	18.9	20.1	21.3	22.7	24.6	26.2	26.4	27.8	28.3	27.7	27.5	25.7	23.8	21.5	20.3	19.6	19.0	21.8	28.3	15.8
16	18.2	17.4	17.1	17.2	16.5	16.2	16.4	20.3	22.6	24.3	25.6	25.7	26.0	27.3	27.5	27.3	27.1	26.5	25.4	23.9	22.5	21.9	21.3	20.9	22.3	27.5	16.2
17	20.0	19.6	18.7	17.7	17.3	17.2	18.5	21.2	23.0	23.8	25.5	26.3	27.9	28.5	29.2	29.6	29.1	28.4	26.9	25.8	24.3	23.1	23.2	22.1	23.6	29.6	17.2
18	22.6	22.0	19.9	19.0	18.6	18.2	18.6	19.9	21.7	23.7	24.1	23.7	23.1	23.1	23.1	21.8	21.3	21.5	21.1	20.4	20.0	20.0	19.9	19.6	21.1	24.1	18.2
19	19.6	19.4	19.2	18.7	18.3	18.0	18.5	18.6	19.0	20.3	21.2	23.3	22.2	22.6	23.9	24.5	24.7	24.3	23.6	22.6	22.4	22.0	20.9	20.2	21.2	24.7	18.0
20	19.5	18.4	17.6	17.0	17.6	16.2	16.3	19.4	21.0	22.6	24.3	25.6	26.7	27.2	27.3	27.6	27.5	27.1	26.1	24.8	24.0	23.5	21.9	21.3	22.5	27.6	16.2
21	21.3	20.8	20.1	20.0	19.6	20.3	21.4	22.8	24.9	27.1	28.3	30.1	30.6	31.0	31.1	31.0	30.6	30.3	28.9	27.6	26.6	26.1	24.2	23.3	25.7	31.1	19.6
22	22.7	22.4	21.9	21.7	20.8	20.3	21.1	24.1	25.5	26.5	27.7	29.2	29.6	31.1	31.4	30.8	30.5	29.5	28.2	27.0	25.6	24.2	23.0	21.5	25.7	31.4	20.3
23	20.4	19.4	19.0	18.5	17.7	17.0	17.1	19.3	20.8	21.4	21.7	24.1	24.8	25.2	25.0	24.7	24.9	24.0	23.0	21.6	20.4	19.4	18.5	18.2	21.1	25.2	17.0
24	17.7	17.1	16.7	16.5	16.3	17.0	18.4	20.2	22.3	24.3	25.3	26.5	26.6	27.1	27.3	27.7	27.1	26.9	25.5	24.1	23.0	21.5	20.3	19.6	22.3	27.7	16.3
25	19.2	19.0	18.4	18.7	17.8	18.1	17.7	21.1	23.1	24.4	25.7	27.3	28.3	28.1	29.3	29.3	28.8	27.5	26.2	24.8	23.6	22.2	20.9	19.8	23.3	29.3	17.7
26	19.0	18.3	17.7	16.7	16.0	15.7	15.4	15.6	15.5	15.8	15.1	10.6	9.8	12.2	15.7	16.7	16.3	15.8	15.1	14.3	13.1	12.3	12.0	11.1	14.8	19.0	9.8
27	10.7	10.5	10.4	9.9	10.0	9.5	10.1	12.6	13.7	14.8	16.0	16.6	17.9	18.8	19.3	20.0	20.0	19.8	19.0	18.0	16.9	16.5	15.6	15.2	15.1	20.0	9.5
28	15.2	14.5	13.7	13.5	13.1	13.1	13.7	16.6	17.7	19.6	20.5	21.8	22.4	23.2	24.0	24.4	24.6	24.4	23.6	22.1	20.4	20.1	19.8	20.5	19.3	24.6	13.1
29	19.8	19.2	18.4	17.7	16.5	15.0	14.9	15.6	16.5	17.7	18.6	20.2	21.7	22.6	23.2	23.6	23.7	23.4	22.5	21.0	20.0	19.0	18.1	17.3	19.4	23.7	14.9
30	16.6	15.9	15.3	14.5	14.5	14.6	15.3	16.9	17.8	19.7	21.3	22.7	23.6	24.3	25.1	25.7	25.5	25.2	24.3	23.0	21.9	20.1	19.0	18.3	20.0	25.7	14.5
Avg	17.8	17.3	16.8	16.5	16.0	15.6	15.8	17.6	19.4	21.1	22.3	23.2	23.8	24.4	25.1	25.2	25.0	24.4	23.2	21.9	20.9	20.0	19.0	18.4	20.5	--	--
Max	22.7	22.4	22.0	21.9	21.5	21.5	21.4	24.1	25.5	27.1	28.7	30.1	30.6	31.4	31.4	31.6	30.8	30.3	28.9	27.6	27.0	26.1	24.2	23.3	--	31.6	--
Min	9.3	8.6	8.0	7.4	6.8	6.7	6.3	8.0	10.5	12.3	13.6	10.6	9.8	12.2	15.7	15.8	15.2	14.9	13.0	12.5	12.0	10.2	10.1	9.9	--	--	6.3

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: May 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	18.3	18.2	18.0	17.6	17.2	16.9	16.7	17.9	19.5	20.9	22.3	23.9	25.1	25.8	26.9	27.7	27.6	27.1	26.5	25.3	24.4	24.0	22.7	21.2	22.1	27.7	16.7
2	19.9	19.3	18.7	19.6	19.3	18.0	18.9	21.3	22.8	24.5	26.5	27.5	28.2	29.9	30.5	30.0	29.9	29.3	28.0	26.1	25.1	23.6	22.9	23.1	24.3	30.5	18.0
3	21.3	21.3	21.3	20.9	20.7	20.3	20.2	25.0	27.0	28.8	29.7	31.3	31.9	32.3	32.4	32.6	32.4	31.7	30.7	29.0	28.0	25.7	25.0	24.0	26.8	32.6	20.2
4	23.2	23.6	22.3	21.8	21.2	21.5	23.2	25.0	27.8	29.3	30.5	32.0	32.1	32.3	33.1	33.6	32.4	31.8	30.6	28.7	26.7	25.9	24.7	24.2	27.4	33.6	21.2
5	23.4	22.7	22.2	21.3	21.4	20.8	22.7	25.0	27.0	28.0	29.8	29.9	30.3	31.0	31.7	31.3	31.0	29.8	28.1	26.7	25.5	24.1	22.6	21.6	26.2	31.7	20.8
6	20.8	19.9	19.5	19.1	18.2	18.2	18.9	21.3	22.7	24.0	24.9	25.6	26.5	26.5	27.1	26.3	24.4	21.7	19.7	18.6	17.8	16.7	16.1	15.6	21.3	27.1	15.6
7	15.2	14.3	13.6	13.1	12.2	11.5	11.7	13.2	15.8	16.7	17.6	17.7	18.5	19.2	19.5	19.2	19.3	18.9	18.2	17.2	16.8	15.8	15.4	15.5	16.1	19.5	11.5
8	15.3	14.4	14.0	14.2	13.4	13.1	14.0	16.4	18.1	18.9	20.1	21.9	21.7	22.6	23.7	23.5	23.6	23.0	22.2	21.2	20.4	19.3	18.5	17.6	18.8	23.7	13.1
9	17.0	16.7	16.1	16.2	16.0	15.4	16.7	19.9	21.6	22.7	23.3	24.1	24.6	24.5	24.5	25.3	24.9	25.1	24.1	23.0	22.1	21.0	20.0	19.6	21.0	25.3	15.4
10	19.4	18.7	18.2	19.2	18.1	18.0	18.3	21.7	23.6	25.0	26.7	27.1	27.8	28.2	29.3	30.1	30.1	29.0	28.3	26.8	25.5	23.9	22.7	21.9	24.1	30.1	18.0
11	21.4	20.5	19.8	19.0	18.3	16.7	16.6	17.2	18.9	19.7	20.7	22.1	22.1	21.7	21.3	21.3	21.1	20.6	19.8	18.7	17.6	17.2	16.6	15.6	19.4	22.1	15.6
12	15.6	16.4	14.8	15.5	16.2	15.3	15.5	16.8	18.4	19.5	21.1	22.8	23.4	24.3	25.3	26.2	26.1	25.4	24.6	22.5	21.2	20.7	21.2	20.5	20.4	26.2	14.8
13	19.6	18.7	18.4	17.9	17.3	16.7	16.8	17.4	18.4	20.0	21.7	23.5	24.4	25.5	26.6	26.8	26.3	25.9	24.8	23.3	22.2	21.7	21.6	21.4	21.5	26.8	16.7
14	21.3	20.8	19.7	19.1	18.6	18.4	18.6	19.9	20.8	22.2	23.5	24.3	25.6	26.8	27.8	28.4	28.9	28.4	27.3	26.2	25.0	25.0	24.5	23.5	23.5	28.9	18.4
15	22.4	21.8	21.4	20.8	20.0	19.8	19.5	22.4	24.5	26.0	27.9	29.3	30.0	30.8	31.5	32.4	33.2	32.2	31.2	29.1	27.3	26.4	25.5	27.3	26.4	33.2	19.5
16	24.6	24.3	24.1	24.1	24.9	22.8	23.0	26.0	28.9	30.0	31.2	31.8	32.7	33.3	33.7	33.8	33.5	33.2	31.8	30.6	29.7	27.5	26.8	26.5	28.7	33.8	22.8
17	25.7	25.2	24.0	23.2	22.7	22.2	23.1	26.8	28.4	29.8	31.2	32.7	33.2	34.0	34.3	34.2	34.1	33.6	32.6	30.8	29.3	27.5	26.1	26.1	28.8	34.3	22.2
18	25.1	24.3	23.4	22.3	23.5	22.6	24.0	26.2	27.5	29.3	30.5	31.7	33.3	33.3	32.6	32.3	32.8	32.6	31.5	29.7	27.7	26.8	25.9	25.3	28.1	33.3	22.3
19	24.3	24.1	23.4	22.9	21.7	21.4	22.7	25.3	27.0	28.5	29.8	30.6	32.6	32.6	32.8	33.5	32.5	32.7	31.4	29.8	28.4	26.7	25.3	23.7	27.7	33.5	21.4
20	23.2	22.6	21.9	21.6	20.8	20.4	22.2	24.8	26.5	28.1	29.6	30.6	31.9	31.9	32.5	32.6	31.8	30.6	29.3	28.0	27.1	25.8	24.4	22.3	26.7	32.6	20.4
21	21.6	21.7	21.3	20.4	19.7	19.1	20.6	22.1	24.9	26.7	28.0	28.4	28.4	29.1	29.2	30.0	29.8	29.0	27.6	25.8	24.5	23.0	21.3	20.3	24.7	30.0	19.1
22	19.6	19.5	18.9	18.6	17.3	17.2	17.9	20.4	22.8	24.2	27.8	28.7	29.1	28.8	29.5	29.2	29.1	28.4	27.0	25.1	23.6	23.3	22.8	22.0	23.8	29.5	17.2
23	21.2	20.0	19.3	18.2	17.3	17.0	17.0	18.9	21.1	23.5	24.6	26.4	26.7	27.8	27.5	27.1	26.4	25.8	24.8	23.6	22.9	22.8	21.2	20.1	22.5	27.8	17.0
24	18.8	18.3	17.6	17.7	17.1	16.9	17.5	18.6	20.9	22.4	23.8	25.0	25.8	26.7	27.3	27.2	26.4	25.9	25.5	25.0	24.7	23.7	22.7	22.5	22.4	27.3	16.9
25	22.8	21.8	21.7	21.7	21.5	20.8	21.5	23.2	25.0	25.8	26.6	27.1	28.4	28.6	28.8	29.1	29.4	29.4	28.8	27.5	26.2	25.5	24.7	24.1	25.4	29.4	20.8
26	23.6	23.3	22.6	22.2	21.8	21.5	22.5	25.1	26.4	27.7	28.8	30.2	31.2	32.8	33.1	33.5	33.4	33.1	32.3	30.8	30.2	29.6	27.4	27.3	27.9	33.5	21.5
27	26.2	25.9	25.7	24.7	24.2	23.4	24.4	27.3	29.4	31.3	32.8	34.6	36.1	36.1	35.8	36.1	36.0	35.5	34.6	33.1	32.3	31.3	29.3	27.9	30.6	36.1	23.4
28	27.0	26.0	25.9	25.2	24.9	25.7	26.8	29.0	30.1	31.3	32.2	33.3	33.2	33.2	34.3	35.2	35.1	34.7	33.3	32.1	30.9	30.4	29.2	28.8	30.3	35.2	24.9
29	27.7	27.2	26.6	26.2	25.3	25.0	25.1	26.8	27.3	27.7	28.1	28.8	28.4	28.2	29.2	30.7	32.0	32.0	31.1	29.8	28.9	28.5	28.1	27.8	28.2	32.0	25.0
30	27.5	27.1	26.7	26.4	26.1	25.6	26.9	28.8	30.4	31.8	32.9	33.6	34.6	34.7	35.3	35.6	35.5	34.9	33.9	32.6	31.5	31.3	29.3	28.5	30.9	35.6	25.6
31	27.9	27.3	26.5	26.2	25.6	25.8	27.2	28.8	29.9	31.9	33.2	34.3	35.5	37.0	36.5	36.6	36.0	35.8	35.1	33.6	32.2	30.9	29.6	28.4	31.3	37.0	25.6
Avg	22.0	21.5	20.9	20.5	20.1	19.6	20.3	22.5	24.3	25.7	27.0	28.1	28.8	29.3	29.8	30.1	29.8	29.3	28.2	26.8	25.7	24.7	23.7	23.0	25.1	--	--
Max	27.9	27.3	26.7	26.4	26.1	25.8	27.2	29.0	30.4	31.9	33.2	34.6	36.1	37.0	36.5	36.6	36.0	35.8	35.1	33.6	32.3	31.3	29.6	28.8	--	37.0	--
Min	15.2	14.3	13.6	13.1	12.2	11.5	11.7	13.2	15.8	16.7	17.6	17.7	18.5	19.2	19.5	19.2	19.3	18.9	18.2	17.2	16.8	15.8	15.4	15.5	--	--	11.5

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Jun 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	27.5	26.6	26.0	24.8	24.6	24.6	25.8	28.6	30.3	31.6	32.6	33.6	34.2	35.1	35.3	35.7	35.4	35.0	34.1	32.7	31.6	30.5	29.1	27.5	30.5	35.7	24.6
2	26.9	26.3	26.0	25.5	25.5	26.9	27.9	30.9	32.6	33.5	34.7	35.8	36.1	37.0	36.9	37.3	37.1	36.5	36.2	34.0	32.4	31.2	30.1	29.3	31.9	37.3	25.5
3	29.2	27.7	27.1	27.5	26.6	25.8	27.9	30.6	32.3	33.8	35.0	34.7	35.3	36.0	35.8	36.6	36.9	36.1	35.6	33.8	32.1	29.9	29.5	28.3	31.8	36.9	25.8
4	27.5	27.2	26.4	25.9	25.6	25.0	26.5	30.7	32.6	33.8	34.4	35.6	35.9	36.1	36.4	36.6	36.2	35.7	34.8	33.2	31.5	29.6	28.5	27.6	31.4	36.6	25.0
5	27.3	26.2	25.9	25.3	24.7	24.3	25.7	29.2	31.8	32.9	34.0	35.0	35.5	35.8	36.2	36.6	36.4	35.9	34.9	33.0	31.2	29.4	28.5	27.3	31.0	36.6	24.3
6	26.6	26.1	25.3	24.2	24.2	23.9	27.5	29.5	30.8	32.2	33.2	35.1	35.0	35.6	35.6	35.7	35.8	35.0	34.1	32.5	30.9	30.2	28.9	27.3	30.6	35.8	23.9
7	26.6	25.8	25.3	24.8	23.8	23.3	25.1	28.6	30.4	32.1	33.7	34.9	35.5	35.7	36.3	35.6	35.6	34.9	34.0	32.6	31.2	29.4	28.3	27.6	30.5	36.3	23.3
8	27.0	26.1	25.8	24.6	24.2	24.0	25.2	29.0	29.8	31.1	32.8	33.3	34.0	34.1	34.8	35.2	35.1	34.7	33.8	32.5	31.5	30.6	30.2	29.3	30.4	35.2	24.0
9	28.0	27.7	26.8	26.8	27.0	24.7	26.5	30.2	31.4	32.9	34.4	35.1	36.5	37.8	37.5	37.6	37.6	36.8	35.8	34.0	32.2	31.1	30.2	29.8	32.0	37.8	24.7
10	29.1	28.3	27.3	26.9	26.7	26.3	26.0	28.7	30.4	32.1	33.6	34.2	34.6	36.1	36.5	37.4	37.0	36.9	36.5	34.8	33.3	31.8	29.9	28.7	31.8	37.4	26.0
11	27.9	28.0	27.4	26.0	25.3	25.1	26.6	28.5	29.5	30.5	31.7	32.9	33.8	34.1	34.8	35.8	35.5	34.2	33.5	32.1	30.5	29.0	28.3	27.6	30.4	35.8	25.1
12	26.8	26.3	26.0	25.5	24.6	25.5	27.0	29.7	31.1	32.9	33.6	35.3	35.6	36.7	35.5	36.1	36.4	36.0	35.1	33.9	33.1	31.6	30.9	30.4	31.5	36.7	24.6
13	29.6	29.2	28.4	27.4	26.6	26.7	27.7	28.9	30.7	31.4	33.2	34.9	34.7	35.3	35.9	36.3	36.7	35.9	35.0	33.7	32.6	31.2	30.0	29.0	31.7	36.7	26.6
14	28.4	28.1	27.2	26.4	26.2	25.8	26.4	28.6	30.2	30.6	31.1	32.6	33.4	33.5	33.8	34.0	34.0	33.4	32.6	31.0	29.3	27.9	26.6	26.2	29.9	34.0	25.8
15	25.5	24.6	24.8	24.6	24.3	23.6	24.3	27.4	28.6	30.6	31.4	32.7	34.8	35.1	35.3	34.6	33.2	32.6	31.4	30.2	29.3	28.1	27.3	27.1	29.2	35.3	23.6
16	26.4	25.9	25.2	24.8	24.7	25.1	26.5	29.0	30.7	32.2	31.9	32.6	33.8	35.0	35.0	35.0	34.4	33.9	32.9	31.8	30.3	28.6	27.8	27.5	30.0	35.0	24.7
17	28.5	28.0	27.3	26.6	25.4	25.1	26.1	28.0	29.8	30.8	32.2	31.9	33.7	34.0	34.4	34.7	34.2	34.1	33.0	32.0	30.8	29.6	28.5	27.5	30.3	34.7	25.1
18	26.5	25.4	24.9	24.3	24.0	24.1	25.6	26.7	28.7	29.8	30.6	31.3	31.3	32.0	31.8	33.0	32.3	32.0	31.1	29.8	28.4	27.5	26.9	26.0	28.5	33.0	24.0
19	24.9	24.4	23.9	23.4	22.9	22.5	24.0	26.9	28.6	29.8	31.3	32.6	33.4	33.8	34.5	34.3	34.1	33.9	32.9	31.6	30.3	28.8	28.1	27.8	29.1	34.5	22.5
20	26.7	26.2	26.1	25.7	25.3	25.3	26.5	29.8	31.9	32.4	33.8	35.2	36.4	36.8	37.3	37.4	37.0	36.4	35.3	33.9	32.7	31.8	30.7	31.5	31.8	37.4	25.3
21	30.5	28.3	28.3	27.4	26.1	25.3	26.3	28.7	30.2	31.6	33.0	34.3	35.5	35.9	36.3	36.4	36.2	35.8	35.2	33.9	33.1	31.3	29.9	29.2	31.6	36.4	25.3
22	29.0	28.6	27.3	26.5	25.4	25.5	26.6	29.2	30.9	32.1	33.6	34.3	34.6	35.2	36.3	36.5	36.5	36.0	35.1	33.6	32.3	30.7	29.2	28.2	31.4	36.5	25.4
23	27.5	26.8	26.2	26.4	25.1	23.9	25.3	28.7	30.2	31.4	32.8	34.0	35.1	35.0	34.8	35.5	35.7	35.5	35.0	33.3	31.9	29.5	29.5	28.5	30.7	35.7	23.9
24	27.4	26.6	26.3	25.7	25.1	24.6	25.4	28.5	29.7	31.5	32.3	33.6	34.3	34.5	35.0	35.7	35.6	35.0	34.4	33.1	31.8	30.0	28.8	28.1	30.5	35.7	24.6
25	27.5	26.8	26.6	25.4	24.9	25.0	25.9	28.8	29.5	31.8	33.5	34.4	34.7	36.0	36.3	35.9	36.1	36.6	35.7	34.1	32.2	31.6	30.6	28.9	31.2	36.6	24.9
26	28.0	28.0	27.6	26.8	26.0	25.7	26.6	29.0	30.6	32.0	32.2	33.0	33.8	36.2	35.9	36.6	36.0	35.6	34.6	33.0	31.8	30.7	29.7	28.4	31.2	36.6	25.7
27	27.9	26.9	26.2	25.2	24.7	24.2	25.1	26.7	27.3	28.4	29.5	31.5	32.9	33.6	33.8	34.3	34.1	33.9	33.0	31.7	30.9	30.5	29.9	28.3	29.6	34.3	24.2
28	27.1	26.9	26.5	25.5	25.4	24.9	25.7	28.7	29.7	31.2	32.3	33.2	34.1	34.8	35.3	36.4	36.0	36.3	35.1	33.9	33.2	31.3	30.4	29.9	31.0	36.4	24.9
29	28.7	28.5	27.5	26.5	26.1	25.7	27.6	28.9	31.5	32.5	33.2	34.9	35.3	36.2	36.7	36.7	36.8	36.6	35.6	34.8	33.9	32.8	32.1	30.9	32.1	36.8	25.7
30	29.5	29.5	28.4	27.5	26.6	25.8	26.7	29.9	31.5	32.4	33.3	34.2	35.3	36.1	36.8	37.3	37.4	36.9	36.1	34.5	33.1	32.0	31.7	30.4	32.2	37.4	25.8
Avg	27.7	27.0	26.5	25.8	25.3	24.9	26.2	28.9	30.4	31.7	32.8	33.9	34.6	35.3	35.6	35.9	35.7	35.3	34.4	33.0	31.7	30.3	29.3	28.5	30.9	--	--
Max	30.5	29.5	28.4	27.5	27.0	26.9	27.9	30.9	32.6	33.8	35.0	35.8	36.5	37.8	37.5	37.6	37.6	36.9	36.5	34.8	33.9	32.8	32.1	31.5	--	37.8	--
Min	24.9	24.4	23.9	23.4	22.9	22.5	24.0	26.7	27.3	28.4	29.5	31.3	31.3	32.0	31.8	33.0	32.3	32.0	31.1	29.8	28.4	27.5	26.6	26.0	--	--	22.5

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Apr 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	9	235	487	698	855	948	973	928	820	654	443	210	22	0	0	0	0	0	303	973	0
2	0	0	0	0	0	0	13	230	486	687	593	605	724	944	829	673	347	231	9	0	0	0	0	0	265	944	0
3	0	0	0	0	0	0	13	247	495	707	859	951	975	926	821	656	446	215	25	0	0	0	0	0	306	975	0
4	0	0	0	0	0	0	23	254	510	722	872	961	981	933	825	546	320	158	15	0	0	0	0	0	297	981	0
5	0	0	0	0	0	0	20	192	487	701	855	950	981	878	785	646	402	218	26	0	0	0	0	0	297	981	0
6	0	0	0	0	0	0	18	267	503	711	865	956	979	933	827	665	454	213	32	0	0	0	0	0	309	979	0
7	0	0	0	0	0	0	21	281	521	729	884	969	988	943	835	668	455	215	33	0	0	0	0	0	314	988	0
8	0	0	0	0	0	0	26	285	519	729	876	963	987	935	834	669	458	214	33	0	0	0	0	0	314	987	0
9	0	0	0	0	0	0	45	225	524	737	854	883	848	784	705	640	474	211	26	0	0	0	0	0	290	883	0
10	0	0	0	0	0	0	38	234	424	678	897	981	997	947	821	665	441	192	32	0	0	0	0	0	306	997	0
11	0	0	0	0	0	0	42	185	375	689	877	867	589	427	694	654	445	231	31	0	0	0	0	0	254	877	0
12	0	0	0	0	0	0	39	264	498	605	771	867	828	858	711	631	477	237	39	0	0	0	0	0	284	867	0
13	0	0	0	0	0	0	42	298	535	746	895	975	993	948	839	677	469	237	41	0	0	0	0	0	321	993	0
14	0	0	0	0	0	0	47	325	575	787	927	997	1015	974	871	711	495	256	46	0	0	0	0	0	334	1015	0
15	0	0	0	0	0	0	49	327	578	726	849	909	877	738	832	735	497	250	47	0	0	0	0	0	309	909	0
16	0	0	0	0	0	0	53	325	566	773	916	995	1015	971	802	599	488	249	45	0	0	0	0	0	325	1015	0
17	0	0	0	0	0	0	55	318	552	755	897	973	993	948	847	684	450	186	32	0	0	0	0	0	320	993	0
18	0	0	0	0	0	0	29	122	264	482	365	311	185	123	137	122	119	49	28	0	0	0	0	0	97	482	0
19	0	0	0	0	0	0	53	148	198	421	255	720	313	715	751	634	427	191	61	0	0	0	0	0	204	751	0
20	0	0	0	0	0	1	61	315	545	743	881	968	1001	960	850	685	469	243	49	0	0	0	0	0	324	1001	0
21	0	0	0	0	0	1	64	320	548	751	893	970	988	944	842	687	480	250	52	0	0	0	0	0	324	988	0
22	0	0	0	0	0	2	67	331	504	751	902	961	947	939	834	596	423	159	30	0	0	0	0	0	310	961	0
23	0	0	0	0	0	1	71	329	572	777	918	999	1019	978	869	707	495	260	56	0	0	0	0	0	335	1019	0
24	0	0	0	0	0	1	77	347	586	786	922	999	977	916	843	712	492	264	57	0	0	0	0	0	332	999	0
25	0	0	0	0	0	1	78	315	521	669	883	982	1013	944	755	608	386	187	41	0	0	0	0	0	308	1013	0
26	0	0	0	0	0	1	38	40	64	133	237	83	244	796	866	695	458	242	52	0	0	0	0	0	165	866	0
27	0	0	0	0	0	2	82	317	552	752	866	985	997	943	862	696	444	265	45	0	0	0	0	0	325	997	0
28	0	0	0	0	0	1	87	359	585	783	930	1010	1030	976	871	703	495	267	64	0	0	0	0	0	340	1030	0
29	0	0	0	0	0	2	96	388	630	832	972	1048	1066	1013	902	731	515	281	69	0	0	0	0	0	356	1066	0
30	0	0	0	0	0	2	99	381	619	816	960	1043	1054	998	885	717	507	278	70	0	0	0	0	0	351	1054	0
Avg	0	0	0	0	0	1	48	273	494	696	817	894	886	875	799	649	442	222	40	0	0	0	0	0	297	--	--
Max	0	0	0	0	0	2	99	388	630	832	972	1048	1066	1013	902	735	515	281	70	0	0	0	0	0	--	1066	--
Min	0	0	0	0	0	0	9	40	64	133	237	83	185	123	137	122	119	49	9	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: May 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	3	92	315	554	764	908	990	1010	958	853	702	497	262	66	0	0	0	0	0	332	1010	0
2	0	0	0	0	0	2	102	370	602	798	939	1017	1033	980	875	710	506	280	71	0	0	0	0	0	345	1033	0
3	0	0	0	0	0	2	105	378	603	794	937	1018	1031	983	879	717	509	280	72	0	0	0	0	0	346	1031	0
4	0	0	0	0	0	3	110	375	604	802	943	1024	1040	989	874	707	500	274	64	0	0	0	0	0	346	1040	0
5	0	0	0	0	0	3	114	380	587	816	918	1012	1035	980	869	709	491	263	59	0	0	0	0	0	343	1035	0
6	0	0	0	0	0	3	116	378	607	806	947	1032	956	873	613	387	245	94	31	5	0	0	0	0	296	1032	0
7	0	0	0	0	0	5	109	307	557	634	915	1019	1042	1004	959	586	506	259	70	0	0	0	0	0	332	1042	0
8	0	0	0	0	0	5	119	365	595	797	938	1023	1040	981	837	725	510	283	78	1	0	0	0	0	346	1040	0
9	0	0	0	0	0	5	123	377	600	793	880	960	833	711	588	564	468	286	74	0	0	0	0	0	303	960	0
10	0	0	0	0	0	4	124	383	605	796	931	1008	1023	976	873	710	510	289	84	1	0	0	0	0	346	1023	0
11	0	0	0	0	0	6	116	303	519	711	866	982	1021	993	897	733	532	303	90	1	0	0	0	0	336	1021	0
12	0	0	0	0	0	5	136	400	629	814	951	1033	1050	999	891	729	521	295	91	1	0	0	0	0	356	1050	0
13	0	0	0	0	0	5	143	419	652	843	982	1056	1065	1016	910	750	541	313	96	1	0	0	0	0	366	1065	0
14	0	0	0	0	0	7	140	403	632	823	964	1032	1052	1000	889	730	523	297	89	1	0	0	0	0	358	1052	0
15	0	0	0	0	0	6	139	401	632	824	958	1036	1047	997	889	726	519	297	90	1	0	0	0	0	357	1047	0
16	0	0	0	0	0	6	138	400	620	815	950	1034	1048	997	895	736	525	315	52	0	0	0	0	0	355	1048	0
17	0	0	0	0	0	10	129	393	615	806	942	1022	1040	980	838	618	529	310	93	1	0	0	0	0	347	1040	0
18	0	0	0	0	0	9	172	340	440	702	843	955	1028	707	515	349	339	285	84	4	0	0	0	0	282	1028	0
19	0	0	0	0	0	4	157	420	642	834	970	1044	1063	1009	899	651	419	356	101	2	0	0	0	0	357	1063	0
20	0	0	0	0	0	6	153	411	636	825	963	1010	988	792	888	727	414	212	67	2	0	0	0	0	337	1010	0
21	0	0	0	0	0	5	153	405	629	822	962	986	974	1003	899	730	534	312	103	2	0	0	0	0	355	1003	0
22	0	0	0	0	0	11	128	371	635	822	963	1038	1012	900	805	732	546	328	99	3	0	0	0	0	350	1038	0
23	0	0	0	0	0	3	73	342	626	829	971	1050	1056	1007	901	740	539	321	104	4	0	0	0	0	357	1056	0
24	0	0	0	0	0	8	66	199	638	818	953	1041	982	992	886	627	328	154	57	2	0	0	0	0	323	1041	0
25	0	0	0	0	0	13	171	390	624	775	927	1007	956	739	649	687	544	324	90	3	0	0	0	0	329	1007	0
26	0	0	0	0	0	8	158	393	606	798	939	1021	1027	957	865	716	512	292	91	2	0	0	0	0	349	1027	0
27	0	0	0	0	0	9	158	390	598	786	933	1013	1029	973	873	719	520	292	99	2	0	0	0	0	350	1029	0
28	0	0	0	0	0	11	192	403	500	814	574	853	552	634	874	733	478	273	48	1	0	0	0	0	289	874	0
29	0	0	0	0	0	14	85	193	241	127	162	271	303	387	506	499	625	393	127	3	0	0	0	0	164	625	0
30	0	0	0	0	0	8	165	400	613	795	937	1018	1033	983	883	734	542	321	117	3	0	0	0	0	356	1033	0
31	0	0	0	0	0	7	159	333	533	757	923	1020	1035	984	889	738	542	316	112	3	0	0	0	0	348	1035	0
Avg	0	0	0	0	0	6	131	366	586	772	900	988	981	919	831	675	494	286	83	2	0	0	0	0	334	--	--
Max	0	0	0	0	0	14	192	420	652	843	982	1056	1065	1016	959	750	625	393	127	5	0	0	0	0	--	1065	--
Min	0	0	0	0	0	2	66	193	241	127	162	271	303	387	506	349	245	94	31	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Jun 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	6	173	416	630	817	958	1039	1055	1002	893	750	535	328	105	7	0	0	0	0	363	1055	0
2	0	0	0	0	0	6	179	426	636	743	909	949	959	938	770	634	425	242	117	4	0	0	0	0	331	959	0
3	0	0	0	0	0	7	185	384	638	828	924	701	1041	842	793	765	505	277	138	8	0	0	0	0	335	1041	0
4	0	0	0	0	0	6	180	428	645	836	976	1057	1071	1021	918	768	569	339	130	3	0	0	0	0	373	1071	0
5	0	0	0	0	0	6	179	426	639	829	973	1058	1075	1022	920	770	570	340	129	4	0	0	0	0	372	1075	0
6	0	0	0	0	0	7	181	433	646	840	981	1064	1083	1028	928	769	568	341	131	4	0	0	0	0	375	1083	0
7	0	0	0	0	0	8	177	423	636	825	962	1045	1062	1014	916	765	568	339	129	4	0	0	0	0	370	1062	0
8	0	0	0	0	0	9	165	401	611	789	935	1009	1021	972	876	729	538	322	123	5	0	0	0	0	354	1021	0
9	0	0	0	0	0	9	169	413	632	817	954	1036	1053	1001	900	753	555	337	130	5	0	0	0	0	365	1053	0
10	0	0	0	0	0	9	162	394	599	782	908	975	963	971	880	727	528	317	128	5	0	0	0	0	348	975	0
11	0	0	0	0	0	9	166	294	612	803	915	1009	1016	969	883	685	499	158	93	6	0	0	0	0	338	1016	0
12	0	0	0	0	0	8	168	403	613	798	933	1011	1033	1007	795	741	547	326	127	5	0	0	0	0	355	1033	0
13	0	0	0	0	0	14	165	398	597	790	909	995	1013	964	872	727	538	325	130	6	0	0	0	0	352	1013	0
14	0	0	0	0	0	9	160	399	622	808	949	1028	1040	1001	907	762	570	350	143	5	0	0	0	0	365	1040	0
15	0	0	0	0	0	8	169	409	633	731	708	786	983	906	834	509	293	269	71	9	0	0	0	0	305	983	0
16	0	0	0	0	0	7	167	408	619	800	936	1002	1031	1008	911	716	539	280	108	6	0	0	0	0	356	1031	0
17	0	0	0	0	0	9	156	397	608	745	847	973	1029	961	890	756	408	318	65	4	0	0	0	0	340	1029	0
18	0	0	0	0	0	11	156	341	625	797	812	942	1032	940	805	750	523	337	138	7	0	0	0	0	342	1032	0
19	0	0	0	0	0	7	164	403	613	798	934	1014	1037	990	897	752	563	344	142	6	0	0	0	0	361	1037	0
20	0	0	0	0	0	7	160	392	602	792	928	1011	1032	989	893	746	554	340	125	7	0	0	0	0	357	1032	0
21	0	0	0	0	0	7	159	390	599	781	918	992	1021	976	886	743	555	340	140	6	0	0	0	0	355	1021	0
22	0	0	0	0	0	7	159	396	607	795	935	1019	1035	984	891	750	563	346	145	6	0	0	0	0	360	1035	0
23	0	0	0	0	0	6	162	400	613	803	942	1029	1047	1002	906	758	568	347	145	7	0	0	0	0	364	1047	0
24	0	0	0	0	0	6	162	410	630	817	955	1030	947	990	879	770	528	363	147	6	0	0	0	0	360	1030	0
25	0	0	0	0	0	7	158	401	614	818	954	1035	1051	1000	899	755	567	350	146	7	0	0	0	0	365	1051	0
26	0	0	0	0	0	5	161	403	615	799	937	1000	1048	961	845	602	242	273	100	8	0	0	0	0	333	1048	0
27	0	0	0	0	0	6	153	388	600	784	921	1004	1027	984	891	747	562	346	148	8	0	0	0	0	357	1027	0
28	0	0	0	0	0	7	148	381	589	774	911	994	1016	976	887	747	565	343	143	8	0	0	0	0	354	1016	0
29	0	0	0	0	0	7	141	357	563	754	888	967	993	953	870	731	550	338	141	9	0	0	0	0	344	993	0
30	0	0	0	0	0	6	147	378	582	764	907	992	1022	980	890	749	563	353	151	8	0	0	0	0	354	1022	0
Avg	0	0	0	0	0	8	164	396	616	795	921	992	1028	978	877	731	522	321	127	6	0	0	0	0	353	--	--
Max	0	0	0	0	0	14	185	433	646	840	981	1064	1083	1028	928	770	570	363	151	9	0	0	0	0	--	1083	--
Min	0	0	0	0	0	5	141	294	563	731	708	701	947	842	770	509	242	158	65	3	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Apr 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	12	13	16	20	21	22	19	17	15	13	11	11	9	12	10	10	11	14	17	20	25	30	37	17	37	9
2	40	42	44	48	49	46	47	43	38	31	31	29	27	23	21	21	24	25	34	35	34	42	41	37	36	49	21
3	37	37	39	41	43	43	46	39	32	29	26	24	24	23	22	20	18	17	19	20	24	26	27	28	29	46	17
4	30	29	30	31	31	31	30	25	21	15	11	9	9	8	9	9	9	9	12	13	15	17	18	14	18	31	8
5	17	17	15	18	22	24	25	24	19	17	14	13	12	11	11	11	11	12	14	16	15	16	19	20	16	25	11
6	22	23	24	25	26	28	29	26	21	18	18	16	16	15	14	14	13	13	13	14	15	16	17	17	19	29	13
7	17	15	15	17	18	19	22	18	15	14	13	11	10	9	8	7	8	10	11	13	14	16	17	15	14	22	7
8	16	16	16	13	13	13	13	12	10	8	7	7	7	6	5	5	5	6	6	7	9	10	11	11	10	16	5
9	12	12	10	9	10	11	11	11	11	9	7	5	5	5	4	4	4	5	6	8	9	10	12	11	8	12	4
10	12	13	12	12	13	13	12	11	10	9	5	5	4	3	3	2	3	3	4	5	5	6	8	8	7	13	2
11	8	8	8	8	8	8	9	8	5	4	3	3	3	4	5	5	5	5	6	8	8	7	7	8	6	9	3
12	8	8	8	9	10	11	12	11	10	10	11	11	11	7	8	10	10	9	10	11	13	14	12	14	10	14	7
13	16	20	22	24	24	24	22	17	14	14	12	12	13	13	13	13	13	14	17	19	21	21	22	23	18	24	12
14	25	12	10	10	12	14	16	17	18	15	14	13	11	9	7	6	5	5	5	5	5	5	6	6	10	25	5
15	7	8	9	8	8	11	12	11	11	11	10	8	6	5	5	3	3	4	6	7	9	10	12	11	8	12	3
16	12	12	12	10	12	12	12	9	9	7	6	6	5	5	5	5	4	5	6	7	8	10	10	11	8	12	4
17	11	12	13	15	15	15	13	11	11	10	9	9	8	8	8	7	7	8	9	9	11	12	11	12	11	15	7
18	12	13	16	19	22	24	25	25	24	23	25	22	20	19	21	25	26	26	28	30	33	33	33	34	24	34	12
19	34	35	35	37	38	39	38	39	38	35	33	29	30	28	24	22	21	21	25	28	29	29	31	33	31	39	21
20	36	38	40	42	40	44	44	35	32	28	26	23	21	20	19	18	17	16	17	19	20	21	24	25	28	44	16
21	25	26	27	27	28	25	24	22	20	17	16	14	13	12	12	11	11	11	13	14	16	16	18	19	18	28	11
22	19	19	21	21	22	23	22	18	18	16	15	14	14	12	11	11	10	10	10	11	13	16	18	18	16	23	10
23	19	22	24	25	27	29	30	25	25	21	20	14	9	7	8	7	7	8	8	9	9	10	11	11	16	30	7
24	12	12	12	12	12	11	10	9	8	7	6	6	6	6	6	5	5	6	6	7	8	9	11	11	8	12	5
25	11	11	12	12	14	15	16	12	11	12	11	10	8	9	8	7	7	8	9	11	13	14	15	18	11	18	7
26	19	19	20	22	24	29	38	43	48	50	56	83	84	69	37	28	24	25	29	33	39	43	44	51	40	84	19
27	51	51	52	54	49	53	51	38	32	30	28	26	23	21	20	18	17	17	19	22	26	26	29	30	33	54	17
28	30	32	35	35	36	35	35	27	23	21	19	19	18	17	16	15	14	14	15	18	21	20	20	13	23	36	13
29	9	9	9	9	10	10	10	8	7	7	7	6	5	4	4	4	4	5	5	6	6	5	6	7	7	10	4
30	8	10	11	13	13	12	11	10	10	9	7	6	6	6	6	6	6	6	7	7	7	9	11	13	9	13	6
Avg	20	20	21	21	22	23	24	21	19	17	16	15	15	13	12	11	11	11	13	14	16	17	18	19	17	--	--
Max	51	51	52	54	49	53	51	43	48	50	56	83	84	69	37	28	26	26	34	35	39	43	44	51	--	84	--
Min	7	8	8	8	8	8	9	8	5	4	3	3	3	3	3	2	3	3	4	5	5	5	6	6	--	--	2

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: May 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	14	16	19	20	22	21	19	18	16	14	12	11	11	9	6	6	7	8	8	6	4	5	6	12	22	4
2	7	7	8	7	8	14	13	12	13	11	10	9	8	7	6	6	6	6	7	9	9	11	12	11	9	14	6
3	13	12	13	12	11	12	12	8	8	6	5	5	5	5	4	4	4	4	5	6	7	8	9	10	8	13	4
4	10	9	10	11	11	10	8	9	6	5	5	4	4	5	4	4	4	5	5	6	7	8	8	8	7	11	4
5	9	9	10	11	10	10	11	12	11	10	8	7	7	6	6	5	5	6	6	7	7	8	10	11	8	12	5
6	12	14	16	16	17	17	17	15	13	10	10	9	9	9	7	7	15	22	28	30	29	25	26	28	17	30	7
7	27	28	30	31	34	35	35	30	24	29	25	24	17	18	20	21	22	24	26	28	29	31	31	31	27	35	17
8	31	33	34	34	36	37	34	29	26	25	24	20	20	19	16	16	16	17	18	20	21	22	24	26	25	37	16
9	27	28	29	28	29	30	27	22	19	16	17	16	15	15	14	13	13	13	14	16	17	19	20	21	20	30	13
10	21	23	23	21	24	23	23	18	16	15	14	14	15	14	12	10	10	11	10	13	14	15	18	20	17	24	10
11	20	22	25	30	33	39	41	34	26	19	18	13	13	12	12	12	9	9	10	12	12	12	14	15	19	41	9
12	18	20	20	21	21	22	22	20	19	18	15	13	11	12	10	9	9	10	9	12	13	12	9	8	15	22	8
13	8	10	10	12	13	14	14	14	14	13	12	9	8	6	5	4	4	4	4	4	4	4	5	6	8	14	4
14	6	9	12	15	16	16	16	14	14	13	11	10	9	9	8	7	6	6	7	8	9	9	9	9	10	16	6
15	10	11	11	11	12	12	13	10	8	8	7	7	6	6	5	5	5	5	5	7	8	9	11	8	8	13	5
16	10	10	9	10	9	11	11	10	8	7	7	6	6	6	5	5	4	4	5	6	6	7	7	8	7	11	4
17	8	8	8	8	9	10	10	7	6	6	5	4	4	4	3	3	3	3	4	4	5	6	6	5	6	10	3
18	5	5	5	6	5	5	5	5	5	4	4	4	4	4	5	5	4	4	5	6	8	8	8	7	5	8	4
19	6	6	6	6	7	7	7	6	6	7	7	8	5	5	5	4	4	3	3	3	4	6	7	9	6	9	3
20	10	11	14	14	14	14	13	12	10	9	7	7	6	5	5	5	4	4	5	6	7	8	8	10	9	14	4
21	10	10	12	13	13	15	14	13	10	8	8	8	9	7	5	5	5	6	7	10	12	13	14	14	10	15	5
22	14	13	15	15	17	17	17	14	11	10	8	7	7	7	7	7	6	5	5	5	7	8	9	10	10	17	5
23	12	13	14	15	16	17	17	16	13	11	10	10	10	8	8	9	10	10	11	13	15	16	22	25	13	25	8
24	28	30	33	33	34	35	34	32	26	22	19	17	16	14	13	12	12	14	15	15	15	17	17	17	22	35	12
25	17	23	28	26	24	26	26	23	20	19	18	18	17	16	16	15	14	14	14	16	18	19	20	21	19	28	14
26	22	21	22	24	26	27	25	21	19	19	18	17	15	14	13	13	12	12	12	14	14	15	17	17	18	27	12
27	18	19	19	20	21	24	23	17	15	14	13	11	10	10	10	10	9	9	9	10	11	11	13	15	14	24	9
28	16	16	16	15	15	15	14	11	10	9	10	9	9	9	9	8	7	8	8	9	10	10	11	12	11	16	7
29	12	11	10	11	12	14	15	14	14	14	16	20	22	23	21	18	17	17	17	18	19	20	20	20	16	23	10
30	21	21	21	22	23	23	22	19	18	17	15	14	13	12	11	10	9	9	11	11	12	11	14	15	16	23	9
31	15	16	17	17	18	17	15	14	13	11	10	10	9	9	9	9	9	9	10	12	13	12	13	13	12	18	9
Avg	15	16	17	17	18	19	19	16	14	13	12	11	10	10	9	9	9	9	10	11	12	12	13	14	13	--	--
Max	31	33	34	34	36	39	41	34	26	29	25	24	22	23	21	21	22	24	28	30	29	31	31	31	--	41	--
Min	5	5	5	6	5	5	5	5	5	4	4	4	4	4	3	3	3	3	3	3	4	4	5	5	--	--	3

