Resolution Copper Mine Monitoring Sites

Summary of Meteorological Data Collected during the First Quarter 2011 Superior, Arizona

Prepared for:
Resolution Copper Company
102 Magma Heights
Superior, AZ 85273
Contact: Mayra Yrizarry
520.689.3332

Prepared by:
Applied Environmental Consultants
1553 W. Elna Rae, Ste. 101
Tempe, Arizona 85281
Contact: Thitipong (Jeep) Chindavijak
480.829.0457

MAY 6, 2011

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1. INTRODUCTION

This report summarizes meteorological measurements collected at the Resolution Copper Mine monitoring system. The meteorological monitoring system is comprised of two separate monitoring stations, one at the location of the east plant (KC1) near the main entrance to the mine and one at the location of the west plant (KC2), near the town of Superior. Monitoring is conducted at two sites due to the difference in topography between the two sites. The area around KC1 is at an elevated mountainous area; KC2 is located at the base of the mountains. The Resolution Copper Mine is a previously decomissioned underground copper and molybdenum mine that will be re-opened by Resolution Copper Company (Resolution), a member of Rio Tinto Group. The Resolution Mine is located just east of Superior, Arizona in Pinal County as shown in Figure 1.1.

The Resolution Project is located in the historic Pioneer Mining District three miles East of Superior, Arizona (See Figure 1.2). Elevations in the area range from to 2,763 feet above sea level in the town of Superior, while nearby Apache Leap Mountain reaches over 4,700 feet above sea level. Terrain east of the property is highly mountainous. Terrain to the west is less mountainous and becomes relatively flat approximately 10 miles west of Superior and into Phoenix.

The purpose of the monitoring program is to provide the measurements necessary to establish existing meteorological conditions at the proposed site of the Resolution Mine in support of a future air quality permit application for the facility. The monitoring program, including instrument audits, calibrations, maintenance and data processing, is being conducted by Applied Environmental Consultants (AEC). A full complement of meteorological monitoring comprised of measurements of wind speed, wind direction, differential temperature (delta-T), temperature, relative humidity, barometric pressure, solar radiation, evaporation, and precipitation, began at the West Met Site (KC2) on March 26, 2009. The East Met Site (KC1), which measures the same variables, began operation on April 17, 2009. This document summarizes the monitoring data collected during the first quarter of 2011 (January, February and March).

The ensuing sections of this report summarize the measurements made during the quarter. A description of the monitoring program is presented in Section 2. This is followed by a summary of the meteorological data presented in Section 3, data recovery statistics presented in Section 4, and quality assurance data presented in Section 5. Complete listings of the meteorological data, along with associated audit reports, are presented in the appendices.

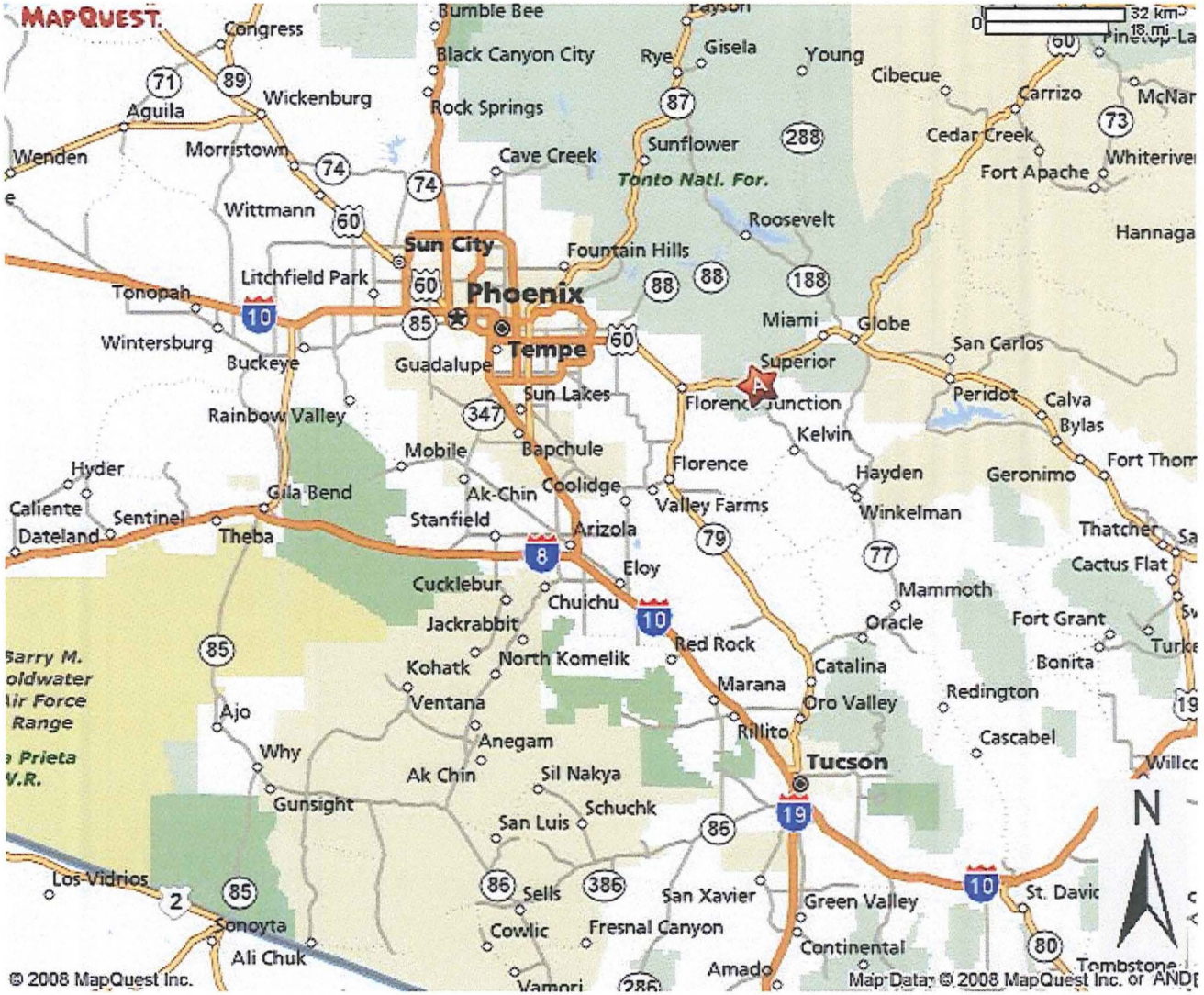


Figure 1.1 Map showing location of proposed Resolution Copper Mine (denoted by A) in Pinal County, Arizona.



Figure 1.2 Map showing locations of KC1 and KC2 monitoring sites.

2. MONITORING PROGRAM

Meteorological parameters being measured at the KC1 and KC2 monitoring stations include wind speed and wind direction at 10 meters, differential temperature between 2 and 10 meters, ambient temperature at 2 meters, relative humidity, barometric pressure, solar radiation, pan evaporation and precipitation. Measurements of sigma theta (standard deviation of the horizontal wind direction fluctuations) are also being made as a backup for stability data. Sigma theta data are not summarized in Section 3 below but are presented in Appendix A. A listing of the meteorological instruments is provided in Table 2.1. The instruments used at both monitoring sites are identical

All monitoring equipment, siting, operations and data processing conform to the criteria specified in the following EPA documents: *Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD)*, EPA-450/4-87-007, 1987; *Meteorological Program Guidance for Regulatory Modeling Applications*, EPA-450/4-87-013, Revised February, 2000; and *Volume IV: Meteorological Measurements Versions 2.0,* EPA-454/B-08-002, March 2008.

Table 2.1 Listing of Meteorological Equipment at KC1 and KC2

Instrument Description	Parameter Measured
Campbell Scientific CR1000 Data Logger with Compact Flash Module and Enclosure	Data Acquisition and Storage
Met One 014A Wind Speed Sensor	Horizontal Wind Speed
Met One 024A Wind Direction Sensor	Wind Direction
RM Young 43347-L Differential Temperature Sensor with Radiation Shield	Differential Temperature
Campbell Scientific HMP50-L Relative Humidity Sensor	Relative Humidity and Temperature
Campbell Scientific CS100 Barometric Pressure Sensor	Barometric Pressure
Li-Cor LI-200X Silicon Pyranometer	Solar Radiation
NovaLynx 255-100 Evaporation Pan	Evaporation
Met One 970 Precipitation Gauge	Precipitation

3. METEOROLOGICAL DATA SUMMARIES

Meteorological measurements for each parameter, except humidity, were reduced to one-hour averages and are expressed as hour ending averages. The relative humidity data were collected at the end of each hour. Hourly listings for each of the measured parameters are presented in Appendix A. Data for monitoring sites KC1 and KC2 are presented in separate tables.

3.1 Wind Speed/Wind Direction

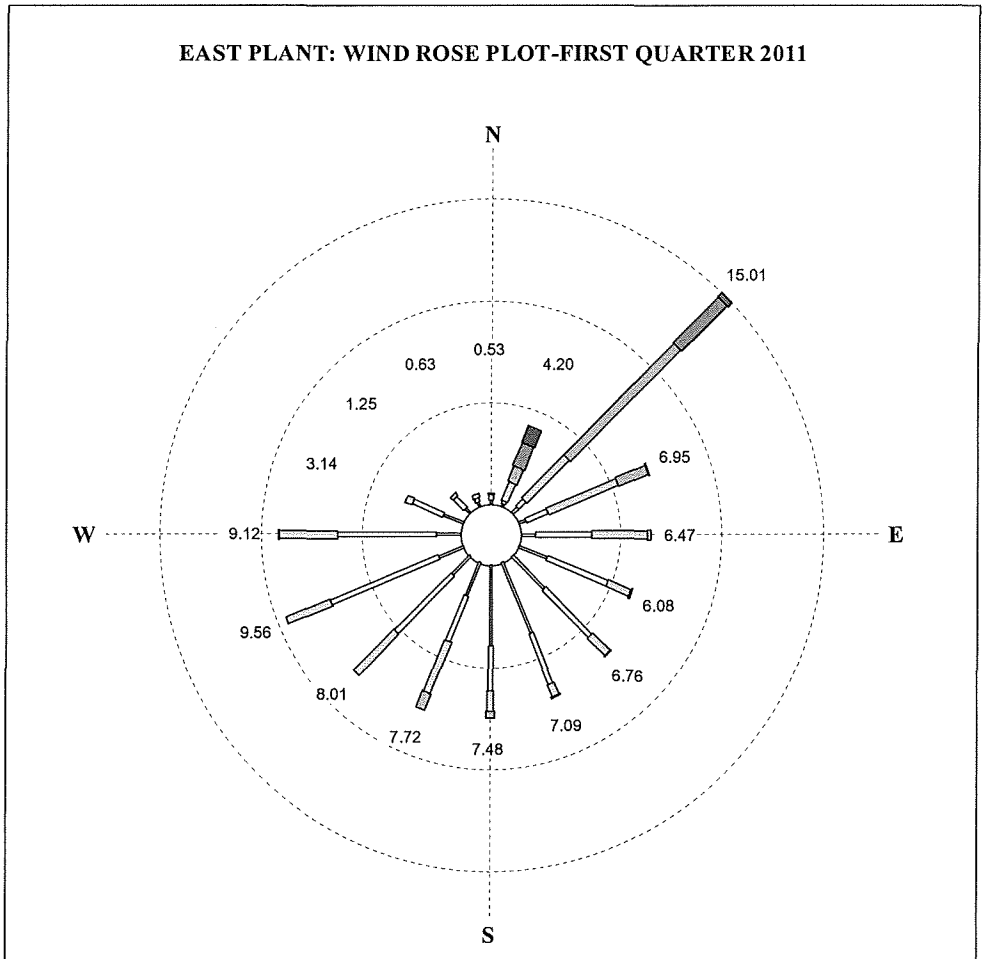
Wind speed statistics for the quarter are presented in Tables 3.1 and 3.2. Wind roses from each monitoring site for the quarter are presented in Figures 3.1 and 3.2.

Table 3.1 KC1: Monthly Wind Speed (m/s) Summary for the First Quarter 2011

	Monthly Avg.	Maximum Hourly Avg.	Minimum Hourly Avg.
January	3.7	13.0	0.0
February	3.5	13.1	0.0
March	2.7	10.6	0.2

Table 3.2 KC2: Monthly Wind Speed (m/s) Summary for the First Quarter 2011

	Monthly Avg.	Maximum Hourly Avg.	Minimum Hourly Avg.
January	3.4	14.5	0.1
February	3.5	11.8	0.2
March	2.6	7.8	0.1



PERCENT OCCURRENCE: Wind Speed (Meters Per Second)
LOWER BOUND OF CATEGORY

DIR	0.45	1.54	3.09	5.14	8.23	10.8
N	0.19	0.29	0.05	0.00	0.00	0.00
NNE	0.14	0.14	0.97	0.82	1.21	0.92
NE	0.39	0.48	2.99	7.72	3.14	0.29
ENE	0.39	1.16	3.76	1.59	0.05	0.00
E	0.72	2.80	2.75	0.19	0.00	0.00
ESE	1.54	3.23	1.21	0.10	0.00	0.00
SE	2.27	3.23	1.21	0.05	0.00	0.00
SSE	3.72	2.70	0.63	0.05	0.00	0.00

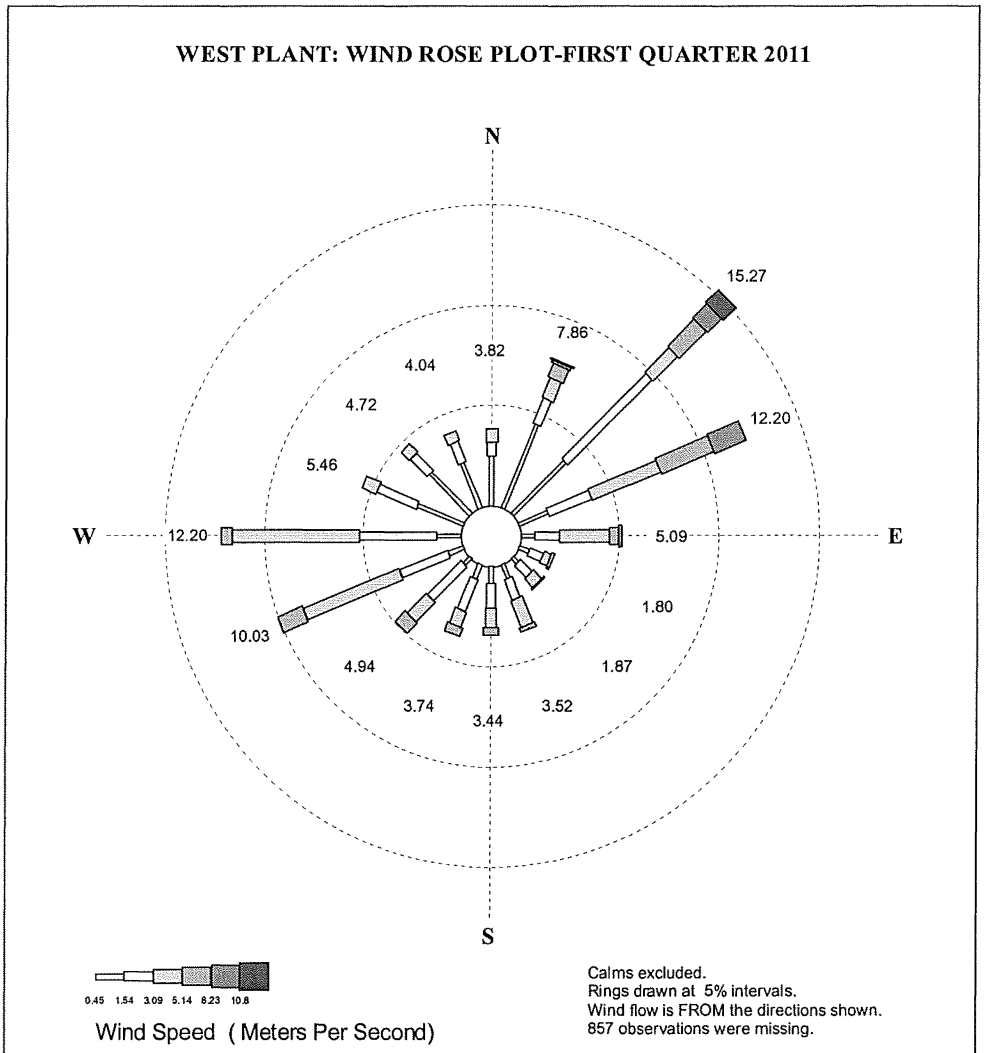
TOTAL OBS = 2151 MISSING OBS = 9

PERCENT OCCURRENCE: Wind Speed (Meters Per Second)
LOWER BOUND OF CATEGORY

DIR	0.45	1.54	3.09	5.14	8.23	10.8
S	3.91	2.27	0.97	0.34	0.00	0.00
SSW	1.74	2.41	2.70	0.87	0.00	0.00
SW	1.25	3.96	2.80	0.00	0.00	0.00
WSW	1.35	5.84	2.36	0.00	0.00	0.00
W	1.25	4.92	2.90	0.05	0.00	0.00
WNW	1.11	1.64	0.39	0.00	0.00	0.00
NW	0.34	0.72	0.19	0.00	0.00	0.00
NNW	0.24	0.19	0.19	0.00	0.00	0.00

CALM OBS = 79

Figure 3.1 Wind rose for the KC1 (East Plant) monitoring site for the First Quarter 2011.



PERCENT OCCURRENCE: Wind Speed (Meters Per Second)
LOWER BOUND OF CATEGORY

DIR	0.45	1.54	3.09	5.14	8.23	10.8
N	2.47	0.67	0.67	0.00	0.00	0.00
NNE	4.49	1.35	1.05	0.75	0.15	0.07
NE	3.74	5.99	1.72	1.87	1.05	0.90
ENE	1.57	2.32	3.74	2.84	1.72	0.00
E	0.67	1.27	2.54	0.45	0.15	0.00
ESE	0.52	0.75	0.37	0.15	0.00	0.00
SE	0.37	0.82	0.60	0.07	0.00	0.00
SSE	0.75	1.12	1.42	0.22	0.00	0.00

TOTAL OBS = 1375 MISSING OBS = 857

PERCENT OCCURRENCE: Wind Speed (Meters Per Second)
LOWER BOUND OF CATEGORY

DIR	0.45	1.54	3.09	5.14	8.23	10.8
S	0.82	1.27	0.97	0.37	0.00	0.00
SSW	0.75	1.72	0.82	0.45	0.00	0.00
SW	0.45	2.40	1.35	0.75	0.00	0.00
WSW	0.82	2.62	5.24	1.35	0.00	0.00
W	1.27	3.89	6.44	0.60	0.00	0.00
WNW	2.54	2.17	0.75	0.00	0.00	0.00
NW	2.92	1.20	0.60	0.00	0.00	0.00
NNW	2.40	1.12	0.52	0.00	0.00	0.00

CALM OBS = 39

Figure 3.2 Wind rose for the KC2 (West Plant) monitoring site for the First Quarter 2011.

3.2 *Differential Temperature*

The differential temperatures were calculated based on the 10 meter sensor reading minus the 2-meter sensor reading. The differential temperature statistics for the quarter are presented in Tables 3.3 and 3.4.

Table 3.3 KC1: Monthly Differential Temperature Summary for the First Quarter 2011

	Monthly Average Differential Temperature Per Hour of Day (°C) [a]					
	Nighttime Hours					
Month	19	20	21	22	23	24
January	0.235	0.309	0.308	0.334	0.295	0.309
February	0.120	0.261	0.347	0.335	0.401	0.395
March	0.069	0.162	0.299	0.431	0.441	0.482
	1	2	3	4	5	6
January	0.305	0.294	0.338	0.304	0.288	0.312
February	0.361	0.355	0.292	0.297	0.260	0.232
March	0.474	0.447	0.463	0.446	0.455	0.523
	Daytime Hours					
Month	7	8	9	10	11	12
January	0.345	0.310	-0.100	-0.470	-0.669	-0.756
February	0.259	0.144	-0.231	-0.515	-0.690	-0.776
March	0.484	0.090	-0.470	-0.673	-0.757	-0.878
	13	14	15	16	17	18
January	-0.883	-0.843	-0.708	-0.513	-0.218	0.089
February	-0.823	-0.781	-0.704	-0.562	-0.342	-0.064
March	-0.894	-0.878	-0.800	-0.657	-0.482	-0.188

[a] Differential temperatures based on 10-meter temperature minus 2-meter temperature.

Table 3.4 KC2: Monthly Differential Temperature Summary for the First Quarter 2011

	Monthly Average Differential Temperature Per Hour of Day (°C) [a]					
	Nighttime Hours					
Month	19	20	21	22	23	24
January	0.294	0.707	0.802	0.924	0.911	0.874
February	0.185	0.576	0.744	0.746	0.750	0.803
March	0.001	0.345	0.851	0.965	0.945	1.031
	1	2	3	4	5	6
January	0.988	0.968	0.935	0.820	0.759	0.795
February	0.789	0.857	0.798	0.802	0.823	0.749
March	1.131	1.066	1.071	1.057	0.931	0.883
	Daytime Hours					
Month	7	8	9	10	11	12
January	0.775	0.579	0.378	-0.372	-0.683	-0.854
February	0.786	0.621	0.114	-0.449	-0.697	-0.898
March	0.791	0.381	-0.464	-0.757	-0.959	-1.081
	13	14	15	16	17	18
January	-0.852	-0.859	-0.773	-0.654	-0.391	-0.107
February	-0.971	-0.946	-0.801	-0.636	-0.465	-0.146
March	-1.089	-1.075	-1.000	-0.900	-0.753	-0.424

[a] Differential temperatures based on 10-meter temperature minus 2-meter temperature.

3.3 Temperature

Ambient 2-meter temperature statistics for the quarter from both sites are presented in Tables 3.5 and 3.6.

Table 3.5 KC1: Monthly Temperature (°C) Summary for the First Quarter 2011

Month	Monthly Avg.	Maximum Daily Avg.	Minimum Daily Avg.	Maximum Hourly Avg.	Minimum Hourly Avg.
January	8.2	13.3	1.1	18.9	-2.3
February	6.8	14.4	-6.4	21.1	-10.8
March	13.8	19.8	6.8	25.3	2.7

Table 3.6 KC2: Monthly Temperature (°C) Summary for the First Quarter 2011

Month	Monthly Avg.	Maximum Daily Avg.	Minimum Daily Avg.	Maximum Hourly Avg.	Minimum Hourly Avg.
January	13.0	15.5	8.2	21.9	6.2
February	11.0	17.9	-1.9	24.2	-6.0
March	17.8	23.2	10.2	28.7	6.6

3.4 Relative Humidity

Relative humidity statistics for the quarter are presented in Tables 3.7 and 3.8.

Table 3.7 KC1: Monthly Relative Humidity (%) Summary for the First Quarter 2011

Month	Hour 04 Avg	Hour 10 Avg	Hour 16 Avg	Hour 22 Avg
January	41.4	34.5	29.4	37.6
February	43.6	35.1	30.0	38.5
March	35.5	27.4	21.9	29.5
Quarter	Max: 100		Min: 6.5	

Table 3.8 KC2: Monthly Relative Humidity (%) Summary for the First Quarter 2011

Month	Hour 04 Avg	Hour 10 Avg	Hour 16 Avg	Hour 22 Avg
January	31.5	47.0	46.4	35.2
February	50.5	64.0	41.5	44.2
March	--	--	--	--
Quarter	Max: 99.9		Min: 0.1	

3.5 *Barometric Pressure*

Barometric pressure statistics for the quarter are presented in Tables 3.9 and 3.10.

Table 3.9 KC1: Monthly Barometric Pressure (in Hg) Summary for the First Quarter 2011

Month	Hour 04 Avg	Hour 10 Avg	Hour 16 Avg	Hour 22 Avg
January	25.82	25.84	25.79	25.81
February	25.78	25.81	25.76	25.79
March	25.77	25.81	25.76	25.77
Quarter	Max: 26.07		Min: 25.40	

Table 3.10 KC2: Monthly Barometric Pressure (in Hg) Summary for the First Quarter 2011

Month	Hour 04 Avg	Hour 10 Avg	Hour 16 Avg	Hour 22 Avg
January	26.97	27.00	25.15	26.96
February	27.02	27.04	26.99	27.01
March	26.94	26.98	26.91	26.94
Quarter	Max: 27.28		Min: 26.73	

3.6 Solar Radiation

Solar radiation statistics for the quarter are presented in Tables 3.11 and 3.12

Table 3.11 KC1: Monthly Solar Radiation (watts/m^2) Summary for the First Quarter 2011

Month	Monthly Avg.	Maximum Daily Avg.	Minimum Daily Avg.	Maximum Hourly Avg.	Minimum Hourly Avg.
January	299.1	353.5	158.8	653.7	0.0
February	317.9	439.1	51.2	806.0	0.0
March	435.6	514.2	86.7	885.0	0.7

Note: All statistics based on daylight hours.

Table 3.12 KC2: Monthly Solar Radiation (watts/m^2) Summary for the First Quarter 2011

Month	Monthly Avg.	Maximum Daily Avg.	Minimum Daily Avg.	Maximum Hourly Avg.	Minimum Hourly Avg.
January	318.9	394.6	162.1	679.0	0.2
February	312.7	415.4	171.9	763.7	0.0
March	437.6	516.4	91.9	934.0	1.0

Note: All statistics based on daylight hours.

3.7 Pan Evaporation

Evaporation statistics for the quarter are presented in Tables 3.13 and 3.14.

Table 3.13 KC1: Monthly Evaporation (inches) Summary for the First Quarter 2011

Month	Maximum Daily	Minimum Daily	Average Daily	Total Monthly
January	0.221	0.006	0.038	1.185
February	0.018	0.001	0.007	0.188
March	0.021	0.002	0.009	0.282

Table 3.14 KC2: Monthly Evaporation (inches) Summary for the First Quarter 2011

Month	Maximum Daily	Minimum Daily	Average Daily	Total Monthly
January	0.414	0.085	0.233	3.500
February	0.525	0.000	0.198	5.531
March	0.412	0.000	0.215	6.652

3.8 Precipitation

Precipitation events for the quarter are summarized in Tables 3.15 and 3.16. Precipitation at site KC1 was 0.06 inch in January, 1.36 inches in February and 0.39 inch in March. Precipitation at site KC2 was 0.02 inch in January, 0.22 inch in February and 0.31 inch in March.

Table 3.15 KC1: Monthly Precipitation (inch) Summary for the First Quarter 2011

Month	Day	Precipitation (in)	Duration (hours)
January	1	0.01	1
	31	0.05	3
	Monthly Total	0.06	4
February	19	0.59	4
	20	0.09	5
	27	0.10	3
	28	0.58	8
	Monthly Total	1.36	20
March	21	0.39	6
	Monthly Total	0.39	6
Quarter	**Total**	**1.81**	**30**

Table 3.16 KC2: Monthly Precipitation (inch) Summary for the First Quarter 2011

Month	Day	Precipitation (in)	Duration (hours)
January	31	0.02	2
	Monthly Total	0.02	2
February	27	0.22	2
	Monthly Total	0.22	2
March	21	0.31	7
	Monthly Total	0.31	7
Quarter	**Total**	**0.55**	**11**

4. DATA RECOVERY

Data recovery statistics for the quarter are summarized for each site in Tables 4.1 and 4.2. Data were invalidated on 1/11/11 for site KC1 and 3/22/11 for site KC2 due to instrument audits. Missing data in January at site KC1 were due to power loss. Missing data at site KC2 were due to voltage regulator and power backup system failure. The relative humidity data were invalidated due to reading out-of-range. The evaporation data were invalidated due to precipitation and pan refills. Note that the evaporation pan at site KC1 was found empty during the audit.

Table 4.1 Monitoring Site KC1 Data Completeness for the First Quarter 2011

Parameters	January	February	March	Quarter
Wind Speed	98.8%	100%	100%	99.6%
Wind Direction	98.8%	100%	100%	99.6%
2-meter Temperature	98.8%	100%	100%	99.6%
10-meter Temperature	98.8%	100%	100%	99.6%
Temperature	98.9%	100%	100%	99.6%
Relative Humidity	98.9%	100%	100%	99.6%
Barometric Pressure	98.9%	100%	100%	99.6%
Solar Radiation	98.9%	100%	100%	99.6%
Evaporation	98.8%	100%	100%	99.6%
Precipitation	98.4%	100%	100%	99.5%

Table 4.2 Monitoring Site KC2 Data Completeness for the First Quarter 2011

Parameters	January	February	March	Quarter
Wind Speed	45.8%	63.7%	71.8%	60.4%
Wind Direction	45.8%	63.7%	71.8%	60.4%
2-meter Temperature	45.8%	63.7%	71.8%	60.4%
10-meter Temperature	45.8%	63.7%	71.8%	60.4%
Temperature	45.8%	63.7%	72.0%	60.5%
Relative Humidity	33.3%	49.9%	0%	27.7%
Barometric Pressure	45.8%	63.7%	72.0%	60.5%
Solar Radiation	45.8%	63.7%	72.0%	60.5%
Evaporation	45.6%	63.1%	71.5%	60.1%
Precipitation	45.8%	63.7%	71.5%	60.3%

5. QUALITY ASSURANCE

Routine quality assurance (QA) procedures were employed to check the meteorological data collected during the quarter.

5.1 Meteorological Measurements

Quality assurance procedures utilized to verify the integrity of the measured meteorological data include the following:

- review of the data to evaluate values and changes from one hour to the next
- performance audits of the field sensors conducted twice per year

5.1.1 Review of Data

The individual meteorological observations were screened according to the criteria listed in Table 5.1. Any data outside of the quality control limits were investigated by the Project Manager and the QA Officer for possible invalidation. The final validity determination was made after comparing the suspect data with other pertinent data to determine whether the data were invalid or whether an unusual meteorological event occurred. No data were invalidated during the quarter based on these screening procedures.

5.1.2 Audit of Field Sensors

Performance audits of the meteorological sensors of the KC1 and KC2 monitoring sites were conducted on January 11 and March 22, 2011, respectively. Performance audits were performed to determine if the instruments were operating within acceptable limits. The audit consisted of physical challenges of the field sensors and comparison of the sensor responses to known values. Results of the audits are summarized in Table 5.2 for site KC1 and Table 5.3 for site KC2. A complete meteorological audit report is presented in Appendix B.

Table 5.1 Meteorological Data Screening Criteria

Meteorological Variable	Screening Criteria
	Flag the data if the value:
Temperature (ambient and 2-meter and 10-meter differential temperature readings)	- is less than avg. monthly low or greater than avg. monthly high - is greater than a 5 °C change from the previous hour - does not vary by more than 1 °C for 12 consecutive hours
Differential Temperature	- is less than -0.1 °C/m during nighttime - is greater than 0.1 °C/m during daytime - is less than -3 °C or greater than 5 °C
Wind Speed	- is less than zero or greater than 5 m/s - does not vary by more than 0.1 m/s for 3 consecutive hours - does not vary by more than 0.5 m/s for 12 consecutive hours
Wind Direction	- is less than 0° or greater than 360° - does not vary by more than 1° for 3 consecutive hours - does not vary by more than 10° for 18 consecutive hours
Sigma Theta	- is less than 0° or greater than 90°
Precipitation	- is greater than 1 inch in one hour - is greater than 3 inches in 24 hours
Relative Humidity	- is less than 0% or greater than 100% - does not vary by more than 5% for 18 consecutive hours - normal diurnal patterns exist
Barometric Pressure	- is greater than 25.5 in Hg (based on elevation of site) - is less than 23.5 in Hg (based on elevation of site) - changes by more than 0.2 in Hg in three hours
Solar Radiation	- is greater than zero at night - is greater than the maximum possible for date and latitude - normal diurnal patterns exist
Evaporation	- is greater than 0.5 inches per day - monthly total exceeds monthly average for area

Table 5.2 KC1 Monitoring Site: Performance Audit Result Summary

Parameter	Performance Audit Result	Pass/Fail
Wind Speed	Starting Torque* = 0.1 gm-cm	Pass
	Mean Absolute Error:	
	0.00 m/s (at speeds ≤ 5 m/s)	Pass
	1.43 % (at speeds > 5 m/s)	Pass
Wind Direction	Starting Torque* = 3.0 gm-cm	Pass
	Mean Absolute Error:	
	Alignment = 1.8°	Pass
	Sensor = 1.20°	Pass
2-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.1 °C	Pass
	Ambient Bath = 0.0 °C	Pass
	Upscale Bath = 0.1 °C	Pass
10-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.1 °C	Pass
	Ambient Bath = 0.0 °C	Pass
	Upscale Bath = 0.1 °C	Pass
Differential Temperature	Mean Absolute Difference (Same Bath):	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.0 °C	Pass
	Upscale Bath = 0.0 °C	Pass
	Mean Absolute Difference (Different Baths):	
	Absolute Difference = 0.09 °C	Pass
Relative Humidity	Mean Absolute Percent Error = 3.5 %	Pass
Ambient Temperature	Mean Absolute Error = 0.2 °C	Pass
Barometric Pressure	Mean Absolute Error = 0.06 in-Hg	Pass
Solar Radiation	Mean Absolute Percent Error = 3.07 %	Pass
Evaporation	Mean Absolute Percent Error = - %	Pass
Precipitation	Mean Absolute Percent Error = 6.50 %	Pass

*The starting torque pass/fail limits for the wind speed and wind direction sensors are equivalent to a starting threshold of ≤ 0.5 m/s.

Table 5.3 KC2 Monitoring Site: Performance Audit Result Summary

Parameter	Performance Audit Result	Pass/Fail
Wind Speed	Starting Torque* = 0.1 gm-cm	Pass
	Mean Absolute Error:	
	0.00 m/s (at speeds ≤ 5 m/s)	Pass
	1.45 % (at speeds > 5 m/s)	Pass
Wind Direction	Starting Torque* = 8.0 gm-cm	Pass
	Mean Absolute Error:	
	Alignment = 2.0°	Pass
	Sensor = 0.7°	Pass
2-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.1 °C	Pass
	Ambient Bath = 0.1 °C	Pass
	Upscale Bath = 0.0 °C	Pass
10-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.1 °C	Pass
	Ambient Bath = 0.1 °C	Pass
	Upscale Bath = 0.0 °C	Pass
Differential Temperature	Mean Absolute Difference (Same Bath):	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.0 °C	Pass
	Upscale Bath = 0.0 °C	Pass
	Mean Absolute Difference (Different Baths):	
	Absolute Difference = -0.03 °C	Pass
Relative Humidity	Mean Absolute Percent Error = 6.3 %	Pass
Ambient Temperature	Mean Absolute Error = 0.1 °C	Pass
Barometric Pressure	Mean Absolute Error = 0.05 in-Hg	Pass
Solar Radiation	Mean Absolute Percent Error = 3.14 %	Pass
Evaporation	Mean Absolute Percent Error = 6.50 %	Pass
Precipitation	Mean Absolute Percent Error = 1.50 %	Pass

*The starting torque pass/fail limits for the wind speed and wind direction sensors are equivalent to a starting threshold of ≤ 0.5 m/s.

APPENDIX A

METEOROLOGICAL DATA

METEOROLOGICAL MEASUREMENTS

KC1 SITE

APPENDIX KC1-A: HOURLY WIND SPEED/DIRECTION DATA
APPENDIX KC1-B: HOURLY SIGMA THETA DATA
APPENDIX KC1-C: HOURLY DIFFERENTIAL TEMPERATURE DATA
APPENDIX KC1-D: HOURLY TEMPERATURE DATA
APPENDIX KC1-E: HOURLY RELATIVE HUMIDITY
APPENDIX KC1-F: HOURLY BAROMETRIC PRESSURE DATA
APPENDIX KC1-G: HOURLY SOLAR RADIATION DATA
APPENDIX KC1-H: HOURLY EVAPORATION DATA
APPENDIX KC1-I: HOURLY PRECIPITATION DATA

APPENDIX KC1-A

HOURLY WIND SPEED/DIRECTION DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JANUARY 2011

WIND SPEED (m/s)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	3.1	4.1	5.0	5.6	6.0	5.7	5.3	5.1	4.9	3.2	2.9	2.9	3.4	4.6	3.4	4.5	INV	INV	INV
01/02/11	6.5	6.4	5.9	4.6	4.7	6.6	6.8	5.9	6.5	6.3	6.0	6.8	7.7	6.5	6.6	6.1	5.2	4.1	3.8	3.8	3.9	3.7	3.6	3.7	7.7	3.6	5.5
01/03/11	3.9	3.6	3.9	3.7	3.5	3.8	4.0	2.9	3.3	3.9	4.2	3.3	2.6	2.5	2.3	2.2	2.2	2.6	1.3	1.5	1.0	1.5	1.8	1.6	4.2	1.0	2.8
01/04/11	1.6	0.7	0.9	0.9	1.4	1.3	0.9	1.0	1.4	0.9	2.1	2.8	3.3	3.0	3.2	3.2	3.3	3.2	1.4	1.1	0.7	0.8	1.8	2.4	3.3	0.7	1.8
01/05/11	2.7	2.7	2.6	2.7	3.4	3.5	3.7	2.6	3.4	4.0	4.4	5.7	5.3	3.6	2.7	1.9	0.7	2.0	3.1	3.5	4.3	3.8	4.2	4.9	5.7	0.7	3.4
01/06/11	5.5	4.6	4.2	4.4	4.0	4.3	5.0	4.6	4.9	4.3	5.2	8.2	7.6	6.5	5.9	5.1	6.0	3.9	4.7	4.0	2.6	2.6	2.7	3.1	8.2	2.6	4.7
01/07/11	2.8	2.5	2.3	2.5	2.5	2.6	2.6	2.8	3.6	3.2	3.4	3.0	2.4	2.2	2.7	2.2	2.6	2.2	1.9	1.8	2.3	2.0	0.7	1.2	3.6	0.7	2.4
01/08/11	0.7	0.6	0.3	1.4	1.8	1.0	0.4	0.6	0.4	2.0	1.6	2.8	3.1	3.1	2.6	2.4	2.4	2.4	1.3	1.1	1.1	0.8	0.9	1.2	3.1	0.3	1.5
01/09/11	1.1	1.1	1.3	0.9	0.7	0.6	0.3	0.5	0.6	1.5	2.3	2.5	2.9	2.8	3.1	2.8	2.1	1.4	1.2	1.1	2.0	3.1	2.9	1.6	3.1	0.3	1.7
01/10/11	2.2	1.6	0.8	3.4	2.0	2.0	1.7	1.0	0.6	1.7	1.9	2.9	3.2	2.5	3.6	3.4	3.3	3.0	2.6	1.3	0.9	1.6	2.9	3.4	3.6	0.6	2.2
01/11/11	5.6	5.9	4.3	4.6	3.7	4.4	4.0	4.2	5.7	4.9	INV	7.6	8.1	7.3	6.8	6.9	6.4	5.6	5.0	5.8	6.7	6.3	7.2	6.0	8.1	3.7	5.8
01/12/11	5.3	6.3	7.3	7.3	8.1	8.5	9.0	7.9	5.1	5.2	6.9	7.1	7.0	7.0	5.4	3.7	4.3	2.8	1.6	4.4	3.9	5.8	4.2	4.0	9.0	1.6	5.7
01/13/11	4.3	4.7	5.5	5.3	9.3	9.5	6.3	8.1	9.6	8.1	7.5	7.3	6.5	6.3	5.5	5.1	3.9	2.0	1.8	2.1	1.9	1.7	2.1	2.5	9.6	1.7	5.3
01/14/11	2.8	3.2	2.2	1.7	2.7	2.7	2.5	2.7	4.2	6.9	9.3	10.9	11.7	7.7	5.3	6.2	5.5	3.4	3.3	5.4	5.3	7.9	10.5	12.2	12.2	1.7	5.7
01/15/11	8.9	3.7	6.0	7.2	4.6	3.7	4.4	3.9	6.5	5.9	6.4	6.9	5.9	4.1	3.5	3.3	2.2	1.1	1.6	1.3	1.9	2.8	2.2	1.8	8.9	1.1	4.2
01/16/11	2.1	3.3	3.0	2.7	3.5	3.3	2.7	2.8	3.3	2.9	2.9	2.8	2.6	3.9	3.6	4.0	4.5	3.1	0.6	1.1	1.7	1.5	1.4	1.6	4.5	0.6	2.7
01/17/11	2.2	2.4	2.5	2.1	1.9	2.7	2.4	2.3	1.8	1.4	1.9	3.7	3.4	3.1	3.6	2.4	2.5	3.0	3.3	2.7	2.2	3.1	3.0	1.8	3.7	1.4	2.6
01/18/11	1.6	1.8	1.3	1.1	1.7	1.3	1.8	3.2	3.8	4.0	6.3	5.9	5.1	3.1	3.8	3.8	3.8	4.0	2.3	0.9	1.2	1.9	1.0	0.8	6.3	0.8	2.7
01/19/11	0.5	0.9	0.6	0.4	0.0	0.4	0.4	0.2	0.1	1.2	2.3	3.0	2.5	2.6	3.3	2.8	2.5	2.2	2.2	1.5	1.9	2.7	2.5	2.2	3.3	0.0	1.6
01/20/11	1.6	4.4	8.1	9.4	9.8	9.3	10.0	11.5	10.2	11.1	10.7	9.1	8.3	8.3	6.7	5.7	5.0	3.9	2.1	1.9	3.2	2.3	2.7	2.9	11.5	1.6	6.6
01/21/11	2.5	2.9	2.9	3.0	3.2	2.4	2.0	2.5	3.0	3.7	4.8	4.9	4.7	4.8	2.8	4.9	5.9	4.8	0.9	1.2	1.8	3.4	2.6	2.0	5.9	0.9	3.2
01/22/11	2.4	2.4	2.2	2.2	2.2	2.3	2.4	2.1	1.8	1.3	1.2	3.2	3.0	2.8	2.9	3.0	3.2	5.1	4.5	2.7	3.6	2.7	2.7	3.1	5.1	1.2	2.7
01/23/11	1.9	1.8	3.1	11.2	12.1	12.0	12.5	13.0	12.7	12.4	11.1	10.1	8.9	8.9	6.2	5.8	5.2	3.3	4.1	4.2	2.3	1.9	2.1	3.8	13.0	1.8	7.1
01/24/11	2.6	2.3	2.5	2.4	2.1	2.2	2.7	2.1	1.7	2.0	1.7	1.9	3.1	4.5	2.8	2.3	2.8	2.3	3.0	2.9	4.8	7.1	9.6	10.8	10.8	1.7	3.4
01/25/11	9.9	9.0	9.7	7.2	5.8	6.0	6.2	5.9	5.5	6.3	7.2	6.3	5.9	4.3	1.9	2.2	3.6	3.0	1.4	1.2	1.7	2.5	3.4	4.2	9.9	1.2	5.0
01/26/11	3.4	7.2	7.7	10.0	10.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	1.4	7.1	6.7	6.5	6.4	6.2	4.5	5.7	6.5	10.8	11.3	8.5	11.3	0.0	5.2
01/27/11	7.0	5.9	6.7	4.5	4.0	6.7	6.1	4.5	5.5	8.3	8.9	8.4	7.9	8.3	8.7	6.8	4.9	3.4	1.3	1.9	2.5	2.4	3.1	3.5	8.9	1.3	5.5
01/28/11	2.9	2.7	2.5	4.6	3.5	3.4	3.2	3.6	3.9	4.8	4.7	3.9	3.6	3.0	2.6	1.8	1.6	2.5	2.2	0.9	0.6	1.1	0.9	0.8	4.8	0.6	2.7
01/29/11	0.4	1.1	0.7	0.4	0.9	1.2	1.9	1.9	1.3	1.0	1.9	3.2	3.1	3.4	2.9	2.5	2.7	2.7	2.2	2.2	2.0	0.7	1.5	0.9	3.4	0.4	1.8
01/30/11	0.3	0.1	0.2	0.5	0.4	0.2	0.8	1.8	1.4	1.8	3.4	3.9	3.9	3.6	3.1	2.9	2.4	2.6	2.0	2.0	1.2	2.6	3.4	4.7	4.7	0.1	2.0
01/31/11	2.8	2.3	2.0	2.9	1.3	1.4	1.2	1.3	1.3	2.2	2.2	3.1	3.3	3.2	3.3	2.9	3.7	3.8	2.5	1.2	0.8	0.6	0.4	1.0	3.8	0.4	2.1
Hourly Averages	3.3	3.3	3.4	3.8	3.8	3.8	3.6	3.6	3.7	4.1	4.6	5.1	5.0	4.7	4.2	3.9	3.7	3.2	2.5	2.4	2.6	3.1	3.3	3.4			

Maximum Hourly Wind Speed: 13.0 **Minimum Hourly Wind Speed:** 0.0 **Average Monthly Wind Speed:** 3.7

Maximum 24-Hour Mean: 7.1 **Minimum 24-Hour Mean:** 1.5

Total Number of Observations: 735 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JANUARY 2011

WIND DIRECTION (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	95	75	77	48	38	43	40	38	40	61	78	70	59	54	64	56
01/02/11	49	48	50	61	69	52	53	54	55	58	61	64	54	52	50	52	57	65	64	66	59	64	75	72
01/03/11	72	65	65	83	75	70	64	86	72	63	55	64	120	308	226	260	257	263	252	186	222	180	180	173
01/04/11	188	191	162	207	187	196	212	177	176	139	121	253	255	252	256	268	266	279	299	170	44	126	119	99
01/05/11	130	135	140	142	125	131	130	125	115	90	62	60	69	61	306	257	356	100	110	133	107	117	124	122
01/06/11	115	91	126	97	91	76	67	120	96	72	69	47	46	47	48	52	46	60	54	64	120	108	99	87
01/07/11	99	120	111	100	105	124	111	97	87	80	76	67	107	231	244	259	260	267	254	267	266	269	217	268
01/08/11	185	176	193	262	282	206	155	184	180	236	217	237	255	252	282	223	243	214	199	242	250	266	248	249
01/09/11	265	234	248	199	181	195	158	165	122	125	191	229	241	236	225	214	206	235	214	254	223	215	218	236
01/10/11	227	236	230	219	230	227	126	141	128	108	169	251	239	268	239	244	275	262	271	323	201	155	85	77
01/11/11	50	52	74	76	105	95	100	89	60	50	INV	47	42	38	36	40	39	44	49	45	42	45	40	48
01/12/11	55	50	43	46	39	37	37	44	70	72	47	47	41	34	31	38	38	62	114	48	71	53	72	102
01/13/11	96	108	100	83	43	40	63	48	46	49	52	43	40	37	41	33	39	68	118	92	104	162	132	122
01/14/11	116	125	100	164	174	178	175	154	90	45	33	33	38	36	21	25	24	42	126	75	96	83	46	38
01/15/11	39	82	49	47	70	91	81	79	48	54	48	38	42	34	38	50	49	154	234	169	95	81	122	142
01/16/11	135	122	117	119	117	133	135	149	133	121	92	83	270	265	261	262	269	260	241	202	180	203	161	117
01/17/11	123	135	147	154	163	146	167	177	169	171	250	250	238	255	261	260	245	264	268	285	289	277	269	247
01/18/11	244	272	234	192	167	159	97	86	92	97	41	41	41	23	261	267	265	270	275	252	264	259	260	244
01/19/11	298	219	161	134	101	23	227	158	74	108	209	233	232	195	207	144	114	317	280	293	310	299	303	322
01/20/11	65	68	35	32	29	33	30	30	30	32	37	37	36	33	36	38	32	43	77	129	80	150	158	168
01/21/11	147	120	132	113	125	162	143	132	131	137	53	46	53	29	353	267	267	272	250	170	146	67	132	142
01/22/11	114	119	153	155	150	139	169	179	156	140	110	258	235	239	264	259	268	266	268	270	269	267	269	270
01/23/11	243	359	44	32	32	33	31	32	30	32	30	28	40	43	31	33	24	22	39	39	96	124	141	69
01/24/11	119	140	164	172	164	183	176	176	167	121	100	275	89	26	294	240	2	326	34	59	38	63	44	35
01/25/11	39	40	37	48	52	51	47	51	56	49	40	42	38	45	40	71	33	43	78	140	92	100	105	97
01/26/11	83	40	39	31	33	32	0	0	0	0	0	0	51	49	36	30	31	35	46	44	45	32	35	48
01/27/11	55	60	57	75	80	61	60	67	69	47	47	40	39	43	44	44	39	49	108	73	95	98	55	60
01/28/11	102	88	97	80	87	88	91	108	99	62	52	97	123	138	142	89	132	226	257	231	158	170	164	181
01/29/11	135	161	160	185	158	160	162	182	155	126	191	251	232	239	239	243	242	242	261	275	279	289	291	303
01/30/11	185	100	110	158	117	108	170	143	90	79	120	158	198	202	201	195	186	205	213	221	227	203	164	295
01/31/11	294	264	218	228	252	89	251	239	237	256	236	230	226	166	166	261	258	275	288	290	177	127	190	172
Hourly Averages	136	134	120	123	120	111	116	116	101	93	96	116	122	126	159	153	148	171	175	167	152	152	148	150

Total Number of Observations: 735 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

FEBRUARY 2011

WIND SPEED (m/s)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
02/01/11	0.5	1.1	1.1	0.4	0.9	0.6	1.2	1.3	1.6	2.0	2.4	3.2	3.4	3.8	4.7	4.1	3.5	4.6	4.8	5.0	4.1	3.4	4.6	6.5	6.5	0.4	2.9
02/02/11	8.2	9.0	9.1	9.7	9.5	8.3	8.9	8.9	10.1	10.7	10.0	9.3	8.3	8.0	7.9	8.1	9.7	9.0	13.1	11.8	12.1	11.2	6.2	5.5	13.1	5.5	9.3
02/03/11	7.3	6.4	6.3	9.1	7.5	10.4	9.2	6.2	5.9	4.9	4.6	4.5	5.0	5.9	5.7	4.4	4.0	2.1	3.2	3.5	1.0	1.4	1.4	1.2	10.4	1.0	5.0
02/04/11	1.0	1.1	1.9	1.3	2.0	3.3	2.7	2.9	2.3	3.1	3.2	2.3	3.8	2.7	3.8	4.7	4.6	3.0	1.4	0.5	0.8	0.7	1.0	0.9	4.7	0.5	2.3
02/05/11	0.7	0.6	0.6	0.9	0.6	1.6	1.8	1.7	1.0	2.5	2.2	2.9	3.8	3.3	4.4	4.3	3.9	3.4	2.8	2.1	1.5	0.8	0.9	1.6	4.4	0.6	2.1
02/06/11	1.5	1.7	1.8	2.0	1.9	2.2	2.3	2.7	2.0	3.6	5.8	5.6	4.9	4.9	3.7	4.0	3.5	3.0	2.8	2.1	1.7	2.0	3.1	3.1	5.8	1.5	3.0
02/07/11	2.6	3.0	3.3	2.9	6.8	4.6	4.4	4.3	4.9	5.4	5.7	3.3	2.4	2.2	2.6	2.4	2.8	2.3	2.9	2.6	1.7	1.1	0.7	0.8	6.8	0.7	3.1
02/08/11	1.3	1.3	2.3	3.9	4.5	4.7	4.3	3.1	2.5	3.6	4.0	4.2	3.8	3.7	4.6	4.2	4.3	3.7	3.0	2.8	1.6	1.4	2.7	6.9	6.9	1.3	3.4
02/09/11	8.0	8.7	9.1	9.5	9.7	11.2	12.1	12.1	11.6	11.8	11.5	9.7	8.7	7.5	6.3	4.8	4.3	4.7	5.1	6.9	8.9	9.6	10.5	9.9	12.1	4.3	8.8
02/10/11	9.9	10.2	10.5	10.7	10.1	9.7	10.8	10.7	10.8	9.9	10.2	9.6	9.2	8.4	7.2	6.1	5.8	4.8	2.6	4.2	7.4	6.8	6.5	9.3	10.8	2.6	8.4
02/11/11	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	8.0	7.4	7.7	6.7	5.4	4.5	3.1	1.5	1.4	3.6	6.7	5.0	6.6	8.0	0.0	3.0
02/12/11	7.7	5.4	4.2	4.3	4.0	3.9	4.0	4.2	6.1	6.8	8.0	7.6	8.5	7.6	6.9	6.4	5.5	4.4	5.6	3.8	2.2	2.5	3.0	3.5	8.5	2.2	5.3
02/13/11	3.7	3.8	3.4	3.4	4.3	4.3	3.9	4.4	5.6	6.0	6.3	4.8	4.3	3.7	2.4	1.5	1.7	2.5	2.7	0.5	0.9	0.7	0.1	0.7	6.3	0.1	3.2
02/14/11	0.7	0.7	1.1	0.5	0.7	1.4	1.4	1.6	1.4	1.5	2.8	2.6	2.7	2.7	2.6	2.6	2.7	1.9	1.5	1.0	0.7	0.1	0.4	0.9	2.8	0.1	1.5
02/15/11	1.2	1.1	0.6	0.8	1.1	0.9	1.4	1.9	1.7	1.8	2.2	2.3	2.8	2.9	2.8	2.9	2.5	2.0	1.9	1.0	1.2	0.3	0.7	0.7	2.9	0.3	1.6
02/16/11	0.5	1.7	1.9	0.5	0.3	0.4	0.5	0.5	1.9	2.5	2.7	2.8	3.3	3.1	3.5	3.0	2.5	1.5	1.5	1.1	2.0	2.4	2.5	2.2	3.5	0.3	1.9
02/17/11	2.5	2.9	3.3	4.1	4.8	3.7	2.1	1.7	2.1	2.1	1.9	2.0	2.8	2.3	2.2	2.6	2.9	2.1	0.9	1.1	1.4	0.8	1.2	1.0	4.8	0.8	2.3
02/18/11	2.5	2.7	2.8	1.9	0.2	0.1	0.1	0.1	1.1	1.1	2.4	3.1	3.0	1.9	2.5	1.6	1.9	1.9	2.5	1.8	3.5	3.1	2.7	2.2	3.5	0.1	1.9
02/19/11	2.1	1.8	1.6	1.2	1.1	1.5	2.3	1.1	2.1	5.3	5.7	6.6	5.3	7.8	7.3	3.5	3.4	4.2	4.4	4.7	4.6	5.4	1.6	3.4	7.8	1.1	3.7
02/20/11	4.9	4.6	4.9	4.4	3.9	3.1	3.4	3.4	3.8	4.6	3.8	4.3	4.0	4.8	3.6	4.1	4.0	3.1	2.7	2.2	2.1	1.5	1.1	0.8	4.9	0.8	3.5
02/21/11	1.2	1.0	1.9	2.2	2.4	3.8	3.5	3.6	4.8	3.8	4.5	4.6	2.9	2.3	2.4	2.7	2.9	2.8	3.7	1.7	0.5	0.5	0.4	0.4	4.8	0.4	2.5
02/22/11	0.2	0.3	0.2	0.3	0.7	1.1	1.3	0.9	0.7	1.4	2.5	3.6	3.4	2.8	3.1	2.7	2.6	2.7	2.7	2.0	1.0	0.6	0.9	1.0	3.6	0.2	1.6
02/23/11	0.8	1.3	0.9	0.7	1.3	1.5	1.6	1.8	1.8	1.8	3.0	3.0	4.4	4.0	3.9	5.2	4.0	2.9	2.3	3.0	2.5	2.6	2.0	1.9	5.2	0.7	2.4
02/24/11	1.6	1.8	1.7	0.8	2.1	1.3	1.7	0.9	1.2	1.4	2.3	2.4	3.1	3.0	3.3	3.4	2.6	2.4	1.8	1.2	0.1	0.3	0.5	0.5	3.4	0.1	1.7
02/25/11	0.6	0.6	0.0	0.4	0.4	0.3	0.3	0.2	1.1	2.4	2.8	2.7	2.8	3.4	2.8	2.6	2.3	2.2	1.7	1.5	0.2	1.9	1.9	1.9	3.4	0.0	1.5
02/26/11	2.6	1.8	1.1	0.6	0.2	1.7	2.0	2.0	1.1	1.8	2.4	5.0	4.7	5.6	2.9	2.4	2.4	2.5	2.9	4.1	3.2	4.0	3.0	4.5	5.6	0.2	2.7
02/27/11	6.5	5.8	3.3	2.7	2.6	2.8	3.2	5.1	4.9	5.1	4.8	3.3	3.4	4.4	2.8	2.9	1.8	1.2	0.6	0.8	0.4	0.8	1.1	1.3	6.5	0.4	3.0
02/28/11	1.0	1.8	2.5	4.7	4.6	5.8	8.2	8.5	7.3	5.9	6.3	7.3	7.2	7.7	6.1	6.9	6.9	4.6	2.3	2.7	2.7	3.3	3.2	2.4	8.5	1.0	5.0
Hourly Averages																											
	3.0	2.9	2.9	3.0	3.1	3.4	3.5	3.4	3.6	4.0	4.6	4.7	4.6	4.6	4.2	3.9	3.7	3.2	3.0	2.8	2.6	2.7	2.5	2.9			

Maximum Hourly Wind Speed: 13.1 **Minimum Hourly Wind Speed:** 0.0 **Average Monthly Wind Speed:** 3.5

Maximum 24-Hour Mean: 9.3 **Minimum 24-Hour Mean:** 1.5

Total Number of Observations: 672 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

FEBRUARY 2011

WIND DIRECTION (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
02/01/11	157	164	224	264	260	61	34	47	190	217	224	249	248	228	200	119	157	162	344	287	290	308	356	25
02/02/11	34	32	33	32	31	34	35	36	38	35	37	34	45	35	39	33	32	32	27	31	33	36	54	62
02/03/11	51	67	76	53	68	49	50	48	52	42	43	29	43	38	37	53	36	5	273	270	291	119	139	159
02/04/11	121	161	129	151	129	91	122	102	139	88	74	272	267	259	263	265	267	265	157	273	49	148	172	138
02/05/11	148	179	141	186	185	158	141	118	129	251	283	274	250	266	264	263	266	263	266	268	266	69	90	167
02/06/11	145	111	188	95	172	189	123	115	137	66	39	42	36	33	335	257	256	253	256	276	115	104	58	54
02/07/11	84	99	103	98	40	93	66	88	68	54	41	41	44	307	242	261	249	228	261	266	256	263	238	192
02/08/11	191	152	185	182	215	226	224	209	158	176	178	199	185	177	196	161	155	112	128	303	283	357	86	30
02/09/11	30	26	26	28	31	29	29	28	27	31	35	42	45	49	39	43	23	28	24	29	34	34	33	33
02/10/11	37	35	33	33	36	37	34	36	37	41	42	46	43	41	44	42	41	63	78	65	43	50	49	41
02/11/11	43	0	0	0	0	0	0	0	0	0	49	49	40	35	43	56	48	66	65	152	83	46	50	44
02/12/11	39	57	69	75	81	92	94	76	54	52	44	41	35	34	34	33	33	41	41	58	81	102	89	73
02/13/11	91	87	74	76	58	57	58	58	52	53	49	46	50	59	33	4	250	218	268	181	220	173	204	259
02/14/11	172	178	191	162	166	161	146	136	134	117	121	130	216	230	242	264	245	194	245	246	287	202	228	178
02/15/11	178	165	169	177	167	169	163	171	157	120	132	123	263	210	217	244	233	243	252	252	239	191	138	185
02/16/11	184	249	279	178	139	120	161	110	225	184	233	251	225	234	211	150	223	209	193	186	201	200	178	145
02/17/11	203	198	210	212	217	226	232	237	241	242	232	235	204	235	237	268	256	244	161	217	197	150	189	170
02/18/11	185	191	213	175	36	70	140	65	43	30	129	147	161	238	248	271	240	240	223	105	205	152	93	88
02/19/11	83	89	98	104	109	131	145	99	157	192	202	200	180	206	187	175	250	187	194	210	204	203	146	211
02/20/11	210	208	214	215	216	210	200	207	209	225	221	208	190	169	129	291	291	289	292	313	316	181	193	113
02/21/11	148	144	136	152	139	124	87	96	105	81	53	38	70	95	169	279	266	269	272	277	184	162	149	155
02/22/11	125	142	158	190	140	143	142	143	125	93	192	202	216	267	263	273	241	253	261	275	317	201	171	171
02/23/11	166	173	165	149	160	147	172	144	114	118	154	245	207	226	214	211	210	127	212	280	257	322	279	284
02/24/11	220	161	238	308	212	235	231	222	67	135	256	241	239	254	232	229	226	231	181	274	325	141	146	175
02/25/11	162	147	170	76	137	53	92	106	112	135	168	221	224	228	225	203	167	221	226	242	210	213	201	192
02/26/11	191	172	119	62	139	165	157	156	120	143	114	201	195	195	163	163	201	205	209	217	213	222	205	206
02/27/11	197	204	262	257	262	235	204	212	214	211	210	216	280	326	292	292	269	335	166	182	127	150	164	143
02/28/11	167	119	88	51	58	61	44	46	53	68	65	45	46	49	41	48	43	33	77	77	68	68	80	85
Hourly Averages	134	132	142	134	129	120	119	111	113	114	129	145	152	169	173	177	185	179	191	208	193	163	149	135