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Jun 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	13	13	14	15	14	14	12	10	8	7	7	7	6	6	6	6	7	7	7	8	9	10	11	10	15	6
2	11	11	12	11	11	9	8	7	7	6	6	5	5	4	5	5	5	5	5	6	7	7	8	9	7	12	4
3	10	10	10	9	10	11	10	9	8	7	7	8	8	8	7	6	5	5	5	6	7	8	9	8	8	11	5
4	8	7	7	7	6	7	5	2	2	1	2	3	4	4	4	3	3	3	3	4	5	6	7	6	5	8	1
5	7	8	7	5	6	7	6	4	4	3	3	3	3	3	2	2	2	2	2	3	4	4	4	5	4	8	2
6	5	5	6	6	6	7	4	3	4	3	3	2	3	3	3	3	3	3	3	4	5	5	6	7	4	7	2
7	8	7	7	7	8	8	7	6	5	5	5	5	5	4	3	3	3	3	4	4	5	6	7	8	6	8	3
8	10	11	11	12	14	13	12	9	9	13	14	14	14	14	13	12	12	11	11	11	11	12	12	12	12	14	9
9	13	14	13	12	11	15	10	7	7	6	5	5	4	4	5	4	4	3	4	5	6	7	8	8	8	15	3
10	9	11	10	12	15	22	22	18	20	19	18	17	16	13	11	10	11	11	8	5	6	9	13	16	13	22	5
11	17	18	24	26	27	27	23	17	19	19	18	17	17	17	15	12	8	7	8	11	12	12	12	12	16	27	7
12	13	13	12	16	19	16	15	13	11	9	8	7	7	7	8	8	8	9	11	13	14	15	16	18	12	19	7
13	24	26	28	30	32	33	28	24	20	20	18	16	17	16	15	14	13	14	14	15	17	18	18	16	20	33	13
14	15	14	15	16	15	16	20	20	19	18	17	13	12	9	8	6	5	5	4	4	3	3	3	3	11	20	3
15	4	4	4	5	10	13	15	15	14	10	9	6	6	5	4	4	6	5	6	8	9	10	10	12	8	15	4
16	13	13	11	8	8	9	9	8	8	8	8	8	8	8	8	8	8	9	11	10	9	9	9	8	9	13	8
17	8	12	19	21	21	23	20	19	17	16	15	15	11	12	12	11	12	13	14	17	19	21	23	21	16	23	8
18	22	22	23	24	26	27	25	24	22	21	21	20	18	17	16	15	14	15	15	16	16	16	16	16	19	27	14
19	17	18	18	17	18	19	17	14	11	11	12	13	12	11	10	11	12	12	13	14	15	16	17	17	14	19	10
20	18	19	19	19	21	21	19	14	12	12	11	10	9	9	8	9	9	9	10	11	12	12	13	12	13	21	8
21	13	16	18	19	21	21	20	17	16	14	13	12	11	11	11	11	11	11	12	13	13	15	16	16	15	21	11
22	17	18	18	17	17	17	15	13	11	8	6	4	5	6	6	6	6	6	6	6	7	7	8	9	10	18	4
23	8	8	8	7	10	13	11	8	8	7	6	5	4	4	5	5	5	7	6	5	5	5	5	6	7	13	4
24	7	10	11	12	13	13	12	8	7	6	6	5	5	5	6	5	6	6	6	7	8	9	9	9	8	13	5
25	10	10	11	12	16	17	18	17	16	7	6	5	6	7	9	9	8	7	7	8	10	9	10	12	10	18	5
26	13	13	17	14	11	13	14	13	14	15	15	15	16	12	12	8	6	6	9	11	12	13	14	16	13	17	6
27	16	18	19	21	22	23	21	19	20	19	17	14	12	12	13	12	13	13	13	14	14	15	15	18	16	23	12
28	19	19	20	22	22	24	22	17	16	16	15	15	14	13	13	11	11	11	13	13	14	16	17	20	16	24	11
29	21	21	25	27	27	28	26	23	26	26	25	22	21	19	18	18	17	17	19	16	14	16	17	20	21	28	14
30	23	22	26	28	34	37	33	26	25	24	20	16	13	13	13	13	12	10	9	11	12	14	15	16	19	37	9
Avg	13	14	15	15	16	17	16	13	13	12	11	10	10	9	9	8	8	8	9	9	10	11	12	12	12	--	--
Max	24	26	28	30	34	37	33	26	26	26	25	22	21	19	18	18	17	17	19	17	19	21	23	21	--	37	--
Min	4	4	4	5	6	7	4	2	2	1	2	2	3	3	2	2	2	2	2	3	3	3	3	3	--	--	1

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

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Max	Min
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0.028	0.083	0.15	0	0	0	0	0	0	0	0	0	0	0	0.261	0.15	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0.028	0.083	0.15	0	0	0	0	0	0	0	0	0	0	0	0.261	--	--
Max	0	0	0	0	0	0	0	0	0	0	0.028	0.083	0.15	0	0	0	0	0	0	0	0	0	0	0	--	0.15	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

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

Hour of day

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

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

Hour of day

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

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

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

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

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: Apr 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	12.4	10.1	11.2	14.6	16.8	11.2	12.3	13.4	13.4	11.2	11.3	14.7	28.4	67.2	73.1	21.7	37.7	28.5	30.6	22.6	22.5	21.3	25.7	29.0	23.4	73.1	10.1
2	21.2	20.0	24.4	23.2	30.9	29.7	30.7	34.0	16.6	18.9	20.0	19.0	32.3	24.6	30.2	21.3	22.4	39.1	25.5	21.1	27.6	27.4	20.8	34.0	25.6	39.1	16.6
3	48.2	50.3	49.1	48.9	46.7	42.2	41.1	37.0	39.5	23.1	18.8	24.4	25.6	24.6	25.8	23.5	21.3	17.9	15.6	14.4	17.7	13.2	11.0	7.7	28.6	50.3	7.7
4	4.4	2.2	4.4	5.5	5.5	5.5	7.7	10.0	11.2	11.3	12.4	20.4	13.7	13.7	14.9	20.6	21.7	17.1	17.0	14.7	17.0	18.1	20.3	26.9	13.2	26.9	2.2
5	5.6	9.0	12.3	11.2	8.9	7.8	7.7	10.0	11.2	11.2	10.1	7.9	7.9	11.3	12.5	13.6	19.3	17.0	19.2	18.0	16.9	14.6	14.6	15.7	12.2	19.3	5.6
6	11.2	11.2	12.2	14.4	14.4	13.2	13.2	11.1	10.1	12.3	11.2	10.2	9.1	12.5	14.8	12.5	10.3	23.9	14.8	11.3	6.8	6.8	6.8	7.8	11.7	23.9	6.8
7	6.7	5.6	6.7	5.5	8.8	9.9	8.9	11.2	20.2	18.0	23.8	19.3	16.0	24.1	6.9	6.9	8.1	12.6	12.6	11.4	18.2	13.6	12.4	12.3	12.5	24.1	5.5
8	10.1	7.9	9.0	6.7	5.6	5.6	7.8	11.3	23.9	16.0	13.8	6.9	4.6	10.4	10.5	8.2	5.8	9.3	10.4	8.1	10.3	10.3	12.5	12.5	9.9	23.9	4.6
9	6.8	5.7	4.5	2.3	5.6	9.0	12.3	--	--	--	--	-1.2	-1.2	2.3	4.7	4.7	8.2	19.8	5.8	10.4	16.1	16.1	25.3	11.5	8.4	25.3	-1.2
10	11.4	12.5	12.5	11.4	10.2	7.9	6.8	7.9	25.1	19.6	16.2	15.1	12.8	10.5	8.2	8.2	12.9	14.0	14.0	18.5	10.4	10.3	9.2	9.1	12.3	25.1	6.8
11	6.9	8.0	8.0	8.0	8.0	9.1	11.4	26.1	19.4	4.6	9.3	15.1	9.3	5.8	8.2	11.7	15.3	15.2	18.7	19.7	27.8	39.3	25.4	17.3	14.5	39.3	4.6
12	16.1	11.5	5.7	6.9	6.9	5.7	5.7	9.1	14.9	16.1	13.8	12.7	19.6	25.4	20.8	17.4	26.7	22.0	19.6	16.1	14.9	17.2	18.2	20.5	15.1	26.7	5.7
13	13.6	18.1	14.7	14.6	13.5	10.1	11.2	18.0	19.2	14.8	16.0	21.7	27.6	28.8	21.9	39.3	42.8	105.0	40.3	21.8	19.5	19.4	21.6	19.3	24.7	105.0	10.1
14	21.6	68.4	52.4	79.1	46.6	28.8	31.0	55.5	60.1	41.4	38.2	28.2	37.4	31.9	13.7	13.7	11.5	6.9	2.3	4.5	10.1	6.8	5.6	5.6	29.2	79.1	2.3
15	7.9	9.0	4.5	4.5	19.0	40.1	46.8	42.6	39.4	30.6	29.6	24.1	30.0	22.0	19.8	25.6	29.2	10.5	26.7	21.9	21.8	21.7	18.2	20.4	23.6	46.8	4.5
16	12.5	13.7	13.6	12.4	12.5	13.5	13.5	26.1	21.8	19.5	21.9	19.7	23.2	17.5	17.5	22.1	17.5	17.5	16.2	17.3	27.7	15.0	18.5	11.5	17.6	27.7	11.5
17	20.6	16.0	17.0	12.5	9.1	9.0	11.2	26.1	28.6	18.3	19.5	19.6	16.2	--	29.2	23.4	--	21.0	24.4	23.2	21.9	19.5	21.8	24.1	19.6	29.2	9.0
18	35.3	20.5	23.9	26.1	27.2	20.4	22.6	24.9	31.9	27.5	32.0	33.1	23.9	22.8	25.1	46.6	10.2	6.8	8.0	10.2	6.8	4.5	5.7	6.8	20.9	46.6	4.5
19	7.9	7.9	9.0	9.0	6.7	6.7	9.0	13.5	12.4	10.2	10.2	10.2	12.5	13.7	11.5	9.2	6.9	9.2	18.3	10.2	11.4	13.6	10.2	9.0	10.3	18.3	6.7
20	7.9	9.0	12.3	8.9	5.6	3.3	5.6	10.1	9.1	8.0	9.1	13.8	15.0	13.8	13.9	13.9	13.9	10.4	9.2	12.6	13.7	13.7	13.7	10.3	10.7	15.0	3.3
21	8.0	6.8	6.8	10.2	10.2	9.0	11.3	19.4	15.0	25.4	18.5	11.6	11.7	22.2	14.0	14.1	14.1	15.2	10.5	10.5	18.6	15.0	14.9	14.9	13.7	25.4	6.8
22	11.5	9.2	12.6	13.7	12.6	13.6	15.9	21.7	21.9	26.6	15.1	18.7	18.7	24.6	34.1	49.4	42.4	30.5	25.7	24.5	30.2	13.9	23.0	10.3	21.7	49.4	9.2
23	10.3	9.1	17.1	13.6	13.6	12.4	9.0	10.2	22.7	20.5	29.7	31.0	26.5	49.6	60.0	48.4	43.8	38.0	33.3	35.4	34.2	33.0	32.8	32.8	27.8	60.0	9.0
24	35.2	27.0	29.2	31.4	38.0	26.9	41.5	54.3	34.2	42.3	34.4	32.3	30.0	31.3	25.5	20.9	33.6	37.1	31.2	33.3	28.6	30.8	28.4	31.7	32.9	54.3	20.9
25	27.2	28.2	24.9	28.2	35.0	29.3	30.4	32.9	27.5	20.6	19.6	22.0	12.8	15.2	--	42.1	56.2	37.3	46.5	71.8	44.9	21.8	9.2	9.1	30.1	71.8	9.1
26	10.2	11.4	10.2	11.3	12.4	11.3	--	13.5	18.0	25.9	57.2	49.7	45.2	52.2	114.0	141.0	--	--	146.0	77.2	32.3	20.0	17.8	8.9	42.2	146.0	8.9
27	7.8	6.7	7.8	6.6	32.0	216.0	134.0	200.0	225.0	159.0	104.0	63.9	50.6	64.4	65.7	63.6	42.0	43.1	44.1	49.7	51.8	60.6	42.4	42.5	74.3	225.0	6.6
28	31.4	32.5	29.1	33.5	28.9	29.9	30.0	30.2	24.7	19.2	20.4	19.3	18.3	21.7	26.4	23.0	24.1	21.9	22.9	21.7	25.1	18.2	13.6	24.8	24.6	33.5	13.6
29	46.2	45.0	108.0	63.7	77.9	117.0	107.0	166.0	50.1	53.6	19.1	15.8	19.3	34.1	12.6	13.7	29.8	--	--	--	--	--	--	--	--	166.0	12.6
30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Avg	16.4	17.0	19.1	18.5	19.6	26.0	24.9	33.8	31.0	25.9	23.4	20.7	20.6	24.9	26.3	26.9	23.2	24.0	25.3	22.6	21.6	19.1	17.8	17.4	21.8	--	--
Max	48.2	68.4	108.0	79.1	77.9	216.0	134.0	200.0	225.0	159.0	104.0	63.9	50.6	67.2	114.0	141.0	56.2	105.0	146.0	77.2	51.8	60.6	42.4	42.5	--	225.0	--
Min	4.4	2.2	4.4	2.3	5.5	3.3	5.6	7.9	9.1	4.6	9.1	-1.2	-1.2	2.3	4.7	4.7	5.8	6.8	2.3	4.5	6.8	4.5	5.6	5.6	--	--	-1.2

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

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

Month: May 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	--	--	--	--	--	--	--	--	--	--	--	38.1	48.7	30.2	21.0	18.7	24.5	30.3	30.2	28.9	23.1	29.9	21.9	11.5	--	48.7	11.5
3	18.3	8.0	9.1	9.1	6.8	8.0	10.2	19.4	18.5	18.6	31.4	14.0	22.3	21.1	22.4	21.2	18.8	8.2	24.6	10.5	11.6	17.3	12.7	13.8	15.7	31.4	6.8
4	14.9	16.2	15.0	12.6	12.6	22.8	19.3	31.0	34.7	22.1	24.5	38.6	20.0	52.9	45.9	36.6	41.2	29.4	24.6	21.0	26.8	23.2	18.5	23.1	26.1	52.9	12.6
5	18.4	14.9	13.8	13.8	13.8	18.3	27.5	33.3	25.4	33.6	--	38.4	51.4	52.7	50.5	86.8	46.9	63.2	43.1	49.9	53.2	48.4	37.9	35.5	37.9	86.8	13.8
6	25.1	26.2	27.4	26.2	25.0	28.4	25.0	31.9	32.1	36.8	37.0	44.0	55.8	47.7	60.5	60.5	69.6	74.7	94.7	127.0	157.0	105.0	100.0	93.4	58.8	157.0	25.0
7	83.1	90.8	108.0	134.0	138.0	108.0	106.0	97.2	83.0	82.0	83.1	77.6	41.8	48.6	39.7	27.2	36.2	28.3	19.2	15.7	18.0	17.9	15.6	22.3	63.3	138.0	15.6
8	11.1	11.1	12.3	13.4	19.0	14.4	14.4	16.8	22.5	25.9	27.2	19.3	25.0	22.8	32.0	20.6	27.4	20.6	26.2	22.7	26.1	23.7	21.4	16.9	20.5	32.0	11.1
9	18.0	21.3	15.6	20.1	17.9	23.6	20.1	27.1	21.6	22.8	18.3	24.0	21.8	21.8	27.6	26.5	28.8	25.3	23.0	30.9	21.7	21.6	19.2	21.5	22.5	30.9	15.6
10	23.8	18.1	19.2	15.8	14.7	14.6	14.7	21.7	23.0	24.2	20.8	26.7	22.1	37.4	35.1	89.4	37.6	30.5	41.0	26.9	39.5	12.7	17.3	16.1	26.8	89.4	12.7
11	16.1	24.1	20.6	13.7	19.3	27.2	86.9	409.0	470.0	542.0	479.0	346.0	206.0	240.0	84.5	66.2	55.9	41.0	23.8	29.4	18.1	20.3	21.4	20.1	137.0	542.0	13.7
12	17.9	0.0	3.3	2.2	2.2	7.8	11.1	33.6	23.6	20.3	15.9	11.4	5.7	8.1	9.2	10.4	10.4	18.4	12.6	18.3	17.1	24.9	12.4	20.3	13.2	33.6	0.0
13	15.7	21.3	25.7	16.7	16.7	129.0	138.0	145.0	67.2	79.9	66.8	49.0	27.4	18.4	19.6	19.6	23.0	14.9	10.3	17.0	31.7	26.0	37.2	32.6	43.7	145.0	10.3
14	19.1	17.9	54.9	88.3	42.5	32.4	25.7	31.4	63.1	34.0	67.1	38.8	27.5	33.4	23.1	20.9	27.8	25.5	27.7	28.6	26.2	19.3	21.5	20.3	34.0	88.3	17.9
15	21.4	27.0	22.5	23.5	20.1	29.0	29.2	36.2	36.4	32.0	23.1	19.7	31.4	19.9	19.9	24.7	15.3	14.1	26.9	22.1	23.2	17.4	25.3	14.9	24.0	36.4	14.1
16	14.9	13.7	10.3	9.1	9.1	10.3	12.6	21.9	12.8	32.6	22.2	23.5	16.5	16.5	16.5	28.4	21.3	17.7	36.5	22.3	19.9	12.9	14.0	15.2	18.0	36.5	9.1
17	16.3	17.5	15.1	15.0	17.2	14.9	20.7	27.7	27.9	26.9	22.3	24.8	27.2	33.2	26.1	29.7	34.4	26.1	23.7	18.9	20.0	19.8	12.8	20.9	22.5	34.4	12.8
18	9.3	9.3	10.4	10.4	12.7	13.8	11.5	17.3	17.4	16.3	15.2	14.1	14.2	14.2	15.4	18.9	16.6	20.1	27.2	17.7	16.4	16.3	17.5	15.1	15.3	27.2	9.3
19	15.1	19.7	15.0	21.9	10.3	12.6	13.8	11.5	13.9	13.9	10.5	17.5	18.8	22.3	44.8	47.3	39.0	30.7	20.0	21.1	16.4	15.1	19.7	18.5	20.4	47.3	10.3
20	17.3	15.0	14.9	16.0	14.9	14.8	17.1	19.5	18.5	19.7	9.3	24.6	11.7	17.6	22.4	54.2	75.4	91.5	67.9	29.1	22.1	15.0	11.5	10.3	26.3	91.5	9.3
21	10.3	9.2	8.0	8.0	6.8	10.2	12.5	13.7	15.0	15.0	22.0	12.8	18.7	26.8	24.5	53.8	43.3	37.3	22.1	24.3	26.5	28.7	32.0	27.4	21.2	53.8	6.8
22	27.3	20.4	20.3	22.5	19.1	20.3	28.2	27.4	31.1	26.6	18.5	12.8	36.2	18.7	36.3	23.4	30.4	43.2	30.2	17.3	20.7	16.0	14.9	14.8	24.0	43.2	12.8
23	15.9	21.5	9.1	5.6	4.5	9.0	13.4	19.1	17.1	16.0	10.4	6.9	9.2	10.4	19.7	16.2	18.6	18.5	13.8	14.9	20.6	22.9	37.7	31.8	16.0	37.7	4.5
24	28.3	26.0	27.2	21.5	18.0	22.5	16.9	24.8	14.7	18.2	17.2	15.0	18.5	16.2	24.3	16.2	22.0	23.1	23.1	19.6	18.4	17.2	22.9	18.3	20.4	28.3	14.7
25	18.3	14.8	19.4	19.4	18.1	19.2	13.6	17.2	16.1	18.4	15.0	11.6	11.6	14.0	11.6	11.7	10.5	14.0	15.2	11.6	17.4	13.9	15.0	16.2	15.2	19.4	10.5
26	12.7	10.4	13.8	14.9	18.4	17.1	21.7	17.2	15.0	25.5	20.9	23.4	25.8	23.6	22.4	44.9	24.8	27.2	21.2	21.1	16.4	19.9	18.7	19.8	20.7	44.9	10.4
27	15.2	19.8	13.9	15.0	16.2	16.1	30.0	19.7	26.8	22.2	20.0	20.1	25.0	22.6	23.8	31.0	29.8	32.2	19.0	27.2	20.1	20.1	18.8	30.4	22.3	32.2	13.9
28	36.1	28.0	23.2	25.5	16.1	26.4	23.1	23.3	28.1	44.6	23.5	26.0	17.8	24.9	23.8	33.4	25.0	26.2	13.1	20.1	16.6	16.5	27.0	29.3	24.9	44.6	13.1
29	24.5	18.7	20.9	11.6	12.8	18.5	17.3	20.8	18.5	12.8	12.8	19.7	17.4	17.4	17.5	16.4	11.8	10.6	15.2	18.6	13.9	13.9	12.7	10.4	16.0	24.5	10.4
30	6.9	11.5	13.8	11.4	11.4	13.7	15.0	18.6	17.6	17.7	17.7	21.3	14.2	17.8	--	17.9	29.8	19.1	20.2	18.9	15.4	15.3	14.0	11.6	16.1	29.8	6.9
31	11.7	10.5	10.5	11.6	10.4	10.4	9.3	12.8	16.5	25.9	15.4	14.3	19.1	27.5	26.3	32.3	34.7	26.3	20.3	15.5	22.5	18.9	16.5	12.9	18.0	34.7	9.3
Avg	20.1	19.4	20.4	21.7	19.5	24.6	27.7	43.0	42.3	45.7	41.7	35.8	30.3	32.6	29.2	33.5	31.0	29.6	27.2	25.6	26.6	23.0	22.9	22.2	29.0	--	--
Max	83.1	90.8	108.0	134.0	138.0	129.0	138.0	409.0	470.0	542.0	479.0	346.0	206.0	240.0	84.5	89.4	75.4	91.5	94.7	127.0	157.0	105.0	100.0	93.4	--	542.0	--
Min	6.9	0.0	3.3	2.2	2.2	7.8	9.3	11.5	12.8	12.8	9.3	6.9	5.7	8.1	9.2	10.4	10.4	8.2	10.3	10.5	11.6	12.7	11.5	10.3	--	--	0.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

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

Month: Jun 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	11.7	14.0	17.5	9.3	11.5	12.7	24.2	15.2	11.7	8.2	8.3	10.7	32.1	7.1	10.7	14.3	21.5	21.5	15.5	15.4	20.1	8.2	8.2	10.5	14.2	32.1	7.1
2	9.3	4.7	5.8	7.0	7.0	6.9	11.6	17.6	17.8	15.4	21.4	11.9	12.0	14.4	16.8	12.0	13.2	13.2	9.6	9.5	8.3	9.5	13.0	14.2	11.7	21.4	4.7
3	11.8	11.8	12.9	8.2	8.1	5.8	9.3	12.9	11.8	14.2	20.2	27.4	25.1	28.7	23.9	48.0	22.8	20.3	16.7	20.2	19.0	20.1	21.1	18.8	18.3	48.0	5.8
4	11.7	11.7	11.7	14.0	12.8	9.3	10.5	12.9	10.6	9.5	9.5	8.4	21.5	8.4	27.6	29.9	32.4	22.7	19.1	11.9	10.7	10.6	7.0	2.3	14.0	32.4	2.3
5	7.0	14.0	11.6	11.6	10.4	8.1	26.7	15.2	14.2	11.8	13.1	15.5	22.7	22.8	18.0	15.6	14.4	19.2	21.5	17.9	16.6	18.9	16.4	18.7	15.9	26.7	7.0
6	17.5	16.3	12.8	11.7	14.0	16.1	18.6	27.0	22.4	24.8	20.2	15.5	16.7	16.8	25.2	31.2	34.7	22.7	22.7	28.5	28.4	24.6	29.3	21.0	21.6	34.7	11.7
7	17.5	18.7	19.8	24.6	22.2	25.5	22.0	24.6	33.0	33.1	28.5	19.1	17.9	32.3	33.5	43.1	53.9	19.1	31.0	29.7	20.2	18.9	21.2	16.5	26.1	53.9	16.5
8	14.1	14.0	17.5	17.5	14.0	11.6	11.6	14.0	18.8	18.8	31.9	36.7	40.4	42.9	35.8	39.4	35.9	37.0	39.3	32.0	23.7	24.8	26.0	18.9	25.7	42.9	11.6
9	21.2	16.5	22.2	19.7	20.9	32.5	104.0	58.6	30.6	22.5	26.2	31.0	22.8	34.8	31.3	27.7	24.1	33.7	24.0	11.9	13.1	21.4	22.4	16.5	28.7	104.0	11.9
10	19.9	22.3	27.0	24.6	21.0	29.2	28.0	52.7	45.7	36.6	39.0	35.6	29.8	35.9	33.6	43.3	44.4	48.0	38.4	15.5	17.9	37.9	56.6	57.6	35.0	57.6	15.5
11	53.9	44.5	32.7	32.6	25.6	19.7	23.2	17.5	25.7	18.8	20.0	29.5	33.2	48.7	56.0	67.9	51.3	38.0	26.1	30.8	17.7	23.5	11.7	19.8	32.0	67.9	11.7
12	19.8	18.6	13.9	19.6	16.1	12.6	19.6	18.6	11.7	28.3	26.0	24.9	15.5	19.1	22.7	26.3	19.1	15.5	15.5	20.2	18.9	10.6	20.1	22.3	19.0	28.3	10.6
13	17.6	18.7	18.7	16.3	15.1	15.1	15.1	15.1	17.5	18.8	20.0	29.5	21.4	23.8	27.4	32.3	32.3	46.7	56.1	34.5	21.4	21.3	24.8	15.3	24.0	56.1	15.1
14	16.5	20.0	28.1	45.5	36.1	39.5	29.1	--	--	--	30.6	28.3	48.5	47.5	88.0	82.2	38.1	29.7	26.1	15.4	11.8	9.4	8.2	8.2	32.7	88.0	8.2
15	10.5	12.8	16.3	12.8	18.4	15.0	19.6	14.0	12.8	12.9	11.8	9.4	8.3	44.0	41.7	36.9	15.4	15.4	15.3	12.9	11.7	11.7	10.5	12.9	16.8	44.0	8.3
16	21.0	10.5	9.3	5.8	0.0	4.6	11.6	10.5	12.9	16.4	10.6	9.5	19.0	22.5	53.6	55.9	61.9	30.9	22.5	21.3	15.3	14.1	18.8	9.4	19.5	61.9	0.0
17	12.9	16.3	15.1	11.6	9.3	11.6	12.7	18.6	15.1	15.2	21.1	23.5	23.6	23.7	33.3	36.9	64.3	46.4	41.5	83.9	29.4	21.1	14.0	15.2	25.7	83.9	9.3
18	11.6	11.6	13.9	13.9	18.5	12.7	12.7	13.9	15.1	14.0	18.7	22.3	21.2	27.1	27.2	39.0	29.5	24.8	23.5	12.9	11.7	14.0	15.1	13.9	18.3	39.0	11.6
19	9.2	8.1	10.4	8.0	6.9	6.9	11.5	9.3	7.0	12.9	15.3	18.9	14.2	13.0	13.0	14.3	23.7	11.8	14.2	15.3	11.8	12.9	11.7	11.7	12.2	23.7	6.9
20	14.0	12.8	11.6	11.6	12.7	11.5	20.9	17.6	16.5	15.4	16.6	15.5	13.1	19.2	16.8	14.4	19.2	17.9	16.7	15.5	10.7	9.5	13.0	17.7	15.0	20.9	9.5
21	14.2	15.3	19.9	21.0	23.3	19.7	18.6	22.2	29.2	22.3	17.7	19.0	14.3	20.3	27.4	31.1	26.3	31.1	16.7	16.6	19.0	20.1	18.9	14.1	20.7	31.1	14.1
22	18.8	17.5	15.1	10.5	8.1	9.2	12.7	10.5	7.0	4.7	4.7	4.7	3.6	8.3	14.3	16.7	17.9	16.7	15.5	10.7	8.3	8.3	8.2	18.8	11.3	18.8	3.6
23	14.0	14.0	11.6	5.8	2.3	4.6	5.8	7.0	9.3	9.4	9.4	9.5	7.1	4.8	10.7	13.1	15.5	17.9	16.7	16.6	15.4	14.1	12.9	9.4	10.7	17.9	2.3
24	22.2	17.5	18.6	20.8	11.5	10.4	18.5	17.4	16.3	15.2	12.9	8.3	8.3	11.9	13.1	17.9	15.5	15.5	15.5	13.0	17.7	14.1	15.2	14.0	15.0	22.2	8.3
25	10.5	17.5	16.2	19.8	20.9	27.8	22.0	19.8	17.5	1.2	7.1	11.8	10.7	29.8	16.7	29.9	27.5	26.3	21.5	16.7	17.8	21.3	30.6	23.5	19.4	30.6	1.2
26	17.6	17.5	14.0	7.0	3.5	4.6	7.0	8.2	8.2	7.0	10.6	11.9	20.2	20.3	35.8	34.7	32.3	28.7	27.4	15.5	23.7	43.7	25.9	29.3	18.9	43.7	3.5
27	29.2	23.3	39.6	39.5	29.0	20.8	20.9	17.4	--	16.3	23.4	20.0	15.4	47.5	22.6	32.2	40.5	31.0	21.4	16.6	18.9	17.7	18.8	11.8	24.9	47.5	11.8
28	12.9	15.2	15.2	12.8	18.6	12.7	13.9	22.2	25.8	21.2	21.2	18.9	24.9	27.4	32.2	22.7	29.9	14.3	33.4	24.9	26.1	16.6	18.8	19.9	20.9	33.4	12.7
29	21.1	24.6	12.8	18.6	16.3	16.2	19.7	63.1	136.0	99.9	92.1	74.7	72.5	64.4	55.0	59.8	51.4	47.9	53.7	32.1	16.6	20.2	28.4	30.7	47.0	136.0	12.8
30	28.3	16.4	16.4	16.3	16.3	16.2	22.1	19.9	19.9	24.7	17.7	20.2	21.4	17.9	25.1	22.8	22.8	20.4	25.1	19.1	23.8	15.4	15.4	11.8	19.8	28.3	11.8
Avg	17.3	16.6	16.9	16.6	15.0	15.0	20.1	20.5	22.1	19.6	20.9	20.7	21.9	26.2	29.6	33.0	31.1	26.1	24.7	21.2	17.5	17.8	18.7	17.5	21.2	--	--
Max	53.9	44.5	39.6	45.5	36.1	39.5	104.0	63.1	136.0	99.9	92.1	74.7	72.5	64.4	88.0	82.2	64.3	48.0	56.1	83.9	29.4	43.7	56.6	57.6	--	136.0	--
Min	7.0	4.7	5.8	5.8	0.0	4.6	5.8	7.0	7.0	1.2	4.7	4.7	3.6	4.8	10.7	12.0	13.2	11.8	9.6	9.5	8.3	8.2	7.0	2.3	--	--	0.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table125, conc_PM10_µg/m^3 STP"
Month: Apr 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	14.0	10.8	7.6	6.5	19.4	32.2	21.4	44.2	14.1	13.1	11.0	20.9	18.7	28.7	28.8	27.7	26.6	35.3	25.2	27.3	16.3	16.2	17.3	17.2	20.8	44.2	6.5
2	18.2	17.1	21.4	18.1	26.6	28.6	51.8	41.3	32.1	21.5	19.4	22.7	31.3	27.1	31.4	22.8	16.2	19.5	22.6	24.6	18.2	22.3	18.0	26.5	25.0	51.8	16.2
3	40.2	45.3	45.2	49.3	51.3	47.1	54.3	45.1	43.4	23.4	16.0	35.5	26.9	32.4	33.6	20.6	20.6	17.3	9.7	10.7	10.7	10.7	12.8	11.7	29.7	54.3	9.7
4	6.4	6.4	5.3	1.1	1.1	4.2	7.4	10.7	11.9	8.7	5.5	7.7	8.8	6.6	18.9	16.6	19.9	17.7	17.6	17.5	19.6	18.5	30.3	9.8	11.6	30.3	1.1
5	9.7	10.8	11.9	10.8	11.8	11.8	10.7	10.7	6.5	6.5	8.7	7.7	8.8	12.1	13.2	12.1	13.2	16.5	18.6	14.2	10.9	10.8	12.9	19.3	11.7	19.3	6.5
6	17.1	10.7	8.6	6.4	9.6	22.3	26.5	2.1	6.5	13.0	13.1	12.0	21.9	8.8	8.8	11.0	13.3	9.9	6.6	6.6	5.5	6.5	5.4	4.3	10.7	26.5	2.1
7	7.6	5.4	5.4	7.6	10.8	7.5	32.1	14.0	20.6	10.9	19.7	34.2	5.5	18.9	22.3	9.0	8.9	22.2	14.4	11.0	9.9	12.0	13.0	9.8	13.9	34.2	5.4
8	8.7	9.8	6.5	5.4	7.6	19.5	28.1	45.6	39.4	16.6	13.4	--	--	--	--	13.5	12.4	16.9	9.0	7.8	5.5	5.5	6.6	7.7	14.3	45.6	5.4
9	8.7	7.6	7.7	9.9	11.0	10.9	10.9	21.9	12.2	11.2	13.4	14.6	12.4	9.0	32.8	14.7	14.7	11.3	41.5	15.6	28.8	12.2	27.5	6.6	15.3	41.5	6.6
10	8.8	13.1	17.5	13.1	20.7	42.5	39.3	48.2	17.7	27.9	13.5	13.6	22.7	64.8	20.5	21.6	15.9	12.5	33.9	14.6	21.3	16.7	15.5	11.1	22.8	64.8	8.8
11	7.7	7.7	27.6	11.0	13.2	15.4	47.2	11.0	10.0	9.0	7.9	6.8	6.8	36.2	34.0	17.1	17.1	14.8	41.9	18.0	26.9	31.3	26.7	18.9	19.3	47.2	6.8
12	15.5	14.4	9.9	5.5	6.6	28.5	25.2	15.5	13.3	11.2	12.3	20.2	32.5	28.1	24.7	50.6	20.2	31.4	23.5	35.6	29.9	22.0	25.3	42.7	22.7	50.6	5.5
13	20.7	16.3	16.3	14.1	14.1	40.0	41.1	10.9	11.0	13.2	18.8	27.8	30.1	61.4	34.8	793.0	97.7	--	914.0	17.8	25.4	18.8	20.9	22.0	99.1	914.0	10.9
14	15.3	265.0	291.0	138.0	53.0	32.3	149.0	113.0	66.8	54.1	21.7	28.4	34.0	19.8	38.8	5.6	5.6	5.6	5.5	8.8	9.9	4.4	4.4	6.5	57.3	291.0	4.4
15	6.5	4.3	3.2	2.2	17.4	31.5	48.9	43.6	41.6	37.4	29.8	28.9	26.9	34.8	23.7	17.0	15.8	13.6	41.6	29.0	22.1	20.9	40.7	23.0	25.2	48.9	2.2
16	12.0	13.1	15.3	14.2	32.7	15.2	109.0	18.7	18.9	15.6	20.2	26.9	25.9	35.0	28.3	20.3	12.4	12.4	19.1	17.9	36.7	13.3	19.9	14.3	23.6	109.0	12.0
17	19.8	17.6	16.4	14.2	29.4	21.7	25.1	15.4	24.3	20.0	21.2	26.9	31.5	30.5	29.4	23.8	22.7	19.2	42.7	38.1	49.0	22.2	25.5	22.1	25.4	49.0	14.2
18	25.5	27.7	39.5	26.3	52.5	28.4	58.9	25.2	26.4	26.6	26.6	34.3	21.0	7.8	34.3	36.4	8.8	6.6	6.6	11.0	41.7	7.7	6.6	5.5	24.7	58.9	5.5
19	5.5	4.4	3.3	4.4	4.4	4.4	6.5	10.9	9.8	7.7	7.7	8.9	12.1	23.2	18.9	20.0	6.7	6.7	49.9	8.8	8.8	9.9	8.8	7.7	10.8	49.9	3.3
20	8.7	7.6	5.4	4.3	2.2	6.5	42.1	8.7	7.7	11.0	15.5	13.3	17.9	14.6	30.3	18.0	14.6	11.2	11.2	12.2	32.1	8.8	12.1	13.2	13.7	42.1	2.2
21	12.1	8.8	6.6	7.7	6.5	21.9	19.7	17.6	23.3	15.6	16.8	16.9	37.4	18.2	22.7	33.0	44.3	34.0	45.2	19.1	12.3	14.5	12.2	7.8	19.8	45.2	6.5
22	8.9	10.0	8.8	9.9	16.5	13.2	24.2	16.7	17.9	16.8	22.5	24.9	38.6	97.0	29.7	51.4	37.7	27.3	19.3	18.1	24.7	16.8	16.7	8.9	24.0	97.0	8.8
23	8.8	9.9	13.2	12.1	12.0	14.2	41.4	19.8	11.0	44.2	47.5	39.0	31.3	41.4	181.0	64.9	44.8	41.3	44.5	33.2	75.9	34.0	34.9	34.9	39.0	181.0	8.8
24	31.6	30.4	31.5	32.5	29.2	31.5	44.7	41.7	36.4	37.8	39.0	--	43.7	66.2	--	20.3	24.7	--	25.7	64.6	55.5	23.2	26.4	26.3	36.3	66.2	20.3
25	21.9	21.9	26.2	29.5	30.5	25.1	93.7	28.7	22.2	15.6	19.0	19.1	22.6	37.3	19.3	--	--	181.0	32.7	57.2	35.7	8.9	10.0	8.8	34.9	181.0	8.8
26	6.6	7.7	6.6	7.7	18.6	12.0	13.1	20.7	18.5	21.8	325.0	60.9	40.4	36.5	111.0	137.0	228.0	175.0	135.0	60.5	29.0	23.6	11.8	12.8	63.3	325.0	6.6
27	10.6	7.5	6.4	6.4	6.4	93.3	186.0	208.0	220.0	168.0	84.4	66.1	56.7	64.5	68.0	58.3	41.8	48.4	49.3	49.1	44.6	45.6	37.9	33.5	69.2	220.0	6.4
28	35.6	36.6	25.8	25.8	33.2	23.6	48.3	23.8	22.8	21.9	47.2	24.3	26.5	31.1	22.2	25.6	21.2	16.7	20.0	42.0	26.4	15.4	12.1	22.0	27.1	48.3	12.1
29	25.2	64.5	59.9	57.6	44.4	34.4	50.5	84.0	64.8	16.3	14.1	10.9	6.6	7.7	11.1	10.0	5.6	2.2	2.2	1.1	1.1	5.4	7.6	9.7	24.9	84.0	1.1
30	21.6	20.5	7.5	6.4	101.0	129.0	46.4	94.3	76.1	25.1	30.8	19.9	17.7	25.6	19.0	16.8	12.3	17.9	19.0	10.0	16.6	64.7	164.0	86.1	43.7	164.0	6.4
Avg	15.3	24.4	25.2	18.6	23.1	28.3	46.8	37.1	31.6	24.7	32.0	24.0	24.7	31.9	35.4	54.8	29.1	30.2	58.3	23.4	25.0	18.1	22.8	18.3	29.3	--	--
Max	40.2	265.0	291.0	138.0	101.0	129.0	186.0	208.0	220.0	168.0	325.0	66.1	56.7	97.0	181.0	793.0	228.0	181.0	914.0	64.6	75.9	64.7	164.0	86.1	--	914.0	--
Min	5.5	4.3	3.2	1.1	1.1	4.2	6.5	2.1	6.5	6.5	5.5	6.8	5.5	6.6	8.8	5.6	5.6	2.2	2.2	1.1	1.1	4.4	4.4	4.3	--	--	1.1

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table125, conc_PM10_µg/m^3 STP"
Month: May 2014

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	43.6	27.2	64.3	93.5	86.8	85.5	95.2	78.1	106.0	128.0	115.0	124.0	101.0	92.6	89.6	64.1	57.3	43.8	41.5	32.3	13.3	7.8	2.2	5.5	66.6	128.0	2.2
2	9.8	10.9	8.7	13.1	9.8	33.6	39.2	38.4	54.0	53.1	49.1	41.4	46.1	24.9	23.8	19.3	20.4	21.5	19.1	21.3	50.1	27.7	13.3	16.6	27.7	54.0	8.7
3	19.8	9.9	11.0	7.7	7.7	19.7	108.0	23.4	19.0	14.6	50.8	8.0	10.3	12.6	12.6	26.3	25.1	25.1	22.8	11.3	22.5	12.3	19.0	11.1	21.3	108.0	7.7
4	12.2	13.3	9.9	8.8	23.1	25.3	23.2	27.8	19.1	22.6	24.9	21.6	47.9	31.9	80.1	34.4	52.6	33.1	29.6	16.9	47.1	22.4	17.8	25.5	28.0	80.1	8.8
5	13.3	14.4	14.3	20.9	15.4	80.2	30.9	50.1	26.9	28.1	35.1	183.0	109.0	116.0	82.2	39.9	34.2	37.5	39.6	48.4	41.4	45.7	35.5	33.2	49.0	183.0	13.3
6	39.7	64.9	24.2	25.2	47.1	19.7	56.0	32.1	31.1	26.8	46.0	40.5	46.3	44.1	56.6	52.0	50.5	81.2	97.2	141.0	149.0	91.7	88.2	80.4	59.6	149.0	19.7
7	82.5	82.3	85.3	102.0	120.0	106.0	108.0	94.7	80.3	79.4	85.1	88.3	58.0	47.1	58.1	52.6	24.1	16.4	18.6	12.0	10.9	24.9	9.7	10.8	60.8	120.0	9.7
8	10.8	10.8	9.7	10.8	12.9	11.8	53.7	15.2	23.9	17.4	41.6	30.8	25.3	23.2	23.3	22.2	22.2	19.9	29.8	30.8	31.8	35.0	34.8	19.5	23.6	53.7	9.7
9	15.2	15.2	17.3	18.4	15.1	21.5	74.6	20.8	17.6	16.6	24.3	34.4	24.5	44.5	22.3	20.1	20.1	26.8	44.5	31.0	18.8	19.8	30.7	21.9	25.7	74.6	15.1
10	19.7	16.4	14.2	17.5	17.5	18.6	30.6	17.7	18.9	16.8	18.0	21.4	22.6	24.9	51.2	80.0	28.6	23.9	29.6	38.5	21.4	10.1	12.3	11.1	24.2	80.0	10.1
11	16.7	11.1	24.3	12.1	14.3	15.3	73.1	402.0	446.0	506.0	474.0	345.0	241.0	99.8	60.9	32.1	60.8	26.5	23.1	26.3	48.0	12.0	19.5	43.3	126.0	506.0	11.1
12	15.1	7.6	4.3	7.6	19.5	7.6	30.2	17.3	17.4	10.9	7.7	3.3	1.1	21.1	12.3	7.8	7.8	13.4	18.9	9.9	12.1	14.2	18.7	30.7	13.2	30.7	1.1
13	48.0	83.8	89.1	8.7	21.6	22.7	390.0	146.0	96.4	14.2	18.6	11.0	11.1	11.1	11.2	13.4	8.9	4.5	42.1	4.4	118.0	55.9	32.9	24.1	53.6	390.0	4.4
14	21.9	64.5	159.0	127.0	52.0	50.9	45.5	29.3	18.5	16.4	17.6	26.5	24.4	27.9	24.6	19.1	16.9	14.6	19.0	24.5	25.5	24.4	17.7	22.0	37.1	159.0	14.6
15	16.5	17.5	23.0	14.2	21.8	10.9	43.5	18.7	16.6	11.1	13.4	23.6	23.7	40.7	19.3	9.1	10.3	11.4	10.2	20.3	17.9	17.9	16.7	12.3	18.4	43.5	9.1
16	17.8	7.8	8.9	11.1	12.2	12.1	55.2	27.9	18.0	13.5	28.3	27.3	21.7	56.1	33.2	18.4	14.9	14.9	19.4	13.6	13.6	14.6	18.0	13.5	20.5	56.1	7.8
17	13.4	19.0	12.2	11.1	19.9	15.5	43.2	19.1	21.4	21.5	18.2	27.5	22.9	36.8	35.7	28.8	43.8	20.7	35.6	19.4	13.6	14.7	15.7	14.6	22.7	43.8	11.1
18	16.8	6.7	6.7	6.7	7.8	23.3	36.8	7.9	7.9	7.9	9.1	17.1	12.6	37.9	44.8	18.4	21.8	14.9	33.2	37.6	10.2	9.0	23.6	13.4	18.0	44.8	6.7
19	13.4	12.3	12.2	12.2	12.2	12.1	43.2	13.4	20.2	29.4	11.3	23.9	19.5	76.8	33.3	25.3	29.8	31.0	17.2	14.8	12.4	11.2	12.3	15.6	21.5	76.8	11.2
20	18.9	13.3	12.2	12.1	13.2	25.3	43.1	15.6	16.8	30.4	18.1	10.2	20.6	18.3	81.4	44.7	68.6	51.3	39.7	23.7	11.3	10.1	6.7	6.6	25.5	81.4	6.6
21	7.7	7.7	5.5	5.5	7.7	9.9	25.3	19.9	12.3	12.3	10.1	9.0	26.0	27.2	34.0	48.9	38.6	29.5	15.8	16.8	26.8	31.1	37.5	27.5	20.5	48.9	5.5
22	21.9	20.8	19.7	17.5	23.9	23.9	106.0	29.7	26.6	20.0	31.5	15.8	36.2	31.7	29.5	23.8	18.1	33.9	19.1	11.2	12.2	13.3	12.2	12.1	25.4	106.0	11.2
23	13.2	--	--	--	--	--	--	--	--	--	--	--	11.2	22.5	20.3	15.8	23.6	13.5	62.6	17.8	23.3	27.7	38.6	28.5	--	62.6	11.2
24	27.3	22.9	16.3	13.1	13.0	20.6	12.0	10.9	18.7	17.7	11.1	11.1	13.4	12.3	25.9	18.0	15.7	17.9	29.1	31.3	16.7	14.4	19.9	16.6	17.8	31.3	10.9
25	18.8	27.6	17.7	13.2	13.2	18.7	13.2	16.6	11.1	11.2	12.3	13.5	12.4	11.3	10.2	7.9	10.2	10.2	7.9	25.9	21.3	17.9	13.4	12.2	14.5	27.6	7.9
26	18.9	15.5	12.2	10.0	21.0	20.9	58.5	11.1	10.1	12.3	36.1	26.0	25.0	29.7	24.0	26.4	21.8	31.0	24.0	36.4	12.5	12.4	13.5	15.7	21.9	58.5	10.0
27	15.7	12.3	13.4	17.8	94.4	42.1	24.4	23.5	18.0	17.0	30.8	14.9	19.6	42.8	106.0	22.0	44.0	17.3	23.1	25.2	14.9	11.4	23.8	14.6	28.7	106.0	11.4
28	25.8	28.0	22.4	15.6	22.3	25.7	32.5	22.6	15.9	19.4	30.8	33.2	36.7	68.8	25.4	23.1	19.7	19.7	16.1	35.5	25.1	20.5	18.1	22.6	26.1	68.8	15.6
29	18.0	14.6	10.1	6.7	11.2	14.5	74.7	15.7	14.6	12.4	18.0	5.6	7.9	21.4	--	13.6	9.1	5.7	9.1	12.5	9.0	7.9	9.0	6.8	14.3	74.7	5.6
30	7.9	10.1	10.1	11.2	11.2	13.4	13.5	12.4	21.6	16.0	21.7	17.2	19.6	32.3	15.0	16.2	13.9	12.7	18.4	17.2	8.0	10.3	11.3	12.4	14.7	32.3	7.9
31	16.9	9.0	5.6	5.6	6.7	10.1	25.9	22.6	17.0	11.4	10.3	12.7	6.9	46.5	45.3	33.7	24.4	40.6	15.1	18.4	16.0	16.0	14.8	12.4	18.5	46.5	5.6
Avg	21.2	22.6	24.8	21.9	25.8	27.2	60.3	42.7	41.4	40.5	44.0	42.3	35.6	39.8	39.7	28.3	27.7	24.7	28.1	26.6	28.2	21.4	21.2	19.8	31.5	--	--
Max	82.5	83.8	159.0	127.0	120.0	106.0	390.0	402.0	446.0	506.0	474.0	345.0	241.0	116.0	106.0	80.0	68.6	81.2	97.2	141.0	149.0	91.7	88.2	80.4	--	506.0	--
Min	7.7	6.7	4.3	5.5	6.7	7.6	12.0	7.9	7.9	7.9	7.7	3.3	1.1	11.1	10.2	7.8	7.8	4.5	7.9	4.4	8.0	7.8	2.2	5.5	--	--	1.1

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table125, conc_PM10_µg/m^3 STP"
Month: Jun 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	12.4	13.5	11.2	8.9	6.7	17.9	17.9	13.6	12.5	10.3	13.7	13.8	8.1	6.9	9.3	12.7	15.1	13.9	24.2	8.0	12.6	11.4	7.9	9.0	12.1	24.2	6.7
2	10.1	6.7	5.6	6.7	7.8	6.8	36.1	13.7	18.3	17.2	19.6	12.7	12.7	25.6	12.8	29.1	29.1	7.0	5.8	5.8	6.9	6.9	6.8	6.8	13.2	36.1	5.6
3	53.3	12.4	10.1	6.8	6.8	11.2	19.2	19.3	10.3	64.4	48.5	72.7	60.1	77.7	55.6	23.2	8.2	10.5	30.2	19.6	13.8	13.6	21.6	13.6	28.4	77.7	6.8
4	9.0	9.0	11.2	10.1	31.4	11.2	179.0	20.5	9.2	9.2	50.7	46.3	111.0	54.5	23.2	15.1	27.9	13.9	35.9	19.6	26.3	4.6	6.8	18.1	31.4	179.0	4.6
5	5.6	7.9	10.1	6.7	36.9	32.4	56.1	17.0	12.6	45.9	18.4	17.3	20.9	44.1	64.0	15.1	14.0	19.8	19.7	18.4	12.6	14.8	17.0	13.6	22.6	64.0	5.6
6	28.2	12.4	13.5	22.4	42.5	27.9	21.5	20.5	19.4	19.5	26.5	28.9	30.1	20.9	38.3	23.3	17.4	16.2	24.3	17.3	38.9	20.5	18.2	18.1	23.6	42.5	12.4
7	16.9	36.0	23.6	17.9	23.5	20.1	25.8	18.1	30.8	19.5	18.4	24.3	13.9	13.9	22.1	20.9	20.9	16.2	19.7	15.0	18.3	21.6	37.4	41.8	22.4	41.8	13.9
8	13.5	14.6	16.9	19.0	16.8	29.0	56.0	17.0	76.1	21.7	27.5	42.5	36.9	58.8	35.9	35.9	34.8	30.1	34.6	26.4	25.2	23.9	22.8	22.7	30.8	76.1	13.5
9	21.5	18.1	18.0	11.3	27.0	24.6	30.3	23.9	39.9	16.0	15.0	39.3	43.0	37.3	60.7	21.0	18.7	18.7	16.3	15.0	19.5	17.1	23.9	17.1	24.7	60.7	11.3
10	36.3	19.3	19.2	18.0	42.8	24.7	64.0	32.8	31.9	32.0	29.9	40.3	40.4	44.1	105.0	40.8	32.6	36.1	37.2	23.2	11.5	33.2	46.6	55.5	37.4	105.0	11.5
11	54.2	48.6	33.8	33.7	47.0	25.7	28.1	14.7	31.7	33.0	36.5	67.6	51.7	61.0	68.1	38.2	45.2	21.9	19.6	17.2	14.8	13.6	18.1	16.9	35.0	68.1	13.6
12	19.1	14.6	14.6	13.4	53.5	21.2	13.5	18.1	11.4	12.6	24.1	17.3	16.2	13.9	24.3	17.4	12.8	13.9	10.4	53.0	12.6	211.0	11.4	13.6	26.8	211.0	10.4
13	21.5	15.9	14.7	12.4	40.4	12.3	13.5	28.2	12.5	17.1	17.2	17.3	26.5	52.0	22.0	18.6	22.1	161.0	40.5	9.2	11.5	13.7	14.8	15.9	26.3	161.0	9.2
14	14.7	18.1	15.8	31.5	34.9	35.9	43.8	19.2	15.9	23.9	24.0	26.4	29.9	108.0	151.0	151.0	61.2	28.8	25.3	11.4	9.1	6.8	7.9	6.8	37.6	151.0	6.8
15	7.9	12.3	10.1	7.8	10.1	27.8	46.9	9.0	9.1	11.4	9.1	10.3	20.8	52.0	81.0	104.0	13.8	13.8	32.0	9.1	6.8	31.7	11.3	10.1	23.3	104.0	6.8
16	9.0	17.9	9.0	5.6	41.3	12.3	11.2	12.4	10.2	5.7	18.3	20.6	31.0	35.8	55.4	43.9	237.0	34.6	21.8	16.0	12.5	10.2	12.4	13.5	29.1	237.0	5.6
17	14.7	22.6	10.1	10.1	17.9	10.0	22.4	13.5	13.6	17.0	21.7	26.2	14.9	67.9	53.0	31.2	39.2	56.5	32.2	24.1	20.5	11.4	19.2	9.0	24.1	67.9	9.0
18	10.1	10.1	6.7	6.7	7.8	16.7	13.4	12.4	7.9	7.9	19.3	17.1	29.6	29.7	32.0	31.0	27.5	37.8	42.2	12.5	12.4	14.6	11.2	6.7	17.6	42.2	6.7
19	11.2	12.3	6.7	5.6	49.9	11.1	43.3	16.8	11.3	7.9	21.6	24.0	4.6	10.3	16.1	11.5	8.1	10.3	13.7	13.7	18.2	14.7	12.4	11.3	15.3	49.9	4.6
20	12.3	10.1	6.7	6.7	50.2	11.2	38.1	9.1	11.4	14.8	19.5	31.1	20.8	24.4	33.7	14.0	40.7	36.0	13.9	13.8	12.6	12.6	10.2	10.3	19.3	50.2	6.7
21	10.2	9.0	13.5	15.8	15.7	27.9	84.0	11.3	17.0	19.4	68.7	26.5	31.2	116.0	47.5	49.9	27.8	48.7	23.1	16.1	14.9	12.6	12.5	11.3	30.4	116.0	9.0
22	11.3	13.6	15.8	13.5	38.0	20.1	63.9	10.2	8.0	41.1	6.9	2.3	4.6	12.7	13.9	22.1	11.6	23.2	22.0	12.7	48.1	124.0	9.1	18.1	23.6	124.0	2.3
23	12.4	9.0	9.0	6.7	98.3	30.0	24.6	12.4	7.9	21.6	9.1	10.3	10.4	24.2	18.4	12.7	10.4	27.8	21.9	14.9	14.9	13.6	23.8	16.9	19.2	98.3	6.7
24	18.0	19.1	16.8	16.8	62.5	31.1	34.5	6.8	11.3	10.2	19.4	10.3	10.3	27.6	21.9	39.3	5.8	10.4	15.0	11.5	10.3	12.5	14.7	11.3	18.6	62.5	5.8
25	7.9	10.1	14.6	15.7	48.0	24.5	26.8	12.4	14.7	17.1	3.4	3.5	5.8	22.0	52.1	29.0	16.2	17.4	19.7	11.5	12.6	17.1	28.5	31.7	19.3	52.1	3.4
26	19.2	10.2	19.2	6.7	6.7	9.0	17.9	10.2	9.1	9.1	11.4	18.3	29.9	27.8	170.0	93.1	16.3	17.4	28.9	51.8	11.5	30.8	30.7	27.2	28.4	170.0	6.7
27	28.3	21.4	24.7	24.7	21.3	23.4	45.9	30.4	28.2	--	30.6	27.4	24.1	54.1	35.7	80.9	61.2	33.5	44.9	9.2	10.3	13.7	15.9	14.7	30.6	80.9	9.2
28	13.5	13.5	10.1	10.1	13.5	20.1	62.7	18.1	20.4	21.6	32.0	68.8	77.1	38.1	33.5	29.0	10.4	13.9	25.4	43.8	19.5	14.8	13.6	25.0	27.0	77.1	10.1
29	21.5	21.5	18.0	14.6	20.1	15.6	34.8	16.9	110.0	93.6	86.9	176.0	68.0	69.4	169.0	115.0	91.8	44.1	91.4	26.5	40.3	19.5	18.3	19.4	58.5	176.0	14.6
30	24.9	19.3	13.5	20.2	110.0	27.9	30.2	13.6	14.8	41.1	12.6	25.3	20.8	31.3	36.0	32.6	18.6	22.1	29.0	8.1	10.3	11.5	10.3	9.1	24.7	110.0	8.1
Avg	18.3	16.0	14.1	13.5	34.3	20.7	40.2	16.4	21.2	23.5	25.4	32.2	30.2	42.1	52.1	40.1	33.2	28.5	27.4	18.5	17.0	25.9	17.2	17.2	26.0	--	--
Max	54.2	48.6	33.8	33.7	110.0	35.9	179.0	32.8	110.0	93.6	86.9	176.0	111.0	116.0	170.0	151.0	237.0	161.0	91.4	53.0	48.1	211.0	46.6	55.5	--	237.0	--
Min	5.6	6.7	5.6	5.6	6.7	6.8	11.2	6.8	7.9	5.7	3.4	2.3	4.6	6.9	9.3	11.5	5.8	7.0	5.8	5.8	6.8	4.6	6.8	6.7	--	--	2.3

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

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

Month: Apr 2014

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	6.0	5.0	4.0	3.0	4.0	6.0	6.0	6.0	6.0	7.0	6.0	5.0	4.0	2.0	4.0	5.0	7.0	8.0	7.0	8.0	9.0	8.0	7.0	5.0	5.8	9.0	2.0
2	6.0	7.0	6.0	6.0	7.0	7.0	11.0	11.0	9.0	9.0	7.0	7.0	7.0	9.0	9.0	8.0	6.0	5.0	5.0	7.0	6.0	6.0	6.0	5.0	7.2	11.0	5.0
3	9.0	13.0	12.0	11.0	12.0	13.0	11.0	9.0	9.0	6.0	5.0	6.0	8.0	6.0	6.0	6.0	4.0	3.0	6.0	7.0	5.0	5.0	5.0	5.0	7.6	13.0	3.0
4	4.0	3.0	5.0	4.0	4.0	6.0	4.0	3.0	5.0	7.0	7.0	5.0	5.0	8.0	7.0	5.0	5.0	5.0	5.0	5.0	5.0	8.0	7.0	5.0	5.3	8.0	3.0
5	5.0	6.0	5.0	4.0	5.0	4.0	1.0	3.0	4.0	3.0	2.0	2.0	5.0	4.0	1.0	4.0	5.0	4.0	6.0	6.0	6.0	6.0	7.0	8.0	4.4	8.0	1.0
6	6.0	5.0	5.0	6.0	5.0	8.0	8.0	6.0	7.0	6.0	5.0	4.0	4.0	6.0	7.0	6.0	5.0	4.0	4.0	4.0	3.0	2.0	2.0	3.0	5.0	8.0	2.0
7	4.0	3.0	4.0	6.0	5.0	5.0	4.0	5.0	5.0	4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0	3.0
8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	1.0	5.0	5.0	3.0	5.0	3.0	1.0	4.0	--	5.0	0.0
11	6.0	5.0	2.0	4.0	1.0	-1.0	3.0	5.0	2.0	1.0	0.0	-1.0	0.0	1.0	-1.0	1.0	2.0	1.0	-2.0	3.0	5.0	1.0	2.0	2.0	1.8	6.0	-2.0
12	0.0	0.0	3.0	3.0	1.0	1.0	2.0	4.0	2.0	-1.0	0.0	2.0	4.0	7.0	4.0	2.0	1.0	0.0	1.0	0.0	3.0	5.0	3.0	3.0	2.1	7.0	-1.0
13	2.0	2.0	4.0	3.0	4.0	3.0	0.0	2.0	4.0	4.0	5.0	6.0	4.0	3.0	4.0	4.0	4.0	7.0	7.0	5.0	4.0	4.0	6.0	5.0	4.0	7.0	0.0
14	3.0	6.0	7.0	8.0	11.0	9.0	6.0	6.0	6.0	4.0	2.0	4.0	3.0	1.0	2.0	1.0	2.0	0.0	-3.0	0.0	3.0	1.0	0.0	2.0	3.5	11.0	-3.0
15	2.0	1.0	1.0	1.0	3.0	5.0	6.0	5.0	4.0	5.0	6.0	4.0	1.0	2.0	1.0	1.0	3.0	1.0	1.0	0.0	1.0	2.0	2.0	1.0	2.5	6.0	0.0
16	3.0	3.0	2.0	1.0	1.0	1.0	4.0	6.0	5.0	3.0	4.0	6.0	6.0	5.0	2.0	3.0	4.0	4.0	0.0	1.0	6.0	6.0	5.0	5.0	3.6	6.0	0.0
17	7.0	7.0	8.0	6.0	4.0	5.0	6.0	6.0	5.0	6.0	6.0	6.0	6.0	--	3.0	2.0	--	4.0	6.0	7.0	7.0	5.0	5.0	6.0	5.6	8.0	2.0
18	7.0	5.0	4.0	6.0	6.0	5.0	6.0	8.0	9.0	7.0	6.0	7.0	6.0	4.0	3.0	4.0	3.0	2.0	2.0	0.0	-1.0	0.0	3.0	4.0	4.4	9.0	-1.0
19	3.0	3.0	4.0	3.0	4.0	5.0	3.0	4.0	8.0	6.0	3.0	3.0	4.0	3.0	2.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	4.0	4.0	4.1	8.0	2.0
20	3.0	2.0	3.0	6.0	6.0	4.0	4.0	2.0	4.0	6.0	5.0	5.0	4.0	5.0	4.0	4.0	2.0	1.0	4.0	6.0	6.0	4.0	3.0	5.0	4.1	6.0	1.0
21	5.0	3.0	3.0	5.0	5.0	6.0	6.0	5.0	3.0	3.0	2.0	2.0	3.0	4.0	4.0	4.0	5.0	3.0	3.0	4.0	3.0	4.0	4.0	3.0	3.8	6.0	2.0
22	5.0	4.0	2.0	2.0	2.0	4.0	6.0	5.0	5.0	5.0	5.0	3.0	0.0	4.0	7.0	6.0	6.0	2.0	1.0	6.0	6.0	4.0	3.0	2.0	4.0	7.0	0.0
23	3.0	4.0	5.0	4.0	2.0	3.0	7.0	8.0	5.0	6.0	7.0	7.0	6.0	6.0	6.0	7.0	6.0	6.0	8.0	8.0	8.0	6.0	6.0	6.0	5.8	8.0	2.0
24	6.0	4.0	5.0	7.0	8.0	6.0	7.0	10.0	8.0	6.0	5.0	3.0	4.0	5.0	3.0	4.0	4.0	2.0	4.0	5.0	3.0	4.0	4.0	3.0	5.0	10.0	2.0
25	6.0	5.0	5.0	7.0	6.0	4.0	5.0	6.0	2.0	3.0	6.0	5.0	3.0	3.0	--	--	5.0	3.0	1.0	5.0	7.0	3.0	0.0	1.0	4.1	7.0	0.0
26	2.0	3.0	3.0	2.0	4.0	6.0	--	6.0	6.0	8.0	9.0	16.0	11.0	11.0	12.0	12.0	--	--	18.0	7.0	5.0	3.0	0.0	-1.0	6.8	18.0	-1.0
27	3.0	3.0	1.0	0.0	4.0	32.0	21.0	29.0	35.0	23.0	17.0	13.0	10.0	8.0	9.0	9.0	8.0	6.0	4.0	5.0	9.0	9.0	9.0	13.0	11.7	35.0	0.0
28	12.0	5.0	3.0	6.0	6.0	5.0	4.0	3.0	5.0	6.0	5.0	5.0	6.0	4.0	2.0	2.0	6.0	5.0	2.0	4.0	5.0	3.0	3.0	3.0	4.6	12.0	2.0
29	3.0	4.0	7.0	7.0	6.0	9.0	9.0	10.0	7.0	5.0	4.0	2.0	0.0	0.0	2.0	2.0	2.0	1.0	2.0	2.0	2.0	2.0	2.0	4.0	3.9	10.0	0.0
30	6.0	6.0	4.0	2.0	4.0	--	--	--	--	--	--	--	7.0	6.0	3.0	3.0	6.0	2.0	2.0	5.0	3.0	7.0	11.0	9.0	--	11.0	2.0
Avg	4.7	4.3	4.3	4.6	4.8	6.2	6.0	6.7	6.5	5.7	5.2	5.1	4.7	4.7	4.2	4.2	4.2	3.4	3.8	4.3	4.8	4.3	4.1	4.3	4.8	--	--
Max	12.0	13.0	12.0	11.0	12.0	32.0	21.0	29.0	35.0	23.0	17.0	16.0	11.0	11.0	12.0	12.0	8.0	8.0	18.0	8.0	9.0	9.0	11.0	13.0	--	35.0	--
Min	0.0	0.0	1.0	0.0	1.0	-1.0	0.0	2.0	2.0	-1.0	0.0	-1.0	0.0	0.0	-1.0	0.0	1.0	0.0	-3.0	0.0	-1.0	0.0	0.0	-1.0	--	--	-3.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

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

Month: May 2014

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	6.0	4.0	2.0	5.0	10.0	11.0	10.0	9.0	16.0	15.0	13.0	14.0	14.0	15.0	12.0	10.0	10.0	9.0	10.0	10.0	6.0	4.0	3.0	2.0	9.2	16.0	2.0
2	1.0	1.0	2.0	3.0	4.0	4.0	6.0	9.0	9.0	10.0	9.0	7.0	5.0	3.0	2.0	4.0	3.0	2.0	2.0	4.0	6.0	4.0	3.0	4.0	4.5	10.0	1.0
3	5.0	2.0	1.0	2.0	1.0	1.0	2.0	3.0	3.0	2.0	3.0	5.0	3.0	2.0	2.0	3.0	3.0	0.0	1.0	2.0	0.0	3.0	4.0	2.0	2.3	5.0	0.0
4	4.0	2.0	1.0	3.0	2.0	1.0	2.0	6.0	6.0	4.0	4.0	5.0	3.0	3.0	6.0	6.0	6.0	5.0	4.0	5.0	5.0	5.0	3.0	4.0	4.0	6.0	1.0
5	5.0	4.0	3.0	4.0	5.0	6.0	4.0	5.0	7.0	6.0	6.0	4.0	5.0	5.0	6.0	8.0	8.0	6.0	7.0	8.0	7.0	7.0	6.0	6.0	5.8	8.0	3.0
6	4.0	2.0	6.0	9.0	7.0	6.0	6.0	6.0	8.0	8.0	8.0	7.0	7.0	6.0	4.0	3.0	4.0	10.0	14.0	14.0	27.0	19.0	11.0	12.0	8.7	27.0	2.0
7	15.0	15.0	17.0	23.0	26.0	23.0	20.0	20.0	15.0	17.0	18.0	14.0	9.0	3.0	4.0	6.0	5.0	4.0	2.0	2.0	2.0	1.0	0.0	2.0	11.0	26.0	0.0
8	3.0	3.0	3.0	3.0	3.0	3.0	1.0	3.0	6.0	6.0	4.0	5.0	3.0	2.0	1.0	1.0	4.0	5.0	5.0	8.0	10.0	7.0	6.0	6.0	4.2	10.0	1.0
9	4.0	6.0	7.0	5.0	4.0	4.0	4.0	4.0	5.0	5.0	6.0	6.0	5.0	5.0	4.0	5.0	5.0	7.0	7.0	6.0	5.0	4.0	3.0	6.0	5.1	7.0	3.0
10	6.0	4.0	4.0	4.0	4.0	5.0	6.0	5.0	5.0	6.0	5.0	5.0	6.0	5.0	4.0	4.0	5.0	5.0	5.0	5.0	3.0	2.0	2.0	3.0	4.5	6.0	2.0
11	4.0	4.0	3.0	7.0	8.0	3.0	4.0	48.0	59.0	67.0	61.0	33.0	20.0	13.0	9.0	2.0	2.0	2.0	0.0	1.0	1.0	1.0	2.0	2.0	14.8	67.0	0.0
12	-1.0	-2.0	-2.0	-2.0	1.0	3.0	5.0	4.0	2.0	1.0	2.0	3.0	1.0	-2.0	-1.0	0.0	2.0	2.0	2.0	2.0	4.0	6.0	5.0	2.0	1.5	6.0	-2.0
13	2.0	4.0	2.0	1.0	0.0	3.0	7.0	9.0	8.0	7.0	4.0	0.0	1.0	2.0	3.0	4.0	1.0	-1.0	1.0	3.0	5.0	4.0	5.0	4.0	3.3	9.0	-1.0
14	2.0	3.0	6.0	8.0	6.0	1.0	0.0	3.0	5.0	7.0	6.0	7.0	6.0	4.0	6.0	6.0	4.0	5.0	5.0	7.0	8.0	5.0	4.0	4.0	4.9	8.0	0.0
15	5.0	4.0	4.0	4.0	5.0	7.0	5.0	5.0	4.0	3.0	5.0	4.0	5.0	6.0	5.0	5.0	3.0	3.0	5.0	6.0	7.0	5.0	4.0	5.0	4.8	7.0	3.0
16	5.0	2.0	1.0	3.0	4.0	6.0	6.0	6.0	6.0	5.0	5.0	6.0	5.0	2.0	3.0	4.0	3.0	3.0	3.0	1.0	4.0	5.0	2.0	3.0	3.9	6.0	1.0
17	5.0	4.0	6.0	3.0	1.0	2.0	5.0	5.0	4.0	6.0	7.0	7.0	7.0	7.0	7.0	8.0	9.0	6.0	5.0	5.0	4.0	6.0	7.0	6.0	5.5	9.0	1.0
18	2.0	3.0	4.0	3.0	4.0	5.0	5.0	6.0	4.0	1.0	2.0	4.0	1.0	2.0	3.0	3.0	5.0	6.0	6.0	6.0	5.0	5.0	3.0	0.0	3.7	6.0	0.0
19	1.0	3.0	4.0	5.0	3.0	4.0	5.0	4.0	3.0	2.0	5.0	5.0	4.0	3.0	2.0	2.0	3.0	4.0	4.0	3.0	3.0	4.0	4.0	2.0	3.4	5.0	1.0
20	2.0	5.0	5.0	4.0	5.0	5.0	6.0	6.0	5.0	4.0	2.0	3.0	5.0	6.0	4.0	3.0	3.0	4.0	5.0	4.0	2.0	4.0	2.0	1.0	4.0	6.0	1.0
21	1.0	1.0	4.0	4.0	3.0	3.0	4.0	3.0	2.0	2.0	3.0	5.0	4.0	2.0	3.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	5.0	5.0	3.6	6.0	1.0
22	2.0	3.0	4.0	3.0	3.0	3.0	2.0	2.0	4.0	4.0	1.0	1.0	2.0	2.0	3.0	2.0	3.0	3.0	4.0	3.0	3.0	2.0	1.0	2.0	2.6	4.0	1.0
23	4.0	4.0	2.0	4.0	3.0	0.0	1.0	4.0	4.0	2.0	1.0	1.0	0.0	0.0	0.0	3.0	5.0	2.0	0.0	-1.0	3.0	6.0	7.0	8.0	2.6	8.0	-1.0
24	6.0	5.0	5.0	4.0	4.0	5.0	6.0	7.0	5.0	1.0	2.0	3.0	3.0	2.0	0.0	0.0	2.0	5.0	6.0	7.0	10.0	9.0	6.0	5.0	4.5	10.0	0.0
25	5.0	6.0	7.0	7.0	5.0	5.0	5.0	4.0	4.0	6.0	6.0	5.0	3.0	3.0	3.0	5.0	5.0	6.0	5.0	5.0	7.0	5.0	5.0	6.0	5.1	7.0	3.0
26	5.0	5.0	4.0	3.0	0.0	3.0	7.0	7.0	7.0	6.0	5.0	7.0	6.0	6.0	7.0	9.0	8.0	7.0	9.0	9.0	6.0	3.0	2.0	3.0	5.6	9.0	0.0
27	5.0	5.0	5.0	4.0	3.0	5.0	6.0	6.0	6.0	5.0	5.0	5.0	5.0	6.0	8.0	8.0	5.0	6.0	8.0	7.0	6.0	4.0	6.0	9.0	5.8	9.0	3.0
28	7.0	4.0	4.0	6.0	6.0	6.0	7.0	6.0	5.0	4.0	4.0	3.0	3.0	6.0	7.0	5.0	5.0	5.0	4.0	4.0	3.0	3.0	4.0	5.0	4.8	7.0	3.0
29	4.0	3.0	4.0	1.0	1.0	4.0	4.0	5.0	6.0	5.0	5.0	5.0	5.0	3.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	4.0	5.0	4.0	3.8	6.0	1.0
30	2.0	2.0	5.0	6.0	7.0	6.0	5.0	7.0	6.0	5.0	4.0	5.0	5.0	3.0	--	4.0	8.0	7.0	3.0	2.0	3.0	3.0	5.0	4.0	4.7	8.0	2.0
31	3.0	4.0	5.0	4.0	2.0	2.0	4.0	4.0	5.0	3.0	1.0	4.0	4.0	2.0	3.0	5.0	6.0	5.0	3.0	3.0	5.0	5.0	3.0	3.0	3.7	6.0	1.0
Avg	4.0	3.7	4.1	4.6	4.5	4.7	5.2	7.1	7.6	7.3	6.8	6.1	5.0	4.1	4.1	4.3	4.6	4.6	4.6	4.8	5.5	4.9	4.1	4.2	5.0	--	--
Max	15.0	15.0	17.0	23.0	26.0	23.0	20.0	48.0	59.0	67.0	61.0	33.0	20.0	15.0	12.0	10.0	10.0	10.0	14.0	14.0	27.0	19.0	11.0	12.0	--	67.0	--
Min	-1.0	-2.0	-2.0	-2.0	0.0	0.0	0.0	2.0	2.0	1.0	1.0	0.0	0.0	-2.0	-1.0	0.0	1.0	-1.0	0.0	-1.0	0.0	1.0	0.0	0.0	--	--	-2.0

SAROAD for Resolution, East_Plant

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

Month: Jun 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	1.0	-1.0	-1.0	3.0	4.0	6.0	5.0	2.0	2.0	2.0	2.0	0.0	0.0	2.0	0.0	-1.0	0.0	2.0	0.0	-2.0	1.0	5.0	7.0	6.0	1.9	7.0	-2.0
2	3.0	3.0	3.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	2.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	-1.0	0.0	4.0	3.0	0.0	2.0	1.2	4.0	-1.0
3	2.0	0.0	1.0	2.0	4.0	4.0	3.0	2.0	3.0	3.0	2.0	4.0	6.0	6.0	7.0	5.0	4.0	4.0	4.0	2.0	3.0	6.0	6.0	5.0	3.7	7.0	0.0
4	5.0	5.0	3.0	1.0	2.0	4.0	2.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	0.0	-2.0	0.0	3.0	1.4	5.0	-2.0
5	3.0	0.0	0.0	-1.0	-2.0	0.0	2.0	2.0	1.0	3.0	3.0	4.0	5.0	3.0	3.0	3.0	3.0	2.0	2.0	3.0	3.0	2.0	2.0	2.0	2.0	5.0	-2.0
6	3.0	3.0	4.0	5.0	4.0	3.0	5.0	4.0	3.0	2.0	3.0	4.0	3.0	3.0	5.0	8.0	7.0	5.0	5.0	6.0	4.0	3.0	5.0	6.0	4.3	8.0	2.0
7	7.0	8.0	6.0	4.0	4.0	5.0	7.0	6.0	6.0	6.0	6.0	6.0	5.0	3.0	4.0	5.0	2.0	1.0	3.0	5.0	5.0	6.0	6.0	6.0	5.1	8.0	1.0
8	4.0	5.0	7.0	5.0	4.0	5.0	6.0	7.0	6.0	6.0	9.0	11.0	10.0	10.0	11.0	11.0	10.0	7.0	7.0	6.0	6.0	6.0	8.0	8.0	7.3	11.0	4.0
9	6.0	4.0	3.0	4.0	7.0	7.0	7.0	9.0	8.0	5.0	5.0	7.0	4.0	4.0	5.0	5.0	6.0	5.0	5.0	4.0	5.0	5.0	5.0	7.0	5.5	9.0	3.0
10	8.0	10.0	8.0	9.0	9.0	6.0	10.0	13.0	13.0	11.0	11.0	12.0	10.0	7.0	9.0	10.0	10.0	9.0	7.0	6.0	4.0	4.0	6.0	9.0	8.8	13.0	4.0
11	11.0	10.0	10.0	8.0	8.0	8.0	8.0	6.0	5.0	7.0	5.0	5.0	7.0	7.0	6.0	7.0	8.0	6.0	6.0	6.0	5.0	6.0	5.0	5.0	6.9	11.0	5.0
12	4.0	4.0	5.0	4.0	4.0	6.0	7.0	7.0	5.0	5.0	6.0	7.0	5.0	2.0	3.0	5.0	4.0	2.0	3.0	4.0	4.0	5.0	4.0	5.0	4.6	7.0	2.0
13	7.0	6.0	8.0	10.0	7.0	5.0	3.0	8.0	10.0	6.0	6.0	6.0	6.0	7.0	6.0	5.0	5.0	4.0	5.0	6.0	5.0	6.0	4.0	1.0	5.9	10.0	1.0
14	3.0	5.0	4.0	7.0	10.0	11.0	9.0	--	--	--	3.0	4.0	4.0	4.0	5.0	4.0	4.0	3.0	2.0	2.0	2.0	2.0	2.0	-1.0	4.2	11.0	-1.0
15	0.0	2.0	3.0	6.0	4.0	0.0	3.0	6.0	5.0	4.0	5.0	2.0	1.0	2.0	5.0	5.0	4.0	2.0	2.0	3.0	3.0	4.0	3.0	2.0	3.2	6.0	0.0
16	2.0	4.0	5.0	3.0	0.0	0.0	4.0	5.0	5.0	3.0	3.0	5.0	4.0	4.0	3.0	4.0	6.0	6.0	5.0	5.0	5.0	3.0	3.0	4.0	3.8	6.0	0.0
17	2.0	2.0	4.0	5.0	4.0	4.0	3.0	2.0	3.0	4.0	4.0	5.0	5.0	4.0	5.0	6.0	5.0	5.0	7.0	8.0	6.0	5.0	5.0	4.0	4.5	8.0	2.0
18	5.0	6.0	2.0	2.0	3.0	4.0	5.0	5.0	6.0	6.0	6.0	6.0	4.0	4.0	2.0	3.0	4.0	6.0	5.0	3.0	3.0	3.0	1.0	1.0	4.0	6.0	1.0
19	1.0	1.0	1.0	1.0	1.0	3.0	3.0	2.0	2.0	3.0	5.0	3.0	1.0	1.0	2.0	2.0	1.0	0.0	2.0	4.0	4.0	1.0	0.0	0.0	1.8	5.0	0.0
20	0.0	1.0	2.0	0.0	0.0	2.0	3.0	3.0	5.0	4.0	1.0	3.0	1.0	0.0	2.0	2.0	5.0	4.0	3.0	4.0	3.0	4.0	4.0	2.0	2.4	5.0	0.0
21	1.0	3.0	4.0	3.0	6.0	6.0	5.0	5.0	3.0	4.0	5.0	2.0	1.0	3.0	3.0	4.0	6.0	4.0	3.0	2.0	3.0	3.0	-1.0	0.0	3.3	6.0	-1.0
22	5.0	4.0	4.0	4.0	3.0	1.0	3.0	4.0	2.0	1.0	-1.0	-2.0	-1.0	0.0	0.0	0.0	3.0	2.0	0.0	1.0	-2.0	-3.0	1.0	2.0	1.3	5.0	-3.0
23	4.0	3.0	1.0	0.0	0.0	-1.0	0.0	3.0	2.0	2.0	4.0	4.0	1.0	0.0	-1.0	0.0	2.0	3.0	2.0	2.0	3.0	2.0	1.0	-1.0	1.5	4.0	-1.0
24	1.0	4.0	4.0	2.0	2.0	3.0	5.0	6.0	3.0	2.0	2.0	2.0	3.0	2.0	2.0	3.0	2.0	3.0	2.0	5.0	6.0	2.0	2.0	1.0	2.9	6.0	1.0
25	1.0	4.0	5.0	3.0	2.0	4.0	5.0	5.0	5.0	4.0	2.0	2.0	1.0	1.0	3.0	3.0	4.0	3.0	1.0	2.0	2.0	2.0	4.0	3.0	3.0	5.0	1.0
26	1.0	2.0	5.0	4.0	0.0	0.0	1.0	3.0	3.0	1.0	2.0	4.0	2.0	2.0	4.0	2.0	2.0	3.0	2.0	4.0	5.0	5.0	3.0	1.0	2.5	5.0	0.0
27	2.0	5.0	5.0	6.0	7.0	6.0	4.0	3.0	--	5.0	7.0	7.0	8.0	5.0	4.0	7.0	7.0	7.0	9.0	7.0	6.0	6.0	3.0	3.0	5.6	9.0	2.0
28	4.0	4.0	2.0	2.0	1.0	2.0	4.0	3.0	2.0	4.0	5.0	6.0	6.0	6.0	5.0	4.0	6.0	5.0	3.0	2.0	1.0	2.0	2.0	2.0	3.5	6.0	1.0
29	4.0	5.0	6.0	5.0	2.0	2.0	4.0	5.0	8.0	12.0	11.0	11.0	11.0	11.0	10.0	8.0	8.0	8.0	8.0	7.0	4.0	3.0	3.0	4.0	6.7	12.0	2.0
30	6.0	4.0	3.0	5.0	5.0	5.0	6.0	6.0	5.0	5.0	5.0	3.0	2.0	2.0	6.0	8.0	7.0	6.0	5.0	4.0	2.0	8.0	10.0	5.0	5.1	10.0	2.0
Avg	3.5	3.9	3.9	3.8	3.5	3.7	4.4	4.6	4.4	4.2	4.3	4.5	3.9	3.6	4.0	4.3	4.5	3.9	3.6	3.7	3.5	3.6	3.5	3.2	3.9	--	--
Max	11.0	10.0	10.0	10.0	10.0	11.0	10.0	13.0	13.0	12.0	11.0	12.0	11.0	11.0	11.0	11.0	10.0	9.0	9.0	8.0	6.0	8.0	10.0	9.0	--	13.0	--
Min	0.0	-1.0	-1.0	-1.0	-2.0	-1.0	0.0	1.0	0.0	1.0	-1.0	-2.0	-1.0	0.0	-1.0	-1.0	0.0	0.0	-1.0	-2.0	-2.0	-3.0	-1.0	-1.0	--	--	-3.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

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

Month: Apr 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	3.0	2.0	2.0	3.0	4.0	4.0	3.0	0.0	-1.0	0.0	1.0	3.0	3.0	2.0	0.0	3.0	6.0	5.0	3.0	3.0	4.0	3.0	5.0	2.7	6.0	-1.0
2	8.0	7.0	6.0	5.0	6.0	9.0	10.0	9.0	9.0	6.0	3.0	2.0	4.0	3.0	2.0	3.0	1.0	2.0	5.0	5.0	4.0	4.0	3.0	4.0	5.0	10.0	1.0
3	6.0	9.0	11.0	11.0	12.0	10.0	9.0	9.0	7.0	3.0	1.0	3.0	6.0	5.0	2.0	3.0	5.0	6.0	7.0	7.0	6.0	5.0	4.0	2.0	6.2	12.0	1.0
4	2.0	1.0	0.0	0.0	0.0	1.0	0.0	2.0	3.0	3.0	1.0	-1.0	0.0	1.0	1.0	2.0	1.0	3.0	5.0	5.0	1.0	2.0	4.0	5.0	1.8	5.0	-1.0
5	3.0	3.0	2.0	2.0	4.0	2.0	2.0	5.0	2.0	0.0	0.0	-1.0	0.0	1.0	2.0	1.0	5.0	6.0	5.0	6.0	4.0	5.0	5.0	6.0	2.9	6.0	-1.0
6	6.0	4.0	3.0	5.0	5.0	4.0	5.0	8.0	6.0	2.0	-1.0	-2.0	1.0	0.0	-2.0	1.0	3.0	3.0	4.0	3.0	3.0	3.0	1.0	-1.0	2.7	8.0	-2.0
7	2.0	5.0	3.0	3.0	2.0	1.0	1.0	1.0	-2.0	-1.0	0.0	--	0.0	-4.0	-8.0	-6.0	-3.0	-1.0	0.0	-1.0	-1.0	-1.0	-2.0	-1.0	-0.6	5.0	-8.0
8	0.0	0.0	-2.0	-2.0	0.0	0.0	-2.0	-4.0	-5.0	-6.0	-7.0	-4.0	0.0	-3.0	-7.0	-7.0	-8.0	-6.0	-2.0	-2.0	-1.0	1.0	0.0	-2.0	-2.9	1.0	-8.0
9	-1.0	1.0	1.0	0.0	0.0	-3.0	-6.0	-6.0	-6.0	-7.0	-7.0	-7.0	-5.0	-3.0	-4.0	-4.0	-4.0	-5.0	-2.0	-1.0	-1.0	-3.0	-3.0	-2.0	-3.3	1.0	-7.0
10	-1.0	-1.0	-2.0	-1.0	-2.0	-2.0	-3.0	-4.0	-4.0	-5.0	-6.0	-7.0	-4.0	-4.0	-4.0	--	--	0.0	-2.0	-2.0	-2.0	-3.0	1.0	3.0	-2.5	3.0	-7.0
11	2.0	1.0	-1.0	-1.0	-1.0	1.0	4.0	4.0	-1.0	-4.0	-5.0	-6.0	-3.0	0.0	-1.0	-3.0	-3.0	-1.0	1.0	4.0	5.0	5.0	5.0	2.0	0.2	5.0	-6.0
12	3.0	5.0	0.0	-1.0	0.0	-1.0	1.0	1.0	-2.0	-3.0	-2.0	-3.0	-4.0	-3.0	0.0	2.0	2.0	2.0	1.0	2.0	4.0	5.0	5.0	1.0	0.6	5.0	-4.0
13	2.0	4.0	4.0	2.0	2.0	4.0	4.0	5.0	1.0	-2.0	-2.0	-2.0	0.0	3.0	4.0	18.0	8.0	39.0	21.0	3.0	5.0	6.0	4.0	3.0	5.7	39.0	-2.0
14	5.0	6.0	7.0	7.0	8.0	5.0	6.0	7.0	4.0	2.0	-1.0	-2.0	-1.0	0.0	-2.0	-3.0	-3.0	-1.0	2.0	1.0	0.0	2.0	2.0	0.0	2.1	8.0	-3.0
15	1.0	2.0	1.0	3.0	2.0	1.0	2.0	-1.0	-1.0	0.0	2.0	1.0	-2.0	-3.0	-2.0	0.0	2.0	2.0	1.0	5.0	7.0	6.0	4.0	4.0	1.5	7.0	-3.0
16	2.0	1.0	4.0	3.0	3.0	3.0	3.0	3.0	-1.0	-1.0	0.0	0.0	0.0	1.0	1.0	0.0	-1.0	0.0	3.0	3.0	4.0	3.0	2.0	3.0	1.6	4.0	-1.0
17	4.0	4.0	4.0	5.0	4.0	0.0	1.0	3.0	2.0	1.0	-2.0	-2.0	1.0	2.0	2.0	0.0	1.0	5.0	4.0	6.0	6.0	4.0	3.0	6.0	2.7	6.0	-2.0
18	6.0	4.0	6.0	6.0	5.0	5.0	3.0	4.0	7.0	5.0	3.0	4.0	2.0	1.0	2.0	3.0	3.0	3.0	1.0	-1.0	3.0	2.0	-1.0	0.0	3.2	7.0	-1.0
19	2.0	2.0	0.0	-1.0	0.0	0.0	3.0	3.0	0.0	2.0	1.0	-2.0	0.0	3.0	2.0	5.0	6.0	1.0	2.0	4.0	5.0	3.0	4.0	5.0	2.1	6.0	-2.0
20	2.0	0.0	1.0	3.0	4.0	3.0	4.0	3.0	0.0	-1.0	-2.0	-2.0	1.0	0.0	-2.0	-1.0	3.0	6.0	5.0	4.0	5.0	5.0	3.0	1.0	1.9	6.0	-2.0
21	3.0	2.0	1.0	2.0	2.0	3.0	6.0	6.0	2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0	1.0
22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--	-1.0	3.0	4.0	4.0	4.0	5.0	6.0	7.0	9.0	10.0	6.0	6.0	--	10.0	-1.0
25	8.0	8.0	9.0	9.0	9.0	7.0	10.0	11.0	5.0	3.0	3.0	4.0	6.0	6.0	6.0	9.0	23.0	8.0	10.0	12.0	8.0	5.0	6.0	8.0	8.0	23.0	3.0
26	6.0	3.0	5.0	8.0	11.0	11.0	8.0	8.0	6.0	6.0	10.0	24.0	16.0	5.0	8.0	17.0	18.0	18.0	17.0	6.0	5.0	5.0	5.0	3.0	9.5	24.0	3.0
27	4.0	2.0	-1.0	3.0	4.0	22.0	26.0	32.0	34.0	25.0	14.0	13.0	10.0	9.0	12.0	11.0	9.0	8.0	8.0	8.0	9.0	10.0	10.0	11.0	12.2	34.0	-1.0
28	10.0	10.0	9.0	8.0	7.0	5.0	5.0	6.0	--	--	--	--	--	--	4.0	5.0	--	--	--	7.0	8.0	9.0	8.0	4.0	--	10.0	4.0
29	4.0	5.0	5.0	4.0	4.0	5.0	6.0	9.0	8.0	6.0	4.0	1.0	1.0	2.0	1.0	0.0	2.0	2.0	3.0	6.0	5.0	5.0	5.0	5.0	4.1	9.0	0.0
30	7.0	7.0	4.0	3.0	3.0	4.0	5.0	5.0	3.0	--	3.0	3.0	4.0	4.0	5.0	2.0	1.0	0.0	4.0	8.0	5.0	7.0	11.0	9.0	4.7	11.0	0.0
Avg	3.7	3.6	3.0	3.3	3.6	3.9	4.3	4.9	3.0	1.4	0.4	0.6	1.4	1.2	1.0	2.4	3.1	4.3	4.4	4.0	4.0	4.0	3.6	3.3	2.9	--	--
Max	10.0	10.0	11.0	11.0	12.0	22.0	26.0	32.0	34.0	25.0	14.0	24.0	16.0	9.0	12.0	18.0	23.0	39.0	21.0	12.0	9.0	10.0	11.0	11.0	--	39.0	--
Min	-1.0	-1.0	-2.0	-2.0	-2.0	-3.0	-6.0	-6.0	-6.0	-7.0	-7.0	-7.0	-5.0	-4.0	-8.0	-7.0	-8.0	-6.0	-2.0	-2.0	-2.0	-3.0	-3.0	-2.0	--	--	-8.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