Total Number of Observations: 672 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

MARCH 2011

WIND SPEED (m/s)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
03/01/11	2.3	2.7	2.8	2.7	4.0	4.7	5.0	5.0	5.9	5.5	5.3	5.2	4.0	2.3	2.1	1.9	1.8	1.8	3.4	2.5	1.3	0.9	1.6	1.1	5.9	0.9	3.2
03/02/11	0.7	0.2	0.3	0.6	0.9	1.4	1.7	1.8	1.3	2.0	2.6	2.3	2.4	2.9	2.8	3.0	2.3	2.0	2.3	2.9	3.1	2.1	0.5	1.3	3.1	0.2	1.8
03/03/11	0.4	0.5	0.5	0.2	1.3	0.7	0.4	0.4	1.1	1.4	2.7	3.0	3.0	3.0	2.8	3.4	2.8	2.4	2.1	1.7	1.6	2.0	2.4	2.8	3.4	0.2	1.8
03/04/11	3.7	1.1	1.3	1.1	1.2	1.5	1.9	2.4	2.6	6.0	7.2	6.1	5.1	5.0	4.3	4.1	4.9	4.8	5.0	2.4	3.3	4.4	6.0	8.4	8.4	1.1	3.9
03/05/11	10.3	8.3	10.1	10.5	9.0	10.6	9.6	9.8	9.4	8.5	8.3	8.0	7.4	5.3	2.8	2.5	3.2	4.4	2.7	2.2	1.9	2.1	1.7	2.2	10.6	1.7	6.3
03/06/11	3.0	3.2	3.0	3.2	3.0	2.9	3.4	3.1	3.2	3.6	3.7	3.0	3.4	3.9	4.0	3.8	2.8	1.9	1.9	2.6	2.9	2.1	2.2	3.4	4.0	1.9	3.0
03/07/11	3.1	2.8	2.8	3.5	3.3	3.3	5.4	5.0	5.0	5.7	5.2	7.1	5.5	5.2	5.3	5.8	5.0	4.2	4.6	3.9	3.8	3.2	3.3	3.8	7.1	2.8	4.4
03/08/11	3.0	2.2	2.0	0.4	0.7	0.8	0.9	0.9	1.3	1.7	2.7	3.1	3.6	3.4	3.9	3.4	3.5	3.7	3.8	3.2	1.6	0.9	1.5	1.9	3.9	0.4	2.3
03/09/11	3.1	4.7	5.0	7.4	6.3	6.5	7.6	7.5	9.3	7.0	7.3	6.1	5.2	4.0	1.9	3.5	3.3	3.7	3.8	1.9	1.4	2.3	3.5	5.5	9.3	1.4	4.9
03/10/11	8.6	5.8	5.9	4.6	4.1	6.4	5.4	5.4	5.4	7.4	6.6	6.0	5.0	3.4	2.1	2.1	1.8	1.9	2.0	2.4	0.7	0.8	1.2	1.0	8.6	0.7	4.0
03/11/11	1.1	1.6	1.2	1.3	1.7	2.0	2.5	1.9	1.3	2.0	2.3	2.7	2.5	2.9	3.0	3.2	3.0	2.7	1.8	1.3	1.2	1.2	0.7	1.0	3.2	0.7	1.9
03/12/11	0.7	0.6	0.8	0.5	0.4	0.4	0.9	0.8	1.0	1.6	3.9	2.9	3.2	3.1	3.6	3.1	2.9	2.6	2.3	2.1	1.8	1.0	1.1	1.3	3.9	0.4	1.8
03/13/11	1.3	1.3	1.1	0.7	0.3	0.6	1.5	1.4	0.8	1.8	2.4	3.1	2.6	2.9	3.4	3.3	3.3	3.3	3.9	3.0	2.3	1.3	1.0	0.8	3.9	0.3	2.0
03/14/11	1.1	0.4	1.4	1.9	1.8	0.9	0.8	1.2	1.8	2.1	3.2	3.0	2.6	3.0	2.9	3.0	3.3	2.7	2.9	1.2	0.8	1.1	1.3	0.8	3.3	0.4	1.9
03/15/11	1.1	1.3	1.4	1.7	1.5	1.6	1.5	1.4	1.8	1.7	3.1	3.0	2.6	2.6	2.4	2.1	2.8	2.2	1.9	2.1	1.1	2.2	1.4	2.0	3.1	1.1	1.9
03/16/11	1.0	0.9	0.6	0.9	0.8	0.7	1.4	1.6	1.5	2.0	2.3	3.3	3.5	3.5	3.7	3.8	3.1	3.3	2.6	2.1	1.5	1.1	0.6	1.2	3.8	0.6	2.0
03/17/11	1.6	0.9	0.5	0.6	0.9	0.7	1.1	1.4	2.0	3.9	3.8	3.7	3.8	4.1	4.6	3.8	4.3	3.6	3.0	2.7	2.9	2.2	1.0	0.8	4.6	0.5	2.4
03/18/11	0.7	0.7	0.6	0.8	0.8	1.2	1.6	1.3	1.8	3.4	4.0	4.4	3.8	3.8	3.6	4.6	3.6	2.9	2.4	1.5	1.8	2.1	1.2	1.6	4.6	0.6	2.3
03/19/11	2.5	2.6	1.7	0.7	0.7	0.5	0.8	0.4	1.2	2.7	2.9	3.0	3.6	3.5	3.5	3.3	3.2	3.2	2.6	1.6	1.0	1.0	1.3	1.4	3.6	0.4	2.0
03/20/11	1.1	0.7	1.3	1.3	1.6	1.5	1.5	1.8	2.4	4.4	5.2	4.7	4.4	3.1	3.2	2.6	2.2	1.7	1.3	1.2	2.7	2.8	2.2	2.1	5.2	0.7	2.4
03/21/11	4.1	4.8	4.4	5.5	5.6	6.1	6.6	5.5	6.2	6.3	5.8	4.9	3.2	3.4	3.4	2.7	3.3	2.0	3.1	3.3	2.1	1.2	2.1	3.1	6.6	1.2	4.1
03/22/11	2.3	3.1	3.0	2.2	2.2	1.9	1.9	1.0	2.2	2.1	2.5	2.7	2.9	3.2	3.0	3.5	3.1	2.9	1.9	1.2	0.8	1.0	1.4	1.2	3.5	0.8	2.2
03/23/11	1.4	1.5	1.8	1.5	1.7	1.6	2.1	3.0	4.9	4.2	3.4	3.3	3.2	2.8	2.7	2.8	2.9	2.5	3.0	2.6	0.7	1.6	3.4	2.1	4.9	0.7	2.5
03/24/11	2.8	2.2	1.4	1.3	1.2	2.3	2.2	2.1	2.3	2.1	2.3	3.0	3.4	3.5	3.4	3.2	3.3	2.6	2.3	1.0	1.2	0.6	1.1	1.3	3.5	0.6	2.2
03/25/11	1.2	0.4	1.0	0.7	1.0	0.3	1.0	0.6	1.3	2.6	2.8	3.7	3.5	3.9	4.0	3.9	4.0	3.5	3.0	2.6	2.4	2.0	2.1	1.7	4.0	0.3	2.2
03/26/11	1.5	1.5	0.6	1.2	1.1	1.3	1.1	1.3	2.1	1.8	2.3	3.1	3.4	3.8	4.5	4.0	4.0	3.1	2.5	3.1	2.3	2.0	1.7	1.7	4.5	0.6	2.3
03/27/11	1.8	2.2	3.4	2.0	0.8	0.7	1.1	1.4	2.8	4.0	3.8	3.7	3.0	3.4	3.0	3.0	3.1	2.8	2.0	1.3	1.1	0.7	1.6	0.8	4.0	0.7	2.2
03/28/11	0.9	0.5	0.6	0.4	0.6	0.8	0.7	0.4	1.5	2.0	2.8	2.9	2.8	2.5	3.5	3.8	3.5	3.4	3.1	2.5	2.8	2.1	0.9	3.3	3.8	0.4	2.0
03/29/11	2.3	0.8	0.9	0.5	1.3	1.6	2.2	3.6	6.0	5.6	4.5	2.7	2.6	2.8	3.9	3.6	2.8	3.1	2.9	2.7	2.9	2.1	2.4	2.1	6.0	0.5	2.7
03/30/11	2.1	1.0	0.3	1.1	1.2	1.0	0.9	0.8	1.2	1.5	3.6	2.9	3.4	3.1	3.2	3.6	3.6	3.2	3.4	2.9	2.7	2.6	3.3	2.6	3.6	0.3	2.3
03/31/11	1.3	1.1	1.3	1.0	2.1	3.5	3.5	7.0	6.2	6.3	3.5	3.8	3.3	2.9	3.8	3.4	4.3	3.9	4.2	3.7	1.7	0.3	1.1	1.6	7.0	0.3	3.1
Hourly Averages	2.3	2.0	2.0	2.0	2.0	2.3	2.5	2.6	3.1	3.6	3.9	3.9	3.6	3.4	3.4	3.3	3.3	3.0	2.8	2.3	1.9	1.7	1.8	2.1			

Maximum Hourly Wind Speed: 10.6 **Minimum Hourly Wind Speed:** 0.2 **Average Monthly Wind Speed:** 2.7

Maximum 24-Hour Mean: 6.3 **Minimum 24-Hour Mean:** 1.8

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

MARCH 2011

WIND DIRECTION (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
03/01/11	101	80	88	84	56	51	53	49	47	49	44	39	73	144	111	121	207	173	253	304	221	280	243	241
03/02/11	137	101	187	155	178	165	163	168	134	95	129	241	247	241	239	235	248	234	243	256	263	271	129	274
03/03/11	107	145	161	179	230	173	214	166	139	189	243	250	249	252	237	225	244	202	210	256	273	287	280	307
03/04/11	322	334	180	194	178	175	141	74	78	48	36	42	41	34	26	41	21	24	31	86	87	97	68	55
03/05/11	46	56	50	42	49	44	48	48	46	43	44	45	47	68	102	93	55	28	60	68	83	83	106	84
03/06/11	74	67	69	67	74	82	72	70	86	77	119	120	141	223	230	188	172	142	86	37	302	303	139	203
03/07/11	189	180	179	222	210	211	210	211	210	190	209	199	106	167	187	176	133	154	189	123	100	55	124	114
03/08/11	96	72	169	107	273	47	169	90	216	253	253	246	238	268	243	253	255	274	266	262	240	144	102	113
03/09/11	93	105	80	52	74	60	60	54	46	54	50	48	42	50	95	248	260	265	269	286	150	88	91	62
03/10/11	36	49	51	64	85	54	61	56	60	46	48	43	46	124	158	103	248	232	274	249	190	104	170	179
03/11/11	165	185	158	152	155	172	190	170	128	126	191	255	260	260	249	255	247	242	140	152	346	292	285	276
03/12/11	325	210	71	76	211	164	132	94	111	129	204	237	222	205	252	243	212	226	329	206	23	183	147	139
03/13/11	141	183	180	176	178	143	191	174	113	356	271	45	255	256	230	252	269	281	268	263	277	291	282	286
03/14/11	292	345	192	240	274	206	171	158	126	130	244	246	238	258	302	219	328	229	258	309	155	235	275	113
03/15/11	247	212	195	189	234	195	155	156	112	122	262	262	259	279	217	262	277	238	252	263	288	263	212	273
03/16/11	162	210	198	189	184	158	151	119	80	113	231	223	246	230	225	202	202	186	268	313	337	117	93	213
03/17/11	230	267	268	125	165	144	131	119	111	117	127	150	208	216	217	172	188	184	38	11	299	291	12	163
03/18/11	224	93	92	118	140	137	163	130	115	118	126	187	204	217	224	206	207	208	207	231	250	252	269	234
03/19/11	239	255	256	288	167	169	146	97	85	161	237	231	235	214	258	213	124	305	281	259	265	175	287	255
03/20/11	188	208	162	159	144	122	117	114	90	122	132	144	170	231	279	281	240	204	216	175	193	182	193	218
03/21/11	187	192	193	183	192	192	191	192	192	197	211	192	158	94	201	142	194	235	266	293	49	42	207	227
03/22/11	229	208	211	258	238	231	228	130	100	145	242	217	265	252	271	277	245	292	244	229	30	194	178	181
03/23/11	173	186	172	120	122	149	156	110	58	51	74	127	147	155	160	168	208	211	249	235	236	201	228	253
03/24/11	271	256	197	193	116	224	222	253	246	255	231	244	231	231	234	240	246	210	290	282	213	191	266	268
03/25/11	340	130	159	169	195	182	256	106	111	245	234	255	219	206	215	220	208	149	215	246	276	268	273	294
03/26/11	264	309	180	172	151	151	145	123	112	125	274	200	207	223	219	223	228	204	151	252	146	138	326	287
03/27/11	219	217	222	215	86	169	172	107	99	126	127	189	242	271	268	238	239	220	216	236	296	224	288	190
03/28/11	243	234	295	116	159	192	178	122	84	255	264	247	267	291	245	238	213	211	271	284	293	299	326	328
03/29/11	315	103	281	4	187	137	129	98	47	44	38	102	246	223	227	265	255	226	260	283	275	268	279	279
03/30/11	281	280	261	286	264	159	142	112	93	340	252	260	235	270	255	246	245	261	264	258	269	280	295	342
03/31/11	202	158	184	164	115	80	73	42	42	45	43	33	279	232	249	257	260	266	267	264	305	149	169	189
Hourly Averages																								
	198	182	172	153	164	146	149	120	107	141	167	171	194	206	214	210	215	210	220	225	217	201	205	214

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-B

HOURLY SIGMA THETA DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JANUARY 2011

SIGMA THETA (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	29	22	18	16	11	15	13	11	11	21	17	24	22	20	24	19
01/02/11	17	16	16	22	25	19	18	20	19	18	19	18	14	15	12	14	16	20	20	20	18	20	19	21
01/03/11	21	20	20	16	19	20	21	26	23	18	18	21	24	74	60	57	23	15	70	26	76	22	18	21
01/04/11	21	27	24	25	25	16	13	40	19	43	87	19	24	25	23	18	11	11	52	31	31	27	27	20
01/05/11	17	19	21	15	14	12	12	17	17	32	24	22	22	20	90	20	57	23	22	15	19	15	16	17
01/06/11	18	26	21	24	27	33	27	26	31	27	24	14	14	12	13	14	13	26	21	26	24	28	22	20
01/07/11	29	22	27	25	27	20	18	17	18	18	16	24	34	53	38	31	16	14	23	43	23	28	57	40
01/08/11	40	41	31	11	68	22	44	17	30	25	50	42	50	66	73	58	61	40	40	35	45	46	25	34
01/09/11	51	30	69	52	50	24	10	24	21	23	48	34	37	45	37	50	65	32	16	28	20	13	16	42
01/10/11	25	25	38	33	27	30	88	44	30	27	41	23	28	61	27	28	33	25	34	80	79	47	28	27
01/11/11	16	17	28	28	27	20	18	22	20	22	INV	12	10	12	11	11	12	12	15	12	11	13	11	17
01/12/11	21	16	14	18	12	11	12	15	31	25	14	14	13	10	12	12	11	36	39	15	21	20	34	23
01/13/11	14	21	15	30	14	12	20	12	12	15	16	14	13	11	14	10	10	24	26	21	33	18	24	24
01/14/11	23	15	42	40	11	13	14	24	29	15	12	11	12	16	22	19	18	32	52	32	26	21	11	9
01/15/11	13	30	18	15	29	21	19	27	18	19	16	13	14	16	17	19	35	72	56	32	24	23	42	34
01/16/11	37	34	41	43	32	37	25	40	21	14	37	19	46	16	17	15	13	20	32	18	20	35	42	27
01/17/11	27	22	44	20	46	23	20	16	17	48	53	17	21	27	23	46	51	20	12	22	50	14	28	44
01/18/11	39	17	52	35	34	34	34	18	14	30	16	14	14	79	17	20	14	12	11	40	16	14	20	30
01/19/11	37	22	33	19	8	49	7	9	7	25	54	33	69	66	44	90	101	97	50	43	23	23	22	29
01/20/11	58	39	10	10	11	10	10	10	11	10	11	12	14	12	13	15	11	18	40	30	35	29	30	20
01/21/11	24	18	15	15	14	18	28	26	28	35	19	18	20	23	68	16	10	12	68	27	60	50	17	29
01/22/11	24	34	24	20	15	18	14	13	22	20	36	23	31	55	61	43	38	14	12	15	10	15	16	32
01/23/11	68	84	49	10	9	10	10	9	10	10	12	12	13	14	14	15	14	17	15	12	35	44	20	39
01/24/11	31	22	12	14	20	21	13	17	21	43	33	90	91	22	80	55	55	52	21	29	24	25	16	9
01/25/11	10	10	10	13	16	16	15	16	17	14	10	13	12	21	47	40	14	17	34	39	47	25	21	15
01/26/11	35	14	11	10	9	6	0	0	0	0	0	0	7	20	14	13	13	10	15	18	20	9	9	11
01/27/11	20	18	19	24	17	26	21	25	26	11	11	11	11	11	10	11	12	37	29	30	60	62	20	21
01/28/11	18	27	27	26	25	24	26	17	16	18	17	26	22	30	27	50	60	23	20	79	14	14	22	17
01/29/11	12	15	15	18	27	17	14	19	15	26	73	19	40	36	51	65	57	47	40	23	25	20	16	60
01/30/11	17	10	27	39	33	28	20	24	22	17	18	32	28	54	61	74	76	38	28	21	75	45	69	68
01/31/11	59	81	34	52	58	32	42	54	36	40	68	36	45	71	79	52	56	28	30	52	41	35	39	53

Total Number of Observations: 735 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

FEBRUARY 2011

SIGMA THETA (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
02/01/11	23	59	50	11	66	22	65	45	67	45	59	71	58	71	67	102	85	79	95	46	24	39	18	17
02/02/11	11	9	10	9	9	11	11	11	10	12	13	16	19	18	22	17	15	14	11	12	10	11	17	19
02/03/11	17	19	29	17	20	13	13	14	16	21	22	30	21	22	23	31	26	55	21	11	43	25	54	26
02/04/11	20	34	37	56	26	24	21	28	18	42	32	31	10	26	18	14	13	12	78	14	65	36	35	20
02/05/11	26	34	38	23	30	30	38	35	24	30	57	72	28	35	22	30	31	25	20	21	37	37	33	50
02/06/11	30	49	51	77	61	47	33	28	43	48	18	17	25	29	78	21	24	20	21	64	28	27	29	38
02/07/11	35	27	15	30	14	20	21	16	21	16	13	26	49	95	74	35	48	49	25	18	56	53	53	33
02/08/11	50	55	27	29	21	20	23	27	45	68	81	65	65	60	57	84	84	95	67	47	29	47	38	22
02/09/11	10	11	10	9	10	11	11	10	11	11	11	12	14	16	16	21	18	11	11	9	9	9	9	10
02/10/11	10	10	10	10	10	10	9	10	10	12	11	13	11	12	12	15	12	22	20	21	10	14	14	10
02/11/11	6	0	0	0	0	0	0	0	0	0	6	13	14	10	13	19	21	19	27	54	35	10	18	21
02/12/11	13	24	23	24	30	29	21	24	19	16	11	11	8	8	10	10	10	13	12	29	28	25	24	25
02/13/11	20	19	21	21	23	21	22	19	16	16	13	15	23	26	54	62	47	51	16	36	61	52	7	14
02/14/11	43	29	48	25	19	26	13	16	15	19	20	44	51	54	59	68	71	69	51	57	32	12	45	25
02/15/11	16	19	19	19	14	15	12	22	29	19	20	29	62	35	55	70	71	44	18	58	69	15	49	61
02/16/11	38	23	44	28	7	25	17	11	39	25	34	39	42	79	66	80	84	62	60	60	64	56	56	75
02/17/11	53	34	34	22	18	25	31	27	32	36	49	36	39	59	67	60	59	51	44	73	26	37	29	18
02/18/11	16	14	13	57	8	11	8	8	13	26	33	33	28	64	42	33	32	36	37	69	64	33	36	19
02/19/11	14	15	12	23	24	20	47	38	30	17	18	31	53	32	57	82	72	82	48	22	31	44	71	26
02/20/11	19	19	18	17	19	22	20	18	22	21	30	32	36	65	87	66	42	32	27	23	24	83	35	59
02/21/11	60	34	41	26	24	28	25	24	15	31	21	15	43	59	77	39	43	24	14	17	33	30	30	18
02/22/11	15	23	8	7	13	18	13	12	17	36	51	30	37	67	50	54	51	60	30	19	58	27	33	26
02/23/11	19	23	16	14	18	13	18	21	17	24	59	38	30	62	37	28	54	72	92	53	75	72	58	63
02/24/11	69	80	56	45	33	30	27	18	40	73	36	33	50	62	70	69	71	68	49	26	18	27	22	49
02/25/11	41	22	11	20	28	36	24	14	20	45	36	51	53	47	65	82	64	45	26	24	32	15	27	32
02/26/11	16	17	34	24	20	15	21	30	48	24	53	19	20	24	69	68	62	33	35	25	27	24	36	23
02/27/11	17	49	35	39	43	65	45	19	20	15	17	23	60	30	50	26	39	51	35	20	14	22	16	19
02/28/11	20	20	25	21	22	22	15	16	18	20	19	12	12	12	13	12	11	12	36	19	21	17	22	19

Total Number of Observations: 672 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

MARCH 2011

SIGMA THETA (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
03/01/11	19	22	19	21	20	17	16	16	13	14	14	12	30	46	61	38	64	26	23	71	59	67	59	23
03/02/11	46	25	19	20	22	14	17	19	43	21	45	34	41	59	44	42	54	48	36	20	17	21	24	42
03/03/11	26	17	26	22	62	37	8	25	45	79	26	30	43	49	67	53	65	74	67	48	44	35	22	27
03/04/11	21	55	30	25	30	30	22	18	17	17	14	20	19	23	34	43	27	18	13	27	22	24	17	15
03/05/11	11	17	14	11	13	10	12	11	12	11	12	12	11	52	39	46	33	9	36	26	23	23	22	20
03/06/11	16	20	21	20	19	18	17	21	16	22	18	21	32	30	44	67	80	74	54	77	46	56	75	50
03/07/11	53	62	48	28	39	22	21	27	25	41	49	48	88	80	74	75	88	81	54	57	79	63	91	71
03/08/11	71	55	55	43	29	45	56	60	63	68	35	43	35	44	44	37	34	29	20	20	60	44	39	35
03/09/11	20	16	21	17	28	25	22	25	16	19	16	18	20	26	68	28	29	14	10	64	35	42	30	33
03/10/11	10	18	18	33	36	25	25	21	20	11	13	12	17	34	52	42	52	67	38	10	54	69	28	16
03/11/11	19	19	28	13	15	19	9	16	29	22	67	33	55	95	63	70	74	84	69	61	66	24	53	47
03/12/11	46	55	31	42	43	20	60	35	23	46	27	41	49	89	75	72	61	79	92	73	73	77	42	33
03/13/11	32	28	29	27	11	26	20	15	49	77	31	50	41	57	45	47	57	43	26	18	15	32	79	45
03/14/11	51	36	37	27	75	29	19	19	22	46	20	34	66	56	61	70	81	66	62	79	56	73	63	58
03/15/11	30	66	24	19	27	81	16	25	28	42	25	38	68	55	51	54	64	56	60	25	80	74	68	22
03/16/11	71	62	31	17	15	15	17	28	26	26	40	34	57	69	55	57	60	63	62	83	50	69	57	32
03/17/11	39	37	25	13	26	25	9	12	18	19	22	38	42	48	50	69	70	82	97	81	45	38	65	47
03/18/11	37	25	41	39	10	12	17	23	21	22	25	27	48	61	64	38	68	49	37	45	26	12	28	33
03/19/11	36	41	58	46	30	24	18	23	30	63	36	50	60	69	76	84	89	56	69	48	22	31	20	63
03/20/11	33	16	30	19	16	14	10	13	20	19	20	23	29	48	51	35	45	46	44	42	15	14	21	22
03/21/11	16	21	19	19	20	14	18	17	17	21	37	45	57	61	66	78	63	69	39	27	77	56	21	15
03/22/11	29	35	54	46	43	37	29	30	29	53	37	53	51	52	83	69	58	47	68	69	67	38	35	29
03/23/11	20	19	18	40	28	28	16	35	19	20	39	32	30	45	49	53	63	69	33	35	37	53	21	35
03/24/11	25	41	67	46	78	26	38	63	28	46	50	53	60	60	53	76	83	89	64	32	69	41	60	23
03/25/11	76	28	25	24	16	15	28	11	45	28	58	60	74	73	65	69	64	72	88	78	48	40	31	35
03/26/11	66	69	39	21	14	20	20	15	26	44	41	50	44	59	60	68	65	72	73	76	90	69	80	72
03/27/11	49	44	22	62	46	47	53	35	25	22	22	38	61	61	65	44	51	48	61	74	53	40	27	57
03/28/11	23	45	25	49	61	27	25	45	29	79	38	51	42	68	62	63	57	92	64	53	24	28	43	25
03/29/11	32	60	66	57	32	34	20	39	15	16	21	43	80	78	40	48	71	66	52	36	19	21	23	22
03/30/11	23	26	14	41	70	42	36	46	26	65	24	39	57	49	53	52	53	50	39	32	20	21	20	57
03/31/11	33	17	19	32	29	38	32	11	14	14	59	39	46	49	28	36	27	32	30	19	67	33	47	28

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-C

HOURLY DIFFERENTIAL TEMPERATURE DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JANUARY 2011

10-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	-5.6	-3.9	-3.2	-2.4	-1.5	-0.3	0.4	0.7	0.6	-0.3	-1.3	-1.3	-0.8	-0.8	-1.2	-1.0	INV	INV	INV
01/02/11	-1.3	-1.4	-1.5	-1.7	-1.7	-1.5	-1.5	-1.3	-0.2	0.6	1.7	2.4	2.9	3.6	4.8	4.8	4.4	3.7	3.4	3.3	3.1	3.0	2.9	2.8	4.8	-1.7	1.5
01/03/11	2.7	2.7	2.5	2.3	1.9	1.6	1.1	1.5	2.2	3.5	5.2	6.4	7.8	8.2	8.1	7.8	7.5	6.8	5.7	4.5	4.6	4.0	3.3	3.0	8.2	1.1	4.4
01/04/11	2.8	3.6	3.0	3.6	2.7	3.1	3.4	2.5	2.8	4.8	6.7	6.9	7.2	7.2	7.1	6.8	6.5	6.1	5.8	4.8	4.7	4.3	3.5	3.5	7.2	2.5	4.7
01/05/11	3.1	3.0	2.5	2.0	2.0	1.9	1.4	1.0	2.3	4.7	6.5	7.9	9.1	10.2	11.2	10.5	10.0	8.6	8.1	7.0	7.5	7.6	7.6	7.2	11.2	1.0	6.0
01/06/11	6.9	6.7	6.2	6.4	6.0	6.9	7.2	5.8	6.5	7.6	8.5	8.7	9.6	10.5	11.0	11.2	11.2	10.4	10.2	10.0	9.1	9.0	8.7	8.5	11.2	5.8	8.5
01/07/11	8.4	7.7	6.6	7.5	7.0	5.5	5.6	6.1	7.2	8.8	10.2	11.8	13.2	13.9	13.8	13.2	12.3	11.2	9.7	8.9	8.3	8.1	7.3	7.3	13.9	5.5	9.1
01/08/11	6.2	6.0	5.5	5.6	4.6	3.8	3.2	3.5	4.0	5.5	6.5	7.3	7.5	7.6	7.6	7.7	7.5	6.7	6.1	6.0	5.9	5.4	6.1	6.0	7.7	3.2	5.9
01/09/11	6.0	6.1	5.7	4.8	3.9	3.8	3.8	3.4	3.6	5.4	6.9	7.6	8.2	8.6	9.1	9.1	8.8	8.3	8.1	8.2	8.1	8.3	8.0	7.4	9.1	3.4	6.7
01/10/11	7.1	6.4	5.9	6.1	5.1	4.6	3.6	2.5	3.2	5.0	6.5	6.8	7.2	7.6	7.8	7.9	7.6	6.9	6.4	5.6	5.1	4.2	4.2	3.5	7.9	2.5	5.7
01/11/11	3.8	3.1	2.6	2.6	1.8	1.5	1.0	1.6	3.4	4.4	6.4	INV	6.9	8.4	8.9	9.0	9.0	8.3	7.9	8.2	8.0	7.7	7.5	7.2	9.0	1.0	5.6
01/12/11	6.8	6.2	6.0	6.0	5.9	6.0	6.1	6.0	6.7	7.9	9.5	10.1	10.8	11.6	12.3	12.9	12.8	11.9	10.4	9.6	9.5	9.6	9.0	8.0	12.9	5.9	8.8
01/13/11	7.3	6.7	6.2	6.0	6.2	6.0	5.4	5.7	6.0	6.8	8.0	9.5	10.7	11.9	12.8	13.3	13.3	12.5	11.0	10.6	10.7	9.9	10.1	9.5	13.3	5.4	9.0
01/14/11	8.6	8.3	9.0	9.1	6.7	6.4	6.3	6.0	7.2	10.7	10.7	11.9	12.6	13.4	14.2	14.6	14.3	13.3	12.1	11.1	10.3	10.1	9.5	9.5	14.6	6.0	10.2
01/15/11	9.1	8.1	8.9	9.6	9.1	8.0	7.7	8.0	9.1	9.9	11.1	12.2	13.2	14.3	15.2	15.5	15.4	14.8	13.8	11.4	10.7	10.9	10.0	9.3	15.5	7.7	11.0
01/16/11	9.8	9.3	9.3	8.8	8.5	8.2	8.4	8.7	9.6	10.7	12.2	13.0	14.5	14.5	14.5	14.3	13.8	12.7	12.3	12.2	11.9	12.3	11.7	10.4	14.5	8.2	11.3
01/17/11	11.2	11.1	10.9	11.0	10.7	11.0	10.6	9.8	11.0	13.7	16.4	16.2	15.3	16.0	16.1	16.0	15.4	14.5	13.7	14.1	14.6	15.1	14.7	13.6	16.4	9.8	13.4
01/18/11	12.7	12.7	11.1	10.2	10.3	10.0	9.4	10.0	11.4	13.8	15.8	16.5	17.4	18.2	17.6	16.8	16.5	15.4	14.7	14.3	15.3	14.9	14.5	14.0	18.2	9.4	13.9
01/19/11	12.3	12.7	11.1	10.5	10.5	10.0	10.0	9.9	10.6	12.0	14.3	14.4	14.7	15.3	15.5	15.6	15.2	14.7	14.1	13.6	13.5	13.4	13.2	13.0	15.6	9.9	12.9
01/20/11	10.8	9.5	9.4	8.9	8.1	7.5	6.9	6.3	6.7	7.4	8.3	9.4	10.2	10.8	11.8	12.4	12.3	11.4	10.3	9.2	8.8	7.9	7.1	6.2	12.4	6.2	9.1
01/21/11	6.0	5.4	4.9	4.6	4.4	4.0	4.0	3.9	4.9	7.2	10.2	12.4	13.8	14.8	15.4	13.5	12.9	12.0	11.4	11.6	11.2	10.9	9.8	9.1	15.4	3.9	9.1
01/22/11	8.8	8.1	7.5	7.6	7.1	6.9	6.5	5.9	7.3	10.4	12.9	13.4	13.7	13.8	13.8	13.6	13.3	12.4	11.7	11.3	11.0	10.6	10.4	10.3	13.8	5.9	10.3
01/23/11	9.6	8.4	8.6	8.0	7.2	6.6	6.1	5.5	5.8	6.5	7.3	8.5	9.9	11.0	11.5	11.8	11.9	11.4	10.2	9.6	8.8	8.5	7.1	8.2	11.9	5.5	8.7
01/24/11	7.2	6.4	5.4	5.0	4.6	4.9	3.6	4.1	6.0	7.9	10.2	11.6	12.8	13.2	13.2	13.3	13.2	12.2	11.2	10.1	9.5	9.5	8.6	8.2	13.3	3.6	8.8
01/25/11	7.6	7.1	7.0	6.5	6.0	5.9	5.6	5.3	5.6	6.5	7.8	8.9	9.9	10.9	11.8	12.1	11.6	10.6	9.9	9.2	8.8	8.3	8.0	7.6	12.1	5.3	8.3
01/26/11	7.4	9.2	8.5	8.5	8.2	8.0	7.5	7.1	7.1	7.3	8.4	9.9	11.4	12.4	12.6	12.6	12.6	11.7	10.5	9.9	9.5	9.2	8.9	8.6	12.6	7.1	9.5
01/27/11	8.2	7.5	7.3	6.8	6.4	6.5	5.8	5.2	5.8	7.1	8.5	10.0	11.3	12.4	12.9	13.4	13.5	12.7	11.2	10.6	9.6	9.7	10.0	10.0	13.5	5.2	9.3
01/28/11	8.7	7.8	8.0	8.2	7.5	7.0	6.7	6.5	7.5	9.4	10.9	12.8	13.5	14.1	14.6	14.8	15.0	14.4	13.5	11.9	10.5	10.0	9.5	9.7	15.0	6.5	10.5
01/29/11	9.0	8.6	8.9	8.8	7.8	7.2	5.7	4.4	6.7	9.9	11.8	12.3	12.9	13.2	13.5	13.4	13.2	12.5	11.9	11.7	11.7	11.4	11.3	10.7	13.5	4.4	10.4
01/30/11	9.2	8.5	8.3	8.0	7.3	7.2	6.7	6.0	6.7	7.9	9.8	11.5	12.5	12.6	13.1	13.5	13.5	13.4	12.8	12.3	11.7	11.6	10.8	9.4	13.5	6.0	10.2
01/31/11	8.4	7.7	7.4	5.6	4.8	4.2	4.6	4.3	4.3	4.4	4.3	3.6	4.3	4.5	4.7	4.8	5.4	5.4	5.8	6.2	6.0	5.0	4.5	4.0	8.4	3.6	5.2
Hourly Averages	7.5	7.1	6.8	6.6	6.0	5.8	5.4	5.2	5.7	7.2	8.7	9.7	10.4	11.1	11.5	11.5	11.3	10.5	9.7	9.2	8.9	8.7	8.3	7.9			

Maximum Hourly Temperature: 18.2 **Minimum Hourly Temperature:** -1.7 **Average Monthly Temperature:** 8.6

Maximum 24-Hour Mean: 13.9 **Minimum 24-Hour Mean:** 1.5

Total Number of Observations: 735 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JANUARY 2011

2-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	-5.2	-3.3	-2.5	-1.5	-0.6	0.6	1.2	1.2	0.7	-0.4	-1.4	-1.4	-0.9	-0.9	-1.3	-1.2	INV	INV	INV
01/02/11	-1.4	-1.5	-1.6	-1.8	-1.8	-1.6	-1.6	-1.3	-0.1	1.0	2.3	3.1	3.6	4.3	5.3	5.2	4.5	3.6	3.3	3.2	3.0	2.9	2.8	2.7	5.3	-1.8	1.6
01/03/11	2.6	2.6	2.4	2.2	1.9	1.5	1.1	1.4	2.4	4.1	6.0	7.5	8.8	9.0	8.8	8.4	7.7	6.6	5.4	3.9	4.2	3.4	2.9	2.4	9.0	1.1	4.5
01/04/11	2.4	3.1	2.4	2.8	2.3	2.8	2.7	2.1	2.7	5.3	7.5	7.5	7.8	7.8	7.5	7.0	6.7	6.1	5.4	4.3	4.5	3.8	3.0	3.1	7.8	2.1	4.6
01/05/11	2.8	2.7	2.2	1.7	1.8	1.7	1.2	0.8	2.5	5.1	7.1	8.5	9.8	11.0	11.8	10.7	10.0	8.4	7.9	6.7	7.4	7.4	7.3	7.0	11.8	0.8	6.0
01/06/11	6.7	6.5	5.9	6.2	5.8	6.7	7.0	5.6	6.4	7.8	8.9	9.4	10.3	11.2	11.4	11.5	11.2	10.2	9.9	9.7	8.7	8.7	8.5	8.3	11.5	5.6	8.4
01/07/11	8.1	7.3	6.0	7.1	6.6	5.0	4.9	5.6	7.3	9.4	11.0	12.8	14.1	14.7	14.4	13.6	12.4	11.0	9.4	8.5	8.1	8.0	6.8	6.7	14.7	4.9	9.1
01/08/11	5.7	5.4	5.0	5.1	4.1	3.2	2.5	2.8	3.8	5.8	7.1	8.0	8.1	8.2	8.3	8.2	7.8	6.8	6.0	5.7	5.6	4.9	5.8	5.6	8.3	2.5	5.8
01/09/11	5.9	6.0	5.4	4.3	3.5	3.4	3.5	3.1	3.7	5.9	7.6	8.4	8.9	9.4	9.8	9.7	9.2	8.2	7.5	7.8	7.7	8.0	7.7	7.2	9.8	3.1	6.7
01/10/11	6.7	6.2	5.5	5.8	4.9	4.3	3.2	2.0	3.1	5.7	7.3	7.3	8.0	8.2	8.5	8.5	7.9	7.0	6.4	5.5	4.5	3.7	4.0	3.4	8.5	2.0	5.7
01/11/11	3.6	3.0	2.5	2.5	1.7	1.4	0.9	1.5	3.6	4.5	7.2	INV	9.4	11.1	10.6	10.1	9.8	8.9	8.4	8.6	8.4	8.1	7.9	7.5	11.1	0.9	6.1
01/12/11	7.1	6.5	6.2	6.2	6.1	6.2	6.3	6.1	6.9	8.5	10.3	11.1	11.9	12.6	13.2	13.7	13.0	11.7	10.2	9.5	9.4	9.5	8.9	8.0	13.7	6.1	9.1
01/13/11	7.3	6.7	6.2	6.0	6.1	6.0	5.4	5.7	6.3	7.3	8.7	10.4	11.7	12.9	13.7	13.9	13.4	12.3	10.5	10.2	10.1	9.1	9.4	9.1	13.9	5.4	9.1
01/14/11	8.3	8.1	8.5	8.5	6.2	5.7	5.7	5.6	7.4	11.0	11.2	12.5	13.3	14.2	14.8	14.9	14.3	13.1	11.9	11.0	10.2	10.0	9.4	9.4	14.9	5.6	10.2
01/15/11	9.0	8.0	8.7	9.4	8.9	7.8	7.5	7.8	9.2	10.3	11.8	13.0	14.1	15.2	16.1	16.1	15.6	14.2	13.1	10.8	10.3	10.2	9.6	8.7	16.1	7.5	11.1
01/16/11	9.3	9.0	9.1	8.5	8.2	7.9	8.0	8.5	9.8	11.0	12.6	13.7	15.1	14.9	14.8	14.6	13.9	12.7	11.8	11.5	11.2	11.6	11.0	9.8	15.1	7.9	11.2
01/17/11	10.8	10.5	10.4	10.6	9.9	10.4	10.0	9.3	11.0	14.1	16.8	16.6	16.1	16.6	16.6	16.5	15.8	14.5	13.7	14.0	14.1	14.8	14.5	13.3	16.8	9.3	13.4
01/18/11	12.2	12.0	10.1	9.4	9.5	9.2	9.0	9.8	11.6	14.3	16.4	17.3	18.4	19.1	18.1	17.2	16.7	15.4	14.5	13.7	14.5	14.3	13.6	13.4	19.1	9.0	13.7
01/19/11	11.8	11.9	10.3	10.0	10.0	9.2	9.6	9.1	10.5	12.5	14.9	15.1	15.3	16.1	16.1	16.0	15.4	14.6	14.0	13.4	13.3	13.3	13.0	12.8	16.1	9.1	12.8
01/20/11	10.3	9.2	9.2	8.8	8.0	7.4	6.8	6.2	6.9	7.8	8.9	10.2	11.1	11.6	12.6	12.9	12.5	11.2	10.1	8.9	8.4	7.7	6.8	6.0	12.9	6.0	9.1
01/21/11	5.7	5.2	4.7	4.4	4.3	3.7	3.6	3.8	5.2	7.9	11.0	13.3	14.8	15.6	16.1	13.9	13.1	12.0	10.9	10.8	10.8	10.4	9.4	8.7	16.1	3.6	9.1
01/22/11	8.5	7.9	7.1	7.0	6.7	6.5	5.7	5.3	7.4	10.9	13.6	13.9	14.5	14.5	14.4	14.1	13.6	12.5	11.7	11.2	11.0	10.6	10.4	10.3	14.5	5.3	10.4
01/23/11	8.9	7.7	8.2	7.9	7.0	6.5	6.1	5.4	5.9	6.9	7.8	9.2	10.7	11.9	12.3	12.4	12.1	11.1	9.8	9.1	8.5	8.0	6.7	7.8	12.4	5.4	8.7
01/24/11	6.8	6.0	5.0	4.4	4.0	4.3	3.0	3.5	5.9	8.5	11.0	12.3	13.7	14.1	14.0	14.0	13.4	12.1	10.7	9.8	9.2	9.4	8.5	8.1	14.1	3.0	8.8
01/25/11	7.5	6.9	6.9	6.3	5.9	5.8	5.6	5.2	5.7	6.8	8.5	10.0	11.0	12.0	12.9	12.9	11.8	10.5	9.7	8.8	8.3	8.1	7.7	7.4	12.9	5.2	8.4
01/26/11	7.2	8.8	8.3	8.3	8.0	7.8	7.3	7.0	7.2	7.7	9.0	10.7	12.3	13.2	13.3	13.1	12.8	11.5	10.2	9.7	9.3	9.1	8.7	8.5	13.3	7.0	9.5
01/27/11	8.0	7.3	7.1	6.6	6.2	6.3	5.6	5.1	6.1	7.6	9.2	10.9	12.3	13.3	13.6	14.0	13.7	12.3	10.8	10.1	9.1	9.0	9.5	9.6	14.0	5.1	9.3
01/28/11	8.4	7.5	7.6	7.9	7.2	6.7	6.5	6.2	7.6	10.0	11.8	13.8	14.5	15.2	15.5	15.5	15.4	14.2	13.0	11.4	9.8	9.3	8.9	8.8	15.5	6.2	10.5
01/29/11	8.3	8.0	8.4	8.3	7.2	6.6	4.5	3.6	6.8	10.4	12.4	12.9	13.7	13.9	14.2	14.0	13.6	12.6	11.9	11.6	11.5	10.9	10.9	9.7	14.2	3.6	10.2
01/30/11	8.6	8.0	7.6	7.4	6.9	6.7	6.1	5.1	6.4	8.6	10.7	12.5	13.5	13.3	13.8	13.9	13.8	13.4	12.5	12.1	11.7	11.6	10.8	9.5	13.9	5.1	10.2
01/31/11	8.5	7.7	7.4	5.7	4.9	4.2	4.3	3.9	4.5	4.6	4.6	4.0	4.6	4.8	4.9	5.1	5.6	5.5	5.8	6.2	5.9	4.7	4.2	3.6	8.5	3.6	5.2
Hourly Averages	7.2	6.8	6.4	6.3	5.7	5.4	5.1	4.9	5.8	7.7	9.4	10.5	11.3	11.9	12.2	12.0	11.5	10.4	9.5	8.9	8.6	8.4	8.0	7.6			

Maximum Hourly Temperature: 19.1 **Minimum Hourly Temperature:** -1.8 **Average Monthly Temperature:** 8.6

Maximum 24-Hour Mean: 13.7 **Minimum 24-Hour Mean:** 1.6

Total Number of Observations: 735 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JANUARY 2011

DIFFERENTIAL TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	-0.425	-0.611	-0.688	-0.929	-0.894	-0.883	-0.738	-0.467	-0.069	0.055	0.056	0.143	0.174	0.136	0.091	0.131	INV	INV	INV
01/02/11	0.088	0.101	0.086	0.089	0.071	0.091	0.071	0.050	-0.176	-0.482	-0.631	-0.676	-0.725	-0.664	-0.576	-0.376	-0.131	0.054	0.139	0.148	0.109	0.084	0.113	0.093	0.148	-0.725	-0.127
01/03/11	0.098	0.095	0.094	0.133	0.041	0.068	0.051	0.077	-0.154	-0.588	-0.859	-1.027	-0.922	-0.763	-0.713	-0.565	-0.179	0.117	0.250	0.684	0.348	0.544	0.463	0.574	0.684	-1.027	-0.089
01/04/11	0.460	0.469	0.624	0.750	0.366	0.311	0.715	0.488	0.068	-0.501	-0.779	-0.549	-0.601	-0.570	-0.404	-0.274	-0.163	-0.017	0.377	0.446	0.200	0.447	0.501	0.380	0.750	-0.779	0.114
01/05/11	0.306	0.288	0.350	0.265	0.210	0.240	0.189	0.202	-0.203	-0.354	-0.619	-0.650	-0.709	-0.819	-0.614	-0.190	0.023	0.230	0.256	0.230	0.169	0.232	0.307	0.209	0.350	-0.819	-0.019
01/06/11	0.202	0.261	0.260	0.162	0.198	0.187	0.186	0.191	0.103	-0.200	-0.473	-0.621	-0.714	-0.651	-0.443	-0.282	0.023	0.227	0.307	0.298	0.380	0.273	0.268	0.210	0.380	-0.714	0.015
01/07/11	0.260	0.380	0.584	0.335	0.461	0.496	0.626	0.484	-0.098	-0.506	-0.771	-1.037	-0.935	-0.748	-0.613	-0.450	-0.142	0.229	0.345	0.372	0.227	0.149	0.505	0.517	0.626	-1.037	0.028
01/08/11	0.468	0.659	0.457	0.514	0.508	0.562	0.654	0.669	0.213	-0.379	-0.617	-0.669	-0.633	-0.671	-0.702	-0.538	-0.287	-0.036	0.113	0.312	0.318	0.538	0.242	0.455	0.669	-0.702	0.090
01/09/11	0.173	0.148	0.312	0.490	0.394	0.441	0.279	0.359	-0.100	-0.585	-0.751	-0.794	-0.702	-0.756	-0.713	-0.582	-0.327	0.076	0.548	0.401	0.451	0.255	0.245	0.260	0.548	-0.794	-0.020
01/10/11	0.355	0.220	0.443	0.238	0.129	0.282	0.400	0.486	0.004	-0.702	-0.780	-0.511	-0.774	-0.593	-0.716	-0.607	-0.278	-0.055	-0.017	0.170	0.577	0.511	0.165	0.130	0.577	-0.780	-0.038
01/11/11	0.188	0.127	0.085	0.120	0.165	0.138	0.177	0.087	-0.225	-0.194	-0.790	INV	-2.473	-2.656	-1.651	-1.123	-0.819	-0.530	-0.494	-0.419	-0.385	-0.347	-0.374	-0.381	0.188	-2.656	-0.512
01/12/11	-0.325	-0.281	-0.268	-0.219	-0.214	-0.206	-0.215	-0.175	-0.266	-0.597	-0.849	-1.024	-1.098	-0.992	-0.878	-0.769	-0.253	0.215	0.160	0.176	0.061	0.114	0.075	-0.003	0.215	-1.098	-0.326
01/13/11	-0.017	-0.002	-0.029	-0.003	0.057	0.041	0.005	-0.003	-0.239	-0.547	-0.740	-0.894	-1.001	-1.011	-0.871	-0.547	-0.111	0.201	0.438	0.382	0.598	0.778	0.732	0.382	0.778	-1.011	-0.100
01/14/11	0.281	0.263	0.550	0.675	0.515	0.701	0.582	0.449	-0.205	-0.381	-0.532	-0.647	-0.683	-0.781	-0.559	-0.355	-0.023	0.207	0.173	0.124	0.121	0.069	0.122	0.105	0.701	-0.781	0.032
01/15/11	0.095	0.122	0.215	0.198	0.171	0.201	0.196	0.220	-0.106	-0.440	-0.676	-0.767	-0.952	-0.960	-0.905	-0.607	-0.174	0.577	0.645	0.563	0.403	0.681	0.368	0.605	0.681	-0.960	-0.014
01/16/11	0.460	0.302	0.290	0.280	0.276	0.334	0.417	0.255	-0.215	-0.299	-0.410	-0.673	-0.596	-0.422	-0.364	-0.252	-0.182	0.021	0.505	0.715	0.632	0.752	0.731	0.544	0.752	-0.673	0.129
01/17/11	0.384	0.570	0.493	0.418	0.799	0.553	0.578	0.437	-0.014	-0.376	-0.418	-0.446	-0.750	-0.594	-0.519	-0.496	-0.335	-0.027	0.000	0.159	0.552	0.305	0.214	0.332	0.799	-0.750	0.076
01/18/11	0.522	0.648	1.015	0.817	0.816	0.763	0.396	0.241	-0.191	-0.419	-0.560	-0.852	-1.022	-0.911	-0.512	-0.390	-0.207	-0.035	0.263	0.637	0.805	0.605	0.848	0.585	1.015	-1.022	0.161
01/19/11	0.564	0.726	0.820	0.497	0.556	0.787	0.402	0.776	0.170	-0.557	-0.634	-0.675	-0.546	-0.766	-0.623	-0.466	-0.185	0.014	0.031	0.154	0.232	0.091	0.157	0.235	0.820	-0.766	0.073
01/20/11	0.529	0.309	0.197	0.145	0.120	0.108	0.081	0.054	-0.126	-0.367	-0.595	-0.786	-0.885	-0.860	-0.756	-0.533	-0.131	0.257	0.286	0.303	0.333	0.279	0.313	0.202	0.529	-0.885	-0.063
01/21/11	0.328	0.186	0.235	0.202	0.158	0.278	0.358	0.153	-0.274	-0.633	-0.795	-0.948	-1.011	-0.849	-0.751	-0.395	-0.217	-0.022	0.455	0.763	0.433	0.484	0.374	0.472	0.763	-1.011	-0.042
01/22/11	0.330	0.233	0.396	0.549	0.434	0.362	0.776	0.614	-0.108	-0.530	-0.645	-0.525	-0.795	-0.752	-0.620	-0.482	-0.280	-0.061	-0.013	0.084	0.033	0.033	0.052	0.084	0.776	-0.795	-0.035
01/23/11	0.738	0.742	0.374	0.186	0.109	0.115	0.091	0.058	-0.127	-0.377	-0.560	-0.699	-0.882	-0.847	-0.795	-0.602	-0.161	0.270	0.487	0.446	0.249	0.463	0.362	0.347	0.742	-0.882	-0.001
01/24/11	0.400	0.425	0.449	0.554	0.618	0.605	0.582	0.621	0.146	-0.643	-0.812	-0.678	-0.984	-0.962	-0.782	-0.677	-0.186	0.140	0.413	0.299	0.273	0.108	0.098	0.115	0.621	-0.984	0.005
01/25/11	0.158	0.150	0.124	0.134	0.119	0.114	0.064	0.079	-0.051	-0.342	-0.705	-1.102	-1.150	-1.149	-1.033	-0.751	-0.174	0.144	0.186	0.359	0.487	0.249	0.241	0.219	0.487	-1.150	-0.151
01/26/11	0.283	0.340	0.271	0.203	0.183	0.189	0.213	0.104	-0.099	-0.402	-0.672	-0.835	-0.906	-0.856	-0.765	-0.531	-0.199	0.175	0.286	0.277	0.178	0.135	0.153	0.161	0.340	-0.906	-0.088
01/27/11	0.176	0.149	0.144	0.151	0.178	0.167	0.134	0.110	-0.278	-0.484	-0.713	-0.853	-0.926	-0.864	-0.713	-0.544	-0.187	0.326	0.419	0.533	0.477	0.731	0.452	0.395	0.731	-0.926	-0.043
01/28/11	0.381	0.255	0.393	0.269	0.256	0.251	0.232	0.243	-0.185	-0.549	-0.860	-0.953	-1.012	-1.066	-0.925	-0.666	-0.442	0.205	0.479	0.460	0.704	0.753	0.619	0.909	0.909	-1.066	-0.010
01/29/11	0.738	0.533	0.570	0.519	0.546	0.640	1.235	0.743	-0.132	-0.553	-0.599	-0.525	-0.776	-0.739	-0.721	-0.516	-0.337	-0.065	0.022	0.103	0.212	0.533	0.403	0.962	1.235	-0.776	0.116
01/30/11	0.580	0.433	0.635	0.564	0.467	0.498	0.579	0.893	0.364	-0.684	-0.874	-0.973	-0.942	-0.652	-0.720	-0.497	-0.341	-0.026	0.215	0.249	0.030	0.011	-0.028	-0.071	0.893	-0.973	-0.012
01/31/11	-0.055	-0.029	-0.018	-0.128	-0.073	0.053	0.290	0.332	-0.176	-0.276	-0.318	-0.372	-0.360	-0.317	-0.261	-0.368	-0.276	-0.109	-0.034	0.016	0.161	0.364	0.318	0.429	0.429	-0.372	-0.050
Hourly Averages	0.305	0.294	0.338	0.304	0.288	0.312	0.345	0.310	-0.100	-0.470	-0.669	-0.756	-0.883	-0.843	-0.708	-0.513	-0.218	0.089	0.235	0.309	0.308	0.334	0.295	0.309			

Maximum Hourly Differential Temperature: 1.235 **Minimum Hourly Differential Temperature:** -2.656

Total Number of Observations: 735 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

FEBRUARY 2011

10-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
02/01/11	3.5	3.1	2.8	2.8	2.5	1.6	2.1	2.6	2.5	3.0	3.9	4.7	4.8	5.6	6.1	6.4	6.5	6.7	6.3	5.4	4.0	2.7	0.9	-1.1	6.7	-1.1	3.7
02/02/11	-2.6	-3.3	-4.3	-5.2	-6.0	-7.1	-7.8	-8.3	-8.3	-8.0	-7.3	-6.5	-5.8	-4.8	-4.4	-4.2	-4.6	-5.3	-6.1	-6.6	-7.0	-7.3	-7.7	-8.0	-2.6	-8.3	-6.1
02/03/11	-8.5	-9.3	-9.0	-8.9	-9.4	-9.4	-9.9	-10.4	-9.8	-8.4	-7.3	-6.0	-4.0	-2.3	-0.8	0.1	0.5	0.4	-1.1	-2.1	-2.6	-4.1	-3.8	-4.3	0.5	-10.4	-5.4
02/04/11	-4.7	-4.9	-4.4	-4.5	-5.9	-4.6	-5.7	-5.0	-3.3	0.1	3.0	4.0	4.1	5.9	6.9	6.3	5.3	4.8	4.1	3.8	3.9	4.3	3.5	3.2	6.9	-5.9	0.8
02/05/11	3.2	3.6	3.0	3.0	3.0	2.4	2.2	2.5	3.0	4.7	6.3	8.0	7.7	7.9	8.2	8.2	7.9	7.4	6.8	6.4	6.0	5.6	5.0	5.1	8.2	2.2	5.3
02/06/11	5.6	5.7	7.9	8.0	7.4	7.6	6.5	6.2	7.2	8.4	9.1	10.2	11.3	12.2	12.7	12.3	12.3	11.7	10.8	10.1	7.8	8.5	9.0	8.3	12.7	5.6	9.0
02/07/11	7.8	7.6	6.9	6.3	7.7	6.4	5.9	4.8	6.9	8.5	9.8	11.6	12.7	13.3	13.9	14.2	14.0	13.1	11.8	11.0	10.4	9.8	10.1	9.7	14.2	4.8	9.8
02/08/11	9.3	8.8	9.8	10.3	10.2	9.7	9.4	8.9	9.2	9.9	10.3	10.2	10.5	11.0	11.7	11.9	11.6	11.0	10.4	9.3	8.4	7.9	5.9	5.7	11.9	5.7	9.6
02/09/11	5.3	5.0	4.6	4.3	4.0	3.7	3.1	2.7	3.2	4.1	5.0	6.4	7.8	9.0	9.7	10.3	10.4	9.7	9.0	8.2	6.5	5.2	4.8	4.4	10.4	2.7	6.1
02/10/11	3.8	3.3	2.9	2.4	2.0	1.5	1.1	0.9	1.4	2.3	3.8	5.4	6.7	8.1	9.0	9.5	9.7	9.4	7.8	7.0	7.5	6.5	6.1	6.0	9.7	0.9	5.2
02/11/11	6.1	6.1	5.3	5.3	5.0	4.7	4.6	4.7	5.3	6.2	8.0	10.1	11.3	12.7	13.6	14.2	14.7	14.2	12.9	10.9	10.2	10.5	9.8	10.2	14.7	4.6	9.0
02/12/11	10.0	9.2	8.2	8.0	7.6	7.0	6.7	7.6	8.6	9.7	11.3	12.9	14.0	15.0	15.8	16.1	16.1	15.6	14.5	13.9	13.4	13.0	12.6	12.8	16.1	6.7	11.6
02/13/11	12.3	12.1	11.5	11.0	11.1	10.9	10.5	10.2	11.0	12.5	13.6	15.6	17.5	18.3	19.0	19.8	19.8	18.4	17.0	16.1	15.1	14.3	15.3	15.7	19.8	10.2	14.5
02/14/11	13.9	13.2	12.6	12.4	11.5	11.7	10.6	9.6	11.8	14.1	16.0	17.5	18.1	18.6	18.9	18.9	18.5	17.9	17.0	16.0	15.6	14.5	15.0	13.1	18.9	9.6	14.9
02/15/11	12.6	12.2	12.0	11.3	11.3	10.7	9.4	8.0	10.4	13.9	16.4	17.5	18.2	19.1	19.4	19.5	19.0	18.0	17.0	15.9	14.8	14.4	14.1	14.3	19.5	8.0	14.6
02/16/11	13.6	14.3	12.9	11.6	10.8	10.2	10.2	9.9	11.3	12.8	13.4	14.3	15.2	15.6	15.7	15.3	14.8	14.6	14.5	14.3	14.2	14.1	13.8	13.4	15.7	9.9	13.4
02/17/11	13.0	12.4	11.8	10.6	10.0	9.3	9.1	9.1	9.1	9.1	9.1	9.7	10.9	11.4	12.2	13.1	13.0	12.6	12.0	10.8	10.2	9.3	9.9	10.5	13.1	9.1	10.8
02/18/11	11.1	10.9	10.7	9.7	8.4	8.2	8.0	8.5	9.7	10.6	12.5	13.9	14.4	14.6	13.9	13.2	13.3	13.1	12.9	12.5	14.3	13.5	11.8	11.9	14.6	8.0	11.7
02/19/11	12.0	12.2	12.1	12.1	12.0	12.3	13.2	12.4	12.9	14.0	14.3	14.5	13.4	13.6	11.4	5.9	4.5	4.8	4.9	5.2	5.3	5.1	4.3	4.6	14.5	4.3	9.9
02/20/11	4.8	4.7	4.9	4.7	4.6	4.4	4.2	4.0	4.3	4.7	5.1	4.8	4.8	4.2	2.8	1.9	1.4	1.6	2.0	2.7	2.6	1.5	1.2	1.7	5.1	1.2	3.5
02/21/11	0.9	0.9	0.5	-0.1	-0.2	-0.4	-0.1	0.5	0.5	2.4	4.3	5.6	7.1	8.0	8.8	8.8	8.6	8.0	7.0	6.4	6.2	5.7	5.9	6.0	8.8	-0.4	4.2
02/22/11	5.6	5.2	4.9	4.6	4.4	4.1	3.8	4.1	5.9	8.2	9.2	9.8	10.3	10.4	10.4	10.4	10.3	9.7	8.9	8.4	7.9	6.7	6.0	5.9	10.4	3.8	7.3
02/23/11	6.0	5.2	5.2	4.7	4.1	3.5	2.5	2.9	5.5	8.7	9.8	9.6	10.2	9.9	9.8	9.8	9.3	8.7	8.1	7.5	7.1	6.6	6.2	6.2	10.2	2.5	7.0
02/24/11	6.1	5.7	4.9	4.5	3.9	3.5	3.3	3.2	4.0	4.8	5.5	6.1	7.1	7.5	8.0	8.3	8.3	8.1	7.6	7.4	7.5	6.4	6.1	6.1	8.3	3.2	6.0
02/25/11	5.7	5.1	5.1	5.0	4.9	4.6	4.5	4.5	5.6	7.9	9.0	10.1	10.9	11.5	11.8	11.7	11.6	11.6	11.2	10.9	10.7	10.5	10.6	10.6	11.8	4.5	8.6
02/26/11	10.5	9.8	8.5	7.9	7.8	8.6	8.6	8.4	8.5	8.9	10.4	12.3	12.4	13.3	12.5	11.9	11.3	10.8	10.3	9.9	9.0	8.1	6.8	5.8	13.3	5.8	9.7
02/27/11	6.0	3.0	-0.6	-1.5	-2.1	-1.8	-1.4	-1.5	-1.4	-1.3	-1.1	-0.8	-0.8	-0.9	0.9	1.8	2.5	2.3	1.8	1.1	0.3	0.1	-0.2	-0.6	6.0	-2.1	0.1
02/28/11	-0.4	-1.7	-1.1	-0.2	-0.2	-0.2	0.7	1.1	1.9	3.0	3.9	5.5	7.4	9.1	10.8	11.6	11.8	11.7	10.3	8.4	8.6	8.4	8.5	8.2	11.8	-1.7	5.3
Hourly Averages	6.2	5.7	5.3	5.0	4.7	4.4	4.1	4.0	4.9	6.2	7.4	8.5	9.2	9.9	10.3	10.3	10.1	9.7	8.9	8.2	7.8	7.2	6.8	6.6			