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

Month: May 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	6.0	6.0	6.0	9.0	11.0	11.0	10.0	11.0	13.0	12.0	13.0	13.0	12.0	13.0	11.0	11.0	9.0	8.0	9.0	9.0	5.0	2.0	5.0	9.2	13.0	2.0
2	6.0	6.0	6.0	5.0	4.0	4.0	6.0	7.0	7.0	7.0	6.0	7.0	8.0	8.0	7.0	4.0	4.0	3.0	3.0	8.0	11.0	10.0	8.0	9.0	6.4	11.0	3.0
3	9.0	5.0	5.0	5.0	5.0	6.0	7.0	5.0	4.0	2.0	1.0	-1.0	-1.0	2.0	2.0	2.0	4.0	3.0	3.0	4.0	6.0	6.0	7.0	6.0	4.0	9.0	-1.0
4	4.0	5.0	7.0	8.0	6.0	5.0	3.0	1.0	1.0	1.0	1.0	0.0	2.0	7.0	8.0	4.0	4.0	6.0	8.0	9.0	9.0	9.0	9.0	6.0	5.1	9.0	0.0
5	7.0	6.0	6.0	8.0	7.0	7.0	8.0	6.0	4.0	2.0	3.0	9.0	10.0	9.0	11.0	8.0	8.0	9.0	8.0	9.0	11.0	12.0	10.0	9.0	7.8	12.0	2.0
6	7.0	8.0	8.0	8.0	9.0	8.0	9.0	8.0	7.0	4.0	--	6.0	8.0	5.0	6.0	8.0	10.0	13.0	20.0	24.0	29.0	16.0	17.0	23.0	11.3	29.0	4.0
7	21.0	18.0	23.0	24.0	28.0	24.0	29.0	21.0	19.0	20.0	17.0	17.0	4.0	7.0	7.0	7.0	8.0	6.0	7.0	6.0	5.0	7.0	6.0	6.0	14.0	29.0	4.0
8	4.0	2.0	5.0	5.0	6.0	4.0	3.0	5.0	6.0	6.0	5.0	5.0	5.0	6.0	6.0	5.0	5.0	7.0	8.0	9.0	7.0	8.0	8.0	7.0	5.7	9.0	2.0
9	6.0	7.0	8.0	6.0	6.0	6.0	7.0	5.0	4.0	4.0	5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.0	4.0
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.0	-1.0	3.0	7.0	8.0	7.0	2.0	2.0	--	8.0	-1.0
13	4.0	5.0	6.0	6.0	6.0	5.0	19.0	19.0	4.0	2.0	3.0	4.0	4.0	3.0	0.0	1.0	2.0	2.0	3.0	5.0	7.0	6.0	4.0	4.0	5.2	19.0	0.0
14	5.0	9.0	11.0	12.0	12.0	8.0	6.0	7.0	4.0	--	2.0	7.0	7.0	6.0	6.0	6.0	5.0	6.0	7.0	9.0	12.0	11.0	9.0	6.0	7.5	12.0	2.0
15	7.0	6.0	5.0	7.0	10.0	8.0	8.0	6.0	4.0	3.0	3.0	3.0	6.0	7.0	6.0	4.0	5.0	6.0	4.0	5.0	7.0	8.0	8.0	6.0	5.9	10.0	3.0
16	6.0	6.0	5.0	6.0	4.0	5.0	6.0	4.0	0.0	0.0	2.0	3.0	1.0	2.0	5.0	6.0	6.0	5.0	6.0	7.0	4.0	6.0	6.0	6.0	4.5	7.0	0.0
17	8.0	7.0	6.0	6.0	8.0	7.0	6.0	3.0	2.0	4.0	3.0	5.0	6.0	7.0	8.0	7.0	7.0	8.0	9.0	8.0	8.0	11.0	10.0	7.0	6.7	11.0	2.0
18	7.0	6.0	6.0	5.0	7.0	7.0	5.0	5.0	4.0	5.0	4.0	5.0	7.0	6.0	6.0	6.0	6.0	5.0	6.0	9.0	10.0	8.0	6.0	4.0	6.0	10.0	4.0
19	4.0	6.0	6.0	4.0	4.0	4.0	4.0	2.0	0.0	1.0	2.0	3.0	5.0	7.0	8.0	7.0	8.0	7.0	6.0	6.0	5.0	7.0	7.0	5.0	4.9	8.0	0.0
20	6.0	9.0	10.0	8.0	5.0	5.0	7.0	6.0	4.0	2.0	1.0	3.0	5.0	4.0	1.0	3.0	4.0	5.0	7.0	6.0	5.0	6.0	5.0	5.0	5.1	10.0	1.0
21	6.0	4.0	3.0	3.0	3.0	5.0	5.0	5.0	4.0	2.0	4.0	4.0	6.0	7.0	7.0	4.0	3.0	4.0	7.0	9.0	8.0	8.0	9.0	8.0	5.3	9.0	2.0
22	7.0	9.0	8.0	8.0	7.0	5.0	7.0	9.0	5.0	1.0	0.0	0.0	2.0	4.0	4.0	3.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	6.0	4.9	9.0	0.0
23	4.0	3.0	4.0	4.0	5.0	6.0	3.0	1.0	1.0	2.0	1.0	--	--	0.0	-1.0	-1.0	0.0	4.0	4.0	1.0	1.0	3.0	5.0	5.0	2.5	6.0	-1.0
24	5.0	3.0	4.0	5.0	3.0	2.0	5.0	5.0	4.0	5.0	3.0	0.0	1.0	1.0	2.0	4.0	5.0	7.0	8.0	10.0	11.0	9.0	8.0	--	4.8	11.0	0.0
25	8.0	--	--	8.0	6.0	4.0	--	--	3.0	3.0	3.0	2.0	4.0	4.0	5.0	4.0	2.0	6.0	6.0	6.0	8.0	7.0	6.0	7.0	5.1	8.0	2.0
26	6.0	7.0	7.0	4.0	6.0	9.0	6.0	5.0	3.0	2.0	4.0	5.0	5.0	6.0	6.0	8.0	9.0	8.0	8.0	10.0	8.0	7.0	8.0	8.0	6.5	10.0	2.0
27	7.0	5.0	5.0	6.0	9.0	6.0	4.0	4.0	1.0	0.0	3.0	5.0	4.0	4.0	5.0	5.0	7.0	6.0	5.0	7.0	9.0	8.0	8.0	10.0	5.5	10.0	0.0
28	7.0	4.0	5.0	6.0	7.0	6.0	4.0	3.0	3.0	3.0	3.0	3.0	4.0	5.0	7.0	5.0	4.0	4.0	5.0	6.0	7.0	6.0	7.0	10.0	5.2	10.0	3.0
29	7.0	3.0	4.0	4.0	4.0	4.0	6.0	7.0	3.0	4.0	6.0	5.0	2.0	1.0	--	32.0	-3.0	0.0	5.0	7.0	10.0	10.0	4.0	3.0	5.6	32.0	-3.0
30	5.0	4.0	4.0	6.0	6.0	6.0	4.0	1.0	3.0	3.0	1.0	2.0	4.0	5.0	4.0	5.0	4.0	3.0	6.0	7.0	6.0	6.0	5.0	3.0	4.3	7.0	1.0
31	3.0	2.0	2.0	3.0	2.0	3.0	4.0	4.0	2.0	1.0	1.0	1.0	1.0	3.0	5.0	5.0	3.0	3.0	6.0	7.0	4.0	3.0	6.0	6.0	3.3	7.0	1.0
Avg	6.5	6.0	6.5	6.6	6.9	6.4	7.1	6.1	4.2	3.8	3.7	4.5	4.7	5.1	5.5	6.0	5.0	5.3	6.4	7.6	8.2	7.7	7.0	6.7	6.0	--	--
Max	21.0	18.0	23.0	24.0	28.0	24.0	29.0	21.0	19.0	20.0	17.0	17.0	13.0	12.0	13.0	32.0	11.0	13.0	20.0	24.0	29.0	16.0	17.0	23.0	--	32.0	--
Min	3.0	2.0	2.0	3.0	2.0	2.0	3.0	1.0	0.0	0.0	0.0	-1.0	-1.0	0.0	-1.0	-1.0	-3.0	-1.0	3.0	1.0	1.0	3.0	2.0	2.0	--	--	-3.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

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

Month: Jun 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	5.0	5.0	5.0	5.0	2.0	0.0	-2.0	1.0	2.0	2.0	2.0	2.0	2.0	3.0	6.0	4.0	2.0	3.0	6.0	7.0	4.0	3.2	7.0	-2.0
2	-1.0	-1.0	2.0	4.0	4.0	6.0	3.0	0.0	1.0	-1.0	-3.0	-1.0	3.0	3.0	3.0	6.0	7.0	5.0	3.0	4.0	1.0	2.0	4.0	3.0	2.4	7.0	-3.0
3	2.0	0.0	1.0	2.0	2.0	2.0	2.0	2.0	-3.0	-3.0	3.0	8.0	9.0	6.0	6.0	7.0	2.0	2.0	6.0	6.0	8.0	8.0	5.0	5.0	3.7	9.0	-3.0
4	4.0	5.0	6.0	4.0	4.0	3.0	8.0	7.0	-2.0	-2.0	2.0	2.0	5.0	6.0	5.0	4.0	2.0	3.0	2.0	3.0	6.0	6.0	2.0	0.0	3.5	8.0	-2.0
5	1.0	3.0	1.0	0.0	3.0	6.0	6.0	5.0	3.0	2.0	1.0	1.0	0.0	2.0	6.0	6.0	4.0	4.0	4.0	4.0	8.0	9.0	7.0	5.0	3.8	9.0	0.0
6	6.0	6.0	5.0	5.0	4.0	7.0	8.0	6.0	6.0	2.0	1.0	2.0	4.0	6.0	6.0	5.0	6.0	5.0	4.0	6.0	9.0	29.0	23.0	24.0	7.7	29.0	1.0
7	9.0	21.0	10.0	7.0	6.0	10.0	9.0	8.0	6.0	2.0	3.0	6.0	7.0	8.0	7.0	5.0	3.0	5.0	8.0	9.0	10.0	11.0	10.0	7.0	7.8	21.0	2.0
8	6.0	5.0	5.0	7.0	25.0	11.0	9.0	--	7.0	6.0	5.0	5.0	6.0	7.0	8.0	9.0	9.0	6.0	9.0	12.0	9.0	10.0	10.0	9.0	8.5	25.0	5.0
9	8.0	7.0	4.0	4.0	8.0	9.0	8.0	4.0	5.0	2.0	0.0	2.0	1.0	2.0	6.0	8.0	6.0	6.0	7.0	6.0	17.0	6.0	7.0	8.0	5.9	17.0	0.0
10	9.0	9.0	10.0	8.0	7.0	8.0	15.0	--	9.0	9.0	5.0	4.0	8.0	9.0	8.0	8.0	16.0	15.0	11.0	6.0	5.0	5.0	9.0	10.0	8.8	16.0	4.0
11	8.0	7.0	9.0	10.0	9.0	8.0	8.0	5.0	4.0	5.0	7.0	7.0	7.0	6.0	4.0	5.0	7.0	8.0	6.0	7.0	7.0	9.0	11.0	7.0	7.1	11.0	4.0
12	4.0	7.0	6.0	2.0	6.0	9.0	7.0	4.0	1.0	0.0	0.0	2.0	3.0	2.0	2.0	3.0	2.0	3.0	3.0	5.0	7.0	8.0	9.0	7.0	4.3	9.0	0.0
13	2.0	2.0	5.0	5.0	5.0	6.0	7.0	6.0	49.0	5.0	6.0	29.0	6.0	7.0	8.0	6.0	4.0	8.0	9.0	4.0	6.0	10.0	7.0	3.0	8.5	49.0	2.0
14	4.0	6.0	6.0	5.0	7.0	10.0	11.0	8.0	5.0	3.0	3.0	2.0	2.0	4.0	8.0	11.0	10.0	4.0	0.0	1.0	4.0	5.0	4.0	3.0	5.3	11.0	0.0
15	5.0	4.0	4.0	6.0	6.0	5.0	5.0	2.0	0.0	2.0	3.0	1.0	1.0	3.0	5.0	7.0	7.0	5.0	6.0	8.0	7.0	5.0	3.0	4.0	4.3	8.0	0.0
16	7.0	6.0	5.0	3.0	4.0	7.0	6.0	5.0	2.0	0.0	0.0	-1.0	-1.0	5.0	6.0	8.0	11.0	7.0	6.0	7.0	4.0	5.0	6.0	3.0	4.6	11.0	-1.0
17	2.0	5.0	6.0	7.0	5.0	6.0	7.0	3.0	2.0	5.0	3.0	3.0	6.0	6.0	5.0	4.0	6.0	10.0	10.0	8.0	7.0	4.0	20.0	46.0	7.8	46.0	2.0
18	10.0	6.0	1.0	1.0	3.0	2.0	6.0	7.0	2.0	3.0	4.0	3.0	2.0	3.0	5.0	21.0	5.0	4.0	5.0	4.0	4.0	6.0	5.0	2.0	4.8	21.0	1.0
19	1.0	2.0	2.0	3.0	2.0	4.0	6.0	5.0	4.0	3.0	3.0	2.0	0.0	1.0	2.0	2.0	1.0	0.0	1.0	2.0	3.0	4.0	6.0	6.0	2.7	6.0	0.0
20	4.0	5.0	6.0	4.0	3.0	4.0	4.0	1.0	-2.0	0.0	0.0	0.0	0.0	5.0	6.0	3.0	1.0	3.0	6.0	6.0	5.0	4.0	6.0	5.0	3.3	6.0	-2.0
21	3.0	4.0	6.0	7.0	9.0	9.0	9.0	5.0	2.0	2.0	3.0	0.0	-2.0	3.0	4.0	5.0	6.0	5.0	5.0	5.0	5.0	7.0	6.0	5.0	4.7	9.0	-2.0
22	6.0	7.0	7.0	5.0	3.0	0.0	1.0	3.0	1.0	2.0	-1.0	-3.0	-1.0	1.0	3.0	3.0	0.0	0.0	3.0	5.0	6.0	10.0	8.0	5.0	3.1	10.0	-3.0
23	5.0	3.0	3.0	2.0	6.0	8.0	3.0	1.0	-1.0	-1.0	0.0	-1.0	0.0	2.0	2.0	2.0	3.0	2.0	1.0	3.0	4.0	3.0	2.0	3.0	2.3	8.0	-1.0
24	5.0	4.0	4.0	5.0	6.0	6.0	2.0	1.0	0.0	-1.0	-2.0	-1.0	0.0	1.0	3.0	2.0	1.0	-1.0	2.0	3.0	3.0	5.0	4.0	3.0	2.3	6.0	-2.0
25	2.0	-1.0	0.0	--	--	2.0	--	1.0	2.0	1.0	-1.0	-4.0	-2.0	2.0	2.0	2.0	3.0	4.0	4.0	3.0	4.0	6.0	5.0	2.0	1.8	6.0	-4.0
26	1.0	3.0	4.0	3.0	3.0	2.0	3.0	3.0	0.0	-2.0	0.0	2.0	3.0	3.0	6.0	9.0	5.0	5.0	6.0	5.0	3.0	4.0	6.0	8.0	3.5	9.0	-2.0
27	6.0	5.0	7.0	7.0	9.0	9.0	7.0	5.0	4.0	--	6.0	4.0	1.0	2.0	2.0	4.0	3.0	2.0	4.0	4.0	4.0	4.0	4.0	5.0	4.7	9.0	1.0
28	5.0	5.0	6.0	3.0	2.0	5.0	8.0	4.0	0.0	1.0	1.0	3.0	4.0	3.0	3.0	4.0	4.0	2.0	4.0	5.0	3.0	4.0	4.0	5.0	3.7	8.0	0.0
29	7.0	8.0	6.0	3.0	4.0	5.0	5.0	2.0	6.0	10.0	9.0	11.0	8.0	8.0	12.0	12.0	10.0	38.0	11.0	26.0	9.0	7.0	3.0	3.0	9.3	38.0	2.0
30	6.0	3.0	3.0	7.0	9.0	7.0	6.0	5.0	2.0	3.0	4.0	2.0	0.0	-1.0	2.0	5.0	1.0	2.0	5.0	3.0	2.0	6.0	6.0	4.0	3.8	9.0	-1.0
Avg	4.7	5.0	4.8	4.6	5.8	6.0	6.3	3.9	3.8	1.9	2.2	3.1	2.7	3.9	4.9	5.9	4.9	5.6	5.2	5.7	5.8	6.9	7.0	6.8	4.9	--	--
Max	10.0	21.0	10.0	10.0	25.0	11.0	15.0	8.0	49.0	10.0	9.0	29.0	9.0	9.0	12.0	21.0	16.0	38.0	11.0	26.0	17.0	29.0	23.0	46.0	--	49.0	--
Min	-1.0	-1.0	0.0	0.0	2.0	0.0	1.0	0.0	-3.0	-3.0	-3.0	-4.0	-2.0	-1.0	2.0	2.0	0.0	-1.0	0.0	1.0	1.0	2.0	2.0	0.0	--	--	-4.0

-- 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: Apr 2014

Hour of day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	--	-1.5	-2.1	-2.3	-2.2	-2.2	-2.0	-1.9	-1.8	-1.5	-2.0	-1.9	-1.5	-1.5	-1.8	-1.7	-1.8	-1.8	-1.8	-1.6	-1.1	-0.8	-0.4	-0.4	-1.6	-0.4	-2.3
2	0.0	-0.4	-1.5	-1.4	-1.4	-1.2	-0.9	-1.0	-1.2	-1.3	-1.5	-1.4	-1.2	-1.4	-1.4	-1.4	-1.7	-1.9	-1.7	-1.6	-1.9	-1.8	-1.9	-1.6	-1.4	0.0	-1.9
3	-1.5	-1.3	-0.8	0.0	-0.6	3.4	3.7	4.0	2.5	-0.5	-0.8	-1.0	-1.1	-1.3	-1.3	-1.4	-1.3	-1.1	-0.6	0.3	1.0	0.8	0.5	-0.9	0.0	4.0	-1.5
4	-1.5	-1.3	-1.2	-0.7	-0.9	0.0	-0.2	1.5	0.6	0.2	0.7	1.1	--	-1.8	-1.8	-1.8	-2.1	-2.1	-2.1	-1.9	-1.7	-2.0	-1.8	-0.1	-0.9	1.5	-2.1
5	-1.2	-0.7	1.0	0.5	-0.5	-0.7	-0.3	0.1	0.0	-0.6	-1.2	-1.4	-1.4	-1.4	-1.4	-1.5	-1.3	-1.4	-1.2	-0.6	-0.6	-0.7	-0.6	-0.7	-0.7	1.0	-1.5
6	0.5	-0.9	-0.3	-0.1	-0.1	0.1	0.8	0.3	-0.5	-0.7	-0.8	-1.1	-1.1	-1.1	-1.2	-1.0	-0.9	-0.9	-0.9	-0.7	-0.8	-1.0	-1.1	-1.0	-0.6	0.8	-1.2
7	0.9	-0.7	-0.4	0.3	1.6	1.2	1.3	0.7	-0.3	-0.4	-0.3	-0.5	-1.2	-1.6	-1.8	-1.8	-2.2	-2.0	-1.7	-0.9	-0.8	-0.5	-0.5	-1.0	-0.5	1.6	-2.2
8	-0.9	-1.1	-1.6	-1.7	-2.1	-0.1	-0.3	-1.1	0.4	0.2	0.3	-0.3	-1.5	-1.9	-2.3	-2.3	-1.8	-1.1	-2.1	-1.5	-1.4	-0.4	-1.2	-2.0	-1.2	0.4	-2.3
9	-2.3	1.6	1.5	-1.2	-1.6	-0.8	0.2	1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	0.5	0.5	0.7	1.0	1.2	1.5	4.3	5.4	2.4	0.7	2.6	0.5	-0.1	-0.3	-0.1	0.0	-0.1	0.0	0.1	1.9	0.2	-0.1	-0.3	-0.4	0.9	5.4	-0.4
12	-0.4	-0.5	-0.5	-0.5	-0.6	-0.5	0.1	-0.2	-0.1	-0.2	-0.1	-0.2	-0.1	-0.3	-0.2	-0.1	-0.1	0.0	-0.2	-0.2	-0.1	0.0	0.2	0.0	-0.2	0.2	-0.6
13	0.1	0.0	-0.1	-0.2	-0.3	1.3	1.2	2.1	-0.1	-0.1	0.0	0.1	0.2	0.1	0.1	0.2	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	2.1	-0.3
14	0.4	0.1	0.7	0.8	0.5	0.6	0.5	0.6	0.8	0.6	0.5	0.7	2.9	2.9	0.7	0.5	0.1	-0.2	-0.3	-0.3	0.2	-0.3	-0.3	-0.3	0.5	2.9	-0.3
15	-0.2	-0.1	0.0	0.1	1.0	1.3	1.1	1.2	0.9	0.8	1.0	0.2	0.2	0.5	0.5	0.6	0.0	-0.2	0.0	0.5	0.5	1.3	0.7	0.4	0.5	1.3	-0.2
16	0.5	0.7	0.8	0.5	0.2	6.7	5.1	7.9	6.5	2.0	1.3	0.8	0.7	0.3	0.0	0.1	0.0	0.1	0.4	0.7	5.8	0.8	0.7	0.4	1.8	7.9	0.0
17	0.2	0.2	0.0	-0.3	-0.4	0.7	1.3	10.2	4.5	0.3	0.2	0.2	0.3	0.4	0.8	0.2	1.9	2.2	1.3	0.2	0.7	0.5	0.5	0.4	1.1	10.2	-0.4
18	6.0	0.6	0.7	0.6	1.4	3.6	4.9	7.4	5.9	--	--	0.7	1.3	0.7	0.1	0.8	0.3	0.5	0.4	0.3	1.2	1.0	2.6	0.8	1.9	7.4	0.1
19	1.8	0.7	3.2	1.6	2.6	1.8	2.2	2.8	3.4	1.9	1.2	1.3	0.6	0.7	0.5	0.1	0.1	0.1	0.3	0.6	0.8	3.1	1.2	1.1	1.4	3.4	0.1
20	2.2	2.4	4.2	4.1	2.7	1.5	2.0	2.5	2.0	1.3	1.5	1.1	0.8	0.6	0.6	0.5	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.5	1.4	4.2	0.3
21	0.9	1.0	0.5	0.2	0.2	0.8	6.0	3.6	3.1	2.2	1.3	1.4	1.9	2.7	0.7	0.5	0.4	0.2	0.0	0.1	0.1	0.7	0.8	0.4	1.2	6.0	0.0
22	0.1	0.0	0.3	0.8	1.3	5.0	4.5	4.0	2.7	2.1	1.5	0.9	0.3	0.3	0.2	0.2	0.0	-0.2	-0.2	-0.1	-0.2	-0.3	-0.3	-0.2	1.0	5.0	-0.3
23	-0.3	-0.4	-0.3	-0.4	-0.4	-0.2	0.0	0.3	0.2	0.5	0.6	0.5	0.5	0.6	1.3	1.3	0.4	0.4	0.4	0.4	0.5	0.4	2.9	1.9	0.5	2.9	-0.4
24	-0.1	0.2	0.2	0.4	0.0	0.3	2.6	4.5	2.1	0.8	0.3	0.7	0.7	--	-0.7	-0.8	-0.7	-1.1	-1.1	-1.0	-0.7	1.0	0.4	0.3	0.4	4.5	-1.1
25	-0.2	-0.6	-0.4	1.0	0.3	1.0	2.3	6.5	0.5	-0.3	-0.4	-0.8	-0.7	-0.8	-1.0	-0.8	-1.2	-1.3	-1.2	-1.3	-1.4	-1.4	-1.5	-1.5	-0.2	6.5	-1.5
26	-1.4	-1.4	-1.4	-1.4	-1.2	-1.1	--	--	-0.9	-0.8	-0.5	0.4	0.6	0.4	0.5	-0.1	--	--	-0.6	-0.4	0.0	0.0	-0.1	-0.2	-0.5	0.6	-1.4
27	-0.3	-0.6	-0.9	-0.8	-0.7	-0.9	0.3	0.1	-0.5	-0.4	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4	-0.6	-0.8	-0.7	-0.5	-0.4	0.4	0.8	0.4	-0.3	0.8	-0.9
28	0.0	-0.7	-0.7	-0.7	-0.3	-0.1	3.0	2.3	1.3	0.1	0.3	-0.1	-0.3	-0.2	0.3	0.5	1.3	0.4	0.5	0.9	0.6	0.5	1.5	1.5	0.5	3.0	-0.7
29	-0.4	-1.1	-1.1	-0.9	-0.6	-0.7	-0.8	0.1	-0.6	0.1	0.1	-0.2	-0.3	1.3	0.1	0.9	4.9	5.0	0.6	-1.3	-1.2	-1.4	-0.4	-0.6	0.1	5.0	-1.4
30	-0.5	-0.6	-0.7	-1.3	-1.2	-0.8	-0.5	-0.1	1.1	0.5	-0.3	-0.3	0.0	1.3	1.0	1.1	0.6	0.0	-0.8	-1.1	-1.2	-1.3	-1.3	-1.2	-0.3	1.3	-1.3
Avg	0.1	-0.2	0.0	-0.1	-0.1	0.7	1.5	2.3	1.2	0.3	0.2	0.0	0.0	0.0	-0.3	-0.3	-0.2	-0.3	-0.5	-0.3	-0.1	0.0	0.1	-0.1	0.2	--	--
Max	6.0	2.4	4.2	4.1	2.7	6.7	6.0	10.2	6.5	2.2	2.6	1.4	2.9	2.9	1.3	1.3	4.9	5.0	1.3	1.9	5.8	3.1	2.9	1.9	--	10.2	--
Min	-2.3	-1.5	-2.1	-2.3	-2.2	-2.2	-2.0	-1.9	-1.8	-1.5	-2.0	-1.9	-1.5	-1.9	-2.3	-2.3	-2.2	-2.1	-2.1	-1.9	-1.9	-2.0	-1.9	-2.0	--	--	-2.3

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: May 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	-0.9	-1.0	-0.6	0.0	-0.3	-0.3	-0.6	1.0	1.3	0.1	-0.2	0.4	0.4	0.3	0.3	-0.5	1.7	3.0	6.0	0.6	-0.9	0.1	0.8	0.4	0.5	6.0	-1.0
2	0.4	-0.1	1.9	2.9	0.8	1.1	0.5	0.9	0.4	0.2	0.1	1.6	0.0	-0.3	-0.5	-0.8	-1.0	-1.1	-0.6	0.1	0.0	-0.1	0.1	0.5	0.3	2.9	-1.1
3	0.3	-0.4	0.5	-1.2	-0.8	-1.3	0.6	1.9	0.5	-0.5	0.1	-0.9	-0.3	-0.6	-0.6	-1.2	-1.3	-1.2	-1.1	-1.1	-0.9	-1.0	-1.1	-1.2	-0.5	1.9	-1.3
4	-0.8	-1.2	-1.1	-1.2	-1.2	-0.1	0.0	3.1	1.1	-1.0	-1.1	-1.3	-1.2	-1.1	-1.2	-1.2	-1.3	-0.8	-1.3	-1.3	-1.2	-0.8	-0.4	-0.7	-0.7	3.1	-1.3
5	-0.9	-1.3	-1.4	-1.4	-1.5	-1.0	-0.9	1.9	-0.7	-0.8	-0.9	-0.8	-0.9	-0.8	-1.1	-1.1	-1.3	-1.4	-1.4	-1.4	-1.4	-1.5	-1.5	-1.4	-1.0	1.9	-1.5
6	-1.5	-1.5	-1.3	-1.5	-1.4	-1.2	-0.2	-0.5	-0.9	-0.2	-0.6	-0.2	-1.0	-0.6	-1.1	-1.2	-1.0	0.7	0.8	0.4	0.0	-0.7	-1.0	-1.2	-0.7	0.8	-1.5
7	-1.0	-0.9	-1.1	-1.0	-0.8	0.2	1.7	-0.6	-0.8	-0.8	0.8	0.0	0.0	-0.2	-0.2	-0.5	-0.6	-0.8	-0.8	-0.4	-0.6	0.2	0.9	0.0	-0.3	1.7	-1.1
8	0.7	0.2	-0.6	-1.0	-0.9	0.1	4.4	2.9	1.2	1.0	-0.2	--	-3.8	-4.7	-3.9	-4.8	-4.6	-4.8	-4.2	-4.2	-4.1	-4.3	-3.8	-4.0	-1.9	4.4	-4.8
9	-4.6	-4.9	-4.8	-5.1	-5.2	-4.8	-3.7	0.3	-3.1	-4.3	-4.6	-4.4	-5.1	-4.5	-4.8	-4.9	-5.1	-5.2	-5.1	-5.1	-4.7	-4.6	-3.8	-4.9	-4.5	0.3	-5.2
10	-4.9	-4.7	-5.1	-2.1	-4.4	-4.6	-0.9	-1.1	-4.2	-4.8	-5.2	-4.9	-5.4	-5.0	-5.3	-5.4	-5.5	-5.6	-5.8	-5.7	-5.8	-5.8	-5.8	-5.8	-4.7	-0.9	-5.8
11	-5.9	-5.9	-5.8	-5.7	-5.7	-5.4	-5.2	-4.8	-5.0	-5.0	-5.1	-5.2	-5.1	-5.0	-5.3	-5.4	-5.5	-5.5	-5.4	-5.4	-5.4	-5.5	-5.5	-5.2	-5.4	-4.8	-5.9
12	-4.9	-5.3	-5.3	-5.2	-5.0	-4.7	-4.4	-3.9	-4.6	-4.8	-4.5	-4.5	-3.8	-3.9	-4.8	-4.7	-4.8	-5.3	-5.5	-4.6	-4.5	-4.0	-5.1	-4.8	-4.7	-3.8	-5.5
13	-5.3	-5.5	-5.1	-4.8	-5.5	-5.3	-5.5	-2.0	1.3	2.2	1.6	2.5	-3.4	--	-1.5	-2.5	-2.1	-2.9	-2.9	-2.9	-3.1	-3.1	-2.9	-2.8	-2.7	2.5	-5.5
14	-3.0	-2.4	-1.8	-2.4	-2.6	-2.5	-2.5	-2.4	-0.1	-0.4	-1.7	-1.8	-2.4	-1.5	-2.0	-2.2	-2.1	-2.5	-2.5	-2.1	-2.1	-2.3	-1.7	-1.6	-2.0	-0.1	-3.0
15	-2.0	-1.7	-1.7	-1.8	-1.2	-0.6	-0.7	--	--	0.2	-0.9	-0.9	0.5	-1.3	0.0	-0.4	-0.7	-1.8	-1.8	-1.8	-1.2	-0.9	-0.7	-1.3	-1.0	0.5	-2.0
16	-1.6	-2.0	-2.0	-1.5	-1.7	-1.7	0.5	6.8	2.9	2.3	-0.8	-1.4	-1.1	-1.2	-1.2	-0.9	-1.7	-1.8	-2.0	-1.6	-1.6	-1.4	-1.4	-1.4	-0.7	6.8	-2.0
17	-1.3	-1.6	-2.0	-2.1	-2.1	-2.2	-1.9	2.0	-2.1	-1.8	-2.1	-2.1	-2.1	-1.9	-2.0	-2.0	-2.2	-2.1	-2.4	-2.3	-2.1	-0.9	-1.8	-2.4	-1.8	2.0	-2.4
18	-2.6	-2.6	-2.5	-2.5	-2.3	-1.9	2.9	2.1	-2.3	-2.1	-2.4	-2.5	-2.4	-2.4	-2.3	-2.3	-2.3	-2.4	-2.4	-2.2	-2.2	-1.7	-2.2	-2.4	-1.9	2.9	-2.6
19	-2.5	-2.6	-2.6	-2.1	-1.3	-2.0	0.4	-1.8	-2.0	-2.0	-2.0	-1.9	-2.0	-2.2	-2.1	-2.1	-2.4	-2.5	-2.6	-2.7	-2.5	-2.4	-2.5	-2.5	-2.1	0.4	-2.7
20	-2.4	-2.5	-2.6	-2.6	-2.6	-0.9	-0.2	-0.8	-1.2	-1.2	-1.4	-1.1	-0.9	-1.4	-1.0	-1.3	-1.3	-1.6	-1.7	-1.7	-1.6	-1.6	-1.6	-1.5	-1.5	-0.2	-2.6
21	-1.7	-1.9	-1.8	-1.7	-1.7	-1.5	-0.2	0.0	-0.7	-0.4	-1.3	-1.2	-1.1	-0.9	-1.1	-1.2	-1.3	-1.4	-1.5	-1.4	-1.0	-1.0	0.1	-0.2	-1.1	0.1	-1.9
22	-0.4	0.1	1.1	0.5	0.7	0.2	3.1	1.2	0.3	0.0	-1.0	-1.1	-1.0	-1.1	-1.2	-1.2	-1.3	-1.4	-1.5	-1.5	-1.3	-1.6	-1.5	-1.6	-0.5	3.1	-1.6
23	-1.6	-1.4	-1.2	-0.9	-0.1	-0.1	3.8	2.2	--	--	-2.9	-2.9	-3.4	-3.1	-2.7	-3.3	-3.2	-3.2	-3.3	-3.2	-2.9	-2.4	-2.0	-1.7	-1.8	3.8	-3.4
24	-1.8	-1.4	-1.7	-1.5	-1.9	-1.3	-0.9	-1.0	-1.8	-2.3	-2.7	-2.9	-3.0	-3.0	-3.1	-3.1	-3.1	-3.1	-2.9	-2.7	-2.6	-2.6	-1.3	1.4	-2.1	1.4	-3.1
25	0.9	-1.6	-2.3	-0.8	0.1	0.0	-1.9	0.1	-1.3	-1.5	-2.4	-2.8	-2.9	-2.9	-2.9	-2.9	-2.8	-2.9	-3.1	-3.0	-2.8	-2.7	-2.4	-3.0	-2.0	0.9	-3.1
26	-3.1	-3.1	-3.2	-3.1	-3.2	-2.6	0.3	-2.6	-2.9	-2.7	-2.8	-2.6	-2.8	-2.8	-2.7	-2.7	-2.8	-2.8	-2.8	-2.7	-2.7	-2.7	-2.9	-2.5	-2.7	0.3	-3.2
27	-3.2	-2.9	-2.8	-2.8	-3.1	-0.1	12.1	-1.3	0.3	-2.0	-2.4	-1.4	-1.6	-2.1	-2.4	-2.3	-2.6	-2.8	-3.1	-3.1	-3.1	-2.8	-2.3	-2.4	-1.7	12.1	-3.2
28	-2.7	-2.4	-2.7	-2.7	-0.5	0.6	1.8	-0.7	-2.6	-1.2	-2.2	-2.6	-2.9	-2.5	-2.8	-2.9	-3.2	-3.2	-3.4	-3.2	-3.2	-3.1	-2.8	-1.1	-2.2	1.8	-3.4
29	-2.6	-3.3	-3.3	-3.7	-3.6	-2.8	-2.0	-1.4	-2.9	-1.1	-0.9	-2.6	-2.9	-2.6	-2.1	-2.8	-3.1	-2.6	-1.6	-1.6	-1.6	-2.4	-1.2	-0.5	-2.3	-0.5	-3.7
30	-1.3	-1.1	-2.6	-1.1	-0.4	0.9	-1.0	-1.0	-1.3	-1.4	-1.4	-1.6	-2.3	-2.2	--	-1.9	-2.7	-3.2	-3.3	-3.3	-3.2	-2.1	-2.4	-2.7	-1.9	0.9	-3.3
31	-2.9	-3.2	-3.3	-3.4	-3.0	-3.1	-0.1	-0.3	-1.6	-2.1	-2.7	-2.9	-3.0	-3.1	-3.0	-2.9	-2.9	-3.3	-3.3	-3.4	-3.0	-2.6	-2.4	-2.7	-2.7	-0.1	-3.4
Avg	-2.1	-2.3	-2.2	-2.1	-2.0	-1.6	0.0	0.0	-1.1	-1.3	-1.7	-1.8	-2.2	-2.2	-2.2	-2.3	-2.4	-2.4	-2.3	-2.4	-2.4	-2.2	-2.0	-2.0	-1.9	--	--
Max	0.9	0.2	1.9	2.9	0.8	1.1	12.1	6.8	2.9	2.3	1.6	2.5	0.5	0.3	0.3	-0.4	1.7	3.0	6.0	0.6	0.0	0.2	0.9	1.4	--	12.1	--
Min	-5.9	-5.9	-5.8	-5.7	-5.7	-5.4	-5.5	-4.8	-5.0	-5.0	-5.2	-5.2	-5.4	-5.0	-5.3	-5.4	-5.5	-5.6	-5.8	-5.7	-5.8	-5.8	-5.8	-5.8	--	--	-5.9

-- Indicates Invalid Data

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

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Apr 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	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.1
2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.2	0.0	0.2	0.3	0.0
3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.0
4	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.3	2.9	4.2	0.5	0.5	--	1.7	1.3	1.4	1.1	0.8	1.0	1.1	1.0	0.9	0.8	--	1.0	4.2	0.1
5	0.5	0.6	0.4	0.6	0.5	0.6	0.5	0.5	0.4	0.3	0.5	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.6	0.7	0.6	0.5	--	0.5	0.7	0.3
6	0.4	0.5	0.4	0.3	0.5	0.5	0.5	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.6	0.5	0.4	0.4	--	0.4	0.6	0.3
7	0.3	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.3	-0.1	0.2	0.2	0.1	0.2	0.4	0.3	0.4	0.3	0.3	0.3	0.2	0.3	0.3	--	0.3	0.4	-0.1
8	0.3	0.2	0.2	0.3	0.4	0.2	0.2	0.2	0.1	0.2	0.3	0.3	0.3	0.4	0.7	--	--	--	1.2	1.3	1.2	1.2	1.0	1.2	0.5	1.3	0.1
9	--	--	1.2	1.0	1.3	1.2	1.4	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.4	1.4	3.1	1.4	1.5	0.7	0.3	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.5	3.1	0.1
12	0.0	0.2	0.2	0.1	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.0
13	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.2	0.2	0.1	0.2	0.2	0.4	0.3	0.2	0.2	0.3	0.2	0.2	0.4	0.0
14	0.2	0.0	-0.1	0.0	-0.1	0.0	0.1	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1	0.0	0.2	-0.1
15	-0.1	0.0	-0.1	0.0	0.3	0.0	-0.1	-0.1	-0.1	0.0	0.0	-0.1	0.0	-0.1	0.0	0.0	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.3	-0.1
16	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.6	1.6	5.8	2.1	0.3	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.5	5.8	0.0
17	0.2	0.2	0.1	0.2	0.2	-0.7	-0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.7	0.6	0.6	0.5	0.4	0.4	0.4	0.3	0.2	0.1	0.2	0.7	-0.7
18	0.2	0.3	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.2	--	0.1	0.1	0.0	0.0	0.1	0.1	0.3	0.1	0.0	0.0	0.0	0.1	0.1	0.3	0.0
19	0.0	0.1	0.0	0.0	0.0	0.1	0.5	0.6	2.2	1.2	0.5	1.9	1.0	0.3	0.1	0.1	0.1	0.3	0.8	1.2	1.0	0.5	0.4	3.2	0.7	3.2	0.0
20	1.7	1.5	0.9	0.8	0.6	0.4	0.3	0.2	0.3	0.4	0.9	0.9	1.5	1.5	1.4	0.7	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.6	1.7	0.0
21	0.1	0.1	0.0	0.0	-0.3	-0.2	-0.1	-0.1	-0.1	0.0	0.0	0.1	1.2	2.9	1.3	0.5	0.4	0.3	0.4	0.2	0.1	0.0	0.1	0.0	0.3	2.9	-0.3
22	0.1	0.1	0.0	0.1	0.1	0.0	-0.1	0.1	0.6	4.6	3.0	1.9	0.3	0.1	0.1	0.2	0.2	0.2	0.1	0.5	0.4	0.1	0.1	0.1	0.5	4.6	-0.1
23	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.0	-0.3	-0.1	0.1	0.2	-0.3
24	0.0	0.0	0.1	0.1	0.1	0.1	0.8	16.5	1.9	1.2	0.5	1.0	0.7	0.7	--	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	1.2	16.5	0.0
25	0.5	0.5	0.5	0.4	0.5	0.5	0.6	0.7	1.1	1.3	1.4	1.2	0.7	0.7	0.6	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.7	1.4	0.4
26	0.5	0.5	0.6	0.8	0.7	0.7	--	--	0.8	0.7	0.7	0.7	0.8	0.7	0.7	0.6	--	--	0.6	0.5	0.7	0.6	0.5	0.6	0.6	0.8	0.5
27	0.5	0.6	0.5	0.6	0.6	0.6	0.4	0.4	0.5	0.6	0.7	0.6	0.5	0.6	0.6	0.7	0.5	0.6	0.6	0.6	0.5	0.7	0.6	0.5	0.6	0.7	0.4
28	0.6	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.5
29	0.5	0.5	0.5	0.6	0.5	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.4	0.4	0.5	0.4	0.5	0.5	0.6	0.4
30	0.4	0.3	0.4	0.4	0.4	0.6	0.6	0.9	2.4	2.6	0.5	0.4	0.5	0.7	1.1	0.8	0.7	0.8	0.5	0.5	0.5	0.5	0.5	0.4	0.7	2.6	0.3
Avg	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8	0.6	0.8	0.7	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.4	0.4	0.4	0.3	0.3	0.4	0.4	--	--
Max	1.7	1.5	1.2	1.0	1.3	1.2	1.4	16.5	2.9	4.6	5.8	2.1	1.5	2.9	1.4	1.4	1.1	0.8	1.2	1.3	1.2	1.2	1.0	3.2	--	16.5	--
Min	-0.1	0.0	-0.1	0.0	-0.3	-0.7	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.3	-0.1	--	--	-0.7

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: May 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	0.4	0.5	1.5	1.4	0.6	0.5	0.8	1.9	1.1	0.4	0.5	0.8	0.8	0.5	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.7	1.9	0.4
2	0.4	0.6	1.7	1.3	3.5	1.1	0.5	0.4	0.4	0.5	0.5	0.5	0.8	0.8	0.8	0.9	0.9	0.8	0.6	0.5	0.6	0.6	0.6	0.5	0.8	3.5	0.4
3	0.5	0.4	0.5	0.5	0.4	0.5	0.4	3.0	4.0	2.0	1.4	1.2	0.9	1.5	1.6	1.1	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.4	1.0	4.0	0.4
4	0.5	0.5	0.3	0.5	0.5	0.5	0.5	0.5	0.9	0.7	0.6	0.8	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.5	0.5	0.6	0.5	0.5	0.9	0.3
5	0.5	0.5	0.4	0.5	0.5	0.4	0.7	0.9	0.9	1.2	1.1	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.6	0.7	0.6	0.6	0.6	0.6	1.2	0.4
6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	1.0	0.9	0.7	0.8	0.7	0.9	0.6	0.6	0.6	0.6	0.6	0.7	0.5	0.6	0.7	0.7	0.7	1.0	0.5
7	0.6	0.7	0.7	0.7	0.6	0.6	0.5	0.4	0.5	0.5	0.6	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.6	0.5	0.7	0.4
8	0.6	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.5	0.3	0.6	--	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.4	0.5	0.4	0.5	0.6	0.3
9	0.5	0.5	0.6	0.5	0.5	0.5	0.4	0.4	0.5	0.8	0.8	2.6	1.1	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.7	0.6	0.5	0.6	0.7	2.6	0.4
10	0.6	0.6	0.6	0.6	0.4	0.6	0.6	1.2	4.0	3.6	1.6	0.9	0.8	0.8	0.8	0.7	0.8	0.9	1.4	1.0	0.7	0.7	0.7	0.6	1.1	4.0	0.4
11	0.7	0.9	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.7	0.5	0.6	0.6	0.5	0.5	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	0.5
12	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.3	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.7	0.6	0.7	0.3
13	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.8	0.7	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.4
14	0.5	1.4	2.6	0.5	0.5	0.5	0.3	0.4	0.5	0.4	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.6	0.6	2.6	0.3
15	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	--	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.7	0.5	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.5
16	0.6	0.6	0.5	0.5	0.6	0.6	0.5	0.5	2.3	4.7	5.1	4.0	1.3	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	1.2	5.1	0.5
17	0.7	0.6	0.6	0.6	0.7	0.7	0.7	0.5	0.7	0.7	0.8	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.7	0.8	0.8	0.7	0.6	0.8	1.0	0.5
18	0.5	0.5	0.6	0.7	0.6	0.6	0.6	0.7	1.0	1.0	0.9	1.5	0.9	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.9	0.5	0.8	0.9	0.8	1.5	0.5
19	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	0.5	0.6	0.6	0.6	0.7	0.6	0.7	0.7	0.7	0.6	0.6	0.7	0.8	0.7	0.7	0.7	0.9	0.5
20	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.2	0.5	0.7	1.2	0.7	0.6	0.5	0.5	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	0.2
21	0.6	0.5	0.5	0.6	0.6	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.5	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.4
22	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.9	1.1	1.9	2.7	0.8	0.6	0.6	0.7	0.7	0.7	0.8	0.7	0.7	0.5	0.5	0.7	0.8	2.7	0.5
23	0.7	0.7	0.8	0.7	0.9	0.8	0.8	0.8	0.9	0.7	--	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.6	0.9	0.4
24	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.2	0.3	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.2
25	0.5	0.5	0.5	0.4	0.5	0.5	1.8	2.1	1.6	1.2	1.0	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.7	2.1	0.4
26	0.4	0.5	0.5	0.5	0.5	0.6	1.2	0.5	0.5	0.6	0.8	0.8	0.7	0.8	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.6	0.6	1.2	0.4
27	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.3
28	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.5	0.6	0.7	0.5
29	0.5	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.5	2.4	2.2	2.1	0.9	1.4	1.0	0.7	2.4	0.3
30	0.7	0.5	0.4	0.9	2.5	2.4	1.6	1.2	1.8	1.3	0.8	0.9	1.0	1.0	--	--	0.6	0.6	0.5	0.5	0.6	0.5	0.6	0.5	1.0	2.5	0.4
31	0.4	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.5	0.6	0.5	0.4	0.6	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.5	0.7	0.4
Avg	0.6	0.6	0.7	0.6	0.7	0.6	0.6	0.7	1.0	1.0	0.9	0.9	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.7	--	--
Max	0.8	1.4	2.6	1.5	3.5	2.4	1.8	3.0	4.0	4.7	5.1	4.0	1.3	1.5	1.6	1.1	0.9	0.9	2.4	2.2	2.1	0.9	1.4	1.0	--	5.1	--
Min	0.4	0.4	0.3	0.4	0.4	0.4	0.3	0.2	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.2	0.3	0.4	0.5	0.4	0.4	0.4	0.4	--	--	0.2