Maximum Hourly Temperature: 19.8 **Minimum Hourly Temperature:** -10.4 **Average Monthly Temperature:** 7.1

Maximum 24-Hour Mean: 14.9 **Minimum 24-Hour Mean:** -6.1

Total Number of Observations: 672 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

FEBRUARY 2011

2-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
02/01/11	3.0	2.5	2.2	2.3	2.0	1.3	1.5	2.2	2.5	3.5	4.6	5.3	5.4	6.3	6.7	6.9	6.8	6.9	6.3	5.4	4.0	2.7	0.9	-1.1	6.9	-1.1	3.8
02/02/11	-2.5	-3.3	-4.3	-5.2	-6.0	-7.0	-7.7	-8.2	-7.8	-7.4	-6.4	-5.5	-4.6	-3.7	-3.4	-3.4	-4.1	-5.2	-6.0	-6.5	-7.0	-7.2	-7.7	-7.9	-2.5	-8.2	-5.8
02/03/11	-8.5	-9.2	-8.9	-8.8	-9.3	-9.4	-9.8	-10.3	-9.4	-7.6	-6.2	-4.9	-2.6	-1.1	0.2	0.9	0.9	0.4	-1.1	-2.0	-2.7	-4.3	-4.3	-4.8	0.9	-10.3	-5.1
02/04/11	-5.0	-5.3	-4.6	-4.9	-6.1	-4.7	-5.8	-4.9	-2.8	1.0	4.0	4.6	4.6	6.6	7.5	6.7	5.6	4.9	3.7	3.0	3.3	3.8	2.9	2.6	7.5	-6.1	0.9
02/05/11	2.7	2.7	2.4	2.3	2.3	1.5	1.6	2.3	3.4	5.1	6.9	8.7	8.3	8.5	8.6	8.6	8.2	7.5	6.9	6.3	5.9	5.0	4.6	4.3	8.7	1.5	5.2
02/06/11	5.0	5.0	7.0	7.5	6.8	7.1	6.1	5.8	7.2	8.8	9.7	11.2	12.2	13.2	13.6	12.8	12.6	11.7	10.6	9.6	7.3	8.0	8.5	7.9	13.6	5.0	9.0
02/07/11	7.4	7.2	6.6	6.0	7.4	6.2	5.7	4.7	7.2	9.1	10.7	12.8	14.0	14.4	14.8	14.9	14.4	13.2	11.8	10.8	9.9	9.1	9.3	8.7	14.9	4.7	9.8
02/08/11	8.4	7.9	8.9	9.7	9.9	9.6	9.2	8.9	9.5	10.4	10.8	10.8	11.3	11.8	12.4	12.5	11.9	11.1	10.4	9.2	8.3	7.5	5.6	5.6	12.5	5.6	9.6
02/09/11	5.2	4.8	4.5	4.2	3.9	3.6	3.0	2.6	3.4	4.6	5.7	7.4	8.9	10.1	10.8	11.1	10.8	9.6	8.7	8.0	6.3	5.0	4.7	4.3	11.1	2.6	6.3
02/10/11	3.7	3.2	2.8	2.3	2.0	1.4	1.0	0.9	1.7	2.9	4.7	6.4	7.8	9.2	10.0	10.3	10.1	9.4	7.6	6.7	7.2	6.3	5.9	5.8	10.3	0.9	5.4
02/11/11	5.9	6.0	5.1	5.1	4.8	4.5	4.4	4.6	5.5	6.7	8.8	11.1	12.4	13.7	14.6	14.9	15.0	14.0	12.3	10.4	9.9	10.2	9.4	9.8	15.0	4.4	9.1
02/12/11	9.7	8.9	8.0	7.7	7.3	6.7	6.4	7.5	8.9	10.2	12.1	13.9	15.0	16.1	16.8	16.8	16.5	15.3	14.1	13.4	12.9	12.4	12.2	12.4	16.8	6.4	11.7
02/13/11	11.9	11.8	11.2	10.7	10.7	10.6	10.1	10.0	11.3	13.1	14.4	16.7	18.8	19.4	20.2	20.6	20.1	18.4	16.7	15.5	14.2	13.8	14.6	14.9	20.6	10.0	14.6
02/14/11	13.2	12.4	11.9	11.4	10.5	11.0	10.1	9.1	11.7	14.7	16.9	18.4	19.0	19.4	19.7	19.6	18.9	17.9	16.9	15.2	14.6	13.6	13.7	12.2	19.7	9.1	14.7
02/15/11	11.9	11.5	11.7	10.9	10.8	10.2	8.6	7.5	10.4	14.6	17.3	18.5	18.9	20.1	20.3	20.2	19.3	18.1	16.7	15.2	13.8	13.8	13.4	13.5	20.3	7.5	14.5
02/16/11	12.9	13.9	12.5	11.1	10.3	9.9	9.8	9.4	11.3	13.4	14.1	15.0	16.1	16.4	16.5	15.8	15.1	14.8	14.5	14.3	14.1	14.2	13.8	13.4	16.5	9.4	13.4
02/17/11	13.0	12.3	11.9	10.7	10.0	9.3	9.2	9.2	9.3	9.4	9.5	10.1	11.7	12.0	12.7	13.7	13.6	12.8	11.9	10.3	9.6	9.0	9.4	9.8	13.7	9.0	10.8
02/18/11	10.4	10.2	10.2	9.0	8.1	7.8	7.6	8.2	9.8	11.0	12.9	14.5	14.9	14.9	14.1	13.3	13.4	13.1	12.9	12.4	14.1	13.5	11.7	11.7	14.9	7.6	11.6
02/19/11	11.7	11.9	11.8	11.8	11.9	12.1	12.8	11.9	12.6	14.1	14.5	14.6	13.5	13.7	11.5	6.1	4.7	4.9	5.0	5.4	5.5	5.3	4.4	4.9	14.6	4.4	9.9
02/20/11	5.2	5.2	5.0	4.8	4.7	4.5	4.4	4.2	4.6	5.2	5.6	5.2	5.0	4.5	3.0	2.1	1.7	2.0	2.6	2.7	2.5	1.2	0.8	1.2	5.6	0.8	3.7
02/21/11	0.5	0.4	0.3	-0.2	-0.3	-0.4	-0.1	0.5	0.8	2.9	5.2	6.8	8.3	9.0	9.7	9.5	9.2	8.2	7.1	6.5	6.0	5.3	5.5	5.7	9.7	-0.4	4.4
02/22/11	5.2	4.9	4.7	4.1	4.1	3.4	3.3	3.7	6.2	8.9	10.0	10.7	11.1	11.2	11.1	11.2	10.9	9.9	8.9	8.2	7.4	6.4	5.3	5.5	11.2	3.3	7.3
02/23/11	5.4	4.6	4.9	4.4	3.7	3.2	2.0	2.7	6.0	9.4	10.6	10.4	11.1	10.7	10.7	10.5	9.6	8.9	8.1	7.5	7.1	6.7	6.2	6.3	11.1	2.0	7.1
02/24/11	6.2	5.7	4.9	4.5	4.0	3.6	3.5	3.4	4.6	5.3	6.1	6.9	8.1	8.3	8.8	9.1	8.8	8.3	7.6	7.2	7.0	6.1	5.6	5.6	9.1	3.4	6.2
02/25/11	5.1	4.8	4.7	4.7	4.4	4.4	4.0	4.3	6.1	8.7	9.9	11.0	11.9	12.4	12.5	12.1	12.0	11.8	10.9	10.4	10.1	9.8	9.9	9.9	12.5	4.0	8.6
02/26/11	9.8	9.2	8.1	7.5	7.6	8.1	8.0	8.0	8.3	8.9	10.8	12.8	12.9	13.9	12.9	12.1	11.5	10.8	10.3	9.9	9.1	8.1	6.8	5.8	13.9	5.8	9.6
02/27/11	6.0	3.0	-0.5	-1.4	-2.0	-1.6	-1.3	-1.4	-1.3	-1.2	-0.9	-0.6	-0.5	-0.6	1.0	1.9	2.7	2.2	1.3	0.7	-0.2	-0.4	-0.9	-1.1	6.0	-2.0	0.1
02/28/11	-1.0	-1.9	-1.5	-0.6	-0.4	-0.4	0.3	0.9	1.9	3.2	4.1	5.7	7.8	9.5	11.2	11.9	11.8	11.4	9.8	7.9	7.9	7.8	7.9	7.4	11.9	-1.9	5.1
Hourly Averages	5.8	5.4	5.0	4.7	4.4	4.2	3.9	3.9	5.1	6.7	8.1	9.2	10.0	10.7	11.0	10.8	10.4	9.7	8.8	8.0	7.4	6.9	6.4	6.2			

Maximum Hourly Temperature: 20.6 **Minimum Hourly Temperature:** -10.3 **Average Monthly Temperature:** 7.2

Maximum 24-Hour Mean: 14.7 **Minimum 24-Hour Mean:** -5.8

Total Number of Observations: 672 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

FEBRUARY 2011

DIFFERENTIAL TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
02/01/11	0.478	0.630	0.620	0.522	0.459	0.319	0.551	0.339	-0.080	-0.458	-0.633	-0.643	-0.597	-0.644	-0.608	-0.516	-0.298	-0.112	-0.043	-0.044	-0.032	0.006	-0.006	0.017	0.630	-0.644	-0.032
02/02/11	-0.006	-0.040	-0.054	-0.046	-0.071	-0.062	-0.095	-0.130	-0.420	-0.642	-0.905	-1.014	-1.168	-1.132	-0.995	-0.776	-0.475	-0.170	-0.127	-0.091	-0.071	-0.065	-0.065	-0.067	-0.006	-1.168	-0.362
02/03/11	-0.052	-0.110	-0.067	-0.072	-0.078	-0.071	-0.083	-0.106	-0.474	-0.840	-1.112	-1.109	-1.427	-1.189	-1.032	-0.804	-0.438	-0.016	-0.004	-0.056	0.134	0.191	0.490	0.511	0.511	-1.427	-0.326
02/04/11	0.219	0.404	0.243	0.369	0.256	0.092	0.067	-0.061	-0.478	-0.865	-1.043	-0.638	-0.464	-0.719	-0.643	-0.431	-0.306	-0.103	0.333	0.791	0.629	0.524	0.621	0.589	0.791	-1.043	-0.026
02/05/11	0.522	0.839	0.677	0.683	0.684	0.812	0.596	0.243	-0.358	-0.330	-0.563	-0.682	-0.644	-0.599	-0.468	-0.411	-0.319	-0.119	-0.039	0.143	0.160	0.556	0.479	0.735	0.839	-0.682	0.108
02/06/11	0.623	0.766	0.906	0.437	0.566	0.482	0.413	0.343	-0.026	-0.459	-0.678	-0.991	-0.985	-1.013	-0.885	-0.488	-0.336	-0.030	0.261	0.445	0.496	0.465	0.468	0.422	0.906	-1.013	0.050
02/07/11	0.379	0.343	0.271	0.319	0.336	0.139	0.255	0.050	-0.300	-0.653	-0.932	-1.253	-1.259	-1.024	-0.923	-0.726	-0.410	-0.090	0.065	0.213	0.450	0.635	0.865	1.036	1.036	-1.259	-0.092
02/08/11	0.964	0.927	0.852	0.548	0.214	0.170	0.136	0.038	-0.267	-0.451	-0.547	-0.645	-0.806	-0.792	-0.721	-0.565	-0.301	-0.096	0.020	0.034	0.141	0.412	0.309	0.177	0.964	-0.806	-0.010
02/09/11	0.138	0.170	0.152	0.133	0.115	0.089	0.052	0.029	-0.212	-0.459	-0.724	-0.967	-1.053	-1.061	-1.041	-0.836	-0.403	0.128	0.323	0.274	0.133	0.135	0.125	0.084	0.323	-1.061	-0.195
02/10/11	0.095	0.078	0.052	0.084	0.076	0.045	0.068	-0.002	-0.335	-0.616	-0.845	-0.976	-1.097	-1.082	-1.015	-0.787	-0.416	0.023	0.191	0.283	0.268	0.181	0.182	0.174	0.283	-1.097	-0.224
02/11/11	0.207	0.160	0.177	0.199	0.165	0.208	0.234	0.098	-0.279	-0.569	-0.791	-0.973	-1.096	-1.048	-0.997	-0.727	-0.343	0.184	0.599	0.485	0.353	0.357	0.404	0.355	0.599	-1.096	-0.110
02/12/11	0.301	0.266	0.190	0.280	0.327	0.289	0.273	0.101	-0.267	-0.549	-0.822	-0.994	-1.034	-1.066	-0.963	-0.702	-0.327	0.240	0.362	0.407	0.511	0.544	0.367	0.316	0.544	-1.066	-0.081
02/13/11	0.341	0.307	0.282	0.318	0.382	0.329	0.323	0.150	-0.235	-0.591	-0.887	-1.175	-1.293	-1.110	-1.140	-0.853	-0.308	-0.045	0.380	0.597	0.868	0.542	0.652	0.760	0.868	-1.293	-0.059
02/14/11	0.697	0.816	0.662	0.976	0.985	0.754	0.507	0.450	0.071	-0.687	-0.929	-0.970	-0.906	-0.857	-0.740	-0.676	-0.403	-0.071	0.122	0.828	0.930	0.936	1.271	0.847	1.271	-0.970	0.192
02/15/11	0.706	0.717	0.289	0.463	0.496	0.458	0.848	0.537	-0.063	-0.651	-0.898	-0.973	-0.740	-0.995	-0.897	-0.695	-0.325	-0.051	0.367	0.760	0.992	0.630	0.717	0.826	0.992	-0.995	0.105
02/16/11	0.765	0.440	0.352	0.538	0.501	0.345	0.446	0.419	-0.004	-0.649	-0.684	-0.759	-0.892	-0.780	-0.736	-0.486	-0.246	-0.130	-0.001	0.018	0.019	-0.029	-0.009	0.005	0.765	-0.892	-0.065
02/17/11	0.000	0.027	-0.044	-0.030	-0.030	-0.052	-0.090	-0.123	-0.268	-0.299	-0.357	-0.438	-0.769	-0.542	-0.463	-0.672	-0.597	-0.199	0.075	0.525	0.605	0.343	0.542	0.688	0.688	-0.769	-0.090
02/18/11	0.762	0.722	0.566	0.652	0.346	0.357	0.403	0.350	-0.094	-0.381	-0.457	-0.568	-0.510	-0.257	-0.146	-0.107	-0.106	-0.031	-0.012	0.096	0.199	0.084	0.140	0.203	0.762	-0.568	0.092
02/19/11	0.253	0.359	0.326	0.294	0.153	0.236	0.349	0.461	0.236	-0.098	-0.161	-0.093	-0.149	-0.127	-0.153	-0.184	-0.171	-0.138	-0.123	-0.131	-0.134	-0.161	-0.182	-0.235	0.461	-0.235	0.018
02/20/11	-0.413	-0.490	-0.133	-0.069	-0.113	-0.136	-0.139	-0.140	-0.340	-0.459	-0.583	-0.337	-0.219	-0.249	-0.174	-0.228	-0.276	-0.398	-0.556	-0.018	0.108	0.266	0.427	0.464	0.464	-0.583	-0.175
02/21/11	0.406	0.591	0.261	0.107	0.112	0.006	-0.011	-0.033	-0.328	-0.581	-0.932	-1.145	-1.166	-1.019	-0.895	-0.685	-0.521	-0.216	-0.099	-0.023	0.280	0.339	0.395	0.301	0.591	-1.166	-0.202
02/22/11	0.407	0.389	0.233	0.458	0.335	0.680	0.535	0.350	-0.375	-0.697	-0.721	-0.883	-0.845	-0.835	-0.709	-0.731	-0.533	-0.179	0.012	0.115	0.490	0.346	0.653	0.401	0.680	-0.883	-0.046
02/23/11	0.651	0.552	0.348	0.261	0.389	0.305	0.490	0.163	-0.495	-0.695	-0.802	-0.745	-0.926	-0.794	-0.911	-0.697	-0.365	-0.180	-0.032	-0.017	-0.055	-0.061	-0.054	-0.091	0.651	-0.926	-0.157
02/24/11	-0.055	-0.022	0.060	0.004	-0.091	-0.093	-0.167	-0.184	-0.629	-0.584	-0.570	-0.792	-0.908	-0.760	-0.836	-0.802	-0.555	-0.244	0.023	0.146	0.515	0.328	0.457	0.547	0.547	-0.908	-0.217
02/25/11	0.540	0.273	0.324	0.343	0.429	0.190	0.497	0.182	-0.512	-0.787	-0.890	-0.916	-0.966	-0.864	-0.689	-0.444	-0.365	-0.183	0.250	0.581	0.599	0.741	0.751	0.757	0.757	-0.966	-0.007
02/26/11	0.686	0.651	0.440	0.318	0.207	0.470	0.539	0.386	0.173	-0.025	-0.398	-0.556	-0.515	-0.582	-0.407	-0.258	-0.176	-0.050	-0.009	0.012	-0.027	-0.020	-0.011	-0.016	0.686	-0.582	0.035
02/27/11	-0.078	-0.047	-0.142	-0.137	-0.135	-0.116	-0.100	-0.097	-0.104	-0.173	-0.202	-0.229	-0.268	-0.335	-0.119	-0.171	-0.206	0.109	0.512	0.423	0.462	0.584	0.670	0.508	0.670	-0.335	0.025
02/28/11	0.578	0.222	0.344	0.362	0.252	0.262	0.362	0.223	-0.006	-0.177	-0.253	-0.262	-0.342	-0.398	-0.417	-0.289	-0.040	0.371	0.515	0.505	0.682	0.558	0.559	0.753	0.753	-0.417	0.182
Hourly Averages	0.361	0.355	0.292	0.297	0.260	0.232	0.259	0.144	-0.231	-0.515	-0.690	-0.776	-0.823	-0.781	-0.704	-0.562	-0.342	-0.064	0.120	0.261	0.347	0.335	0.401	0.395			

Maximum Hourly Differential Temperature: 1.271 **Minimum Hourly Differential Temperature:** -1.427

Total Number of Observations: 672 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

MARCH 2011

10-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
03/01/11	8.2	8.3	7.9	7.6	7.9	7.8	7.7	8.1	9.3	10.5	11.8	13.6	15.4	16.7	17.0	17.2	17.2	16.9	15.5	14.2	13.1	12.5	12.7	12.4	17.2	7.6	12.1
03/02/11	11.6	11.3	11.1	10.6	10.4	10.2	10.0	8.5	10.9	13.6	15.8	16.8	17.3	17.3	17.4	17.4	17.5	16.9	15.8	15.0	14.8	14.3	13.0	13.6	17.5	8.5	13.8
03/03/11	12.2	11.8	11.4	11.5	11.6	11.0	11.2	10.8	11.6	14.1	15.1	15.7	16.4	16.9	17.0	16.9	16.6	16.1	15.4	14.7	14.4	13.9	13.5	13.2	17.0	10.8	13.9
03/04/11	13.4	12.7	10.3	10.1	9.3	9.1	7.9	8.3	10.4	12.9	13.5	14.2	15.3	15.9	16.5	17.1	17.5	17.1	15.5	14.1	13.3	12.7	11.8	11.1	17.5	7.9	12.9
03/05/11	10.9	10.0	9.5	9.1	8.7	8.6	8.0	8.3	9.0	10.7	12.4	13.6	14.9	16.2	17.0	17.4	17.3	16.6	15.3	14.1	13.1	12.5	11.7	11.4	17.4	8.0	12.3
03/06/11	11.3	10.8	10.5	10.2	9.8	9.7	9.4	9.5	11.0	13.1	14.4	15.6	17.1	18.0	18.3	18.1	17.3	16.8	16.0	15.5	15.4	15.2	15.3	15.3	18.3	9.4	13.9
03/07/11	14.9	14.4	13.7	13.2	12.8	12.0	11.3	10.7	10.5	10.8	11.0	11.2	11.4	12.1	12.5	12.8	12.8	12.3	11.6	11.1	10.3	9.9	9.3	8.6	14.9	8.6	11.7
03/08/11	7.6	7.2	6.6	6.1	5.9	5.3	5.0	4.9	6.0	7.3	8.2	9.2	9.8	10.5	11.2	11.7	12.0	11.8	11.0	10.6	10.2	8.7	8.7	8.5	12.0	4.9	8.5
03/09/11	8.3	8.7	8.7	9.4	9.2	9.2	9.6	10.1	11.2	12.4	13.9	15.5	17.4	18.6	19.8	19.7	19.4	18.8	18.0	16.9	15.4	15.3	14.9	15.6	19.8	8.3	14.0
03/10/11	16.1	15.2	15.3	14.7	13.5	14.2	13.8	13.9	14.1	14.9	16.6	18.3	19.4	21.1	22.1	22.4	22.8	22.4	21.4	20.3	18.2	17.4	16.3	16.5	22.8	13.5	17.5
03/11/11	15.4	15.6	14.0	14.6	14.2	12.3	11.2	11.8	15.1	18.3	20.0	20.0	20.6	21.2	21.3	21.3	21.1	20.4	19.6	19.0	18.6	18.4	17.9	17.9	21.3	11.2	17.5
03/12/11	17.2	16.7	14.9	14.4	13.6	14.0	13.0	12.9	14.5	16.6	17.5	18.2	18.9	19.3	19.8	19.9	20.0	19.5	18.8	18.2	17.8	16.5	14.5	14.0	20.0	12.9	16.7
03/13/11	13.4	13.2	13.3	13.5	13.1	12.4	12.7	13.3	15.2	16.9	17.4	18.8	19.4	19.9	20.2	20.5	20.5	19.9	19.0	18.3	18.1	17.9	16.7	16.7	20.5	12.4	16.7
03/14/11	16.6	16.1	14.5	15.8	15.3	14.4	13.7	14.0	15.1	17.3	18.1	18.7	19.7	20.0	19.5	20.0	19.8	19.4	18.5	17.6	16.2	16.2	16.7	16.0	20.0	13.7	17.0
03/15/11	16.3	15.1	14.6	14.7	15.7	13.9	13.4	12.8	15.3	17.8	18.5	19.1	19.3	19.4	20.0	20.1	20.1	19.6	18.9	18.4	17.6	17.2	16.8	17.7	20.1	12.8	17.2
03/16/11	16.1	16.0	15.1	14.8	14.5	13.5	13.7	14.2	15.6	17.8	19.1	19.8	20.6	21.1	21.6	21.9	22.2	22.1	21.4	20.6	20.1	19.0	18.5	19.2	22.2	13.5	18.3
03/17/11	18.5	18.0	17.6	15.7	15.0	14.9	14.6	14.7	16.3	18.1	19.5	20.6	21.9	22.3	22.9	22.9	22.9	22.7	21.4	20.2	19.2	18.7	17.7	16.4	22.9	14.6	18.9
03/18/11	16.2	14.5	14.2	14.0	14.0	13.7	13.2	12.5	15.4	17.4	18.6	19.6	20.3	21.2	21.5	21.7	21.6	21.1	20.6	19.7	18.9	17.9	17.5	17.0	21.7	12.5	17.6
03/19/11	15.8	14.9	14.5	13.8	12.3	12.1	11.4	11.4	12.6	14.9	15.6	16.3	16.7	17.1	17.2	17.3	17.0	16.3	15.7	14.9	14.3	12.7	13.8	12.4	17.3	11.4	14.6
03/20/11	11.2	11.6	10.5	11.0	10.1	10.3	10.3	10.5	12.0	14.5	15.7	17.5	18.4	18.8	18.5	18.0	18.3	18.0	17.5	16.6	17.1	16.8	16.2	15.5	18.8	10.1	14.8
03/21/11	15.4	14.7	14.6	14.4	14.3	13.9	12.7	12.0	12.1	12.5	12.7	11.5	10.6	9.3	8.3	6.8	6.2	5.1	4.6	4.0	4.5	4.8	5.2	5.1	15.4	4.0	9.8
03/22/11	4.7	4.6	4.3	4.1	4.1	4.1	4.0	4.5	5.4	6.3	7.1	8.1	8.6	9.3	9.9	9.8	9.9	9.6	9.1	8.5	7.8	6.6	5.8	6.3	9.9	4.0	6.8
03/23/11	6.0	6.0	5.3	4.2	3.7	4.0	3.3	5.2	7.9	9.2	11.1	12.6	13.7	15.0	15.9	16.6	16.4	15.5	14.3	13.0	12.6	12.4	12.5	11.0	16.6	3.3	10.3
03/24/11	10.7	10.8	10.3	9.8	9.3	9.0	8.5	7.8	8.0	9.1	10.3	11.2	11.9	12.3	12.7	13.0	13.1	13.0	12.3	11.7	10.7	10.2	10.2	9.9	13.1	7.8	10.7
03/25/11	8.9	8.2	7.7	7.5	7.4	6.8	7.2	6.9	9.2	10.0	10.8	11.0	11.5	12.1	12.5	13.0	13.1	12.7	11.4	10.5	10.1	10.0	9.9	9.7	13.1	6.8	9.9
03/26/11	9.5	9.1	7.9	7.1	6.4	6.5	5.9	7.2	9.4	11.0	11.7	13.1	13.7	14.4	14.5	14.5	14.7	14.5	14.1	13.2	12.2	11.6	10.9	10.2	14.7	5.9	11.0
03/27/11	9.8	9.5	9.0	8.2	7.7	6.9	6.3	7.2	9.5	10.5	11.6	12.7	13.7	13.9	14.4	15.0	15.2	15.1	14.5	14.0	13.6	13.2	13.3	12.5	15.2	6.3	11.5
03/28/11	12.6	11.5	11.6	10.6	10.3	9.7	9.2	10.3	12.4	13.9	14.9	15.7	16.7	17.7	17.9	18.1	18.1	17.7	16.9	16.1	15.9	15.6	15.2	15.7	18.1	9.2	14.3
03/29/11	15.6	14.4	14.3	13.5	12.1	12.3	11.4	12.8	14.8	15.8	16.7	17.8	18.6	19.7	20.1	20.3	20.3	19.6	18.7	18.1	18.0	17.7	17.5	17.3	20.3	11.4	16.6
03/30/11	17.2	16.6	16.2	15.4	14.1	12.7	12.2	13.1	15.8	17.7	17.9	18.6	19.2	19.8	20.4	20.6	20.6	20.6	20.0	19.3	18.9	19.3	19.5	19.3	20.6	12.2	17.7
03/31/11	17.4	16.5	16.2	16.0	14.5	15.0	15.4	16.9	18.2	19.0	21.1	22.2	22.7	23.8	24.2	24.7	24.5	24.1	23.5	22.8	22.0	21.3	20.5	20.4	24.7	14.5	20.1
Hourly Averages	12.9	12.4	11.8	11.5	11.0	10.6	10.2	10.5	12.1	13.7	14.8	15.7	16.5	17.1	17.5	17.6	17.6	17.2	16.3	15.5	14.9	14.4	14.0	13.8			

Maximum Hourly Temperature: 24.7 **Minimum Hourly Temperature:** 3.3 **Average Monthly Temperature:** 14.1

Maximum 24-Hour Mean: 20.1 **Minimum 24-Hour Mean:** 6.8

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

MARCH 2011

2-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
03/01/11	7.5	7.7	7.4	7.2	7.5	7.4	7.3	8.0	9.5	11.1	12.6	14.6	16.3	17.6	17.8	17.7	17.8	16.9	15.1	13.9	12.3	11.5	11.7	11.7	17.8	7.2	12.0
03/02/11	10.6	11.0	10.7	9.9	9.9	9.5	8.8	7.9	11.3	14.4	16.6	17.4	18.1	18.1	18.2	18.0	18.0	17.1	15.8	15.0	14.7	14.1	12.4	12.5	18.2	7.9	13.7
03/03/11	11.4	11.2	11.0	11.0	10.7	10.3	10.5	10.2	11.9	14.7	15.7	16.3	17.1	17.6	17.9	17.5	17.1	16.2	15.3	14.6	14.1	13.7	13.3	13.1	17.9	10.2	13.8
03/04/11	13.3	12.1	9.7	9.7	8.8	8.4	7.4	8.3	10.9	13.5	14.3	15.3	16.5	17.1	17.5	17.9	17.9	17.0	15.1	13.7	13.0	12.5	11.6	10.9	17.9	7.4	13.0
03/05/11	10.6	9.9	9.2	8.9	8.5	8.4	7.9	8.3	9.3	11.2	13.2	14.6	16.0	17.2	17.9	18.1	17.9	16.6	15.0	13.7	12.7	12.0	11.2	11.0	18.1	7.9	12.5
03/06/11	10.9	10.5	10.3	10.0	9.6	9.4	9.2	9.5	11.2	13.8	15.2	16.6	18.1	18.8	18.9	18.6	17.5	16.9	15.9	15.4	15.3	15.1	15.1	15.2	18.9	9.2	14.0
03/07/11	14.8	14.3	13.6	13.1	12.8	12.0	11.4	10.7	10.7	11.1	11.5	11.6	11.7	12.6	13.0	13.3	13.2	12.4	11.6	11.1	10.3	9.8	9.3	8.6	14.8	8.6	11.9
03/08/11	7.6	7.1	6.6	6.1	5.7	4.9	4.4	4.6	6.4	7.9	8.9	10.1	10.7	11.3	12.0	12.4	12.5	12.1	11.1	10.5	9.9	8.3	8.4	8.1	12.5	4.4	8.6
03/09/11	8.0	8.5	8.5	9.1	9.1	9.0	9.4	10.1	11.5	13.1	14.8	16.7	18.8	19.8	20.9	20.4	19.8	19.0	17.9	16.5	14.7	14.7	14.5	15.2	20.9	8.0	14.2
03/10/11	15.7	14.8	14.9	14.3	13.1	13.9	13.5	13.8	14.3	15.5	17.3	19.1	20.4	22.0	23.0	23.1	23.4	22.6	21.1	19.3	17.5	16.7	15.6	15.5	23.4	13.1	17.5
03/11/11	14.5	14.9	13.0	13.8	13.1	11.0	10.3	11.5	15.5	18.9	20.8	20.7	21.4	22.1	22.1	21.9	21.5	20.6	19.4	18.7	18.1	17.9	17.1	17.2	22.1	10.3	17.3
03/12/11	16.0	15.8	14.3	13.7	13.0	13.3	12.3	12.4	14.9	17.2	18.3	19.0	19.7	20.1	20.6	20.5	20.4	19.7	18.7	18.1	17.5	15.4	13.9	13.3	20.6	12.3	16.6
03/13/11	12.8	12.6	12.6	12.8	12.5	11.6	11.8	12.5	15.5	17.5	17.9	20.1	20.3	20.8	21.1	21.3	21.0	20.1	19.0	18.3	17.9	17.5	15.8	15.7	21.3	11.6	16.6
03/14/11	15.5	14.8	13.7	15.2	14.7	13.6	12.8	13.4	15.6	18.1	18.7	19.4	20.7	20.5	20.0	20.7	20.3	19.6	18.5	17.3	15.5	15.3	16.1	15.0	20.7	12.8	16.9
03/15/11	15.5	14.3	14.0	13.9	14.7	13.1	12.4	12.4	15.9	18.5	19.0	19.8	20.1	20.3	20.7	20.5	20.6	19.7	18.8	18.2	17.0	16.8	16.1	17.2	20.7	12.4	17.1
03/16/11	15.1	15.1	14.4	14.3	13.8	13.0	12.9	14.1	16.3	18.5	19.8	20.7	21.4	21.9	22.4	22.6	22.8	22.3	21.3	20.5	19.9	18.3	17.5	18.5	22.8	12.9	18.2
03/17/11	17.6	17.5	16.9	15.2	14.3	14.0	13.7	14.5	16.8	18.8	20.3	21.6	22.9	23.1	23.6	23.5	23.2	22.8	21.3	20.1	19.1	18.6	17.3	15.7	23.6	13.7	18.8
03/18/11	15.6	14.2	13.7	13.4	13.5	13.0	12.5	12.6	16.0	18.2	19.6	20.7	21.3	22.1	22.3	22.5	22.1	21.2	20.6	19.5	18.5	17.3	17.2	16.6	22.5	12.5	17.7
03/19/11	15.7	14.8	14.3	13.2	11.8	11.7	10.8	11.3	13.2	15.6	16.2	17.1	17.6	18.0	17.9	17.9	17.3	16.4	15.7	14.8	14.0	12.1	13.4	11.8	18.0	10.8	14.7
03/20/11	10.5	10.6	9.6	10.3	9.6	9.6	9.5	10.0	12.7	15.2	16.5	18.4	19.3	19.3	18.9	18.3	18.6	18.1	17.3	16.1	16.4	16.4	15.8	15.1	19.3	9.5	14.7
03/21/11	15.2	14.7	14.5	14.4	14.3	13.8	12.7	12.1	12.3	12.7	12.8	11.7	11.0	9.6	8.4	6.9	6.4	5.3	4.8	4.2	4.7	5.0	5.2	5.0	15.2	4.2	9.9
03/22/11	4.8	4.8	4.5	4.2	4.2	4.2	4.1	4.9	6.2	7.1	7.7	9.0	9.4	10.2	10.8	10.5	10.4	9.9	9.1	8.5	7.5	6.2	5.5	5.8	10.8	4.1	7.1
03/23/11	5.1	5.4	4.7	3.8	3.5	3.5	3.1	5.5	8.5	10.3	12.1	13.6	14.8	16.0	17.0	17.5	17.0	15.7	14.3	12.9	12.2	11.7	12.2	10.9	17.5	3.1	10.5
03/24/11	10.6	10.7	10.1	9.7	9.2	8.8	8.4	8.0	8.4	9.7	11.2	12.2	12.9	13.2	13.6	13.8	13.8	13.4	12.3	11.5	10.3	9.5	9.3	9.4	13.8	8.0	10.8
03/25/11	8.5	7.7	7.2	7.0	7.0	6.0	6.6	7.0	9.8	10.6	11.5	11.7	12.4	13.1	13.3	13.7	13.6	13.0	11.4	10.5	10.1	10.0	9.8	9.6	13.7	6.0	10.0
03/26/11	9.4	9.0	7.6	6.8	6.0	5.9	5.8	7.5	10.1	11.8	12.4	14.2	14.8	15.4	15.5	15.2	15.2	14.8	14.1	13.2	12.2	11.6	10.8	10.2	15.5	5.8	11.2
03/27/11	9.7	9.3	8.9	8.2	7.5	6.4	5.8	7.5	10.2	11.5	12.6	13.8	14.7	14.8	15.4	15.9	15.8	15.5	14.5	13.9	13.3	12.6	13.1	11.9	15.9	5.8	11.8
03/28/11	12.0	11.1	10.9	9.9	9.7	9.0	8.6	10.3	13.2	14.5	15.6	16.6	17.5	18.6	18.7	18.9	18.7	18.0	16.9	16.1	15.8	15.4	14.8	15.5	18.9	8.6	14.4
03/29/11	15.4	13.6	13.5	12.7	11.4	11.6	11.1	13.0	15.4	16.7	18.0	18.9	19.6	20.8	21.1	20.9	20.8	19.8	18.7	18.1	17.9	17.5	17.3	17.1	21.1	11.1	16.7
03/30/11	16.9	16.1	15.2	14.7	13.2	12.1	11.8	13.1	16.3	18.4	18.6	19.2	20.2	20.7	21.2	21.4	21.3	20.9	20.1	19.3	18.8	19.1	19.4	18.9	21.4	11.8	17.8
03/31/11	16.9	16.0	15.7	15.3	14.1	14.5	15.1	17.0	18.8	20.0	22.2	23.6	23.5	25.0	25.1	25.4	24.9	24.4	23.5	22.7	21.7	20.8	19.7	19.5	25.4	14.1	20.2
Hourly Averages	12.4	11.9	11.3	11.0	10.5	10.1	9.7	10.4	12.5	14.4	15.5	16.6	17.4	18.0	18.3	18.3	18.1	17.3	16.3	15.4	14.6	14.0	13.5	13.3			

Maximum Hourly Temperature: 25.4 **Minimum Hourly Temperature:** 3.1 **Average Monthly Temperature:** 14.2

Maximum 24-Hour Mean: 20.2 **Minimum 24-Hour Mean:** 7.1

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

MARCH 2011

DIFFERENTIAL TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
03/01/11	0.653	0.585	0.469	0.430	0.414	0.404	0.377	0.159	-0.208	-0.597	-0.809	-0.958	-0.907	-0.967	-0.802	-0.489	-0.547	-0.020	0.436	0.215	0.806	0.995	1.002	0.714	1.002	-0.967	0.056
03/02/11	0.968	0.354	0.489	0.707	0.512	0.712	1.172	0.593	-0.386	-0.725	-0.773	-0.628	-0.774	-0.809	-0.822	-0.639	-0.519	-0.134	0.058	0.054	0.052	0.171	0.663	1.074	1.172	-0.822	0.057
03/03/11	0.787	0.602	0.396	0.501	0.839	0.675	0.639	0.575	-0.291	-0.528	-0.532	-0.637	-0.698	-0.704	-0.815	-0.659	-0.461	-0.161	0.064	0.093	0.254	0.219	0.176	0.152	0.839	-0.815	0.020
03/04/11	0.147	0.595	0.571	0.405	0.444	0.701	0.499	-0.011	-0.502	-0.602	-0.803	-1.086	-1.236	-1.176	-0.990	-0.805	-0.458	0.040	0.393	0.317	0.304	0.259	0.228	0.202	0.701	-1.236	-0.107
03/05/11	0.237	0.173	0.203	0.202	0.189	0.202	0.167	-0.061	-0.313	-0.541	-0.877	-1.022	-1.079	-1.081	-0.921	-0.740	-0.564	-0.033	0.288	0.379	0.445	0.495	0.529	0.466	0.529	-1.081	-0.136
03/06/11	0.330	0.307	0.245	0.220	0.236	0.275	0.236	0.083	-0.226	-0.709	-0.772	-0.979	-0.972	-0.826	-0.613	-0.512	-0.232	-0.040	0.129	0.117	0.078	0.129	0.233	0.083	0.330	-0.979	-0.133
03/07/11	0.096	0.025	0.061	0.055	-0.012	-0.008	-0.052	-0.076	-0.167	-0.324	-0.527	-0.432	-0.337	-0.554	-0.492	-0.519	-0.368	-0.148	-0.019	0.011	0.029	0.058	0.038	0.047	0.096	-0.554	-0.151
03/08/11	0.027	0.111	0.035	0.008	0.135	0.352	0.598	0.246	-0.348	-0.610	-0.659	-0.864	-0.865	-0.820	-0.835	-0.727	-0.532	-0.266	-0.062	0.047	0.341	0.435	0.344	0.416	0.598	-0.865	-0.146
03/09/11	0.270	0.204	0.189	0.255	0.174	0.229	0.166	-0.013	-0.311	-0.657	-0.897	-1.223	-1.322	-1.219	-1.105	-0.724	-0.450	-0.181	0.082	0.375	0.697	0.670	0.423	0.444	0.697	-1.322	-0.164
03/10/11	0.374	0.368	0.391	0.449	0.375	0.314	0.256	0.067	-0.213	-0.559	-0.691	-0.777	-1.031	-0.872	-0.934	-0.705	-0.595	-0.137	0.272	0.962	0.709	0.792	0.710	0.987	0.987	-1.031	0.021
03/11/11	0.869	0.677	1.046	0.758	1.190	1.298	0.891	0.299	-0.396	-0.626	-0.771	-0.686	-0.782	-0.958	-0.772	-0.631	-0.440	-0.161	0.181	0.293	0.461	0.518	0.778	0.613	1.298	-0.958	0.152
03/12/11	1.218	0.947	0.586	0.654	0.635	0.732	0.695	0.433	-0.427	-0.593	-0.808	-0.764	-0.808	-0.781	-0.766	-0.623	-0.453	-0.171	0.111	0.149	0.347	1.091	0.656	0.629	1.218	-0.808	0.112
03/13/11	0.567	0.594	0.617	0.705	0.600	0.797	0.868	0.742	-0.286	-0.585	-0.504	-1.265	-0.872	-0.933	-0.955	-0.725	-0.499	-0.221	0.017	0.051	0.186	0.386	0.842	1.042	1.042	-1.265	0.049
03/14/11	1.055	1.359	0.828	0.559	0.681	0.807	0.881	0.563	-0.504	-0.716	-0.573	-0.722	-1.011	-0.554	-0.533	-0.762	-0.436	-0.171	0.013	0.257	0.638	0.897	0.607	1.042	1.359	-1.011	0.175
03/15/11	0.778	0.775	0.668	0.831	0.954	0.751	0.967	0.413	-0.525	-0.745	-0.479	-0.706	-0.758	-0.869	-0.769	-0.420	-0.487	-0.114	0.090	0.135	0.550	0.445	0.704	0.524	0.967	-0.869	0.113
03/16/11	0.931	0.865	0.725	0.578	0.712	0.477	0.759	0.117	-0.670	-0.731	-0.769	-0.900	-0.747	-0.846	-0.791	-0.698	-0.580	-0.181	0.092	0.148	0.244	0.723	1.001	0.745	1.001	-0.900	0.050
03/17/11	0.907	0.437	0.663	0.474	0.688	0.861	0.885	0.205	-0.481	-0.675	-0.851	-0.966	-0.939	-0.764	-0.715	-0.625	-0.328	-0.134	0.075	0.150	0.080	0.146	0.384	0.732	0.907	-0.966	0.009
03/18/11	0.651	0.369	0.466	0.547	0.503	0.668	0.707	-0.059	-0.578	-0.775	-0.965	-1.053	-0.949	-0.903	-0.785	-0.781	-0.482	-0.130	0.075	0.213	0.338	0.596	0.289	0.458	0.707	-1.053	-0.066
03/19/11	0.160	0.087	0.132	0.594	0.543	0.420	0.518	0.091	-0.582	-0.687	-0.669	-0.757	-0.921	-0.945	-0.774	-0.605	-0.375	-0.138	-0.019	0.168	0.368	0.648	0.479	0.603	0.648	-0.945	-0.069
03/20/11	0.615	1.001	0.897	0.717	0.490	0.721	0.823	0.550	-0.629	-0.657	-0.851	-0.901	-0.880	-0.546	-0.422	-0.281	-0.344	-0.091	0.269	0.512	0.686	0.448	0.362	0.365	1.001	-0.901	0.119
03/21/11	0.129	0.065	0.069	0.041	0.031	0.044	-0.045	-0.112	-0.215	-0.144	-0.175	-0.142	-0.371	-0.296	-0.155	-0.181	-0.169	-0.192	-0.167	-0.173	-0.196	-0.240	0.032	0.075	0.129	-0.371	-0.104
03/22/11	-0.054	-0.132	-0.124	-0.133	-0.134	-0.122	-0.090	-0.337	-0.816	-0.774	-0.628	-0.889	-0.805	-0.822	-0.915	-0.701	-0.560	-0.353	-0.006	0.052	0.296	0.435	0.340	0.444	0.444	-0.915	-0.285
03/23/11	0.811	0.535	0.611	0.372	0.230	0.494	0.235	-0.262	-0.598	-1.086	-1.085	-0.976	-1.150	-1.056	-1.048	-0.858	-0.615	-0.278	-0.006	0.091	0.348	0.674	0.286	0.124	0.811	-1.150	-0.175
03/24/11	0.066	0.080	0.145	0.143	0.160	0.179	0.026	-0.195	-0.395	-0.608	-0.853	-0.993	-0.976	-0.946	-0.879	-0.737	-0.675	-0.364	-0.038	0.177	0.349	0.697	0.861	0.565	0.861	-0.993	-0.175
03/25/11	0.445	0.482	0.428	0.474	0.345	0.793	0.574	-0.130	-0.612	-0.584	-0.725	-0.743	-0.895	-0.988	-0.804	-0.717	-0.523	-0.282	-0.069	-0.016	0.008	0.035	0.053	0.090	0.793	-0.988	-0.140
03/26/11	0.103	0.095	0.319	0.366	0.466	0.544	0.175	-0.363	-0.714	-0.867	-0.687	-1.082	-1.099	-1.006	-0.944	-0.717	-0.534	-0.296	-0.028	-0.014	0.018	0.056	0.059	0.071	0.544	-1.099	-0.253
03/27/11	0.102	0.140	0.100	0.039	0.154	0.506	0.517	-0.310	-0.687	-0.916	-1.068	-1.079	-0.974	-0.903	-0.980	-0.901	-0.607	-0.394	-0.005	0.144	0.288	0.586	0.203	0.625	0.625	-1.079	-0.226
03/28/11	0.555	0.454	0.714	0.695	0.539	0.694	0.574	-0.006	-0.787	-0.564	-0.616	-0.909	-0.875	-0.933	-0.847	-0.736	-0.537	-0.271	-0.028	0.051	0.059	0.116	0.315	0.186	0.714	-0.933	-0.090
03/29/11	0.219	0.797	0.844	0.757	0.731	0.689	0.273	-0.227	-0.578	-0.936	-1.289	-1.107	-0.994	-1.130	-0.963	-0.646	-0.515	-0.208	-0.025	-0.014	0.058	0.207	0.179	0.231	0.844	-1.289	-0.152
03/30/11	0.213	0.492	1.008	0.687	0.829	0.568	0.425	-0.052	-0.563	-0.767	-0.651	-0.649	-0.933	-0.853	-0.823	-0.784	-0.628	-0.314	-0.039	0.020	0.092	0.114	0.134	0.308	1.008	-0.933	-0.090
03/31/11	0.480	0.417	0.549	0.739	0.443	0.424	0.278	-0.121	-0.567	-0.968	-1.105	-1.338	-0.765	-1.149	-0.846	-0.713	-0.432	-0.270	-0.010	0.060	0.321	0.575	0.754	0.894	0.894	-1.338	-0.098
Hourly Averages	0.474	0.447	0.463	0.446	0.455	0.523	0.484	0.090	-0.470	-0.673	-0.757	-0.878	-0.894	-0.878	-0.800	-0.657	-0.482	-0.188	0.069	0.162	0.299	0.431	0.441	0.482			

Maximum Hourly Differential Temperature: 1.359 **Minimum Hourly Differential Temperature:** -1.338

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-D

HOURLY TEMPERATURE DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JANUARY 2011

TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	-5.3	-3.4	-2.8	-2.0	-1.3	-0.1	0.6	0.8	0.4	-0.9	-1.9	-1.9	-1.4	-1.4	-1.8	-1.6	INV	INV	INV
01/02/11	-1.8	-1.9	-2.1	-2.3	-2.3	-2.1	-2.0	-1.8	-0.4	0.7	1.9	2.6	3.0	3.7	4.8	4.7	4.1	3.1	2.8	2.7	2.5	2.4	2.3	2.2	4.8	-2.3	1.1
01/03/11	2.2	2.1	1.9	1.7	1.3	1.0	0.6	0.9	2.2	4.0	5.7	7.2	8.8	9.0	9.0	8.6	7.6	6.2	5.0	3.4	3.8	2.9	2.4	1.9	9.0	0.6	4.1
01/04/11	1.9	2.5	1.9	2.3	1.8	2.3	2.2	1.7	2.9	6.3	7.9	7.3	7.5	7.5	7.2	6.7	6.3	5.6	5.0	3.8	3.8	3.3	2.5	2.6	7.9	1.7	4.3
01/05/11	2.3	2.3	1.7	1.3	1.3	1.2	0.7	0.4	2.3	4.9	6.8	8.1	9.4	10.7	11.8	10.6	9.9	7.9	7.4	6.3	6.9	6.9	6.8	6.5	11.8	0.4	5.6
01/06/11	6.2	6.0	5.4	5.7	5.3	6.3	6.6	5.2	5.9	7.5	8.6	8.7	9.6	10.6	10.9	11.1	10.8	9.8	9.5	9.2	8.3	8.2	8.0	7.8	11.1	5.2	8.0
01/07/11	7.6	6.9	5.5	6.6	6.1	4.6	4.5	5.2	7.2	9.5	11.0	12.8	14.2	14.7	14.4	13.7	12.1	10.5	8.9	8.0	7.7	7.5	6.4	6.4	14.7	4.5	8.8
01/08/11	5.1	4.8	4.3	4.4	3.8	2.7	1.9	2.4	4.7	6.0	7.5	8.0	7.9	8.1	8.3	8.4	7.8	6.3	5.5	5.1	5.1	4.3	5.3	5.1	8.4	1.9	5.5
01/09/11	5.4	5.5	5.0	3.8	2.9	2.8	2.9	2.6	4.9	6.7	7.8	8.5	8.8	9.3	9.8	9.7	9.2	7.8	7.0	7.3	7.2	7.6	7.3	6.7	9.8	2.6	6.5
01/10/11	6.2	5.7	4.9	5.4	4.5	3.8	2.8	1.7	3.8	6.4	7.7	7.0	7.8	8.1	8.2	8.4	7.7	6.5	5.9	5.0	4.1	3.3	3.6	2.9	8.4	1.7	5.5
01/11/11	3.2	2.6	2.1	2.0	1.2	0.9	0.3	1.0	3.3	4.1	5.5	6.8	7.8	9.4	9.7	9.7	9.4	8.5	7.9	8.2	8.0	7.7	7.5	7.1	9.7	0.3	5.6
01/12/11	6.7	6.0	5.8	5.7	5.6	5.7	5.8	5.7	6.5	8.2	9.8	10.5	11.3	12.0	12.7	13.5	12.8	11.4	9.8	9.1	9.0	9.1	8.5	7.6	13.5	5.6	8.7
01/13/11	6.9	6.3	5.8	5.5	5.7	5.6	5.0	5.3	5.8	6.8	8.2	9.7	11.0	12.3	13.2	13.5	13.3	11.9	10.1	9.8	9.7	8.7	9.0	8.7	13.5	5.0	8.7
01/14/11	7.9	7.6	8.1	8.1	5.9	5.4	5.3	5.3	7.2	10.7	10.6	11.8	12.6	13.6	14.3	14.6	14.0	12.7	11.5	10.6	9.7	9.6	9.0	8.9	14.6	5.3	9.8
01/15/11	8.6	7.6	8.3	9.1	8.5	7.3	7.1	7.4	8.9	10.1	11.3	12.4	13.5	14.7	15.7	16.0	15.9	13.9	12.8	10.4	9.9	9.8	9.2	8.3	16.0	7.1	10.7
01/16/11	8.9	8.5	8.7	8.1	7.8	7.5	7.6	8.1	9.6	10.7	12.4	13.8	14.9	14.6	14.5	14.2	13.5	12.2	11.3	11.0	10.8	11.1	10.5	9.4	14.9	7.5	10.8
01/17/11	10.3	10.1	9.9	10.1	9.4	10.0	9.6	9.0	11.0	14.5	17.0	16.3	15.8	16.4	16.3	16.6	15.9	14.1	13.1	13.5	13.6	14.4	14.0	12.8	17.0	9.0	13.1
01/18/11	11.8	11.5	9.8	8.9	9.2	8.8	8.5	9.4	11.4	14.1	15.9	16.7	17.7	18.9	17.8	16.9	16.5	14.9	14.0	13.2	14.0	13.9	13.1	12.6	18.9	8.5	13.3
01/19/11	11.2	11.2	9.7	9.3	9.3	8.6	8.9	8.7	11.7	13.5	15.1	14.9	15.1	16.2	16.0	16.0	15.3	14.2	13.5	12.9	12.8	12.8	12.5	12.3	16.2	8.6	12.6
01/20/11	9.9	8.7	8.8	8.3	7.5	7.0	6.4	5.7	6.3	7.2	8.1	9.4	10.3	10.8	11.9	12.5	12.1	10.8	9.6	8.4	8.0	7.2	6.3	5.5	12.5	5.5	8.6
01/21/11	5.2	4.7	4.2	3.9	3.8	3.2	3.1	3.4	5.1	7.6	10.6	12.8	14.4	15.1	16.0	13.5	12.7	11.5	10.4	10.3	10.3	10.0	8.9	8.2	16.0	3.1	8.7
01/22/11	8.0	7.4	6.7	6.6	6.2	6.1	5.3	4.9	7.4	11.5	14.6	13.7	14.4	14.4	14.3	14.1	13.5	12.0	11.2	10.7	10.5	10.1	9.8	9.8	14.6	4.9	10.1
01/23/11	8.6	7.3	7.8	7.4	6.6	6.1	5.6	5.0	5.4	6.3	7.1	8.4	9.9	11.1	11.6	11.9	11.8	10.7	9.4	8.7	8.1	7.5	6.3	7.4	11.9	5.0	8.2
01/24/11	6.3	5.6	4.6	4.0	3.6	3.9	2.6	3.1	6.0	8.7	11.5	12.7	13.7	13.5	13.9	14.1	13.4	11.7	10.4	9.3	8.8	8.9	8.0	7.6	14.1	2.6	8.6
01/25/11	7.0	6.5	6.4	5.9	5.4	5.3	5.1	4.7	5.2	6.3	7.8	9.3	10.3	11.5	13.1	13.0	11.4	10.0	9.2	8.3	7.8	7.6	7.2	6.9	13.1	4.7	8.0
01/26/11	6.7	8.5	7.9	7.9	7.5	7.4	6.9	6.5	6.6	7.0	8.4	10.1	11.6	12.6	12.7	12.6	12.4	11.1	9.8	9.2	8.9	8.6	8.3	8.0	12.7	6.5	9.0
01/27/11	7.6	6.9	6.7	6.1	5.7	5.8	5.2	4.7	5.8	7.1	8.5	10.1	11.4	12.5	12.9	13.5	13.4	12.0	10.3	9.6	8.7	8.6	9.1	9.2	13.5	4.7	8.8
01/28/11	7.9	7.0	7.1	7.5	6.8	6.2	6.0	5.8	7.4	9.7	11.3	13.5	14.2	15.0	15.4	15.8	16.0	13.9	12.5	10.9	9.1	8.7	8.2	8.2	16.0	5.8	10.2
01/29/11	7.4	7.2	7.6	7.3	6.6	6.0	4.1	3.3	7.1	11.4	12.9	12.6	13.5	13.7	14.1	14.1	13.6	12.2	11.3	11.1	11.0	10.2	10.4	9.3	14.1	3.3	9.9
01/30/11	7.8	7.2	6.8	6.7	6.1	5.9	5.5	4.7	6.2	9.0	10.6	12.1	13.2	13.0	13.7	13.9	13.9	13.0	12.0	11.6	11.2	11.1	10.3	9.0	13.9	4.7	9.8
01/31/11	8.0	7.2	7.0	5.2	4.4	3.8	3.8	3.7	5.0	4.3	4.3	3.7	4.3	4.4	4.5	4.9	5.2	5.1	5.3	5.7	5.4	4.2	3.7	3.1	8.0	3.1	4.8
Hourly Averages	6.7	6.3	5.9	5.8	5.3	5.0	4.6	4.5	5.7	7.7	9.1	10.0	10.9	11.5	11.9	11.8	11.4	10.0	9.1	8.4	8.2	7.9	7.5	7.1			

Maximum Hourly Temperature: 18.9 **Minimum Hourly Temperature:** -2.3 **Average Monthly Temperature:** 8.2

Maximum 24-Hour Mean: 13.3 **Minimum 24-Hour Mean:** 1.1

Total Number of Observations: 736 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

FEBRUARY 2011

TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
02/01/11	2.5	2.0	1.8	1.5	1.6	0.6	1.0	1.8	2.3	3.7	4.5	5.2	5.2	6.0	6.3	6.6	6.5	6.3	5.8	4.9	3.5	2.2	0.4	-1.6	6.6	-1.6	3.4
02/02/11	-3.1	-3.8	-4.8	-5.7	-6.5	-7.6	-8.2	-8.8	-8.5	-8.1	-7.2	-6.3	-5.5	-4.5	-4.1	-4.1	-4.7	-5.7	-6.6	-7.1	-7.5	-7.8	-8.2	-8.5	-3.1	-8.8	-6.4
02/03/11	-9.0	-9.8	-9.5	-9.4	-9.9	-9.9	-10.3	-10.8	-9.9	-8.1	-6.7	-5.5	-3.3	-1.8	-0.4	0.6	0.7	0.2	-1.6	-2.6	-3.3	-4.7	-5.0	-5.3	0.7	-10.8	-5.6
02/04/11	-5.5	-5.8	-5.2	-5.4	-6.6	-5.2	-6.3	-5.3	-3.0	0.9	3.9	4.6	4.1	6.4	7.2	6.3	5.2	4.5	3.2	2.5	2.8	3.2	2.5	2.0	7.2	-6.6	0.5
02/05/11	2.1	2.1	1.8	1.8	1.7	1.1	1.2	2.0	4.0	5.1	6.9	9.0	8.0	8.2	8.2	8.2	8.0	7.0	6.3	5.8	5.4	4.4	4.0	3.8	9.0	1.1	4.8
02/06/11	4.5	4.5	6.5	7.1	6.4	6.6	5.7	5.5	7.0	8.6	9.2	10.5	11.7	12.6	13.2	12.5	12.4	11.3	10.1	9.2	6.9	7.5	8.1	7.5	13.2	4.5	8.5
02/07/11	7.0	6.8	6.1	5.6	7.0	5.8	5.2	4.3	6.9	8.7	10.0	12.4	13.9	14.3	14.7	15.0	14.5	13.0	11.3	10.4	9.4	8.7	8.6	8.1	15.0	4.3	9.5
02/08/11	7.9	7.3	8.6	9.3	9.5	9.1	8.8	8.5	9.5	10.2	10.6	10.5	11.0	11.5	12.1	12.2	11.6	10.7	9.9	8.8	7.7	7.0	5.1	5.1	12.2	5.1	9.3
02/09/11	4.7	4.4	4.0	3.7	3.4	3.2	2.6	2.1	2.9	3.9	4.9	6.5	8.0	9.3	10.0	10.6	10.5	9.2	8.3	7.6	5.9	4.6	4.2	3.8	10.6	2.1	5.8
02/10/11	3.2	2.7	2.3	1.8	1.5	0.9	0.6	0.4	1.1	2.2	3.8	5.6	6.9	8.4	9.3	9.7	9.7	9.0	7.1	6.2	6.8	5.9	5.4	5.4	9.7	0.4	4.8
02/11/11	5.5	5.5	4.7	4.6	4.4	4.0	4.0	4.2	5.0	6.1	8.1	10.3	11.6	12.9	13.9	14.5	14.8	13.8	11.8	9.9	9.4	9.8	9.1	9.5	14.8	4.0	8.6
02/12/11	9.3	8.5	7.6	7.2	6.8	6.3	5.9	7.2	8.5	9.7	11.4	13.1	14.2	15.2	16.0	16.1	16.1	15.0	13.8	13.0	12.4	11.9	11.7	12.0	16.1	5.9	11.2
02/13/11	11.4	11.3	10.7	10.2	10.3	10.1	9.7	9.7	10.9	12.6	13.8	16.1	18.2	19.1	20.2	21.1	20.5	18.1	16.2	15.0	13.7	13.1	13.7	14.2	21.1	9.7	14.2
02/14/11	12.6	11.8	11.4	10.8	9.9	10.4	9.6	9.0	12.2	15.3	16.8	18.4	18.9	19.3	19.7	19.5	19.0	17.9	16.3	14.6	14.1	12.7	13.0	11.6	19.7	9.0	14.4
02/15/11	11.2	10.9	10.9	10.2	10.2	9.6	8.1	7.2	10.6	14.8	17.5	18.6	18.8	19.9	20.2	20.2	19.2	18.0	16.2	14.7	13.4	12.9	12.5	12.9	20.2	7.2	14.1
02/16/11	12.0	13.3	12.1	10.4	9.6	9.0	9.1	9.4	11.5	13.3	13.9	14.8	15.8	16.2	16.1	15.5	14.7	14.4	14.0	13.7	13.6	13.6	13.3	12.9	16.2	9.0	13.0
02/17/11	12.4	11.9	11.3	10.2	9.5	8.8	8.7	8.7	9.0	9.1	9.1	9.9	11.5	11.7	12.5	13.7	13.6	12.8	11.4	9.9	9.0	8.5	8.9	9.3	13.7	8.5	10.5
02/18/11	10.0	9.8	9.8	8.7	7.3	7.1	6.7	8.1	10.3	10.9	12.8	14.2	14.5	14.6	13.6	12.9	13.0	12.6	12.4	11.9	13.6	13.0	11.2	11.2	14.6	6.7	11.3
02/19/11	11.2	11.4	11.3	11.3	11.4	11.6	12.4	11.4	12.2	13.6	13.9	14.0	13.0	13.1	11.0	5.6	4.1	4.3	4.5	4.8	4.9	4.8	3.9	4.4	14.0	3.9	9.3
02/20/11	4.7	4.7	4.5	4.3	4.1	4.0	3.8	3.6	4.2	4.8	5.3	4.6	4.5	4.0	2.4	1.6	1.2	1.6	2.0	2.2	2.0	0.8	0.3	0.6	5.3	0.3	3.2
02/21/11	0.0	-0.1	-0.2	-0.7	-0.7	-0.9	-0.6	0.0	0.4	2.6	4.8	6.1	8.1	9.0	9.7	9.4	9.0	8.0	6.5	6.0	5.4	4.9	4.8	5.2	9.7	-0.9	4.0
02/22/11	4.7	4.2	4.0	3.4	3.5	2.9	2.8	3.9	7.2	9.6	10.0	10.4	10.9	11.0	10.9	11.1	11.0	9.8	8.4	7.8	7.0	5.8	4.8	4.9	11.1	2.8	7.1
02/23/11	4.8	4.1	4.3	3.8	3.2	2.7	1.6	2.5	6.1	9.8	10.5	10.2	10.7	10.3	10.5	10.1	9.4	8.6	7.6	7.0	6.7	6.2	5.8	5.8	10.7	1.6	6.8
02/24/11	5.7	5.2	4.4	4.1	3.6	3.2	3.0	3.1	4.8	5.6	6.1	6.8	7.8	8.1	8.6	8.9	8.9	8.2	7.1	6.7	6.4	5.5	5.0	5.0	8.9	3.0	5.9
02/25/11	4.6	4.2	4.1	3.9	3.8	3.6	3.4	4.5	7.0	8.9	9.9	11.0	11.8	12.2	12.4	11.9	11.9	11.7	10.5	9.8	9.4	9.4	9.5	9.5	12.4	3.4	8.3
02/26/11	9.5	8.8	7.6	6.9	6.8	7.6	7.6	7.6	8.0	8.7	10.6	12.4	12.5	13.4	12.6	11.8	11.1	10.4	9.8	9.4	8.5	7.6	6.4	5.3	13.4	5.3	9.2
02/27/11	5.5	2.6	-1.1	-1.9	-2.5	-2.1	-1.7	-1.9	-1.8	-1.6	-1.3	-0.9	-0.9	-1.3	0.7	1.1	2.4	1.6	0.5	-0.1	-0.9	-1.3	-1.6	-1.7	5.5	-2.5	-0.4
02/28/11	-1.7	-2.5	-2.0	-1.0	-0.9	-0.9	-0.1	0.6	1.7	3.1	4.1	5.4	7.4	9.1	10.7	11.6	11.5	11.2	9.5	7.5	7.5	7.4	7.5	7.0	11.6	-2.5	4.7
Hourly Averages	5.3	4.9	4.5	4.2	3.9	3.6	3.4	3.5	5.0	6.6	7.8	8.8	9.6	10.3	10.6	10.5	10.2	9.4	8.3	7.5	6.9	6.3	5.9	5.7			

Maximum Hourly Temperature: 21.1 **Minimum Hourly Temperature:** -10.8 **Average Monthly Temperature:** 6.8

Maximum 24-Hour Mean: 14.4 **Minimum 24-Hour Mean:** -6.4

Total Number of Observations: 672 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

MARCH 2011

TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
03/01/11	7.1	7.3	7.0	6.8	7.1	7.0	7.0	7.7	9.1	10.6	12.0	13.9	16.0	17.6	17.8	17.7	18.3	17.2	14.7	13.5	11.9	11.0	11.3	11.0	18.3	6.8	11.7
03/02/11	10.2	10.2	10.0	9.4	9.3	9.0	8.5	7.9	11.7	14.8	16.5	17.4	18.0	18.0	18.1	17.9	18.1	17.1	15.3	14.5	14.2	13.7	11.9	12.1	18.1	7.9	13.5
03/03/11	10.7	10.6	10.3	10.4	10.4	9.8	10.0	10.0	12.5	15.1	15.5	16.1	16.8	17.4	17.7	17.4	17.1	16.2	14.9	14.1	13.6	13.3	12.8	12.6	17.7	9.8	13.6
03/04/11	12.9	11.7	9.2	9.2	8.4	8.0	7.0	8.2	11.0	13.1	13.6	14.5	15.8	16.4	17.0	17.6	17.5	16.7	14.8	13.3	12.6	12.0	11.1	10.5	17.6	7.0	12.6
03/05/11	10.2	9.4	8.8	8.4	8.1	8.0	7.5	7.9	8.7	10.6	12.5	13.8	15.2	16.7	17.9	18.2	17.7	16.3	14.6	13.3	12.2	11.5	10.7	10.5	18.2	7.5	12.0
03/06/11	10.4	10.0	9.8	9.5	9.1	8.9	8.7	9.1	11.0	13.7	15.0	16.5	17.7	18.4	18.6	18.3	17.1	16.5	15.5	14.9	14.8	14.6	14.6	14.7	18.6	8.7	13.6
03/07/11	14.3	13.8	13.1	12.6	12.3	11.5	10.9	10.2	10.2	10.7	11.0	11.1	11.2	12.2	12.5	12.9	12.9	12.1	11.1	10.6	9.8	9.3	8.8	8.1	14.3	8.1	11.4
03/08/11	7.1	6.6	6.1	5.5	5.2	4.5	3.9	4.2	6.3	8.1	8.6	9.9	10.4	11.0	11.6	12.2	12.3	11.8	10.6	10.0	9.4	7.7	7.8	7.7	12.3	3.9	8.3
03/09/11	7.5	8.0	8.1	8.7	8.6	8.5	9.0	9.7	11.0	12.6	14.1	15.9	18.0	19.3	21.1	20.2	19.7	18.7	17.4	16.1	14.3	14.2	14.1	14.8	21.1	7.5	13.7
03/10/11	15.4	14.5	14.6	14.0	12.7	13.5	13.1	13.5	13.9	14.8	16.7	18.4	19.8	21.7	23.1	23.4	23.9	22.9	20.7	19.0	16.9	15.8	15.0	15.0	23.9	12.7	17.2
03/11/11	13.9	14.4	12.5	13.2	12.6	10.7	9.9	11.3	15.8	19.2	20.9	20.6	21.3	22.0	22.0	21.8	21.5	20.5	18.9	18.2	17.5	17.4	16.5	16.6	22.0	9.9	17.0
03/12/11	15.5	15.1	13.7	12.9	12.2	12.4	11.7	12.4	15.8	17.7	18.0	18.8	19.5	19.8	20.3	20.4	20.4	19.7	18.2	17.6	17.0	15.1	13.4	12.9	20.4	11.7	16.3
03/13/11	12.3	12.1	12.1	12.2	11.8	11.0	11.3	12.6	16.3	18.0	17.7	19.8	20.1	20.6	20.8	21.1	20.8	20.0	18.5	17.8	17.4	17.1	15.3	15.1	21.1	11.0	16.3
03/14/11	15.1	14.2	13.2	14.7	14.3	13.1	12.2	13.6	15.8	18.2	18.4	19.2	20.5	20.3	19.8	20.7	20.2	19.5	18.0	16.8	15.0	14.8	15.5	14.4	20.7	12.2	16.6
03/15/11	14.9	14.0	13.5	13.4	14.3	12.7	12.0	12.4	16.1	19.0	18.7	19.5	19.9	20.2	20.8	20.4	20.5	19.5	18.4	17.8	16.5	16.4	15.5	16.9	20.8	12.0	16.8
03/16/11	14.6	14.5	13.8	13.7	13.3	12.4	12.4	14.4	17.1	18.8	19.9	20.4	21.1	21.7	22.0	22.4	22.7	22.2	20.8	20.0	19.4	17.8	16.8	17.8	22.7	12.4	17.9
03/17/11	17.1	16.9	16.2	14.5	13.7	13.5	13.2	14.6	17.0	18.5	20.0	21.3	22.5	22.7	23.2	23.2	22.9	22.6	20.8	19.6	18.7	18.1	16.8	15.1	23.2	13.2	18.4
03/18/11	14.9	13.5	13.0	12.8	12.8	12.4	12.0	12.7	16.2	18.0	19.2	20.2	20.9	21.8	22.0	22.1	21.9	20.9	20.1	19.0	18.1	16.9	16.7	16.0	22.1	12.0	17.2
03/19/11	15.2	14.3	13.8	12.7	11.2	11.0	10.2	11.6	14.0	15.6	16.0	16.9	17.3	17.8	17.7	17.7	17.1	16.0	15.2	14.3	13.4	11.5	12.7	11.3	17.8	10.2	14.4
03/20/11	10.0	9.9	9.2	9.7	9.2	8.9	9.0	10.0	12.9	14.8	16.0	17.9	18.8	19.1	18.6	17.9	18.5	17.8	16.8	15.6	15.9	15.9	15.4	14.6	19.1	8.9	14.3
03/21/11	14.7	14.1	14.0	13.8	13.7	13.3	12.2	11.6	11.7	12.1	12.3	11.2	10.6	9.2	8.0	6.4	5.9	4.7	4.2	3.6	4.2	4.7	4.9	4.5	14.7	3.6	9.4
03/22/11	4.3	4.3	4.0	3.7	3.8	3.7	3.7	4.9	6.6	7.2	7.5	8.8	9.2	9.9	10.7	10.4	10.4	9.9	8.7	8.0	7.1	5.7	5.0	5.3	10.7	3.7	6.8
03/23/11	4.7	4.9	4.3	3.3	3.1	3.1	2.7	5.2	8.2	9.8	11.8	13.4	14.6	15.8	16.9	17.3	17.0	15.8	13.9	12.4	11.6	11.1	11.7	10.4	17.3	2.7	10.1
03/24/11	10.1	10.2	9.6	9.2	8.7	8.4	8.0	7.8	8.3	9.6	11.1	11.9	12.6	12.9	13.3	13.6	13.6	13.4	11.9	11.0	9.9	8.9	8.8	8.9	13.6	7.8	10.5
03/25/11	8.0	7.0	6.6	6.4	6.5	5.4	6.3	7.3	10.5	10.4	11.4	11.4	12.1	12.7	13.0	13.4	13.4	12.8	11.0	10.0	9.6	9.5	9.3	9.1	13.4	5.4	9.7
03/26/11	8.9	8.5	7.1	6.3	5.5	5.5	5.3	7.6	10.4	12.1	12.3	13.8	14.5	15.1	15.0	14.9	15.0	14.7	13.7	12.7	11.7	11.1	10.4	9.7	15.1	5.3	10.9
03/27/11	9.2	8.8	8.5	7.7	7.0	5.9	5.5	7.5	10.2	11.1	12.3	13.4	14.4	14.5	15.1	15.8	15.7	15.5	14.1	13.4	12.8	11.9	12.6	11.3	15.8	5.5	11.4
03/28/11	11.5	10.6	10.3	9.2	9.2	8.5	8.3	10.7	13.9	14.8	15.3	16.4	17.2	18.4	18.4	18.6	18.5	17.8	16.4	15.6	15.4	14.9	14.3	15.1	18.6	8.3	14.1
03/29/11	14.9	13.1	12.9	12.2	10.9	11.2	10.7	12.7	14.8	16.0	17.3	18.7	19.6	20.7	20.7	20.6	20.7	19.5	18.3	17.6	17.4	17.0	16.9	16.6	20.7	10.7	16.3
03/30/11	16.5	15.5	14.4	14.2	12.9	11.5	11.4	13.3	17.1	18.8	18.2	19.0	19.9	20.4	21.0	21.1	21.1	20.8	19.7	18.7	18.3	18.6	18.9	18.6	21.1	11.4	17.5
03/31/11	16.4	15.6	15.1	14.8	13.6	14.1	14.8	16.5	18.3	19.3	21.8	23.0	23.1	24.8	24.6	25.3	24.6	24.1	23.1	22.2	21.3	19.9	19.2	19.0	25.3	13.6	19.8
Hourly Averages	11.9	11.4	10.8	10.5	10.0	9.6	9.3	10.3	12.7	14.3	15.2	16.2	17.1	17.7	18.0	18.1	18.0	17.2	15.8	14.9	14.1	13.5	13.1	12.8			

Maximum Hourly Temperature: 25.3 **Minimum Hourly Temperature:** 2.7 **Average Monthly Temperature:** 13.8

Maximum 24-Hour Mean: 19.8 **Minimum 24-Hour Mean:** 6.8

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-E

HOURLY RELATIVE HUMIDITY DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JANUARY 2011

RELATIVE HUMIDITY (%)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	58.6	47.4	42.7	41.6	40.3	32.1	28.9	28.5	37.6	45.7	51.9	45.5	41.9	47.0	47.4	45.2	INV	INV	INV
01/02/11	44.9	42.9	41.5	42.5	43.1	40.3	42.5	37.0	33.7	34.5	32.4	34.4	36.7	35.3	35.5	38.1	39.3	39.7	39.9	40.1	44.7	46.0	48.0	48.5	48.5	32.4	40.1
01/03/11	51.2	50.5	51.8	52.3	54.7	56.4	55.5	53.1	46.0	40.5	41.2	34.1	29.8	37.1	37.3	40.2	42.9	45.2	56.5	53.5	59.8	56.1	60.2	63.6	63.6	29.8	48.7
01/04/11	60.9	62.1	63.5	62.5	60.7	62.8	60.9	63.6	58.4	46.1	52.6	49.5	52.2	52.5	56.4	55.4	61.0	60.8	69.4	65.6	66.6	68.0	71.1	70.9	71.1	46.1	60.6
01/05/11	73.9	74.4	72.8	70.5	60.7	58.1	59.4	53.7	47.3	38.9	35.5	26.4	29.3	21.8	36.9	39.4	43.4	40.7	37.0	43.4	34.7	26.4	20.1	21.6	74.4	20.1	44.4
01/06/11	23.1	23.4	24.9	25.8	23.3	26.5	24.6	31.8	24.9	25.8	24.9	25.0	25.1	25.2	24.9	21.1	21.8	26.4	28.0	30.6	32.0	31.0	31.2	32.2	32.2	21.1	26.4
01/07/11	32.4	40.1	37.1	34.3	40.3	41.2	41.8	35.4	30.1	26.8	25.6	21.6	15.7	15.6	19.3	28.0	31.6	34.1	41.7	42.9	46.1	46.2	50.7	57.6	57.6	15.6	34.8
01/08/11	49.9	52.2	50.9	53.3	61.2	58.0	64.2	58.4	48.3	38.4	36.6	38.1	38.7	37.0	37.1	36.5	39.6	43.6	45.4	44.9	51.7	45.2	45.1	43.9	64.2	36.5	46.6
01/09/11	44.6	43.9	52.6	54.4	54.7	52.9	55.9	51.3	45.9	45.1	48.7	41.7	37.5	33.0	31.4	33.5	37.1	40.2	47.3	45.6	47.0	47.9	48.7	53.4	55.9	31.4	45.6
01/10/11	53.7	50.2	56.5	61.0	71.7	73.7	80.8	75.8	63.1	63.3	59.7	56.6	63.6	58.0	56.2	60.5	63.6	68.1	70.0	77.2	80.9	79.3	76.0	54.1	80.9	50.2	65.6
01/11/11	55.4	52.7	55.0	53.7	47.9	49.1	49.9	47.1	46.7	46.8	45.9	42.1	40.6	36.5	37.1	33.6	32.4	32.8	29.6	28.0	28.8	28.4	28.3	29.3	55.4	28.0	40.7
01/12/11	30.0	30.2	30.4	30.8	30.3	30.2	30.5	29.7	27.1	26.8	28.4	28.0	32.6	34.8	31.3	31.2	33.8	36.6	40.5	34.7	31.6	35.0	41.7	46.3	46.3	26.8	32.6
01/13/11	47.7	48.8	48.3	48.5	46.8	47.7	44.2	40.3	42.6	37.9	33.0	30.8	27.7	26.6	25.2	25.9	26.9	29.9	31.8	33.2	35.7	37.0	33.5	37.8	48.8	25.2	37.0
01/14/11	40.3	38.5	41.4	43.6	48.5	48.9	49.5	50.0	30.3	31.0	32.2	33.3	31.8	31.7	27.4	26.7	27.0	28.0	28.6	36.3	36.9	38.2	37.8	38.5	50.0	26.7	36.5
01/15/11	41.3	40.3	33.0	36.1	42.2	43.3	41.6	36.9	35.1	33.2	30.5	30.0	28.5	25.7	23.8	23.2	24.5	27.8	33.1	33.9	37.5	38.5	40.0	42.3	43.3	23.2	34.3
01/16/11	37.4	30.8	34.0	38.9	39.4	42.5	41.1	39.5	35.4	35.6	30.7	25.4	28.4	26.9	27.5	25.8	31.3	34.0	37.7	36.0	39.4	39.0	41.1	42.1	42.5	25.4	35.0
01/17/11	38.6	42.2	42.1	45.4	45.4	46.5	48.9	47.2	41.8	31.4	30.3	34.0	28.6	30.1	32.3	32.0	35.6	37.7	39.3	38.0	39.4	40.5	44.2	43.8	48.9	28.6	39.0
01/18/11	52.8	47.3	59.6	56.5	60.5	60.8	61.9	52.7	40.1	27.7	25.0	21.8	18.4	27.3	32.6	32.8	36.7	40.8	43.1	38.0	33.8	39.1	37.7	37.0	61.9	18.4	41.0
01/19/11	43.2	42.1	47.0	47.7	49.6	55.3	53.9	51.7	44.9	39.3	33.6	33.7	32.8	32.4	28.7	30.0	31.3	32.0	34.0	36.0	35.7	35.6	35.8	37.6	55.3	28.7	39.3
01/20/11	49.4	38.5	40.1	41.4	39.3	39.4	39.5	36.2	33.3	27.5	22.3	19.7	19.0	18.3	15.2	15.2	15.7	17.2	20.3	24.7	23.8	24.4	25.5	27.0	49.4	15.2	28.0
01/21/11	26.6	27.3	28.1	28.7	30.2	32.2	30.6	30.9	27.9	22.7	15.4	13.2	14.6	14.8	19.4	19.5	20.2	20.8	23.0	23.5	23.8	27.0	28.8	30.8	32.2	13.2	24.2
01/22/11	29.7	32.8	33.7	34.5	35.9	37.4	40.4	39.0	30.1	23.9	21.9	21.8	21.0	21.9	20.7	20.1	23.7	25.0	26.0	26.8	27.4	27.9	28.1	30.0	40.4	20.1	28.3
01/23/11	34.8	34.4	32.8	30.4	31.8	29.7	30.2	31.5	27.3	28.4	26.5	23.9	22.0	20.5	20.5	20.1	19.3	20.3	22.9	22.0	25.4	23.9	28.7	22.5	34.8	19.3	26.2
01/24/11	25.2	27.6	28.9	29.2	30.2	31.9	31.9	25.4	24.8	20.8	15.2	15.0	12.0	12.7	12.8	17.0	14.7	18.7	15.4	19.0	18.9	20.5	19.2	19.9	31.9	12.0	21.1
01/25/11	20.5	20.2	20.0	22.0	22.9	23.6	24.7	29.3	27.5	27.1	26.0	24.4	21.7	20.3	17.1	20.9	22.5	24.0	24.2	26.1	23.3	25.3	27.2	28.1	29.3	17.1	23.7
01/26/11	14.7	15.6	19.6	19.8	22.2	23.5	29.0	33.2	32.8	31.7	29.4	28.6	24.5	24.2	23.0	22.3	23.7	25.9	29.0	27.3	28.7	30.7	30.4	34.0	34.0	14.7	26.0
01/27/11	33.8	32.9	33.7	34.0	36.6	34.9	35.8	34.1	29.4	25.1	22.8	21.5	19.7	16.9	15.6	15.3	17.4	20.4	22.1	21.3	24.5	20.5	20.5	21.9	36.6	15.3	25.4
01/28/11	24.9	26.7	25.7	26.1	27.0	26.9	27.8	25.9	24.2	22.8	19.9	13.5	13.4	11.9	9.8	9.9	11.3	12.2	12.8	16.1	18.9	18.7	19.5	16.8	27.8	9.8	19.3
01/29/11	18.5	14.3	17.2	18.2	20.9	23.3	30.0	26.8	21.5	15.6	14.8	15.0	15.7	15.0	15.1	14.9	15.8	19.1	19.5	15.8	18.5	18.9	19.7	24.2	30.0	14.3	18.7
01/30/11	23.6	25.0	26.4	26.3	28.0	28.6	30.0	33.8	24.4	22.6	22.2	18.1	19.7	17.9	18.2	18.1	17.9	19.4	20.8	22.5	23.5	22.7	25.8	38.6	38.6	17.9	23.9
01/31/11	48.8	52.1	54.9	75.0	78.7	88.3	82.5	82.7	77.9	84.0	94.4	86.0	80.3	83.0	84.0	75.5	78.9	72.9	69.3	66.2	67.6	81.3	86.6	88.4	94.4	48.8	76.6
Hourly Averages	39.1	38.7	40.1	41.4	42.8	43.8	44.7	42.8	38.1	34.5	32.9	30.6	29.7	28.9	29.1	29.4	31.6	33.5	35.8	36.0	37.0	37.6	38.6	39.6			

Maximum Hourly Humidity: 94.4 **Minimum Hourly Humidity:** 9.8

Total Number of Observations: 736 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

FEBRUARY 2011

RELATIVE HUMIDITY (%)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
02/01/11	84.6	88.6	88.9	74.8	87.0	87.6	67.7	64.4	53.0	50.4	43.9	40.8	40.8	31.2	30.1	29.5	24.9	26.9	27.2	30.8	29.7	26.6	31.3	42.3	88.9	24.9	50.1
02/02/11	40.8	37.1	38.9	34.3	28.8	29.6	28.5	26.8	22.0	20.3	20.7	21.3	20.4	22.3	22.4	24.1	25.3	27.8	30.4	37.8	40.9	41.8	40.2	45.5	45.5	20.3	30.3
02/03/11	40.3	41.1	28.6	32.9	33.0	33.7	37.2	37.0	32.5	28.6	26.6	22.8	21.0	17.1	14.8	14.0	14.8	15.5	20.4	21.0	23.5	29.4	27.7	29.2	41.1	14.0	26.8
02/04/11	29.8	29.0	28.4	33.7	29.6	28.3	28.0	26.3	22.5	21.4	18.0	18.1	18.6	14.9	15.6	15.7	17.4	19.3	21.0	21.8	22.3	23.7	27.4	26.7	33.7	14.9	23.2
02/05/11	26.7	24.3	26.5	29.0	28.3	30.2	29.2	27.6	22.2	22.1	17.9	20.5	18.6	20.0	20.4	20.6	21.6	24.3	25.3	27.0	30.1	31.2	34.2	34.1	34.2	17.9	25.5
02/06/11	41.9	36.6	25.7	26.8	25.3	25.1	29.2	26.3	26.4	23.8	22.9	18.4	16.1	15.1	20.0	19.2	19.8	23.1	24.1	28.7	25.2	20.7	20.6	21.0	41.9	15.1	24.2
02/07/11	22.8	22.9	24.9	24.2	23.2	26.1	29.5	28.3	24.6	23.6	21.4	20.4	18.4	18.0	18.2	17.3	18.0	20.9	21.6	23.0	23.8	26.1	26.7	27.8	29.5	17.3	23.0
02/08/11	29.5	26.1	27.0	22.5	22.5	24.3	25.2	24.9	24.6	23.0	26.0	28.5	29.4	28.8	26.2	26.1	24.7	24.7	25.7	22.0	23.5	24.9	43.2	34.2	43.2	22.0	26.6
02/09/11	34.0	32.8	27.7	27.0	24.8	27.2	29.7	26.5	23.7	20.4	18.8	15.7	13.3	12.8	11.9	11.8	11.9	12.4	11.3	12.8	15.0	15.0	15.6	16.9	34.0	11.3	19.5
02/10/11	18.7	20.2	21.6	23.7	25.4	25.9	26.3	25.5	24.9	23.4	22.2	22.9	22.3	18.6	14.8	13.4	13.8	15.6	20.7	19.1	15.4	14.4	14.6	14.4	26.3	13.4	19.9
02/11/11	15.1	16.4	19.3	17.7	20.8	20.5	20.5	19.0	17.9	17.3	15.2	13.5	12.3	10.4	11.0	11.0	11.0	12.3	13.9	14.6	13.3	14.0	14.1	13.8	20.8	10.4	15.2
02/12/11	15.1	18.2	18.4	18.6	21.9	22.4	20.4	18.2	17.3	15.0	13.4	11.8	11.0	10.3	10.0	9.0	9.0	9.7	9.3	9.0	8.7	10.9	10.7	11.3	22.4	8.7	13.7
02/13/11	11.0	12.3	12.8	12.8	12.5	12.3	12.5	12.3	12.4	11.8	11.4	10.2	8.3	8.9	8.6	6.8	7.1	9.3	10.1	11.3	11.9	10.8	10.2	10.9	12.8	6.8	10.8
02/14/11	11.5	12.2	12.3	13.8	15.2	13.8	15.3	14.4	12.6	11.5	10.0	8.9	8.1	8.3	8.5	8.4	9.0	9.5	9.9	10.6	12.5	12.4	12.9	13.4	15.3	8.1	11.5
02/15/11	13.2	14.0	14.7	13.8	14.6	15.5	19.1	17.8	15.3	12.7	7.7	9.0	8.8	6.5	8.3	7.6	8.0	9.3	10.0	11.1	13.0	11.0	11.1	12.8	19.1	6.5	11.9
02/16/11	17.1	17.3	19.4	21.4	23.0	25.5	30.3	29.0	27.5	27.7	26.6	25.9	24.6	22.0	24.5	29.0	31.5	32.6	33.1	33.9	40.4	41.1	44.7	50.6	50.6	17.1	29.1
02/17/11	54.1	57.4	59.8	62.0	74.4	73.2	72.9	70.5	66.9	66.3	61.9	59.3	62.6	60.5	56.8	48.1	45.9	49.1	55.4	61.7	58.9	62.7	60.9	61.3	74.4	45.9	60.9
02/18/11	58.9	44.5	47.4	64.8	64.6	65.6	62.7	45.6	49.4	42.2	32.5	28.8	24.5	23.2	30.3	30.5	32.0	29.1	29.7	36.1	33.6	38.9	33.8	36.8	65.6	23.2	41.1
02/19/11	35.4	34.2	33.2	33.7	38.1	41.0	43.2	43.6	40.7	40.2	38.2	43.6	44.8	46.1	93.3	100.0	100.0	100.0	100.0	100.0	100.0	98.8	100.0	95.0	100.0	33.2	64.3
02/20/11	92.6	89.7	90.4	90.6	94.5	95.0	93.8	91.9	80.9	74.5	76.9	82.5	81.7	100.0	100.0	100.0	95.2	93.9	86.6	77.5	78.0	89.8	86.3	89.0	100.0	74.5	88.8
02/21/11	79.8	83.1	93.6	88.4	95.6	94.6	90.1	88.3	82.1	59.4	57.7	54.0	35.7	39.1	38.0	41.9	48.2	55.9	60.4	59.7	64.8	71.7	65.5	65.2	95.6	35.7	67.2
02/22/11	62.7	61.0	65.1	64.1	61.3	59.2	55.9	50.6	46.1	38.3	37.5	31.9	33.7	34.1	40.3	37.2	33.8	36.8	39.8	41.3	49.8	49.1	51.6	47.0	65.1	31.9	47.0
02/23/11	46.3	48.9	48.8	50.1	55.9	54.5	60.0	54.4	42.1	29.4	34.4	33.8	33.6	36.5	35.5	32.5	37.3	41.4	41.6	45.5	51.0	55.5	54.5	51.7	60.0	29.4	44.8
02/24/11	52.2	56.6	61.8	65.1	80.9	83.1	85.5	80.7	73.1	62.7	70.0	59.0	49.2	44.8	46.1	45.2	44.1	48.1	51.8	51.4	57.7	59.8	61.5	60.7	85.5	44.1	60.5
02/25/11	63.0	62.7	63.0	63.6	64.0	64.4	64.8	55.4	50.2	41.2	29.3	29.9	22.5	26.9	26.1	26.8	26.1	25.6	28.7	27.5	29.9	28.1	27.7	23.9	64.8	22.5	40.5
02/26/11	26.0	29.5	35.5	35.7	33.6	28.6	27.1	27.1	29.7	24.8	15.2	14.8	14.0	17.5	18.7	20.6	21.7	22.7	28.7	33.1	43.8	51.7	56.8	57.7	57.7	14.0	29.8
02/27/11	61.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.1	83.1	68.2	65.9	73.2	78.8	83.6	87.9	85.6	83.6	87.2	100.0	61.7	89.8
02/28/11	79.0	82.4	79.6	76.5	77.5	72.6	63.6	59.9	54.1	50.9	50.5	46.9	41.9	40.1	29.9	25.3	23.2	23.3	34.9	34.0	30.6	31.1	30.6	33.3	82.4	23.2	48.8
Hourly Averages	41.6	42.8	43.3	43.6	45.6	45.7	45.3	42.6	39.1	35.1	33.1	31.9	29.9	29.6	30.8	30.0	30.0	31.9	33.9	35.2	37.0	38.5	39.2	39.8			

Maximum Hourly Humidity: 100.0 **Minimum Hourly Humidity:** 6.5

Total Number of Observations: 672 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

MARCH 2011

RELATIVE HUMIDITY (%)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
03/01/11	34.6	32.4	34.2	32.9	30.1	30.4	27.7	26.7	26.6	27.4	26.2	23.8	21.5	18.7	18.1	18.6	21.5	22.5	30.1	34.6	43.5	38.8	43.6	30.8	43.6	18.1	29.0
03/02/11	36.9	36.7	37.5	40.5	39.6	39.2	47.3	42.4	33.7	28.9	19.1	20.4	25.1	28.6	24.6	19.2	17.6	19.3	24.6	25.3	26.0	28.4	31.0	34.1	47.3	17.6	30.2
03/03/11	33.5	37.4	35.4	36.1	38.6	34.9	39.1	33.7	31.8	26.1	25.7	23.2	23.2	24.4	24.7	25.8	28.3	29.2	28.1	28.6	30.5	34.1	38.4	41.8	41.8	23.2	31.4
03/04/11	28.9	37.7	37.9	36.7	38.8	55.0	59.5	51.7	35.6	30.0	26.7	24.7	20.2	21.3	15.2	17.9	14.5	11.6	12.6	14.5	14.9	14.2	15.5	14.3	59.5	11.6	27.1
03/05/11	13.8	14.6	15.2	14.9	15.8	15.7	17.7	15.8	15.2	13.9	13.5	12.5	12.0	11.1	10.4	10.7	12.0	14.1	16.7	19.7	20.9	23.4	25.0	25.1	25.1	10.4	15.8
03/06/11	24.4	24.9	26.4	27.5	27.9	27.6	28.6	27.4	24.9	19.7	18.4	15.2	12.8	8.5	10.2	11.1	13.0	14.0	15.0	15.1	15.1	17.0	16.2	18.1	28.6	8.5	19.1
03/07/11	19.0	20.7	22.0	22.8	28.2	29.5	25.3	51.9	45.2	52.9	55.8	48.1	39.4	34.0	28.3	26.4	26.8	32.4	36.4	36.7	43.1	42.7	43.0	47.7	55.8	19.0	35.8
03/08/11	54.9	58.7	63.9	65.3	67.2	70.3	75.0	70.6	62.5	58.7	43.9	41.3	36.0	38.6	32.9	30.5	28.7	26.2	24.8	25.7	32.8	35.4	35.1	32.3	75.0	24.8	46.3
03/09/11	27.3	25.7	23.1	20.5	24.7	20.4	19.9	19.1	16.5	15.9	16.0	14.4	12.3	11.0	12.7	14.6	15.2	18.3	19.4	23.2	23.0	17.9	20.4	14.6	27.3	11.0	18.6
03/10/11	14.6	15.9	15.1	15.9	18.2	15.7	18.4	19.0	18.9	18.0	13.9	13.6	11.2	9.4	8.3	7.5	8.3	8.7	10.7	11.8	13.5	14.2	14.1	14.2	19.0	7.5	13.7
03/11/11	15.2	13.7	15.4	15.0	15.8	23.0	23.9	20.4	13.7	11.8	13.6	13.0	12.4	10.8	10.9	10.7	11.8	12.7	12.5	12.6	13.0	13.8	14.5	14.5	23.9	10.7	14.4
03/12/11	15.4	18.3	20.9	21.2	21.5	21.3	23.5	23.4	20.9	14.5	14.6	14.8	15.0	14.4	14.4	14.0	14.7	15.9	17.4	18.1	19.8	24.6	25.2	26.1	26.1	14.0	18.7
03/13/11	26.7	26.7	27.1	27.1	26.4	29.2	25.1	25.2	23.4	19.8	17.5	17.8	15.2	14.5	14.5	15.1	14.8	16.6	17.6	18.0	18.1	21.9	23.1	23.3	29.2	14.5	21.0
03/14/11	25.1	26.4	26.8	23.5	29.9	29.5	31.1	29.6	23.0	24.8	22.0	18.4	17.0	18.9	18.2	17.9	15.8	19.4	21.7	23.9	26.1	28.6	26.0	27.8	31.1	15.8	23.8
03/15/11	26.4	30.2	32.0	29.0	27.7	33.3	35.9	31.2	27.6	22.5	21.2	22.6	19.5	20.5	18.6	20.4	20.3	22.4	23.9	25.1	25.5	30.9	25.5	29.4	35.9	18.6	25.9
03/16/11	31.0	32.3	32.2	33.5	35.2	37.4	36.6	28.7	27.6	25.2	22.5	22.1	23.2	20.3	19.6	19.3	16.7	18.0	17.9	19.2	19.5	23.5	22.2	21.9	37.4	16.7	25.2
03/17/11	24.8	27.6	29.4	33.0	33.8	34.8	34.7	26.6	26.1	21.5	20.1	18.2	15.0	15.4	15.0	15.3	13.9	17.7	19.9	22.3	24.1	25.6	30.8	33.4	34.8	13.9	24.1
03/18/11	32.7	36.1	36.3	35.5	34.0	35.6	37.4	31.4	24.9	23.9	22.5	20.6	17.5	15.1	13.9	15.2	15.6	16.5	18.4	22.5	23.4	26.0	26.9	27.2	37.4	13.9	25.4
03/19/11	25.9	27.9	27.5	31.2	30.8	30.5	29.1	28.7	23.5	12.0	12.0	11.2	9.4	9.1	9.0	8.4	8.9	7.5	7.0	7.1	8.2	9.6	9.6	12.5	31.2	7.0	16.5
03/20/11	14.0	10.2	11.0	10.2	13.4	10.6	12.6	13.4	10.7	11.5	12.0	10.1	9.2	8.5	10.7	10.3	10.4	10.1	12.1	12.7	11.0	11.5	12.0	11.3	14.0	8.5	11.2
03/21/11	11.8	11.2	11.1	12.5	13.3	14.5	22.1	29.9	32.5	29.4	40.1	48.4	55.7	72.4	93.6	99.5	100.0	100.0	100.0	99.5	98.3	89.8	86.3	88.4	100.0	11.1	56.7
03/22/11	93.5	98.4	100.0	100.0	100.0	95.9	92.1	76.9	76.3	56.2	46.5	49.1	43.5	40.3	40.1	36.5	32.7	33.1	35.3	37.3	55.0	57.2	54.4	50.5	100.0	32.7	62.5
03/23/11	48.8	43.5	57.1	60.3	64.8	62.7	64.1	44.1	34.3	31.3	24.5	22.3	15.6	17.1	16.7	20.0	21.1	23.8	26.2	26.0	31.8	24.3	29.6	30.3	64.8	15.6	35.0
03/24/11	30.0	31.5	32.8	32.3	34.0	38.0	42.9	46.9	45.5	40.5	38.5	35.8	36.9	30.6	29.5	29.5	27.2	27.1	28.4	30.2	36.5	30.4	30.7	32.8	46.9	27.1	34.1
03/25/11	39.4	42.2	40.0	37.2	33.9	37.4	42.2	32.5	23.0	26.7	27.2	28.8	25.7	27.7	29.4	27.9	32.6	37.9	45.8	50.3	52.0	54.5	55.8	57.6	57.6	23.0	37.8
03/26/11	60.3	63.6	70.4	74.5	77.7	78.6	75.0	59.8	54.1	47.2	44.2	34.2	30.3	32.1	34.2	33.6	35.4	36.9	42.4	43.1	44.9	44.7	41.8	41.6	78.6	30.3	50.0
03/27/11	43.7	44.0	49.8	57.1	60.7	66.9	67.0	52.9	45.1	40.4	33.8	36.9	32.9	32.0	28.7	27.1	30.1	29.6	30.6	31.6	35.2	32.9	36.2	41.1	67.0	27.1	41.1
03/28/11	40.5	46.1	48.6	49.6	52.7	54.6	51.5	43.0	34.8	31.7	30.3	31.5	25.7	23.9	23.9	23.5	22.0	23.4	27.6	30.0	31.8	33.1	35.8	34.5	54.6	22.0	35.4
03/29/11	37.6	40.1	43.8	48.7	43.5	47.3	48.0	28.9	27.9	26.6	22.1	20.4	19.5	15.6	19.2	19.1	19.6	21.0	21.4	22.2	23.0	22.9	23.8	20.8	48.7	15.6	28.4
03/30/11	21.8	24.4	22.9	23.1	29.6	30.6	29.9	26.3	20.2	20.9	20.8	18.8	15.6	19.4	16.6	16.8	17.3	17.3	19.5	20.1	20.4	20.3	20.5	26.0	30.6	15.6	21.6
03/31/11	25.0	29.6	28.6	32.4	32.8	30.1	29.0	26.0	24.1	20.9	19.0	17.3	17.4	15.7	14.9	15.8	15.3	16.1	18.4	19.2	22.6	22.5	24.3	21.1	32.8	14.9	22.4
Hourly Averages	31.5	33.2	34.7	35.5	36.8	38.1	39.1	35.0	30.6	27.4	25.3	24.2	22.1	21.9	21.8	21.9	22.0	23.2	25.2	26.7	29.1	29.5	30.2	30.5			

Maximum Hourly Humidity: 100.0 **Minimum Hourly Humidity:** 7.0

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-F

HOURLY BAROMETRIC PRESSURE DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JANUARY 2011

BAROMETRIC PRESSURE (in Hg)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	25.69	25.89	25.92	25.94	25.92	25.90	25.89	25.89	25.90	25.90	25.91	25.92	25.92	25.93	25.93	25.94	INV	INV	INV
01/02/11	25.93	25.91	25.91	25.90	25.89	25.88	25.87	25.88	25.87	25.88	25.89	25.89	25.86	25.84	25.81	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.79	25.93	25.79	25.85
01/03/11	25.78	25.77	25.76	25.75	25.74	25.73	25.74	25.75	25.75	25.76	25.78	25.78	25.77	25.74	25.74	25.74	25.75	25.76	25.77	25.78	25.79	25.80	25.80	25.81	25.81	25.73	25.76
01/04/11	25.81	25.82	25.82	25.81	25.81	25.81	25.82	25.84	25.86	25.87	25.88	25.90	25.88	25.86	25.85	25.86	25.87	25.87	25.87	25.89	25.90	25.91	25.91	25.91	25.91	25.81	25.86
01/05/11	25.90	25.90	25.91	25.92	25.92	25.92	25.92	25.94	25.96	25.97	25.98	25.98	25.95	25.92	25.91	25.91	25.92	25.92	25.92	25.91	25.92	25.91	25.94	25.94	25.98	25.90	25.93
01/06/11	25.95	25.94	25.94	25.94	25.92	25.90	25.91	25.91	25.92	25.93	25.95	25.94	25.91	25.89	25.88	25.88	25.86	25.86	25.86	25.86	25.86	25.85	25.86	25.85	25.95	25.85	25.90
01/07/11	25.84	25.83	25.83	25.82	25.80	25.79	25.78	25.77	25.78	25.78	25.78	25.77	25.73	25.70	25.68	25.68	25.67	25.66	25.65	25.64	25.64	25.64	25.65	25.63	25.84	25.63	25.73
01/08/11	25.63	25.63	25.63	25.63	25.63	25.62	25.61	25.62	25.63	25.65	25.67	25.65	25.63	25.61	25.60	25.61	25.61	25.62	25.63	25.64	25.64	25.64	25.65	25.65	25.67	25.60	25.63
01/09/11	25.65	25.64	25.63	25.64	25.65	25.65	25.66	25.67	25.68	25.70	25.71	25.72	25.69	25.66	25.65	25.64	25.65	25.64	25.64	25.65	25.66	25.66	25.67	25.67	25.72	25.63	25.66
01/10/11	25.68	25.67	25.68	25.69	25.69	25.70	25.72	25.74	25.76	25.79	25.80	25.80	25.79	25.77	25.77	25.78	25.80	25.82	25.83	25.86	25.86	25.88	25.91	25.92	25.92	25.67	25.78
01/11/11	25.92	25.92	25.91	25.92	25.93	25.93	25.91	25.93	25.94	25.95	25.97	25.98	25.94	25.91	25.89	25.91	25.91	25.90	25.91	25.90	25.91	25.92	25.93	25.93	25.98	25.89	25.92
01/12/11	25.93	25.92	25.93	25.95	25.95	25.95	25.97	25.98	25.99	26.00	26.00	26.00	25.98	25.96	25.95	25.95	25.95	25.96	25.96	25.98	25.99	26.00	26.01	26.01	26.01	25.92	25.97
01/13/11	26.02	26.02	26.02	26.02	26.00	25.99	25.99	25.99	26.00	26.02	26.02	26.03	26.00	25.97	25.96	25.94	25.93	25.92	25.91	25.91	25.91	25.91	25.91	25.91	26.03	25.91	25.97
01/14/11	25.91	25.89	25.87	25.86	25.87	25.85	25.86	25.86	25.88	25.88	25.90	25.89	25.87	25.87	25.86	25.87	25.88	25.89	25.90	25.91	25.92	25.94	25.93	25.91	25.94	25.85	25.89
01/15/11	25.90	25.90	25.91	25.91	25.91	25.91	25.91	25.91	25.93	25.95	25.96	25.95	25.93	25.90	25.87	25.86	25.84	25.85	25.85	25.85	25.86	25.87	25.86	25.86	25.96	25.84	25.89
01/16/11	25.85	25.85	25.83	25.84	25.83	25.79	25.81	25.84	25.85	25.86	25.86	25.87	25.83	25.81	25.79	25.78	25.78	25.79	25.78	25.80	25.80	25.81	25.82	25.82	25.87	25.78	25.82
01/17/11	25.81	25.80	25.80	25.79	25.79	25.79	25.79	25.79	25.79	25.79	25.79	25.80	25.78	25.75	25.73	25.73	25.72	25.72	25.72	25.73	25.74	25.73	25.74	25.74	25.81	25.72	25.76
01/18/11	25.74	25.74	25.75	25.76	25.76	25.76	25.76	25.77	25.78	25.79	25.80	25.80	25.78	25.76	25.74	25.74	25.74	25.74	25.74	25.75	25.75	25.75	25.75	25.76	25.80	25.74	25.76
01/19/11	25.75	25.75	25.75	25.74	25.73	25.72	25.72	25.72	25.72	25.72	25.72	25.71	25.70	25.67	25.64	25.63	25.64	25.64	25.66	25.66	25.68	25.68	25.70	25.71	25.75	25.63	25.70
01/20/11	25.71	25.74	25.75	25.75	25.77	25.76	25.78	25.81	25.83	25.85	25.87	25.88	25.87	25.85	25.83	25.83	25.83	25.83	25.84	25.85	25.85	25.85	25.85	25.86	25.88	25.71	25.82
01/21/11	25.85	25.83	25.84	25.82	25.82	25.81	25.80	25.82	25.82	25.84	25.85	25.84	25.83	25.81	25.79	25.78	25.78	25.78	25.78	25.79	25.79	25.79	25.79	25.79	25.85	25.78	25.81
01/22/11	25.78	25.76	25.76	25.76	25.75	25.73	25.73	25.73	25.74	25.74	25.73	25.72	25.72	25.68	25.66	25.66	25.66	25.65	25.65	25.66	25.66	25.67	25.66	25.67	25.78	25.65	25.71
01/23/11	25.68	25.67	25.68	25.67	25.69	25.69	25.69	25.71	25.74	25.75	25.77	25.78	25.78	25.76	25.75	25.77	25.78	25.79	25.80	25.80	25.81	25.83	25.83	25.83	25.83	25.67	25.75
01/24/11	25.82	25.80	25.80	25.79	25.79	25.78	25.78	25.79	25.79	25.80	25.81	25.81	25.80	25.78	25.76	25.76	25.77	25.78	25.80	25.82	25.83	25.83	25.85	25.85	25.85	25.76	25.80
01/25/11	25.86	25.85	25.84	25.84	25.83	25.83	25.83	25.84	25.85	25.85	25.86	25.86	25.83	25.81	25.78	25.77	25.77	25.77	25.77	25.79	25.79	25.81	25.80	25.81	25.86	25.77	25.82
01/26/11	25.81	25.79	25.79	25.79	25.79	25.79	25.80	25.82	25.83	25.84	25.86	25.86	25.85	25.82	25.81	25.81	25.82	25.83	25.84	25.86	25.87	25.89	25.90	25.92	25.92	25.79	25.83
01/27/11	25.94	25.94	25.93	25.93	25.94	25.94	25.94	25.94	25.96	25.96	25.96	25.97	25.95	25.92	25.89	25.88	25.87	25.87	25.87	25.88	25.88	25.89	25.90	25.90	25.97	25.87	25.92
01/28/11	25.90	25.89	25.89	25.89	25.88	25.87	25.87	25.87	25.88	25.88	25.89	25.88	25.87	25.84	25.82	25.80	25.79	25.79	25.79	25.80	25.81	25.81	25.81	25.81	25.90	25.79	25.85
01/29/11	25.80	25.80	25.80	25.80	25.79	25.79	25.80	25.81	25.81	25.83	25.84	25.84	25.84	25.82	25.80	25.80	25.80	25.80	25.82	25.82	25.83	25.83	25.84	25.84	25.84	25.79	25.81
01/30/11	25.83	25.83	25.83	25.83	25.83	25.84	25.84	25.84	25.84	25.86	25.87	25.86	25.83	25.80	25.78	25.75	25.74	25.73	25.71	25.70	25.70	25.70	25.71	25.72	25.87	25.70	25.79
01/31/11	25.69	25.69	25.68	25.69	25.69	25.67	25.66	25.67	25.68	25.68	25.71	25.71	25.70	25.67	25.65	25.65	25.67	25.68	25.69	25.71	25.72	25.72	25.72	25.72	25.72	25.65	25.69
Hourly Averages	25.82	25.82	25.82	25.82	25.81	25.81	25.81	25.82	25.82	25.84	25.85	25.85	25.83	25.81	25.79	25.79	25.79	25.79	25.80	25.80	25.81	25.81	25.82	25.82			

Maximum Hourly Pressure: 26.03 **Minimum Hourly Pressure:** 25.60

Total Number of Observations: 736 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

FEBRUARY 2011

BAROMETRIC PRESSURE (in Hg)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
02/01/11	25.72	25.71	25.71	25.70	25.69	25.68	25.68	25.68	25.69	25.70	25.70	25.70	25.68	25.65	25.62	25.61	25.61	25.59	25.59	25.60	25.63	25.64	25.66	25.67	25.72	25.59	25.66
02/02/11	25.69	25.70	25.72	25.73	25.74	25.75	25.77	25.78	25.81	25.83	25.85	25.87	25.87	25.86	25.86	25.85	25.86	25.88	25.89	25.89	25.90	25.91	25.94	25.95	25.95	25.69	25.83
02/03/11	25.95	25.94	25.95	25.95	25.95	25.94	25.94	25.96	25.97	25.99	26.01	26.01	26.00	25.97	25.95	25.93	25.92	25.94	25.94	25.97	25.98	25.98	25.98	25.97	26.01	25.92	25.96
02/04/11	25.97	25.96	25.95	25.94	25.93	25.92	25.91	25.92	25.93	25.94	25.93	25.93	25.92	25.89	25.86	25.84	25.85	25.85	25.85	25.86	25.88	25.88	25.88	25.87	25.97	25.84	25.90
02/05/11	25.86	25.86	25.85	25.85	25.82	25.82	25.82	25.80	25.79	25.80	25.81	25.79	25.76	25.72	25.70	25.70	25.68	25.69	25.70	25.71	25.71	25.71	25.73	25.75	25.86	25.68	25.77
02/06/11	25.75	25.75	25.76	25.76	25.76	25.76	25.78	25.80	25.83	25.84	25.86	25.87	25.86	25.85	25.83	25.84	25.85	25.86	25.88	25.90	25.92	25.93	25.95	25.96	25.96	25.75	25.84
02/07/11	25.97	25.97	25.98	25.97	25.95	25.94	25.94	25.95	25.94	25.94	25.95	25.92	25.90	25.86	25.82	25.80	25.78	25.77	25.76	25.75	25.72	25.71	25.70	25.70	25.98	25.70	25.86
02/08/11	25.68	25.67	25.64	25.61	25.59	25.55	25.55	25.55	25.56	25.57	25.58	25.58	25.59	25.57	25.55	25.54	25.54	25.56	25.58	25.61	25.63	25.65	25.66	25.68	25.68	25.54	25.60
02/09/11	25.70	25.71	25.73	25.74	25.75	25.76	25.78	25.80	25.82	25.83	25.84	25.85	25.84	25.81	25.79	25.77	25.77	25.76	25.76	25.77	25.78	25.79	25.79	25.79	25.85	25.70	25.78
02/10/11	25.79	25.79	25.79	25.78	25.77	25.76	25.78	25.78	25.80	25.81	25.82	25.82	25.81	25.78	25.76	25.76	25.75	25.75	25.76	25.78	25.78	25.79	25.80	25.80	25.82	25.75	25.78
02/11/11	25.80	25.80	25.80	25.81	25.81	25.82	25.84	25.85	25.88	25.90	25.91	25.93	25.93	25.92	25.91	25.90	25.90	25.91	25.93	25.95	25.96	25.97	25.99	26.01	26.01	25.80	25.89
02/12/11	26.01	26.01	26.02	26.01	26.02	26.02	26.03	26.04	26.06	26.07	26.07	26.07	26.05	26.02	26.00	25.99	25.98	25.98	25.98	25.98	25.98	25.99	25.99	25.98	26.07	25.98	26.01
02/13/11	25.97	25.95	25.95	25.93	25.92	25.92	25.92	25.93	25.94	25.93	25.94	25.94	25.93	25.90	25.87	25.86	25.85	25.86	25.87	25.88	25.88	25.89	25.90	25.90	25.97	25.85	25.91
02/14/11	25.90	25.90	25.90	25.89	25.89	25.90	25.90	25.91	25.92	25.94	25.94	25.94	25.93	25.91	25.89	25.87	25.87	25.88	25.89	25.89	25.90	25.90	25.90	25.90	25.94	25.87	25.90
02/15/11	25.91	25.90	25.89	25.88	25.88	25.87	25.87	25.89	25.89	25.90	25.89	25.89	25.87	25.85	25.82	25.81	25.80	25.79	25.79	25.79	25.79	25.79	25.79	25.79	25.91	25.79	25.85
02/16/11	25.78	25.78	25.77	25.76	25.75	25.75	25.75	25.76	25.78	25.79	25.79	25.80	25.78	25.75	25.73	25.71	25.71	25.70	25.70	25.71	25.71	25.71	25.72	25.72	25.80	25.70	25.75
02/17/11	25.71	25.71	25.71	25.71	25.71	25.70	25.72	25.74	25.76	25.77	25.79	25.81	25.80	25.78	25.76	25.75	25.74	25.74	25.75	25.76	25.76	25.76	25.77	25.78	25.81	25.70	25.75
02/18/11	25.77	25.77	25.77	25.76	25.76	25.76	25.78	25.79	25.80	25.82	25.83	25.83	25.81	25.81	25.79	25.80	25.80	25.81	25.81	25.84	25.81	25.80	25.82	25.80	25.84	25.76	25.80
02/19/11	25.79	25.78	25.76	25.74	25.72	25.71	25.70	25.69	25.69	25.70	25.68	25.67	25.65	25.63	25.59	25.62	25.63	25.63	25.65	25.65	25.67	25.67	25.68	25.69	25.79	25.59	25.68
02/20/11	25.68	25.68	25.68	25.67	25.66	25.66	25.66	25.67	25.68	25.68	25.69	25.69	25.68	25.66	25.65	25.65	25.67	25.68	25.70	25.72	25.72	25.73	25.74	25.73	25.74	25.65	25.68
02/21/11	25.72	25.72	25.71	25.70	25.68	25.67	25.68	25.67	25.68	25.70	25.70	25.70	25.69	25.67	25.66	25.65	25.65	25.64	25.66	25.67	25.67	25.68	25.69	25.69	25.72	25.64	25.68
02/22/11	25.69	25.70	25.70	25.69	25.69	25.69	25.69	25.70	25.72	25.74	25.75	25.75	25.75	25.73	25.72	25.71	25.70	25.70	25.71	25.72	25.73	25.73	25.74	25.73	25.75	25.69	25.72
02/23/11	25.73	25.73	25.72	25.71	25.69	25.70	25.70	25.70	25.71	25.71	25.72	25.73	25.71	25.70	25.68	25.68	25.67	25.68	25.68	25.69	25.71	25.72	25.73	25.74	25.74	25.67	25.71
02/24/11	25.75	25.75	25.76	25.76	25.75	25.77	25.78	25.80	25.82	25.84	25.84	25.86	25.85	25.84	25.83	25.82	25.82	25.82	25.82	25.82	25.82	25.83	25.84	25.84	25.86	25.75	25.81
02/25/11	25.83	25.82	25.81	25.80	25.79	25.78	25.78	25.79	25.80	25.81	25.80	25.80	25.78	25.76	25.74	25.72	25.71	25.70	25.69	25.69	25.69	25.69	25.69	25.69	25.83	25.69	25.76
02/26/11	25.68	25.66	25.63	25.62	25.60	25.59	25.60	25.60	25.61	25.61	25.61	25.59	25.57	25.54	25.50	25.49	25.48	25.47	25.47	25.46	25.46	25.47	25.46	25.46	25.68	25.46	25.55
02/27/11	25.43	25.40	25.40	25.40	25.42	25.44	25.48	25.52	25.56	25.61	25.65	25.68	25.69	25.71	25.73	25.74	25.76	25.77	25.81	25.81	25.84	25.86	25.89	25.90	25.90	25.40	25.65
02/28/11	25.91	25.92	25.91	25.90	25.90	25.90	25.90	25.90	25.91	25.94	25.94	25.94	25.94	25.91	25.89	25.87	25.86	25.86	25.87	25.88	25.90	25.90	25.91	25.91	25.94	25.86	25.90
Hourly Averages	25.79	25.79	25.78	25.78	25.77	25.77	25.78	25.78	25.80	25.81	25.82	25.82	25.81	25.79	25.77	25.76	25.76	25.76	25.77	25.78	25.78	25.79	25.80	25.80			

Maximum Hourly Pressure: 26.07 **Minimum Hourly Pressure:** 25.40

Total Number of Observations: 672 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

MARCH 2011

BAROMETRIC PRESSURE (in Hg)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
03/01/11	25.90	25.89	25.89	25.88	25.88	25.87	25.88	25.88	25.89	25.91	25.91	25.91	25.89	25.88	25.86	25.85	25.84	25.83	25.83	25.86	25.85	25.85	25.87	25.87	25.91	25.83	25.87
03/02/11	25.88	25.88	25.87	25.87	25.87	25.87	25.87	25.89	25.91	25.92	25.91	25.91	25.90	25.88	25.87	25.86	25.85	25.85	25.85	25.86	25.86	25.88	25.87	25.88	25.92	25.85	25.88
03/03/11	25.87	25.87	25.86	25.85	25.84	25.84	25.84	25.86	25.87	25.87	25.87	25.86	25.85	25.83	25.81	25.80	25.79	25.79	25.78	25.79	25.80	25.80	25.80	25.80	25.87	25.78	25.83
03/04/11	25.80	25.80	25.79	25.79	25.79	25.79	25.80	25.82	25.84	25.85	25.87	25.88	25.87	25.86	25.85	25.85	25.84	25.85	25.87	25.90	25.91	25.93	25.94	25.95	25.95	25.79	25.85
03/05/11	25.93	25.93	25.94	25.92	25.92	25.91	25.92	25.94	25.96	25.97	25.96	25.95	25.94	25.91	25.90	25.87	25.85	25.85	25.84	25.85	25.84	25.85	25.85	25.84	25.97	25.84	25.90
03/06/11	25.83	25.82	25.81	25.79	25.77	25.75	25.75	25.76	25.76	25.76	25.74	25.75	25.72	25.70	25.68	25.65	25.64	25.63	25.62	25.61	25.62	25.62	25.62	25.61	25.83	25.61	25.71
03/07/11	25.60	25.60	25.58	25.56	25.54	25.54	25.53	25.53	25.53	25.54	25.54	25.53	25.53	25.51	25.51	25.50	25.50	25.50	25.52	25.52	25.52	25.54	25.56	25.56	25.60	25.50	25.54
03/08/11	25.58	25.60	25.60	25.61	25.61	25.62	25.64	25.67	25.71	25.72	25.74	25.75	25.75	25.75	25.74	25.76	25.75	25.77	25.78	25.81	25.83	25.86	25.88	25.88	25.88	25.58	25.73
03/09/11	25.89	25.90	25.90	25.89	25.89	25.91	25.92	25.94	25.97	25.98	25.98	26.00	25.99	25.97	25.95	25.95	25.94	25.94	25.95	25.95	25.96	25.97	25.98	25.98	26.00	25.89	25.95
03/10/11	25.98	25.98	25.97	25.96	25.94	25.95	25.94	25.95	25.96	25.97	25.97	25.96	25.95	25.92	25.89	25.87	25.86	25.84	25.84	25.84	25.85	25.86	25.86	25.86	25.98	25.84	25.92
03/11/11	25.84	25.84	25.83	25.81	25.80	25.80	25.81	25.81	25.82	25.83	25.83	25.83	25.83	25.81	25.79	25.77	25.77	25.77	25.77	25.78	25.78	25.79	25.80	25.79	25.84	25.77	25.80
03/12/11	25.79	25.79	25.80	25.79	25.79	25.78	25.78	25.79	25.81	25.82	25.83	25.83	25.82	25.80	25.78	25.77	25.77	25.77	25.77	25.78	25.78	25.80	25.82	25.82	25.83	25.77	25.79
03/13/11	25.82	25.83	25.82	25.82	25.82	25.83	25.85	25.85	25.87	25.88	25.90	25.89	25.89	25.87	25.85	25.84	25.84	25.84	25.85	25.87	25.88	25.89	25.90	25.90	25.90	25.82	25.86
03/14/11	25.90	25.90	25.89	25.87	25.88	25.87	25.88	25.89	25.90	25.90	25.90	25.90	25.89	25.86	25.85	25.83	25.82	25.81	25.82	25.83	25.84	25.84	25.85	25.85	25.90	25.81	25.87
03/15/11	25.86	25.86	25.84	25.82	25.81	25.82	25.82	25.83	25.84	25.84	25.84	25.83	25.83	25.81	25.80	25.78	25.78	25.78	25.79	25.80	25.81	25.82	25.84	25.84	25.86	25.78	25.82
03/16/11	25.84	25.84	25.83	25.83	25.82	25.83	25.83	25.84	25.85	25.86	25.86	25.85	25.84	25.83	25.82	25.80	25.79	25.78	25.79	25.80	25.82	25.84	25.84	25.83	25.86	25.78	25.83
03/17/11	25.83	25.83	25.82	25.81	25.81	25.82	25.82	25.84	25.85	25.86	25.86	25.86	25.85	25.83	25.80	25.79	25.77	25.77	25.77	25.79	25.80	25.81	25.83	25.84	25.86	25.77	25.82
03/18/11	25.84	25.84	25.84	25.83	25.83	25.84	25.86	25.87	25.88	25.89	25.90	25.90	25.88	25.85	25.83	25.81	25.79	25.78	25.77	25.77	25.78	25.79	25.80	25.79	25.90	25.77	25.83
03/19/11	25.80	25.80	25.78	25.78	25.76	25.77	25.78	25.79	25.80	25.80	25.81	25.81	25.80	25.78	25.76	25.75	25.75	25.76	25.76	25.76	25.76	25.76	25.77	25.78	25.81	25.75	25.78
03/20/11	25.78	25.78	25.77	25.76	25.75	25.75	25.75	25.75	25.75	25.75	25.75	25.75	25.74	25.71	25.69	25.68	25.66	25.65	25.63	25.62	25.63	25.64	25.65	25.65	25.78	25.62	25.71
03/21/11	25.66	25.65	25.64	25.63	25.61	25.61	25.62	25.63	25.65	25.65	25.66	25.68	25.68	25.67	25.66	25.66	25.65	25.65	25.66	25.68	25.69	25.70	25.71	25.72	25.72	25.61	25.66
03/22/11	25.72	25.73	25.72	25.72	25.73	25.75	25.76	25.78	25.80	25.81	25.81	25.81	25.79	25.78	25.76	25.76	25.76	25.75	25.76	25.77	25.78	25.79	25.79	25.78	25.81	25.72	25.77
03/23/11	25.78	25.77	25.77	25.76	25.75	25.76	25.76	25.76	25.74	25.76	25.77	25.76	25.74	25.73	25.70	25.67	25.65	25.65	25.64	25.65	25.65	25.66	25.66	25.67	25.78	25.64	25.72
03/24/11	25.67	25.67	25.67	25.67	25.67	25.68	25.70	25.73	25.75	25.75	25.76	25.77	25.76	25.74	25.73	25.71	25.72	25.71	25.71	25.71	25.71	25.71	25.72	25.72	25.77	25.67	25.71
03/25/11	25.72	25.72	25.72	25.70	25.69	25.69	25.70	25.72	25.72	25.72	25.73	25.73	25.73	25.71	25.70	25.68	25.67	25.66	25.66	25.67	25.69	25.70	25.70	25.70	25.73	25.66	25.70
03/26/11	25.71	25.70	25.70	25.68	25.67	25.67	25.68	25.68	25.69	25.68	25.68	25.68	25.66	25.65	25.63	25.61	25.61	25.60	25.60	25.60	25.61	25.62	25.63	25.64	25.71	25.60	25.65
03/27/11	25.64	25.65	25.64	25.65	25.65	25.66	25.67	25.70	25.71	25.71	25.71	25.72	25.71	25.70	25.69	25.68	25.68	25.66	25.66	25.66	25.67	25.67	25.68	25.69	25.72	25.64	25.68
03/28/11	25.69	25.69	25.70	25.69	25.68	25.69	25.70	25.71	25.72	25.72	25.73	25.73	25.72	25.69	25.68	25.66	25.65	25.65	25.66	25.67	25.68	25.69	25.70	25.71	25.73	25.65	25.69
03/29/11	25.71	25.70	25.71	25.71	25.72	25.73	25.75	25.76	25.77	25.78	25.80	25.81	25.79	25.78	25.76	25.74	25.73	25.73	25.73	25.75	25.77	25.78	25.79	25.79	25.81	25.70	25.75
03/30/11	25.78	25.79	25.78	25.76	25.76	25.77	25.78	25.79	25.80	25.82	25.82	25.83	25.82	25.80	25.79	25.77	25.76	25.75	25.76	25.78	25.80	25.81	25.82	25.82	25.83	25.75	25.79
03/31/11	25.82	25.81	25.80	25.79	25.78	25.78	25.79	25.80	25.81	25.82	25.82	25.81	25.79	25.78	25.75	25.73	25.71	25.71	25.71	25.72	25.73	25.75	25.76	25.75	25.82	25.71	25.77
Hourly Averages	25.79	25.79	25.78	25.77	25.77	25.77	25.78	25.79	25.80	25.81	25.81	25.82	25.80	25.79	25.77	25.76	25.75	25.74	25.75	25.76	25.76	25.77	25.78	25.78			