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Jun 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	0.6	0.4	0.4	0.5	0.6	0.5	0.6	0.4	0.6	0.5	0.5	0.5	0.6	0.5	0.4	0.5	0.6	0.6	0.5	0.5	0.6	0.4
2	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.3	0.6	1.0	0.4	1.0	2.0	1.4	0.8	0.6	0.5	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.6	2.0	0.1
3	0.7	0.6	0.5	0.6	0.5	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.7	0.4
4	0.5	0.5	0.5	0.5	0.6	0.5	0.4	0.4	0.4	0.5	0.5	0.8	0.5	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.8	0.4
5	0.5	0.6	0.6	0.5	0.5	0.5	0.4	0.9	4.3	2.5	1.1	0.8	0.9	0.8	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	4.3	0.4
6	0.7	0.6	0.5	0.6	0.5	0.6	0.5	0.6	0.6	--	--	--	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.7	0.3
7	0.5	0.5	0.5	0.6	0.7	0.6	0.5	0.5	0.7	0.7	1.2	1.0	0.6	0.5	0.4	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	1.2	0.3
8	0.5	0.5	0.3	0.3	0.3	0.4	0.2	0.3	0.3	0.6	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.6	0.5	0.3	0.5	0.7	0.2
9	0.4	0.4	0.5	0.3	0.2	0.3	0.2	0.2	0.2	0.6	1.7	1.1	0.5	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.5	1.7	0.2
10	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.3	0.4	0.7	1.1	0.9	0.5	1.1	0.3
11	0.6	0.5	0.4	0.3	0.4	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	--	--	0.5	0.6	0.7	0.1	0.4	0.3	0.4	0.4	0.7	0.1
12	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.6	0.2
13	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.7	0.5	0.5	0.4	0.4	0.7	0.2
14	0.5	0.5	0.6	0.6	0.5	0.3	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2	0.1	0.0	0.0	0.2	0.1	0.2	0.2	0.2	0.2	0.2	--	--	--
20	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	--	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.3	0.5	0.3	0.5	0.2
21	0.5	0.5	0.7	0.6	0.6	0.6	0.5	0.4	0.5	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.5	0.6	0.5	0.5	0.6	0.7	0.4
22	0.6	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.3
23	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.6	0.3
24	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4
25	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.6	0.4
26	0.5	0.4	0.5	0.4	0.5	0.5	0.4	0.4	0.5	0.5	0.5	--	0.5	0.6	0.7	0.6	0.5	0.6	0.7	0.7	0.8	0.8	0.8	0.4	0.6	0.8	0.4
27	0.5	0.6	0.5	0.6	0.6	0.5	0.5	0.4	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.7	0.6	0.6	0.7	0.7	0.6	0.7	0.8	0.7	0.6	0.8	0.4
28	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.7	0.7	0.2	0.6	0.5	0.6	0.7	0.2
29	0.6	0.7	0.7	0.8	0.7	0.7	0.6	0.5	0.7	0.3	0.7	0.9	0.9	0.9	0.8	0.7	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.7	0.7	0.9	0.3
30	0.6	0.9	0.8	0.8	0.7	0.6	0.6	0.6	0.8	1.0	0.9	0.8	0.9	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	1.0	0.6
Avg	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	--	--
Max	0.7	0.9	0.8	0.8	0.7	0.7	0.6	0.9	4.3	2.5	1.7	1.1	2.0	1.4	0.8	0.7	0.8	0.7	0.7	0.7	0.8	0.8	1.1	0.9	--	4.3	--
Min	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.1	0.0	0.0	0.1	0.1	0.2	0.1	0.2	0.2	0.2	--	--	0.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Apr 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	0.046	0.046	0.046	0.046	0.047	0.048	0.049	0.050	0.051	0.052	0.053	0.054	0.054	0.054	0.053	0.052	0.052	0.050	0.050	0.049	0.049	0.048	0.048	0.049	0.050	0.054	0.046
2	0.049	0.049	0.050	0.050	0.050	0.050	0.050	0.051	0.051	0.051	0.051	0.050	0.050	0.050	0.050	0.051	0.050	0.050	0.050	0.049	0.048	0.047	0.044	0.042	0.049	0.051	0.042
3	0.039	0.038	0.040	0.041	0.042	0.043	0.045	0.047	0.050	0.051	0.052	0.053	0.053	0.053	0.052	0.051	0.051	0.049	0.048	0.047	0.047	0.046	0.046	0.045	0.047	0.053	0.038
4	0.044	0.044	0.045	0.045	0.045	0.045	0.046	0.048	0.050	0.052	0.054	0.056	0.058	0.058	0.058	0.058	0.057	0.056	0.055	0.052	0.051	0.050	0.048	0.047	0.051	0.058	0.044
5	0.046	0.045	0.045	0.046	0.047	0.047	0.048	0.050	0.052	0.053	0.054	0.055	0.056	0.057	0.057	0.057	0.058	0.057	0.057	0.056	0.054	0.053	0.051	0.050	0.052	0.058	0.045
6	0.048	0.048	0.047	0.047	0.048	0.048	0.049	0.050	0.052	0.053	0.054	0.055	0.055	0.054	0.054	0.053	0.052	0.050	0.049	0.047	0.045	0.043	0.042	0.041	0.049	0.055	0.041
7	0.041	0.042	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.053	0.054	0.055	0.055	0.054	0.054	0.052	0.050	0.048	0.047	0.045	0.048	0.055	0.041
8	0.044	0.043	0.042	0.041	0.041	0.042	0.042	0.043	0.044	0.046	0.047	0.049	0.051	0.052	0.052	0.052	0.053	0.053	0.051	0.051	0.050	0.049	0.048	0.047	0.047	0.053	0.041
9	0.045	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.051	0.051	--	--	--
11	0.049	0.048	0.046	0.046	0.045	0.045	0.045	0.045	0.046	0.048	0.048	0.049	0.049	0.049	0.049	0.049	0.048	0.047	0.047	0.046	0.047	0.047	0.047	0.046	0.047	0.049	0.045
12	0.046	0.046	0.046	0.045	0.045	0.045	0.045	0.046	0.047	0.048	0.049	0.050	0.051	0.052	0.052	0.052	0.051	0.050	0.049	0.048	0.048	0.047	0.046	0.045	0.048	0.052	0.045
13	0.043	0.044	0.044	0.044	0.045	0.046	0.048	0.050	0.052	0.053	0.054	0.055	0.056	0.056	0.055	0.055	0.054	0.053	0.052	0.052	0.051	0.051	0.051	0.051	0.051	0.056	0.043
14	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.051	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.051	0.051	0.050	0.050	0.050	0.049	0.048	0.050	0.052	0.048
15	0.047	0.046	0.046	0.046	0.046	0.047	0.048	0.050	0.051	0.053	0.054	0.056	0.057	0.058	0.058	0.058	0.057	0.057	0.057	0.057	0.056	0.056	0.055	0.055	0.053	0.058	0.046
16	0.053	0.053	0.052	0.053	0.054	0.054	0.056	0.057	0.060	0.062	0.063	0.063	0.064	0.064	0.065	0.066	0.066	0.066	0.065	0.064	0.062	0.061	0.059	0.056	0.060	0.066	0.052
17	0.053	0.051	0.051	0.051	0.052	0.052	0.054	0.056	0.059	0.060	0.060	0.061	0.062	0.061	0.061	0.060	0.060	0.059	0.058	0.057	0.055	0.053	0.051	0.048	0.056	0.062	0.048
18	0.045	0.044	0.043	0.042	0.041	0.042	0.045	0.049	0.052	0.055	0.057	0.057	0.057	0.058	0.057	0.056	0.055	0.054	0.053	0.051	0.049	0.048	0.046	0.046	0.050	0.058	0.041
19	0.045	0.044	0.044	0.045	0.046	0.048	0.049	0.050	0.051	0.052	0.053	0.054	0.054	0.053	0.053	0.052	0.051	0.050	0.048	0.046	0.044	0.043	0.042	0.041	0.048	0.054	0.041
20	0.040	0.041	0.042	0.044	0.046	0.048	0.050	0.052	0.053	0.054	0.056	0.057	0.058	0.059	0.060	0.060	0.060	0.060	0.059	0.058	0.057	0.056	0.055	0.054	0.053	0.060	0.040
21	0.053	0.052	0.052	0.053	0.053	0.054	0.054	0.055	0.056	0.057	0.058	0.058	0.059	0.059	0.060	0.060	0.059	0.059	0.058	0.057	0.056	0.054	0.052	0.050	0.056	0.060	0.050
22	0.049	0.048	0.048	0.048	0.048	0.049	0.050	0.052	0.053	0.054	0.054	0.054	0.054	0.053	0.052	0.051	0.050	0.049	0.049	0.048	0.047	0.047	0.047	0.047	0.050	0.054	0.047
23	0.047	0.047	0.047	0.047	0.048	0.050	0.052	0.054	0.056	0.059	0.060	0.062	0.062	0.062	0.061	0.059	0.058	0.057	0.055	0.053	0.052	0.051	0.050	0.050	0.054	0.062	0.047
24	0.050	0.049	0.049	0.050	0.051	0.052	0.053	0.054	0.056	0.058	0.060	0.061	0.062	0.062	0.062	0.060	0.059	0.058	0.057	0.056	0.054	0.054	0.054	0.053	0.056	0.062	0.049
25	0.052	0.052	0.051	0.051	0.051	0.051	0.052	0.052	0.053	0.053	0.052	0.052	0.051	0.051	0.050	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.051	0.053	0.049
26	0.049	0.049	0.049	0.049	0.047	0.046	0.046	0.047	0.048	0.048	0.047	0.049	0.051	0.052	0.052	0.052	0.051	0.051	0.051	0.050	0.050	0.050	0.050	0.049	0.049	0.052	0.046
27	0.049	0.050	0.050	0.051	0.052	0.053	0.054	0.056	0.057	0.058	0.059	0.060	0.061	0.061	0.061	0.060	0.060	0.059	0.058	0.058	0.057	0.056	0.055	0.054	0.056	0.061	0.049
28	0.054	0.054	0.054	0.054	0.054	0.055	0.056	0.058	0.061	0.063	0.065	0.066	0.068	0.069	0.069	0.067	0.065	0.062	0.060	0.058	0.056	0.055	0.054	0.054	0.059	0.069	0.054
29	0.054	0.054	0.054	0.055	0.056	0.057	0.059	0.060	0.061	0.062	0.062	0.062	0.062	0.061	0.060	0.060	0.059	0.059	0.058	0.058	0.057	0.056	0.055	0.053	0.058	0.062	0.053
30	0.052	0.052	0.051	0.052	0.054	0.055	0.057	0.058	0.059	0.061	0.061	0.061	0.061	0.060	0.059	0.058	0.056	0.055	0.054	0.052	0.050	0.050	0.049	0.049	0.055	0.061	0.049
Avg	0.048	0.047	0.047	0.048	0.048	0.049	0.050	0.051	0.053	0.054	0.055	0.056	0.056	0.056	0.056	0.056	0.055	0.054	0.054	0.053	0.051	0.051	0.050	0.049	0.052	--	--
Max	0.054	0.054	0.054	0.055	0.056	0.057	0.059	0.060	0.061	0.063	0.065	0.066	0.068	0.069	0.069	0.067	0.066	0.066	0.065	0.064	0.062	0.061	0.059	0.056	--	0.069	--
Min	0.039	0.038	0.040	0.041	0.041	0.042	0.042	0.043	0.044	0.046	0.047	0.049	0.049	0.049	0.049	0.049	0.048	0.047	0.047	0.046	0.044	0.043	0.042	0.041	--	--	0.038

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: May 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	0.049	0.049	0.049	0.050	0.050	0.051	0.051	0.052	0.053	0.054	0.054	0.054	0.054	0.054	0.053	0.052	0.051	0.050	0.049	0.049	0.048	0.047	0.046	0.046	0.051	0.054	0.046
2	0.045	0.046	0.046	0.046	0.046	0.047	0.048	0.048	0.049	0.049	0.050	0.052	0.054	0.056	0.058	0.059	0.061	0.061	0.061	0.059	0.057	0.055	0.054	0.051	0.052	0.061	0.045
3	0.050	0.049	0.049	0.050	0.051	0.052	0.052	0.054	0.055	0.056	0.056	0.057	0.057	0.057	0.056	0.056	0.056	0.056	0.056	0.055	0.054	0.054	0.053	0.052	0.054	0.057	0.049
4	0.050	0.049	0.049	0.049	0.050	0.051	0.052	0.054	0.057	0.058	0.059	0.060	0.060	0.060	0.060	0.059	0.058	0.057	0.057	0.056	0.055	0.055	0.055	0.055	0.055	0.060	0.049
5	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.055	0.056	0.057	0.058	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.058	0.058	0.058	0.057	0.057	0.056	0.057	0.059	0.054
6	0.055	0.055	0.055	0.055	0.054	0.054	0.053	0.053	0.052	0.051	0.051	0.050	0.049	0.048	0.048	0.049	0.049	0.050	0.051	0.052	0.053	0.054	0.054	0.053	0.052	0.055	0.048
7	0.053	0.053	0.053	0.052	0.052	0.053	0.054	0.055	0.056	0.056	0.056	0.057	0.057	0.056	0.054	0.052	0.051	0.049	0.047	0.046	0.046	0.046	0.046	0.045	0.052	0.057	0.045
8	0.045	0.046	0.048	0.048	0.048	0.047	0.049	0.052	0.053	0.055	0.058	0.060	0.064	0.064	0.065	0.066	0.066	0.065	0.063	0.061	0.060	0.058	0.057	0.056	0.056	0.066	0.045
9	0.054	0.054	0.054	0.055	0.055	0.056	0.057	0.058	0.060	0.062	0.063	0.063	0.063	0.064	0.063	0.063	0.062	0.061	0.060	0.059	0.057	0.055	0.054	0.052	0.058	0.064	0.052
10	0.051	0.051	0.051	0.051	0.052	0.053	0.053	0.055	0.055	0.055	0.054	0.054	0.054	0.053	0.053	0.052	0.051	0.051	0.050	0.049	0.048	0.048	0.048	0.048	0.052	0.055	0.048
11	0.049	0.050	0.051	0.052	0.054	0.056	0.058	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.058	0.057	0.056	0.054	0.052	0.050	0.049	0.047	0.046	0.045	0.054	0.059	0.045
12	0.045	0.045	0.045	0.046	0.047	0.048	0.049	0.050	0.051	0.052	0.053	0.055	0.056	0.057	0.058	0.058	0.058	0.057	0.056	0.054	0.052	0.050	0.049	0.048	0.052	0.058	0.045
13	0.047	0.046	0.046	0.046	0.046	0.047	0.047	0.049	0.051	0.053	0.055	0.057	0.059	0.060	0.061	0.061	0.060	0.060	0.059	0.057	0.055	0.053	0.052	0.050	0.053	0.061	0.046
14	0.049	0.048	0.047	0.047	0.048	0.049	0.050	0.050	0.051	0.053	0.054	0.054	0.055	0.054	0.054	0.054	0.053	0.052	0.052	0.051	0.051	0.051	0.051	0.052	0.051	0.055	0.047
15	0.051	0.051	0.052	0.052	0.053	0.053	0.054	0.055	0.057	0.058	0.058	0.059	0.060	0.061	0.062	0.062	0.062	0.062	0.062	0.061	0.060	0.059	0.057	0.056	0.057	0.062	0.051
16	0.054	0.053	0.054	0.054	0.055	0.055	0.056	0.057	0.060	0.061	0.062	0.063	0.063	0.064	0.064	0.063	0.063	0.062	0.061	0.060	0.059	0.059	0.058	0.058	0.059	0.064	0.053
17	0.056	0.057	0.057	0.057	0.059	0.060	0.062	0.065	0.068	0.070	0.071	0.071	0.071	0.070	0.068	0.066	0.064	0.061	0.059	0.058	0.057	0.056	0.055	0.054	0.062	0.071	0.054
18	0.053	0.054	0.054	0.055	0.055	0.056	0.057	0.059	0.061	0.061	0.062	0.062	0.062	0.062	0.061	0.060	0.060	0.059	0.059	0.058	0.058	0.057	0.057	0.055	0.058	0.062	0.053
19	0.055	0.054	0.054	0.054	0.054	0.055	0.055	0.056	0.057	0.057	0.058	0.058	0.059	0.059	0.058	0.058	0.058	0.057	0.056	0.055	0.054	0.054	0.053	0.052	0.056	0.059	0.052
20	0.052	0.052	0.053	0.053	0.053	0.053	0.053	0.054	0.053	0.053	0.053	0.052	0.051	0.051	0.050	0.050	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.051	0.054	0.049
21	0.049	0.049	0.049	0.048	0.048	0.049	0.049	0.050	0.051	0.051	0.052	0.053	0.054	0.054	0.054	0.054	0.054	0.053	0.053	0.051	0.050	0.048	0.047	0.046	0.051	0.054	0.046
22	0.046	0.046	0.046	0.047	0.048	0.049	0.050	0.052	0.052	0.052	0.053	0.054	0.054	0.055	0.056	0.056	0.057	0.057	0.057	0.056	0.055	0.054	0.052	0.050	0.052	0.057	0.046
23	0.048	0.047	0.047	0.046	0.046	0.046	0.048	0.051	0.053	0.054	0.055	0.055	0.055	0.056	0.057	0.057	0.057	0.056	0.056	0.055	0.054	0.053	0.051	0.050	0.052	0.057	0.046
24	0.050	0.050	0.051	0.052	0.053	0.054	0.055	0.056	0.057	0.058	0.058	0.059	0.060	0.061	0.062	0.061	0.060	0.058	0.056	0.054	0.052	0.049	0.048	0.048	0.055	0.062	0.048
25	0.048	0.049	0.050	0.051	0.052	0.053	0.054	0.055	0.056	0.057	0.058	0.059	0.060	0.061	0.062	0.062	0.062	0.062	0.062	0.061	0.060	0.060	0.058	0.057	0.057	0.062	0.048
26	0.056	0.055	0.054	0.055	0.055	0.056	0.057	0.059	0.061	0.062	0.063	0.064	0.064	0.064	0.063	0.063	0.061	0.060	0.059	0.058	0.056	0.056	0.054	0.051	0.058	0.064	0.051
27	0.050	0.050	0.050	0.050	0.051	0.051	0.052	0.056	0.058	0.060	0.061	0.062	0.063	0.063	0.063	0.063	0.061	0.059	0.057	0.055	0.054	0.052	0.050	0.047	0.056	0.063	0.047
28	0.046	0.047	0.047	0.048	0.049	0.051	0.053	0.056	0.058	0.059	0.059	0.060	0.060	0.060	0.060	0.060	0.060	0.058	0.056	0.054	0.053	0.052	0.051	0.049	0.054	0.060	0.046
29	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.049	0.049	0.050	0.051	0.052	0.052	0.051	0.051	0.050	0.049	0.047	0.046	0.045	0.044	0.044	0.043	0.042	0.048	0.052	0.042
30	0.042	0.043	0.044	0.045	0.047	0.049	0.051	0.052	0.053	0.053	0.053	0.054	0.054	0.055	0.055	0.054	0.054	0.055	0.055	0.054	0.052	0.051	0.050	0.048	0.051	0.055	0.042
31	0.047	0.046	0.046	0.046	0.046	0.047	0.048	0.050	0.051	0.052	0.052	0.052	0.052	0.052	0.050	0.049	0.047	0.045	0.044	0.043	0.042	0.041	0.040	0.039	0.047	0.052	0.039
Avg	0.050	0.050	0.050	0.050	0.051	0.052	0.053	0.054	0.055	0.056	0.057	0.057	0.058	0.058	0.058	0.058	0.057	0.056	0.055	0.054	0.053	0.052	0.051	0.050	0.054	--	--
Max	0.056	0.057	0.057	0.057	0.059	0.060	0.062	0.065	0.068	0.070	0.071	0.071	0.071	0.070	0.068	0.066	0.066	0.065	0.063	0.061	0.060	0.060	0.058	0.058	--	0.071	--
Min	0.042	0.043	0.044	0.045	0.046	0.046	0.047	0.048	0.049	0.049	0.050	0.050	0.049	0.048	0.048	0.049	0.047	0.045	0.044	0.043	0.042	0.041	0.040	0.039	--	--	0.039

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Jun 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	0.038	0.038	0.038	0.038	0.039	0.040	0.042	0.043	0.044	0.045	0.046	0.046	0.046	0.045	0.045	0.044	0.043	0.042	0.041	0.041	0.040	0.040	0.039	0.042	0.046	0.038
2	0.039	0.039	0.040	0.040	0.041	0.042	0.044	0.045	0.046	0.047	0.046	0.046	0.046	0.045	0.044	0.044	0.044	0.045	0.044	0.043	0.043	0.041	0.039	0.037	0.043	0.047	0.037
3	0.036	0.035	0.035	0.035	0.036	0.038	0.041	0.043	0.045	0.045	0.046	0.046	0.046	0.046	0.046	0.046	0.045	0.045	0.046	0.046	0.047	0.047	0.047	0.048	0.043	0.048	0.035
4	0.048	0.049	0.051	0.052	0.053	0.053	0.053	0.054	0.055	0.055	0.056	0.056	0.057	0.057	0.056	0.055	0.053	0.051	0.049	0.047	0.045	0.044	0.045	0.046	0.051	0.057	0.044
5	0.046	0.047	0.049	0.051	0.053	0.054	0.055	0.057	0.059	0.061	0.062	0.063	0.064	0.065	0.065	0.065	0.066	0.066	0.067	0.066	0.066	0.066	0.065	0.065	0.060	0.067	0.046
6	0.063	0.063	0.064	0.064	0.063	0.065	0.068	0.071	0.074	0.076	0.076	0.077	0.077	0.077	0.076	0.076	0.074	0.073	0.072	0.071	0.070	0.068	0.067	0.066	0.071	0.077	0.063
7	0.064	0.064	0.064	0.064	0.064	0.063	0.064	0.065	0.066	0.066	0.066	0.065	0.065	0.066	0.066	0.067	0.067	0.066	0.065	0.064	0.063	0.062	0.060	0.057	0.064	0.067	0.057
8	0.056	0.055	0.055	0.054	0.053	0.052	0.051	0.051	0.051	0.051	0.051	0.052	0.054	0.055	0.057	0.060	0.061	0.062	0.062	0.061	0.060	0.058	0.057	0.054	0.055	0.062	0.051
9	0.054	0.053	0.053	0.054	0.056	0.057	0.058	0.060	0.061	0.064	0.066	0.068	0.070	0.071	0.071	0.072	0.072	0.071	0.070	0.069	0.067	0.064	0.061	0.058	0.063	0.072	0.053
10	0.055	0.051	0.048	0.045	0.044	0.043	0.044	0.046	0.048	0.050	0.051	0.052	0.053	0.054	0.053	0.051	0.048	0.046	0.044	0.042	0.039	0.037	0.035	0.035	0.046	0.055	0.035
11	0.035	0.036	0.036	0.037	0.037	0.038	0.038	0.039	0.040	0.040	0.042	0.044	0.046	0.047	0.048	0.049	0.050	0.049	0.048	0.047	0.045	0.044	0.042	0.040	0.042	0.050	0.035
12	0.038	0.038	0.038	0.040	0.042	0.043	0.045	0.048	0.050	0.051	0.051	0.050	0.048	0.047	0.046	0.045	0.043	0.040	0.038	0.036	0.034	0.033	0.032	0.030	0.042	0.051	0.030
13	0.030	0.030	0.031	0.032	0.033	0.034	0.035	0.036	0.037	0.038	0.039	0.039	0.040	0.039	0.039	0.038	0.038	0.038	0.038	0.039	0.040	0.041	0.041	0.041	0.037	0.041	0.030
14	0.042	0.042	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	0.035	0.036	0.036	0.036	0.037	0.038	0.038	0.038	0.038	0.037	0.037	0.037	0.037	--	--	--
20	0.037	0.037	0.038	0.039	0.040	0.041	0.041	0.041	0.042	0.044	0.046	0.048	0.049	0.050	0.050	0.049	0.048	0.046	0.044	0.041	0.039	0.037	0.035	0.033	0.042	0.050	0.033
21	0.032	0.031	0.031	0.032	0.032	0.033	0.034	0.036	0.038	0.039	0.040	0.040	0.041	0.041	0.040	0.038	0.036	0.034	0.033	0.031	0.028	0.026	0.024	0.023	0.034	0.041	0.023
22	0.024	0.025	0.026	0.027	0.028	0.030	0.033	0.035	0.036	0.037	0.038	0.038	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.038	0.038	0.038	0.037	0.037	0.035	0.039	0.024
23	0.037	0.039	0.039	0.040	0.041	0.042	0.042	0.043	0.044	0.044	0.043	0.043	0.042	0.042	0.042	0.041	0.040	0.040	0.040	0.040	0.039	0.038	0.038	0.037	0.041	0.044	0.037
24	0.037	0.038	0.038	0.039	0.040	0.041	0.043	0.045	0.045	0.046	0.046	0.046	0.046	0.046	0.045	0.044	0.043	0.042	0.042	0.042	0.041	0.041	0.041	0.041	0.042	0.046	0.037
25	0.040	0.040	0.040	0.040	0.040	0.041	0.041	0.043	0.044	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.044	0.044	0.043	0.043	0.043	0.043	0.042	0.043	0.045	0.040
26	0.042	0.041	0.041	0.041	0.041	0.040	0.041	0.041	0.042	0.043	0.044	0.045	0.045	0.045	0.046	0.046	0.046	0.045	0.045	0.044	0.043	0.043	0.042	0.042	0.043	0.046	0.040
27	0.041	0.040	0.039	0.038	0.038	0.038	0.038	0.039	0.039	0.041	0.042	0.044	0.044	0.046	0.047	0.048	0.048	0.049	0.049	0.048	0.047	0.045	0.043	0.041	0.043	0.049	0.038
28	0.040	0.039	0.039	0.038	0.038	0.039	0.040	0.042	0.042	0.043	0.044	0.046	0.047	0.047	0.047	0.046	0.045	0.045	0.044	0.042	0.041	0.039	0.037	0.036	0.042	0.047	0.036
29	0.034	0.032	0.032	0.032	0.032	0.033	0.033	0.035	0.035	0.036	0.037	0.038	0.038	0.038	0.039	0.039	0.040	0.040	0.039	0.038	0.037	0.036	0.035	0.033	0.036	0.040	0.032
30	0.031	0.030	0.030	0.030	0.030	0.031	0.031	0.033	0.033	0.034	0.034	0.035	0.036	0.038	0.040	0.041	0.042	0.042	0.043	0.043	0.042	0.041	0.039	0.036	0.036	0.043	0.030
Avg	0.042	0.041	0.041	0.042	0.042	0.043	0.044	0.045	0.047	0.047	0.048	0.048	0.049	0.049	0.049	0.049	0.049	0.048	0.047	0.046	0.045	0.044	0.043	0.042	0.046	--	--
Max	0.064	0.064	0.064	0.064	0.064	0.065	0.068	0.071	0.074	0.076	0.076	0.077	0.077	0.077	0.076	0.076	0.074	0.073	0.072	0.071	0.070	0.068	0.067	0.066	--	0.077	--
Min	0.024	0.025	0.026	0.027	0.028	0.030	0.031	0.033	0.033	0.034	0.034	0.035	0.036	0.036	0.036	0.037	0.036	0.034	0.033	0.031	0.028	0.026	0.024	0.023	--	--	0.023

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Apr 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	0.045	--	0.048	0.047	0.047	0.046	0.046	0.045	0.045	0.046	0.049	0.052	0.054	0.055	0.053	0.054	0.055	0.055	0.054	0.053	0.051	0.048	0.047	0.049	0.050	0.055	0.045
2	0.046	--	0.050	0.049	0.049	0.049	0.049	0.048	0.051	0.051	0.052	0.051	0.050	0.051	0.051	0.052	0.050	0.049	0.050	0.050	0.051	0.052	0.052	0.051	0.050	0.052	0.046
3	0.047	--	0.044	0.041	0.042	0.034	0.033	0.034	0.043	0.049	0.050	0.051	0.051	0.051	0.051	0.053	0.055	0.056	0.054	0.052	0.049	0.046	0.046	0.047	0.047	0.056	0.033
4	0.045	--	0.046	0.046	0.046	0.043	0.042	0.043	0.044	0.047	0.049	0.044	--	0.056	0.054	0.057	0.059	0.060	0.060	0.059	0.058	0.058	0.055	0.049	0.051	0.060	0.042
5	0.050	0.049	0.042	0.046	0.049	0.047	0.044	0.040	0.045	0.048	0.051	0.052	0.053	0.054	0.054	0.055	0.056	0.057	0.059	0.059	0.058	0.057	0.057	0.056	0.052	0.059	0.040
6	0.055	0.053	0.050	0.049	0.047	0.046	0.043	0.046	0.048	0.050	0.051	0.051	0.052	0.052	0.054	0.056	0.058	0.058	0.055	0.052	0.051	0.049	0.049	0.044	0.051	0.058	0.043
7	0.042	0.047	0.039	0.038	0.038	0.040	0.042	0.044	0.046	0.047	0.046	0.048	0.048	0.048	0.049	0.049	0.050	0.055	0.057	0.057	0.059	0.056	0.054	0.049	0.048	0.059	0.038
8	0.048	0.049	0.044	0.044	0.044	0.042	0.041	0.040	0.040	0.040	0.041	0.043	0.047	0.048	0.047	0.047	0.051	0.054	0.057	0.056	0.054	0.051	0.048	0.051	0.047	0.057	0.040
9	0.050	0.045	--	--	0.048	0.046	0.043	0.039	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	0.056	0.055	0.051	0.050	0.048	0.048	0.046	0.039	0.043	0.045	0.045	0.047	0.048	0.047	0.048	0.050	0.052	0.052	0.051	0.045	0.047	0.046	0.046	0.046	0.048	0.056	0.039
12	0.046	0.048	0.046	0.046	0.047	0.046	0.044	0.047	0.045	0.044	0.043	0.045	0.047	0.049	0.051	0.051	0.053	0.054	0.053	0.052	0.051	0.050	0.049	0.048	0.048	0.054	0.043
13	0.046	0.047	0.045	0.045	0.046	0.041	0.039	0.039	0.048	0.048	0.050	0.053	0.054	0.054	0.054	0.056	0.057	0.056	0.057	0.057	0.054	0.052	0.050	0.049	0.050	0.057	0.039
14	0.049	0.053	0.052	0.052	0.051	0.050	0.049	0.048	0.049	0.050	0.051	0.052	0.049	0.049	0.051	0.053	0.054	0.053	0.052	0.051	0.049	0.051	0.051	0.051	0.051	0.054	0.048
15	0.051	0.050	0.048	0.048	0.047	0.045	0.045	0.044	0.045	0.045	0.046	0.052	0.054	0.055	0.056	0.057	0.056	0.057	0.060	0.062	0.061	0.054	0.053	0.053	0.052	0.062	0.044
16	0.057	0.060	0.058	0.055	0.058	0.047	0.051	0.042	0.051	0.058	0.062	0.062	0.060	0.059	0.062	0.064	0.065	0.067	0.068	0.067	0.062	0.067	0.067	0.067	0.060	0.068	0.042
17	0.064	0.061	0.055	0.054	0.054	0.050	0.048	0.040	0.050	0.056	0.058	0.058	0.061	0.062	0.062	0.062	0.060	0.061	0.062	0.064	0.059	0.058	0.057	0.060	0.057	0.064	0.040
18	0.050	0.057	0.053	0.047	0.044	0.040	0.038	0.036	0.039	0.047	--	--	0.051	0.061	0.058	0.057	0.058	0.058	0.058	0.058	0.055	0.054	0.051	0.051	0.051	0.061	0.036
19	0.048	0.049	0.043	0.044	0.042	0.044	0.046	0.044	0.043	0.048	0.051	0.051	0.054	0.053	0.054	0.055	0.054	0.054	0.054	0.052	0.052	0.048	0.049	0.048	0.049	0.055	0.042
20	0.044	0.041	0.037	0.036	0.040	0.042	0.039	0.044	0.048	0.050	0.053	0.055	0.054	0.054	0.055	0.056	0.058	0.061	0.063	0.062	0.061	0.060	0.059	0.059	0.051	0.063	0.036
21	0.055	0.053	0.055	0.055	0.053	0.053	0.048	0.051	0.052	0.054	0.057	0.058	0.057	0.057	0.058	0.058	0.059	0.060	0.061	0.061	0.062	0.059	0.057	0.056	0.056	0.062	0.048
22	0.055	0.053	0.052	0.052	0.051	0.042	0.043	0.043	0.048	0.051	0.053	0.053	0.055	0.056	0.054	0.054	0.054	0.053	0.053	0.053	0.049	0.047	0.046	0.046	0.051	0.056	0.042
23	0.048	0.048	0.047	0.047	0.047	0.046	0.046	0.046	0.046	0.049	0.052	0.056	0.060	0.060	0.064	0.065	0.063	0.064	0.062	0.059	0.057	0.057	0.050	0.050	0.054	0.065	0.046
24	0.055	0.051	0.050	0.049	0.048	0.049	0.047	0.048	0.051	0.054	0.057	0.058	0.057	0.056	--	0.062	0.065	0.065	0.063	0.064	0.059	0.054	0.052	0.052	0.055	0.065	0.047
25	0.055	0.056	0.056	0.053	0.054	0.052	0.049	0.042	0.052	0.053	0.055	0.055	0.054	0.055	0.052	0.050	0.050	0.049	0.051	0.051	0.049	0.046	0.048	0.049	0.051	0.056	0.042
26	0.049	0.051	0.050	0.050	0.048	0.048	--	--	0.050	0.049	0.047	0.042	0.043	0.047	0.052	0.054	--	--	0.055	0.053	0.051	0.050	0.049	0.049	0.049	0.055	0.042
27	0.049	0.050	0.052	0.051	0.050	0.051	0.044	0.049	0.053	0.054	0.056	0.057	0.058	0.059	0.060	0.061	0.061	0.062	0.063	0.063	0.061	0.058	0.053	0.055	0.055	0.063	0.044
28	0.056	0.058	0.058	0.057	0.054	0.052	0.044	0.050	0.056	0.058	0.059	0.059	0.059	0.061	0.065	0.071	0.072	0.072	0.071	0.069	0.067	0.062	0.054	0.051	0.060	0.072	0.044
29	0.053	0.055	0.055	0.054	0.053	0.054	0.054	0.054	0.056	0.056	0.058	0.062	0.064	0.063	0.064	0.064	0.060	0.059	0.061	0.059	0.057	0.059	0.059	0.058	0.058	0.064	0.053
30	0.057	0.057	0.054	0.052	0.050	0.050	0.050	0.050	0.050	0.055	0.061	0.064	0.063	0.061	0.061	0.060	0.060	0.060	0.061	0.062	0.057	0.052	0.050	0.050	0.056	0.064	0.050
Avg	0.051	0.052	0.049	0.048	0.048	0.046	0.045	0.044	0.048	0.050	0.052	0.053	0.054	0.055	0.055	0.057	0.057	0.058	0.058	0.057	0.055	0.054	0.052	0.051	0.052	--	--
Max	0.064	0.061	0.058	0.057	0.058	0.054	0.054	0.054	0.056	0.058	0.062	0.064	0.064	0.063	0.065	0.071	0.072	0.072	0.071	0.069	0.067	0.067	0.067	0.067	--	0.072	--
Min	0.042	0.041	0.037	0.036	0.038	0.034	0.033	0.034	0.039	0.040	0.041	0.042	0.043	0.047	0.047	0.047	0.050	0.049	0.050	0.045	0.047	0.046	0.046	0.044	--	--	0.033

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: May 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	0.049	0.049	0.048	0.049	0.050	0.051	0.050	0.048	0.049	0.051	0.052	0.055	0.053	0.055	0.054	0.057	0.055	0.054	0.051	0.052	0.054	0.051	0.046	0.046	0.051	0.057	0.046
2	0.048	0.047	0.046	0.044	0.045	0.044	0.045	0.046	0.049	0.049	0.048	0.047	0.050	0.050	0.047	0.049	0.052	0.055	0.063	0.065	0.065	0.064	0.062	0.058	0.052	0.065	0.044
3	0.056	0.054	0.050	0.050	0.049	0.050	0.044	0.045	0.053	0.055	0.054	0.056	0.058	0.055	0.055	0.056	0.056	0.057	0.059	0.059	0.055	0.053	0.054	0.054	0.054	0.059	0.044
4	0.055	0.058	0.054	0.053	0.051	0.047	0.045	0.042	0.048	0.055	0.057	0.056	0.058	0.059	0.059	0.061	0.061	0.061	0.062	0.061	0.059	0.057	0.054	0.053	0.055	0.062	0.042
5	0.053	0.055	0.057	0.057	0.058	0.055	0.053	0.047	0.052	0.054	0.056	0.058	0.057	0.057	0.058	0.059	0.059	0.060	0.060	0.059	0.059	0.060	0.059	0.057	0.057	0.060	0.047
6	0.057	0.057	0.056	0.056	0.055	0.056	0.053	0.054	0.055	0.054	0.054	0.053	0.052	0.050	0.049	0.049	0.050	0.048	0.046	0.046	0.046	0.051	0.052	0.055	0.052	0.057	0.046
7	0.055	0.056	0.057	0.056	0.052	0.050	0.047	0.055	0.054	0.052	0.051	0.054	0.058	0.060	0.059	0.058	0.057	0.055	0.054	0.053	0.052	0.048	0.042	0.045	0.053	0.060	0.042
8	0.042	0.042	0.048	0.051	0.051	0.046	0.036	0.046	0.050	0.052	0.053	0.048	--	0.055	0.057	0.060	0.064	0.068	0.070	0.071	0.069	0.065	0.060	0.059	0.055	0.071	0.036
9	0.057	0.056	0.054	0.056	0.057	0.056	0.049	0.046	0.055	0.059	0.060	0.062	0.061	0.061	0.061	0.064	0.066	0.066	0.065	0.064	0.063	0.059	0.054	0.059	0.059	0.066	0.046
10	0.059	0.056	0.055	0.048	0.050	0.050	0.043	0.050	0.056	0.056	0.056	0.056	0.055	0.055	0.054	0.053	0.053	0.055	0.055	0.053	0.050	0.048	0.048	0.049	0.053	0.059	0.043
11	0.048	0.049	0.048	0.047	0.047	0.046	0.049	0.056	0.059	0.059	0.058	0.059	0.060	0.062	0.060	0.059	0.058	0.059	0.059	0.058	0.056	0.055	0.053	0.047	0.055	0.062	0.046
12	0.046	0.045	0.043	0.044	0.044	0.044	0.045	0.047	0.048	0.048	0.050	0.051	0.053	0.053	0.053	0.054	0.056	0.060	0.059	0.062	0.063	0.060	0.052	0.051	0.051	0.063	0.043
13	0.050	0.047	0.047	0.047	0.048	0.048	0.047	0.044	0.043	0.044	0.045	0.047	0.054	0.055	0.059	0.060	0.061	0.061	0.061	0.061	0.062	0.061	0.059	0.057	0.053	0.062	0.043
14	0.056	0.053	0.049	0.046	0.046	0.047	0.047	0.048	0.046	0.048	0.051	0.052	0.053	0.052	0.054	0.055	0.055	0.056	0.056	0.054	0.051	0.052	0.051	0.049	0.051	0.056	0.046
15	0.051	0.052	0.052	0.053	0.053	0.052	0.052	0.045	--	0.057	0.057	0.055	0.056	0.059	0.058	0.059	0.060	0.060	0.062	0.063	0.066	0.067	0.061	0.059	0.057	0.067	0.045
16	0.058	0.055	0.056	0.058	0.056	0.055	0.049	0.043	0.053	0.058	0.061	0.062	0.060	0.061	0.062	0.063	0.065	0.066	0.065	0.065	0.063	0.061	0.060	0.059	0.059	0.066	0.043
17	0.058	0.057	0.059	0.059	0.057	0.057	0.054	0.049	0.061	0.061	0.063	0.067	0.070	0.072	0.076	0.074	0.073	0.071	0.066	0.066	0.063	0.058	0.059	0.055	0.063	0.076	0.049
18	0.054	0.055	0.056	0.054	0.055	0.054	0.048	0.048	0.059	0.059	0.060	0.060	0.061	0.064	0.064	0.062	0.063	0.063	0.062	0.060	0.058	0.055	0.060	0.059	0.058	0.064	0.048
19	0.060	0.059	0.058	0.055	0.051	0.053	0.049	0.055	0.054	0.056	0.056	0.056	0.058	0.058	0.057	0.059	0.058	0.059	0.060	0.060	0.059	0.056	0.055	0.054	0.056	0.060	0.049
20	0.054	0.052	0.052	0.053	0.054	0.049	0.050	0.054	0.054	0.055	0.055	0.054	0.054	0.052	0.052	0.051	0.052	0.052	0.050	0.048	0.048	0.048	0.048	0.048	0.052	0.055	0.048
21	0.050	0.051	0.051	0.050	0.050	0.049	0.046	0.047	0.048	0.049	0.049	0.049	0.052	0.052	0.052	0.054	0.054	0.054	0.056	0.055	0.053	0.053	0.051	0.052	0.051	0.056	0.046
22	0.052	0.048	0.044	0.043	0.042	0.046	0.040	0.050	0.052	0.050	0.052	0.053	0.051	0.053	0.053	0.054	0.054	0.056	0.057	0.057	0.056	0.058	0.058	0.058	0.052	0.058	0.040
23	0.056	0.055	0.053	0.049	0.046	0.046	0.039	0.042	0.050	0.052	--	--	0.051	0.054	0.057	0.056	0.055	0.056	0.056	0.056	0.057	0.063	0.058	0.052	0.053	0.063	0.039
24	0.052	0.050	0.051	0.052	0.049	0.049	0.047	0.049	0.056	0.058	0.059	0.057	0.055	0.056	0.058	0.059	0.060	0.063	0.066	0.066	0.064	0.061	0.053	0.046	0.056	0.066	0.046
25	0.046	0.049	0.051	0.045	0.046	0.047	0.052	0.051	0.053	0.055	0.057	0.055	0.055	0.056	0.058	0.060	0.063	0.063	0.063	0.062	0.063	0.061	0.060	0.063	0.056	0.063	0.045
26	0.061	0.061	0.058	0.056	0.055	0.052	0.047	0.053	0.056	0.057	0.060	0.060	0.060	0.062	0.064	0.067	0.067	0.066	0.064	0.062	0.060	0.058	0.058	0.056	0.059	0.067	0.047
27	0.058	0.055	0.054	0.052	0.053	0.046	0.034	0.050	0.053	0.057	0.057	0.056	0.056	0.057	0.060	0.065	0.069	0.068	0.065	0.060	0.057	0.058	0.060	0.054	0.056	0.069	0.034
28	0.050	0.050	0.051	0.049	0.045	0.041	0.037	0.047	0.053	0.055	0.057	0.057	0.058	0.059	0.059	0.062	0.062	0.061	0.060	0.060	0.060	0.059	0.061	0.055	0.054	0.062	0.037
29	0.048	0.048	0.046	0.050	0.052	0.050	0.047	0.046	0.047	0.045	0.048	0.050	0.051	0.051	0.051	0.053	0.054	0.054	0.052	0.049	0.046	0.047	0.045	0.043	0.049	0.054	0.043
30	0.044	0.044	0.046	0.041	0.040	0.039	0.041	0.046	0.050	0.052	0.052	0.056	0.055	0.053	--	--	0.050	0.053	0.056	0.058	0.057	0.053	0.050	0.052	0.049	0.058	0.039
31	0.057	0.054	0.050	0.047	0.045	0.043	0.041	0.044	0.049	0.051	0.051	0.049	0.049	0.053	0.054	0.056	0.055	0.052	0.050	0.049	0.045	0.041	0.040	0.040	0.049	0.057	0.040
Avg	0.053	0.052	0.052	0.051	0.050	0.049	0.046	0.048	0.052	0.054	0.055	0.055	0.056	0.057	0.057	0.058	0.059	0.059	0.059	0.058	0.057	0.056	0.054	0.053	0.054	--	--
Max	0.061	0.061	0.059	0.059	0.058	0.057	0.054	0.056	0.061	0.061	0.063	0.067	0.070	0.072	0.076	0.074	0.073	0.071	0.070	0.071	0.069	0.067	0.062	0.063	--	0.076	--
Min	0.042	0.042	0.043	0.041	0.040	0.039	0.034	0.042	0.043	0.044	0.045	0.047	0.049	0.050	0.047	0.049	0.050	0.048	0.046	0.046	0.045	0.041	0.040	0.040	--	--	0.034