Maximum Hourly Pressure: 26.00 **Minimum Hourly Pressure:** 25.50

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-G

HOURLY SOLAR RADIATION DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JANUARY 2011

SOLAR RADIATION (W/m^2)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	231.6	351.9	483.1	567.0	592.5	558.6	467.2	329.4	146.7	5.0	0.0	0.0	0.0	0.0	0.0	0.0	592.5	0.0	339.4
01/02/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2	169.4	338.9	475.1	550.9	529.6	467.9	431.9	259.0	125.5	11.3	0.0	0.0	0.0	0.0	0.0	0.0	550.9	0.0	281.3
01/03/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	127.1	326.2	459.9	538.2	562.4	532.6	444.2	311.7	139.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0	562.4	0.0	288.0
01/04/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	136.9	320.6	469.3	484.2	505.5	416.8	316.3	226.2	123.3	9.1	0.0	0.0	0.0	0.0	0.0	0.0	505.5	0.0	251.7
01/05/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.8	163.6	290.1	433.5	524.5	510.7	507.0	428.1	201.1	79.1	7.1	0.1	0.0	0.0	0.0	0.0	0.0	524.5	0.1	263.3
01/06/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	77.3	227.8	385.2	484.5	514.0	434.9	288.7	231.3	115.5	12.6	0.1	0.0	0.0	0.0	0.0	0.0	514.0	0.1	231.5
01/07/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	159.1	328.9	462.5	546.3	572.9	543.8	463.8	274.3	122.1	8.6	0.1	0.0	0.0	0.0	0.0	0.0	572.9	0.1	291.3
01/08/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4	153.7	318.0	454.6	542.2	572.0	545.7	460.5	329.3	151.6	6.8	0.0	0.0	0.0	0.0	0.0	0.0	572.0	0.0	295.7
01/09/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	155.2	318.9	452.3	538.0	572.0	528.2	443.2	291.5	152.3	7.9	0.1	0.0	0.0	0.0	0.0	0.0	572.0	0.1	289.4
01/10/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	145.4	318.8	467.5	350.5	477.6	470.4	428.5	321.1	154.2	10.5	0.1	0.0	0.0	0.0	0.0	0.0	477.6	0.1	263.4
01/11/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	166.5	329.1	451.2	537.3	581.9	589.3	396.2	292.3	159.2	16.6	0.1	0.0	0.0	0.0	0.0	0.0	589.3	0.1	294.6
01/12/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	73.4	295.9	451.9	538.8	570.0	543.6	460.1	331.0	157.4	7.7	0.0	0.0	0.0	0.0	0.0	0.0	570.0	0.0	286.6
01/13/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.4	163.2	332.0	468.3	556.6	582.2	558.3	471.6	343.0	163.7	7.5	0.0	0.0	0.0	0.0	0.0	0.0	582.2	0.0	305.2
01/14/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	163.2	328.4	467.3	557.2	591.2	561.4	475.9	348.3	161.1	10.1	0.0	0.0	0.0	0.0	0.0	0.0	591.2	0.0	306.7
01/15/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	163.0	328.9	464.6	553.0	584.9	559.0	473.7	347.2	170.6	14.6	0.0	0.0	0.0	0.0	0.0	0.0	584.9	0.0	306.3
01/16/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	209.5	201.2	294.7	439.2	529.0	523.9	389.0	237.2	147.3	14.0	0.0	0.0	0.0	0.0	0.0	0.0	529.0	0.0	249.8
01/17/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	166.1	278.9	451.2	540.0	572.4	549.0	465.0	340.6	164.7	9.6	0.0	0.0	0.0	0.0	0.0	0.0	572.4	0.0	296.1
01/18/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.9	167.1	332.7	470.1	560.8	595.0	569.5	485.5	353.7	168.3	11.6	0.0	0.0	0.0	0.0	0.0	0.0	595.0	0.0	310.9
01/19/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	159.3	324.5	469.5	543.3	447.6	553.0	479.6	337.3	157.5	20.3	0.0	0.0	0.0	0.0	0.0	0.0	553.0	0.0	292.3
01/20/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	172.6	346.3	489.3	580.1	614.0	590.6	506.4	373.4	180.7	9.9	0.1	0.0	0.0	0.0	0.0	0.0	614.0	0.1	323.4
01/21/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5	179.7	352.6	489.3	575.8	608.3	584.0	499.0	370.9	186.0	21.2	0.1	0.0	0.0	0.0	0.0	0.0	608.3	0.1	323.9
01/22/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5	176.2	342.7	478.5	570.0	604.1	579.7	498.3	369.8	189.2	22.6	0.1	0.0	0.0	0.0	0.0	0.0	604.1	0.1	320.9
01/23/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.1	182.6	361.2	507.1	598.5	629.9	605.2	518.9	387.0	203.5	24.4	0.2	0.0	0.0	0.0	0.0	0.0	629.9	0.2	336.5
01/24/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	189.0	363.4	505.0	596.2	633.6	611.0	525.1	391.9	176.1	29.8	0.2	0.0	0.0	0.0	0.0	0.0	633.6	0.2	337.0
01/25/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	74.7	262.7	440.1	611.3	644.0	619.4	528.1	350.4	134.6	25.5	0.2	0.0	0.0	0.0	0.0	0.0	644.0	0.2	308.3
01/26/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.2	187.8	366.5	513.8	605.8	638.3	612.1	527.7	396.8	217.0	25.1	0.2	0.0	0.0	0.0	0.0	0.0	638.3	0.2	342.9
01/27/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.5	195.5	375.8	523.0	615.4	650.6	625.5	542.5	407.2	225.6	24.8	0.3	0.0	0.0	0.0	0.0	0.0	650.6	0.3	350.9
01/28/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.9	199.2	378.4	523.1	617.8	653.7	630.4	544.4	411.2	232.5	25.4	0.3	0.0	0.0	0.0	0.0	0.0	653.7	0.3	353.5
01/29/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.3	198.2	370.3	511.4	609.1	643.9	621.3	537.1	405.7	230.0	26.8	0.3	0.0	0.0	0.0	0.0	0.0	643.9	0.3	348.4
01/30/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	116.2	337.3	523.0	609.4	642.6	488.5	507.9	376.1	239.6	35.7	0.2	0.0	0.0	0.0	0.0	0.0	642.6	0.2	324.3
01/31/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.9	206.2	165.7	132.8	330.6	273.9	159.6	120.1	271.9	174.6	46.2	0.3	0.0	0.0	0.0	0.0	0.0	330.6	0.3	158.8
Hourly Averages	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.4	162.2	319.8	457.0	544.3	571.0	540.0	455.6	329.6	166.1	16.6	0.1	0.0	0.0	0.0	0.0	0.0			

Maximum Hourly Radiation: 653.7 **Minimum Hourly Radiation:** 0.0 **Average Monthly Radiation:** 299.1

Maximum 24-Hour Mean: 353.5 **Minimum 24-Hour Mean:** 158.8

Total Number of Observations: 736 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

Note: All Statisitcs Based on Daylight Hours

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

FEBRUARY 2011

SOLAR RADIATION (W/m^2)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
02/01/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	112.2	367.0	480.2	568.8	553.5	651.9	569.2	401.5	182.5	35.7	0.4	0.0	0.0	0.0	0.0	0.0	651.9	0.0	302.6
02/02/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.1	214.8	404.3	560.6	663.1	704.8	681.0	590.8	448.4	264.1	31.6	0.5	0.0	0.0	0.0	0.0	0.0	704.8	0.0	353.4
02/03/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6	214.5	403.2	559.4	662.2	703.5	679.7	591.3	454.9	270.7	36.4	0.5	0.0	0.0	0.0	0.0	0.0	703.5	0.0	354.5
02/04/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.6	217.3	404.3	557.7	656.4	697.7	672.3	579.9	454.7	270.6	44.5	0.6	0.0	0.0	0.0	0.0	0.0	697.7	0.0	353.0
02/05/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.9	213.8	375.8	465.7	610.1	636.5	513.4	553.5	411.1	263.4	31.7	0.4	0.0	0.0	0.0	0.0	0.0	636.5	0.0	316.1
02/06/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.8	140.5	326.4	471.4	583.7	616.9	617.6	542.5	401.7	233.5	54.3	1.3	0.0	0.0	0.0	0.0	0.0	617.6	0.0	310.6
02/07/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.1	221.7	402.8	550.6	642.7	677.0	655.6	574.4	443.8	272.4	49.6	0.9	0.0	0.0	0.0	0.0	0.0	677.0	0.0	348.4
02/08/11	0.0	0.0	0.0	0.0	0.0	0.0	0.1	40.0	224.8	407.8	555.4	649.4	684.5	658.8	576.0	438.3	255.0	52.9	1.0	0.0	0.0	0.0	0.0	0.0	684.5	0.1	349.5
02/09/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.0	233.6	426.7	585.9	689.2	728.8	705.3	616.5	476.4	293.6	50.8	1.2	0.0	0.0	0.0	0.0	0.0	728.8	0.0	373.1
02/10/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.9	240.7	431.5	589.4	691.9	732.2	708.6	621.5	482.4	299.8	50.2	1.3	0.0	0.0	0.0	0.0	0.0	732.2	0.0	376.6
02/11/11	0.0	0.0	0.0	0.0	0.0	0.0	0.1	49.7	246.9	438.2	594.7	695.9	732.3	707.6	618.6	480.6	299.8	48.2	1.4	0.0	0.0	0.0	0.0	0.0	732.3	0.1	378.0
02/12/11	0.0	0.0	0.0	0.0	0.0	0.0	0.1	52.5	249.7	439.2	592.5	691.0	728.5	703.7	615.6	478.7	300.2	48.7	1.4	0.0	0.0	0.0	0.0	0.0	728.5	0.1	377.1
02/13/11	0.0	0.0	0.0	0.0	0.0	0.0	0.1	55.0	253.8	444.0	590.0	683.6	704.1	604.7	586.0	466.2	236.1	68.2	1.1	0.0	0.0	0.0	0.0	0.0	704.1	0.1	361.0
02/14/11	0.0	0.0	0.0	0.0	0.0	0.0	0.1	55.0	248.9	430.4	578.9	672.3	707.7	684.2	599.7	467.2	296.2	49.3	1.6	0.0	0.0	0.0	0.0	0.0	707.7	0.1	368.6
02/15/11	0.0	0.0	0.0	0.0	0.0	0.0	0.1	59.2	259.3	446.6	595.1	690.0	725.9	709.5	616.9	465.7	233.3	59.3	1.8	0.0	0.0	0.0	0.0	0.0	725.9	0.1	374.1
02/16/11	0.0	0.0	0.0	0.0	0.0	0.0	0.2	55.0	245.4	428.3	579.4	674.9	711.6	688.9	444.0	293.4	139.0	49.9	0.7	0.0	0.0	0.0	0.0	0.0	711.6	0.2	331.6
02/17/11	0.0	0.0	0.0	0.0	0.0	0.0	0.2	12.1	139.9	143.5	142.4	297.8	405.0	329.0	262.8	470.3	306.0	72.9	1.8	0.0	0.0	0.0	0.0	0.0	470.3	0.2	198.7
02/18/11	0.0	0.0	0.0	0.0	0.0	0.0	0.2	62.6	170.0	209.8	334.4	364.4	326.0	162.3	95.7	72.8	69.5	18.8	0.4	0.0	0.0	0.0	0.0	0.0	364.4	0.2	145.1
02/19/11	0.0	0.0	0.0	0.0	0.0	0.0	0.1	9.0	44.4	142.0	154.5	70.2	88.3	78.1	33.4	25.0	13.5	7.1	0.4	0.0	0.0	0.0	0.0	0.0	154.5	0.1	51.2
02/20/11	0.0	0.0	0.0	0.0	0.0	0.0	0.1	12.5	242.1	376.3	526.9	186.4	160.4	88.4	26.4	32.5	31.4	33.2	3.4	0.0	0.0	0.0	0.0	0.0	526.9	0.1	132.3
02/21/11	0.0	0.0	0.0	0.0	0.0	0.0	0.2	60.1	237.7	409.8	617.9	650.0	706.1	727.7	641.5	504.2	324.7	101.5	2.5	0.0	0.0	0.0	0.0	0.0	727.7	0.2	383.4
02/22/11	0.0	0.0	0.0	0.0	0.0	0.0	0.4	74.1	274.6	462.4	614.4	716.8	755.3	726.8	642.2	505.4	325.2	111.5	2.9	0.0	0.0	0.0	0.0	0.0	755.3	0.4	400.9
02/23/11	0.0	0.0	0.0	0.0	0.0	0.0	0.5	78.8	281.2	467.3	616.1	712.8	754.3	728.2	644.8	501.1	258.3	113.3	3.5	0.0	0.0	0.0	0.0	0.0	754.3	0.5	396.9
02/24/11	0.0	0.0	0.0	0.0	0.0	0.0	0.2	41.1	240.9	314.8	471.3	629.7	770.9	560.8	642.9	484.0	327.4	115.4	3.4	0.0	0.0	0.0	0.0	0.0	770.9	0.2	354.1
02/25/11	0.0	0.0	0.0	0.0	0.0	0.0	0.6	83.4	290.2	465.5	637.0	744.8	788.9	655.5	490.2	317.5	235.5	114.2	5.2	0.0	0.0	0.0	0.0	0.0	788.9	0.6	371.4
02/26/11	0.0	0.0	0.0	0.0	0.0	0.0	0.6	27.2	73.9	140.8	356.2	496.5	409.7	488.0	336.0	156.5	97.9	27.6	2.1	0.0	0.0	0.0	0.0	0.0	496.5	0.6	201.0
02/27/11	0.0	0.0	0.0	0.0	0.0	0.0	0.1	6.5	23.5	64.9	129.2	222.9	335.0	462.5	589.0	346.0	341.1	48.2	3.6	0.0	0.0	0.0	0.0	0.0	589.0	0.1	197.9
02/28/11	0.0	0.0	0.0	0.0	0.0	0.0	1.0	104.3	322.4	521.0	677.4	774.4	806.0	776.6	683.5	543.0	360.4	134.5	3.6	0.0	0.0	0.0	0.0	0.0	806.0	1.0	439.1
Hourly Averages	0.0	0.0	0.0	0.0	0.0	0.0	0.2	44.7	210.0	367.7	506.6	585.4	619.7	586.7	513.7	393.7	242.9	59.3	1.7	0.0	0.0	0.0	0.0	0.0			

Maximum Hourly Radiation: 806.0 **Minimum Hourly Radiation:** 0.0 **Average Monthly Radiation:** 317.9

Maximum 24-Hour Mean: 439.1 **Minimum 24-Hour Mean:** 51.2

Total Number of Observations: 672 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

Note: All Statisitcs Based on Daylight Hours

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

MARCH 2011

SOLAR RADIATION (W/m^2)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
03/01/11	0.0	0.0	0.0	0.0	0.0	0.0	1.1	100.9	308.0	496.9	647.4	740.0	779.1	746.7	534.8	396.7	354.6	130.5	2.5	0.0	0.0	0.0	0.0	0.0	779.1	1.1	403.0
03/02/11	0.0	0.0	0.0	0.0	0.0	0.0	1.4	100.4	302.6	486.7	633.9	725.7	761.4	735.6	650.7	516.6	339.8	120.4	3.5	0.0	0.0	0.0	0.0	0.0	761.4	1.4	413.7
03/03/11	0.0	0.0	0.0	0.0	0.0	0.0	0.9	73.2	305.7	492.9	650.5	708.4	706.6	710.5	667.9	526.4	342.5	131.1	4.8	0.0	0.0	0.0	0.0	0.0	710.5	0.9	409.3
03/04/11	0.0	0.0	0.0	0.0	0.0	0.0	1.7	101.5	305.7	497.0	650.4	752.5	786.4	764.3	675.0	534.3	352.0	137.0	5.0	0.0	0.0	0.0	0.0	0.0	786.4	1.7	427.9
03/05/11	0.0	0.0	0.0	0.0	0.0	0.0	2.7	131.5	310.4	473.9	655.7	729.4	761.5	729.4	635.8	490.1	333.9	140.9	5.7	0.0	0.0	0.0	0.0	0.0	761.5	2.7	415.5
03/06/11	0.0	0.0	0.0	0.0	0.0	0.0	1.5	75.1	258.8	477.9	597.7	731.5	708.4	673.0	587.7	450.6	184.0	64.5	6.1	0.0	0.0	0.0	0.0	0.0	731.5	1.5	370.5
03/07/11	0.0	0.0	0.0	0.0	0.0	0.0	0.7	18.0	125.9	326.9	534.8	499.7	259.6	675.1	549.7	534.9	367.3	143.6	6.8	0.0	0.0	0.0	0.0	0.0	675.1	0.7	311.0
03/08/11	0.0	0.0	0.0	0.0	0.0	0.0	1.7	56.4	224.8	493.1	685.2	782.7	818.0	787.6	693.5	550.7	364.8	150.3	7.1	0.0	0.0	0.0	0.0	0.0	818.0	1.7	432.0
03/09/11	0.0	0.0	0.0	0.0	0.0	0.0	3.2	133.2	349.2	543.6	693.0	785.0	817.0	788.4	692.8	552.3	367.8	153.5	6.7	0.0	0.0	0.0	0.0	0.0	817.0	3.2	452.7
03/10/11	0.0	0.0	0.0	0.0	0.0	0.0	4.5	123.4	255.5	438.0	540.9	540.8	706.9	665.6	675.4	519.4	381.9	157.2	9.3	0.0	0.0	0.0	0.0	0.0	706.9	4.5	386.1
03/11/11	0.0	0.0	0.0	0.0	0.0	0.0	4.1	140.9	349.7	538.1	685.0	783.0	818.0	792.0	702.1	564.8	378.6	161.3	8.0	0.0	0.0	0.0	0.0	0.0	818.0	4.1	455.8
03/12/11	0.0	0.0	0.0	0.0	0.0	0.0	3.2	120.3	329.5	515.5	701.4	786.0	741.6	721.3	679.4	557.0	360.8	164.4	10.8	0.0	0.0	0.0	0.0	0.0	786.0	3.2	437.8
03/13/11	0.0	0.0	0.0	0.0	0.0	0.0	5.0	144.9	353.4	538.5	688.4	781.3	816.0	787.9	698.1	558.3	373.6	158.6	11.7	0.0	0.0	0.0	0.0	0.0	816.0	5.0	455.1
03/14/11	0.0	0.0	0.0	0.0	0.0	0.0	6.0	152.8	360.0	548.2	624.6	777.0	831.0	507.7	418.2	577.8	379.3	159.4	5.1	0.0	0.0	0.0	0.0	0.0	831.0	5.1	411.3
03/15/11	0.0	0.0	0.0	0.0	0.0	0.0	5.7	158.7	366.8	557.7	679.2	736.0	651.3	728.6	558.1	290.2	368.2	97.8	13.6	0.0	0.0	0.0	0.0	0.0	736.0	5.7	400.9
03/16/11	0.0	0.0	0.0	0.0	0.0	0.0	7.1	166.6	370.0	559.0	699.1	817.0	825.0	803.0	706.2	559.8	379.8	175.1	6.8	0.0	0.0	0.0	0.0	0.0	825.0	6.8	467.3
03/17/11	0.0	0.0	0.0	0.0	0.0	0.0	6.2	142.6	339.1	522.7	616.1	729.1	818.0	751.9	670.0	484.7	348.9	164.4	7.7	0.0	0.0	0.0	0.0	0.0	818.0	6.2	430.9
03/18/11	0.0	0.0	0.0	0.0	0.0	0.0	12.3	172.7	381.2	564.8	716.0	810.0	840.0	811.0	703.2	579.4	344.6	105.8	15.4	0.0	0.0	0.0	0.0	0.0	840.0	12.3	465.9
03/19/11	0.0	0.0	0.0	0.0	0.0	0.0	11.6	162.0	379.8	579.2	727.8	830.0	864.0	832.0	723.7	536.3	289.2	111.5	11.6	0.0	0.0	0.0	0.0	0.0	864.0	11.6	466.1
03/20/11	0.0	0.0	0.0	0.0	0.0	0.0	16.3	165.6	412.9	536.0	724.6	732.8	646.0	490.4	374.1	253.8	283.8	104.7	14.3	0.0	0.0	0.0	0.0	0.0	732.8	14.3	365.8
03/21/11	0.0	0.0	0.0	0.0	0.0	0.0	5.6	71.7	122.6	85.5	133.1	155.4	261.0	138.7	96.5	20.0	16.1	13.0	7.6	0.0	0.0	0.0	0.0	0.0	261.0	5.6	86.7
03/22/11	0.0	0.0	0.0	0.0	0.0	0.0	5.4	191.5	503.1	593.5	618.6	817.0	871.0	848.0	743.9	612.3	419.5	202.4	11.2	0.0	0.0	0.0	0.0	0.0	871.0	5.4	495.2
03/23/11	0.0	0.0	0.0	0.0	0.0	0.0	20.6	207.1	426.6	617.5	764.4	858.0	885.0	851.0	753.7	607.7	418.4	207.6	10.3	0.0	0.0	0.0	0.0	0.0	885.0	10.3	509.8
03/24/11	0.0	0.0	0.0	0.0	0.0	0.0	19.5	195.2	412.7	606.2	754.7	849.0	882.0	853.0	755.2	604.4	412.9	202.3	13.3	0.0	0.0	0.0	0.0	0.0	882.0	13.3	504.6
03/25/11	0.0	0.0	0.0	0.0	0.0	0.0	23.3	197.6	410.3	599.2	715.7	806.0	866.0	844.0	741.2	588.6	401.6	198.1	15.6	0.0	0.0	0.0	0.0	0.0	866.0	15.6	492.9
03/26/11	0.0	0.0	0.0	0.0	0.0	0.0	24.3	202.8	413.7	600.3	738.1	837.0	868.0	834.0	735.8	589.3	401.6	194.2	17.6	0.0	0.0	0.0	0.0	0.0	868.0	17.6	496.7
03/27/11	0.0	0.0	0.0	0.0	0.0	0.0	26.5	211.1	424.5	618.8	764.1	854.0	881.0	850.0	754.3	609.3	420.1	210.1	19.2	0.0	0.0	0.0	0.0	0.0	881.0	19.2	511.0
03/28/11	0.0	0.0	0.0	0.0	0.0	0.0	29.6	210.7	420.7	608.4	753.9	843.0	872.0	838.0	743.4	600.3	412.8	209.4	20.5	0.0	0.0	0.0	0.0	0.0	872.0	20.5	504.8
03/29/11	0.0	0.0	0.0	0.0	0.0	0.0	32.2	218.5	429.0	615.4	759.4	849.0	874.0	833.0	745.5	604.9	386.1	135.8	16.5	0.0	0.0	0.0	0.0	0.0	874.0	16.5	499.9
03/30/11	0.0	0.0	0.0	0.0	0.0	0.0	30.1	219.2	431.3	608.6	759.5	848.0	885.0	842.0	743.7	600.4	418.8	211.1	28.5	0.0	0.0	0.0	0.0	0.0	885.0	28.5	509.7
03/31/11	0.0	0.0	0.0	0.0	0.0	0.0	32.7	228.7	440.0	623.1	764.8	852.0	880.0	847.0	748.0	605.5	420.7	217.0	25.2	0.0	0.0	0.0	0.0	0.0	880.0	25.2	514.2
Hourly Averages	0.0	0.0	0.0	0.0	0.0	0.0	11.2	148.2	349.1	527.8	667.0	753.1	773.6	744.5	650.2	518.6	355.6	152.7	11.2	0.0	0.0	0.0	0.0	0.0			

Maximum Hourly Radiation: 885.0 **Minimum Hourly Radiation:** 0.7 **Average Monthly Radiation:** 435.6

Maximum 24-Hour Mean: 514.2 **Minimum 24-Hour Mean:** 86.7

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

Note: All Statisitcs Based on Daylight Hours

APPENDIX KC1-H

HOURLY EVAPORATION DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JANUARY 2011

EVAPORATION (inches)

Day	Hour 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 Evaporation
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	0.001	0.001	0.001	0.000	0.001	0.003	0.000	0.003	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.012
01/02/11	0.000	0.000	0.000	0.001	0.000	0.000	0.003	0.003	0.005	0.031	0.027	0.010	0.000	0.000	0.000	0.000	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.095
01/03/11	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.026	0.000	0.003	0.018	0.026	0.010	0.013	0.001	0.001	0.003	0.000	0.001	0.000	0.000	0.104
01/04/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.008	0.006	0.001	0.028	0.015	0.005	0.010	0.010	0.007	0.005	0.002	0.001	0.000	0.003	0.000	0.102
01/05/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.006	0.013	0.026	0.038	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.100
01/06/11	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.001	0.000	0.001	0.023	0.020	0.013	0.010	0.010	0.007	0.005	0.005	0.005	0.005	0.003	0.003	0.114
01/07/11	0.005	0.000	0.002	0.002	0.003	0.003	0.000	0.003	0.003	0.003	0.001	0.000	0.000	0.003	0.003	0.005	0.005	0.008	0.007	0.002	0.005	0.003	0.003	0.002	0.071
01/08/11	0.003	0.003	0.001	0.002	0.003	0.001	0.003	0.003	0.001	0.003	0.000	0.003	0.003	0.000	0.003	0.003	0.003	0.002	0.004	0.002	0.003	0.002	0.003	0.000	0.054
01/09/11	0.003	0.002	0.000	0.000	0.001	0.000	0.000	0.003	0.001	0.003	0.001	0.003	0.000	0.000	0.003	0.003	0.003	0.002	0.005	0.002	0.002	0.000	0.000	0.002	0.039
01/10/11	0.003	0.000	0.000	0.003	0.000	0.002	0.000	0.001	0.003	0.006	0.001	0.002	0.002	0.003	0.000	0.000	0.002	0.000	0.001	0.000	0.000	0.000	0.003	0.000	0.032
01/11/11	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.208	INV	0.000	0.008	0.000	0.003	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.221
01/12/11	0.000	0.000	0.003	0.000	0.003	0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.009
01/13/11	0.000	0.000	0.001	0.002	0.000	0.003	0.000	0.000	0.002	0.002	0.000	0.001	0.000	0.000	0.003	0.000	0.000	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.018
01/14/11	0.000	0.000	0.000	0.000	0.002	0.003	0.001	0.000	0.002	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.002	0.001	0.000	0.000	0.000	0.017
01/15/11	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.002	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.009
01/16/11	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.006
01/17/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.001	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007
01/18/11	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.001	0.002	0.002	0.000	0.000	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.013
01/19/11	0.001	0.000	0.000	0.000	0.000	0.001	0.000	0.002	0.001	0.002	0.000	0.002	0.003	0.001	0.000	0.000	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.017
01/20/11	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.003	0.003	0.000	0.000	0.000	0.003	0.002	0.000	0.000	0.000	0.001	0.001	0.016
01/21/11	0.000	0.003	0.001	0.001	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.002	0.001	0.000	0.000	0.000	0.000	0.016
01/22/11	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.002	0.000	0.001	0.001	0.000	0.016
01/23/11	0.000	0.001	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.001	0.000	0.000	0.008
01/24/11	0.001	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.002	0.001	0.002	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.012
01/25/11	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.001	0.000	0.000	0.000	0.008
01/26/11	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.003	0.008
01/27/11	0.000	0.001	0.000	0.001	0.002	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.003	0.002	0.000	0.000	0.012
01/28/11	0.000	0.002	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.002	0.001	0.000	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.001	0.002	0.002	0.003	0.000	0.018
01/29/11	0.002	0.003	0.000	0.001	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.002	0.000	0.000	0.013
01/30/11	0.001	0.002	0.003	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.011
01/31/11	0.001	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.007

Total Evaporation for the month =1.185

Total Number of Observations: 735 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

FEBRUARY 2011

EVAPORATION (inches)

Day	Hour 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 Evaporation
02/01/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.007
02/02/11	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.004
02/03/11	0.000	0.001	0.000	0.003	0.000	0.000	0.000	0.000	0.002	0.001	0.001	0.000	0.001	0.000	0.001	0.000	0.003	0.000	0.000	0.001	0.002	0.000	0.000	0.000	0.016
02/04/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.005
02/05/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.008
02/06/11	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.002	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007
02/07/11	0.000	0.000	0.003	0.003	0.000	0.000	0.003	0.001	0.000	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.002	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.018
02/08/11	0.000	0.002	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.007
02/09/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.004
02/10/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.006
02/11/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.003	0.000	0.000	0.006
02/12/11	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.001	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.010
02/13/11	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.005
02/14/11	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.006
02/15/11	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.005
02/16/11	0.000	0.000	0.001	0.000	0.000	0.002	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.001	0.002	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.011
02/17/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
02/18/11	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003
02/19/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003
02/20/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
02/21/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	0.000	0.002	0.000	0.000	0.000	0.003	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.010
02/22/11	0.000	0.000	0.000	0.000	0.003	0.000	0.003	0.003	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012
02/23/11	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.006
02/24/11	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.005
02/25/11	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.005
02/26/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
02/27/11	0.001	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.008
02/28/11	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006

Total Evaporation for the month =0.188

Total Number of Observations: 672 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

MARCH 2011

EVAPORATION (inches)

Day	Hour 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 Evaporation
03/01/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004
03/02/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004
03/03/11	0.000	0.003	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009
03/04/11	0.000	0.000	0.002	0.003	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
03/05/11	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.010
03/06/11	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006
03/07/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.002
03/08/11	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.007
03/09/11	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.011
03/10/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004
03/11/11	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008
03/12/11	0.000	0.000	0.003	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.003	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016
03/13/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006
03/14/11	0.003	0.000	0.000	0.000	0.000	0.002	0.000	0.001	0.000	0.000	0.002	0.001	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012
03/15/11	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.002	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
03/16/11	0.000	0.003	0.003	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.002	0.000	0.000	0.000	0.000	0.003	0.000	0.003	0.002	0.000	0.000	0.000	0.000	0.000	0.018
03/17/11	0.000	0.000	0.000	0.000	0.003	0.002	0.000	0.000	0.000	0.000	0.003	0.000	0.003	0.000	0.003	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.017
03/18/11	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.003	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.010
03/19/11	0.000	0.000	0.003	0.002	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.013
03/20/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.000	0.000	0.001	0.002	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009
03/21/11	0.000	0.000	0.003	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.007
03/22/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.006
03/23/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	0.001	0.000	0.000	0.000	0.001	0.002	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.010
03/24/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.003
03/25/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.002	0.000	0.000	0.000	0.000	0.006
03/26/11	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.007
03/27/11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.004
03/28/11	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.000	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009
03/29/11	0.000	0.003	0.002	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.001	0.002	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015
03/30/11	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008
03/31/11	0.000	0.000	0.003	0.000	0.003	0.000	0.003	0.000	0.000	0.001	0.002	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.003	0.003	0.000	0.000	0.000	0.000	0.021

Total Evaporation for the month =0.282

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-I

HOURLY PRECIPITATION DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JANUARY 2011

PRECIPITATION (inches)

Day	Hour 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 Precipitation
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
01/02/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/03/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/04/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/05/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/06/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/07/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/08/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/09/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/10/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/11/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	INV	INV	INV	INV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/12/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/13/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/14/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/15/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/16/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/17/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/18/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/19/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/20/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/21/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/22/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/23/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/24/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/25/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/26/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/27/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/28/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/29/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/30/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/31/11	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05

Total Precipitation for the month = 0.06

Total Number of Observations: 732 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

FEBRUARY 2011

PRECIPITATION (inches)

Day	Hour 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 Precipitation
02/01/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/02/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/03/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/04/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/05/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/06/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/07/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/08/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/09/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/10/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/11/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/12/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/13/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/14/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/15/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/16/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/17/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/18/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/19/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.14	0.23	0.11	0.00	0.00	0.00	0.00	0.00	0.59
02/20/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
02/21/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/22/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/23/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/24/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/25/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/26/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/27/11	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
02/28/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.06	0.12	0.14	0.14	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58

Total Precipitation for the month = 1.36

Total Number of Observations: 672 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

MARCH 2011

PRECIPITATION (inches)

Day	Hour 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 Precipitation
03/01/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/02/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/03/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/04/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/05/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/06/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/07/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/08/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/09/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/10/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/11/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/12/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/13/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/14/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/15/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/16/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/17/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/18/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/19/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/20/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/21/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.10	0.07	0.06	0.07	0.03	0.00	0.00	0.00	0.39
03/22/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/23/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/24/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/25/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/26/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/27/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/28/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/29/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/30/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/31/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Precipitation for the month = 0.39

Total Number of Observations: 744 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

METEOROLOGICAL MEASUREMENTS

KC2 SITE

APPENDIX KC2-A: HOURLY WIND SPEED/DIRECTION DATA
APPENDIX KC2-B: HOURLY SIGMA THETA DATA
APPENDIX KC2-C: HOURLY DIFFERENTIAL TEMPERATURE DATA
APPENDIX KC2-D: HOURLY TEMPERATURE DATA
APPENDIX KC2-E: HOURLY RELATIVE HUMIDITY
APPENDIX KC2-F: HOURLY BAROMETRIC PRESSURE DATA
APPENDIX KC2-G: HOURLY SOLAR RADIATION DATA
APPENDIX KC2-H: HOURLY EVAPORATION DATA
APPENDIX KC2-I: HOURLY PRECIPITATION DATA

APPENDIX KC2-A

HOURLY WIND SPEED/DIRECTION DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JANUARY 2011

WIND SPEED (m/s)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/10/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/11/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/12/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/13/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/14/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/15/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/16/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/17/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	3.0	2.8	2.5	1.4	1.6	1.0	0.4	0.7	1.2	INV	INV	INV
01/18/11	0.6	0.6	0.8	1.1	1.5	2.0	2.1	1.3	1.7	1.3	2.3	2.4	2.3	4.0	3.4	3.1	2.8	2.4	0.8	0.9	0.8	1.5	0.7	0.6	4.0	0.6	1.7
01/19/11	0.4	0.1	0.9	2.4	1.0	1.1	2.0	1.3	1.8	1.1	2.1	2.2	2.9	3.8	4.2	4.3	3.8	2.4	1.2	1.0	1.8	0.9	0.6	1.0	4.3	0.1	1.9
01/20/11	1.5	5.5	7.4	6.0	7.1	4.7	6.0	8.6	8.4	6.6	7.8	6.6	4.8	4.4	5.0	3.8	3.3	3.1	2.9	1.1	2.0	2.0	1.5	1.6	8.6	1.1	4.7
01/21/11	1.8	1.8	2.4	2.8	3.1	2.0	2.7	4.0	4.0	2.6	2.9	2.8	2.8	3.9	3.5	2.9	2.8	2.3	1.5	1.1	1.1	1.1	1.1	0.9	4.0	0.9	2.4
01/22/11	1.2	2.8	2.0	1.8	3.0	4.4	2.5	2.7	1.5	1.4	1.3	1.8	3.0	3.3	3.4	3.7	4.3	2.7	1.0	0.9	0.5	1.6	1.1	0.8	4.4	0.5	2.2
01/23/11	0.7	1.1	2.0	5.6	13.2	13.4	14.5	13.2	13.4	12.0	11.2	10.1	7.1	4.1	4.7	4.4	3.8	3.9	5.2	3.6	2.7	1.8	2.4	1.7	14.5	0.7	6.5
01/24/11	2.1	1.2	2.1	3.7	1.3	1.2	1.2	3.6	1.2	1.2	1.3	1.6	2.6	3.3	3.4	3.0	2.5	2.8	1.9	3.2	3.8	3.5	7.1	10.4	10.4	1.2	2.9
01/25/11	9.1	8.1	8.0	7.3	7.6	4.6	5.6	6.7	4.3	4.8	3.8	2.9	3.3	3.0	2.3	2.5	1.7	2.8	3.7	1.6	2.0	0.9	2.3	3.2	9.1	0.9	4.3
01/26/11	1.3	1.4	2.2	3.0	INV	INV	INV	INV	12.0	8.6	8.5	9.3	6.5	4.1	3.3	4.0	3.6	4.7	4.8	7.0	7.5	9.3	10.5	9.8	12.0	1.3	6.1
01/27/11	11.9	7.8	5.9	5.0	4.1	3.5	4.1	5.8	4.0	5.0	5.4	4.6	4.0	4.6	6.0	4.6	3.7	3.2	2.6	3.5	2.0	3.6	2.9	1.2	11.9	1.2	4.5
01/28/11	1.8	4.1	3.9	3.2	2.2	4.6	5.1	7.1	5.1	3.3	3.0	4.7	3.1	3.0	3.4	3.3	1.9	1.9	1.5	0.8	1.8	2.2	2.4	2.5	7.1	0.8	3.2
01/29/11	1.9	2.1	1.4	1.5	2.2	2.1	3.4	6.0	3.2	1.9	1.4	2.1	3.1	3.2	3.8	3.6	3.7	3.2	1.4	0.3	0.9	0.3	0.2	0.1	6.0	0.1	2.2
01/30/11	0.5	1.3	2.0	2.6	1.6	0.5	2.5	6.1	5.5	4.2	3.4	4.5	3.7	4.7	4.2	4.4	3.2	2.8	1.3	0.5	0.8	0.5	3.1	4.8	6.1	0.5	2.9
01/31/11	3.5	1.7	1.1	2.6	1.8	2.5	2.1	1.7	0.5	1.6	2.7	2.1	3.8	5.4	4.9	2.4	2.9	2.4	0.9	1.0	1.0	1.2	2.4	2.3	5.4	0.5	2.3
Hourly Averages	2.7	2.8	3.0	3.5	3.8	3.6	4.1	5.2	4.8	4.0	4.1	4.1	3.8	3.9	4.0	3.5	3.1	2.9	2.2	1.9	2.0	2.1	2.6	2.8			

Maximum Hourly Wind Speed: 14.5 **Minimum Hourly Wind Speed:** 0.1 **Average Monthly Wind Speed:** 3.4

Maximum 24-Hour Mean: 6.5 **Minimum 24-Hour Mean:** 1.7

Total Number of Observations: 341 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JANUARY 2011

WIND DIRECTION (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/10/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/11/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/12/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/13/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/14/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/15/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/16/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/17/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	277	281	280	322	5	66	313	8	23
01/18/11	319	304	5	29	29	53	44	295	306	245	233	221	204	251	273	275	264	290	22	21	296	47	55	322
01/19/11	19	7	42	53	43	35	52	37	82	201	175	164	247	254	241	269	275	283	297	31	15	251	291	293
01/20/11	304	41	70	57	39	70	53	56	67	59	74	67	41	54	89	88	72	74	86	352	140	20	51	345
01/21/11	7	24	75	50	56	47	47	63	73	144	102	273	249	258	277	267	286	289	331	49	35	359	329	292
01/22/11	20	56	54	33	45	61	41	39	354	200	166	237	267	275	273	267	258	268	341	348	297	46	346	352
01/23/11	273	337	3	42	38	38	37	44	42	39	29	35	49	82	8	7	4	3	20	58	61	35	59	275
01/24/11	350	359	354	62	30	28	12	46	306	184	198	166	222	270	268	271	269	312	347	22	29	239	69	39
01/25/11	56	74	67	77	72	29	58	65	325	18	306	234	44	113	67	207	199	86	82	71	68	284	37	49
01/26/11	331	272	289	270	INV	INV	INV	INV	35	50	82	71	83	96	313	0	30	18	18	44	45	46	42	41
01/27/11	40	68	98	110	107	97	354	108	39	61	59	61	51	50	62	56	61	60	106	89	48	73	4	356
01/28/11	333	69	43	350	318	47	50	70	36	336	225	117	105	128	209	202	228	232	322	10	44	40	43	62
01/29/11	47	48	33	19	47	56	47	73	84	148	168	205	248	256	250	261	260	270	311	353	286	329	10	285
01/30/11	25	54	47	52	68	4	55	70	75	88	113	177	177	209	245	242	257	226	271	288	56	98	256	275
01/31/11	317	343	204	285	2	83	36	54	252	247	275	224	235	252	249	232	229	275	136	43	49	60	60	57
Hourly Averages	174	147	99	106	69	50	68	78	148	144	157	161	159	182	202	195	198	198	201	119	102	149	111	204

Total Number of Observations: 341 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

FEBRUARY 2011

WIND SPEED (m/s)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
02/01/10	INV	INV	INV	INV	INV	INV	INV	INV	0.3	1.3	2.1	4.2	4.9	4.9	7.0	7.4	5.5	6.4	5.9	5.2	3.2	3.0	4.1	5.1	INV	INV	INV
02/02/10	6.5	9.5	8.1	8.2	7.8	7.0	INV	INV	7.6	8.5	8.2	6.8	5.1	4.3	5.6	5.6	6.2	6.2	7.3	9.0	10.2	9.9	5.5	4.7	10.2	4.3	7.2
02/03/10	5.7	3.3	3.6	4.0	3.4	INV	INV	INV	1.2	2.0	2.5	3.3	2.0	3.0	4.3	3.9	4.2	3.7	1.6	1.5	0.5	1.4	3.4	1.2	5.7	0.5	2.8
02/04/10	1.4	1.5	1.3	1.9	3.3	1.8	INV	INV	0.8	0.8	1.5	1.9	2.5	1.8	2.2	3.5	3.2	2.5	1.9	2.0	1.0	0.5	1.1	1.6	3.5	0.5	1.8
02/05/10	1.2	0.6	0.4	0.6	1.3	0.8	INV	1.4	1.7	1.3	1.7	1.6	2.5	3.2	3.2	3.4	3.2	2.3	1.7	1.3	1.2	1.7	0.7	2.0	3.4	0.4	1.7
02/06/10	2.3	1.2	1.2	1.4	1.1	0.8	2.0	2.2	1.2	1.1	2.4	3.4	3.9	4.0	3.7	3.3	3.3	2.7	1.3	1.5	3.2	4.2	2.5	3.9	4.2	0.8	2.4
02/07/10	4.1	5.2	6.7	6.5	4.4	6.2	9.0	9.6	7.8	4.2	3.4	2.8	2.9	2.6	2.4	2.4	3.4	3.4	1.6	1.2	1.3	0.9	1.1	0.9	9.6	0.9	3.9
02/08/10	1.9	1.9	1.6	1.9	1.5	1.8	1.5	1.3	2.1	3.9	6.8	6.5	5.5	5.6	6.1	7.0	7.0	5.6	3.7	1.7	1.4	1.2	1.3	3.1	7.0	1.2	3.4
02/09/10	2.9	7.3	8.3	9.4	9.5	10.1	11.8	11.1	11.6	11.2	9.8	9.8	7.8	5.1	4.2	2.4	2.2	3.7	5.8	7.4	8.0	9.1	8.7	9.2	11.8	2.2	7.8
02/10/10	8.9	8.9	9.8	10.6	10.2	9.9	9.6	9.9	10.3	9.7	10.4	10.2	8.6	5.5	4.2	3.3	3.1	3.4	3.0	3.7	4.0	2.4	3.0	2.2	10.6	2.2	6.9
02/11/10	2.0	2.3	3.1	3.7	3.5	3.7	4.8	3.9	2.9	3.9	3.9	4.1	2.9	5.4	6.3	4.5	2.7	2.8	2.5	3.6	4.0	5.1	6.3	6.2	6.3	2.0	3.9
02/12/10	2.2	3.1	2.9	3.8	3.4	3.6	5.5	5.2	4.7	6.6	8.4	7.3	6.4	4.0	3.1	3.4	3.5	4.6	4.7	3.0	2.3	2.3	2.3	3.5	8.4	2.2	4.2
02/13/10	2.5	2.2	2.1	1.6	1.6	3.0	2.8	2.6	6.3	5.6	3.1	2.8	3.0	2.7	2.1	2.2	2.7	3.4	1.1	1.8	1.8	1.2	0.2	0.7	6.3	0.2	2.5
02/14/10	1.1	0.7	2.0	1.7	1.4	4.0	4.6	5.3	4.4	1.9	2.2	2.4	3.3	2.9	3.8	3.8	3.6	3.1	1.6	0.6	1.1	1.1	0.5	0.2	5.3	0.2	2.4
02/15/10	1.4	2.3	1.4	0.9	1.5	2.8	3.3	4.7	4.3	3.7	1.9	2.3	3.3	2.8	2.1	3.2	3.9	2.8	1.7	1.3	1.7	1.4	0.9	1.7	4.7	0.9	2.4
02/16/10	0.7	0.4	0.4	0.5	1.1	0.8	0.7	0.7	1.2	0.9	1.4	2.0	3.7	4.6	4.4	4.5	3.7	1.5	1.2	0.8	1.1	0.7	0.3	0.6	4.6	0.3	1.6
02/17/10	0.8	0.6	0.4	1.9	1.2	1.1	1.3	1.0	1.8	1.6	1.2	1.8	2.3	2.8	2.7	3.7	3.8	3.3	2.0	2.4	3.7	1.7	2.9	1.1	3.8	0.4	2.0
02/18/10	1.6	1.4	1.0	0.3	0.2	INV	INV	INV	1.1	2.2	1.5	2.7	3.3	2.3	3.3	1.6	1.5	1.9	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/19/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/20/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	5.9	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/21/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	1.7	2.0	INV	2.3	2.2	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/22/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	1.3	3.4	3.9	3.6	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/23/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	1.6	1.9	3.3	4.0	6.1	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/24/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	1.6	3.0	INV	3.6	3.7	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/25/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	4.1	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/26/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/27/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	5.1	INV	2.9	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/28/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
Hourly Averages	2.8	3.1	3.2	3.5	3.3	3.8	4.7	4.5	4.0	3.7	3.6	4.1	4.1	3.8	3.9	3.8	3.7	3.5	2.9	2.8	2.9	2.8	2.6	2.8			

Maximum Hourly Wind Speed: 11.8 **Minimum Hourly Wind Speed:** 0.2 **Average Monthly Wind Speed:** 3.5

Maximum 24-Hour Mean: 7.8 **Minimum 24-Hour Mean:** 1.6

Total Number of Observations: 428 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

FEBRUARY 2011

WIND DIRECTION (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
02/01/10	INV	INV	INV	INV	INV	INV	INV	INV	22	184	215	264	255	253	256	260	264	256	261	281	298	310	12	20
02/02/10	59	35	40	39	33	43	INV	INV	52	43	38	56	84	49	19	22	45	45	29	33	38	31	29	21
02/03/10	21	44	134	128	135	INV	INV	INV	60	224	208	181	217	235	347	345	342	12	208	288	304	99	76	158
02/04/10	282	7	252	295	28	350	INV	INV	234	152	190	185	219	206	246	268	260	266	302	328	71	17	28	55
02/05/10	119	303	253	306	311	34	INV	259	290	183	205	208	251	266	281	266	273	258	316	326	54	44	337	53
02/06/10	58	13	12	319	5	291	15	30	9	186	83	338	359	5	270	283	268	265	306	17	59	62	190	81
02/07/10	87	76	72	74	316	62	68	75	70	65	122	139	242	262	244	239	252	266	279	0	24	298	24	76
02/08/10	64	72	85	65	123	70	75	300	285	261	248	253	247	249	241	254	255	264	256	259	50	29	49	165
02/09/10	332	45	44	51	61	40	36	47	41	43	53	75	78	67	71	53	93	56	29	30	41	66	71	73
02/10/10	73	75	70	71	71	73	71	76	79	79	72	67	68	62	35	78	89	23	73	93	76	252	244	253
02/11/10	222	283	309	296	265	43	52	252	264	231	100	94	133	73	59	64	51	101	75	62	83	73	81	70
02/12/10	256	264	300	306	297	312	55	49	24	51	52	59	60	50	63	86	61	79	82	98	66	42	343	322
02/13/10	304	304	325	317	349	242	235	262	63	52	218	288	98	116	160	238	253	278	332	27	37	16	306	322
02/14/10	39	24	53	26	36	60	76	81	87	233	176	163	199	173	250	260	252	267	304	348	11	1	348	4
02/15/10	47	39	38	14	47	46	57	64	83	87	161	185	222	186	244	273	269	274	301	15	23	34	38	44
02/16/10	18	10	47	328	39	28	44	67	59	133	207	214	224	259	263	262	263	272	298	308	120	265	281	84
02/17/10	72	66	240	244	108	150	66	331	300	269	144	155	202	226	256	227	221	228	304	24	75	72	76	148
02/18/10	128	95	19	55	277	INV	INV	INV	203	136	186	208	207	213	277	271	248	316	INV	INV	INV	INV	INV	INV
02/19/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/20/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	215	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/21/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	253	251	INV	294	275	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/22/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	242	219	187	283	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/23/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	231	222	279	236	225	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/24/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	200	223	INV	235	266	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/25/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	168	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/26/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/27/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	344	INV	338	INV	INV	INV	INV	INV	INV	INV	INV
02/28/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
Hourly Averages	128	103	135	173	147	123	71	146	124	155	163	183	195	188	203	215	209	196	221	149	84	101	149	115

Total Number of Observations: 428 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

MARCH 2011

WIND SPEED (m/s)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
03/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	3.1	2.8	1.8	0.9	1.8	1.7	2.5	3.4	INV	INV	INV
03/10/11	2.3	2.9	2.1	1.3	2.5	2.8	5.8	6.1	5.4	7.7	6.4	4.3	3.5	3.1	2.6	2.7	2.3	2.9	2.1	1.1	2.2	1.5	0.5	1.9	7.7	0.5	3.2
03/11/11	0.7	1.0	3.5	3.5	3.8	3.5	3.4	4.7	4.4	2.5	1.7	2.8	3.2	4.0	4.1	4.4	4.0	4.1	2.5	1.7	0.8	0.3	0.5	0.4	4.7	0.3	2.7
03/12/11	0.5	0.5	1.7	0.9	2.7	1.2	1.2	0.8	0.6	1.7	3.4	3.2	4.1	4.3	4.6	4.6	4.0	3.5	2.5	1.8	1.5	0.8	1.1	0.5	4.6	0.5	2.1
03/13/11	0.3	1.1	0.8	1.1	0.7	0.3	0.7	1.1	1.2	1.1	1.7	2.6	2.8	3.4	3.2	3.2	3.7	3.8	3.0	1.2	0.8	0.5	0.8	0.5	3.8	0.3	1.6
03/14/11	0.2	0.3	1.3	0.4	1.5	1.4	1.0	0.8	2.0	2.3	2.7	2.7	2.8	3.8	4.1	3.8	4.5	4.3	2.6	1.0	0.8	1.0	0.4	0.1	4.5	0.1	1.9
03/15/11	0.9	1.7	2.8	1.2	1.3	1.5	2.5	2.8	4.7	2.7	2.2	3.7	3.5	3.0	2.7	2.6	3.8	3.4	2.0	0.9	1.1	0.5	1.5	0.6	4.7	0.5	2.2
03/16/11	0.7	0.7	1.5	1.9	2.1	2.5	3.8	5.1	3.1	2.0	2.3	3.2	4.4	4.5	4.6	5.0	4.2	4.6	3.0	0.9	1.5	1.9	1.9	1.5	5.1	0.7	2.8
03/17/11	1.7	1.9	1.2	2.4	3.9	3.9	3.5	6.0	4.8	3.8	3.7	4.2	4.6	5.4	6.0	6.0	5.9	5.6	4.3	1.7	0.9	1.1	1.8	2.6	6.0	0.9	3.6
03/18/11	1.9	1.3	2.1	3.8	3.4	4.2	4.3	4.7	4.2	2.7	4.3	4.2	4.5	5.2	5.1	5.0	5.1	3.4	2.2	1.1	0.8	0.5	1.3	1.0	5.2	0.5	3.2
03/19/11	1.3	1.3	1.1	0.4	1.6	1.6	1.0	0.8	0.7	2.3	3.1	4.1	4.5	4.8	5.3	4.9	5.0	3.6	2.7	1.2	1.2	1.4	0.7	0.5	5.3	0.4	2.3
03/20/11	1.6	1.0	0.7	3.9	3.1	7.0	7.8	5.9	6.8	5.5	5.2	5.7	4.4	4.4	4.9	3.0	1.7	2.0	1.5	2.4	1.3	1.3	0.8	1.6	7.8	0.7	3.5
03/21/11	1.7	4.2	3.4	4.5	5.7	4.4	7.0	6.4	7.6	7.2	7.5	6.2	5.0	4.5	4.3	2.4	3.3	3.6	3.0	1.3	2.0	1.3	1.2	1.1	7.6	1.1	4.1
03/22/11	0.2	1.0	2.1	0.8	0.7	0.9	2.0	1.5	1.6	INV	INV	2.0	2.9	3.2	4.1	4.4	4.0	3.1	3.1	1.5	0.4	1.6	0.8	0.6	4.4	0.2	1.9
03/23/11	1.8	0.7	0.4	3.8	5.3	2.9	3.7	2.4	2.6	2.4	2.2	3.3	3.6	4.3	3.2	3.4	4.3	4.3	3.4	1.5	1.5	1.9	1.0	0.7	5.3	0.4	2.7
03/24/11	1.7	0.8	0.7	1.2	1.0	0.8	1.0	1.3	1.7	1.8	1.7	2.6	4.0	4.4	3.9	3.9	3.7	3.5	3.2	1.6	1.5	0.6	0.8	0.5	4.4	0.5	2.0
03/25/11	1.3	0.4	1.5	0.9	2.1	1.3	1.5	0.9	1.3	1.6	3.3	4.3	4.6	4.9	5.6	5.8	5.3	5.5	5.2	2.7	0.8	1.3	0.4	0.5	5.8	0.4	2.6
03/26/11	0.6	1.1	2.0	1.4	2.5	3.7	4.2	4.3	2.6	1.9	2.1	3.0	3.1	4.6	5.3	5.8	5.8	4.4	3.7	3.6	2.1	0.6	0.7	0.9	5.8	0.6	2.9
03/27/11	0.3	0.5	0.9	0.9	1.3	0.6	2.0	4.3	3.0	3.8	4.6	3.5	3.7	4.3	3.2	3.0	3.2	3.2	2.3	1.3	1.3	0.8	0.5	0.2	4.6	0.2	2.2
03/28/11	0.3	1.7	0.6	1.1	0.7	2.0	2.4	1.1	1.5	1.6	2.0	2.6	2.8	3.3	3.7	4.4	4.9	4.8	4.3	1.9	1.8	2.0	0.9	1.0	4.9	0.3	2.2
03/29/11	0.5	0.6	0.3	0.4	1.1	1.0	1.1	1.9	2.3	3.2	2.9	3.0	3.2	3.0	4.0	4.1	4.2	4.7	3.2	1.5	0.9	0.3	0.5	0.6	4.7	0.3	2.0
03/30/11	0.7	1.3	0.5	0.9	0.7	1.2	1.3	0.8	0.9	1.4	2.2	3.5	4.0	3.9	4.4	4.9	4.6	4.2	3.8	1.4	1.1	1.8	0.9	0.6	4.9	0.5	2.1
03/31/11	0.7	0.8	2.6	1.9	3.0	1.9	2.8	2.1	1.5	2.0	2.1	2.8	3.7	3.6	3.4	4.2	5.5	4.4	3.3	1.4	1.5	2.3	2.1	0.8	5.5	0.7	2.5
Hourly Averages	1.0	1.2	1.5	1.8	2.3	2.3	2.9	3.0	2.9	2.9	3.2	3.5	3.8	4.1	4.2	4.2	4.2	3.9	3.0	1.5	1.3	1.2	1.0	1.0			

Maximum Hourly Wind Speed: 7.8 **Minimum Hourly Wind Speed:** 0.1 **Average Monthly Wind Speed:** 2.6

Maximum 24-Hour Mean: 4.1 **Minimum 24-Hour Mean:** 1.6

Total Number of Observations: 534 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

MARCH 2011

WIND DIRECTION (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
03/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	270	273	293	344	50	30	312	79
03/10/11	294	330	284	338	321	327	53	54	27	43	48	99	82	85	141	210	182	273	305	29	45	31	356	20
03/11/11	31	311	58	49	57	45	45	65	82	175	191	239	254	272	260	235	257	273	294	327	221	314	261	315
03/12/11	335	53	56	64	53	31	51	320	186	141	181	186	198	268	261	234	243	263	296	322	1	209	52	323
03/13/11	300	337	16	23	3	5	301	36	189	188	251	228	275	253	252	262	269	272	284	322	16	317	287	281
03/14/11	28	327	35	342	44	32	13	44	137	187	224	268	243	255	271	252	277	264	267	32	17	358	314	53
03/15/11	310	46	49	9	353	40	56	73	87	147	191	245	277	258	253	263	268	245	261	6	5	337	13	305
03/16/11	22	27	41	43	46	54	62	76	77	103	179	205	262	251	251	238	248	261	269	310	52	48	40	40
03/17/11	69	44	41	51	59	77	72	73	71	93	137	169	214	208	214	238	236	251	270	278	358	58	51	48
03/18/11	49	31	80	80	76	79	78	73	70	106	169	180	195	203	218	240	241	234	218	280	326	215	47	62
03/19/11	44	321	332	49	33	41	288	311	124	162	197	239	261	254	244	260	264	286	287	337	39	41	14	12
03/20/11	56	10	306	62	49	74	69	67	57	89	110	144	173	219	287	282	266	264	3	65	58	86	163	302
03/21/11	99	145	154	156	162	181	193	176	170	187	219	240	268	286	258	273	248	250	257	274	112	263	258	251
03/22/11	220	208	272	314	232	164	190	179	131	INV	INV	173	181	245	269	277	268	276	271	304	20	50	280	331
03/23/11	37	275	22	68	81	65	77	28	266	244	101	160	133	170	209	232	259	264	266	278	41	76	301	63
03/24/11	55	4	313	32	297	63	297	277	196	84	106	261	257	259	244	264	248	248	282	341	348	289	333	22
03/25/11	48	39	30	11	50	30	23	52	105	211	266	249	252	251	249	230	239	267	274	262	88	62	48	53
03/26/11	343	356	30	49	68	77	81	79	91	158	22	208	240	245	249	235	232	248	263	263	262	253	287	292
03/27/11	309	93	223	0	354	3	48	75	96	158	180	194	223	257	252	231	255	252	250	312	345	311	35	321
03/28/11	272	46	52	17	42	48	53	12	99	216	238	251	253	283	249	257	254	271	266	303	333	343	47	269
03/29/11	19	288	309	342	43	324	21	302	247	99	103	157	165	219	239	274	266	263	265	304	341	326	8	344
03/30/11	319	24	279	16	319	52	74	239	103	190	263	264	256	270	254	265	256	252	261	307	9	17	259	330
03/31/11	345	13	51	37	69	38	74	51	240	218	201	283	246	238	255	267	266	265	277	324	46	48	34	309
Hourly Averages	164	151	138	98	128	84	101	121	130	152	170	211	223	239	245	251	253	262	260	258	136	177	165	192

Total Number of Observations: 534 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-B

HOURLY SIGMA THETA DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JANUARY 2011

SIGMA THETA (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/10/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/11/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/12/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/13/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/14/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/15/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/16/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/17/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	19	14	12	15	47	50	23	47	82
01/18/11	54	29	50	42	53	37	28	43	33	38	39	26	43	23	17	21	15	18	22	41	16	52	33	50
01/19/11	33	23	8	12	44	36	15	52	34	26	42	47	39	22	19	21	16	17	20	25	30	44	52	36
01/20/11	52	24	14	18	18	42	31	19	14	18	14	25	31	32	16	22	23	19	32	59	75	62	55	92
01/21/11	59	69	61	32	26	34	30	16	14	62	61	49	43	17	17	19	19	20	19	43	27	69	65	40
01/22/11	46	29	51	35	16	18	26	43	58	46	24	44	31	19	20	20	12	15	33	30	41	11	23	22
01/23/11	59	32	77	57	12	13	12	15	14	12	12	13	26	70	45	31	31	23	22	19	83	60	50	50
01/24/11	83	39	58	28	68	48	76	49	52	37	40	57	53	23	21	21	21	19	58	25	33	86	31	13
01/25/11	18	15	15	14	17	66	48	29	83	52	76	78	48	37	90	44	35	25	13	52	54	38	41	44
01/26/11	57	65	54	68	INV	INV	INV	INV	11	30	23	25	38	51	50	45	54	25	20	15	12	14	14	15
01/27/11	11	24	30	31	36	72	78	32	53	43	27	35	33	41	17	29	30	34	25	15	35	17	69	70
01/28/11	29	25	86	48	24	37	32	11	49	47	49	47	37	38	29	22	30	30	26	20	21	29	15	45
01/29/11	18	23	35	62	34	38	18	7	55	39	27	41	29	22	23	23	20	13	15	14	9	13	12	4
01/30/11	24	16	11	9	15	53	17	11	16	18	36	22	26	29	20	23	25	19	75	30	15	44	26	37
01/31/11	30	49	37	27	49	37	83	20	41	44	18	37	22	14	15	38	31	21	66	54	50	27	16	21

Total Number of Observations: 341 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

FEBRUARY 2011

SIGMA THETA (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
02/01/10	INV	INV	INV	INV	INV	INV	INV	INV	2	36	58	18	15	20	17	14	15	13	12	21	16	35	19	19
02/02/10	17	12	16	14	13	17	INV	INV	19	17	16	32	45	73	38	36	28	24	30	22	16	15	25	27
02/03/10	25	65	50	66	45	INV	INV	INV	38	46	41	33	71	75	49	46	27	55	35	28	15	52	26	59
02/04/10	58	64	62	47	66	76	INV	INV	58	37	40	46	37	47	38	23	16	18	18	27	43	38	57	27
02/05/10	67	53	13	41	63	28	INV	56	21	73	31	44	38	21	27	25	22	20	16	34	12	59	60	57
02/06/10	33	50	54	75	57	46	42	79	63	64	83	35	27	62	22	23	16	13	36	22	14	32	98	61
02/07/10	22	20	14	15	87	49	14	13	16	56	46	54	47	65	55	48	18	11	31	37	50	54	57	36
02/08/10	18	23	66	26	57	38	30	60	35	21	14	14	18	21	19	18	17	11	14	40	40	38	81	89
02/09/10	98	15	13	14	14	14	12	15	13	14	15	18	18	33	31	66	69	43	12	12	11	13	11	12
02/10/10	13	11	10	11	12	13	14	13	13	15	15	14	15	21	33	45	56	35	34	20	42	56	52	65
02/11/10	72	44	29	26	47	83	70	36	35	25	51	34	51	25	18	24	61	32	23	19	21	22	14	25
02/12/10	52	40	36	31	39	59	47	38	41	21	17	21	16	35	48	29	32	15	17	67	27	21	40	30
02/13/10	25	30	47	54	61	57	77	87	30	51	69	93	43	51	86	47	31	19	19	31	28	37	9	52
02/14/10	35	15	29	52	48	15	9	9	30	54	36	47	34	42	28	25	25	17	21	28	44	52	31	21
02/15/10	33	20	17	32	15	12	19	15	21	51	46	46	25	43	41	25	17	11	29	36	47	40	34	10
02/16/10	31	33	27	28	57	28	43	30	83	49	47	49	32	23	23	19	18	48	17	38	75	38	22	28
02/17/10	15	20	41	82	38	44	23	52	26	29	64	42	54	42	50	41	29	25	28	29	8	37	17	62
02/18/10	41	47	65	35	37	INV	INV	INV	63	59	39	32	23	38	16	20	20	48	INV	INV	INV	INV	INV	INV
02/19/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/20/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/21/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	37	30	INV	51	56	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/22/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	42	55	42	36	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/23/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	16	32	22	48	22	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/24/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	51	27	INV	28	33	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/25/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	26	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/26/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/27/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	25	INV	23	INV	INV	INV	INV	INV	INV	INV	INV
02/28/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV

Total Number of Observations: 428 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

MARCH 2011

SIGMA THETA (degrees)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
03/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	24	16	21	17	23	48	77	84
03/10/11	64	61	46	76	75	81	51	42	42	27	32	47	51	44	51	67	41	22	30	46	9	36	37	47
03/11/11	45	82	9	11	24	21	19	15	10	54	56	47	34	28	23	25	23	14	23	14	43	16	26	45
03/12/11	46	30	18	25	11	60	47	31	41	46	23	44	30	24	24	28	22	19	16	13	60	77	57	22
03/13/11	21	66	38	40	30	33	52	31	82	50	48	48	43	42	30	44	25	19	13	20	31	25	36	35
03/14/11	16	21	37	35	19	63	40	38	50	22	39	33	54	43	23	30	16	16	22	41	51	45	21	9
03/15/11	55	24	12	64	70	20	43	37	15	57	41	34	28	49	51	37	19	19	11	28	45	52	61	41
03/16/11	26	16	23	20	21	19	46	10	44	46	53	39	26	26	28	22	24	13	17	26	14	15	30	54
03/17/11	19	23	18	8	11	26	54	12	18	26	65	31	29	23	23	18	21	17	10	13	52	48	13	10
03/18/11	25	51	43	11	15	8	10	10	15	29	22	30	34	29	25	34	24	20	27	66	73	60	29	44
03/19/11	39	25	26	49	20	43	53	63	28	36	44	27	20	20	19	25	23	15	14	43	15	14	53	38
03/20/11	32	72	38	22	37	9	8	21	20	26	17	29	42	29	18	19	43	35	72	22	57	30	51	27
03/21/11	39	17	25	16	17	13	14	13	13	16	13	18	19	17	23	25	21	16	14	52	17	79	33	46
03/22/11	16	33	27	36	24	29	24	20	46	INV	INV	62	43	59	33	25	19	19	13	20	17	19	66	52
03/23/11	19	47	27	32	11	31	24	69	26	78	54	39	39	27	40	41	22	14	12	24	42	60	57	11
03/24/11	10	48	27	46	13	41	44	28	72	41	69	51	25	28	33	31	38	27	16	28	63	50	58	36
03/25/11	7	33	17	46	32	56	28	52	45	41	26	25	21	27	22	26	23	22	12	13	73	18	9	10
03/26/11	30	59	18	53	13	10	10	15	32	62	80	57	48	36	26	19	23	23	18	12	20	20	42	16
03/27/11	23	22	65	60	20	31	11	16	29	20	19	36	48	27	43	33	34	23	15	38	23	56	37	30
03/28/11	26	12	13	42	33	12	15	68	31	75	51	48	44	28	25	20	20	16	12	26	24	21	47	79
03/29/11	33	30	12	35	26	34	51	54	27	56	43	58	34	64	32	24	21	17	13	15	65	18	43	36
03/30/11	43	57	46	42	40	40	37	65	49	41	44	30	30	28	32	21	19	19	12	35	27	33	70	43
03/31/11	18	47	11	36	24	59	68	79	64	72	47	97	38	41	49	30	16	14	15	24	14	41	26	52

Total Number of Observations: 534 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-C

HOURLY DIFFERENTIAL TEMPERATURE DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JANUARY 2011

10-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/10/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/11/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/12/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/13/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/14/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/15/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/16/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/17/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	19.2	18.8	17.9	17.0	16.3	15.1	14.9	15.1	14.1	INV	INV	INV
01/18/11	13.8	14.4	13.9	13.7	13.3	13.3	13.3	12.7	13.5	14.2	17.5	19.9	21.0	20.9	20.5	20.1	19.9	18.8	18.0	16.6	15.9	16.1	16.4	15.5	21.0	12.7	16.4
01/19/11	15.3	14.7	14.4	14.5	13.7	13.6	13.8	13.1	14.1	14.2	16.7	17.7	18.3	18.6	19.1	19.0	18.8	18.2	17.3	16.7	16.7	15.2	15.0	14.1	19.1	13.1	15.9
01/20/11	14.4	15.5	14.6	14.3	13.6	13.4	12.7	12.2	12.3	13.4	13.6	14.1	14.9	15.5	15.9	16.4	16.6	16.1	15.3	14.1	13.5	12.8	12.1	11.4	16.6	11.4	14.1
01/21/11	11.2	10.8	10.3	10.2	10.0	9.6	9.5	9.3	9.6	10.9	13.2	15.4	16.9	16.8	16.6	16.5	16.4	15.5	15.0	13.7	13.1	12.7	12.2	12.4	16.9	9.3	12.8
01/22/11	12.5	12.8	12.1	12.6	11.9	11.7	11.7	11.0	11.3	12.4	14.3	16.3	16.9	16.9	17.2	17.1	16.9	16.0	15.1	14.7	14.0	13.7	13.8	13.4	17.2	11.0	14.0
01/23/11	12.0	11.7	11.4	11.5	11.4	10.9	10.4	9.7	10.1	11.5	11.2	12.4	13.4	14.8	15.5	15.8	16.1	15.5	14.9	14.3	13.0	12.5	11.9	11.3	16.1	9.7	12.6
01/24/11	11.7	11.3	10.6	10.5	9.6	9.4	9.0	9.1	9.2	10.2	12.6	14.3	15.3	15.7	15.7	15.9	16.1	15.1	14.0	14.3	13.8	13.3	12.8	12.8	16.1	9.0	12.6
01/25/11	12.4	12.4	12.7	13.0	12.6	11.6	11.4	11.1	10.7	11.1	12.0	13.1	14.2	14.9	15.5	16.0	16.0	15.1	14.0	13.3	13.0	11.9	12.2	11.9	16.0	10.7	13.0
01/26/11	11.0	10.5	10.4	11.0	INV	INV	INV	INV	11.8	11.8	12.4	13.0	14.4	15.7	16.6	16.7	16.6	15.9	14.8	14.5	14.0	13.8	13.7	13.6	16.7	10.4	13.6
01/27/11	13.0	12.8	12.9	11.7	11.1	10.5	10.8	9.8	10.1	11.2	12.2	13.7	15.0	16.0	16.7	17.4	17.6	17.3	16.2	15.0	14.2	14.1	13.7	13.0	17.6	9.8	13.6
01/28/11	12.7	13.6	12.7	12.2	12.2	12.6	12.3	12.7	12.5	13.6	14.9	16.0	17.3	17.7	18.4	18.6	18.6	18.1	16.8	15.9	14.2	13.6	13.6	12.4	18.6	12.2	14.7
01/29/11	13.5	13.0	12.3	11.9	11.2	11.0	11.1	11.0	11.0	12.6	14.2	15.8	16.3	16.5	17.0	17.0	16.9	16.2	15.4	15.0	13.2	13.0	13.4	13.0	17.0	11.0	13.8
01/30/11	12.7	12.8	12.4	12.2	11.5	10.6	10.6	11.7	11.4	12.1	13.6	15.1	15.9	16.4	16.6	17.1	17.1	17.1	16.0	15.0	14.7	14.7	13.9	12.9	17.1	10.6	13.9
01/31/11	11.8	11.1	10.5	9.0	8.1	8.1	7.7	7.1	7.1	7.8	7.5	7.0	8.2	8.4	8.5	8.0	8.6	9.0	8.7	8.7	8.7	8.3	8.7	8.2	11.8	7.0	8.5
Hourly Averages	12.7	12.7	12.2	12.0	11.6	11.2	11.1	10.8	11.0	11.9	13.3	14.5	15.6	16.1	16.4	16.7	16.7	16.1	15.2	14.5	13.8	13.3	13.2	12.7			

Maximum Hourly Temperature: 21.0 **Minimum Hourly Temperature:** 7.0 **Average Monthly Temperature:** 13.5

Maximum 24-Hour Mean: 16.4 **Minimum 24-Hour Mean:** 8.5

Total Number of Observations: 341 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JANUARY 2011

2-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/10/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/11/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/12/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/13/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/14/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/15/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/16/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/17/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	19.7	19.2	17.9	16.7	15.6	14.0	13.9	13.9	12.9	INV	INV	INV
01/18/11	12.4	12.5	12.3	12.2	12.2	12.0	12.0	11.7	12.7	14.4	18.1	20.6	21.8	21.6	21.1	20.5	20.2	18.9	17.0	15.8	14.9	14.1	14.4	13.7	21.8	11.7	15.7
01/19/11	13.6	13.0	12.6	12.6	12.3	12.1	12.0	11.7	13.0	14.6	17.5	18.7	19.0	19.3	19.9	19.6	19.1	18.2	17.1	15.5	15.7	13.9	13.8	13.0	19.9	11.7	15.3
01/20/11	13.4	15.1	14.3	14.0	13.4	13.1	12.5	11.9	12.3	14.0	14.7	15.2	15.9	16.7	17.0	17.1	17.0	16.0	15.0	13.2	12.8	12.2	11.2	10.7	17.1	10.7	14.1
01/21/11	10.5	9.9	9.6	9.5	9.4	8.5	8.6	8.8	9.3	11.3	14.0	16.0	17.6	17.5	17.2	17.0	16.7	15.7	14.7	12.7	11.7	11.5	10.9	11.3	17.6	8.5	12.5
01/22/11	11.5	11.9	11.3	10.9	10.9	11.1	10.3	10.2	10.6	12.7	14.8	17.0	17.5	17.6	17.8	17.7	17.2	16.1	14.8	13.9	13.0	12.2	12.8	12.3	17.8	10.2	13.6
01/23/11	10.7	10.3	10.4	11.1	11.2	10.7	10.2	9.6	10.1	11.9	11.7	13.2	14.5	15.7	16.3	16.3	16.4	15.6	14.8	14.0	12.4	11.7	11.0	10.6	16.4	9.6	12.5
01/24/11	10.9	10.2	9.8	9.8	8.7	8.2	8.1	8.4	8.1	10.5	13.1	15.0	16.0	16.4	16.3	16.5	16.5	15.2	13.6	14.1	13.6	13.1	12.6	12.6	16.5	8.1	12.4
01/25/11	12.2	12.1	12.4	12.7	12.4	11.4	11.2	10.9	10.6	11.1	12.5	13.8	15.1	15.9	16.4	17.0	16.4	15.3	14.0	12.8	12.4	11.0	11.5	11.3	17.0	10.6	13.0
01/26/11	9.9	9.8	9.8	10.4	INV	INV	INV	INV	11.8	12.2	13.3	13.9	15.4	16.6	17.1	17.3	17.0	16.0	14.7	14.3	13.8	13.6	13.6	13.4	17.3	9.8	13.7
01/27/11	12.9	12.5	12.7	11.4	10.9	10.2	10.5	9.6	10.0	11.8	13.1	14.7	16.0	17.2	18.0	18.2	18.1	17.3	16.0	14.6	13.1	13.4	13.0	11.7	18.2	9.6	13.6
01/28/11	11.9	12.7	12.0	11.8	11.5	12.1	11.8	12.2	12.2	13.8	15.6	17.0	18.2	18.8	19.5	19.8	19.1	18.4	16.5	14.4	12.9	12.4	12.3	11.5	19.8	11.5	14.5
01/29/11	11.6	11.6	10.6	11.0	9.7	9.6	10.3	10.4	10.6	13.1	14.8	16.6	17.0	17.2	17.7	17.6	17.3	16.3	15.1	13.9	12.6	11.8	11.7	11.3	17.7	9.6	13.3
01/30/11	11.0	10.7	10.2	10.0	9.7	9.0	9.3	11.2	11.2	12.5	14.4	16.7	17.3	17.9	17.4	17.8	17.5	17.3	15.6	14.6	14.0	14.0	13.8	12.9	17.9	9.0	13.6
01/31/11	11.9	11.1	10.4	9.1	8.2	7.9	7.5	6.5	6.9	8.1	7.8	7.3	8.8	8.9	8.9	8.4	9.2	9.2	8.7	8.5	8.2	7.7	8.4	7.8	11.9	6.5	8.6
Hourly Averages	11.7	11.7	11.3	11.2	10.8	10.5	10.3	10.2	10.7	12.3	14.0	15.4	16.4	16.9	17.2	17.4	17.1	16.2	14.9	13.8	13.0	12.4	12.3	11.8			

Maximum Hourly Temperature: 21.8 **Minimum Hourly Temperature:** 6.5 **Average Monthly Temperature:** 13.3

Maximum 24-Hour Mean: 15.7 **Minimum 24-Hour Mean:** 8.6

Total Number of Observations: 341 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JANUARY 2011

DIFFERENTIAL TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/10/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/11/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/12/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/13/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/14/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/15/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/16/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/17/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	-0.535	-0.394	-0.029	0.297	0.756	1.058	0.985	1.180	1.195	INV	INV	INV
01/18/11	1.392	1.869	1.672	1.473	1.106	1.244	1.283	1.014	0.761	-0.232	-0.591	-0.667	-0.771	-0.650	-0.580	-0.467	-0.284	-0.072	0.993	0.829	1.017	1.920	2.039	1.854	2.039	-0.771	0.673
01/19/11	1.673	1.708	1.870	1.873	1.442	1.492	1.747	1.452	1.106	-0.354	-0.842	-0.951	-0.637	-0.684	-0.812	-0.513	-0.307	0.000	0.238	1.174	1.046	1.233	1.196	1.043	1.873	-0.951	0.633
01/20/11	1.036	0.397	0.365	0.335	0.231	0.338	0.286	0.270	0.093	-0.662	-1.115	-1.122	-0.946	-1.134	-1.112	-0.748	-0.399	0.066	0.334	0.934	0.689	0.691	0.936	0.749	1.036	-1.134	0.021
01/21/11	0.696	0.904	0.719	0.664	0.593	1.149	0.858	0.515	0.254	-0.475	-0.826	-0.603	-0.648	-0.642	-0.616	-0.533	-0.354	-0.136	0.291	0.962	1.470	1.236	1.214	1.093	1.470	-0.826	0.324
01/22/11	1.062	0.874	0.805	1.643	1.048	0.661	1.344	0.848	0.743	-0.368	-0.522	-0.667	-0.585	-0.623	-0.640	-0.569	-0.363	-0.095	0.289	0.852	1.001	1.533	1.061	1.102	1.643	-0.667	0.435
01/23/11	1.277	1.351	0.972	0.367	0.202	0.163	0.156	0.123	0.071	-0.337	-0.539	-0.799	-1.019	-0.885	-0.756	-0.567	-0.365	-0.107	0.109	0.348	0.579	0.758	0.892	0.649	1.351	-1.019	0.110
01/24/11	0.768	1.061	0.784	0.690	0.887	1.138	0.980	0.726	1.088	-0.346	-0.491	-0.708	-0.710	-0.681	-0.625	-0.574	-0.368	-0.122	0.421	0.242	0.234	0.242	0.199	0.184	1.138	-0.710	0.209
01/25/11	0.245	0.310	0.328	0.308	0.244	0.148	0.203	0.224	0.074	-0.064	-0.434	-0.708	-0.917	-1.065	-0.883	-0.963	-0.427	-0.181	0.060	0.513	0.552	0.821	0.628	0.541	0.821	-1.065	-0.018
01/26/11	1.021	0.609	0.589	0.563	INV	INV	INV	INV	-0.013	-0.425	-0.857	-0.905	-0.921	-0.874	-0.507	-0.563	-0.327	-0.086	0.092	0.171	0.187	0.171	0.139	0.160	1.021	-0.921	-0.089
01/27/11	0.151	0.249	0.216	0.227	0.168	0.285	0.296	0.186	0.121	-0.524	-0.876	-1.044	-1.070	-1.134	-1.204	-0.829	-0.414	-0.032	0.241	0.468	1.074	0.693	0.696	1.384	1.384	-1.204	-0.028
01/28/11	0.847	0.826	0.719	0.443	0.698	0.521	0.516	0.478	0.292	-0.160	-0.674	-0.996	-0.979	-1.046	-1.181	-1.215	-0.504	-0.235	0.351	1.557	1.362	1.168	1.309	0.945	1.557	-1.215	0.210
01/29/11	1.940	1.335	1.697	0.856	1.512	1.416	0.862	0.607	0.336	-0.505	-0.633	-0.824	-0.750	-0.635	-0.744	-0.570	-0.415	-0.069	0.304	1.158	0.644	1.190	1.718	1.772	1.940	-0.824	0.508
01/30/11	1.759	2.050	2.246	2.120	1.800	1.652	1.320	0.465	0.144	-0.443	-0.879	-1.598	-1.336	-1.444	-0.749	-0.732	-0.427	-0.226	0.384	0.460	0.705	0.617	0.091	0.014	2.246	-1.598	0.333
01/31/11	-0.041	0.006	0.102	-0.085	-0.059	0.123	0.225	0.617	0.222	-0.318	-0.283	-0.370	-0.641	-0.531	-0.416	-0.429	-0.524	-0.279	0.001	0.188	0.416	0.599	0.360	0.431	0.617	-0.641	-0.029
Hourly Averages	0.988	0.968	0.935	0.820	0.759	0.795	0.775	0.579	0.378	-0.372	-0.683	-0.854	-0.852	-0.859	-0.773	-0.654	-0.391	-0.107	0.294	0.707	0.802	0.924	0.911	0.874			

Maximum Hourly Differential Temperature: 2.246 **Minimum Hourly Differential Temperature:** -1.598

Total Number of Observations: 341 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

FEBRUARY 2011

10-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
02/01/10	INV	INV	INV	INV	INV	INV	INV	INV	5.1	6.0	7.2	8.2	8.3	9.3	10.0	10.2	10.3	10.7	9.9	8.9	7.3	5.8	4.9	3.3	INV	INV	INV
02/02/10	1.9	0.9	0.0	-0.8	-1.4	-2.1	INV	INV	-3.9	-3.9	-3.4	-2.7	-2.2	-1.1	-0.5	-0.4	-0.5	-1.2	-2.2	-2.8	-3.2	-3.4	-3.7	-3.9	1.9	-3.9	-1.8
02/03/10	-4.3	-4.9	-5.4	-5.1	-5.6	INV	INV	INV	-6.2	-5.4	-4.2	-2.6	-1.0	1.3	2.8	3.9	4.4	4.0	1.5	0.8	0.4	-0.1	0.3	-0.9	4.4	-6.2	-1.3
02/04/10	-1.3	-1.1	-1.5	-2.2	-1.5	-1.9	INV	INV	-1.8	0.3	2.8	4.8	6.6	7.8	9.3	9.4	8.6	7.9	6.6	5.9	5.1	5.2	5.5	6.3	9.4	-2.2	3.7
02/05/10	6.3	5.7	5.1	5.1	4.3	4.8	INV	4.1	3.7	6.0	7.9	9.4	10.9	11.1	11.7	11.7	11.4	10.9	10.3	9.8	9.0	8.7	8.0	8.8	11.7	3.7	8.0
02/06/10	8.7	8.9	8.8	8.6	8.6	8.5	9.2	8.7	9.4	9.9	12.4	13.7	14.8	15.8	15.5	15.7	15.6	15.1	14.2	14.0	13.1	13.8	12.8	12.7	15.8	8.5	12.0
02/07/10	12.8	12.7	11.9	12.1	11.4	11.7	11.1	11.2	11.6	12.5	13.3	14.7	16.3	16.6	17.2	17.7	17.6	16.7	15.3	14.5	13.7	12.6	11.6	11.7	17.7	11.1	13.7
02/08/10	12.9	12.7	11.7	12.8	12.6	12.5	12.1	12.1	12.3	13.3	13.8	14.0	14.1	14.6	15.4	15.7	15.4	14.7	13.8	12.2	11.4	11.1	10.2	9.5	15.7	9.5	12.9
02/09/10	8.9	9.8	9.6	9.3	8.8	8.8	8.1	7.7	8.0	8.8	9.5	10.1	11.2	12.6	13.3	14.0	14.3	14.0	13.1	12.4	11.5	10.9	10.6	10.1	14.3	7.7	10.6
02/10/10	9.8	9.2	8.6	8.1	7.4	7.2	6.9	6.5	6.8	7.6	8.1	9.1	10.2	11.8	13.0	13.5	13.9	13.5	12.8	11.9	12.6	10.8	10.3	10.1	13.9	6.5	10.0
02/11/10	8.6	9.1	9.0	8.9	9.0	9.9	9.6	8.3	8.7	10.9	12.8	14.2	15.6	16.7	17.3	17.9	18.5	18.5	17.4	15.6	15.1	16.1	15.8	15.6	18.5	8.3	13.3
02/12/10	13.3	12.2	12.0	12.3	12.3	12.6	13.5	13.3	13.9	14.8	15.9	17.4	18.7	19.5	20.3	20.6	20.8	20.5	19.5	19.0	17.4	17.2	16.9	17.3	20.8	12.0	16.3
02/13/10	16.8	16.2	16.2	15.3	15.7	16.1	16.0	15.6	16.1	17.6	18.2	19.3	21.0	22.0	22.7	23.3	23.3	21.9	20.6	19.7	18.5	18.0	17.7	17.3	23.3	15.3	18.5
02/14/10	17.0	16.7	16.3	15.4	15.8	15.7	16.0	16.6	16.9	16.6	19.0	20.7	21.6	22.1	22.4	22.3	22.1	21.5	20.5	19.7	18.4	17.1	17.1	16.3	22.4	15.4	18.5
02/15/10	16.2	15.7	15.4	15.3	14.9	14.4	14.3	14.5	15.6	17.5	19.5	20.7	21.5	22.3	22.8	23.1	22.5	21.5	20.5	19.4	18.4	17.7	16.7	17.8	23.1	14.3	18.2
02/16/10	16.7	16.8	16.0	15.2	13.7	13.4	13.4	13.4	13.1	14.9	16.3	17.7	18.7	18.9	19.1	18.9	18.4	18.3	18.1	17.7	17.3	17.3	16.8	16.5	19.1	13.1	16.5
02/17/10	15.9	15.4	14.8	13.5	12.6	12.3	12.0	12.2	12.3	12.3	12.4	13.2	14.1	15.2	15.9	16.6	16.6	16.3	15.6	15.1	14.8	14.4	14.7	13.5	16.6	12.0	14.2
02/18/10	13.9	13.5	12.6	12.2	11.5	INV	INV	INV	11.9	13.4	15.0	16.9	17.7	18.1	17.3	16.6	16.5	16.2	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/19/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/20/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	8.8	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/21/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	6.2	7.4	INV	10.0	11.0	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/22/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	11.6	13.0	13.4	13.6	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/23/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	11.1	12.1	12.7	13.6	13.7	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/24/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	9.1	9.7	INV	11.4	11.6	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/25/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	12.3	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/26/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/27/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	3.2	INV	5.6	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/28/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
Hourly Averages	10.2	10.0	9.5	9.2	8.8	9.6	11.8	11.1	8.5	9.5	10.8	12.1	12.9	13.4	14.6	14.5	15.0	14.5	13.4	12.6	11.8	11.3	11.0	10.7			

Maximum Hourly Temperature: 23.3 **Minimum Hourly Temperature:** -6.2 **Average Monthly Temperature:** 11.5

Maximum 24-Hour Mean: 18.5 **Minimum 24-Hour Mean:** -1.8

Total Number of Observations: 428 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

FEBRUARY 2011

2-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
02/01/10	INV	INV	INV	INV	INV	INV	INV	INV	5.0	6.5	7.8	8.9	9.0	10.2	10.9	10.9	10.7	10.9	9.9	8.8	7.2	5.7	4.9	3.3	INV	INV	INV
02/02/10	1.8	0.9	0.0	-0.8	-1.5	-2.2	INV	INV	-3.5	-3.1	-2.5	-1.4	-1.0	-0.1	0.4	0.3	0.1	-0.9	-2.1	-2.8	-3.2	-3.4	-3.7	-4.0	1.8	-4.0	-1.5
02/03/10	-4.4	-4.9	-5.5	-5.3	-5.6	INV	INV	INV	-5.9	-4.9	-3.4	-1.2	-0.2	2.2	3.5	4.6	4.9	4.2	1.6	0.6	0.1	-0.5	0.0	-1.3	4.9	-5.9	-1.0
02/04/10	-1.6	-1.7	-2.0	-2.7	-1.9	-2.2	INV	INV	-1.6	0.7	3.5	5.6	7.5	8.7	10.0	10.1	9.2	8.2	6.5	5.8	4.7	4.3	4.4	5.3	10.1	-2.7	3.7
02/05/10	5.6	4.7	4.1	4.1	3.4	3.5	INV	3.3	3.4	6.5	8.4	10.0	11.6	11.8	12.3	12.3	11.9	11.1	10.3	9.3	7.8	7.7	7.0	7.6	12.3	3.3	7.7
02/06/10	7.9	7.6	7.3	7.5	7.0	7.2	7.8	7.7	8.6	10.1	12.8	14.1	15.4	16.6	16.2	16.2	16.0	15.2	13.7	12.4	11.9	13.3	12.0	12.1	16.6	7.0	11.5
02/07/10	12.5	12.3	11.5	11.7	10.9	11.3	10.9	10.9	11.5	13.0	14.1	15.5	17.1	17.4	18.1	18.5	18.1	16.9	15.2	13.6	12.2	11.5	10.6	10.4	18.5	10.4	13.6
02/08/10	10.7	10.7	10.5	11.6	11.7	11.2	10.7	11.4	12.0	13.6	14.3	14.7	15.0	15.5	16.4	16.3	15.9	14.8	13.5	11.8	10.6	9.8	9.4	9.0	16.4	9.0	12.5
02/09/10	8.6	9.5	9.3	9.0	8.6	8.6	7.9	7.5	8.1	9.4	10.5	11.3	12.5	13.8	14.3	14.6	14.8	14.2	13.0	12.3	11.3	10.7	10.3	9.9	14.8	7.5	10.8
02/10/10	9.6	9.0	8.4	7.9	7.2	7.0	6.7	6.3	7.0	8.3	9.1	10.4	11.7	13.3	13.9	14.2	14.3	13.7	12.6	11.6	12.3	10.3	9.9	9.5	14.3	6.3	10.2
02/11/10	7.9	8.5	8.7	8.4	8.2	9.4	9.2	7.7	8.5	11.4	13.6	15.1	16.4	17.8	18.1	18.5	18.9	18.4	16.8	14.9	14.5	15.5	15.2	15.0	18.9	7.7	13.2
02/12/10	12.9	11.4	11.5	11.8	11.9	12.1	12.8	12.8	13.8	15.2	16.7	18.6	20.2	20.6	21.3	21.4	21.2	20.4	19.2	18.7	15.9	16.0	16.0	16.8	21.4	11.4	16.2
02/13/10	15.9	15.5	15.2	14.2	14.4	15.7	15.6	15.1	16.1	18.0	18.7	19.9	22.0	22.9	23.6	24.0	23.7	22.0	20.2	18.3	17.2	16.9	16.2	15.8	24.0	14.2	18.2
02/14/10	15.4	15.1	14.6	13.7	14.0	14.5	15.2	15.8	16.6	17.0	20.0	21.9	22.9	23.4	23.3	23.0	22.6	21.5	20.2	18.1	17.0	15.6	15.5	14.5	23.4	13.7	18.0
02/15/10	14.4	13.9	13.8	13.2	12.7	12.2	12.8	13.7	15.3	18.2	20.2	21.6	22.6	23.6	23.6	23.7	23.0	21.6	20.2	18.1	17.0	15.9	15.1	15.5	23.7	12.2	17.6
02/16/10	15.1	14.9	14.2	13.4	12.5	12.3	11.8	11.9	12.7	15.4	16.9	18.5	19.9	19.8	19.9	19.5	18.7	18.4	18.1	17.6	17.1	17.1	16.7	16.0	19.9	11.8	16.2
02/17/10	14.9	14.7	14.4	13.3	12.3	12.0	11.3	12.0	12.3	12.5	12.8	13.9	15.1	16.2	16.7	17.6	17.6	16.8	15.6	14.8	14.5	14.0	14.0	12.8	17.6	11.3	14.2
02/18/10	13.3	12.7	11.6	11.1	10.3	INV	INV	INV	11.7	13.4	15.4	17.6	18.6	18.6	17.4	16.7	16.5	16.2	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/19/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/20/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	9.3	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/21/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	6.7	7.9	INV	10.5	11.6	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/22/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	12.1	14.1	14.7	14.2	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/23/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	11.6	12.6	13.3	14.7	15.1	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/24/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	9.7	10.6	INV	12.4	12.5	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/25/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	13.5	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/26/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/27/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	3.6	INV	5.9	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/28/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
Hourly Averages	9.4	9.1	8.7	8.4	8.0	8.8	11.1	10.5	8.4	10.0	11.5	13.0	13.9	14.3	15.4	15.2	15.4	14.6	13.2	12.0	11.1	10.6	10.2	9.9			

Maximum Hourly Temperature: 24.0 **Minimum Hourly Temperature:** -5.9 **Average Monthly Temperature:** 11.3

Maximum 24-Hour Mean: 18.2 **Minimum 24-Hour Mean:** -1.5

Total Number of Observations: 428 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

FEBRUARY 2011

DIFFERENTIAL TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
02/01/10	INV	INV	INV	INV	INV	INV	INV	INV	0.072	-0.483	-0.614	-0.650	-0.702	-0.861	-0.851	-0.657	-0.382	-0.226	-0.005	0.072	0.089	0.129	0.058	0.041	INV	INV	INV
02/02/10	0.034	0.011	0.030	0.043	0.029	0.030	INV	INV	-0.370	-0.709	-0.910	-1.218	-1.189	-1.053	-0.887	-0.695	-0.602	-0.308	-0.079	-0.042	-0.017	-0.001	0.015	0.021	0.043	-1.218	-0.358
02/03/10	0.040	0.061	0.076	0.124	0.060	INV	INV	INV	-0.244	-0.512	-0.762	-1.336	-0.838	-0.954	-0.729	-0.652	-0.422	-0.205	-0.100	0.282	0.273	0.390	0.229	0.419	0.419	-1.336	-0.229
02/04/10	0.264	0.657	0.505	0.568	0.448	0.348	INV	INV	-0.162	-0.447	-0.655	-0.813	-0.884	-0.833	-0.699	-0.742	-0.643	-0.298	0.086	0.048	0.393	0.874	1.154	0.995	1.154	-0.884	0.007
02/05/10	0.698	0.966	1.073	0.956	0.944	1.244	INV	0.832	0.285	-0.431	-0.591	-0.691	-0.698	-0.649	-0.657	-0.588	-0.482	-0.152	0.048	0.512	1.190	0.961	0.947	1.195	1.244	-0.698	0.301
02/06/10	0.801	1.322	1.574	1.069	1.556	1.313	1.407	1.018	0.760	-0.177	-0.485	-0.437	-0.544	-0.826	-0.679	-0.563	-0.398	-0.056	0.550	1.541	1.144	0.462	0.744	0.659	1.574	-0.826	0.490
02/07/10	0.363	0.397	0.346	0.378	0.479	0.373	0.257	0.289	0.026	-0.447	-0.761	-0.770	-0.798	-0.837	-0.850	-0.813	-0.537	-0.147	0.095	0.832	1.547	1.088	0.928	1.274	1.547	-0.850	0.113
02/08/10	2.190	1.917	1.171	1.121	0.869	1.235	1.394	0.709	0.248	-0.271	-0.507	-0.695	-0.848	-0.975	-1.010	-0.627	-0.425	-0.063	0.250	0.404	0.781	1.272	0.805	0.465	2.190	-1.010	0.392
02/09/10	0.309	0.303	0.232	0.244	0.254	0.215	0.153	0.156	-0.020	-0.545	-0.993	-1.276	-1.288	-1.164	-1.019	-0.641	-0.452	-0.146	0.123	0.154	0.188	0.231	0.245	0.223	0.309	-1.288	-0.188
02/10/10	0.187	0.210	0.191	0.163	0.171	0.191	0.192	0.158	-0.115	-0.709	-0.992	-1.328	-1.467	-1.439	-0.939	-0.743	-0.467	-0.155	0.195	0.337	0.334	0.428	0.415	0.635	0.635	-1.467	-0.189
02/11/10	0.710	0.610	0.308	0.503	0.771	0.450	0.472	0.600	0.219	-0.528	-0.805	-0.937	-0.798	-1.111	-0.792	-0.590	-0.327	0.070	0.664	0.730	0.622	0.636	0.624	0.526	0.771	-1.111	0.109
02/12/10	0.374	0.790	0.491	0.433	0.442	0.517	0.657	0.508	0.103	-0.457	-0.831	-1.144	-1.457	-1.124	-1.031	-0.823	-0.429	0.041	0.304	0.311	1.523	1.237	0.913	0.498	1.523	-1.457	0.077
02/13/10	0.809	0.704	1.000	1.151	1.245	0.480	0.371	0.457	0.037	-0.419	-0.508	-0.638	-1.001	-0.856	-0.892	-0.692	-0.428	-0.067	0.434	1.362	1.312	1.057	1.560	1.445	1.560	-1.001	0.330
02/14/10	1.590	1.611	1.738	1.670	1.885	1.187	0.865	0.785	0.274	-0.429	-1.017	-1.196	-1.296	-1.264	-0.852	-0.696	-0.525	-0.096	0.281	1.587	1.396	1.536	1.679	1.818	1.885	-1.296	0.522
02/15/10	1.886	1.752	1.603	2.028	2.149	2.214	1.453	0.817	0.297	-0.725	-0.776	-0.926	-1.079	-1.287	-0.826	-0.614	-0.494	-0.182	0.283	1.273	1.402	1.756	1.525	2.288	2.288	-1.287	0.659
02/16/10	1.572	1.868	1.783	1.790	1.157	1.153	1.516	1.541	0.499	-0.462	-0.628	-0.785	-1.180	-0.954	-0.790	-0.573	-0.365	-0.189	0.027	0.105	0.181	0.159	0.135	0.481	1.868	-1.180	0.335
02/17/10	0.949	0.610	0.441	0.283	0.338	0.279	0.699	0.203	-0.055	-0.224	-0.313	-0.702	-0.939	-0.988	-0.747	-1.028	-0.930	-0.513	-0.003	0.290	0.294	0.470	0.771	0.672	0.949	-1.028	-0.006
02/18/10	0.638	0.777	0.997	1.106	1.198	INV	INV	INV	0.202	-0.014	-0.385	-0.710	-0.938	-0.540	-0.085	-0.053	-0.058	0.061	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/19/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/20/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	-0.537	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/21/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	-0.474	-0.528	INV	-0.519	-0.596	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/22/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	-0.528	-1.045	-1.290	-0.648	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/23/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	-0.521	-0.558	-0.646	-1.061	-1.429	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/24/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	-0.638	-0.912	INV	-0.983	-0.884	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/25/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	-1.247	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/26/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/27/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	-0.391	INV	-0.297	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/28/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
Hourly Averages	0.789	0.857	0.798	0.802	0.823	0.749	0.786	0.621	0.114	-0.449	-0.697	-0.898	-0.971	-0.946	-0.801	-0.636	-0.465	-0.146	0.185	0.576	0.744	0.746	0.750	0.803			

Maximum Hourly Differential Temperature: 2.288 **Minimum Hourly Differential Temperature:** -1.467

Total Number of Observations: 428 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

MARCH 2011

10-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
03/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	22.7	22.2	21.3	20.5	19.5	18.9	18.6	20.5	INV	INV	INV
03/10/11	19.1	19.2	17.9	17.5	17.7	18.0	19.4	19.5	19.4	20.0	20.9	22.3	23.3	25.0	25.7	26.3	26.4	25.9	24.8	23.2	22.2	21.4	19.5	19.4	26.4	17.5	21.4
03/11/11	20.1	17.6	19.2	19.2	19.1	18.4	17.8	17.6	20.0	21.2	22.3	23.4	24.1	24.6	24.9	25.1	24.7	24.0	23.1	22.5	21.0	20.5	19.4	19.7	25.1	17.6	21.2
03/12/11	19.4	18.8	18.9	18.2	17.8	16.3	16.8	16.2	17.4	19.8	21.2	21.9	22.6	22.9	23.4	23.7	23.7	23.1	22.3	21.6	20.6	19.9	18.5	18.8	23.7	16.2	20.2
03/13/11	18.0	17.6	17.2	16.7	16.5	15.7	15.1	15.8	17.0	19.3	20.5	21.8	22.6	23.4	23.8	24.1	24.0	23.5	22.5	21.7	21.3	20.6	19.0	18.6	24.1	15.1	19.9
03/14/11	18.6	18.6	18.0	17.7	18.4	17.2	16.8	16.4	17.8	20.0	21.4	22.2	23.1	23.6	23.2	23.6	23.5	23.0	21.9	21.0	20.4	19.7	18.5	18.9	23.6	16.4	20.1
03/15/11	18.8	18.4	18.6	17.4	17.1	17.1	16.7	17.1	19.1	20.8	22.1	22.7	22.6	22.9	23.4	23.8	23.6	23.2	22.4	21.8	21.2	19.8	19.7	18.8	23.8	16.7	20.4
03/16/11	19.4	18.9	18.8	18.1	17.9	17.9	17.9	18.8	19.6	21.0	22.4	23.5	24.3	24.8	25.3	25.6	25.8	25.6	24.8	23.6	23.3	23.0	22.2	20.6	25.8	17.9	21.8
03/17/11	21.1	21.0	20.3	19.7	19.1	19.2	18.3	19.2	20.3	21.9	23.5	24.2	25.3	26.2	26.9	26.5	26.8	26.4	24.8	23.2	22.0	21.4	20.9	20.4	26.9	18.3	22.4
03/18/11	19.6	19.0	17.8	18.0	18.0	17.6	17.7	18.3	19.5	20.9	22.3	23.1	24.0	25.0	25.5	25.4	25.3	24.8	24.2	22.7	21.9	20.6	19.6	19.4	25.5	17.6	21.3
03/19/11	18.5	18.2	17.6	16.1	15.7	15.5	13.6	14.3	15.4	17.5	19.0	20.1	19.9	20.3	20.8	20.9	20.6	20.0	19.1	18.1	17.4	16.8	16.0	15.3	20.9	13.6	17.8
03/20/11	14.5	14.3	13.7	14.9	14.9	15.5	15.1	15.0	16.0	18.3	19.8	21.2	21.9	22.5	22.2	21.5	21.8	21.6	21.0	20.3	19.4	19.7	18.9	18.2	22.5	13.7	18.4
03/21/11	17.7	17.9	17.5	17.4	17.5	16.8	16.0	15.4	15.6	16.0	16.4	15.3	14.1	12.9	12.0	9.6	8.8	7.2	6.9	6.8	7.4	7.9	7.7	7.5	17.9	6.8	12.8
03/22/11	7.9	7.7	7.5	7.3	7.3	7.3	7.0	6.9	7.6	8.8	INV	INV	12.1	12.8	13.3	13.5	13.4	13.2	12.7	12.0	11.6	11.0	9.6	9.7	13.5	6.9	10.0
03/23/11	10.1	8.9	9.1	9.3	9.2	9.1	9.1	9.2	10.3	12.6	14.3	16.0	17.2	18.5	19.3	19.9	19.7	18.9	17.8	16.3	15.6	15.0	14.1	13.8	19.9	8.9	13.9
03/24/11	13.6	13.5	13.2	13.1	12.7	11.8	11.1	10.9	11.3	12.3	13.4	14.6	15.2	15.8	16.4	16.6	16.6	16.6	16.0	15.3	14.7	13.2	13.1	12.3	16.6	10.9	13.9
03/25/11	12.2	11.8	11.5	10.9	10.8	10.1	11.0	10.4	12.0	13.3	14.3	14.6	15.0	15.6	16.3	16.8	16.9	16.4	15.1	13.9	13.2	13.1	13.1	13.0	16.9	10.1	13.4
03/26/11	12.9	12.0	11.8	10.9	11.0	11.3	11.3	11.6	12.7	14.1	15.1	16.3	17.1	18.0	18.1	18.5	18.4	18.2	17.7	16.6	15.5	14.6	13.9	13.1	18.5	10.9	14.6
03/27/11	12.8	12.4	11.8	11.3	11.3	10.6	10.2	11.1	12.7	14.1	15.2	16.1	17.2	17.5	17.8	18.4	18.6	18.6	18.2	17.4	17.3	15.7	15.2	15.0	18.6	10.2	14.9
03/28/11	14.9	14.7	14.4	14.0	13.5	12.9	13.3	13.7	15.5	17.2	18.3	19.1	20.0	20.8	21.4	21.7	21.7	21.4	20.5	19.3	19.2	18.9	17.5	17.0	21.7	12.9	17.5
03/29/11	16.6	16.8	16.7	16.4	16.0	15.4	15.7	15.4	17.5	19.5	20.5	21.2	22.3	23.2	23.8	24.0	24.0	23.4	22.2	21.4	21.0	20.6	19.9	19.7	24.0	15.4	19.7
03/30/11	19.3	18.7	17.7	17.3	16.1	16.1	15.7	15.7	17.9	19.4	21.0	22.1	22.9	23.4	24.0	24.2	24.2	24.3	23.7	22.5	22.2	21.9	20.7	21.0	24.3	15.7	20.5
03/31/11	21.3	20.4	20.3	19.8	19.8	19.2	19.4	19.5	20.8	22.8	24.3	25.7	26.0	26.9	27.7	28.3	27.9	27.6	27.1	26.0	25.0	24.5	24.4	24.0	28.3	19.2	23.7
Hourly Averages	16.7	16.2	15.9	15.5	15.3	15.0	14.8	14.9	16.2	17.8	19.4	20.4	20.6	21.2	21.6	21.7	21.7	21.3	20.4	19.5	18.8	18.2	17.4	17.2			

Maximum Hourly Temperature: 28.3 **Minimum Hourly Temperature:** 6.8 **Average Monthly Temperature:** 18.2

Maximum 24-Hour Mean: 23.7 **Minimum 24-Hour Mean:** 10.0

Total Number of Observations: 534 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

MARCH 2011

2-METER TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
03/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	23.4	22.6	21.2	19.6	17.8	17.5	17.9	19.9	INV	INV	INV
03/10/11	18.6	18.7	17.4	16.5	17.2	17.6	18.9	19.1	19.5	20.4	21.4	22.9	24.1	26.1	26.6	27.2	27.0	26.2	24.5	21.6	19.6	19.2	18.1	17.7	27.2	16.5	21.1
03/11/11	17.9	16.2	17.8	17.9	18.1	17.5	16.5	16.9	20.5	22.2	23.1	24.3	25.0	25.4	25.8	26.2	25.4	24.3	23.0	22.3	20.0	18.9	18.4	18.0	26.2	16.2	20.9
03/12/11	18.1	17.4	16.9	16.3	15.8	14.9	15.3	15.1	17.6	20.6	22.6	23.2	24.2	23.7	24.4	24.9	24.5	23.6	22.3	21.5	19.9	18.8	17.3	17.6	24.9	14.9	19.9
03/13/11	17.0	16.4	16.0	15.0	14.9	14.3	14.0	14.8	17.2	19.9	21.2	22.8	23.4	24.5	24.6	24.9	24.8	23.9	22.5	21.5	20.2	19.4	18.2	17.7	24.9	14.0	19.5
03/14/11	17.2	17.0	16.7	16.3	16.3	15.6	15.3	15.3	18.2	21.0	22.3	23.0	24.2	24.5	23.8	24.4	24.2	23.4	21.7	20.0	19.0	18.5	17.6	17.7	24.5	15.3	19.7
03/15/11	17.7	16.9	17.4	16.7	16.0	16.0	15.9	16.5	19.7	21.6	23.1	23.7	23.3	23.8	24.3	24.3	24.1	23.5	22.3	21.1	20.1	18.8	18.4	17.9	24.3	15.9	20.1
03/16/11	17.9	17.4	17.2	16.6	16.6	16.4	17.2	18.5	20.3	21.8	23.5	24.8	25.2	25.8	26.3	26.7	26.6	26.1	24.6	23.0	21.3	20.8	20.5	19.2	26.7	16.4	21.4
03/17/11	19.3	18.9	18.4	17.7	18.2	18.5	17.7	19.0	21.0	22.7	24.7	25.7	26.8	28.0	28.6	27.4	27.5	26.8	24.7	22.8	21.6	20.3	19.3	19.0	28.6	17.7	22.3
03/18/11	18.3	17.7	16.7	17.4	17.3	17.0	17.2	18.1	20.3	21.8	23.9	24.8	25.5	26.7	27.0	26.6	26.2	25.3	24.2	22.3	21.3	19.8	18.6	18.1	27.0	16.7	21.3
03/19/11	17.5	17.7	17.0	15.1	14.4	14.0	12.9	13.7	15.7	18.5	20.2	21.2	20.8	21.3	21.8	21.7	21.2	20.3	19.1	17.6	15.9	15.0	14.4	14.0	21.8	12.9	17.5
03/20/11	13.3	13.5	12.6	14.3	14.2	15.1	14.8	14.9	16.5	19.1	20.9	22.5	23.3	23.5	22.8	21.9	22.2	21.8	20.7	19.7	18.8	19.0	18.5	18.0	23.5	12.6	18.4
03/21/11	17.1	17.8	17.4	17.3	17.4	16.6	15.9	15.5	15.8	16.3	16.6	15.6	14.4	13.3	12.3	9.8	9.1	7.5	7.1	7.0	7.5	8.0	7.8	7.5	17.8	7.0	12.9
03/22/11	8.0	7.8	7.6	7.4	7.4	7.5	7.2	7.0	8.1	9.5	INV	INV	13.3	13.7	14.1	14.2	14.1	13.6	12.8	11.9	11.0	10.3	9.1	8.9	14.2	7.0	10.2
03/23/11	9.2	8.4	8.3	8.6	8.7	8.5	8.5	8.9	10.4	13.1	15.1	17.2	18.5	20.1	20.6	20.9	20.5	19.3	17.8	16.2	15.0	14.5	13.4	12.4	20.9	8.3	13.9
03/24/11	11.6	12.2	12.1	11.2	12.1	11.2	10.5	10.9	11.8	13.1	14.2	15.4	16.1	16.8	17.5	17.5	17.6	17.2	16.2	15.3	14.4	12.9	12.3	11.4	17.6	10.5	13.8
03/25/11	10.8	10.8	10.5	9.9	9.8	9.0	9.3	9.8	12.6	13.8	15.1	15.5	16.1	16.6	17.4	18.1	17.8	17.0	15.2	13.8	13.1	12.5	12.1	11.8	18.1	9.0	13.3
03/26/11	11.8	11.3	11.0	10.4	10.6	11.0	11.0	11.6	13.3	15.0	16.0	17.5	18.2	19.4	19.3	19.7	19.6	18.9	17.9	16.6	15.4	14.5	13.7	12.9	19.7	10.4	14.8
03/27/11	12.4	11.7	11.5	10.8	10.8	9.7	9.6	11.2	13.4	15.4	17.0	17.6	18.5	18.6	18.8	19.4	19.5	19.2	18.4	17.4	16.9	15.3	14.6	14.3	19.5	9.6	15.1
03/28/11	14.1	13.2	12.9	12.9	12.3	11.9	12.4	13.3	16.2	17.8	19.0	20.1	20.9	21.6	22.3	22.7	22.6	21.9	20.5	19.3	19.1	18.7	16.7	16.2	22.7	11.9	17.4
03/29/11	15.9	16.2	15.4	15.0	14.7	14.7	14.6	15.0	17.9	20.6	21.6	22.7	23.9	24.4	25.0	24.9	24.7	23.8	22.3	21.4	20.8	19.4	18.9	18.0	25.0	14.6	19.6
03/30/11	18.0	16.9	16.3	15.8	14.9	14.6	14.4	15.2	18.4	20.0	21.7	23.0	23.9	24.3	24.9	25.2	25.1	24.8	23.7	22.3	21.3	21.0	19.9	20.1	25.2	14.4	20.2
03/31/11	20.1	19.1	18.8	18.7	19.0	18.2	18.6	19.3	21.3	23.5	25.2	26.8	27.0	28.1	28.8	29.2	28.7	28.0	27.1	25.8	23.5	23.2	22.7	22.8	29.2	18.2	23.5
Hourly Averages	15.5	15.1	14.8	14.4	14.4	14.1	14.0	14.5	16.6	18.5	20.4	21.4	21.7	22.3	22.6	22.6	22.4	21.7	20.4	19.1	18.0	17.2	16.4	16.1			

Maximum Hourly Temperature: 29.2 **Minimum Hourly Temperature:** 7.0 **Average Monthly Temperature:** 18.0

Maximum 24-Hour Mean: 23.5 **Minimum 24-Hour Mean:** 10.2

Total Number of Observations: 534 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

MARCH 2011

DIFFERENTIAL TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
03/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	-0.724	-0.435	0.120	0.973	1.728	1.434	0.748	0.591	INV	INV	INV
03/10/11	0.518	0.462	0.546	0.962	0.551	0.419	0.515	0.398	-0.053	-0.372	-0.523	-0.612	-0.836	-1.146	-0.963	-0.939	-0.639	-0.282	0.261	1.573	2.617	2.187	1.470	1.726	2.617	-1.146	0.327
03/11/11	2.284	1.403	1.377	1.309	0.957	0.852	1.304	0.725	-0.503	-0.996	-0.778	-0.855	-0.928	-0.867	-0.850	-1.039	-0.680	-0.333	0.100	0.184	1.015	1.546	0.990	1.753	2.284	-1.039	0.332
03/12/11	1.329	1.472	2.092	1.880	1.931	1.369	1.445	1.130	-0.251	-0.730	-1.405	-1.351	-1.647	-0.843	-0.971	-1.210	-0.810	-0.464	-0.051	0.121	0.728	1.125	1.280	1.192	2.092	-1.647	0.307
03/13/11	0.972	1.277	1.226	1.677	1.589	1.385	1.123	0.971	-0.181	-0.571	-0.665	-0.963	-0.721	-1.015	-0.836	-0.779	-0.713	-0.398	-0.064	0.228	1.149	1.140	0.785	0.972	1.677	-1.015	0.316
03/14/11	1.385	1.601	1.281	1.366	2.035	1.615	1.456	1.147	-0.465	-0.925	-0.846	-0.743	-1.066	-0.855	-0.596	-0.797	-0.676	-0.412	0.124	1.010	1.336	1.188	0.890	1.192	2.035	-1.066	0.427
03/15/11	1.065	1.521	1.205	0.673	1.045	1.154	0.772	0.651	-0.581	-0.841	-1.021	-0.994	-0.696	-0.842	-0.871	-0.505	-0.584	-0.362	0.105	0.729	1.094	1.047	1.280	0.938	1.521	-1.021	0.249
03/16/11	1.524	1.553	1.591	1.492	1.317	1.478	0.725	0.284	-0.665	-0.852	-1.113	-1.352	-0.934	-1.059	-1.062	-1.072	-0.823	-0.416	0.154	0.547	2.038	2.201	1.698	1.425	2.201	-1.352	0.362
03/17/11	1.812	2.113	1.898	2.045	0.864	0.764	0.643	0.223	-0.636	-0.834	-1.270	-1.476	-1.516	-1.781	-1.701	-0.911	-0.757	-0.364	0.152	0.394	0.403	1.053	1.591	1.400	2.113	-1.781	0.171
03/18/11	1.289	1.240	1.115	0.594	0.697	0.565	0.496	0.220	-0.758	-0.927	-1.583	-1.737	-1.522	-1.784	-1.566	-1.198	-0.877	-0.439	-0.058	0.457	0.694	0.737	1.037	1.301	1.301	-1.784	-0.084
03/19/11	0.996	0.508	0.509	1.027	1.321	1.510	0.738	0.557	-0.348	-0.970	-1.171	-1.054	-0.923	-0.962	-0.971	-0.786	-0.533	-0.266	0.020	0.455	1.500	1.768	1.585	1.255	1.768	-1.171	0.240
03/20/11	1.261	0.809	1.014	0.600	0.742	0.390	0.301	0.087	-0.494	-0.834	-1.072	-1.293	-1.383	-0.991	-0.624	-0.412	-0.445	-0.214	0.311	0.660	0.557	0.709	0.449	0.259	1.261	-1.383	0.016
03/21/11	0.652	0.114	0.121	0.111	0.102	0.204	0.096	-0.039	-0.254	-0.271	-0.255	-0.241	-0.357	-0.382	-0.276	-0.202	-0.268	-0.264	-0.231	-0.170	-0.117	-0.048	-0.122	-0.058	0.652	-0.382	-0.090
03/22/11	-0.019	-0.086	-0.138	-0.102	-0.113	-0.122	-0.140	-0.105	-0.453	-0.622	INV	INV	-1.250	-0.877	-0.862	-0.767	-0.700	-0.439	-0.107	0.054	0.556	0.636	0.490	0.803	0.803	-1.250	-0.198
03/23/11	0.947	0.522	0.740	0.689	0.434	0.595	0.628	0.292	-0.131	-0.546	-0.761	-1.271	-1.295	-1.607	-1.303	-1.027	-0.802	-0.439	-0.031	0.112	0.654	0.477	0.716	1.340	1.340	-1.607	-0.044
03/24/11	2.029	1.330	1.119	1.848	0.664	0.666	0.515	-0.015	-0.527	-0.759	-0.780	-0.770	-0.909	-1.070	-1.109	-0.892	-0.997	-0.625	-0.227	0.012	0.339	0.287	0.741	0.905	2.029	-1.109	0.074
03/25/11	1.362	1.058	1.008	1.031	1.041	1.060	1.730	0.615	-0.548	-0.580	-0.739	-0.938	-1.095	-0.973	-1.105	-1.314	-0.966	-0.525	-0.156	0.045	0.131	0.595	1.020	1.230	1.730	-1.314	0.124
03/26/11	1.029	0.679	0.844	0.524	0.354	0.328	0.288	-0.067	-0.616	-0.833	-0.871	-1.200	-1.093	-1.362	-1.215	-1.237	-1.142	-0.621	-0.138	0.018	0.065	0.170	0.177	0.232	1.029	-1.362	-0.237
03/27/11	0.430	0.686	0.277	0.496	0.497	0.902	0.614	-0.059	-0.709	-1.240	-1.803	-1.538	-1.233	-1.090	-1.000	-0.934	-0.904	-0.621	-0.204	0.045	0.395	0.382	0.664	0.674	0.902	-1.803	-0.220
03/28/11	0.821	1.481	1.507	1.068	1.158	1.083	0.863	0.370	-0.665	-0.596	-0.726	-0.958	-0.930	-0.816	-0.950	-0.971	-0.907	-0.506	-0.051	0.033	0.161	0.170	0.781	0.832	1.507	-0.971	0.094
03/29/11	0.712	0.606	1.379	1.453	1.243	0.772	1.124	0.389	-0.404	-1.060	-1.089	-1.426	-1.598	-1.243	-1.215	-0.883	-0.771	-0.388	-0.054	0.030	0.211	1.174	0.994	1.648	1.648	-1.598	0.067
03/30/11	1.305	1.814	1.420	1.408	1.218	1.442	1.320	0.466	-0.507	-0.629	-0.746	-0.849	-1.004	-0.893	-0.943	-0.941	-0.830	-0.522	0.008	0.198	0.877	0.872	0.779	0.899	1.814	-1.004	0.257
03/31/11	1.189	1.279	1.435	1.111	0.833	0.991	0.835	0.150	-0.454	-0.664	-0.922	-1.077	-1.013	-1.195	-1.014	-0.982	-0.778	-0.419	0.031	0.224	1.453	1.346	1.695	1.212	1.695	-1.195	0.219
Hourly Averages	1.131	1.066	1.071	1.057	0.931	0.883	0.791	0.381	-0.464	-0.757	-0.959	-1.081	-1.089	-1.075	-1.000	-0.900	-0.753	-0.424	0.001	0.345	0.851	0.965	0.945	1.031			