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Jun 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	0.042	0.043	0.043	0.041	0.038	0.035	0.029	0.037	0.040	0.041	0.042	0.045	0.044	0.043	0.045	0.047	0.049	0.047	0.046	0.045	0.044	0.041	0.038	0.041	0.042	0.049	0.029
2	0.041	0.041	0.040	0.040	0.039	0.039	0.033	0.038	0.043	0.046	0.045	0.046	0.050	0.050	0.046	0.045	0.046	0.045	0.044	0.043	0.044	0.040	0.046	0.048	0.043	0.050	0.033
3	0.047	0.043	0.038	0.036	0.031	0.028	0.027	0.036	0.040	0.042	0.043	0.045	0.046	0.047	0.049	0.049	0.043	0.044	0.046	0.045	0.048	0.048	0.043	0.045	0.042	0.049	0.027
4	0.045	0.048	0.049	0.049	0.049	0.050	0.046	0.045	0.059	0.058	0.059	0.055	0.050	0.051	0.053	0.057	0.060	0.061	0.062	0.061	0.050	0.045	0.041	0.043	0.052	0.062	0.041
5	0.043	0.044	0.045	0.047	0.048	0.049	0.046	0.048	0.054	0.056	0.061	0.060	0.058	0.059	0.062	0.063	0.065	0.067	0.067	0.069	0.066	0.065	0.062	0.069	0.057	0.069	0.043
6	0.068	0.067	0.065	0.069	0.066	0.056	0.057	0.059	0.068	0.073	--	--	0.075	0.076	0.076	0.078	0.077	0.077	0.079	0.078	0.079	0.068	0.069	0.068	0.070	0.079	0.056
7	0.069	0.069	0.068	0.069	0.064	0.062	0.058	0.058	0.065	0.067	0.069	0.066	0.063	0.064	0.067	0.066	0.065	0.065	0.066	0.066	0.066	0.071	0.071	0.065	0.066	0.071	0.058
8	0.058	0.058	0.059	0.058	0.058	0.055	0.049	0.051	0.055	0.052	0.050	0.050	0.050	0.049	0.049	0.051	0.053	0.056	0.058	0.062	0.062	0.068	0.071	0.062	0.056	0.071	0.049
9	0.058	0.055	0.052	0.050	0.051	0.053	0.055	0.054	0.054	0.057	0.060	0.062	0.064	0.062	0.064	0.069	0.072	0.076	0.078	0.075	0.070	0.068	0.067	0.068	0.062	0.078	0.050
10	0.069	0.070	0.066	0.057	0.051	0.043	0.041	0.042	0.042	0.043	0.044	0.044	0.045	0.053	0.058	0.059	0.052	0.050	0.053	0.058	0.053	0.044	0.038	0.036	0.050	0.070	0.036
11	0.036	0.035	0.034	0.035	0.035	0.035	0.035	0.038	0.038	0.038	0.039	0.038	0.040	0.041	0.040	0.042	--	0.053	0.052	0.051	0.050	0.049	0.046	0.046	0.041	0.053	0.034
12	0.046	0.044	0.040	0.040	0.037	0.035	0.028	0.036	0.044	0.045	0.054	0.054	0.050	0.050	0.053	0.051	0.049	0.050	0.044	0.042	0.040	0.041	0.041	0.037	0.044	0.054	0.028
13	0.030	0.029	0.029	0.028	0.029	0.029	0.032	0.033	0.035	0.035	0.035	0.037	0.039	0.039	0.040	0.041	0.040	0.040	0.040	0.039	0.037	0.035	0.035	0.037	0.035	0.041	0.028
14	0.040	0.043	0.045	0.047	0.043	0.040	0.035	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--	--	0.035	0.033	0.034	0.034	0.036	0.038	0.039	0.040	0.037	0.038	0.040	--	--	--
20	0.038	0.036	0.036	0.034	0.036	0.037	0.040	0.041	0.039	0.042	0.043	0.041	0.043	0.041	--	0.047	0.051	0.056	0.056	0.053	0.045	0.043	0.042	0.038	0.042	0.056	0.034
21	0.037	0.036	0.035	0.033	0.031	0.031	0.026	0.029	0.031	0.035	0.037	0.038	0.038	0.040	0.043	0.043	0.040	0.038	0.040	0.043	0.039	0.035	0.030	0.026	0.036	0.043	0.026
22	0.024	0.024	0.024	0.024	0.021	0.021	0.020	0.029	0.033	0.033	0.035	0.035	0.037	0.040	0.039	0.038	0.038	0.038	0.039	0.040	0.040	0.042	0.041	0.037	0.033	0.042	0.020
23	0.034	0.037	0.037	0.039	0.036	0.039	0.037	0.043	0.043	0.044	0.044	0.043	0.043	0.044	0.044	0.045	0.043	0.040	0.040	0.041	0.042	0.041	0.038	0.039	0.040	0.045	0.034
24	0.041	0.041	0.037	0.036	0.035	0.037	0.032	0.040	0.044	0.045	0.045	0.045	0.044	0.046	0.048	0.047	0.046	0.045	0.046	0.046	0.042	0.039	0.040	0.039	0.042	0.048	0.032
25	0.042	0.044	0.042	0.042	0.041	0.039	0.037	0.037	0.038	0.043	0.043	0.043	0.044	0.046	0.046	0.046	0.045	0.045	0.044	0.045	0.044	0.045	0.045	0.044	0.043	0.046	0.037
26	0.042	0.041	0.038	0.043	0.047	0.041	0.041	0.039	0.039	0.039	0.041	--	0.042	0.044	0.045	0.044	0.045	0.047	0.047	0.046	0.046	0.045	0.045	0.045	0.043	0.047	0.038
27	0.043	0.042	0.042	0.041	0.042	0.042	0.039	0.040	0.035	0.032	0.036	0.040	0.042	0.044	0.043	0.044	0.044	0.044	0.047	0.048	0.053	0.055	0.050	0.048	0.043	0.055	0.032
28	0.047	0.043	0.042	0.040	0.037	0.038	0.032	0.041	0.039	0.040	0.037	0.041	0.043	0.045	0.047	0.047	0.047	0.047	0.050	0.047	0.044	0.045	0.041	0.043	0.043	0.050	0.032
29	0.048	0.039	0.035	0.033	0.033	0.029	0.026	0.032	0.034	0.034	0.035	0.035	0.035	0.036	0.036	0.037	0.041	0.041	0.043	0.039	0.037	0.037	0.041	0.044	0.037	0.048	0.026
30	0.040	0.034	0.031	0.031	0.029	0.027	0.025	0.032	0.034	0.035	0.032	0.030	0.031	0.034	0.035	0.036	0.038	0.039	0.039	0.039	0.043	0.048	0.046	0.044	0.035	0.048	0.025
Avg	0.045	0.044	0.043	0.042	0.041	0.040	0.037	0.041	0.044	0.045	0.045	0.045	0.047	0.047	0.048	0.049	0.049	0.050	0.051	0.050	0.049	0.048	0.047	0.046	0.045	--	--
Max	0.069	0.070	0.068	0.069	0.066	0.062	0.058	0.059	0.068	0.073	0.069	0.066	0.075	0.076	0.076	0.078	0.077	0.077	0.079	0.078	0.079	0.071	0.071	0.069	--	0.079	--
Min	0.024	0.024	0.024	0.024	0.021	0.021	0.020	0.029	0.031	0.032	0.032	0.030	0.031	0.034	0.033	0.034	0.034	0.036	0.038	0.039	0.037	0.035	0.030	0.026	--	--	0.020

-- 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: 4/4/2014 Time: 09:20 Operator: TEW

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

AIR SCIENCES INC.
REVIEWED BY RPA DATE 4-15-14
AUDITED BY GG - DATE 4/7/14

GG -
250 - 8:30
+ 101 - 8:45
✗ 100 - 9:00
+ 101 - 9:30

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	5	5.68	5.85	+
Direction* 10m (deg)	90	137	87.3	✗
Ambient Temperature (°C)	18	18.3	17.8	+
Relative Humidity (%)	20	16.25	16.9	+
Aspirated Temp 2m	18	18.30	17.5	+
Aspirated Temp 10m	17.8	16.92	16.4	+
Delta Temperature (°C)	N/A	-1.38	-1.1	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	700.13	651	+
Barometric Pressure (mmHg)	N/A	681.59	682	+
Battery Voltage (V)	N/A	12.92	12.9	+
Time (MST)	N/A	09:20	9:15 L.T.	+
Date	N/A	4/4/2014	4/4/2014	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: Topped off evap Tank ✓ GG.

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

Site Operator Signature: TEW

AIR SCIENCES INC.

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

Date: 4/17/2014 Time: 1 40 Operator: Kami Ballard

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

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY RPA DATE 4/24/14
AUDITED BY GG- DATE 4/22/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	3 m/s	2.74	2.77	253 - 13:15 + 196 - 13:30
Direction* 10m (deg)	245°	278.24	258	~~+~~ 265 - 14:00
Ambient Temperature (°C)	29°	28.53	29.2	+ 236 14:15
Relative Humidity (%)	10%	9.74	8.35	+
Aspirated Temp 2m	29°	28.26	28.8	+
Aspirated Temp 10m	28°	26.83	27	+
Delta Temperature (°C)	N/A	-1.43	-1.76	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	939.90	929	+
Barometric Pressure (mmHg)	N/A	681.09	681	+
Battery Voltage (V)	N/A	12.74	12.8	+
Time (MST)	N/A	?	13:45 L.T.	+
Date	N/A	?	4/17/2014	+

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: Kami Ballard

AIR SCIENCES INC.

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

Date: 4/24/2014 Time: 10:52 Operator: Kami Ballard

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

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 4/28/14
AUDITED BY GG DATE 4/28/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	6 m/s	2.7 m/s	3.3	+
Direction* 10m (deg)	178°	179.63	161	+
Ambient Temperature (°C)	36°	25.8	25.7	+
Relative Humidity (%)	15°	6.15	6.22	+
Aspirated Temp 2m	36°	26.31	25.8	+
Aspirated Temp 10m	34°	23.56	23.7	+
Delta Temperature (°C)	N/A	-2.74	-2.12	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	936.22	946	+
Barometric Pressure (mmHg)	N/A	682.71	683	+
Battery Voltage (V)	N/A	12.79	12.8	+
Time (MST)	N/A	10:57	11:00 L.T.	+
Date	N/A	4/24/2014	4/24/2014	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: Filled evap. pan & tipped precip gauge. ✓ GG.
* 0.02" of precip. invalidated at 11:00 hrs. GG.

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

Site Operator Signature: Kami Ballard

AIR SCIENCES INC.

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

Date: 5/2/14 Time: 13:00 Operator: TEW

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

AIR SCIENCES INC. PORTLAND
REVIEWED BY RPA DATE 5-7-14
AUDITED BY GG DATE 5/6/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	5	0.51	2.53	+
Direction* 10m (deg)	178°	178.87	193	+
Ambient Temperature (°C)	30°	28.70	28.8	+
Relative Humidity (%)	15	7.56	7.96	+
Aspirated Temp 2m	30°	28.4	28.8	+
Aspirated Temp 10m	29.8	26.53	26.6	+
Delta Temperature (°C)	N/A	-1.87	-2.18	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	1013.77	1026	+
Barometric Pressure (mmHg)	N/A	683.65	684	+
Battery Voltage (V)	N/A	12.77	12.8	+
Time (MST)	N/A	13:06	13:00 L.T.	+
Date	N/A	5/2/14	5/2/14	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: _____

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

Site Operator Signature: _____

AIR SCIENCES INC.

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

Date: 5/09/2014 Time: 11:25 Operator: TEW

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

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY: WR DATE: 5-13-14
AUDITED BY: GG- DATE: 5/12/14

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2	3.02	2.61
Direction* 10m (deg)	280	242.27	296
Ambient Temperature (°C)	23	24.43	24.1
Relative Humidity (%)	13	16	16.3
Aspirated Temp 2m	23	23.8	23.7
Aspirated Temp 10m	22.97	22.72	22.8
Delta Temperature (°C)	N/A	-1.08	-0.93
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	1205.1	918
Barometric Pressure (mmHg)	N/A	683.13	683
Battery Voltage (V)	N/A	12.80	12.8
Time (MST)	N/A	11:30	11:30 - L.T.
Date	N/A	5/09/2014	5/09/2014

GG-
304 - 11:00
252 - 11:15
264 - 11:45
269 - 12:00

GG-
895 - 11:00
945 - 11:15
921 - 11:45
1054 - 12:00

*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: T Lai

AIR SCIENCES INC.

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

Date: 5/15/2014 Time: 2:28 Operator: Kami Ballard

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

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 5.19.14
AUDITED BY G.G. DATE 5/16/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	2m/s	2.66	3.39	+ 9.75 - 14:00
Direction* 10m (deg)	South	189.85	58.1	☆ 14.9 - 14:15
Ambient Temperature (°C)	30°	31.93	31	+ 142 - 14:45
Relative Humidity (%)	5%	4.95	5.27	+ 30.3 - 15:00
Aspirated Temp 2m	30°	32.09	31	+
Aspirated Temp 10m	29°	30.03	29.8	+
Delta Temperature (°C)	N/A	-2.06	-1.25	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	877.55	908	+
Barometric Pressure (mmHg)	N/A	684.83	685	+
Battery Voltage (V)	N/A	12.72	12.7	+
Time (MST)	N/A	2:35	14:30 L.T.	+
Date	N/A	05/15/2014	05/15/2014	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped precip gauge ☆
☆ 0.02" of precip. invalidated @ 14:45 hrs! G.G.

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

Site Operator Signature: Kami Ballard

AIR SCIENCES INC.

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

Date: 5/23/2014 Time: 11:40 Operator: TEW

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

AIR SCIENCES INC.
DENVER • PORTLAND

WR — REVIEWED BY — DATE 5-30-14

AUDITED BY GG. — DATE 5/30/14

GG.
4.99 - 11:15
5.27 - 11:30
5.22 - 12:00
4.31 - 12:15

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	5	2.10	5.55	✓ +
Direction* 10m (deg)	160	166.8	183	✓ +
Ambient Temperature (°C)	25	25.29	26	✓ +
Relative Humidity (%)	13	10.33	9.98	✓ +
Aspirated Temp 2m	25	25.46	26.2	✓ +
Aspirated Temp 10m	24.7	23.27	23.5	✓ +
Delta Temperature (°C)	N/A	-2.19	-2.7	✓ +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	1060.88	1056	✓ +
Barometric Pressure (mmHg)	N/A	681.37	681	✓ +
Battery Voltage (V)	N/A	12.79	12.8	✓ +
Time (MST)	N/A	11:43	11:45 L.T.	✓ +
Date	N/A	5/23/2014	5/23/2014	✓ +

*Direction wind is from

Comments/Unusual Occurrences or Weather: _____

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

Site Operator Signature: TEW

AIR SCIENCES INC.

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

Date: 05/29/2014 Time: 2:37 Operator: Kami Ballard

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

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 6/3/14

AUDITED BY GG DATE 6/2/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	1 m/s	0.46	1.32	GG - 320 - 14:15 + 320 - 14:30
Direction* 10m (deg)	SW	318.92	70.9	* 123 - 15:00
Ambient Temperature (°C)	30°	29.88	29.8	+ 155 - 15:15
Relative Humidity (%)	25%	19.68	20.3	+
Aspirated Temp 2m	30°	29.09	29.5	+
Aspirated Temp 10m	29°	28.27	28.4	+
Delta Temperature (°C)	N/A	-0.82	-1.08	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	547.49	530	+
Barometric Pressure (mmHg)	N/A	682.63	683	+
Battery Voltage (V)	N/A	12.75	12.8	+
Time (MST)	N/A	2:40	14:45 - L.T.	+
Date	N/A	05/29/2014	05/29/2014	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: Refilled evap pan & topped precip gauge ✓ GG

* 0.016" of precip invalidated @ 14:45 hrs! GG

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

Site Operator Signature: Kami Ballard

AIR SCIENCES INC.

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

Date: 06/06/2014 Time: 10:25 Operator: Kami Ballard

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

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 6-9-14
AUDITED BY GG- DATE 6/9/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	1 m/s	2.09	2	+
Direction* 10m (deg)	W SW	288.74	271	+
Ambient Temperature (°C)	34°	33.12	33.3	+
Relative Humidity (%)	5 %	4.77	3.62	+
Aspirated Temp 2m	34°	33.08	32.8	+
Aspirated Temp 10m	33°	32.03	31.8	+
Delta Temperature (°C)	N/A	-1.05	-0.931	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	976.58	972	+
Barometric Pressure (mmHg)	N/A	678.69	679	+
Battery Voltage (V)	N/A	12.69	12.7	+
Time (MST)	N/A	06/06/2014	10:30 L.T.	+
Date	N/A	10:28	06/06/2014	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: Tipped precip. gauge. 0.004"
* 0.008" of precip. invalidated @ 10:45 hrs & 11:45 hrs (residuals). GG-

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

Site Operator Signature: Kami Ballard

AIR SCIENCES INC.

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

Date: 6/12/2014 Time: 10:20 Operator: TEW

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

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY WR DATE 6-26-14
AUDITED BY G.G. DATE 6/13/14

Parameter	Estimated	Logger	Audit	G.G.
Speed 10m (m/s)	4	4.15	3.28 ✓	+ 237 - 10:00
Direction* 10m (deg)	250	176.56	211 ✓	+ 187 - 10:15
Ambient Temperature (°C)	30	34.21	34.3 ✓	* 200 - 10:45
Relative Humidity (%)	14	7.47	7.39 ✓	+ 348 - 11:00
Aspirated Temp 2m	30	34.27	33.9 ✓	+
Aspirated Temp 10m	29.6	32.31	31.8 ✓	+
Delta Temperature (°C)	N/A	-1.96	-2.08 ✓	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	927.09	922 ✓	+
Barometric Pressure (mmHg)	N/A	682.61	683 ✓	+
Battery Voltage (V)	N/A	12.69	12.7 ✓	+
Time (MST)	N/A	10:27	10:30 L.T. ✓	+
Date	N/A	6/12/2014	6/12/2014 ✓	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: ✓ Tipped rain gauge (learn how to spell gauge)
* 0.087" of precip. invalidated @ 10:30 hrs! G.G. -

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

Site Operator Signature: T Lewis

AIR SCIENCES INC.

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

Date: 6/20/2014 Time: 15:40 Operator: TEW

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

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY RPA DATE 6/25/14

AUDITED BY CG DATE 6/24/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	5	5.48	4.89	+
Direction* 10m (deg)	270	279.27	271	+
Ambient Temperature (°C)	36	37.09	57.6	+
Relative Humidity (%)	12	8.82	8.55	+
Aspirated Temp 2m	36	36.93	37.4	+
Aspirated Temp 10m	35.8	36.19	36.4	+
Delta Temperature (°C)	N/A	-0.73	-1.04	+
Solar Radiation (w/m²)	(Sunny) Partly cloudy Cloudy	680.80	680	+
Barometric Pressure (mmHg)	N/A	680.05	680	+
Battery Voltage (V)	N/A	12.66	12.7	+
Time (MST)	N/A	15:54	16:00 L.T.	+
Date	N/A	6/20/2014	6/20/2014	+

*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: TWaite

AIR SCIENCES INC.

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

Date: 6/27/2014 Time: 9:05 Operator: Ken Ball

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

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY RPA DATE 6-30-14
AUDITED BY EG DATE 6/27/14

Parameter	Estimated	Logger	Audit	EG
Speed 10m (m/s)	1 m/s	2.2	5.77	257 - 08:45
Direction* 10m (deg)	SW	242.08	268	†229 - 09:00
Ambient Temperature (°C)	30°	28.09	28.4	*272 - 09:30
Relative Humidity (%)	15%	20.2	20.2	†272 - 09:45
Aspirated Temp 2m	30°	27.6	28	†
Aspirated Temp 10m	29°	26.7	27.2	†
Delta Temperature (°C)	N/A	-.684	-0.786	†
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	729.3	721	†
Barometric Pressure (mmHg)	N/A	679.93	680	†
Battery Voltage (V)	N/A	12.76	12.8	†
Time (MST)	N/A	9:10	09:15 L.T.	†
Date	N/A	6/27/2014	6/27/2014	†

*Direction wind is from

Comments/Unusual Occurrences or Weather: Filled evap.

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

Site Operator Signature: Ken B

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

WEST PLANT

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

AIR SCIENCES INC.

Date: 4/4/2014 Time: 09:25 Operator: TEW

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 4/4/14 BAM Cal verified 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 4-15-14

AUDITED BY GG- DATE 4/7/14

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

YES NO 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: TWit

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 04/17/2014 Time: 1:42 Operator: Kami Ballard

I. **BAM SAMPLER** – Weekly Checks.

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

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 4/24/14
AUDITED BY GG- DATE 4/22/14

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

GG-

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

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

GG-

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

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

GG-

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

**Comments/Unusual Occurrences: _____

Signature: Kami Ballard

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

AIR SCIENCES INC.

Monthly Flow Verification $PM_{2.5}$

West Plant
PARTICULATE MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC
REVIEWED BY: RPA DATE: 4/28/14
AUDITED BY: GG DATE: 4/28/14

Met One BAM 1020 $PM_{2.5}$: S/N: M8193
Firmware:
Calibrator: Delta Cal S/N: 1034 EXP: 8/14

Date of Flow Audit: 4/24/2014
Time of Flow Audit: 11:69

	BAM	STD
Ambient Temperature (AT) °c	28.5	28.1
Berometric Pressure mmHg	687	683

	Set Point (lpm)	BAM	% Diff (1) (GG)	STD Flow Meter	% Diff (2) (GG)
(1) Actual Flow	15	15.0	0	10.20	-1.32
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0	18.78	-2.02
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0	16.95	-1.48
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

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

	BAM
(2) Leak Test	.3

Should be < 1.0 LPM

Comments/Abnormalities: Self-Test passed

Signature: Ram Ba[illegible]

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

WEST PLANT

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

AIR SCIENCES INC.

Date: 4/24/2014 Time: 11:07 Operator: Kam Ball

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 4/21 - 4/24 → Maintenance ✓
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

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

AIR SCIENCES INC.
REVIEWED BY RPA DATE 4/28/14
AUDITED BY GG. DATE 4/28/14

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 Ball

**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: 5/2/2014 Time: 13:01 Operator: TEW

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 4/30 Flow AT Disconnected ✓ 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.
REVIEWED BY RPA DATE 5-7-14
AUDITED BY GG- DATE 5/6/14

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: TEW

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 5/09/2014 Time: 11:34 Operator: TEW

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 5/06/14 10:33 Count Failed ✓ 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

GG -

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY WR DATE 5-13-14
AUDITED BY GG - DATE 5/12/14

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

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

GG -

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

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

GG -

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

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

GG -

**Comments/Unusual Occurrences: _____

Signature: T [signature]

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

WEST PLANT

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

AIR SCIENCES INC.

Date: 5/15/2014 Time: 2:37 Operator: Kami Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 5/14 → Count Failed ✓ 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 5-19-14
AUDITED BY GG - DATE 5/16/14

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

GG -

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

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

GG -

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

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

GG -

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

**Comments/Unusual Occurrences: _____

Signature: Kami B.

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

WEST PLANT

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

AIR SCIENCES INC.

Date: 5/23/2014 Time: 11:55 Operator: TEW

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 5/14 count failed ✓ 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 WR DATE 5-30-14

AUDITED BY GG- DATE 5/30/14

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

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

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

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

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

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

**Comments/Unusual Occurrences: Changed filter tape, ran self-test (passed)
PM2.5 conc. + flow invalidated for 12:00 & 13:00 hrs! GG.

Signature: TEW

**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: 5/29/2014 Time: 2:41 Operator: Ryan 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). 5/25 → flow AT disconnected ✓ 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 RPA DATE 6/3/14
AUDITED BY GG. DATE 6/2/14

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 GG.
✓		2. Ran the Self-Test function

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

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

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

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

**Comments/Unusual Occurrences: PM 2.5 conc. + flow invalidated for maintenance @ 15:00 hrs! GG.

Signature: Ryan Bell

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

AIR SCIENCES INC.

Monthly Flow Verification $PM_{2.5}$

West Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

Met One BAM 1020 $PM_{2.5}$: S/N: ~~[illegible]~~ M8193

Firmware:

Calibrator: Delta Cal S/N: 1024 EXP: 8/2014

Date of Flow Audit: 5/29/2014

Time of Flow Audit: 2:48

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY: RPA DATE: 6/3/14

AUDITED BY: GG DATE: 6/2/14

	BAM	STD
Ambient Temperature (AT) °c	32.3	31.2
Berometric Pressure mmHg	1084	682.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
			GG		GG
(1) Actual Flow	15	15.0	0	15.02	0.13
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0	18.56	0.86
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0	16.75	0.30
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:

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

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

	BAM
(2) Leak Test	0.2

Should be < 1.0 LPM

Comments/Abnormalities:

Signature: Karen Ballard

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 06/06/2014 Time: 10:27 Operator: Kami Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 5/29 → Delta 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.*

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

GG

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 6-9-14
AUDITED BY GG DATE 6/9/14

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

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

GG

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

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

GG

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

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

GG

**Comments/Unusual Occurrences: _____

Signature: Kami Ballard

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

WEST PLANT

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

AIR SCIENCES INC.

Date: 6/12/2014 Time: 10:22 Operator: TEW

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 6/10 Flow AT disconnected ✓ 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 WR DATE 6-26-14

AUDITED BY GG. DATE 6/13/14

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: TEW

**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: 6/20/2014 Time: 15:50 Operator: TEW

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 6/10 Flow AT disconnected ✓ 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 6/25/14

AUDITED BY GG- DATE 6/24/14

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: _____

**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: 6/27/2014 Time: 9:04 Operator: K. Bollard

I. **BAM SAMPLER** – Weekly Checks.

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

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

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

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 6-30-14
AUDITED BY GG DATE 6/27/14

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

GG

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

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

GG

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

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

GG

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

**Comments/Unusual Occurrences: _____

Signature: K. B

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

AIR SCIENCES INC.

Monthly Flow Verification $PM_{2.5}$

West Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

Met One BAM 1020 $PM_{2.5}$: S/N: 8133

Firmware:

Calibrator: S/N: 1034

Date of Flow Audit: Delta Cal

Time of Flow Audit: 6/27/2014 – 9:15

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY RPA DATE 6-30-14

AUDITED BY GG DATE 6/27/14

	BAM	STD
Ambient Temperature (AT) °c	31.2	29.1
Berometric Pressure mmHg	1083	680

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0	14.97	0.2
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0	18.51	0.59
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0	16.67	0.18
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:

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

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

	BAM
(2) Leak Test	.3

Should be < 1.0 LPM

Comments/Abnormalities: Self Test "Passed"

* PM2.5 conc. & flow invalidated @ 10:00 hrs due to maintenance! GG

Signature: Dan Bell

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

WEST PLANT

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

AIR SCIENCES INC.

Date: 4/4/2014 Time: 09:25 Operator: TEW

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day. 4/4/2014 BAM Cal Membrane 5% ✓ GG.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual).
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

GG.

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

AIR SCIENCES INC.
REVIEWED BY RPA DATE 4-15-14
AUDITED BY GG. DATE 4/7/14

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

GG.

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

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

GG.

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

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

GG.

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

**Comments/Unusual Occurrences: _____

Signature: TWE

**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: 4/17/2014 Time: 1:46 Operator: Kane 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). G.G.
✓		6.	Error log was checked (F3), and errors followed up on (see manual). 04/04-04/08 ⇒ BAM Cal Membrane 5% ✓
✓		7.	Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

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

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RAA DATE 4/24/14
AUDITED BY GG DATE 4/22/14

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

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

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

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

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

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

**Comments/Unusual Occurrences: _____

Signature: _____

**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: 4/24/2014 Time: 11:03 Operator: Kami Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual).
✓		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.
REVIEWED BY RPA DATE 4/28/14
AUDITED BY GG DATE 4/28/14

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

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

GG -

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

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

GG -

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

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

GG -

**Comments/Unusual Occurrences: _____

Signature: Kami B

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

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

West Plant
PARTICULATE MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.
REVIEWED BY RPA DATE 4/28/14
AUDITED BY GG DATE 4/28/14

Met One BAM 1020 PM_{10}: S/N: M8712
Firmware:
Calibrator: Delta Cal S/N: 1034 EXP: 8/14

Date of Flow Audit: 04/24/2014
Time of Flow Audit: 14:43

	BAM	STD
Ambient Temperature (AT) °c	27.7	28.0
Berometric Pressure mmHg	682	681.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0	15.20	-1.32
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0	18.54	-0.76
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0	16.84	-0.83
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

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

	BAM
(2) Leak Test	0.2

Should be < 1.0 LPM

Comments/Abnormalities: Self Test - Passed

Signature: Rami Ballard

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 5/2/14 Time: 13:02 Operator: TEL

I. BAM SAMPLER – Weekly Checks.

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

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 5-7-14

AUDITED BY GG- DATE 5/6/14

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 5/09/2014 Time: 11:31 Operator: TEW

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). BAM CAL membrane 5% 5/9/14 10:58 ✓ G.G.
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

G.G.

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

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY: WR DATE: 5-13-14

AUDITED BY: G.G. DATE: 5/12/14

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

G.G.

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

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

G.G.

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

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

G.G.

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

**Comments/Unusual Occurrences: _____

Signature: _____

**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: 5/15/2014 Time: 2:39 Operator: Kami B.

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 5/11 - 5/15 → BAM Cal Multi-point 5/10 ✓ 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 • PORTLAND
REVIEWED BY RPA DATE 5-19-14
AUDITED BY GG. DATE 5/16/14

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: Ka B

**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: 5/23/2014 Time: 11:43 Operator: TEW

I. **BAM SAMPLER** – Weekly Checks.

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

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

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

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY WR DATE 5-30-14
AUDITED BY G.G. DATE 5/30/14

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

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

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

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

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

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

**Comments/Unusual Occurrences: Replaced filter Tape, ran self-test (passed) ✓ G.G.

Signature: TEW

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 05/29/2014 Time: 244 Operator: Kami Ballard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 5/22 -> 5/29 Bam Cal Membrane 5/6 ✓
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool) 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	
✓		1. Inlet Flow check Performed
✓		2. Visual inspection and dust removal
✓		3. Leak check performed
	✓	4. PM10 particle trap cleaned
✓		5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 6/3/14

AUDITED BY G.G. DATE 6/2/14

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

G.G.

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

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

G.G.

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

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

G.G.

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

**Comments/Unusual Occurrences: PM10 conc. & flow invalidated for maintenance @ 15:00 hrs! G.G.

Signature: Kami Ballard

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

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

West Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY RPA DATE 6/3/14
AUDITED BY G.G. DATE 6/2/14

Met One BAM 1020 PM_{10}: S/N: M~~4198~~ 8172
Firmware:
Calibrator: Delta Cal S/N: 1034 EXP: 8/2014

Date of Flow Audit: 5/29/2014
Time of Flow Audit: 2:45 pm

	BAM	STD
Ambient Temperature (AT) °c	30.7	31.0
Berometric Pressure mmHg	684	682.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
			G.G.		G.G.
(1) Actual Flow	15	15.0	0 ✓	15.03	0.20 ✓
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0 ✓	18.36	0.22 ✓
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0 ✓	16.71	0.06 ✓
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

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

	BAM
(2) Leak Test	0.2

Should be < 1.0 LPM ✓

Comments/Abnormalities:

Signature: Karen Bollard

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 6/06/2014 Time: 10:30 Operator: Karen McCord

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months). ✓ GG
✓		6. Error log was checked (F3), and errors followed up on (see manual). 5/29 → 06/06 – BAM Cal Membrane 5%
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

GG –

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

AIR SCIENCES INC. DENVER • PORTLAND
RPA 6-9-14
REVIEWED BY DATE
AUDITED BY GG – DATE 6/9/14

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 McCord

**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: 6/12/2014 Time: 10:23 Operator: TEW

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 6/12/14 BAM Cal Membrane 5% ✓ G.G.
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

G.G.

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

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY	~~6-26~~ WR	DATE	6-26-14
AUDITED BY	G.G.	DATE	6/13/14

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

G.G.

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

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

G.G.

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

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

G.G.

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

**Comments/Unusual Occurrences: _____

Signature: T [signature]

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 6/20/2014 Time: 15:50 Operator: TEL

I. BAM SAMPLER – Weekly Checks.

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

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 6/25/14
AUDITED BY GG- DATE 6/24/14

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: T Libit

**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: 6/27/2014 Time: 9:14 Operator: K. BALLARD

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 6/23 - 6/27 → 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	
✓		1. Inlet Flow check Performed
✓		2. Visual inspection and dust removal
✓		3. Leak check performed
	✓	4. PM10 particle trap cleaned
✓		5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 6-30-14
AUDITED BY GG. DATE 6/27/14

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

GG.

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

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

GG -

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

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

GG.

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

**Comments/Unusual Occurrences: _____

Signature: _____

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

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

West Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

AIR SCIENCES INC.

REVIEWED BY RPA DATE 6-30-14

AUDITED BY EG DATE 6/27/14

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

Firmware:

Calibrator: Dulte Cal S/N: 1034

Date of Flow Audit: 6/27/2014

Time of Flow Audit: 9:13

	BAM	STD
Ambient Temperature (AT) °c	28.3	29.1
Berometric Pressure mmHg	682	680

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Motor	% Diff (2)
(1) Actual Flow	15	15.0	0	14.99	0.07
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0	18.43	0.16
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0	16.72	-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	.2	**Should be < 1.0 LPM**

Comments/Abnormalities: Self Test "Passed"

* PM10 conc. + flow invalidated @ 10:00hrs due to maintenance! EG

Signature: [illegible]

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: 4/4/2014 Time: 08:50 Operator: TEW

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

AIR SCIENCES INC.
REVIEWED BY RPA DATE 4-15-14
AUDITED BY GG- DATE 4/7/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	4	6.65	5.13	+
Direction* 10m (deg)	40	40.46	50	+
Ambient Temperature (°C)	18	13.19	13.5	+
Relative Humidity (%)	20	25.21	25.3	+
Aspirated Temp 2m	18	13.19	13.2	+
Aspirated Temp 10m	17.5	11.89	12	+
Delta Temperature (°C)	N/A	-1.29	-1.28	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	643.95	636	+
Barometric Pressure (mmHg)	N/A	651.60	652	+
Battery Voltage (V)	N/A	12.94	12.9	+
Time (MST)	N/A	08:56	9:00 L.T.	+
Date	N/A	4/4/2014	4/4/2014	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: evap tank full

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

Site Operator Signature: TEW

AIR SCIENCES INC.

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

Date: 04/17/2014 Time: 1:12 Operator: Kame Ballard

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

AIR SCIENCES INC
DENVER • PORTLAND
REVIEWED BY RPA DATE 4-24-14
AUDITED BY GG DATE 4/22/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	195	216.22	288	✗
Direction* 10m (deg)	1 m/s	1.3	2.44	+
Ambient Temperature (°C)	26°	24.83	25.4	+
Relative Humidity (%)	15%	10.74	10.2	+
Aspirated Temp 2m	26°	24.28	24.4	+
Aspirated Temp 10m	25°	22.99	23.2	+
Delta Temperature (°C)	N/A	-1.35	-1.16	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	993.79	1,001	+
Barometric Pressure (mmHg)	N/A	652.32	652	+
Battery Voltage (V)	N/A	12.7	12.7	+
Time (MST)	N/A	1:15	13:15 L.T.	+
Date	N/A	04/17/2014	04/17/2014	+

210 - 12:45
244 - 13:00
266 - 13:30
269 - 13:45

*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: Kame Ballard

AIR SCIENCES INC.

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

Date: 4/25/2014 Time: 2:37 pm Operator: Kami

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

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY RPA DATE 4/28/14
AUDITED BY GG- DATE 4/28/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	10 m/s	3.7	5.33	+
Direction* 10m (deg)	230	228.55	223	+
Ambient Temperature (°C)	26°	24.83°	24.7	+
Relative Humidity (%)	11°	10.15	10.6	+
Aspirated Temp 2m	26°	24.42	24.5	+
Aspirated Temp 10m	25°	23.38	23.4	+ 846- 14:15
Delta Temperature (°C)	N/A	-1.04	-1.17	+ 832 - 14:30
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	827.96	697	+ 656 - 15:00
Barometric Pressure (mmHg)	N/A	649.50	649	+ 575- 15:15
Battery Voltage (V)	N/A	12.71	12.7	+
Time (MST)	N/A	2:38 pm	14:45 L.T.	+
Date	N/A	4/25/2014	4/25/2014	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: Refill 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 Pollard

AIR SCIENCES INC.

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

Date: 4/30/2014 Time: 11:50 am Operator: Kamie 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 APA DATE 5-7-14
AUDITED BY GG DATE 5/6/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	8 m/s	7.63	8.17	+ 58.9 - 11:30 / 69.2 - 12:15
Direction* 10m (deg)	NE	31.35	58.9	~~+~~ 84.3 - 11:45 / 77.9 - 12:30
Ambient Temperature (°C)	21°	19.60	19.8	+
Relative Humidity (%)	10%	7.73	7.65	+
Aspirated Temp 2m	21°	19.70	19.8	+
Aspirated Temp 10m	20°	18.18	18.2	+
Delta Temperature (°C)	N/A	-1.52	-1.63	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	1077.15	1078	+
Barometric Pressure (mmHg)	N/A	652.76	653	+
Battery Voltage (V)	N/A	12.81	12.8	+
Time (MST)	N/A	11:55	12:00 L.T.	+
Date	N/A	4/30/2014	4/30/2014	

*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: Kamie Ballard

AIR SCIENCES INC.

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

Date: 06/08/2014 Time: 10:42 Operator: Kami Ballard

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

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY WR DATE 5-13-14
AUDITED BY G.G. DATE 5/12/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	5 m/s	4.5	5.1	+
Direction* 10m (deg)	W	276.90	262	+
Ambient Temperature (°C)	17°	17.32	17.5	+
Relative Humidity (%)	20%	26.77	26.3	+
Aspirated Temp 2m	17°	15.70	16.1	+ G.G.
Aspirated Temp 10m	16°	15.10	15.2	+
Delta Temperature (°C)	N/A	−0.58	−0.909	+ 937 - 10:15
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	829.03	987	✱ 971 - 10:30
Barometric Pressure (mmHg)	N/A	652.82	653	+ 993 - 11:00
Battery Voltage (V)	N/A	12.80	12.8	+ 1036 - 11:15
Time (MST)	N/A	10:45	10:45 L.T.	+
Date	N/A	05/08/2014	05/08/2014	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: Filled evap. pan & tipped precip. gauge. G.G.
✱ 0.012" of precip invalidated @ 11:00 hrs. G.G.

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

Site Operator Signature: Kami Ballard

AIR SCIENCES INC.

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

Date: 5/15/2014 Time: 3:06 Operator: Kami Ballard

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

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 5-19-14
AUDITED BY G.G. DATE 5/16/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s).	3m/s	4.25	3.01	+
Direction* 10m (deg)	NE	55.12	60.1	+
Ambient Temperature (°C)	29°	28.57	28.8	+
Relative Humidity (%)	5%	6.21	6.28	+
Aspirated Temp 2m	29°	28.61	28.7	+
Aspirated Temp 10m	28°	26.73	26.8	+
Delta Temperature (°C)	N/A	-1.87	-1.93	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	796.57	794	+
Barometric Pressure (mmHg)	N/A	655.44	655	+
Battery Voltage (V)	N/A	12.66	12.7	+
Time (MST)	N/A	3:10	15:15 L.T.	+
Date	N/A	?	5/15/2014	+

*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 Ballard

AIR SCIENCES INC.

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

Date: 5/22/2014 Time: 9:44 Operator: Kami Ballard

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY WR DATE 5-30-14
AUDITED BY GG. DATE 5/30/14

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

WR

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	5 m/s	6.45	2.99	*
Direction* 10m (deg)	SW	219.31	175	*
Ambient Temperature (°C)	27°	25.58	25.5	
Relative Humidity (%)	10%	8.17	8.57	
Aspirated Temp 2m	27°	24.79	25.2	
Aspirated Temp 10m	26°	23.79	24.1	
Delta Temperature (°C)	N/A	-0.99	-1.06	
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	662.06	721	
Barometric Pressure (mmHg)	N/A	650.68	651	
Battery Voltage (V)	N/A	12.69	12.7	
Time (MST)	N/A	9:47	15:45 L.T.	
Date	N/A	05/22/2014	05/22/2014	

GG-
3.21 - 15:15
3.9 - 15:30
3.25 - 16:00
2.89 - 16:15

GG-
193 - 15:15
197 - 15:30
172 - 16:00
238 - 16:15

*Direction wind is from

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

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

Site Operator Signature: Kami Ballard

*. Not indicated by Site operator WR

AIR SCIENCES INC.

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

Date: 05/30/2014 Time: 1:54 Operator: KB & TW

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY RPA DATE 6/3/14
AUDITED BY G.G. DATE 6/2/14

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

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	2m/s	0.36	2.83	+
Direction* 10m (deg)	225°	265.67	229	*
Ambient Temperature (°C)	31	31.64	31.9	+
Relative Humidity (%)	14 %	13.56	13.3	+
Aspirated Temp 2m	31°	31.51	31.3	+
Aspirated Temp 10m	30°	29.89	30.2	+
Delta Temperature (°C)	N/A	-1.62	-1.1	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	947.14	943	+
Barometric Pressure (mmHg)	N/A	652.10	652	+
Battery Voltage (V)	N/A	12.62	12.6	+
Time (MST)	N/A	1:54	14:00 L.T.	+
Date	N/A	05/30/2014	05/30/2014	+

G.G.
93.6 - 13:30
297 - 13:45
184 - 14:15
265 - 14:30

*Direction wind is from

Comments/Unusual Occurrences or Weather: Filled evap pan *

* Data suggests that evap. pan might have been overfilled - chain off the sprocket. G.G.

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

Site operator notified.

Site Operator Signature: Karie Ballard

AIR SCIENCES INC.

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

Date: 6/06/2014 Time: 11:03 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 6-9-14
AUDITED BY G.G. DATE 6/9/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	2ms	1.89	2.36	GG. 322 - 10:30 + 235 - 10:45
Direction* 10m (deg)	S.	184.31	349	★ 224 - 11:15
Ambient Temperature (°C)	32°	31.59	31.1	+ 276 - 11:30
Relative Humidity (%)	5°	3.01	3.34	+
Aspirated Temp 2m	32°	30.47	30.2	+
Aspirated Temp 10m	31°	29.35	28.6	+
Delta Temperature (°C)	N/A	-1.44	-1.63	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	1059.68	1044	+
Barometric Pressure (mmHg)	N/A	650.24	650	+
Battery Voltage (V)	N/A	12.63	12.6	+
Time (MST)	N/A	11:05	11:00 L.T.	+
Date	N/A	06/06/2014	06/06/2014	+

*Direction wind is from

Comments/Unusual Occurrences or Weather: Filled sump pump & topped precip gauge.
★ 0.004" of precip. unindicated @ 11:00 hrs! GG.

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

Site Operator Signature: K. Ballard

AIR SCIENCES INC.

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

Date: 6/11/2014 Time: 3:28 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 WK DATE 6-26-14

AUDITED BY GG DATE 6/13/14

GG -
5.38 - 15:00
4.64 - 15:15

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	6m/s	9.78	4.53 ✓	* 4.57 - 15:45
Direction* 10m (deg)	SW	203.94	198 ✓	+ 354 - 16:00
Ambient Temperature (°C)	31°	32.25	31.5 ✓	+
Relative Humidity (%)	15%	15.16	15.6 ✓	+
Aspirated Temp 2m	31°	32.06	31.5 ✓	+
Aspirated Temp 10m	30°	30.81	30.4 ✓	+
Delta Temperature (°C)	N/A	-1.24	-1.07 ✓	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	729.62	748 ✓	+
Barometric Pressure (mmHg)	N/A	651.09	651 ✓	+
Battery Voltage (V)	N/A	12.62	12.6 ✓	+
Time (MST)	N/A	3:31	15:30 L.T. ✓	+
Date	N/A	06/11/2014	06/11/2014 ✓	+

*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: Kami Ballard

AIR SCIENCES INC.

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

Date: 6/19/2014 Time: 11:44 Operator: Kame 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 6/25/14
AUDITED BY GG DATE 6/23/14

GG.

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	3 m/s	2.71	3.14	73.3 - 11:30 + 143 - 11:45
Direction* 10m (deg)	S	187.85	166	* 192 - 12:15
Ambient Temperature (°C)	30°	29.55	30.2	+ 251 - 12:30
Relative Humidity (%)	15°	14.49	14.5	+
Aspirated Temp 2m	30°	29.10	30	+
Aspirated Temp 10m	29°	27.90	28.1	+
Delta Temperature (°C)	N/A	-1.20	-1.87	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	1059.94	1057	+
Barometric Pressure (mmHg)	N/A	654.09	654	+
Battery Voltage (V)	N/A	12.63	12.6	+
Time (MST)	N/A	12:01	12:00 - L.T.	+
Date	N/A	6/19/2014	6/19/2014	+

*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: Kame Ballard

AIR SCIENCES INC.