Maximum Hourly Differential Temperature: 2.617 **Minimum Hourly Differential Temperature:** -1.803

Total Number of Observations: 534 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-D

HOURLY TEMPERATURE DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JANUARY 2011

TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/10/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/11/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/12/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/13/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/14/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/15/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/16/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/17/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	19.7	19.2	17.8	16.3	15.2	13.7	13.5	13.6	12.6	INV	INV	INV
01/18/11	12.1	12.2	12.0	12.0	11.8	11.7	11.7	11.3	12.5	15.1	18.1	20.6	21.9	21.3	20.8	20.4	20.2	18.7	16.7	15.4	14.6	13.8	14.1	13.5	21.9	11.3	15.5
01/19/11	13.2	12.7	12.3	12.3	12.0	11.6	11.5	11.1	13.1	15.6	17.9	19.0	18.8	19.0	19.6	19.3	19.0	17.9	16.6	15.2	15.2	13.7	13.4	12.7	19.6	11.1	15.1
01/20/11	13.0	14.7	13.9	13.6	13.0	12.7	12.1	11.6	11.9	13.6	14.0	14.6	15.4	16.2	16.4	16.9	16.9	15.7	14.6	12.8	12.4	11.8	10.8	10.2	16.9	10.2	13.7
01/21/11	10.0	9.4	9.0	8.9	8.7	8.1	8.3	8.4	8.9	11.4	13.9	15.9	17.5	17.2	17.0	16.9	16.8	15.5	14.2	12.3	11.3	10.9	10.3	10.8	17.5	8.1	12.1
01/22/11	11.0	11.6	10.8	10.7	10.5	10.7	9.8	9.5	10.4	13.2	15.8	17.4	17.3	17.3	17.6	17.5	17.0	16.0	14.3	13.5	12.7	11.8	12.4	11.8	17.6	9.5	13.4
01/23/11	10.2	9.7	10.0	10.6	10.5	9.9	9.4	8.8	9.5	11.3	11.1	12.5	13.8	15.3	15.9	16.0	16.3	15.4	14.3	13.6	12.0	11.3	10.6	10.3	16.3	8.8	12.0
01/24/11	10.5	9.9	9.3	9.3	8.1	7.8	7.5	8.1	8.0	11.4	14.0	15.5	16.2	16.1	16.1	16.4	16.5	14.9	13.2	13.6	13.2	12.6	12.2	12.2	16.5	7.5	12.2
01/25/11	11.8	11.7	12.0	12.3	12.0	11.0	10.7	10.4	10.2	10.7	12.2	13.8	15.0	15.7	16.5	17.2	16.6	14.8	13.5	12.4	12.0	10.6	11.1	11.0	17.2	10.2	12.7
01/26/11	9.5	9.2	9.1	10.0	INV	INV	INV	INV	11.4	11.8	12.7	13.2	14.7	16.3	17.0	17.1	16.9	15.7	14.2	13.9	13.4	13.1	13.1	13.0	17.1	9.1	13.3
01/27/11	12.4	12.2	12.3	11.0	10.5	9.7	9.9	8.8	9.4	11.4	12.6	14.3	15.7	16.7	17.4	17.9	18.0	17.1	15.6	14.2	12.7	13.0	12.6	11.3	18.0	8.8	13.2
01/28/11	11.4	12.4	11.7	11.4	11.1	11.7	11.4	11.9	11.9	13.7	15.4	16.6	18.0	18.6	19.5	19.9	19.6	18.8	16.0	14.0	12.5	12.0	12.0	11.1	19.9	11.1	14.3
01/29/11	11.3	11.3	10.3	10.6	9.4	9.2	9.9	10.1	10.4	13.5	15.7	16.9	16.8	17.0	17.5	17.4	17.2	16.1	14.7	13.3	12.1	11.4	11.5	11.0	17.5	9.2	13.1
01/30/11	10.7	10.5	9.8	9.7	9.3	8.6	8.8	10.8	10.8	12.2	14.2	16.3	17.1	17.5	17.1	17.6	17.5	17.1	15.2	14.1	13.5	13.6	13.3	12.4	17.6	8.6	13.2
01/31/11	11.4	10.6	9.9	8.3	7.7	7.5	7.2	6.2	6.8	8.3	7.5	7.1	8.5	8.4	8.5	8.3	9.0	9.1	8.4	8.1	7.9	7.3	8.0	7.5	11.4	6.2	8.2
Hourly Averages	11.3	11.3	10.9	10.8	10.3	10.0	9.9	9.8	10.4	12.4	13.9	15.3	16.2	16.6	16.9	17.2	17.1	16.0	14.5	13.4	12.6	12.0	11.9	11.4			

Maximum Hourly Temperature: 21.9 **Minimum Hourly Temperature:** 6.2 **Average Monthly Temperature:** 13.0

Maximum 24-Hour Mean: 15.5 **Minimum 24-Hour Mean:** 8.2

Total Number of Observations: 341 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

FEBRUARY 2011

TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
02/01/10	INV	INV	INV	INV	INV	INV	INV	INV	4.8	7.3	8.0	8.5	8.6	9.7	10.3	10.4	10.3	10.5	9.4	8.4	6.8	5.3	4.5	2.9	INV	INV	INV
02/02/10	1.5	0.5	-0.4	-1.2	-1.9	-2.6	INV	INV	-3.9	-3.7	-3.1	-2.1	-1.4	-0.4	0.0	0.0	-0.3	-1.2	-2.5	-3.2	-3.6	-3.8	-4.1	-4.3	1.5	-4.3	-1.9
02/03/10	-4.7	-5.3	-5.9	-5.6	-6.0	INV	INV	INV	-5.2	-4.6	-3.3	-1.4	0.1	2.1	3.3	4.5	4.7	4.1	1.2	0.2	-0.4	-0.9	-0.3	-1.7	4.7	-6.0	-1.2
02/04/10	-2.0	-2.1	-2.4	-3.1	-2.4	-2.6	INV	INV	-1.1	2.5	4.4	6.0	7.4	9.1	10.3	9.9	9.2	8.1	6.1	5.4	4.3	3.9	4.1	4.9	10.3	-3.1	3.6
02/05/10	5.2	4.4	3.7	3.8	3.1	3.2	INV	2.9	3.4	7.1	8.7	10.7	11.7	11.5	12.2	12.1	11.8	10.9	9.8	8.9	7.1	7.0	6.5	7.0	12.2	2.9	7.5
02/06/10	7.2	7.0	6.8	7.0	6.4	6.8	7.3	7.1	8.0	10.4	12.9	14.0	15.2	16.2	15.9	16.1	15.9	15.0	13.3	12.1	11.6	13.0	11.7	11.7	16.2	6.4	11.2
02/07/10	12.1	11.9	11.1	11.4	10.6	10.9	10.5	10.5	11.1	12.9	13.9	15.5	16.9	17.5	18.2	18.7	18.0	16.7	14.7	13.2	11.9	11.1	10.2	10.0	18.7	10.0	13.3
02/08/10	10.3	10.4	10.2	11.2	11.3	10.8	10.3	11.0	11.8	13.3	13.8	14.1	14.4	15.0	15.9	15.8	15.4	14.4	13.1	11.4	10.1	9.5	8.9	8.7	15.9	8.7	12.1
02/09/10	8.1	9.1	8.9	8.7	8.2	8.2	7.5	7.1	7.6	8.8	9.8	10.5	11.7	13.2	13.9	14.6	15.1	14.0	12.5	11.9	10.9	10.3	10.0	9.5	15.1	7.1	10.4
02/10/10	9.2	8.6	8.0	7.5	6.8	6.6	6.3	5.9	6.5	7.7	8.4	9.5	10.8	12.6	13.6	14.1	14.3	13.6	12.3	11.2	11.9	9.9	9.6	9.0	14.3	5.9	9.7
02/11/10	7.5	8.2	8.3	8.0	7.9	9.0	8.9	7.4	8.3	11.1	13.4	14.7	16.4	17.3	17.6	18.2	19.0	18.5	16.5	14.6	14.2	15.2	14.9	14.7	19.0	7.4	12.9
02/12/10	12.5	11.0	11.0	11.4	11.5	11.7	12.4	12.5	13.4	14.8	16.1	17.9	19.4	20.3	21.2	21.2	21.2	20.3	18.9	18.3	15.6	15.5	15.5	16.3	21.2	11.0	15.8
02/13/10	15.6	15.1	14.8	13.8	14.0	15.3	15.2	14.7	15.7	17.7	18.6	19.8	21.8	22.8	23.8	24.2	23.8	21.6	19.7	18.0	16.8	16.4	15.9	15.4	24.2	13.8	17.9
02/14/10	15.0	14.7	14.2	13.3	13.7	14.2	14.9	15.6	16.4	17.1	20.1	22.2	22.7	23.3	22.9	22.8	22.4	21.5	19.8	18.0	16.7	15.2	15.0	14.0	23.3	13.3	17.7
02/15/10	14.0	13.5	13.4	12.9	12.4	11.8	12.5	13.4	15.0	18.0	20.6	21.9	22.4	23.5	23.9	23.6	22.6	21.5	19.8	17.7	16.6	15.5	14.7	15.2	23.9	11.8	17.3
02/16/10	14.7	14.7	13.8	13.0	12.2	11.8	11.5	11.4	12.9	16.5	17.5	18.8	19.6	19.4	19.4	19.0	18.3	18.1	17.6	17.2	16.6	16.7	16.3	15.6	19.6	11.4	15.9
02/17/10	14.5	14.3	13.9	12.9	11.8	11.6	10.9	11.5	11.9	12.2	12.6	13.9	15.1	16.0	16.5	17.4	17.4	16.6	15.1	14.4	14.0	13.5	13.6	12.5	17.4	10.9	13.9
02/18/10	12.9	12.3	11.2	10.7	9.9	INV	INV	INV	11.4	13.1	15.4	17.3	18.3	18.4	17.0	16.4	16.2	15.8	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/19/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/20/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	8.9	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/21/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	6.7	7.8	INV	10.4	11.7	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/22/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	12.4	13.9	14.4	14.0	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/23/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	11.6	12.9	13.0	14.2	14.4	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/24/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	10.0	10.3	INV	12.1	12.2	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/25/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	13.1	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/26/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/27/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	3.4	INV	5.7	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/28/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
Hourly Averages	9.0	8.7	8.3	8.0	7.6	8.4	10.7	10.1	8.2	10.0	11.5	12.8	13.6	14.0	15.2	15.0	15.3	14.4	12.8	11.6	10.7	10.2	9.8	9.5			

Maximum Hourly Temperature: 24.2 **Minimum Hourly Temperature:** -6.0 **Average Monthly Temperature:** 11.0

Maximum 24-Hour Mean: 17.9 **Minimum 24-Hour Mean:** -1.9

Total Number of Observations: 428 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

MARCH 2011

TEMPERATURE (°C)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
03/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	23.2	22.6	21.0	19.3	17.5	17.2	17.6	19.7	INV	INV	INV
03/10/11	18.3	18.5	17.1	16.3	16.9	17.3	18.7	18.8	19.1	19.9	20.9	22.5	23.8	25.8	26.5	27.2	27.2	26.3	24.4	21.5	19.3	18.9	17.8	17.4	27.2	16.3	20.8
03/11/11	17.7	16.0	17.7	17.7	17.9	17.3	16.3	16.6	20.1	22.2	23.3	24.1	24.7	25.0	25.3	25.7	25.0	24.1	22.7	22.0	19.7	18.7	18.1	17.7	25.7	16.0	20.6
03/12/11	17.8	17.0	16.6	16.2	15.6	14.7	15.1	15.0	18.2	20.8	22.4	22.9	23.9	23.2	23.9	24.4	24.1	23.3	22.1	21.1	19.6	18.6	16.9	17.3	24.4	14.7	19.6
03/13/11	16.6	16.2	15.7	14.8	14.6	14.1	13.7	14.5	17.6	20.8	21.4	22.7	23.1	24.1	24.3	24.6	24.5	23.7	22.3	21.1	19.9	19.2	17.9	17.4	24.6	13.7	19.4
03/14/11	16.9	16.8	16.5	16.1	16.0	15.5	15.1	15.1	18.4	21.0	22.2	22.8	24.0	24.1	23.3	24.1	23.8	23.2	21.4	19.7	18.7	18.3	17.3	17.4	24.1	15.1	19.5
03/15/11	17.5	16.6	17.1	16.4	15.8	15.6	15.6	16.2	19.2	21.5	23.2	23.3	22.9	23.5	24.1	24.0	23.8	23.3	22.1	20.7	19.8	18.5	18.1	17.5	24.1	15.6	19.9
03/16/11	17.7	17.2	16.9	16.3	16.4	16.1	17.0	18.3	20.1	22.1	23.6	24.6	24.6	25.2	25.7	26.2	26.3	25.8	24.4	22.7	21.0	20.6	20.2	18.9	26.3	16.1	21.1
03/17/11	19.1	18.6	18.2	17.4	17.9	18.3	17.5	18.7	20.4	22.3	24.5	25.2	26.2	27.5	28.0	26.9	27.0	26.4	24.4	22.5	21.2	20.0	19.1	18.7	28.0	17.4	21.9
03/18/11	18.0	17.4	16.5	17.2	17.1	16.8	17.0	17.8	19.8	21.5	23.5	24.2	24.9	26.1	26.5	26.1	25.7	24.9	24.0	22.0	20.9	19.5	18.3	17.8	26.5	16.5	21.0
03/19/11	17.1	17.3	16.7	14.8	14.1	13.7	12.6	13.8	16.6	18.7	20.0	20.7	20.3	20.7	21.2	21.1	20.7	19.9	18.7	17.3	15.6	14.7	14.2	13.7	21.2	12.6	17.3
03/20/11	13.0	13.1	12.4	14.0	13.9	14.8	14.5	14.5	16.0	18.5	20.1	21.7	22.8	23.0	22.3	21.6	22.3	21.5	20.4	19.3	18.5	18.7	18.1	17.6	23.0	12.4	18.0
03/21/11	16.7	17.4	17.0	17.0	17.0	16.3	15.5	15.0	15.3	15.8	16.1	15.1	13.9	12.8	11.8	9.4	8.6	7.0	6.7	6.6	7.2	7.7	7.5	7.3	17.4	6.6	12.5
03/22/11	7.7	7.6	7.3	7.1	7.2	7.2	6.9	6.8	8.1	10.1	12.1	12.5	13.2	13.3	13.7	13.8	13.8	13.6	12.6	11.5	10.7	10.0	8.8	8.6	13.8	6.8	10.2
03/23/11	8.9	8.1	8.0	8.4	8.5	8.2	8.2	8.7	10.2	13.1	15.1	16.9	18.0	19.6	20.5	20.7	20.1	19.1	17.5	15.8	14.7	14.3	13.1	12.2	20.7	8.0	13.7
03/24/11	11.3	12.0	11.8	11.0	11.8	10.9	10.3	10.7	11.8	13.3	14.5	15.4	15.6	16.3	17.0	17.1	17.3	17.1	15.9	14.9	14.1	12.5	12.1	11.0	17.3	10.3	13.6
03/25/11	10.5	10.5	10.3	9.6	9.5	8.8	9.1	9.8	13.0	14.2	14.8	15.0	15.5	16.0	16.7	17.5	17.4	16.6	14.8	13.5	12.7	12.2	11.8	11.5	17.5	8.8	13.0
03/26/11	11.6	11.0	10.7	10.2	10.3	10.8	10.8	11.3	13.2	15.2	16.0	17.2	17.9	18.9	18.7	19.1	19.0	18.6	17.5	16.2	15.0	14.0	13.3	12.6	19.1	10.2	14.5
03/27/11	12.1	11.4	11.2	10.5	10.4	9.5	9.3	10.8	13.1	14.9	16.5	17.3	18.0	18.1	18.5	19.3	19.5	19.1	18.1	17.0	16.5	14.9	14.2	14.0	19.5	9.3	14.8
03/28/11	13.8	12.9	12.6	12.7	12.1	11.6	12.1	13.3	16.4	18.2	19.1	20.0	20.7	21.3	21.9	22.1	22.2	21.6	20.2	18.9	18.7	18.4	16.4	15.9	22.2	11.6	17.2
03/29/11	15.6	15.9	15.2	14.8	14.6	14.3	14.3	14.7	17.6	20.2	21.3	22.3	23.6	24.3	24.5	24.4	24.3	23.4	21.9	21.0	20.4	19.1	18.6	17.8	24.5	14.3	19.3
03/30/11	17.6	16.7	16.1	15.6	14.6	14.3	14.1	15.2	19.1	20.5	21.7	22.6	23.4	23.9	24.4	24.6	24.6	24.6	23.3	21.9	21.0	20.6	19.5	19.7	24.6	14.1	20.0
03/31/11	19.8	18.9	18.6	18.5	18.7	18.0	18.4	19.3	21.5	23.5	25.2	26.6	26.5	27.8	28.5	28.7	28.2	27.8	26.8	25.4	23.3	22.9	22.3	22.6	28.7	18.0	23.2
Hourly Averages	15.2	14.9	14.5	14.2	14.1	13.8	13.7	14.3	16.6	18.6	19.9	20.7	21.3	21.8	22.1	22.2	22.1	21.5	20.1	18.8	17.6	16.9	16.1	15.8			

Maximum Hourly Temperature: 28.7 **Minimum Hourly Temperature:** 6.6 **Average Monthly Temperature:** 17.8

Maximum 24-Hour Mean: 23.2 **Minimum 24-Hour Mean:** 10.2

Total Number of Observations: 536 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-E

HOURLY RELATIVE HUMIDITY DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JANUARY 2011

RELATIVE HUMIDITY (%)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/10/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/11/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/12/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/13/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/14/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/15/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/16/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/17/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	22.8	43.3	INV	47.9	INV	INV	INV	INV
01/18/11	INV	INV	46.0	14.7	99.6	15.4	84.5	INV	97.4	INV	INV	INV	91.7	INV	INV	INV	INV	INV	25.8	INV	11.0	12.9	7.6	11.8	INV	INV	INV
01/19/11	INV	INV	20.3	2.1	INV	31.3	37.9	15.1	86.8	INV	98.9	77.1	INV	INV	INV	INV	INV	INV	INV	19.6	4.2	INV	INV	INV	INV	INV	INV
01/20/11	37.2	1.7	16.5	1.2	5.5	93.8	0.1	5.5	6.5	1.7	8.7	30.0	12.1	46.9	8.2	27.6	33.3	2.3	84.8	10.8	99.3	22.9	97.3	4.1	99.3	0.1	27.4
01/21/11	31.0	7.2	71.2	1.8	20.5	12.1	16.7	1.5	24.8	62.6	INV	21.7	INV	INV	INV	INV	INV	INV	INV	56.7	27.5	37.2	INV	INV	INV	INV	INV
01/22/11	3.4	12.9	36.3	21.0	12.6	33.1	5.4	44.3	99.2	88.7	79.5	INV	INV	INV	INV	INV	INV	INV	INV	39.8	62.1	24.3	INV	84.3	INV	INV	INV
01/23/11	INV	13.8	3.0	28.8	35.7	27.3	30.5	7.0	16.5	13.6	30.2	33.2	19.2	92.9	97.6	26.4	26.4	47.5	29.6	16.9	3.4	77.1	32.5	21.2	97.6	3.0	31.8
01/24/11	17.5	55.6	4.1	35.9	88.6	99.3	16.8	INV	INV	82.3	INV	98.9	INV	INV	INV	INV	INV	INV	26.0	60.8	14.0	5.8	24.4	32.8	INV	INV	INV
01/25/11	18.7	9.3	11.6	4.2	13.9	45.2	27.5	12.7	98.2	31.4	98.9	INV	70.2	62.2	INV	98.9	69.2	32.8	13.1	19.7	80.3	INV	24.6	87.8	98.9	4.2	44.3
01/26/11	18.9	INV	INV	94.5	INV	INV	INV	INV	28.8	2.5	28.3	13.3	35.3	22.2	INV	6.1	19.6	34.1	1.9	24.9	34.9	22.4	37.6	31.1	INV	INV	INV
01/27/11	6.5	5.9	31.7	38.1	77.4	99.4	82.2	21.9	96.7	1.2	2.3	1.5	9.0	3.5	9.1	32.3	10.0	75.9	21.7	20.7	13.1	18.8	INV	INV	99.4	1.2	30.9
01/28/11	16.7	0.6	5.4	98.2	32.3	12.5	0.7	2.5	37.8	86.0	98.9	0.4	90.6	6.6	INV	INV	INV	INV	68.9	INV	12.3	25.6	21.5	10.4	98.9	0.4	33.0
01/29/11	INV	14.4	37.2	65.8	74.8	19.1	3.4	2.6	18.1	69.7	97.9	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	56.3	19.7	35.9	INV	INV	INV
01/30/11	2.4	26.5	15.5	2.7	23.0	52.7	1.9	4.3	25.0	26.6	84.0	96.3	94.9	INV	INV	INV	INV	INV	33.8	82.8	95.9	99.1	INV	INV	INV	INV	INV
01/31/11	89.7	88.8	95.1	INV	1.6	69.4	5.5	29.7	95.3	98.0	96.9	96.4	97.8	97.6	97.0	86.9	98.4	98.8	19.0	25.8	99.0	19.6	23.8	20.7	99.0	1.6	67.4
Hourly Averages	24.2	21.5	30.3	31.5	40.4	47.0	24.1	13.4	56.2	47.0	65.9	46.9	57.9	47.4	53.0	46.4	42.8	48.5	32.5	33.4	42.9	35.2	33.7	34.0			

Maximum Hourly Humidity: 99.4 **Minimum Hourly Humidity:** 0.1

Total Number of Observations: 248 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

FEBRUARY 2011

RELATIVE HUMIDITY (%)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
02/01/10	INV	INV	INV	INV	INV	INV	INV	INV	51.7	80.8	98.1	97.3	98.2	INV	98.6	98.9	99.7	98.3	99.0	99.8	97.1	42.7	23.4	29.1	INV	INV	INV
02/02/10	7.1	42.6	7.0	36.2	37.0	33.8	INV	INV	4.3	34.7	28.0	55.3	35.8	4.4	33.2	0.1	21.4	15.0	34.8	8.4	34.0	27.1	17.6	24.0	55.3	0.1	24.6
02/03/10	10.0	25.5	79.3	37.2	83.5	INV	INV	INV	29.2	56.8	86.2	89.1	87.8	94.9	95.7	92.6	96.7	94.1	79.0	92.8	88.1	25.6	83.1	63.8	96.7	10.0	71.0
02/04/10	91.8	6.4	0.4	91.3	3.7	90.9	INV	INV	67.2	48.9	85.1	90.3	95.3	96.2	97.2	99.3	97.8	97.2	98.2	11.0	12.7	36.0	13.3	86.3	99.3	0.4	64.4
02/05/10	59.8	93.1	96.0	94.2	19.0	95.4	INV	97.1	97.3	97.6	93.0	93.8	99.4	99.6	INV	INV	99.6	INV	INV	29.6	20.6	83.7	19.9	93.6	99.6	19.0	78.0
02/06/10	40.9	43.3	98.5	36.6	78.6	21.6	94.4	7.5	99.4	94.2	69.6	24.7	50.9	INV	INV	INV	INV	INV	43.5	15.7	0.8	91.3	9.3	25.6	99.4	0.8	49.8
02/07/10	20.6	7.0	11.0	12.2	91.4	12.9	4.4	17.3	5.3	93.6	78.1	99.9	99.9	78.6	21.2	INV	INV	INV	74.5	47.5	16.5	95.5	39.3	13.6	99.9	4.4	44.8
02/08/10	1.7	20.3	32.6	57.3	17.9	10.8	3.8	97.7	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	10.7	11.1	24.6	40.4	95.3	INV	INV	INV
02/09/10	0.6	31.6	25.1	21.4	9.5	32.3	32.6	4.9	27.2	30.8	20.4	6.2	12.5	9.3	0.1	19.9	54.2	40.4	38.1	27.9	26.1	3.0	7.1	2.2	54.2	0.1	20.1
02/10/10	5.3	1.9	0.8	2.0	3.5	7.8	12.3	16.3	11.1	14.2	4.3	2.7	12.0	15.4	33.4	34.4	24.0	22.0	0.6	43.6	8.9	96.8	86.3	95.3	96.8	0.6	23.1
02/11/10	95.7	INV	INV	99.3	5.0	22.2	96.4	97.4	98.9	INV	79.3	31.5	33.9	3.1	10.3	0.6	10.0	7.0	5.7	18.5	17.2	26.7	24.2	40.8	99.3	0.6	39.2
02/12/10	INV	74.1	INV	98.2	96.7	49.5	4.3	18.3	12.1	3.7	12.9	5.2	20.0	23.4	3.8	12.6	9.0	21.0	22.2	89.0	21.9	20.1	INV	98.6	98.6	3.7	34.1
02/13/10	INV	77.2	INV	INV	INV	79.3	4.9	89.5	19.0	INV	1.9	79.3	36.2	6.7	INV	INV	INV	INV	INV	15.2	15.7	INV	INV	92.9	INV	INV	INV
02/14/10	9.1	INV	19.1	6.7	4.7	13.8	8.5	16.5	11.0	38.8	74.1	INV	95.5	76.3	INV	INV	INV	INV	INV	5.9	6.9	INV	20.1	INV	INV	INV	INV
02/15/10	16.3	28.3	31.9	87.4	7.0	18.9	13.6	14.4	14.3	12.3	67.4	INV	INV	INV	INV	INV	INV	INV	33.0	INV	14.6	INV	29.9	14.3	INV	INV	INV
02/16/10	INV	16.8	54.2	INV	29.6	20.5	7.4	49.5	23.5	93.0	INV	66.6	INV	INV	INV	INV	INV	INV	INV	98.3	68.2	INV	93.3	19.0	INV	INV	INV
02/17/10	33.4	9.1	INV	32.8	47.6	38.5	7.2	INV	INV	95.0	10.6	93.1	INV	INV	97.4	INV	INV	INV	45.9	7.2	11.9	2.1	16.3	27.7	INV	INV	INV
02/18/10	76.5	19.9	9.6	44.1	10.4	INV	INV	INV	1.1	97.2	INV	95.6	INV	INV	INV	INV	INV	27.4	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/19/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/20/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	94.0	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/21/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	97.6	56.4	INV	23.2	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/22/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	99.1	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/23/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	99.0	99.4	INV	INV	96.9	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/24/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	93.2	99.7	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/25/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	43.6	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/26/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/27/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	93.6	INV	14.9	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/28/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
Hourly Averages	33.5	33.1	35.8	50.5	34.1	36.5	24.1	43.9	35.8	64.0	58.0	66.4	59.6	53.7	49.1	41.5	56.9	46.9	47.9	38.8	27.8	44.2	34.9	51.4			

Maximum Hourly Humidity: 99.9 **Minimum Hourly Humidity:** 0.1

Total Number of Observations: 335 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

MARCH 2011

RELATIVE HUMIDITY (%)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
03/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/10/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/11/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/12/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/13/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/14/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/15/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/16/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/17/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/18/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/19/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/20/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/21/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/22/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/23/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/24/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/25/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/26/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/27/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/28/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/29/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/30/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/31/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
Hourly Averages	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV			

Maximum Hourly Humidity: INV **Minimum Hourly Humidity:** INV

Total Number of Observations: 0 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-F

HOURLY BAROMETRIC PRESSURE DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JANUARY 2011

BAROMETRIC PRESSURE (in Hg)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/10/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/11/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/12/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/13/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/14/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/15/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/16/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/17/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.01	26.89	26.88	26.89	26.89	26.90	26.90	26.91	26.91	INV	INV	INV
01/18/11	26.91	26.91	26.92	26.93	26.93	26.93	26.93	26.93	26.95	26.96	26.96	26.96	26.95	26.92	26.91	26.91	26.91	26.91	26.91	26.91	26.91	26.91	26.92	26.92	26.96	26.91	26.93
01/19/11	26.92	26.92	26.91	26.91	26.90	26.89	26.89	26.89	26.89	26.89	26.89	26.89	26.86	26.84	26.81	26.80	26.81	26.80	26.82	26.83	26.84	26.85	26.86	26.88	26.92	26.80	26.87
01/20/11	26.88	26.90	26.91	26.92	26.93	26.95	26.95	26.98	27.01	27.03	27.04	27.06	27.06	27.04	27.02	27.01	27.01	27.01	27.01	27.03	27.02	27.03	27.03	27.04	27.06	26.88	26.99
01/21/11	27.03	27.01	27.01	27.01	27.00	26.99	26.98	27.00	27.01	27.03	27.04	27.03	27.01	26.99	26.97	26.96	26.96	26.96	26.96	26.97	26.97	26.97	26.97	26.96	27.04	26.96	26.99
01/22/11	26.95	26.93	26.93	26.93	26.92	26.90	26.90	26.91	26.91	26.92	26.91	26.91	26.90	26.86	26.84	26.83	26.83	26.83	26.83	26.83	26.84	26.85	26.84	26.84	26.95	26.83	26.88
01/23/11	26.85	26.85	26.86	26.86	26.86	26.85	26.86	26.89	26.91	26.93	26.94	26.97	26.97	26.96	26.94	26.95	26.96	26.97	26.98	26.98	26.99	27.00	27.01	27.00	27.01	26.85	26.93
01/24/11	27.01	26.98	26.98	26.98	26.97	26.97	26.97	26.97	26.98	26.98	27.00	27.00	26.99	26.96	26.94	26.94	26.95	26.96	26.98	27.00	27.02	27.01	27.04	27.03	27.04	26.94	26.98
01/25/11	27.03	27.03	27.02	27.01	27.00	27.01	27.01	27.03	27.03	27.04	27.05	27.05	27.03	27.01	26.98	26.95	26.95	26.95	26.95	26.97	26.98	26.99	26.99	27.00	27.05	26.95	27.00
01/26/11	27.00	26.99	26.98	26.98	INV	INV	INV	INV	26.97	27.02	27.04	27.05	27.04	27.01	27.00	26.99	27.00	27.01	27.02	27.03	27.05	27.07	27.08	27.10	27.10	26.97	27.02
01/27/11	27.11	27.11	27.13	27.13	27.13	27.13	27.13	27.14	27.15	27.16	27.17	27.18	27.16	27.12	27.08	27.06	27.06	27.05	27.05	27.05	27.06	27.07	27.07	27.08	27.18	27.05	27.11
01/28/11	27.08	27.07	27.07	27.06	27.06	27.05	27.04	27.04	27.05	27.06	27.07	27.07	27.05	27.02	27.00	26.98	26.97	26.97	26.96	26.98	26.98	26.98	26.98	26.98	27.08	26.96	27.02
01/29/11	26.98	26.97	26.97	26.97	26.97	26.97	26.97	26.99	26.99	27.01	27.03	27.04	27.03	27.01	26.98	26.98	26.99	26.99	27.00	27.01	27.01	27.01	27.02	27.02	27.04	26.97	27.00
01/30/11	27.02	27.01	27.01	27.01	27.01	27.02	27.03	27.02	27.02	27.04	27.06	27.05	27.03	26.99	26.96	26.94	26.92	26.91	26.89	26.88	26.88	26.88	26.89	26.91	27.06	26.88	26.97
01/31/11	26.89	26.89	26.87	26.88	26.89	26.88	26.85	26.87	26.88	26.89	26.91	26.92	26.92	26.89	26.87	26.87	26.86	26.88	26.89	26.90	26.91	26.91	26.91	26.91	26.92	26.85	26.89
Hourly Averages	26.98	26.97	26.97	26.97	26.97	26.96	26.96	26.97	26.98	27.00	27.01	27.01	27.00	26.97	26.95	25.15	26.94	26.94	26.94	26.95	26.96	26.96	26.97	26.97			

Maximum Hourly Pressure: 27.18 **Minimum Hourly Pressure:** 26.80

Total Number of Observations: 341 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

FEBRUARY 2011

BAROMETRIC PRESSURE (in Hg)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
02/01/10	INV	INV	INV	INV	INV	INV	INV	INV	26.91	26.91	26.92	26.91	26.90	26.86	26.83	26.82	26.82	26.80	26.81	26.82	26.83	26.85	26.87	26.88	INV	INV	INV
02/02/10	26.91	26.92	26.94	26.96	26.96	26.97	INV	INV	27.00	27.07	27.11	27.12	27.13	27.12	27.11	27.11	27.11	27.12	27.15	27.16	27.16	27.16	27.20	27.22	27.22	26.91	27.08
02/03/10	27.22	27.21	27.22	27.21	27.21	INV	INV	INV	27.22	27.27	27.28	27.28	27.26	27.23	27.19	27.17	27.16	27.17	27.17	27.21	27.22	27.22	27.21	27.21	27.28	27.16	27.22
02/04/10	27.21	27.20	27.18	27.18	27.17	27.15	INV	INV	27.15	27.17	27.16	27.17	27.15	27.12	27.07	27.05	27.07	27.07	27.08	27.08	27.09	27.09	27.09	27.09	27.21	27.05	27.13
02/05/10	27.08	27.06	27.06	27.06	27.03	27.03	INV	27.02	27.00	27.01	27.03	27.00	26.98	26.94	26.91	26.91	26.89	26.89	26.91	26.90	26.91	26.91	26.93	26.95	27.08	26.89	26.97
02/06/10	26.95	26.95	26.95	26.95	26.96	26.96	26.97	26.99	27.02	27.03	27.06	27.07	27.06	27.04	27.03	27.03	27.04	27.04	27.07	27.09	27.11	27.12	27.13	27.15	27.15	26.95	27.03
02/07/10	27.16	27.15	27.16	27.15	27.13	27.13	27.13	27.13	27.13	27.13	27.14	27.13	27.09	27.05	27.01	26.98	26.96	26.95	26.94	26.93	26.90	26.90	26.89	26.88	27.16	26.88	27.05
02/08/10	26.86	26.85	26.83	26.80	26.77	26.75	26.74	26.74	26.74	26.76	26.77	26.78	26.79	26.76	26.74	26.73	26.74	26.75	26.77	26.79	26.82	26.83	26.85	26.87	26.87	26.73	26.78
02/09/10	26.89	26.90	26.92	26.92	26.94	26.95	26.97	27.00	27.00	27.03	27.04	27.06	27.04	27.02	26.99	26.97	26.96	26.96	26.95	26.96	26.97	26.97	26.97	26.98	27.06	26.89	26.97
02/10/10	26.98	26.98	26.98	26.97	26.96	26.97	26.97	26.98	26.99	27.01	27.02	27.02	27.02	27.00	26.97	26.96	26.95	26.94	26.95	26.97	26.97	26.98	26.99	27.00	27.02	26.94	26.98
02/11/10	26.99	26.99	26.99	26.99	27.00	27.00	27.01	27.05	27.07	27.10	27.11	27.13	27.13	27.11	27.10	27.09	27.09	27.09	27.10	27.12	27.15	27.16	27.16	27.18	27.18	26.99	27.08
02/12/10	27.20	27.20	27.20	27.20	27.20	27.20	27.21	27.22	27.24	27.25	27.25	27.24	27.23	27.21	27.18	27.17	27.16	27.15	27.15	27.15	27.16	27.16	27.16	27.15	27.25	27.15	27.19
02/13/10	27.14	27.12	27.12	27.10	27.09	27.08	27.09	27.09	27.11	27.10	27.11	27.13	27.11	27.08	27.04	27.03	27.01	27.02	27.04	27.04	27.05	27.05	27.06	27.08	27.14	27.01	27.08
02/14/10	27.08	27.07	27.07	27.07	27.06	27.07	27.07	27.08	27.09	27.11	27.12	27.12	27.11	27.09	27.06	27.05	27.04	27.05	27.06	27.06	27.07	27.07	27.07	27.07	27.12	27.04	27.08
02/15/10	27.07	27.07	27.07	27.06	27.06	27.05	27.05	27.06	27.06	27.07	27.06	27.06	27.05	27.02	26.99	26.98	26.96	26.96	26.95	26.96	26.96	26.95	26.96	26.96	27.07	26.95	27.02
02/16/10	26.94	26.94	26.95	26.94	26.93	26.93	26.93	26.93	26.95	26.97	26.98	26.98	26.96	26.93	26.91	26.89	26.89	26.88	26.87	26.88	26.88	26.89	26.89	26.90	26.98	26.87	26.92
02/17/10	26.89	26.90	26.89	26.90	26.89	26.89	26.91	26.92	26.95	26.96	26.99	27.00	27.00	26.98	26.95	26.93	26.93	26.92	26.93	26.94	26.93	26.94	26.94	26.95	27.00	26.89	26.93
02/18/10	26.95	26.95	26.95	26.95	26.94	INV	INV	INV	26.95	27.00	27.01	27.01	26.99	26.99	26.97	26.98	26.99	26.99	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/19/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/20/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	26.99	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/21/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	26.87	26.91	INV	17.72	26.88	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/22/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	26.86	26.95	26.94	26.92	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/23/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	26.91	26.92	26.92	26.91	26.90	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/24/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	26.87	17.72	INV	27.07	27.04	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/25/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	27.04	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/26/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/27/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	26.99	INV	26.95	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/28/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
Hourly Averages	27.03	27.03	27.03	27.02	27.02	27.01	27.00	27.02	27.03	27.04	27.03	26.61	26.62	27.01	27.00	26.99	26.99	26.99	26.99	27.00	27.01	27.01	27.02	27.03			

Maximum Hourly Pressure: 27.28 **Minimum Hourly Pressure:** 26.73

Total Number of Observations: 428 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

MARCH 2011

BAROMETRIC PRESSURE (in Hg)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
03/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.01	27.11	27.12	27.13	27.13	27.13	27.14	27.14	INV	INV	INV
03/10/11	27.14	27.14	27.13	27.12	27.11	27.11	27.11	27.10	27.11	27.13	27.12	27.12	27.11	27.09	27.05	27.03	27.01	27.00	26.99	26.99	27.00	27.01	27.02	27.01	27.14	26.99	27.07
03/11/11	27.00	26.99	26.99	26.97	26.96	26.96	26.96	26.97	26.98	26.99	27.00	27.00	26.99	26.97	26.95	26.93	26.92	26.92	26.93	26.93	26.94	26.95	26.95	26.95	27.00	26.92	26.96
03/12/11	26.95	26.96	26.96	26.95	26.95	26.94	26.95	26.96	26.98	26.99	27.00	27.00	26.99	26.97	26.95	26.94	26.93	26.93	26.93	26.93	26.94	26.96	26.97	26.99	27.00	26.93	26.96
03/13/11	26.99	26.99	26.99	26.99	26.99	27.00	27.01	27.02	27.03	27.06	27.07	27.07	27.06	27.04	27.02	27.00	27.00	27.00	27.01	27.04	27.05	27.05	27.06	27.07	27.07	26.99	27.03
03/14/11	27.07	27.06	27.06	27.04	27.05	27.04	27.05	27.05	27.07	27.07	27.08	27.08	27.07	27.04	27.02	27.00	26.99	26.98	26.99	27.00	27.01	27.01	27.01	27.02	27.08	26.98	27.04
03/15/11	27.02	27.02	27.01	26.98	26.97	26.99	26.98	26.99	27.00	27.00	27.01	27.00	27.00	26.99	26.96	26.94	26.94	26.94	26.95	26.96	26.96	26.98	26.99	27.01	27.02	26.94	26.98
03/16/11	27.01	27.00	27.00	26.99	26.98	26.99	26.99	26.99	27.01	27.02	27.03	27.02	27.01	27.00	26.98	26.96	26.95	26.94	26.94	26.95	26.97	26.98	26.99	26.99	27.03	26.94	26.99
03/17/11	26.99	26.99	26.99	26.98	26.97	26.97	26.98	26.99	27.01	27.02	27.01	27.02	27.01	26.99	26.96	26.95	26.93	26.92	26.92	26.94	26.96	26.97	26.99	26.99	27.02	26.92	26.98
03/18/11	26.99	27.00	27.00	27.00	27.00	27.01	27.02	27.03	27.04	27.06	27.06	27.06	27.05	27.02	26.99	26.97	26.95	26.94	26.93	26.93	26.94	26.95	26.96	26.95	27.06	26.93	26.99
03/19/11	26.96	26.97	26.96	26.95	26.93	26.94	26.95	26.97	26.98	26.99	27.00	26.99	26.98	26.96	26.94	26.93	26.93	26.93	26.93	26.93	26.94	26.94	26.94	26.96	27.00	26.93	26.95
03/20/11	26.96	26.95	26.95	26.93	26.93	26.92	26.91	26.92	26.93	26.92	26.92	26.93	26.91	26.88	26.86	26.84	26.83	26.81	26.79	26.78	26.79	26.80	26.81	26.81	26.96	26.78	26.88
03/21/11	26.83	26.82	26.81	26.80	26.78	26.78	26.80	26.82	26.83	26.83	26.85	26.86	26.87	26.86	26.86	26.86	26.84	26.87	26.87	26.89	26.90	26.90	26.91	26.92	26.92	26.78	26.85
03/22/11	26.93	26.94	26.94	26.93	26.93	26.96	26.97	26.99	27.01	27.03	27.02	27.03	27.01	26.99	26.97	26.96	26.96	26.95	26.96	26.97	26.98	26.98	26.98	26.98	27.03	26.93	26.97
03/23/11	26.97	26.96	26.96	26.96	26.95	26.95	26.96	26.95	26.93	26.95	26.97	26.95	26.93	26.91	26.88	26.84	26.82	26.82	26.81	26.82	26.83	26.83	26.83	26.84	26.97	26.81	26.90
03/24/11	26.85	26.86	26.85	26.85	26.85	26.87	26.88	26.92	26.94	26.95	26.96	26.97	26.95	26.94	26.92	26.90	26.90	26.90	26.90	26.89	26.89	26.89	26.90	26.91	26.97	26.85	26.90
03/25/11	26.91	26.90	26.90	26.89	26.87	26.88	26.89	26.90	26.92	26.92	26.92	26.93	26.92	26.91	26.89	26.87	26.86	26.85	26.85	26.86	26.88	26.89	26.89	26.89	26.93	26.85	26.89
03/26/11	26.90	26.89	26.89	26.87	26.86	26.85	26.86	26.87	26.87	26.87	26.87	26.87	26.85	26.83	26.81	26.80	26.79	26.78	26.78	26.78	26.79	26.80	26.81	26.81	26.90	26.78	26.84
03/27/11	26.82	26.83	26.83	26.84	26.84	26.85	26.86	26.88	26.90	26.90	26.90	26.91	26.90	26.88	26.88	26.86	26.85	26.84	26.84	26.83	26.84	26.84	26.85	26.86	26.91	26.82	26.86
03/28/11	26.86	26.87	26.87	26.87	26.86	26.87	26.87	26.89	26.90	26.90	26.90	26.91	26.89	26.87	26.85	26.83	26.82	26.82	26.82	26.83	26.84	26.86	26.87	26.88	26.91	26.82	26.86
03/29/11	26.88	26.87	26.88	26.88	26.89	26.90	26.91	26.93	26.94	26.96	26.97	26.98	26.96	26.95	26.92	26.90	26.89	26.89	26.89	26.91	26.93	26.94	26.94	26.95	26.98	26.87	26.92
03/30/11	26.95	26.95	26.94	26.93	26.94	26.94	26.94	26.96	26.98	26.99	27.00	27.00	26.99	26.97	26.95	26.93	26.92	26.91	26.92	26.93	26.95	26.97	26.98	26.98	27.00	26.91	26.95
03/31/11	26.98	26.97	26.95	26.95	26.94	26.94	26.95	26.96	26.97	26.98	26.98	26.97	26.95	26.93	26.90	26.88	26.85	26.85	26.85	26.86	26.88	26.89	26.89	26.89	26.98	26.85	26.92
Hourly Averages	26.95	26.95	26.95	26.94	26.93	26.94	26.95	26.96	26.97	26.98	26.98	26.99	26.97	26.95	26.93	26.91	25.73	26.91	26.91	26.92	26.93	26.94	26.94	26.95			

Maximum Hourly Pressure: 27.14 **Minimum Hourly Pressure:** 26.78

Total Number of Observations: 536 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-G

HOURLY SOLAR RADIATION DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JANUARY 2011

SOLAR RADIATION (W/m^2)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/10/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/11/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/12/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/13/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/14/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/15/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/16/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/17/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	378.8	230.2	39.0	0.2	0.0	0.0	0.0	0.0	0.0	378.8	0.2	162.1
01/18/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	69.6	316.8	469.0	573.5	622.5	608.5	535.7	405.3	232.1	42.0	0.3	0.0	0.0	0.0	0.0	0.0	622.5	0.3	323.2
01/19/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	67.5	307.3	465.7	568.0	449.0	580.7	525.9	383.4	222.8	39.1	0.6	0.0	0.0	0.0	0.0	0.0	580.7	0.6	301.1
01/20/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	72.4	325.5	481.5	588.1	637.7	627.3	557.1	429.2	248.5	22.4	0.4	0.0	0.0	0.0	0.0	0.0	637.7	0.4	332.8
01/21/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	74.6	336.3	487.7	589.7	637.1	625.2	552.9	424.0	247.4	50.7	0.4	0.0	0.0	0.0	0.0	0.0	637.1	0.4	335.8
01/22/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	74.5	328.1	479.3	583.8	632.2	619.3	550.2	423.9	247.0	49.9	0.5	0.0	0.0	0.0	0.0	0.0	632.2	0.5	332.7
01/23/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	79.7	345.7	508.0	612.3	657.4	641.8	568.8	440.0	259.4	54.3	0.5	0.0	0.0	0.0	0.0	0.0	657.4	0.5	347.6
01/24/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	83.7	347.7	502.1	608.7	659.3	648.2	578.3	448.1	236.3	48.1	0.8	0.0	0.0	0.0	0.0	0.0	659.3	0.8	347.1
01/25/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	63.2	224.1	425.0	621.5	662.2	658.6	582.2	407.5	175.1	36.3	0.4	0.0	0.0	0.0	0.0	0.0	662.2	0.4	321.7
01/26/11	0.0	0.0	0.0	0.0	INV	INV	INV	INV	187.6	350.2	511.3	620.6	665.2	646.7	574.5	446.9	265.2	72.0	0.7	0.0	0.0	0.0	0.0	0.0	665.2	0.7	394.6
01/27/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	87.9	359.8	519.0	623.4	671.3	661.4	591.2	460.2	272.6	77.1	0.9	0.0	0.0	0.0	0.0	0.0	671.3	0.9	360.8
01/28/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	90.5	363.1	520.7	628.7	679.0	667.8	596.4	468.7	279.5	82.6	0.9	0.0	0.0	0.0	0.0	0.0	679.0	0.9	365.2
01/29/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	89.7	356.7	509.5	615.3	666.4	657.3	587.9	459.4	271.8	80.1	1.0	0.0	0.0	0.0	0.0	0.0	666.4	1.0	358.3
01/30/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	84.9	304.8	515.9	622.5	656.1	493.3	566.0	435.3	246.4	76.6	0.6	0.0	0.0	0.0	0.0	0.0	656.1	0.6	334.2
01/31/11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	97.9	176.4	105.5	256.7	398.7	273.1	149.6	244.6	179.6	109.5	1.4	0.0	0.0	0.0	0.0	0.0	398.7	1.4	166.6
Hourly Averages	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	87.4	317.3	464.3	579.5	621.0	600.7	536.9	417.0	240.9	58.6	0.6	0.0	0.0	0.0	0.0	0.0			

Maximum Hourly Radiation: 679.0 **Minimum Hourly Radiation:** 0.2 **Average Monthly Radiation:** 318.9

Maximum 24-Hour Mean: 394.6 **Minimum 24-Hour Mean:** 162.1

Total Number of Observations: 341 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

Note: All Statisitcs Based on Daylight Hours

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

FEBRUARY 2011

SOLAR RADIATION (W/m^2)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
02/01/10	INV	INV	INV	INV	INV	INV	INV	INV	134.7	364.5	431.6	529.0	575.7	643.6	627.2	451.4	214.2	100.4	1.5	0.0	0.0	0.0	0.0	0.0	643.6	0.0	339.5
02/02/10	0.0	0.0	0.0	0.0	0.0	0.0	INV	INV	212.6	398.1	574.1	697.2	755.3	743.0	663.1	523.3	306.0	107.3	1.7	0.0	0.0	0.0	0.0	0.0	755.3	0.0	383.2
02/03/10	0.0	0.0	0.0	0.0	0.0	INV	INV	INV	205.5	397.0	575.7	697.3	753.6	740.9	665.7	525.6	309.0	112.4	1.7	0.0	0.0	0.0	0.0	0.0	753.6	0.0	415.4
02/04/10	0.0	0.0	0.0	0.0	0.0	0.0	INV	INV	190.1	397.1	565.1	676.7	725.4	707.1	634.1	504.7	300.9	108.1	1.9	0.0	0.0	0.0	0.0	0.0	725.4	0.0	370.1
02/05/10	0.0	0.0	0.0	0.0	0.0	0.0	INV	13.4	120.9	362.2	449.1	625.7	640.6	526.1	587.1	446.7	286.7	68.8	1.2	0.0	0.0	0.0	0.0	0.0	640.6	0.0	294.9
02/06/10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	101.7	301.6	442.3	577.6	631.6	626.2	572.6	441.1	267.5	100.8	3.2	0.0	0.0	0.0	0.0	0.0	631.6	0.0	272.0
02/07/10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	110.8	383.6	540.6	649.1	699.0	689.8	620.6	492.9	296.2	114.2	2.6	0.0	0.0	0.0	0.0	0.0	699.0	0.0	307.0
02/08/10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	117.8	384.6	545.2	650.6	698.8	684.1	613.6	481.6	289.8	89.1	2.8	0.0	0.0	0.0	0.0	0.0	698.8	0.0	304.3
02/09/10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	130.8	416.2	589.5	706.3	755.1	738.1	662.6	525.9	344.9	129.6	3.9	0.0	0.0	0.0	0.0	0.0	755.1	0.0	334.1
02/10/10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	136.4	424.8	597.2	713.5	763.7	742.2	665.5	529.9	355.8	131.2	4.7	0.0	0.0	0.0	0.0	0.0	763.7	0.0	338.2
02/11/10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	138.6	426.7	588.0	697.1	745.9	734.9	649.8	517.2	344.7	131.5	5.6	0.0	0.0	0.0	0.0	0.0	745.9	0.0	332.5
02/12/10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	137.2	409.4	569.2	677.6	727.2	715.2	644.0	514.2	346.2	136.0	6.2	0.0	0.0	0.0	0.0	0.0	727.2	0.0	325.9
02/13/10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	138.7	410.8	564.5	674.5	729.1	604.0	596.9	513.5	274.3	101.4	2.9	0.0	0.0	0.0	0.0	0.0	729.1	0.0	307.8
02/14/10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	140.5	399.1	552.6	660.2	712.1	701.4	632.5	506.2	343.5	137.6	6.7	0.0	0.0	0.0	0.0	0.0	712.1	0.0	320.0
02/15/10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	150.3	412.6	567.9	677.1	731.3	729.6	641.9	493.0	285.4	136.7	7.1	0.0	0.0	0.0	0.0	0.0	731.3	0.0	322.8
02/16/10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	148.5	388.8	543.7	653.6	706.3	704.6	486.1	293.7	140.1	63.3	1.9	0.0	0.0	0.0	0.0	0.0	706.3	0.0	275.9
02/17/10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	53.4	99.5	131.9	396.9	523.1	522.1	540.9	465.9	317.5	133.1	5.1	0.0	0.0	0.0	0.0	0.0	540.9	0.0	213.0
02/18/10	0.0	0.0	0.0	0.0	0.0	INV	INV	INV	137.7	180.3	283.9	336.6	339.7	180.5	91.2	76.7	68.4	24.4	INV	INV	INV	INV	INV	INV	339.7	24.4	171.9
02/19/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/20/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	774.5	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/21/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	553.3	629.9	INV	766.1	741.6	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/22/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	588.7	703.3	756.3	743.4	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/23/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	509.7	591.0	699.2	754.4	745.8	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/24/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	683.9	835.0	INV	852.0	728.5	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/25/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	637.4	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/26/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/27/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	906.0	INV	687.0	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
02/28/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
Hourly Averages	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	139.2	381.0	532.3	644.5	693.9	683.6	596.0	473.2	282.8	107.0	3.6	0.0	0.0	0.0	0.0	0.0			

Maximum Hourly Radiation: 763.7 **Minimum Hourly Radiation:** 0.0 **Average Monthly Radiation:** 312.7

Maximum 24-Hour Mean: 415.4 **Minimum 24-Hour Mean:** 171.9

Total Number of Observations: 428 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

Note: All Statisitcs Based on Daylight Hours

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

MARCH 2011

SOLAR RADIATION (W/m^2)

Day	Hour 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Min	Avg
03/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
03/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	410.5	199.3	25.8	0.0	0.0	0.0	0.0	0.0	410.5	25.8	211.9
03/10/11	0.0	0.0	0.0	0.0	0.0	0.0	1.3	60.1	214.0	404.5	516.7	546.6	670.7	698.8	701.5	576.6	433.0	201.9	34.2	0.0	0.0	0.0	0.0	0.0	701.5	1.3	389.2
03/11/11	0.0	0.0	0.0	0.0	0.0	0.0	1.4	49.3	298.0	511.2	675.5	788.3	837.0	827.0	747.6	617.1	434.7	206.3	26.6	0.0	0.0	0.0	0.0	0.0	837.0	1.4	463.1
03/12/11	0.0	0.0	0.0	0.0	0.0	0.0	1.0	51.6	291.1	462.9	688.4	783.0	776.6	725.7	718.7	610.2	409.1	206.5	31.0	0.0	0.0	0.0	0.0	0.0	783.0	1.0	442.8
03/13/11	0.0	0.0	0.0	0.0	0.0	0.0	1.5	55.7	303.7	509.9	671.0	781.9	831.0	818.0	738.6	606.6	429.9	204.5	34.6	0.0	0.0	0.0	0.0	0.0	831.0	1.5	460.5
03/14/11	0.0	0.0	0.0	0.0	0.0	0.0	1.6	57.9	307.1	519.7	637.4	758.8	837.0	562.1	421.0	582.0	433.2	216.6	17.5	0.0	0.0	0.0	0.0	0.0	837.0	1.6	411.7
03/15/11	0.0	0.0	0.0	0.0	0.0	0.0	1.6	63.7	310.1	526.0	673.4	741.4	633.4	746.8	585.1	314.5	387.0	163.6	37.8	0.0	0.0	0.0	0.0	0.0	746.8	1.6	398.8
03/16/11	0.0	0.0	0.0	0.0	0.0	0.0	2.1	66.5	315.7	519.0	687.2	804.0	842.0	826.0	743.5	606.3	448.2	221.0	31.2	0.0	0.0	0.0	0.0	0.0	842.0	2.1	470.2
03/17/11	0.0	0.0	0.0	0.0	0.0	0.0	1.9	54.0	295.4	497.1	611.7	709.0	825.0	779.9	698.8	518.4	397.0	202.0	32.4	0.0	0.0	0.0	0.0	0.0	825.0	1.9	432.5
03/18/11	0.0	0.0	0.0	0.0	0.0	0.0	3.7	72.6	334.0	530.8	696.8	806.0	853.0	839.0	752.2	608.1	417.1	129.4	27.5	0.0	0.0	0.0	0.0	0.0	853.0	3.7	466.9
03/19/11	0.0	0.0	0.0	0.0	0.0	0.0	4.3	81.0	325.4	535.1	696.4	817.0	868.0	853.0	756.8	549.7	330.2	133.9	18.0	0.0	0.0	0.0	0.0	0.0	868.0	4.3	459.1
03/20/11	0.0	0.0	0.0	0.0	0.0	0.0	7.7	109.7	361.8	500.9	684.1	744.3	687.3	466.1	368.1	255.0	305.8	113.5	21.5	0.0	0.0	0.0	0.0	0.0	744.3	7.7	355.8
03/21/11	0.0	0.0	0.0	0.0	0.0	0.0	2.0	44.9	123.1	95.5	123.6	146.2	272.9	143.8	131.2	48.0	26.5	24.7	12.7	0.0	0.0	0.0	0.0	0.0	272.9	2.0	91.9
03/22/11	0.0	0.0	0.0	0.0	0.0	0.0	2.6	40.6	296.4	566.2	758.7	844.0	934.0	720.4	776.2	641.0	498.6	232.0	43.5	0.1	0.0	0.0	0.0	0.0	934.0	2.6	488.8
03/23/11	0.0	0.0	0.0	0.0	0.0	0.0	4.4	99.0	385.6	577.9	732.5	842.0	869.0	866.0	781.3	644.9	511.1	237.2	44.6	0.1	0.0	0.0	0.0	0.0	869.0	4.4	507.3
03/24/11	0.0	0.0	0.0	0.0	0.0	0.0	7.1	122.9	367.6	564.9	722.3	829.0	877.0	860.0	773.6	635.8	493.0	231.2	44.2	0.1	0.0	0.0	0.0	0.0	877.0	7.1	502.2
03/25/11	0.0	0.0	0.0	0.0	0.0	0.0	7.1	106.7	365.0	555.3	686.4	779.0	853.0	854.0	760.1	613.0	472.8	224.2	43.1	0.1	0.0	0.0	0.0	0.0	854.0	7.1	486.1
03/26/11	0.0	0.0	0.0	0.0	0.0	0.0	6.1	107.9	368.2	560.1	719.7	819.0	868.0	844.0	757.2	620.3	473.8	219.3	40.5	0.1	0.0	0.0	0.0	0.0	868.0	6.1	492.6
03/27/11	0.0	0.0	0.0	0.0	0.0	0.0	6.9	116.5	377.2	574.8	733.8	837.0	879.0	861.0	776.5	641.3	503.4	237.7	48.6	0.1	0.0	0.0	0.0	0.0	879.0	6.9	507.2
03/28/11	0.0	0.0	0.0	0.0	0.0	0.0	6.9	119.5	374.9	573.0	727.6	831.0	875.0	855.0	771.3	636.5	504.3	238.5	49.9	0.2	0.0	0.0	0.0	0.0	875.0	6.9	504.9
03/29/11	0.0	0.0	0.0	0.0	0.0	0.0	7.3	125.3	382.8	578.8	736.6	844.0	883.0	870.0	759.3	624.1	446.1	160.2	20.8	0.1	0.0	0.0	0.0	0.0	883.0	7.3	495.3
03/30/11	0.0	0.0	0.0	0.0	0.0	0.0	7.1	127.7	389.0	576.9	738.1	841.0	886.0	869.0	748.6	630.7	498.0	250.5	56.3	0.2	0.0	0.0	0.0	0.0	886.0	7.1	509.1
03/31/11	0.0	0.0	0.0	0.0	0.0	0.0	6.5	128.8	394.8	590.6	748.8	851.0	890.0	870.0	781.8	646.6	505.8	249.3	49.4	0.2	0.0	0.0	0.0	0.0	890.0	6.5	516.4
Hourly Averages	0.0	0.0	0.0	0.0	0.0	0.0	4.2	84.6	326.4	515.1	666.7	761.1	806.7	761.6	684.0	555.8	424.7	195.8	34.4	0.1	0.0	0.0	0.0	0.0			

Maximum Hourly Radiation: 934.0 **Minimum Hourly Radiation:** 1.0 **Average Monthly Radiation:** 437.6

Maximum 24-Hour Mean: 516.4 **Minimum 24-Hour Mean:** 91.9

Total Number of Observations: 536 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

Note: All Statisitcs Based on Daylight Hours

APPENDIX KC2-H

HOURLY EVAPORATION DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JANUARY 2011

EVAPORATION (inches)