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

Date: 06/26/2014 Time: 10:42 Operator: Kane BaCl[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 6-30-14
AUDITED BY GG DATE 6/27/14

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	1 m/s	0.41	2.55	GG - 242 - 10:15 + 220 - 10:30
Direction* 10m (deg)	E.	92.09	216	* 231 - 11:00
Ambient Temperature (°C)	31°	30.76	29.9	+ 208 - 11:15
Relative Humidity (%)	15%	14.60	15	+
Aspirated Temp 2m	31°	29.02	29.1	+
Aspirated Temp 10m	30°	27.98	27.9	+
Delta Temperature (°C)	N/A	-1.03	-1.27	+
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	993.78	989	+
Barometric Pressure (mmHg)	N/A	652.74	653	+
Battery Voltage (V)	N/A	12.64	12.6	+
Time (MST)	N/A	10:45	10:45 - L.T.	+
Date	N/A	06/26/2014	06/26/2014	+

*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: Kane BaCl[illegible]

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 4/4/2014 Time: 08:50 Operator: TEW

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 3/28/14 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 trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY RPA DATE 4-15-14
AUDITED BY GG - DATE 4/7/14

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

GG -

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

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

GG -

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

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

GG -

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

**Comments/Unusual Occurrences: _____

Signature: [signature]

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 4/17/2014 Time: 1:10 Operator: Kami Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 4/09 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 trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY RPA DATE 4/24/14
AUDITED BY GG. DATE 4/22/14

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: Set-up 72 hr. zero air background calibration Start Time = 1:07 pm. ✓ GG.

Signature: Kami Ballard

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 4/25/2014 Time: 14:45 Operator: Kami & Tom

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 4/17 → Maintenance ✓
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

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

GG

AIR SCIENCES INC
REVIEWED BY RPA DATE 4/28/14
AUDITED BY GG DATE 4/28/14

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: Kim R.

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

AIR SCIENCES INC.

Monthly Flow Verification $PM_{2.5}$

East Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

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

Firmware:

Calibrator: Delta Cal S/N: 1034 Exp: 8/14

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY RPA DATE 4/28/14

AUDITED BY GG- DATE 4/28/14

Date of Flow Audit: 4/25/2014

Time of Flow Audit: 14:46

	BAM	STD
Ambient Temperature (AT) °c	25.3	24.3
Berometric Pressure mmHg	649	649

	Set Point (lpm)	BAM	% Diff (1) GG-	STD Flow Meter	% Diff (2) GG-
(1) Actual Flow	15	14.8	-1.33	14.71	0.61
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.3	-0.54	18.13	0.94
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.6	-0.60	16.41	1.16
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: Self Test Passed

Signature: K. BALLARD

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 4/30/2014 Time: 11:43 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). ✓ G.G.
✓		6. Error log was checked (F3), and errors followed up on (see manual). Tape Break → 4/30
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

G.G.

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

AIR SCIENCES INC.
REVIEWED BY RPA DATE 5-7-14
AUDITED BY G.G. DATE 5/6/14

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.*

G.G.

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

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

G.G.

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

**Comments/Unusual Occurrences: _____

Signature: 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.

Date: 05/08/2014 Time: 10:50 Operator: Karri Baca

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 4/30 → Tape Break ✓ KB
✓		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.*

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 WR DATE 5-13-14

AUDITED BY KB DATE 5/12/14

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: Karri Baca

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 5/15/2014 Time: 5:15 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). 4/30 → Tape Break ✓ G.G.
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

G.G.

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

AIR SCIENCES INC.
RPA PORTLAND
REVIEWED BY DATE 5.19.14
AUDITED BY G.G. DATE 5/16/14

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

G.G.

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

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

G.G.

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

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

G.G.

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

**Comments/Unusual Occurrences: _____

Signature: Kami Ballard

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 5/22/2014 Time: 3:57 Operator: Karen BaChol

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). H/30 → 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 and 2.5 cyclone particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY WR DATE 5-30-14

AUDITED BY GG - DATE 5/30/14

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 BaChol

**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: 05/30/2014 Time: 14:04 Operator: KB & TW

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 4:30 → 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.*

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

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RAA DATE 6/3/14
AUDITED BY GG- DATE 6/2/14

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: PM 2.5 cont. + flow invalidated for maintenance @ 15:00 hrs! GG-

Signature: Kara Bellard

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

AIR SCIENCES INC.

Monthly Flow Verification $PM_{2.5}$

East Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY	RPA	DATE	6/3/14
AUDITED BY	GG	DATE	6/2/14

Met One Firmware: $PM_{2.5}$: S/N: H64666

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

Date of Flow Audit: 05/30/2014

Time of Flow Audit: 2:07

	BAM	STD
Ambient Temperature (AT) °c	33.5	32.7
Berometric Pressure mmHg	650	652.0

✓

	Set Point (lpm)	BAM	% Diff (1) GG	STD Flow Meter	% Diff (2) GG
(1) Actual Flow	15	15.0	0 ✓	14.88	0.81 ✓
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0 ✓	18.04	2.00 ✓
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.5	1.20 ✓	16.35	0.92 ✓
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: Self Test "Passed"

Signature: Kami Ballard

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 6/06/2014 Time: 11:29 Operator: Karen McCold

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 5/30 – count failed ✓ G.G.
✓		7. Climate control appears operational (if it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

YES NO G.G. –

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 6-9-14
AUDITED BY G.G. DATE 6/9/14

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: _____

Signature: K. BALLARD

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 6/11/2014 Time: 3:37 Operator: K. Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 5/30 -> Count Failed ✓ G.G.
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

G.G.

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

AIR SCIENCES INC.
DENVER · PORTLAND

WR 6-26-14
REVIEWED BY DATE

AUDITED BY G.G. DATE 6/13/14

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

G.G.

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

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

G.G.

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

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

G.G.

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

**Comments/Unusual Occurrences: _____

Signature: K. Ballard

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

6/19/14 * GG.

Date: 11/19/2014 Time: 11:51 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). 6/14 → 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 • PORTLAND
REVIEWED BY RPA DATE 6/25/14
AUDITED BY GG. DATE 6/23/14

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:

* Date should be 06/19/2014!

Signature: Karen Bell

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 6/26/2014 Time: _____ Operator: Karen Bellard

I. BAM SAMPLER – Weekly Checks.

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

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

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

AIR SCIENCES INC. DENVER • PORTLAND
REVIEWED BY RPA DATE 6-30-14
AUDITED BY CG DATE 6/27/14

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

CG.

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.*

CG.

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.*

CG.

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 Bellard

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

AIR SCIENCES INC.

Monthly Flow Verification $PM_{2.5}$

East Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 6-30-14
AUDITED BY GG. DATE 6/27/14

Met One $PM_{2.5}$: S/N: 6466
Firmware:
Calibrator: Delta Cal S/N: 1034

Date of Flow Audit: 6/27/2014
Time of Flow Audit: 8:42 ✓

	BAM	STD
Ambient Temperature (AT) °c	25.6	24.7
Berometric Pressure mmHg	651	651.0

✓

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
			GG		GG
(1) Actual Flow	15	15.0	0 ✓	14.85	1.01 ✓
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.3	0.54 ✓	18.19	0.6 ✓
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.4	0.6 ✓	16.48	0.73 ✓
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	.5	**Should be < 1.0 LPM** ✓

Comments/Abnormalities: Self Test "Passed"

* PM2.5 conc. + flow unindicated @ 09:00 hrs. due to maintenance! GG

Signature: Kari Ballard

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 4/4/2014 Time: 09:00 Operator: TEW

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 3/28/14 Maintenance ✓ G.G.
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

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.
REVIEWED BY: RPA DATE: 4-15-14
AUDITED BY: G.G. DATE: 4/7/14

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

G.G.

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

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

G.G.

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

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

G.G.

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

**Comments/Unusual Occurrences: _____

Signature: T Cole

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 4/17/2014 Time: 1:20 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). 04/09 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 Perfomed
	✓	2. Visual inspection and dust removal
	✓	3. Leak check performed
	✓	4. PM10 particle trap cleaned
	✓	5. Inlet nozzle and nozzle are cleaned

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 4/24/14
AUDITED BY GG. DATE 4/22/14

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

GG.

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

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

GG.

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

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

GG.

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

**Comments/Unusual Occurrences: _____

Signature: Kami Ballard

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 4/25/2014 Time: 14:43 Operator: K. Ballard & T. White

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months). ✓
✓		6. Error log was checked (F3), and errors followed up on (see manual). 04/09 → tape latch
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

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

AIR SCIENCES INC.
REVIEWED BY RPA DATE 4/28/14
AUDITED BY GG- DATE 4/28/14

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. Ba

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

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

East Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

AIR SCIENCES INC

REVIEWED BY RPA DATE 4/28/14

AUDITED BY GG DATE 4/28/14

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

Firmware:

Calibrator: Delta Cal S/N: 1034 Exp: 8/14

Date of Flow Audit: 4/25/2014

Time of Flow Audit: 14:48

	BAM	STD	
Ambient Temperature (AT) °c	24.7	24.6	✓
Berometric Pressure mmHg	654	649	✓

GG- GG-

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)	
(1) Actual Flow	15	15.0	✓	15.04	-0.27	✓
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*	
(2) Actual Flow	18.4	18.3	-0.54 ✓	18.44	-0.76	✓
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*	
(3) Actual Flow	16.7	16.7	✓	16.72	-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	0.4	**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

EAST PLANT

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

AIR SCIENCES INC.

Date: 4/30/2014 Time: 11:40 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). 4/30 - 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.
REVIEWED BY RPA DATE 5-7-14
AUDITED BY GG. DATE 5/6/14

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: _____

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.

Date: 05/08/2014 Time: 10:47 Operator: K. Bacard

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 4/30 - Tape Tension ✓ G.G.
✓		7. Climate control appears operational (If it's cold out the shelter should feel warm, if it's hot out the shelter should feel cool)

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

G.G.

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

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY WR DATE 5-13-14

AUDITED BY G.G. DATE 5/12/14

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

G.G.

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

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

G.G.

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

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

G.G.

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

**Comments/Unusual Occurrences: _____

Signature: Kami Bacard

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 5/15/2014 Time: 3:14 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). H30 → Tape Tension ✓ 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 5-19-14
AUDITED BY GG. DATE 5/16/14

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

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

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

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

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

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

**Comments/Unusual Occurrences: _____

Signature: Kami Ballard

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 5/22/2014 Time: 3:50 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). 4/30 → Tape Tension ✓ 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 WR DATE 5-30-14

AUDITED BY GG. DATE 5/30/14

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: Karne Ballard

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

EAST PLANT

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

AIR SCIENCES INC.

Date: 05/30/2014 Time: 14:02 Operator: KB & TW

I. BAM SAMPLER – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓	✓	6. Error log was checked (F3), and errors followed up on (see manual). 4/30 → Tape Tension ✓ 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 6/3/14
AUDITED BY GG- DATE 6/2/14

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: PM10 conc + flow invalidated for maintenance @ 15:00 hrs! GG-

Signature: Kane Ballard

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

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

East Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 6/3/14

AUDITED BY GG DATE 6/2/14

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

Firmware:

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

Date of Flow Audit: 5/30/2014

Time of Flow Audit: 2:05

	BAM	STD
Ambient Temperature (AT) °c	33.5	31.2
Berometric Pressure mmHg	652	652.0

→ (Had to calibrate. BAM originally read 661 BP) ✓ GG.

	Set Point (lpm)	BAM	% Diff (1) GG -	STD Flow Meter	% Diff (2) GG -
(1) Actual Flow	15	15.0	0.67 ✓	14.90	1.34 ✓
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.3	0.54 ✓	18.20	0.55 ✓
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0 ✓	16.53	1.03 ✓
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: Self Test "Passed"

Signature: Kaine Ballard

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

EAST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 06/04/2014 Time: 11:24 Operator: K. Ball-C

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 5/30 – 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

REVIEWED BY RPA DATE 6-9-14

AUDITED BY GG. DATE 6/9/14

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 Ball-C

**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: 6/11/2014 Time: 3:30 Operator: K. Ballard

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 5/30 → 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
REVIEWED BY WR DATE 6-26-14
AUDITED BY GG. DATE 6/13/14

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. 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: 6/19/2014 Time: 11:49 Operator: Karen Bolland

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
✓		1. The sampler is intact and the inlet head is unobstructed.
✓		2. The vacuum pump is running and sounds normal.
✓		3. The temperature shield is intact, and the sensor is inside of it.
✓		4. The BAM is reading the correct time and day.
✓		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
✓		6. Error log was checked (F3), and errors followed up on (see manual). 6/14 → 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
RPA 6/25/14
REVIEWED BY DATE
AUDITED BY GG- DATE 6/23/14

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 Bolland

**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: 6/26/2014 Time: 10:46 Operator: Kane B. Cloud

I. **BAM SAMPLER** – Weekly Checks.

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

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

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

AIR SCIENCES INC.
DENVER • PORTLAND
REVIEWED BY RPA DATE 6-30-14
AUDITED BY GG. DATE 6/27/14

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

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

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

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

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

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

**Comments/Unusual Occurrences: _____

Signature: Kane B. Cloud

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

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

East Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

AIR SCIENCES INC.
RPA DENVER • PORTLAND
REVIEWED BY 6-30-14 DATE
AUDITED BY GG. DATE 6/27/14

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

Firmware:

Calibrator: Delta Cal S/N: 1034

Date of Flow Audit: 6/27/2014 ✓

Time of Flow Audit: 8:41

	BAM	STD
Ambient Temperature (AT) °c	26.7	25.3 ✓
Berometric Pressure mmHg	650	650.5 ✓

GG. GG.

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0 ✓	14.81	1.28 ✓
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0 ✓	18.22	0.99 ✓
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0 ✓	16.55	0.91 ✓
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:

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

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

	BAM	
(2) Leak Test	.4	**Should be < 1.0 LPM** ✓

Comments/Abnormalities: Self-Test "Passed"

★ PM10 conc + flow invalidated @ 09:00 hrs. for maintenance! GG.

Signature: Kim Ballard

Upon completion of this form, fax 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 5-1-14
REVIEWED BY DATE
RPA 4-18-14
AUDITED BY DATE

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

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: R. ATTRINGE	Teledyne API T100 SO_2 Analyzer S/N	193	Verification Start Time	1109
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	1155
Date: 4-18-2014			T100 Analyzer Range	500ppb
	NIST Traceable Gas Conc.	40.4 ppb	Shelter Temperature (5-40 ° C)	23.8

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	NO2 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0.0	-0.67	0.6	Zero Drift ≤ ±1.5 %	NO
400 ppb	400	403.2	1.3	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	-0.67	-0.54	± 2 ppb	NO
400 ppb	403.2	404.4	± 2 ppb	NO

Analyzer Parameters

Sample Flow (450 ± 45 cc/min)	449	Sample Press. (Ambient ± 2 in-Hg)	25.7
UV Lamp (1000 - 4800 mV)	2362.3	Lamp Ratio (30 - 120%)	100
Slope (1 ± 0.3)	1.013	BOX Temp. (Ambient ± 5°C)	32.8
Offset (< 250 mV)	12.8	HVPS (400 - 900 V)	571

Operator Comments:

Filter Change Required

Operator Signature:

Rory Attringe

AIR SCIENCES INC.
DENVER • PORTLAND
WR 5-28-14
REVIEWED BY RPA DATE 4.25.14
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	1405
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1430
Date: 4-24-14			T100 Analyzer Range	500 ppb
	NIST Traceable Gas Conc. ppm	SO_2 40.4	Shelter Temperature (5-40 ° C)	23.4

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	0.0	0.457	0.128	Zero Drift ≤ ± 1.5 %	0.033
400 ppb	400	423.8	0.344	Span Drift ≤ ± 10 %	400.988

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.033	0.034	± 2 ppb	NO
400 ppb	400.988	401.906	± 2 ppb	NO

Analyzer Parameters

Sample Flow (450 ± 45 cc/min)	449	Sample Press. (Ambient ± 2 in-Hg)	25.6
UV Lamp (1000 - 4800 mV)	2354.6	Lamp Ratio (30 - 120%)	99.7
Slope (1 ± 0.3)	1.26	BOX Temp. (Ambient ± 5°C)	32.5
Offset (< 250 mV)	12.4	HVPS (400 - 900 V)	571

Operator Comments:

NONE

Operator Signature:

Ray Attridge

AIR SCIENCES INC.
DENVER • PORTLAND

WR 5-14-14
REVIEWED BY DATE
RPA 5-13-14
AUDITED BY DATE

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

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: Kami Ballard	Teledyne API T100 SO_2 Analyzer S/N	193	Calibration Start Time	11:32
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	11:54
Date: 05/08/2014			T100 Analyzer Range	500
	NIST Traceable Gas Conc.	40.1	Shelter Temperature (5-40 ° C)	22.82

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	0.142	0.144	Zero Drift ≤ ± 1.5 %	.006
400 ppb	400	395.563	0.532	Span Drift ≤ ± 10 %	403.89

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.142	0.248	± 2 ppb	No
400 ppb	395.563	396.248	± 2 ppb	No

Analyzer Parameters

Sample Flow (450 ± 45 cc/min)	456	Sample Press. (Ambient ± 2 in-Hg)	26.0
UV Lamp (1000 - 4800 mV)	2330.6	Lamp Ratio (30 - 120%)	98.7
Slope (1 ± 0.3)	1.897	BOX Temp. (Ambient ± 5°C)	32.1
Offset (< 250 mV)	12.4	HVPS (400 - 900 V)	571

Operator Comments: INVALIDATED THE 1200 HRS CONCENTRATION — RPA

Operator Signature: Kami Ballard

AIR SCIENCES INC.
DENVER • PORTLAND

WR 5-28-14
REVIEWED BY DATE
RPA 5-15-14
AUDITED BY DATE

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

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: R. ATTRIDGE	Teledyne API T100 SO_2 Analyzer S/N	193	Verification Start Time	0738
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	0821
Date: 5-15-14			T100 Analyzer Range	500 ppb
	NIST Traceable Gas Conc.	40.4 ppb	Shelter Temperature (5-40 ° C)	23.7

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	ZERO	0.04	0.5	Zero Drift ≤ ± 1.5 %	NO
400 ppb	400	407.8	0.3	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	0.04	0.54	± 2 ppb	NO
400 ppb	407.8	408.4	± 2 ppb	NO

Analyzer Parameters

Sample Flow (450 ± 45 cc/min)	457	Sample Press. (Ambient ± 2 in-Hg)	26.5
UV Lamp (1000 - 4800 mV)	2323.2	Lamp Ratio (30 - 120%)	98.4
Slope (1 ± 0.3)	1.9	BOX Temp. (Ambient ± 5°C)	32.8
Offset (< 250 mV)	12.3	HVPS (400 - 900 V)	571

Operator Comments: 0800-0900 HRS CONCENTRATIONS SHALL BE INVALIDATED. -RPA
- SLOPE IS .3 ABOVE TELEDYNE RECOMMENDATIONS.

Operator Signature: R. Attridge

Resolution Copper Mining

East Plant Monitoring Station

SO_2 Level 1 Zero and Span Calibration

AIR SCIENCES INC. DENVER • PORTLAND

AIR SCIENCES INC. DENVER • PORTLAND

REVIEWED BY RPA DATE 5-27-14

AUDITED BY WR DATE 5-23-14

Operator: B. Rucker	Teledyne API T100 SO_2 Analyzer S/N	193	Calibration Start Time	10:00
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	10:40
Date: 5-23-14			T100 Analyzer Range	0-500
	NIST Traceable Gas Conc.	40.4	Shelter Temperature (5-40 ° C)	24.12

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	0	0.178	0.038	Zero Drift ≤ ± 1.5 %	-0.137
400 ppb	400	408.974	.193	Span Drift ≤ ± 10 %	401.382

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	-0.137	0.29	± 2 ppb	NO
400 ppb	401.382	402.344	± 2 ppb	NO

Analyzer Parameters

Sample Flow (450 ± 45 cc/min)	448	Sample Press. (Ambient ± 2 in-Hg)	25.7
UV Lamp (1000 - 4800 mV)	2314.8	Lamp Ratio (30 - 120%)	98.0
Slope (1 ± 0.3)	1.876	BOX Temp. (Ambient ± 5°C)	32.6
Offset (< 250 mV)	12.6	HVPS (400 - 900 V)	571

Operator Comments: Slope above 1.03. Before the calibration the slope was 1.917. WR

Operator Signature:

INVALIDATED THE 11:00 HOURS CONCENTRATION DATA RESULTING FROM THE LEVEL 1 ZERO/SPAN CAL. — R. ATTRINGE

AIR SCIENCES INC.
DENVER • PORTLAND

WR 6-6-14
REVIEWED BY DATE
R. ATTRINGE 6-5-14
AUDITED BY DATE

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

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: Kami	Teledyne API T100 SO_2 Analyzer S/N	193	Verification Start Time	2:40
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	2:59
Date: 5/30/2014			T100 Analyzer Range	500 PPB
	NIST Traceable Gas Conc.	40.2	Shelter Temperature (5-40 ° C)	21.02

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	Ø	.404	.055	Zero Drift ≤ ±1.5 %	No
400 ppb	400	395.146	0.959	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	.404	0.65	± 2 ppb	No
400 ppb	395.146	396.233	± 2 ppb	NO

Analyzer Parameters

Sample Flow (450 ± 45 cc/min)	454	Sample Press. (Ambient ± 2 in-Hg)	26.0
UV Lamp (1000 - 4800 mV)	2308.3	Lamp Ratio (30 - 120%)	97.6
Slope (1 ± 0.3)	1.876	BOX Temp. (Ambient ± 5°C)	33.1
Offset (< 250 mV)	12.6	HVPS (400 - 900 V)	571

Operator Comments: Filter change; EVALUATED THE 1500 AND 1600 HRS CONCENTRATIONS — RPA

Operator Signature: Kami Ballard

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	0915
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1015
Date: 6/06/2014			T100 Analyzer Range	500
	NIST Traceable Gas Conc.	40.4	Shelter Temperature (5-40 ° C)	23.6

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	0.00	0.144	0.032	Zero Drift ≤ ± 1.5 %	-0.056
400 ppb	400	400.708	0.562	Span Drift ≤ ± 10 %	400.795

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	-0.071	-0.099	± 2 ppb	No
400 ppb	401.145	402.055	± 2 ppb	No

Analyzer Parameters

Sample Flow (450 ± 45 cc/min)	447	Sample Press. (Ambient ± 2 in-Hg)	25.6
UV Lamp (1000 - 4800 mV)	2296.9	Lamp Ratio (30 - 120%)	97.3
Slope (1 ± 0.3)	1.872	BOX Temp. (Ambient ± 5°C)	32.4
Offset (< 250 mV)	12.9	HVPS (400 - 900 V)	571

Operator Comments:

The slope is above manufacturer recommendations.

Operator Signature:

AIR SCIENCES INC.
DENVER • PORTLAND

REVIEWED BY RPA DATE 6-9-14

AUDITED BY WR DATE 6-6-14

AIR SCIENCES INC
DENVER • PORTLAND

REVIEWED BY RPA DATE 6-27-14

AUDITED BY WR DATE 6-26-14

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	3:47
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	4:03
Date: 6/11/2014			T100 Analyzer Range	500
	NIST Traceable Gas Conc.	40.4	Shelter Temperature (5-40 ° C)	19.29

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	0.181	.373	Zero Drift ≤ ±1.5 %	No
400 ppb	400	39787	0.568	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	.181	.265	± 2 ppb	No
400 ppb	398 87	398.55	± 2 ppb	No

Analyzer Parameters

Sample Flow (450 ± 45 cc/min)	456	Sample Press. (Ambient ± 2 in-Hg)	25.9
UV Lamp (1000 - 4800 mV)	2292.6	Lamp Ratio (30 - 120%)	97%
Slope (1 ± 0.3)	1.872 ?	BOX Temp. (Ambient ± 5°C)	31.6
Offset (< 250 mV)	12.9	HVPS (400 - 900 V)	571

Operator Comments: Slope a little high ? - WR

Operator Signature: Kami Ballard

Invalidated the 1600 + 1700 hours for the verification_ WR.

AIR SCIENCES INC.
RPA · PORTLAND 6-27-14
REVIEWED BY DATE
WR 6-26-14
AUDITED BY DATE

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

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: Kami Ballard	Teledyne API T100 SO_2 Analyzer S/N	193	Calibration Start Time	14:05
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	14:20
Date: 6/20/2014			T100 Analyzer Range	500
	NIST Traceable Gas Conc.	40.4	Shelter Temperature (5-40 ° C)	23.07

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	0	-0.023	0.056	Zero Drift ≤ ±1.5 %	-0.007
400 ppb	400	399.814	.694	Span Drift ≤ ±10 %	400.386

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	-0.007	0.033	± 2 ppb	No
400 ppb	400.386	401.36	± 2 ppb	No

Analyzer Parameters

Sample Flow (450 ± 45 cc/min)	458	Sample Press. (Ambient ± 2 in-Hg)	26.1
UV Lamp (1000 - 4800 mV)	2274.4	Lamp Ratio (30 - 120%)	96.2
Slope (1 ± 0.3)	1.872	BOX Temp. (Ambient ± 5°C)	31.3
Offset (< 250 mV)	12.9	HVPS (400 - 900 V)	571

Operator Comments:

Operator Signature: Kami Ballard

Slope slightly above recomended manufacturer specifications_ WR

Invalidated the 1500 hour for the calibration. WR

AIR SCIENCES INC.
DENVER • PORTLAND

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

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

AIR SCIENCES INC.
DENVER • PORTLAND

Operator: K. Ballard	Teledyne API T100 SO_2 Analyzer S/N	193	Verification Start Time	11:12
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	11:27
Date: 6/26/2014			T100 Analyzer Range	500 PPB
	NIST Traceable Gas Conc.	~~40.1%~~ 40.4 WR	Shelter Temperature (5-40 ° C)	20.39

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	Ø	.360	.114	Zero Drift ≤ ±1.5 %	No
400 ppb	400	399.103	.381	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	.360	.381	± 2 ppb	No
400 ppb	399.103	400.022	± 2 ppb	No

Analyzer Parameters

Sample Flow (450 ± 45 cc/min)	458	Sample Press. (Ambient ± 2 in-Hg)	26.0
UV Lamp (1000 - 4800 mV)	2273.4	Lamp Ratio (30 - 120%)	96.2
Slope (1 ± 0.3)	1.872	BOX Temp. (Ambient ± 5°C)	31.1
Offset (< 250 mV)	12.9	HVPS (400 - 900 V)	571

Operator Comments: Slope slightly off.

Operator Signature: K. Ballard

Invalidated the 12:00 hour for the level 1 verification_WR

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WR 5-1-14
REVIEWED BY DATE
RPA 4-18-14
AUDITED BY DATE

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

AIR SCIENCES INC.
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Operator: R. ATTRIDGE	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	1030
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	1107
Date: 4-18-2014			T400 Analyzer Range	500 ppb
			Shelter Temperature (5-40 ° C)	21.5

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	-0.6	0.8	Zero Drift ≤ ± 1.5 %	NO
400 ppb	400	402.2	0.7	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	-0.6	-0.1	± 2 ppb	NO
400 ppb	401.6	402.2	± 2 ppb	NO

Analyzer Parameters

Sample Flow (550 ± 55 cc/min)	549	Sample Temp. (10 - 50 °C)	40.2
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	27.7
Slope (1 ± 0.15)	1.016	O3 Measure (2500 - 4800 mV)	3041.2
Offset (0.0 ± 5 PPB)	-2.6	O3 Reference (2500 - 4800 mV)	3042.2

Operator Comments:
- Filter Change Required

Operator Signature:

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WR 5-28-14
REVIEWED BY DATE
RPA 4·25·14
AUDITED BY DATE

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

AIR SCIENCES INC.
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Operator: R. ATTRIDGE	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	1433
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1457
Date: 4·24·14			T400 Analyzer Range	500 ppb
			Shelter Temperature (5-40 ° C)	23.6

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	0.0	-0.7	0.4	Zero Drift ≤ ±1.5 %	-0.1
400 ppb	400	399.8	0.6	Span Drift ≤ ±7 %	399.8

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	-0.1	0.3	± 2 ppb	NO
400 ppb	399.8	400.4	± 2 ppb	NO

Analyzer Parameters

Sample Flow (550 ± 55 cc/min)	547	Sample Temp. (10 - 50 °C)	39.9
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	27.5
Slope (1 ± 0.15)	1.012	O_3 Measure (2500 - 4800 mV)	3034.8
Offset (0.0 ± 5 PPB)	3.4	O_3 Reference (2500 - 4800 mV)	3036.2

Operator Comments:

NONE

Operator Signature:

Rory Attridge

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WR 5-14-14
REVIEWED BY DATE
RPA 5·13·14
AUDITED BY DATE

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

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Operator: Kami Ballard	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	11:55
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	12:18
Date: 5/08/2014			T400 Analyzer Range	500
			Shelter Temperature (5-40 ° C)	24.4

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	0.7	Zero Drift ≤ ±1.5 %	.4
400 ppb	401	400.9	0.5	Span Drift ≤ ±7 %	399.2

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	-0.5	0.17	± 2 ppb	No
400 ppb	400.9	401.08	± 2 ppb	

Analyzer Parameters

Sample Flow (550 ± 55 cc/min)	566	Sample Temp. (10 - 50 °C)	39.7
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	27.5
Slope (1 ± 0.15)	1.012	O_3 Measure (2500 - 4800 mV)	3022.8
Offset (0.0 ± 5 PPB)	3.4	O_3 Reference (2500 - 4800 mV)	3022.8

Operator Comments: INVALIDATED THE 1300 HRS CONCENTRATION — RPA

Operator Signature: Kami Ballard

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WR 5-28-14
REVIEWED BY RPA DATE 5.15.14
AUDITED BY DATE

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

AIR SCIENCES INC.
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Operator: R. ATTRIDGE	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	0723
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	0844
Date: 5·15·14			T400 Analyzer Range	500 ppb
			Shelter Temperature (5-40 ° C)	22.7

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	0.7	0.2	Zero Drift ≤ ± 1.5 %	NO
400 ppb	401	401.3	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	0.7	0.4	± 2 ppb	NO
400 ppb	401.3	402.6	± 2 ppb	NO

Analyzer Parameters

Sample Flow (550 ± 55 cc/min)	557	Sample Temp. (10 - 50 °C)	40.4
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	28.4
Slope (1 ± 0.15)	1.010	O_3 Measure (2500 - 4800 mV)	3013.4
Offset (0.0 ± 5 PPB)	4.1	O_3 Reference (2500 - 4800 mV)	3014.9

Operator Comments: 0800-0900 HRS CONCENTRATIONS SHALL BE INVALIDATED – RPA

Operator Signature: R Attridge

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

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REVIEWED BY	RPA	DATE	5-27-14
AUDITED BY	WR	DATE	5-23-14

Operator: B. Rucker	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	10:41
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	11:25
Date: 5-23-14			T400 Analyzer Range	0-500
			Shelter Temperature (5-40 ° C)	23.5

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	1.1	0.3	Zero Drift ≤ ± 1.5 %	-0.3
400 ppb	399	399.5	0.5	Span Drift ≤ ± 7 %	400.6

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	-0.3	0.33	± 2 ppb	NO
400 ppb	401.2	402.06	± 2 ppb	NO

Analyzer Parameters

Sample Flow (550 ± 55 cc/min)	550	Sample Temp. (10 - 50 °C)	39.8
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	27.9
Slope (1 ± 0.15)	1.012	O_3 Measure (2500 - 4800 mV)	3007.8
Offset (0.0 ± 5 PPB)	3.1	O_3 Reference (2500 - 4800 mV)	3008.6

Operator Comments:

Operator Signature:

INVALIDATED THE 11:00 AND 12:00 HOURS HOURLY CONCENTRATION DATA RESULTING FROM THE LEVEL 1 ZERO/SPAN CAL. — R. ATTRIDGE

AIR SCIENCES INC.
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WR 6-6-14
REVIEWED BY R. ATTRIDGE DATE 6-5-14
AUDITED BY DATE

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

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Operator: Kami	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	3:00
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	~1600
Date: 5/30/2014			T400 Analyzer Range	500 PPB
			Shelter Temperature (5-40 ° C)	20.28

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	Ø	-0.8	0.5	Zero Drift ≤ ±1.5 %	No
400 ppb	400	397.7	0.4	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	-0.8	0.15	± 2 ppb	No
400 ppb	397.7	398.32	± 2 ppb	No

Analyzer Parameters

Sample Flow (550 ± 55 cc/min)	566	Sample Temp. (10 - 50 °C)	39.1
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	26.7
Slope (1 ± 0.15)	1.012	O_3 Measure (2500 - 4800 mV)	3003.9
Offset (0.0 ± 5 PPB)	3.1	O_3 Reference (2500 - 4800 mV)	3003.6

Operator Comments: Operator Signature: Kami Ballard

~~Filter~~ Filter change completed; INVALIDATED THE 1600 Hrs concentration - RPA

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	1029
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	~~1239~~ 1139 WR
Date: 06/06/2014			T400 Analyzer Range	500
			Shelter Temperature (5-40 ° C)	20.51

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	0.0	-0.6	0.3	Zero Drift ≤ ± 1.5 %	0.5
400 ppb	400	399.3	0.4	Span Drift ≤ ± 7 %	401.8

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.600	1.050	± 2 ppb	No
400 ppb	401.800	401.940	± 2 ppb	No

Analyzer Parameters

Sample Flow (550 ± 55 cc/min)	557	Sample Temp. (10 - 50 °C)	40.4
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	29.8
Slope (1 ± 0.15)	1.011	O_3 Measure (2500 - 4800 mV)	2987.6
Offset (0.0 ± 5 PPB)	-3.8	O_3 Reference (2500 - 4800 mV)	2997.8

Operator Comments:

Offset below 0.0 ppb

Operator Signature:

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RPA	6-9-14
REVIEWED BY	DATE
WR	6-6-2014
AUDITED BY	DATE

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RPA	6-27-14
REVIEWED BY	DATE
WR	6-26-14
AUDITED BY	DATE

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

AIR SCIENCES INC.
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Operator: Kane Ballard	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	4:03
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	4:18
Date: 6/11/2014			T400 Analyzer Range	500
			Shelter Temperature (5-40 ° C)	20.22

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	Ø	-0.7	0.7	Zero Drift ≤ ± 1.5 %	No
400 ppb	400	399	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	-0.7	0.67	± 2 ppb	No
400 ppb	399.0	399.227	± 2 ppb	NO WR

Analyzer Parameters

Sample Flow (550 ± 55 cc/min)	568	Sample Temp. (10 - 50 °C)	38.4
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	26.4
Slope (1 ± 0.15)	1.011	O_3 Measure (2500 - 4800 mV)	2996.8
Offset (0.0 ± 5 PPB)	3.8	O_3 Reference (2500 - 4800 mV)	2996.6

Operator Comments:

Operator Signature: Kane Ballard

Invalidated the 1700 hour for the Verification _ WR

AIR SCIENCES INC.
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RPA 6-27-14
REVIEWED BY DATE
WR 6-26-14
SUBMITTED BY DATE

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

AIR SCIENCES INC.
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Operator: Karu Ballard	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	14:21
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	14:41
Date: 6/20/2014			T400 Analyzer Range	500
			Shelter Temperature (5-40 ° C)	19.73

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	0	-0.4	0.4	Zero Drift ≤ ±1.5 %	0.1
400 ppb	400	399.1	0.4	Span Drift ≤ ±7 %	400.3

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.1	0.76	± 2 ppb	No
400 ppb	400.3	400.8	± 2 ppb	No

Analyzer Parameters

Sample Flow (550 ± 55 cc/min)	568	Sample Temp. (10 - 50 °C)	38.2
Photo Lamp (58 ± 1 °C)	58	BOX Temp. (30 ± 20 °C)	26.6
Slope (1 ± 0.15)	1.010	O_3 Measure (2500 - 4800 mV)	2971.1
Offset (0.0 ± 5 PPB)	4.4	O_3 Reference (2500 - 4800 mV)	2981.5

Operator Comments:

Operator Signature: Karu Ballard

Invalidated the 1500 hour for the calibration_WR

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RPA 7-14-14
REVIEWED BY DATE

WR 7-16-14
AUDITED BY DATE

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

AIR SCIENCES INC.
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Operator: K. Bollard	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	11:28
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	WR
Date: 06/26/2014			T400 Analyzer Range	500
			Shelter Temperature (5-40 ° C)	19.69

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	Ø	.7	.4	Zero Drift ≤ ±1.5 %	NO
400 ppb	400	399.5	.4	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	.7	1.3	± 2 ppb	NO
400 ppb	399.5	400.088	± 2 ppb	NO

Analyzer Parameters

Sample Flow (550 ± 55 cc/min)	570	Sample Temp. (10 - 50 °C)	38.4
Photo Lamp (58 ± 1 °C)	58	BOX Temp. (30 ± 20 °C)	26.5
Slope (1 ± 0.15)	1.011	O_3 Measure (2500 - 4800 mV)	2974.4
Offset (0.0 ± 5 PPB)	4.4	O_3 Reference (2500 - 4800 mV)	2981.2

Operator Comments: Operator Signature: K. Bollard

Invalidated the 12:00 hour for the level 1 verification_WR

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WR 5-1-14
REVIEWED BY DATE
RPA 4-18-14
AUDITED BY DATE

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

AIR SCIENCES INC.
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Operator: R. ATTRIDGE	Teledyne API T200 NOx Analyzer S/N	197	Verification Start Time	0945
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	1027
Date: 4-18-2014			T200 Analyzer Range	500 ppb
	NIST Traceable Gas Conc.	40.1 ppm	Shelter Temperature (5-40 ° C)	21.5

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO2 Response	NOx Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0.0	-0.1	1.4	1.3	0.2	Zero Drift ≤ ± 1.5 %	NO
400 ppb	400	429.3	-2.7	426.9	0.9	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	-0.36	± 2 ppb	NO
	NO_2	1.4	NO_2	1.25		
	NO_x	1.3	NO_x	1.07		
400 ppb	NO	429.3	NO	428.8	± 2 ppb	NO
	NO_2	-2.7	NO_2	-2.9		
	NO_x	426.9	NO_x	425.6		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	494	Moly Temp. (315 ± 5°C)	314.4
Ozone Flow (80 ± 15 cc/min)	76	HVPS (400 - 900 V)	601
NOx Slope (1 ± 0.3)	1.3	NO Slope (1 ± 0.3)	1.3
NOx Offset (0 ± 100)	1.2	NO Offset (0 ± 100)	0.0

Operator Comments:

Filter Change Required —

Operator Signature:

Ray Attridge

AIR SCIENCES INC. 5-28-14
WR ~~RPA~~ 4-25-14
REVIEWED BY DATE
RPA 4-25-14
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	1305
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1405
Date: 4·24·14			T200 Analyzer Range	500 ppb
	NIST Traceable Gas Conc.	40.1 ppm NO	Shelter Temperature (5-40 ° C)	21.4

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	0.0	1.0	1.0	0.1	Zero Drift ≤ ±1.5 %	0.1
400 ppb	400	400.5	-1.6	398.8	0.5	Span Drift ≤ ±10 %	400.8

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	-0.0	NO	-0.2	± 2 ppb	NO
	NO_2	0.1	NO_2	-0.09		
	NO_x	0.1	NO_x	-0.1		
400 ppb	NO	400.7	NO	400.8	± 2 ppb	NO
	NO_2	0.1	NO_2	-0.03		
	NO_x	400.8	NO_x	400.9		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	493	Moly Temp. (315 ± 5°C)	314.5
Ozone Flow (80 ± 15 cc/min)	76	HVPS (400 - 900 V)	601
NOx Slope (1 ± 0.3)	1.3	NO Slope (1 ± 0.3)	1.3
NOx Offset (0 ± 100)	2.6	NO Offset (0 ± 100)	0.1

Operator Comments:
SPAN OF 400 PPB TOOK 30 MIN. TO BECOME STABLE.

Operator Signature:

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WR 5-12-14
REVIEWED BY DATE
RPA 5-13-14
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: Kami Ballard	Teledyne API T200 NOx Analyzer S/N	197	Calibration Start Time	10:55
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	11:31
Date: 05-08-2014			T200 Analyzer Range	500 PPB
	NIST Traceable Gas Conc.	40.4	Shelter Temperature (5-40 ° C)	24.43

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	-0.2	-0.0	-0.2	0.1	Zero Drift ≤ ±1.5 %	-0.6
400 ppb	400	382.6	0.7	383.1	0.9	Span Drift ≤ ±10 %	400

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	-0.56	± 2 ppb	No
	NO_2	-0.0	NO_2	-0.44		
	NO_x	-0.2	NO_x	-0.48		
400 ppb	NO	382.6	NO	382.2	± 2 ppb	No
	NO_2	0.7	NO_2	0.27		
	NO_x	383.1	NO_x	382.4		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	496	Moly Temp. (315 ± 5°C)	316.7
Ozone Flow (80 ± 15 cc/min)	76	HVPS (400 - 900 V)	600
NOx Slope (1 ± 0.3)	1.371	NO Slope (1 ± 0.3)	1.369
NOx Offset (0 ± 100)	2.6	NO Offset (0 ± 100)	0.1

Operator Comments:
* ANALYZER RESPONSE VALUES FOR REAL TIME COMPARISON REFLECT INITIAL RESPONSES AND NOT FINAL. — RPA
1200 Hrs NOX, NO2, AND NO CONCENTRATION INVALID - RPA

Operator Signature: Kami Ballard

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WR 5-14-14
REVIEWED BY DATE
RPA 5-13-14
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	1305
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1350
Date: 5-13-14			T200 Analyzer Range	500ppb
	NIST Traceable Gas Conc.	40.1 ppm	Shelter Temperature (5-40 ° C)	25.2

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	-0.0	-0.0	-0.0	0.0	Zero Drift ≤ ± 1.5 %	0.0
400 ppb	400	386.7	-0.2	386.7	0.2	Span Drift ≤ ± 10 %	395.2

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	-0.1	± 2 ppb	NO
	NO_2	0.0	NO_2	0.0		
	NO_x	0.0	NO_x	0.0		
400 ppb	NO	393.6	NO	393.0	± 2 ppb	NO
	NO_2	0.9	NO_2	0.6		
	NO_x	395.2	NO_x	395.3		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	496	Moly Temp. (315 ± 5°C)	316.4
Ozone Flow (80 ± 15 cc/min)	76	HVPS (400 - 900 V)	601
NOx Slope (1 ± 0.3)	1.465	NO Slope (1 ± 0.3)	1.458
NOx Offset (0 ± 100)	4.6	NO Offset (0 ± 100)	0.2

Operator Comments: NO_x AND NO Offset slightly Above TELEDYNE RECOMMENDATIONS

Operator Signature: R. Attridge

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WR 5-28-14
REVIEWED BY RPA DATE 5-15-14
AUDITED BY DATE

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

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Operator: R. ATTRIDGE	Teledyne API T200 NOx Analyzer S/N	197	Verification Start Time	0730 ~~0725~~
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	0811
Date: 5·15·14			T200 Analyzer Range	500ppb
	NIST Traceable Gas Conc.	40.1 ppm	Shelter Temperature (5-40 ° C)	22.0

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	0.0	0.1	0.1	0.4	Zero Drift ≤ ±1.5 %	NO
400 ppb	400	396.5	0.3	396.7	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	0.0	NO	-0.2	± 2 ppb	NO
	NO_2	0.1	NO_2	-0.06		
	NO_x	0.1	NO_x	0.01		
400 ppb	NO	396.5	NO	396.4	± 2 ppb	NO
	NO_2	0.3	NO_2	-0.18		
	NO_x	396.7	NO_x	396.3		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	490	Moly Temp. (315 ± 5°C)	316.2
Ozone Flow (80 ± 15 cc/min)	76	HVPS (400 - 900 V)	601
NOx Slope (1 ± 0.3)	1.4	NO Slope (1 ± 0.3)	1.4
NOx Offset (0 ± 100)	3.6	NO Offset (0 ± 100)	-0.3

Operator Comments: 0800 - 0900 Hrs concentrations shall be invalidated - RPA

Operator Signature: R Attridge

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

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REVIEWED BY RPA DATE 5-27-14
AUDITED BY WR DATE 5-23-14

Operator: B. Rucker	Teledyne API T200 NOx Analyzer S/N	197	Calibration Start Time	8:45	(MST)
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	9:55	(MST)
Date: 5-23-2014			T200 Analyzer Range	0-500	
	NIST Traceable Gas Conc.	40.1	Shelter Temperature (5-40 ° C)	23.73	

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	-0.2	1.7	1.5	0.2	Zero Drift ≤ ± 1.5 %	0.1
400 ppb	400	404.7	-2.0	402.8	0.7	Span Drift ≤ ± 10 %	400.4

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	0.08	± 2 ppb	NO
	NO_2	-0.1	NO_2	-0.21		
	NO_x	0.1	NO_x	-0.06		
400 ppb	NO	399.8	NO	399.65	± 2 ppb	NO
	NO_2	0.8	NO_2	0.18		
	NO_x	399.8	NO_x	399.70		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	485	Moly Temp. (315 ± 5°C)	315.0
Ozone Flow (80 ± 15 cc/min)	76	HVPS (400 - 900 V)	601
NOx Slope (1 ± 0.3)	1.498	NO Slope (1 ± 0.3)	1.486
NOx Offset (0 ± 100)	5.2	NO Offset (0 ± 100)	0.1

Operator Comments:

Slopes slightly above 1.3, WR

Operator Signature:

INVALIDATED THE 0900 AND 1000 HOURS CONCENTRATION RESULTING FROM LEVEL 1 ZERO/SPAN CAL PROCEDURES — R. ATTREDGE

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WR 6-6-14
REVIEWED BY R. ATTRINGE DATE 6-5-14
AUDITED BY DATE

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

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Operator: Kami	Teledyne API T200 NOx Analyzer S/N	197	Verification Start Time	2:24
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	2:39
Date: 05/30/2014			T200 Analyzer Range	500PPB
	NIST Traceable Gas Conc.	40.1%	Shelter Temperature (5-40 ° C)	25.01

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	3.3	3.5	0.5	Zero Drift ≤ ±1.5 %	No
400 ppb	400	385.6	-2.1	383.5	0.4	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	.033	± 2 ppb	No
	NO_2	3.3	NO_2	3.34		
	NO_x	3.5	NO_x	3.161		
400 ppb	NO	385.6	NO	385.49	± 2 ppb	No
	NO_2	-2.1	NO_2	-2.35		
	NO_x	383.5	NO_x	383.81		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	503	Moly Temp. (315 ± 5°C)	315.3
Ozone Flow (80 ± 15 cc/min)	76	HVPS (400 - 900 V)	601
NOx Slope (1 ± 0.3)	1.498	NO Slope (1 ± 0.3)	1.486
NOx Offset (0 ± 100)	5.2	NO Offset (0 ± 100)	0.1

Operator Comments: Filter change; INVALIDATED THE 1500 HRS NO, NO2 AND NOx CONCENTRATIONS — RAA

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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Operator: W.Rucker	Teledyne API T200 NOx Analyzer S/N	197	Calibration Start Time	1158
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1229
Date: 06/06/2014			T200 Analyzer Range	500
	NIST Traceable Gas Conc.	40.1	Shelter Temperature (5-40 ° C)	19.83

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	0.0	-1.1	-1.0	0.1	Zero Drift ≤ ± 1.5 %	-0.7
400 ppb	400	368.4	0.5	369.4	0.2	Span Drift ≤ ± 10 %	400.4

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	-0.100	NO	-0.09	± 2 ppb	No
	NO_2	0.000	NO_2	-0.33		
	NO_x	-0.200	NO_x	-0.78		
400 ppb	NO	400.000	NO	400.206	± 2 ppb	No
	NO_2	-0.200	NO_2	-0.41		
	NO_x	400.100	NO_x	400.52		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	490	Moly Temp. (315 ± 5°C)	315.4
Ozone Flow (80 ± 15 cc/min)	76	HVPS (400 - 900 V)	601
NOx Slope (1 ± 0.3)	1.618	NO Slope (1 ± 0.3)	1.614
NOx Offset (0 ± 100)	3.9	NO Offset (0 ± 100)	0.0

Operator Comments:

Slopes are slightly above manufacturer recommendations.

Operator Signature:

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REVIEWED BY RPA DATE 6-9-14

AUDITED BY WR DATE 6-06-2014

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REVIEWED BY WR DATE 6-26-14
AUDITED BY DATE 6-27-14

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

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Operator: K. Ballard	Teledyne API T200 NOx Analyzer S/N	197	Verification Start Time	3:26
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	3:47
Date: 6/11/2014			T200 Analyzer Range	500 PPB
	NIST Traceable Gas Conc.	40.1	Shelter Temperature (5-40 ° C)	20.27

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	Ø	0.1	5.5	5.7	0.7	Zero Drift ≤ ±1.5 %	No
400 ppb	400	399.0	-0.7	398.2	0.6	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	-0.13	± 2 ppb	No
	NO_2	5.5	NO_2	5.82		
	NO_x	5.7	NO_x	5.83		
400 ppb	NO	399.0	NO	399.29	± 2 ppb	No
	NO_2	-0.7	NO_2	-0.77		
	NO_x	398.2	NO_x	398.60		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	495	Moly Temp. (315 ± 5°C)	315.8
Ozone Flow (80 ± 15 cc/min)	76	HVPS (400 - 900 V)	601
NOx Slope (1 ± 0.3)	1.618	NO Slope (1 ± 0.3)	1.614 ≥(±.6)
NOx Offset (0 ± 100)	3.9	NO Offset (0 ± 100)	0

Operator Comments: Check NOx & NO Slope. Slightly outof range (KB) WR

Operator Signature: Kara Ballard

Invalidated the 1600 hour for the verification WR

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REVIEWED BY KPA DATE 6-27-14
AUDITED BY WR DATE 6-26-14

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

AIR SCIENCES INC.
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Operator: Kami Ballard	Teledyne API T200 NOx Analyzer S/N	197	Calibration Start Time	13:30
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	14:04
Date: 06/20/2014			T200 Analyzer Range	500
	NIST Traceable Gas Conc.	40.1	Shelter Temperature (5-40 ° C)	20.2°

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	Ø	0.0	2.8	2.8	.3	Zero Drift ≤ ±1.5 %	2.4
400 ppb	400	389.0	0.8	389.7	0.4	Span Drift ≤ ±10 %	399.1

Real time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	0.1	NO	-0.18	± 2 ppb	No
	NO_2	2.3	NO_2	2.15		
	NO_x	2.4	NO_x	0.49		
400 ppb	NO	398.6	NO	398.83	± 2 ppb	No
	NO_2	0.6	NO_2	0.54		
	NO_x	399.1	NO_x	400.04		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	493	Moly Temp. (315 ± 5°C)	315.1
Ozone Flow (80 ± 15 cc/min)	76	HVPS (400 - 900 V)	601
NOx Slope (1 ± 0.3)	1.618	NO Slope (1 ± 0.3)	1.614
NOx Offset (0 ± 100)	3.9	NO Offset (0 ± 100)	0.0

Operator Comments:

Operator Signature: Kami Ballard

Slopes are slightly above manufacturer recomendations. WR

Invalidated the 14:00 + 1500 hour for the calibration, WR

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

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	10:52
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	11:10
Date: 4/20/2014			T200 Analyzer Range	500PPB
	NIST Traceable Gas Conc.	~~40.4~~ 40.1 WR	Shelter Temperature (5-40 ° C)	22.99

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	-0.0	2.9	2.9	0.4	Zero Drift ≤ ±1.5 %	No
400 ppb	400	396.1	-2.1	393.9	0.4	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	-0.0	NO	-0.2	± 2 ppb	No
	NO_2	2.9	NO_2	2.6		
	NO_x	2.9	NO_x	2.7		
400 ppb	NO	396.1	NO	395.78	± 2 ppb	No
	NO_2	-2.1	NO_2	-1.89		
	NO_x	393.9	NO_x	394.30		

Analyzer Parameters

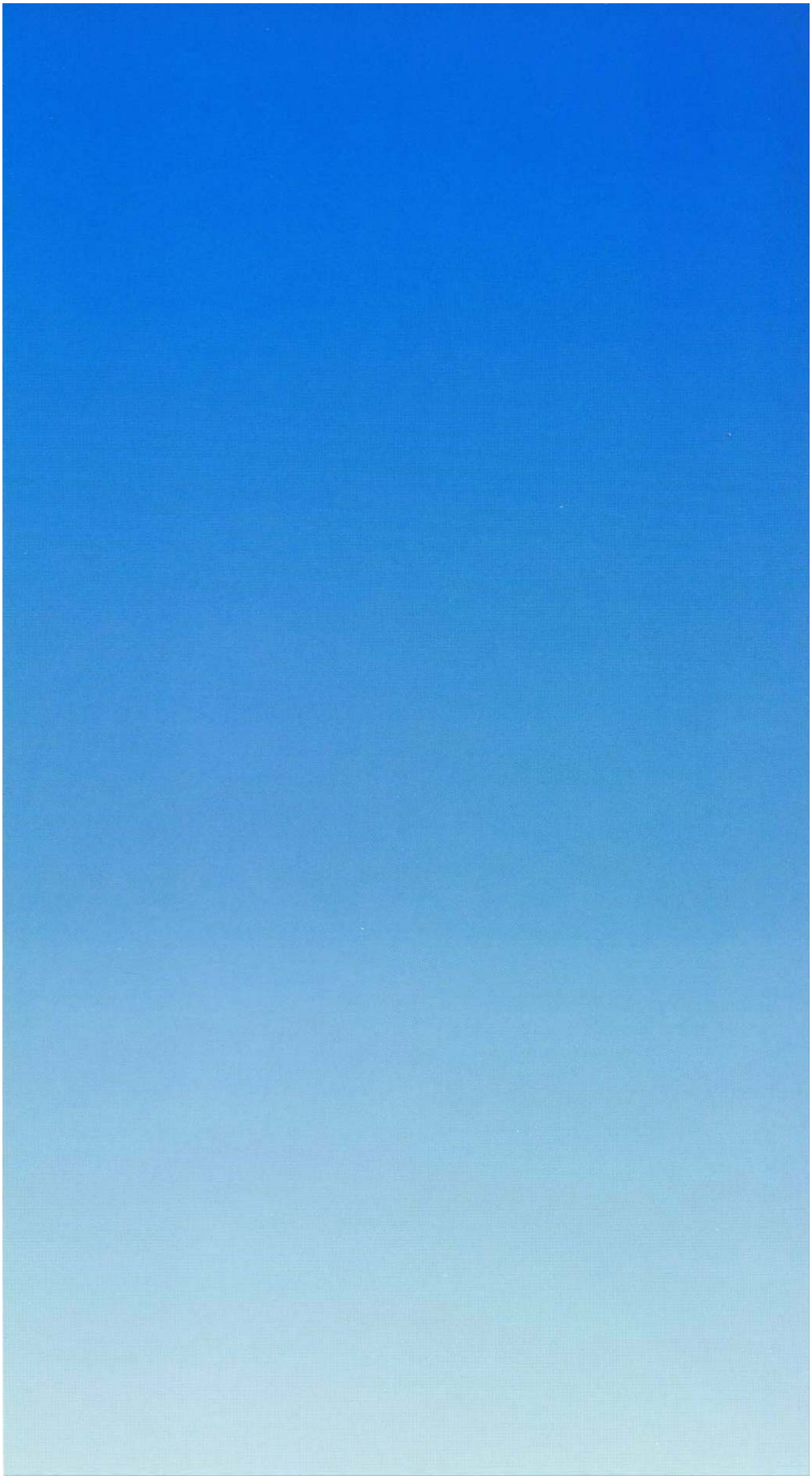
Sample Flow (500 ± 50 cc/min)	497	Moly Temp. (315 ± 5°C)	315.5
Ozone Flow (80 ± 15 cc/min)	76	HVPS (400 - 900 V)	601
NOx Slope (1 ± 0.3)	1.1662	NO Slope (1 ± 0.3)	1.1662
NOx Offset (0 ± 100)	3.9	NO Offset (0 ± 100)	0.0

Operator Comments: Slope slightly off.

Operator Signature: Kami Ballard

Invalidated the 11:00 & 12:00 hours for the level 1 verification _WR

Appendix I: Audits and Calibrations



Air Quality Calibration Report East Plant Monitoring Station

PREPARED FOR:
RESOLUTION COPPER MINING

PREPARED BY:
WILLIAM RUCKER
AIR SCIENCES INC.

PROJECT 262-5
APRIL 2014

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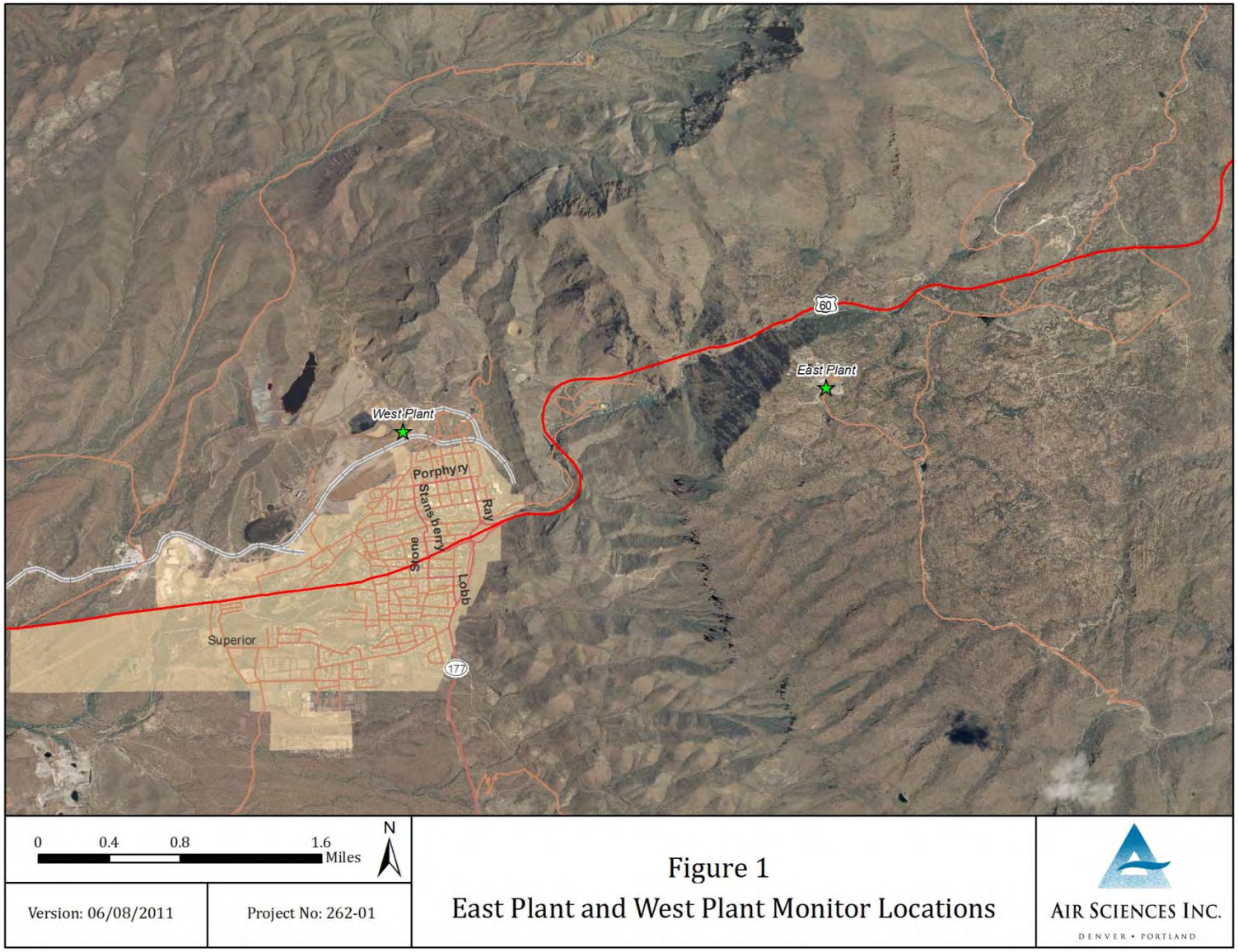
Appendix A: Calibration Forms

1.0 INTRODUCTION

On April 9 through April 11, 2014, the air quality instrumentation was calibrated at the Resolution Copper East Plant, near Superior, AZ. The East Plant monitoring station is operated by the Resolution Copper Mining Company and is located approximately two miles east of the West operation plant (see Figure 1). The purpose of this document is to provide a brief synopsis of the air quality monitoring system and of the calibration procedures for the particulate and ambient gas instrumentation at the East plant site. The calibration was conducted in accordance with the following guideline documents:

- EPA-454/B-13-003, Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Quality Monitoring Program, May 2013
- Transfer Standards for the calibration of Ambient Air Monitoring Analyzers for Ozone (EPA-454/B-13-004, October 2013)
- Code of Federal Regulations (40 CFR Parts 50 and 58)

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



2.0 SYSTEM DESCRIPTION

The parameters calibrated at the East Plant monitoring site include particulate matter less than 10 and 2.5 microns in diameter (PM_{10} & $PM_{2.5}$), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), and ozone (O_3). The analyzers are housed in a 60-square-foot climate controlled trailer. Inlet heights are listed in Table 1.

Table 1. Sensors, Instruments and Inlet Heights

Parameter	Approximate Height (meters)
PM_{10}	3
$PM_{2.5}$	3
NO_2	3
SO_2	3
O_3	3

Monitored data parameters are recorded via analog inputs on two Campbell Scientific CR3000 dataloggers, each powered independently by either DC solar or by locally supplied AC line power.

3.0 CALIBRATION METHODOLOGY

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

3.1 Particulate Matter Calibration Procedures

The BAM 1020 PM_{10} and BAM 1020 $PM_{2.5}$ monitors were assessed and calibrated by comparing and then adjusting the temperature, barometric pressure, and internal flow to a certified deltaCal Volumetric Air Flow Calibrator. All required maintenance was performed on the instrument to assure optimal operations. The temperature, barometric pressure, and flow output readings from the deltaCal and the instrument were recorded on a standardized form.

3.1.1 Particulate Matter 2.5 Zero Filter Calibration Procedures

The background (BKGD) zero correction is determined by running the unit for 72 hours days with a HEPA zero filter installed on the inlet so no particulate enters the instrument. The concentration data over this time are averaged, and the BKGD value is the negative of this average.

3.2 Ambient Gas Calibration Procedures

Calibration of the Teledyne T100 SO_2 analyzer involved a Multi-Point Calibration (MPC) and an Analog to Digital (A2D) verification. The MPC was performed by using the T700 calibrator to dilute NIST-traceable EPA-protocol calibration gas with a clean zero-air source to calibrate the T100 analyzer at zero, and at five points within the instrument range—typically a points from 100 to 500 PPB of SO_2. An A2D verification check of the T100 instrument response against the CR3000 datalogger response was performed to guarantee accurate representation of the digital scale from the analog output signals.

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

Calibration of the Teledyne T400 O_3 analyzer involved an MPC, and an A2D verification. The SPC was performed by using the T700 calibrator to generate O_3 gas to calibrate the T400 analyzer at zero, and at a single point within the instrument range—typically a point from 100 to 500 PPB of O_3. An MPA was performed using a 700E transfer standard calibrator to evaluate the calibration by verifying the analyzer's response to zero and five upscale spans. After the MPA, a verification check of the T400 instrument against the CR3000 datalogger response was performed to guarantee accurate representation of the digital scale from the analog output signals.

4.0 RESULTS AND RECOMMENDATIONS

A 72 hour zero filter calibration the Met One BAM 1020 $PM_{2.5}$ particulate monitor completed on April 10, 2014.

The Teledyne T-700 primary standard, serial number 816 was taken out of service and replaced by the Teledyne T-700, serial number 191. Prior to replacing the primary T-700 a performance audit of all the gaseous analyzer monitoring equipment was performed. The installation of the T-700, serial number 191 was followed by a multipoint calibration.

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

Appendix A: Calibration Forms

East Plant BAM-1020 PM_{10} Audit Sheet

Model:	**BAM-1020**	**Serial Number:**	M8714
Audit Date:	04/09/14	**Audited By:**	R. Attridge
Audit Time:	0730 hrs		

Firmware: 3236-06 V3.6.3

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

Leak Check Value:	as found:	0.5 LPM	Should Be: <1.0	as left:	0.3 LPM	Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	18.4	16.7	as left:	28.3	28.5	Adjusted	X
Barometric Pressure (mmHg):	as found:	653	656	as left:	657	657	Adjusted	X
Flow Rate (15.0 LPM):	as found:	15.1	15.4	as left:	15.0	14.9	Adjusted	
Flow Rate (18.4 LPM):	as found:	18.3	18.6	as left:	18.4	18.3	Adjusted	
Flow Rate (16.7 LPM):	as found:	16.7	16.9	as left:	16.7	16.5	Adjusted	

Audit Notes: **Serviced the nozzle and nozzle assembly.**

Mechanical Audits

Pump muffler unclogged:	As found	X	As left	X	PM10 particle trap clean:	As found		As left	X	N/A	
Sample nozzle clean:	As found		As left	X	PM10 drip jar empty:	As found		As left	X	N/A	
Tape support vane clean:	As found		As left	X	PM10 bug screen clear:	As found		As left	X	N/A	
Capstan shaft clean:	As found		As left	X	PM2.5 particle trap clean:	As found		As left		N/A	X
Rubber pinch rollers clean:	As found		As left	X	Inlet tube water-tight seal OK:	As found	X	As left	X		
Chassis ground wire installed:	As found	X	As left	X	Inlet tube perpendicular to BAM:	As found	X	As left	X		

Signature: Roy Attr 4-21-14

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

Model:	**BAM-1020**	**Serial Number:**	M6466
Audit Date:	4/10/2014	**Audited By:**	R. Attridge
Audit Time:	12:30		

Firmware: 3236-06 V3.6.3

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

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

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	27.5	26.2	as left:	28.4	27.6	Adjusted	
Barometric Pressure (mmHg):	as found:	654	655	as left:	655	655	Adjusted	
Flow Rate (15.0 LPM):	as found:	15.0	14.9	as left:	15.1	14.9	Adjusted	
Flow Rate (18.4 LPM):	as found:	18.4	18.1	as left:	18.4	18.23	Adjusted	X
Flow Rate (16.7 LPM):	as found:	16.7	16.6	as left:	16.7	16.6	Adjusted	

Audit Notes: **Serviced and cleaned the entire nozzle and nozzle assembly.**

Mechanical Audits

Pump muffler unclogged:	As found	X	As left	X	PM10 particle trap clean:	As found		As left	X	N/A
Sample nozzle clean:	As found		As left	X	PM10 drip jar empty:	As found		As left	X	N/A
Tape support vane clean:	As found		As left	X	PM10 bug screen clear:	As found	X	As left	X	N/A
Capstan shaft clean:	As found		As left	X	PM2.5 particle trap clean:	As found		As left	X	N/A
Rubber pinch rollers clean:	As found		As left	X	Inlet tube water-tight seal OK:	As found		As left	X	
Chassis ground wire installed:	As found	X	As left	X	Inlet tube perpendicular to BAM:	As found	X	As left	x	

Signature: 4-21-14

Resolution Copper Mining
East Plant Monitoring Station
SO_2 Multipoint Audit

AIR SCIENCES INC.

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Operator: R. Attridge	Teledyne API T100 SO_2 Analyzer S/N	193	Multipoint Start Time	16:51
	Teledyne API T700 Transfer Standard Dilution Calibrator S/N and Calibration Date	191 03/05/14	Multipoint Stop Time	17:30
Date: 04/09/2014			T100 Analyzer Range	500 PPB
	NIST Traceable Gas Conc.	40.0	Shelter Temperature (5-40 ° C)	20.7

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	-0.7	-1.9	Pass, <2% FS
100	101	94.2	94.3	Pass, 0.1%
200	200	186.3	188.5	Pass, 1.2%
300	300	281.3	283.7	Pass, 0.9%
400	400	377.7	379.0	Pass, 0.3%
500	500	475.7	473.2	Pass, 0.5%

Best Fit Line (BFL)

$Y = 0.9522x + -1.9041$

$R^2 = 0.99988$

Analyzer Parameters

Sample Flow (450 ± 45 cc/min)	450	Sample Press. (Ambient ± 2 in-Hg)	25.6
UV Lamp (1000 - 4800 mV)	2365.0	Lamp Ratio (30 - 120%)	66.0%
Slope (1 ± 0.3)	1.288	BOX Temp. (Ambient ± 5°C)	29.7
Offset (< 250 mV)	19.2	HVPS (400 - 900 V)	571

Operator Comments:

Operator Signature: R Attridge

Resolution Copper Mining
East Plant Monitoring Station
O_3 Multipoint Audit

AIR SCIENCES INC.

DENVER • PORTLAND

Operator: R. Attridge	Teledyne API T400 O_3 Analyzer S/N	224	Multipoint Start Time	15:00
	Teledyne API T700 Transfer Standard Dilution Calibrator S/N	191	Multipoint Stop Time	15:21
Date: 04/09/2014	Calibration Date	03/05/14	T400 Analyzer Range	500 PPB
			Shelter Temperature (5-40 ° C)	20.7

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	0.0	-0.5	Pass, <2% FS
100	100.0	99.8	100.6	Pass, 0.8%
200	200.0	201.4	201.8	Pass, 0.2%
300	300.0	302.0	303.0	Pass, 0.3%
400	400.0	403.3	404.1	Pass, 0.2%
500	500.00.0	505.500	504.3	Pass, 0.2%

Best Fit Line (BFL)

$Y = 1.0117x + -0.5423$

$R^2 = 0.99998$

Analyzer Parameters

Sample Flow (550 ± 55 cc/min)	556	Sample Temp. (10 - 50 °C)	*37.8*
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	*25.7*
Slope (1 ± 0.15)	1.023	O3 Measure (2500 - 4800 mV)	*3054.4*
Offset (0.0 ± 5 PPB)	3.3	O3 Reference (2500 - 4800 mV)	*3055.8*

Operator Comments:

Operator Signature: R Attridge

Resolution Copper Mining
East Plant Monitoring Station
NOx Multipoint Audit

AIR SCIENCES INC.

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Operator:	Teledyne API T200 NOx Analyzer S/N	197	Multipoint Start Time	15:21
Rory Attridge	Teledyne API T700 Transfer Standard Dilution Calibrator S/N and Calibration Date	191	Multipoint Stop Time	16:50
Date:		03/05/14	T200 Analyzer Range	500 PPB
04/09/2014	NIST Traceable Gas Conc.	40.9	Shelter Temperature (5-40 ° C)	20.6

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	-0.7	0.2	-0.5	-2.4	Pass, 0 ± 5
100	101	95.5	-0.5	95.0	96.4	Pass, 1.5%
200	200	190.7	1.5	192.1	193.3	Pass, 0.6%
300	300	290.7	-0.1	290.9	291.2	Pass, 0.1%
400	400	386.8	2.3	389.2	389.1	Pass, 0%
500	500	486.4	2.0	487.8	487.0	Pass, 0.2%

Best Fit Line (BFL)

Y= 1.9788x + -2.4471

R^2 = 0.99995

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	495	Moly Temp. (315 ± 5°C)	*314.5*
Ozone Flow (80 ± 15 cc/min)	76	HVPS (400 - 900 V)	*600*
NOx Slope (1 ± 0.3)	1.404	NO Slope (1 ± 0.3)	*1.395*
NOx Offset (0 ± 100)	3.6	NO Offset (0 ± 100)	*0.3*

Operator Comments:

Operator Signature: R Attridge

Resolution Copper Mining
East Plant Monitoring Station
SO_2 Multipoint Calibration

AIR SCIENCES INC.

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Operator: W.Rucker	Teledyne API T100 SO_2 Analyzer S/N	193	Multipoint Start Time	21:27
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Multipoint Stop Time	23:00
Date: 04/11/2014			T100 Analyzer Range	500 PPB
	NIST Traceable Gas Conc.	40.4	Shelter Temperature (5-40 ° C)	20.53

Multipoint Calibration (Quarterly, or as needed):

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

Primary Standard:

Target (PPB)	Actual Generated SO_2 (PPB)	SO_2 Response (PPB)	Best Fit Line (PPB)	Acceptable Criteria (± 2% from BFL)
Zero Air	0	-0.117	-0.521	Pass, <2% FS
100	100	98.249	99.530	Pass, 1.3%
200	200	199.798	199.582	Pass, 0.1%
300	300	299.911	299.633	Pass, 0.1%
400	400	397.126	399.684	Pass, 0.6%
500	501	502.612	500.736	Pass, 0.4%

Best Fit Line (BFL)

$Y = 1.0005x + -0.5211$

$R^2 = 0.99993$

Analyzer Parameters

Sample Flow (450 ± 45 cc/min)	448	Sample Press. (Ambient ± 2 in-Hg)	25.7
UV Lamp (1000 - 4800 mV)	2358.3	Lamp Ratio (30 - 120%)	99.8
Slope (1 ± 0.3)	2.013	BOX Temp. (Ambient ± 5°C)	33.6
Offset (< 250 mV)	12.8	HVPS (400 - 900 V)	571

Operator Comments:

Operator Signature:

Resolution Copper Mining
East Plant Monitoring Station
O_3 Multipoint Calibration

AIR SCIENCES INC.

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Operator: W.Rucker	Teledyne API T400 O_3 Analyzer S/N	224	Multipoint Start Time	21:30
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Multipoint Stop Time	22:30
Date: 04/09/2014			T400 Analyzer Range	500 PPB
			Shelter Temperature (5-40 ° C)	24.3

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	0.4	0.0	Pass, <2% FS
100	100	100.7	100.4	Pass, 0.3%
200	201	201.4	201.9	Pass, 0.2%
300	301	301.6	302.3	Pass, 0.2%
400	4000.4	401.2	401.8	Pass, 0.1%
500	500	503.1	502.2	Pass, 0.2%

Best Fit Line (BFL)

$Y = 1.0044x + -0.0031$

$R^2 = 0.99999$

Analyzer Parameters

Sample Flow (550 ± 55 cc/min)	560	Sample Temp. (10 - 50 °C)	*39.2*
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20 °C)	*26.8*
Slope (1 ± 0.15)	1.023	O3 Measure (2500 - 4800 mV)	*3054.8*
Offset (0.0 ± 5 PPB)	3.3	O3 Reference (2500 - 4800 mV)	*3057.0*

Operator Comments:

Operator Signature:

Resolution Copper Mining
East Plant Monitoring Station
NOx Multipoint Calibration

AIR SCIENCES INC.

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Operator: W.Rucker	Teledyne API T200 NOx Analyzer S/N	197	Multipoint Start Time	18:12
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Multipoint Stop Time	21:27
Date: 04/11/2014			T200 Analyzer Range	500 PPB
	NIST Traceable Gas Conc.	40.1	Shelter Temperature (5-40 ° C)	20.7

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	0.1	0.4	-1.1	-1.1	Pass, 0 ± 5
100	101	101.4	0.1	101.5	100.4	Pass, 1.1%
200	200	201.8	-1.0	200.9	199.8	Pass, 0.6%
300	300	299.0	-0.9	298.0	300.2	Pass, 0.7%
400	400	399.8	-0.5	397.3	400.6	Pass, 0.8%
500	500	502.4	1.8	504.4	501.1	Pass, 0.7%

Best Fit Line (BFL)

$Y = 1.0043x + -1.0747$

$R^2 = 0.99983$

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	493	Moly Temp. (315 ± 5°C)	*314.4*
Ozone Flow (80 ± 15 cc/min)	76	HVPS (400 - 900 V)	*601*
NOx Slope (1 ± 0.3)	1.363	NO Slope (1 ± 0.3)	*1.372*
NOx Offset (0 ± 100)	1.2	NO Offset (0 ± 100)	*0.0*

Operator Comments:

Operator Signature:

BIG BIZ

AIR LIQUIDE Air Liquide America Specialty Gases LLC Scott™

RATA CLASS

Guaranteed +/- 1% Accuracy

500 WEAVER PARK RD, LONGMONT, CO 80501 Phone: 888-253-1635 Fax: 303-772-7673

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory - PGVP Vendor ID: A42014
AIR LIQUIDE AMERICA SPECIALTY GASES LLC
500 WEAVER PARK RD
LONGMONT, CO 80501

P.O. No.: 262-7-04
Document # : 54338594-001

Customer
RESOLUTION COPPER COMPANY
KAMI BALLARD
102 MAGMA HEIGHTS
SUPERIOR AZ 85173
US

ANALYTICAL INFORMATION Gas Type : NO,SO2,BALN

This certification was performed according to EPA Traceability Protocol For Assay & Certification of Gaseous Calibration Standards; Procedure G-1. EPA/600/R-12/531; May 2012. Do not use this standard if pressure is less than 100 psig.

Cylinder Number: ALM004331 **Certification Date:** 14Mar2014 **Exp. Date:** 15Mar2017
Cylinder Pressure: 1900 PSIG **Batch No:** LGM0113884

COMPONENT	CERTIFIED CONCENTRATION (Moles)		ACCURACY (ABSOLUTE / RELATIVE)
NITRIC OXIDE	40.1	PPM	0.3 PPM / 0.8 %
SULFUR DIOXIDE	40.4	PPM	0.4 PPM / 1.0 %
NITROGEN - OXYGEN FREE		BALANCE	
TOTAL OXIDES OF NITROGEN	40.2	PPM	Reference Value Only

TRACEABILITY

REFERENCE STANDARD

COMPONENT	CONCENTRATION		UNCERTAINTY		CYLINDER	TYPE/SRM SAMPLE	EXP. DATE
NITRIC OXIDE	49.4600	PPM	0.4000	PPM	KAL003885	NTRM 1683/051711	15Mar2018
SULFUR DIOXIDE	49.6700	PPM	0.5000	PPM	KAL003244	NTRM 1693	20Aug2016

ANALYTICAL METHOD

1st Analysis: 07Mar2014

COMPONENT	INSTRUMENT	ANALYTICAL/PRINCIPLE	CALIBRATED	CONCENTRATION
NITRIC OXIDE	MKS ONLINE/2030/0929062	FTIR	07Mar2014	40.06 PPM
SULFUR DIOXIDE	MKS ONLINE/2030/0929062	FTIR	27Feb2014	40.46 PPM

2nd Analysis: 14Mar2014

COMPONENT	INSTRUMENT	ANALYTICAL/PRINCIPLE	CALIBRATED	CONCENTRATION
NITRIC OXIDE	MKS ONLINE/2030/0929062	FTIR	07Mar2014	40.04 PPM
SULFUR DIOXIDE	MKS ONLINE/2030/0929062	FTIR	27Feb2014	40.42 PPM

APPROVED BY: SW
JON WITZAK

SMALL BTL

AIR LIQUIDE Air Liquide America Specialty Gases LLC Scott™

RATA CLASS

Guaranteed +/- 1% Accuracy

500 WEAVER PARK RD, LONGMONT, CO 80501 Phone: 888-253-1635 Fax: 303-772-7673

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory - PGVP Vendor ID: A42014
AIR LIQUIDE AMERICA SPECIALTY GASES LLC
500 WEAVER PARK RD
LONGMONT, CO 80501

P.O. No.: 262-7-04
Document # : 54338594-002

Customer
RESOLUTION COPPER COMPANY
KAMI BALLARD
102 MAGMA HEIGHTS
SUPERIOR AZ 85173
US

ANALYTICAL INFORMATION Gas Type : NO,SO2,BALN

This certification was performed according to EPA Traceability Protocol For Assay & Certification of Gaseous Calibration Standards; Procedure G-1. EPA/600/R-12/531; May 2012. Do not use this standard if pressure is less than 100 psig.

Cylinder Number: CAL016168 **Certification Date:** 17Mar2014 **Exp. Date:** 18Mar2017
Cylinder Pressure: 1900 PSIG **Batch No:** LGM0113934

COMPONENT	CERTIFIED CONCENTRATION (Moles)		ACCURACY (ABSOLUTE / RELATIVE)
NITRIC OXIDE	40.9	PPM	0.3 PPM / 0.7 %
SULFUR DIOXIDE	40.0	PPM	0.4 PPM / 1.0 %
NITROGEN - OXYGEN FREE		BALANCE	
TOTAL OXIDES OF NITROGEN	41.0	PPM	Reference Value Only

TRACEABILITY

REFERENCE STANDARD

COMPONENT	CONCENTRATION		UNCERTAINTY		CYLINDER	TYPE/SRM SAMPLE	EXP. DATE
NITRIC OXIDE	49.4600	PPM	0.4000	PPM	KAL003885	NTRM 1683/051711	15Mar2018
SULFUR DIOXIDE	49.6700	PPM	0.5000	PPM	KAL003244	NTRM 1693	20Aug2016

ANALYTICAL METHOD

1st Analysis: 10Mar2014

COMPONENT	INSTRUMENT	ANALYTICAL/PRINCIPLE	CALIBRATED	CONCENTRATION
NITRIC OXIDE	MKS ONLINE/2030/0929062	FTIR	07Mar2014	40.87 PPM
SULFUR DIOXIDE	MKS ONLINE/2030/0929062	FTIR	27Feb2014	39.94 PPM

2nd Analysis: 17Mar2014

COMPONENT	INSTRUMENT	ANALYTICAL/PRINCIPLE	CALIBRATED	CONCENTRATION
NITRIC OXIDE	MKS ONLINE/2030/0929062	FTIR	07Mar2014	40.89 PPM
SULFUR DIOXIDE	MKS ONLINE/2030/0929062	FTIR	27Feb2014	39.95 PPM

APPROVED BY: JW
JON WITZAK

Air Quality Calibration Report West Plant Monitoring Station

PREPARED FOR:

RESOLUTION COPPER MINING

PREPARED BY:
WILLIAM RUCKER
AIR SCIENCES INC.

PROJECT 262-5
APRIL 2014

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Appendix A: Calibration Forms

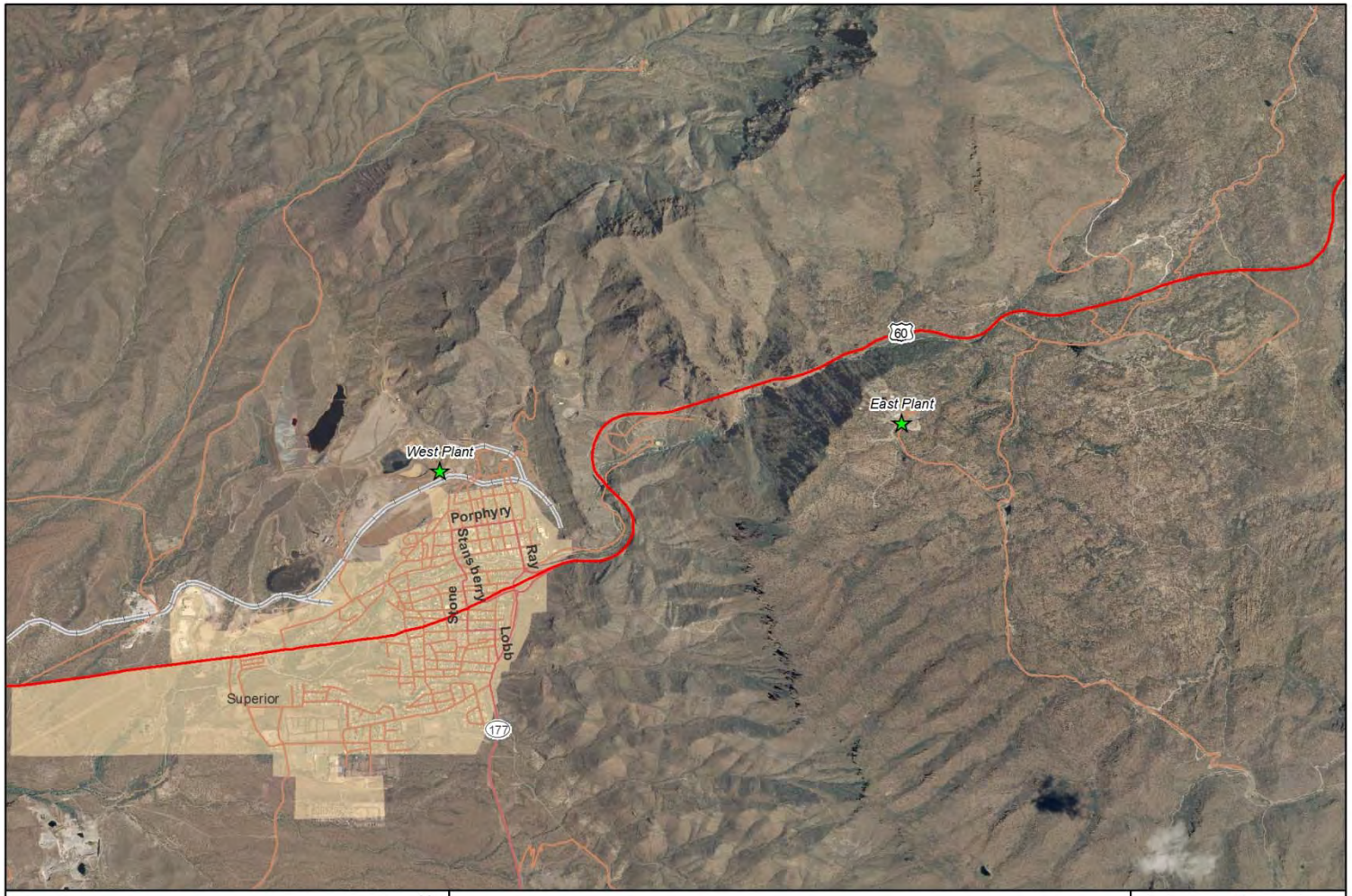
SECTION 1

INTRODUCTION

On April 8 and 10, 2013, the air quality instrumentation was calibrated at the Resolution Copper West Plant, near Superior, AZ. The West Plant monitoring station is operated by the Resolution Copper Mining company and is located approximately one quarter mile west of the administration buildings (see Figure 1). The Calibration was conducted in accordance with the following guideline documents:

- Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II:Ambient Air Quality Monitoring Program (EPA-454/B-13-003, May 2013)
- Code of Federal Regulations (40 CFR Parts 50 and 58)

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



0 0.4 0.8 1.6 Miles

N

Version: 06/08/2011

Project No: 262-01

Figure 1

East Plant and West Plant Monitor Locations

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SECTION 2

SYSTEM DESCRIPTION

The parameters calibrated at the West monitoring site include particulate matter less than 10 and 2.5 microns in diameter (PM_{10} & $PM_{2.5}$). The particulate instrumentation is housed in a climate controlled shelter. Inlet heights are listed in Table 1.

Table 1. Instruments and inlet heights

Parameter	Approximate Height (meters)
PM_{10}	2
$PM_{2.5}$	2

Monitored data parameters are recorded via analog inputs on two Campbell Scientific CR3000 dataloggers, each powered independently by either DC solar or by locally supplied AC line power.

SECTION 3

CALIBRATION METHODOLOGY

The BAM 1020 PM_{10} and BAM 1020 $PM_{2.5}$ monitors were assessed and calibrated by comparing and then adjusting the temperature, barometric pressure, and internal flow to a certified Delta-Cal Volumetric Air Flow Calibrator. All required maintenance was performed on the instrument to assure optimal operations. The temperature, barometric pressure and flow output readings from the Delta-Cal and the instrument were recorded on a standardized form.

The background (BKGD) zero correction is determined by running the unit for 72 hours days with a HEPA zero filter installed on the inlet so no particulate enters the instrument. The concentration data over this time are averaged, and the BKGD value is the negative of this average.

Copies of the completed Calibration data forms for each parameter are attached.

SECTION 4

RESULTS AND RECOMMENDATIONS

A 72 hour zero filter calibration the Met One BAM 1020 $PM^{2.5}$ particulate monitor completed on April 24, 2014.

All calibrated instruments and calibrated sensors were within their recommended tolerance parameters.

ATTACHMENT

Calibration Data Forms

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West Plant BAM-1020 PM_{10} Calibration Sheet

Model:	**BAM-1020**	**Serial Number:**	M8712
Audit Date:	4/08/14	**Audited By:**	W. Rucker
Audit Time:	1400 hrs		

Firmware: 3236-06 V3.6.3

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

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

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature:	as found:	30.5	29.5	as left:	29.7	29.3	Adjusted	X
Barometric Pressure:	as found:	688	688	as left:	688	687	Adjusted	
Flow Rate (15.0 lpm):	as found:	15.1	15.8	as left:	15.0	15.0	Adjusted	X
Flow Rate (18.4 lpm):	as found:	18.4	19.0	as left:	18.4	18.4	Adjusted	X
Flow Rate (16.7 lpm):	as found:	16.7	17.4	as left:	16.7	16.7	Adjusted	X

Calibration Notes: Serviced the nozzle and nozzle assembly.

Mechanical Audits

Pump muffler unclogged:	As found	X	As left	X	PM10 particle trap clean:	As found		As left	X	N/A	
Sample nozzle clean:	As found		As left	X	PM10 drip jar empty:	As found		As left	X	N/A	
Tape support vane clean:	As found		As left	X	PM10 bug screen clear:	As found		As left	X	N/A	
Capstan shaft clean:	As found		As left	X	PM2.5 particle trap clean:	As found		As left		N/A	X
Rubber pinch rollers clean:	As found		As left	X	Inlet tube water-tight seal OK:	As found	X	As left	X		
Chassis ground wire installed:	As found	X	As left		Inlet tube perpendicular to BAM:	As found	X	As left	X		

Signature: Rory Atkins 4-21-14

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

Model:	**BAM-1020**	**Serial Number:**	M8193
Audit Date:	4/10/2014	**Audited By:**	R. Attridge
Audit Time:	1500 hrs		

Firmware: 3236-06 V3.6.3

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

Leak Check Value:	as found:	0.9 LPM	Should Be: <1.0	as left:	0.3 LPM	Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	33.1	32.5	as left:	31.8	31.2	Adjusted	
Barometric Pressure (mmHg):	as found:	684	683	as left:	689	689	Adjusted	
Flow Rate (15.0 LPM):	as found:	15.0	15.1	as left:	15.0	15.1	Adjusted	
Flow Rate (18.4 LPM):	as found:	18.4	18.4	as left:	18.4	18.5	Adjusted	
Flow Rate (16.7 LPM):	as found:	16.7	16.9	as left:	16.7	16.8	Adjusted	

Audit Notes: Serviced the nozzle and nozzle assembly.

Mechanical Audits

Pump muffler unclogged:	As found	X	As left	X	PM10 particle trap clean:	As found		As left	X	N/A	
Sample nozzle clean:	As found		As left	X	PM10 drip jar empty:	As found		As left	X	N/A	
Tape support vane clean:	As found		As left	X	PM10 bug screen clear:	As found	X	As left	X	N/A	
Capstan shaft clean:	As found		As left	X	PM2.5 particle trap clean:	As found		As left	X	N/A	
Rubber pinch rollers clean:	As found		As left	X	Inlet tube water-tight seal OK:	As found		As left	X		
Chassis ground wire installed:	As found	X	As left	X	Inlet tube perpendicular to BAM:	As found	X	As left	x		

Signature: Roy Attridge 4-21-14

Appendix J: CD