Day	Hour 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 Evaporation
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/10/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/11/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/12/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/13/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/14/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/15/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/16/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV
01/17/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.015	0.022	0.007	0.020	0.007	0.004	0.005	0.005	0.085
01/18/11	0.005	0.005	0.002	0.002	0.003	0.005	0.000	0.005	0.013	0.001	0.004	0.007	0.003	0.013	0.015	0.018	0.015	0.020	0.006	0.007	0.005	0.007	0.005	0.003	0.169
01/19/11	0.005	0.003	0.005	0.003	0.003	0.002	0.003	0.002	0.006	0.001	0.009	0.001	0.008	0.011	0.008	0.026	0.030	0.017	0.007	0.004	0.005	0.007	0.002	0.008	0.176
01/20/11	0.020	0.021	0.002	0.023	0.005	0.000	0.008	0.010	0.020	0.006	0.006	0.026	0.003	0.011	0.005	0.013	0.015	0.014	0.012	0.004	0.008	0.010	0.002	0.008	0.252
01/21/11	0.002	0.005	0.010	0.008	0.005	0.002	0.005	0.011	0.008	0.006	0.006	0.004	0.008	0.011	0.015	0.023	0.018	0.017	0.007	0.004	0.008	0.007	0.005	0.005	0.200
01/22/11	0.005	0.005	0.002	0.002	0.008	0.008	0.005	0.003	0.003	0.001	0.001	0.003	0.006	0.010	0.015	0.020	0.025	0.017	0.007	0.007	0.005	0.008	0.003	0.002	0.171
01/23/11	0.005	0.005	0.005	0.087	0.023	0.010	0.008	0.010	0.028	0.011	0.021	0.037	0.023	0.005	0.018	0.013	0.020	0.020	0.030	0.005	0.007	0.003	0.007	0.000	0.401
01/24/11	0.008	0.000	0.010	0.005	0.002	0.000	0.003	0.008	0.000	0.007	0.001	0.001	0.003	INV	0.015	0.015	0.010	0.025	0.009	0.024	0.017	0.003	0.015	0.020	0.201
01/25/11	0.031	0.018	0.028	0.013	0.008	0.028	0.010	0.013	0.005	0.023	0.007	0.007	0.011	0.001	0.011	0.008	0.014	0.019	0.012	0.004	0.005	0.007	0.013	0.010	0.306
01/26/11	0.000	0.003	0.005	0.010	INV	INV	INV	INV	0.111	0.005	0.014	0.044	0.002	0.013	0.008	0.028	0.020	0.020	0.017	0.025	0.033	0.005	0.023	0.028	0.414
01/27/11	0.028	0.028	0.005	0.003	0.010	0.002	0.015	0.008	0.008	0.019	0.009	0.004	0.010	0.011	0.028	0.016	0.023	0.012	0.009	0.012	0.009	0.008	0.010	0.005	0.292
01/28/11	0.005	0.018	0.005	0.015	0.005	0.021	0.010	0.008	0.013	0.001	0.001	0.016	0.006	0.006	0.008	0.023	0.018	0.017	0.011	0.007	0.012	0.010	0.008	0.007	0.251
01/29/11	0.003	0.008	0.005	0.005	0.005	0.005	0.010	0.029	0.003	0.006	0.002	0.001	0.011	0.015	0.018	0.020	0.025	0.017	0.009	0.006	0.018	0.005	0.005	0.005	0.236
01/30/11	0.005	0.002	0.002	0.005	0.005	0.005	0.013	0.024	0.000	0.011	0.001	0.009	0.006	0.003	0.020	0.028	0.017	0.017	0.007	0.007	0.005	0.005	0.021	0.036	0.254
01/31/11	0.002	0.000	0.003	0.005	0.000	0.000	0.000	0.003	0.001	0.002	0.005	0.003	0.007	0.013	0.015	0.005	0.006	0.003	0.002	0.002	0.003	0.002	0.005	0.005	0.092

Total Evaporation for the month =3.500

Total Number of Observations: 339 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

FEBRUARY 2011

EVAPORATION (inches)

Day	Hour 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 Evaporation
02/01/10	INV	INV	INV	INV	INV	INV	INV	INV	0.019	0.012	0.006	0.008	0.003	0.013	INV	0.026	0.023	0.015	0.015	0.051	0.004	0.009	0.018	0.011	0.233
02/02/10	0.020	0.020	0.022	0.008	0.049	0.000	INV	INV	0.047	0.001	0.001	0.008	0.068	0.090	0.108	0.049	0.005	0.016	0.000	0.003	0.002	0.003	0.003	0.002	0.525
02/03/10	0.000	0.000	0.003	0.003	0.000	INV	INV	INV	0.001	0.000	0.001	0.002	0.012	0.055	0.026	0.020	0.031	0.011	0.002	0.018	0.001	0.000	0.001	0.001	0.188
02/04/10	0.000	0.000	0.000	0.005	0.015	0.003	INV	INV	0.049	0.007	0.035	0.058	0.042	0.003	INV	0.033	0.025	0.027	0.014	0.009	0.004	0.002	0.003	0.000	0.334
02/05/10	0.005	0.000	0.000	0.002	0.000	0.000	INV	0.002	0.015	0.003	0.010	0.004	0.004	0.008	0.021	0.013	0.020	0.016	0.007	0.007	0.007	0.004	0.005	0.003	0.156
02/06/10	0.005	0.003	0.003	0.003	0.003	0.003	0.003	0.005	0.005	0.005	0.019	0.010	0.006	0.003	0.011	0.012	0.023	0.022	0.009	0.009	0.013	0.023	0.005	0.013	0.216
02/07/10	0.005	0.015	0.020	0.020	0.008	0.015	0.041	0.002	0.026	0.003	0.009	0.003	0.009	0.006	0.014	0.010	0.032	0.030	0.014	0.009	0.007	0.007	0.007	0.002	0.314
02/08/10	0.005	0.008	0.005	0.003	0.005	0.005	0.005	0.010	0.028	0.008	0.049	0.005	0.026	0.005	0.005	0.020	0.038	0.043	0.020	0.011	0.007	0.008	0.004	0.008	0.331
02/09/10	0.023	0.018	0.013	0.028	0.007	0.072	0.013	0.023	0.031	0.021	0.022	0.002	0.011	0.016	0.009	0.016	0.020	0.027	0.035	0.022	0.023	0.005	0.007	0.031	0.495
02/10/10	0.003	0.020	0.026	0.017	0.010	0.007	0.023	0.008	0.020	0.022	0.023	0.007	0.023	0.009	0.011	0.013	0.026	0.025	0.011	0.013	0.018	0.001	0.015	0.002	0.353
02/11/10	0.005	0.015	0.010	0.005	0.010	0.003	0.000	0.010	0.003	0.006	0.006	0.004	0.003	0.023	INV	0.000	0.015	0.020	0.017	0.016	0.010	0.020	0.013	0.010	0.224
02/12/10	0.006	0.008	0.007	0.021	0.006	0.010	0.018	0.020	0.013	0.010	0.029	0.037	0.026	0.011	0.008	0.018	0.038	0.025	0.024	0.015	0.009	0.010	0.015	0.028	0.412
02/13/10	0.008	0.010	0.007	0.004	0.013	0.005	0.016	0.003	0.011	0.032	0.012	0.006	0.008	0.006	0.021	0.026	0.030	0.040	0.011	0.017	0.010	0.010	0.005	0.008	0.319
02/14/10	0.008	0.005	0.020	0.007	0.005	0.018	0.011	0.005	0.022	0.006	0.004	0.003	0.016	0.011	0.028	0.028	0.030	0.030	0.019	0.022	0.012	0.010	0.007	0.004	0.331
02/15/10	0.013	0.008	0.013	0.005	0.008	0.005	0.018	0.008	0.006	0.017	0.002	0.014	0.013	0.011	0.016	0.030	0.050	0.025	0.024	0.009	0.015	0.005	0.010	0.008	0.333
02/16/10	0.005	0.005	0.005	0.003	0.008	0.003	0.003	0.005	0.008	0.004	0.001	0.006	0.016	INV	0.015	0.022	0.027	0.012	0.007	0.010	0.008	0.005	0.007	0.005	0.190
02/17/10	0.004	0.005	0.002	0.004	0.004	0.003	0.003	0.003	0.002	0.014	0.001	0.002	0.004	0.003	0.011	0.010	0.013	0.025	0.017	0.010	0.007	0.010	0.010	0.004	0.171
02/18/10	0.003	0.005	0.005	0.003	0.005	INV	INV	INV	0.027	0.003	0.001	0.004	0.006	0.005	0.010	0.010	0.003	0.013	INV	INV	INV	INV	INV	INV	0.103
02/19/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.000
02/20/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.000	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.000
02/21/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.051	0.051	INV	0.001	0.001	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.104
02/22/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.094	0.001	0.006	0.005	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.106
02/23/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.000	0.000	0.008	0.001	0.020	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.029
02/24/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.020	0.003	INV	0.012	0.020	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.055
02/25/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.000	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.000
02/26/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.000
02/27/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.000	INV	0.009	INV	INV	INV	INV	INV	INV	INV	INV	0.009
02/28/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.000

Total Evaporation for the month =5.531

Total Number of Observations: 424 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

MARCH 2011

EVAPORATION (inches)

Day	Hour 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 Evaporation
03/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.000
03/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.000
03/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.000
03/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.000
03/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.000
03/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.000
03/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.000
03/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.000
03/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.025	0.020	0.011	0.009	0.009	0.010	0.006	0.090
03/10/11	0.010	0.008	0.004	0.005	0.015	0.003	0.012	0.005	0.016	0.024	0.005	0.004	0.011	0.012	0.008	0.014	0.017	0.032	0.022	0.016	0.017	0.009	0.009	0.009	0.287
03/11/11	0.008	0.010	0.013	0.008	0.010	0.013	0.013	0.018	0.001	0.004	0.002	0.021	0.019	0.028	0.030	0.036	0.041	0.040	0.027	0.020	0.012	0.007	0.007	0.005	0.393
03/12/11	0.008	0.008	0.005	0.007	0.008	0.008	0.005	0.002	0.001	0.002	0.004	0.012	0.018	0.028	0.038	0.043	0.028	0.035	0.022	0.015	0.010	0.010	0.010	0.010	0.337
03/13/11	0.005	0.008	0.003	0.005	0.005	0.005	0.003	0.005	0.001	0.001	0.004	0.011	0.021	0.026	0.023	0.033	0.035	0.038	0.027	0.010	0.010	0.010	0.012	0.007	0.308
03/14/11	0.005	0.002	0.008	0.002	0.005	0.005	0.003	0.002	0.001	0.002	0.009	0.008	0.018	0.051	0.036	0.023	0.031	0.030	0.024	0.010	0.010	0.007	0.007	0.005	0.304
03/15/11	0.005	0.005	0.008	0.003	0.005	0.007	0.003	0.013	0.011	0.001	0.001	0.018	0.023	0.013	0.023	0.023	0.025	0.025	0.017	0.007	0.007	0.010	0.005	0.007	0.265
03/16/11	0.005	0.005	0.003	0.008	0.005	0.005	0.013	0.000	0.003	0.003	0.001	0.011	0.031	0.031	0.043	0.033	0.023	0.028	0.028	0.009	0.010	0.013	0.007	0.007	0.325
03/17/11	0.010	0.005	0.005	0.007	0.015	0.008	0.005	0.031	0.008	0.001	0.008	0.010	0.026	0.023	0.023	0.051	0.025	0.041	0.043	0.012	0.010	0.007	0.008	0.010	0.392
03/18/11	0.002	0.007	0.003	0.005	0.005	0.005	0.008	0.013	0.011	0.001	0.008	0.016	0.023	0.028	0.046	0.030	0.043	0.023	0.017	0.010	0.007	0.007	0.007	0.005	0.330
03/19/11	0.008	0.008	0.003	0.002	0.002	0.005	0.002	0.003	0.002	0.001	0.006	0.036	0.021	0.033	0.033	0.036	0.038	0.015	0.018	0.005	0.007	0.008	0.002	0.005	0.299
03/20/11	0.005	0.005	0.002	0.016	0.005	0.023	0.018	0.028	0.033	0.003	0.018	0.013	0.021	0.018	0.030	0.020	0.013	0.015	0.013	0.013	0.008	0.005	0.005	0.008	0.338
03/21/11	0.010	0.015	0.010	0.015	0.013	0.007	0.010	0.008	0.018	0.000	0.010	0.023	0.082	INV	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.002	0.233
03/22/11	0.003	0.000	0.008	0.000	0.002	0.003	0.003	0.002	0.001	0.080	0.013	0.000	0.008	0.004	0.023	0.013	0.020	0.015	0.022	0.012	0.002	0.003	0.007	0.002	0.246
03/23/11	0.003	0.005	0.000	0.010	0.003	0.008	0.008	0.000	0.001	0.002	0.004	0.009	0.013	0.013	0.010	0.026	0.035	0.033	0.022	0.009	0.010	0.008	0.005	0.002	0.239
03/24/11	0.015	0.005	0.005	0.003	0.008	0.003	0.003	0.003	0.004	0.003	0.004	0.008	0.015	INV	0.021	0.026	0.020	0.020	0.022	0.009	0.005	0.010	0.004	0.003	0.219
03/25/11	0.005	0.003	0.000	0.007	0.000	0.005	0.002	0.003	0.004	0.004	0.006	0.010	0.018	0.023	0.028	0.036	0.020	0.033	0.027	0.010	0.010	0.010	0.002	0.003	0.269
03/26/11	0.003	0.005	0.003	0.005	0.000	0.003	0.003	0.005	0.001	0.001	0.001	0.006	0.013	0.028	0.026	0.026	0.043	0.025	0.020	0.017	0.010	0.002	0.005	0.005	0.256
03/27/11	0.004	0.003	0.008	0.003	0.003	0.005	0.002	0.001	0.006	0.004	0.014	0.008	0.018	0.028	0.028	0.016	0.018	0.028	0.015	0.010	0.010	0.007	0.005	0.002	0.246
03/28/11	0.005	0.005	0.007	0.005	0.005	0.003	0.000	0.001	0.001	0.002	0.006	0.010	0.016	0.018	0.020	0.043	0.030	0.038	0.031	0.007	0.010	0.010	0.002	0.013	0.288
03/29/11	0.002	0.008	0.002	0.002	0.002	0.000	0.008	0.003	0.001	0.001	0.006	0.011	0.016	0.021	INV	0.030	0.038	0.038	0.022	0.015	0.010	0.004	0.010	0.005	0.255
03/30/11	0.005	0.008	0.002	0.010	0.005	0.002	0.003	0.005	0.001	0.001	0.009	0.013	0.013	0.033	0.033	0.031	0.046	0.028	0.030	0.015	0.010	0.008	0.005	0.005	0.321
03/31/11	0.008	0.012	0.010	0.003	0.008	0.002	0.008	0.008	0.001	0.006	0.011	0.029	0.041	0.026	0.032	0.035	0.053	0.036	0.027	0.015	0.012	0.015	0.007	0.007	0.412

Total Evaporation for the month =6.652

Total Number of Observations: 532 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-I

HOURLY PRECIPITATION DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JANUARY 2011

PRECIPITATION (inches)

Day	Hour 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 Precipitation
01/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
01/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
01/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
01/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
01/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
01/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
01/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
01/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
01/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
01/10/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
01/11/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
01/12/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
01/13/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
01/14/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
01/15/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
01/16/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
01/17/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/18/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/19/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/20/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/21/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/22/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/23/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/24/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/25/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/26/11	0.00	0.00	0.00	0.00	INV	INV	INV	INV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/27/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/28/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/29/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/30/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/31/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02

Total Precipitation for the month = 0.02

Total Number of Observations: 341 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

FEBRUARY 2011

PRECIPITATION (inches)

Day	Hour 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 Precipitation
02/01/10	INV	INV	INV	INV	INV	INV	INV	INV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/02/10	0.00	0.00	0.00	0.00	0.00	0.00	INV	INV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/03/10	0.00	0.00	0.00	0.00	0.00	INV	INV	INV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/04/10	0.00	0.00	0.00	0.00	0.00	0.00	INV	INV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/05/10	0.00	0.00	0.00	0.00	0.00	0.00	INV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/06/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/07/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/08/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/09/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/10/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/11/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/12/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/13/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/14/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/15/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/16/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/17/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/18/10	0.00	0.00	0.00	0.00	0.00	INV	INV	INV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	INV	INV	INV	INV	INV	INV	0.00
02/19/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
02/20/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
02/21/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00	0.00	INV	0.00	0.00	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
02/22/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00	0.00	0.00	0.00	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
02/23/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00	0.00	0.00	0.00	0.00	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
02/24/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00	0.00	INV	0.00	0.00	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
02/25/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
02/26/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
02/27/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.20	INV	0.02	INV	INV	INV	INV	INV	INV	INV	INV	0.22
02/28/10	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00

Total Precipitation for the month = 0.22

Total Number of Observations: 428 **Possible Number of Observations:** 672 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

MARCH 2011

PRECIPITATION (inches)

Day	Hour 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 Precipitation
03/01/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
03/02/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
03/03/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
03/04/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
03/05/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
03/06/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
03/07/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
03/08/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00
03/09/11	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/10/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/11/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/12/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/13/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/14/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/15/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/16/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/17/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/18/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/19/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/20/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/21/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.06	0.07	0.05	0.05	0.03	0.01	0.00	0.00	0.31
03/22/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	INV	INV	INV	INV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/23/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/24/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/25/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/26/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/27/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/28/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/29/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/30/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/31/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Precipitation for the month = 0.31

Total Number of Observations: 532 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

APPENDIX B

METEOROLOGICAL PERFORMANCE AUDIT REPORT

Resolution Copper Mine Monitoring Sites

Semi-Annual Meteorological Audit Report

Superior, Arizona

January 11 & March 22, 2011

Prepared for:
Resolution Copper Company
102 Magma Heights
Superior, AZ 85273
Contact: Mayra Yrizarry
520.689.3332

Prepared by:
Applied Environmental Consultants
1553 W. Elna Rae, Ste. 101
Tempe, Arizona 85281
Contact: Thitipong (Jeep) Chindavijak
480.829.0457

APRIL 5, 2011

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1. INTRODUCTION

This report summarizes the results of a performance audit of two separate monitoring stations, one at the location of the east plant (KC1) and the west plant (KC2), conducted by Applied Environmental Consultants, a JBR company. (AEC) on January 11 and March 22, 2011 respectively. The Resolution Mine is located just east of Superior, Arizona in Pinal County as shown in Figure 1.1. The meteorological performance audit was conducted according to the United States Environmental Protection Agency (EPA) guidance documents *Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD)*, EPA-450/4-87-007, May 1987, and the EPA *Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements Versions 2.0,* EPA-454/B-08-002, March 2008.

The ensuing sections of this appendix present the details of the audit and the audit results. Section 2 contains a description of the performance audit procedures, Section 3 contains the audit criteria and the audit results are presented in Section 4.



Figure 1.1 Map showing locations of KC1 and KC2 monitoring sites in Pinal County, Arizona.

2. DESCRIPTION OF PERFORMANCE AUDIT PROCEDURES

The meteorological performance audit process included an overall inspection of the monitoring system and physical challenges of the instruments. A complete listing of the audited meteorological equipment is presented in Table 2.1. The following sections describe the audit procedures for each meteorological parameter.

Table 2.1 Monitoring Equipment Evaluated During The Audit

Parameter	Manufacturer	Model Number	Serial Number	
			KC1	KC2
Wind Speed	Met One	014A	A6938	Invisible
Wind Direction	Met One	024A	Invisible	Invisible
Differential Temperature				
2-meter sensor	RM Young	43347-L	15044	15046
10-meter sensor	RM Young	43347-L	15048	15047
Humidity / Temperature	Campbell Scientific	HMP50-L	D2230029	D2230030
Pressure	Campbell Scientific	CS100	3629398	3629397
Solar Radiation	LI-COR	LI200X	Invisible	Invisible
Evaporation	Novalynx	255-100	526	527
Precipitation	Met One	970	Invisible	860-B

2.1 Wind Speed

The wind speed sensor was visually inspected to ensure that it was functional and well maintained. The wind speed sensor was challenged by removing the propeller, attaching an R.M. Young 18802 variable speed anemometer drive to the sensor shaft, and generating simulated audit wind speeds. The sensor response to seven different rates of rotation as recorded by the data acquisition system (DAS) was compared to the simulated wind speeds. The mean absolute error of the sensor responses was then calculated.

The wind speed starting threshold was checked by attaching a Waters Series 366 torque watch to the sensor shaft. Starting torque is related to the sensor starting threshold by a manufacturer supplied relationship. By rotating the torque watch shaft clockwise and counterclockwise, the starting torque can be measured.

2.2 Wind Direction

To evaluate the alignment of the wind direction sensor, the wind vane was pointed toward previously surveyed points and the DAS responses were recorded. These sensor responses were then compared to the known direction and a mean absolute alignment error was calculated. Next, the wind direction sensor was removed from the tower and attached to a R.M. Young 18112 wind direction calibrator to evaluate the sensor's internal response characteristics. The vane was aligned to 12 different directions from 10° to 340° at 30° increments, and the sensor response was recorded. The mean absolute error of the sensor responses was then calculated.

Starting torque for the wind direction sensor was determined by attaching an R.M. Young Vane Torque Gauge, Model 18331 over the center of the wind direction sensor shaft. The threshold torque necessary to start and maintain the movement of the sensor was determined. Several points around the 360° instrument range were tested and compared to the manufacturer's suggested starting torque. Upon completion of the audit, the wind direction sensor was reinstalled and the alignment was rechecked to verify proper alignment with true north.

2.3 Differential Temperature

The differential temperature system being utilized consists of a matched pair of temperature sensors which are placed at 2-meters and 10-meters above the ground. The audit for the two sensors was conducted under two different procedures. First, the 2-meter and 10-meter temperature sensors were audited by immersing both sensors together in water baths of different temperatures (ice, ambient, and upscale) together with an Fisher Scientific NIST-traceable digital thermometer (see Appendix B-EQUIP). For each observation, the bath was stirred to ensure a uniform temperature throughout and the temperature sensors and audit thermometer responses were allowed to stabilize. Five paired measurements were taken and the differences between both the 2-meter and 10-meter sensors and the audit thermometer were averaged for each of the three water baths.

The purpose of the second audit procedure is to verify that both differential temperature sensors have similar readings under varying temperature conditions. Thus, the audit thermometers are used only as a reference to ensure the temperature conditions are similar during the test. The second audit procedure involves immersing the 2-meter temperature sensor in an ambient water bath with an audit thermometer concurrently with immersing the 10-meter temperature sensor and a second audit thermometer in an ice water bath. Both bathes were stirred to ensure uniform temperature. Five measurements for each bath were taken and the differences between the 10-meter and 2-meter temperature sensors were averaged. Then, the 2-meter and 10-meter temperature sensors were placed in opposite baths. Another five measurements for each bath were recorded and the differences between the 10-meter and 2-meter temperature sensors were averaged. Finally, the absolute difference between the average differential temperatures for each bath was then calculated.

2.4 Relative Humidity

The relative humidity sensor was audited by comparison measurements with an EXTECH RH390 at ambient conditions. The RH390 measures relative humidity by a precision capacitance sensor and is

NIST traceable (see Appendix B-EQUIP). The absolute difference between the relative humidity sensors from the psychrometer and the field sensor was determined.

2.5 Temperature

The temperature probe at each location was audited by measuring the ambient air temperatures together with a Fisher Scientific traceable digital thermometer. The Fisher thermometer was previously certified against a NIST-traceable thermometer (see Appendix B-EQUIP). For each observation, the temperature probe and audit thermometer responses were allowed to stabilize. Five paired measurements were taken and the mean absolute differences were calculated.

2.6 Barometric Pressure

The ambient barometric pressure was compared to the barometric pressure as measured by a hand held barometer (70510462) manufactured by Druck Company. Five measurements were taken and the mean absolute difference was determined. The Druck pressure indicator was previously certified to an NIST-traceable pressure standard (see Appendix B-EQUIP).

2.7 Solar Radiation

The solar radiation sensor was audited by comparing the sensor to a reference standard pyranometer (PY69180) manufactured by Li-Cor Environmental. Both sensors were connected to the same datalogger for the most accurate performance audits. Five hourly readings were taken and the mean absolute difference was determined. The reference sensor was annually certified by the manufacturer (see Appendix B-EQUIP).

2.8 Evaporation

The Novalynx evaporation gauge was audited by subjecting the gauge to a known volume of water corresponding to 1.00" of water. The water was introduced to the sensor at a nominal rate to preclude splashing from the evaporation pan. The responses recorded by the computer were compared to the 1.00" introduced.

2.9 Precipitation

The Campbell tipping bucket was audited by subjecting the sensor to a known volume of water corresponding to 1.00" of water. The water was introduced to the sensor at a nominal rate to preclude splashing from the tipping bucket. The responses recorded by the computer were compared to the 1.00" introduced.

3. PERFORMANCE AUDIT CRITERIA

The performance audit criteria and applicable EPA references used to evaluate the monitoring system are presented in Table 3.1. All criteria meet or exceed those required by the EPA PSD guidelines and the EPA QA Handbook referenced above.

Table 3.1 Performance Audit Criteria and EPA References

Parameter	Method	Reference	Limit(s)
1. Wind Speed	Active rotation test, starting torque.	EPA QA Handbook (2008), Section 2.7 EPA PSD Guidelines (1987), Section 6.1.1	≤ 0.25 m/s for wind speeds ≤ 5.0 m/s ≤ 5.0% for wind speeds > 5.0 m/s Starting threshold ≤ 0.5 m/s*
2. Wind Direction	Alignment verification, vane bench test, starting torque.	EPA QA Handbook (2008), Section 2.7 EPA PSD Guidelines (1987), Section 6.1.1	± 5° alignment error relative to TRUE north ± 3° sensor error Starting threshold ≤ 0.5 m/s*
3. Differential Temperature	Stable mass comparison with NIST traceable thermometer.	EPA QA Handbook (2008), Section 3.6	± 0.05 °C mean error for same bath ± 0.1 °C mean error for different baths
4. Relative Humidity	Dew point temperature comparison with an aspirated psychrometer	EPA QA Handbook (2008), Section 5.6 EPA PSD Guidelines (1987), Section 6.1.6	Relative Humidity Error ≤ 10%
5. Temperature	Stable mass comparison with NIST traceable thermometer.	EPA QA Handbook (2008), Section 3.6 EPA PSD Guidelines (1987), Section 6.1.5	± 0.5 °C mean error
6. Barometric Pressure	Single-point comparison with NIST-traceable audit barometer.	EPA QA Handbook (2008), Section 7.7	≤ 0.1 in Hg (3 mb) absolute mean error
7. Solar Radiation	Intensity comparison with a reference standard pyranometer.	EPA QA Handbook (2008), Section 6.9 ASTM E 816, E 824	± 5% error
8. Evaporation	Simulated known amounts of evaporation.	National Weather Service Observing Handbook No. 2, Section 5 (1989)	± 10% of known amount
9. Precipitation	Simulated known amounts of precipitation.	EPA QA Handbook (2008), Section 4.5	± 10% of known amount

*For each instrument, a starting torque in gm-cm, equivalent to a ≤ 0.5 m/s starting threshold, is supplied by the manufacturer.

4. AUDIT RESULTS

The results of the performance audit are presented in Appendices B-KC1 and B-KC2, and are summarized in Tables 4.1 and 4.2. All sensors were operating properly and passed the audit. Note that the evaporation gauge at KC1 site was not audited due to water pan found empty.

Table 4.1 KC1 (East Plant) Performance Audit Result Summary

Parameter	Performance Audit Result	Pass/Fail
Wind Speed	Starting Torque* = 0.1 gm-cm	Pass
	Mean Absolute Error:	
	0.00 m/s (at speeds ≤ 5 m/s)	Pass
	1.43 % (at speeds > 5 m/s)	Pass
Wind Direction	Starting Torque* = 3.0 gm-cm	Pass
	Mean Absolute Error:	
	Alignment = 1.8°	Pass
	Sensor = 1.20°	Pass
2-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.1 °C	Pass
	Ambient Bath = 0.0 °C	Pass
	Upscale Bath = 0.1 °C	Pass
10-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.1 °C	Pass
	Ambient Bath = 0.0 °C	Pass
	Upscale Bath = 0.1 °C	Pass
Differential Temperature	Mean Absolute Difference (Same Bath):	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.0 °C	Pass
	Upscale Bath = 0.0 °C	Pass
	Mean Absolute Difference (Different Baths):	
	Absolute Difference = 0.09 °C	Pass
Relative Humidity	Mean Absolute Percent Error = 3.5 %	Pass
Ambient Temperature	Mean Absolute Error = 0.2 °C	Pass
Barometric Pressure	Mean Absolute Error = 0.06 in-Hg	Pass
Solar Radiation	Mean Absolute Percent Error = 3.07 %	Pass
Evaporation	Mean Absolute Percent Error = - %	Pass
Precipitation	Mean Absolute Percent Error = 6.50 %	Pass

*The starting torque pass/fail limits for the wind speed and wind direction sensors are equivalent to a starting threshold of ≤ 0.5 m/s.

Table 4.2 KC2 (West Plant) Performance Audit Result Summary

Parameter	Performance Audit Result	Pass/Fail
Wind Speed	Starting Torque* = 0.1 gm-cm	Pass
	Mean Absolute Error:	
	0.00 m/s (at speeds ≤ 5 m/s)	Pass
	1.45 % (at speeds > 5 m/s)	Pass
Wind Direction	Starting Torque* = 8.0 gm-cm	Pass
	Mean Absolute Error:	
	Alignment = 2.0°	Pass
	Sensor = 0.7°	Pass
2-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.1 °C	Pass
	Ambient Bath = 0.1 °C	Pass
	Upscale Bath = 0.0 °C	Pass
10-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.1 °C	Pass
	Ambient Bath = 0.1 °C	Pass
	Upscale Bath = 0.0 °C	Pass
Differential Temperature	Mean Absolute Difference (Same Bath):	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.0 °C	Pass
	Upscale Bath = 0.0 °C	Pass
	Mean Absolute Difference (Different Baths):	
	Absolute Difference = -0.03 °C	Pass
Relative Humidity	Mean Absolute Percent Error = 6.3 %	Pass
Ambient Temperature	Mean Absolute Error = 0.1 °C	Pass
Barometric Pressure	Mean Absolute Error = 0.05 in-Hg	Pass
Solar Radiation	Mean Absolute Percent Error = 3.14 %	Pass
Evaporation	Mean Absolute Percent Error = 6.50 %	Pass
Precipitation	Mean Absolute Percent Error = 1.50 %	Pass

*The starting torque pass/fail limits for the wind speed and wind direction sensors are equivalent to a starting threshold of ≤ 0.5 m/s.

APPENDIX B-KC1
PERFORMANCE AUDIT RESULTS

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

WIND SPEED SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 1/11/2011

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

WIND SPEED SENSOR INFORMATION

MAKE: Met One
MODEL: 014A
SERIAL #: A6938
START TIME: 9:30
END TIME: 11:10

MULTIPLIER (rpm to m/s): 0.026662
OFFSET (rpm to m/s): 0.44704
STARTING TORQUE (gm-cm): 0.10
STARTING THRESHOLD LIMIT: 0.28 g-cm
STARTING THRESHOLD RESULTS: PASS
VISUAL CONDITION: Good

SENSOR RESPONSE TEST

Simulated Rotation (rpm)	Simulated Wind Speed (m/s)	Sensor Response (m/s)	Difference (m/s)	Percent Difference (%)*
0	0.00	0.00	0.00	NA
200	5.78	5.65	NA	-2.24
300	8.45	8.45	NA	0.05
400	11.11	11.65	NA	4.84
500	13.78	13.67	NA	-0.78
1000	27.11	27.65	NA	2.00
1500	40.44	40.45	NA	0.02
1700	45.77	45.72	NA	-0.11

AUDIT RESULTS

Mean Absolute Difference (WS ≤ 5 m/s):	0.00	PASS
Mean Absolute Percent Difference (WS > 5 m/s):	1.43	PASS

* Percent Difference is calculated as 100*(Simulated Wind Speed - Sensor Response)/Sensor Response

Comments:

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

WIND DIRECTION SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 1/11/2011

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

WIND DIRECTION SENSOR INFORMATION

MAKE: Met One
MODEL: 024A
SERIAL #: Invisible
START TIME: 9:30
END TIME: 11:10

STARTING TORQUE (gm-cm): 3.0
STARTING THRESHOLD LIMIT: 8.64 gm-cm
STARTING THRESHOLD RESULTS: PASS
VISUAL CONDITION: Good

ALIGNMENT TEST

Known Direction (Deg. TRUE)	AS FOUND Sensor Response (Degrees)	Difference (Degrees)
66.0	66.8	-0.8
136.0	134.3	1.7
280.0	281.4	-1.4
338.0	334.8	3.2

AS LEFT Sensor Response (Degrees)	Difference (Degrees)
66.7	0.7
137.1	1.1
281.3	1.3
334.9	-3.1

MEAN ABSOLUTE DIFFERENCE: 1.8
RESULTS (PASS/FAIL): PASS

MEAN ABSOLUTE DIFFERENCE: 1.6
RESULTS (PASS/FAIL): PASS

SENSOR RESPONSE TEST

True Direction (Degrees)	Sensor Response (Degrees)	Difference (Response - True) (Degrees)
10	10.7	0.7
40	40.2	0.2
70	69.9	-0.1
100	100.6	0.6
130	131.0	1.0
160	160.4	0.4
190	191.2	1.2
220	222.0	2.0
250	251.9	1.9
280	282.4	2.4
310	311.8	1.8
340	342.5	2.5

AUDIT RESULTS

Mean Absolute Difference: 1.2 PASS

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

DELTA-T SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 1/11/11

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

TEMPERATURE SENSOR INFORMATION
10-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15048
START TIME: 9:30
END TIME: 11:10

REFERENCE THERMOMETER INFORMATION
MAKE: Fisher Scientific
MODEL: 15-077-8
SERIAL #: 21069755
LAST CALIBRATION DATE: 08/23/10

2-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15044
START TIME: 9:30
END TIME: 11:10

MAKE: Fisher Scientific
MODEL: 15-077-7
SERIAL #: 80438125
LAST CALIBRATION DATE: 12/09/10

TEST 1: BOTH PROBES IN SAME BATH

COLD TEMPERATURE BATH TEST

Reference Sensor (°C)	10 m Field Sensor (°C)	2 m Field Sensor (°C)	Absolute Difference (10 m - Ref) (°C)	Absolute Difference (2 m - Ref) (°C)	Absolute Difference (10 m - 2 m) (°C)
0.2	0.2	0.2	0.0	0.0	0.0
0.1	0.2	0.2	0.1	0.1	0.0
0.3	0.1	0.2	0.2	0.2	0.1
0.3	0.1	0.1	0.2	0.2	0.0
0.2	0.1	0.2	0.1	0.1	0.0

AUDIT RESULTS

	10 m - Ref	2 m - Ref	10 m - 2 m
Mean Absolute Difference	0.1	0.1	0.0
	PASS	PASS	PASS

AMBIENT TEMPERATURE BATH TEST

Reference Sensor (°C)	10 m Field Sensor (°C)	2 m Field Sensor (°C)	Absolute Difference (10 m - Ref) (°C)	Absolute Difference (2 m - Ref) (°C)	Absolute Difference (10 m - 2 m) (°C)
9.6	9.6	9.6	0.0	0.0	0.0
9.6	9.7	9.7	0.0	0.1	0.0
9.6	9.6	9.6	0.0	0.0	0.0
9.6	9.5	9.6	0.0	0.0	0.1
9.5	9.6	9.5	0.0	0.0	0.0

AUDIT RESULTS

	10 m - Ref	2 m - Ref	10 m - 2 m
Mean Absolute Difference	0.0	0.0	0.0
	PASS	PASS	PASS

HOT TEMPERATURE BATH TEST

Reference Sensor (°C)	10 m Field Sensor (°C)	2 m Field Sensor (°C)	Absolute Difference (10 m - Ref) (°C)	Absolute Difference (2 m - Ref) (°C)	Absolute Difference (10 m - 2 m) (°C)
43.2	43.1	43.1	0.1	0.1	0.0
43.1	43.2	43.3	0.1	0.1	0.0
43.2	43.2	43.2	0.0	0.0	0.0
43.1	43.1	43.1	0.0	0.0	0.0
43.1	43.0	43.0	0.1	0.1	0.0

AUDIT RESULTS

	10 m - Ref	2 m - Ref	10 m - 2 m
Mean Absolute Difference	0.1	0.1	0.0
	PASS	PASS	PASS

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

DELTA-T SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 1/11/11

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

TEMPERATURE SENSOR INFORMATION

10-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15048
START TIME: 9:30
END TIME: 11:10

2-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15044
START TIME: 9:30
END TIME: 11:10

REFERENCE THERMOMETER INFORMATION

MAKE: Fisher Scientific
MODEL: 15-077-8
SERIAL #: 21069755
LAST CALIBRATION DATE: 08/23/10

MAKE: Fisher Scientific
MODEL: 15-077-7
SERIAL #: 80438125
LAST CALIBRATION DATE: 12/09/10

TEST 2: PROBES IN DIFFERENT BATHS

AMBIENT AND COLD TEMPERATURE BATHS - FIRST READING

Reference Sensor Ambient (°C)	10 m Field Sensor Ambient (°C)	Reference Sensor Cold (°C)	2 m Field Sensor Cold (°C)	Absolute Difference (Ambient -Cold Ref. Sensor)	Absolute Difference (10 m - 2 m) (°C)
19.1	19.0	0.3	0.3	18.8	18.8
19.1	19.0	0.6	0.5	18.5	18.5
19.1	19.0	0.7	0.3	18.4	18.7
19.1	19.0	0.3	0.3	18.8	18.7
19.0	19.1	0.2	0.2	18.8	19.0

AMBIENT AND COLD TEMPERATURE BATHS - SECOND READING

Reference Sensor Ambient (°C)	2 m Field Sensor Ambient (°C)	Reference Sensor Cold (°C)	10 m Field Sensor Cold (°C)	Absolute Difference (Ambient -Cold Ref. Sensor)	Absolute Difference (10 m - 2 m) (°C)
18.7	18.7	0.1	0.1	18.6	18.7
18.6	18.6	0.1	0.1	18.5	18.6
18.5	18.5	0.1	0.1	18.4	18.4
18.4	18.3	0.1	0.1	18.3	18.2
18.3	18.3	0.1	0.1	18.2	18.1

AUDIT RESULTS

	10 m Ambient - 2 m Cold	10 m Cold - 2 m Ambient	Adjustment for Bath Temp Differences *	Absolute Difference **
Mean Absolute Difference	18.7	18.4	0.2	0.09
				PASS

* Represents change in bath temperatures between first reading and second reading based on average reference sensor differences in first reading minus average reference sensor differences in second reading.

** Adjusted for temperature variations that occurred in baths between first and second readings.

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

TEMPERATURE SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 1/11/11

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

TEMPERATURE SENSOR INFORMATION

MAKE: Campbell Scientific
MODEL: HMP50-L
SERIAL #: D2230029
START TIME: 10:10
END TIME: 11:00

REFERENCE THERMOMETER INFORMATION

MAKE: Fisher Scientific
MODEL: 15-077-B
SERIAL #: 21069755
LAST CALIBRATION DATE: 08/23/10

AMBIENT TEMPERATURE BATH TEST

Reference Sensor (°C)	Field Sensor (°C)	Difference (Field - Ref) (°C)
5.4	5.2	-0.2
5.3	5.1	-0.2
5.4	5.2	-0.2
5.6	5.3	-0.3
5.4	5.2	-0.2

AUDIT RESULTS

Mean Absolute Difference: 0.2

PASS

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

RELATIVE HUMIDITY SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 1/11/11

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

RELATIVE HUMIDITY SENSOR INFORMATION

MAKE: Campbell Scientific
MODEL: HMP50-L
SERIAL #: D2230029
START TIME: 9:40
END TIME: 10:15

REFERENCE SENSOR INFORMATION

MAKE: Extech Instruments
MODEL: RH390
SERIAL #: H075361
LAST CALIBRATION DATE: 7/3/2010

RELATIVE HUMIDITY

Point Number	Reference Sensor Relative Humidity (%)	Field Sensor Relative Humidity (%)	Percent Difference (%)
1	44.4	48.0	3.6
2	45.1	48.4	3.3
3	44.6	48.0	3.4
4	44.5	48.7	4.2
5	45.2	48.2	3.0

AUDIT RESULTS

Mean Difference: 3.5 PASS

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

BAROMETRIC PRESSURE SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 1/11/11
START TIME: 9:45
END TIME: 10:45

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

BAROMETRIC PRESSURE SENSOR
MAKE: Campbell Scientific
MODEL: CS100
SERIAL #: 3629398

REFERENCE SENSOR
MAKE: Druck
MODEL: DPI 705
SERIAL #: 70510462
LAST CALIBRATION DATE: 06/07/10

Druck Pressure (in Hg)	Sensor Pressure (in Hg)	Difference Sensor-Ultimeter (in Hg)	Absolute Difference Sensor-Ultimeter (in Hg)
26.02	25.95	-0.07	0.07
26.01	25.95	-0.06	0.06
26.01	25.95	-0.06	0.06
26.01	25.95	-0.06	0.06
26.00	25.95	-0.05	0.05

Mean Absolute Difference: 0.06
Results (Pass/Fail): PASS

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

SOLAR RADIATION SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 1/11/11
START TIME: 10:00
END TIME: 15:00

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

SOLAR RADIATION SENSOR
MAKE: LI-COR
MODEL: LI200X
SERIAL #: Invisible

REFERENCE SENSOR
MAKE: LI-COR
MODEL: LI200X
SERIAL #: PY69180
LAST CALIBRATION DATE: 05/18/10

Time (Hourly Ending)	Reference Sensor (W/m2)	Field Sensor (W/m2)	Difference (W/m2)	Absolute Difference (W/m2)	Difference (%)
10	323.4	329.1	5.70	5.70	1.76%
11	466.3	451.2	-15.10	15.10	3.24%
12	556.3	537.3	-19.00	19.00	3.42%
13	602.8	581.9	-20.90	20.90	3.47%
14	610.4	589.3	-21.10	21.10	3.46%

Mean Absolute Difference: 3.07%
Results (Pass/Fail): PASS

APPLIED ENVIRONMENTAL CONSULTANTS
METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

EVAPORATION GAUGE AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 1/11/2011

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

SENSOR INFORMATION

MAKE: Novalynx
MODEL: 255-100
SERIAL #: 526
START TIME: -
END TIME: -

SENSOR CONDITION: Good

EVAPORATION GAUGE VOLUME TEST					
Water Application Sequence	Volume of Water (l)	Equivalent Measurement (in)	Count Recorder (in)	Difference (in)	Difference (%)
1	30.00	-1	-	-	-
2	30.00	-1	-	-	-
			Mean Difference:	-	-
					-

APPLIED ENVIRONMENTAL CONSULTANTS
METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

PRECIPITATION GAUGE AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 1/11/2011

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

SENSOR INFORMATION

MAKE: Met One
MODEL: 970
SERIAL #: Invisible
START TIME: 10:30
END TIME: 13:00

SENSOR CONDITION: Good

PRECIPITATION SENSOR VOLUME TEST					
Water Application Sequence	Volume of Water (l)	Equivalent Measurement (in)	Count Recorder (in)	Difference (in)	Difference (%)
1	0.946	1.00	1.03	0.03	3.00%
2	0.946	1.00	1.10	0.10	10.00%
				Mean Difference:	6.50%
					PASS

APPENDIX B-KC2
PERFORMANCE AUDIT RESULTS

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

WIND SPEED SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 3/22/2011

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

WIND SPEED SENSOR INFORMATION

MAKE: Met One
MODEL: 014A
SERIAL #: Invisible
START TIME: 10:00
END TIME: 12:00

MULTIPLIER (rpm to m/s): 0.026662
OFFSET (rpm to m/s): 0.44704
STARTING TORQUE (gm-cm): 0.10
STARTING THRESHOLD LIMIT: 0.28 g-cm
STARTING THRESHOLD RESULTS: PASS
VISUAL CONDITION: Good

SENSOR RESPONSE TEST

Simulated Rotation (rpm)	Simulated Wind Speed (m/s)	Sensor Response (m/s)	Difference (m/s)	Percent Difference (%)*
0	0.00	0.00	0.00	NA
200	5.78	5.64	NA	-2.41
300	8.45	8.45	NA	0.05
400	11.11	11.65	NA	4.84
500	13.78	13.67	NA	-0.78
1000	27.11	27.65	NA	2.00
1500	40.44	40.45	NA	0.02
1700	45.77	45.75	NA	-0.05

AUDIT RESULTS

Mean Absolute Difference (WS $\leq$ 5 m/s):	0.00	PASS
Mean Absolute Percent Difference (WS > 5 m/s):	1.45	PASS

* Percent Difference is calculated as 100*(Simulated Wind Speed - Sensor Response)/Sensor Response

Comments:

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

WIND DIRECTION SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 3/22/2011

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

WIND DIRECTION SENSOR INFORMATION

MAKE: Met One
MODEL: 024A
SERIAL #: Invisible
START TIME: 10:00
END TIME: 12:00

STARTING TORQUE (gm-cm): 8.0
STARTING THRESHOLD LIMIT: 8.64 gm-cm
STARTING THRESHOLD RESULTS: PASS
VISUAL CONDITION: Good

ALIGNMENT TEST

Known Direction (Deg. TRUE)	AS FOUND Sensor Response (Degrees)	Difference (Degrees)
31.0	34.2	-3.2
205.0	203.3	1.7
239.0	239.6	-0.6
329.0	331.6	-2.6

MEAN ABSOLUTE DIFFERENCE: 2.0
RESULTS (PASS/FAIL): PASS

AS LEFT Sensor Response (Degrees)	Difference (Degrees)
33.4	2.4
203.7	-1.3
239.1	0.1
331.6	2.6

MEAN ABSOLUTE DIFFERENCE: 1.6
RESULTS (PASS/FAIL): PASS

SENSOR RESPONSE TEST

True Direction (Degrees)	Sensor Response (Degrees)	Difference (Response - True) (Degrees)
10	8.3	-1.7
40	38.9	-1.1
70	69.3	-0.7
100	100.8	0.8
130	130.6	0.6
160	160.3	0.3
190	190.4	0.4
220	220.1	0.1
250	250.9	0.9
280	280.6	0.6
310	309.7	-0.3
340	339.7	-0.3

AUDIT RESULTS

Mean Absolute Difference: 0.7 PASS

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

DELTA-T SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 3/22/11

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

TEMPERATURE SENSOR INFORMATION
10-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15047
START TIME: 9:50
END TIME: 11:00

REFERENCE THERMOMETER INFORMATION
MAKE: Fisher Scientific
MODEL: 15-077-8
SERIAL #: 21069755
LAST CALIBRATION DATE: 08/23/10

2-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15046
START TIME: 9:50
END TIME: 11:00

MAKE: Fisher Scientific
MODEL: 15-077-7
SERIAL #: 80438125
LAST CALIBRATION DATE: 12/09/10

TEST 1: BOTH PROBES IN SAME BATH

COLD TEMPERATURE BATH TEST

Reference Sensor (°C)	10 m Field Sensor (°C)	2 m Field Sensor (°C)	Absolute Difference (10 m - Ref) (°C)	Absolute Difference (2 m - Ref) (°C)	Absolute Difference (10 m - 2 m) (°C)
0.2	0.2	0.1	0.0	0.1	0.1
0.0	0.1	0.1	0.1	0.1	0.0
0.0	0.1	0.1	0.1	0.1	0.0
0.0	0.1	0.1	0.1	0.1	0.0
0.0	0.1	0.1	0.1	0.1	0.0

AUDIT RESULTS

	10 m - Ref	2 m - Ref	10 m - 2 m
Mean Absolute Difference	0.1	0.1	0.0
	PASS	PASS	PASS

AMBIENT TEMPERATURE BATH TEST

Reference Sensor (°C)	10 m Field Sensor (°C)	2 m Field Sensor (°C)	Absolute Difference (10 m - Ref) (°C)	Absolute Difference (2 m - Ref) (°C)	Absolute Difference (10 m - 2 m) (°C)
13.2	13.3	13.3	0.1	0.1	0.0
13.3	13.3	13.3	0.0	0.0	0.0
13.3	13.4	13.3	0.1	0.0	0.1
13.3	13.4	13.4	0.1	0.1	0.0
13.3	13.4	13.4	0.1	0.1	0.0

AUDIT RESULTS

	10 m - Ref	2 m - Ref	10 m - 2 m
Mean Absolute Difference	0.1	0.1	0.0
	PASS	PASS	PASS

HOT TEMPERATURE BATH TEST

Reference Sensor (°C)	10 m Field Sensor (°C)	2 m Field Sensor (°C)	Absolute Difference (10 m - Ref) (°C)	Absolute Difference (2 m - Ref) (°C)	Absolute Difference (10 m - 2 m) (°C)
43.3	43.3	43.3	0.0	0.0	0.0
43.3	43.3	43.3	0.0	0.0	0.0
43.3	43.3	43.3	0.0	0.0	0.0
43.2	43.3	43.3	0.1	0.1	0.0
43.2	43.3	43.3	0.1	0.1	0.0

AUDIT RESULTS

	10 m - Ref	2 m - Ref	10 m - 2 m
Mean Absolute Difference	0.0	0.0	0.0
	PASS	PASS	PASS

APPLIED ENVIRONMENTAL CONSULTANTS
METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

DELTA-T SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 3/22/11

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

TEMPERATURE SENSOR INFORMATION
10-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15047
START TIME: 9:50
END TIME: 11:00

REFERENCE THERMOMETER INFORMATION
MAKE: Fisher Scientific
MODEL: 15-077-8
SERIAL #: 21069755
LAST CALIBRATION DATE: 08/23/10

2-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15046
START TIME: 9:50
END TIME: 11:00

MAKE: Fisher Scientific
MODEL: 15-077-7
SERIAL #: 80438125
LAST CALIBRATION DATE: 12/09/10

TEST 2: PROBES IN DIFFERENT BATHS

AMBIENT AND COLD TEMPERATURE BATHS - FIRST READING

Reference Sensor Ambient (°C)	10 m Field Sensor Ambient (°C)	Reference Sensor Cold (°C)	2 m Field Sensor Cold (°C)	Absolute Difference (Ambient -Cold Ref. Sensor)	Absolute Difference (10 m - 2 m) (°C)
13.4	13.4	0.0	0.1	13.4	13.3
13.3	13.4	0.0	0.1	13.3	13.3
13.3	13.4	0.0	0.0	13.3	13.3
13.4	13.4	0.0	0.0	13.4	13.3
13.4	13.4	0.0	0.1	13.4	13.3

AMBIENT AND COLD TEMPERATURE BATHS - SECOND READING

Reference Sensor Ambient (°C)	2 m Field Sensor Ambient (°C)	Reference Sensor Cold (°C)	10 m Field Sensor Cold (°C)	Absolute Difference (Ambient -Cold Ref. Sensor)	Absolute Difference (10 m - 2 m) (°C)
13.3	13.3	0.1	0.2	13.2	13.2
13.3	13.3	0.1	0.2	13.2	13.2
13.3	13.3	0.1	0.1	13.2	13.2
13.3	13.3	0.2	0.2	13.1	13.2
13.3	13.3	0.2	0.2	13.1	13.2

AUDIT RESULTS

	10 m Ambient - 2 m Cold	10 m Cold - 2 m Ambient	Adjustment for Bath Temp Differences *	Absolute Difference **
Mean Absolute Difference	13.3	13.2	0.2	-0.03
				PASS

* Represents change in bath temperatures between first reading and second reading based on average reference sensor differences in first reading minus average reference sensor differences in second reading.

** Adjusted for temperature variations that occurred in baths between first and second readings.

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

TEMPERATURE SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 3/22/11

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

TEMPERATURE SENSOR INFORMATION

MAKE: Campbell Scientific
MODEL: HMP50-L
SERIAL #: D2230030
START TIME: 11:00
END TIME: 11:45

REFERENCE THERMOMETER INFORMATION

MAKE: Fisher Scientific
MODEL: 15-077-B
SERIAL #: 21069755
LAST CALIBRATION DATE: 08/23/10

AMBIENT TEMPERATURE BATH TEST

Reference Sensor (°C)	Field Sensor (°C)	Difference (Field - Ref) (°C)
12.1	11.9	-0.2
12.0	11.9	-0.1
12.0	11.8	-0.2
11.7	11.8	0.1
11.7	11.7	0.0

AUDIT RESULTS

Mean Absolute Difference: 0.1

PASS

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

RELATIVE HUMIDITY SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 3/22/11

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

RELATIVE HUMIDITY SENSOR INFORMATION

MAKE: Campbell Scientific
MODEL: HMP50-L
SERIAL #: D2230030
START TIME: 9:50
END TIME: 11:20

REFERENCE SENSOR INFORMATION

MAKE: Extech Instruments
MODEL: RH390
SERIAL #: H075361
LAST CALIBRATION DATE: 7/3/2010

RELATIVE HUMIDITY

Point Number	Reference Sensor Relative Humidity (%)	Field Sensor Relative Humidity (%)	Percent Difference (%)
1	52.4	48.3	4.1
2	53.6	45.2	8.4
3	55.5	47.7	7.8
4	49.7	45.5	4.2
5	49.8	42.6	7.2

AUDIT RESULTS

Mean Difference: 6.3 PASS

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

BAROMETRIC PRESSURE SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 3/22/11
START TIME: 9:50
END TIME: 11:00

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

BAROMETRIC PRESSURE SENSOR
MAKE: Campbell Scientific
MODEL: CS100
SERIAL #: 3629397

REFERENCE SENSOR
MAKE: Druck
MODEL: DPI 705
SERIAL #: 70510462
LAST CALIBRATION DATE: 06/07/10

Druck Pressure (in Hg)	Sensor Pressure (in Hg)	Difference Sensor-Ultimeter (in Hg)	Absolute Difference Sensor-Ultimeter (in Hg)
27.06	27.02	-0.04	0.04
27.07	27.02	-0.05	0.05
27.07	27.02	-0.05	0.05
27.07	27.02	-0.05	0.05
27.06	27.02	-0.04	0.04

Mean Absolute Difference: 0.05
Results (Pass/Fail): PASS

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

SOLAR RADIATION SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 3/22/11
START TIME: 10:00
END TIME: 14:00

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

SOLAR RADIATION SENSOR
MAKE: LI-COR
MODEL: LI200X
SERIAL #: Invisible

REFERENCE SENSOR
MAKE: LI-COR
MODEL: LI200X
SERIAL #: PY69180
LAST CALIBRATION DATE: 05/18/10

Time (Hourly Ending)	Reference Sensor (W/m2)	Field Sensor (W/m2)	Difference (W/m2)	Absolute Difference (W/m2)	Difference (%)
10	576.6	566.2	-10.40	10.40	1.80%
11	786.0	758.7	-27.30	27.30	3.47%
12	872.0	844.0	-28.00	28.00	3.21%
13	967.0	934.0	-33.00	33.00	3.41%
14	749.0	720.4	-28.60	28.60	3.82%

Mean Absolute Difference: 3.14%
Results (Pass/Fail): PASS

APPLIED ENVIRONMENTAL CONSULTANTS
METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

EVAPORATION GAUGE AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 3/22/11

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

SENSOR INFORMATION

MAKE: Novalynx
MODEL: 255-100
SERIAL #: 527
START TIME: 11:00
END TIME: 13:00

SENSOR CONDITION: Good

EVAPORATION GAUGE VOLUME TEST					
Water Application Sequence	Volume of Water (l)	Equivalent Measurement (in)	Count Recorder (in)	Difference (in)	Difference (%)
1	30.00	-1	-0.95	0.05	5.00%
2	30.00	-1	-0.92	0.08	8.00%
			Mean Difference:	0.07	6.50%
					PASS

APPLIED ENVIRONMENTAL CONSULTANTS
METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

PRECIPITATION GAUGE AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 3/22/11

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

SENSOR INFORMATION

MAKE: Met One
MODEL: 970
SERIAL #: 860-B
START TIME: 10:00
END TIME: 14:00

SENSOR CONDITION: Good

PRECIPITATION SENSOR VOLUME TEST					
Water Application Sequence	Volume of Water (l)	Equivalent Measurement (in)	Count Recorder (in)	Difference (in)	Difference (%)
1	0.946	1.00	0.99	-0.01	-1.00%
2	0.946	1.00	1.04	0.04	4.00%
				Mean Difference:	1.50%
					PASS

APPENDIX B-EQUIP
AUDIT EQUIPMENT CALIBRATION INFORMATION

CERTIFICATE OF ACCURACY

REPORT # C[illegible] CUSTOMER [illegible] Environmental Corp. SALES ORDER 33463

This is to certify that Data Instruments/Waters Torque Watch Gauge, SN [illegible] has been inspected to ± 10 % of full scale reading and found accurate.

The weight standards used for this calibration are traceable to NIST Report # 42587.

Test Equipment # [illegible] Accuracy of Standard ±1% Calibration Procedure [illegible] Rev. C

TORQUE WATCH GAUGE CALIBRATION CHART
DATA INSTRUMENTS/WATERS
100 DISCOVERY WAY
ACTON, MA 01720

MODEL 316-3M SERIAL NUMBER H9NN P.O. # 708-15

CALIBRATED BY [illegible] DATE 12/30/97 APPROVED [illegible]

TEMPERATURE [illegible] °F RELATIVE HUMIDITY % [illegible]

CALIBRATION POINT IN Cm Cm	ACTUAL WATCH READING	
	CW	CCW
See Attached Data		

TORQUE WATCH GAUGE WARRANTY

Each Torque Watch Gauge is designed, manufactured and scientifically tested in accordance with the highest standards of good engineering practice and is warranted by the manufacturer to be free of original defects of design, material, and workmanship. It is further warranted that, at the time of manufacture and test, each Torque Watch Gauge was within a specified accuracy tolerance. The liability of the manufacturer is limited to repairing or replacing, at its option, any defective Torque Watch Gauge, or part thereof, that is returned to the manufacturer's plant, transportation charges prepaid, within a period of ninety days from the date of original shipment.

The manufacturer maintains an adequate service facility to handle normal repairs and recalibration of Torque Watch Gauges. Routing repair and recalibration service, subsequent to the expiration of the warranty period, is handled on a flat rate basis per Gauge for Gauges that have not been damaged or abused through negligence and/or altered or repaired outside the manufacturer's plant.

OW RANGE TORQUE WATCH DIAL SETTINGS vs. OUTPUT OF LOW RANGE STANDARD

MODEL: 166-3M SERIAL NUMBER: 4944 Units = gm cm Accuracy = 10 % FS

Set Dial To	Low Limit	CW Rdg	CCW Rdg	High Limit
0.0	-.01	0.00	0.00	.01
.2	0.00	.18	.08	.40
.4	.20	.35	.32	.60
.6	.40	.54	.54	.80
.8	.60	.74	.72	1.00
1.0	.80	.95	.92	1.20
1.2	1.00	1.19	1.13	1.40
1.4	1.20	1.41	1.32	1.60
1.6	1.40	1.60	1.54	1.80
1.8	1.60	1.80	1.73	2.00
2.0	1.80	1.99	2.01	2.20

Max pos error (% FS) = .5 % at 1.400
Max neg error (% FS) = -5.8 % at .200

Torque Watch is a: PASS

Meteorological Instruments

YOUNG

Certificate of Calibration and Testing

Test Unit:		
Model:	18802	Serial Number: CA02198
Description:	Anemometer Drive - 200 to 15,000 Rpm	
	- Comprised of Models 18820A Control Unit & 18830A Motor Assembly	

R.M. Young Company certifies that the above equipment has been inspected and calibrated using standards whose accuracies are traceable to the National Institute of Standards and Technologies (NIST).

Nominal Motor Rpm	27106D Output Frequency Hz (1)	Calculated Rpm (2)	Indicated Rpm (3)
300	50	300	300
2700	450	2700	2700
5100	850	5100	5100
7500	1250	7500	7500
10,200	1700	10200	10200
12,600	2100	12600	12600
15,000	2500	15000	15000
☒ Clockwise and Counterclockwise rotation verified			

(1) Measured frequency output of RM Young Model 27106D standard anemometer attached to motor shaft

(2) 27106D produces 10 pulses per revolution of the anemometer shaft

(3) Indicated on the Control Unit LCD display

*Indicates out of tolerance

Traceable frequency meter used in calibration BK1823

Date of inspection 2/7/01

Tested By [signature]

R.M. YOUNG COMPANY 2801 Aero Park Drive, Traverse City, Michigan 49686 USA

Tel: 231-946-3980 Fax: 231-946-4772 Email: met.sales@youngusa.com

MILLER & WEBER, INC.
Precision Thermometers
1637 George Street
Ridgewood, NY 11385-5342
(718) 821-7110

MANUFACTURERS CERTIFICATE OF CALIBRATION

This is to certify that the thermometer listed below has been tested in our most modern calibration laboratory against a *National Institute of Standards and Technology certified master standard. All temperatures in this report are based on the International Temperature Scale of 1990 (ITS-90).

Thermometer Description: ASTM 63F 18/89F .2 Degree F

Thermometer Serial No.: 1F9975

READING OF THERMOMETER	STANDARD TEMPERATURE	CORRECTION
20.02	20.00	-0.02
32.00	32.00	0.00
50.00	50.00	0.00
70.00	70.00	0.00
87.98	88.00	0.02

Estimated uncertainties in the above corrections do not exceed 0.05 degree up to 89 degrees F.

If no sign is given on the correction, the true temperature is higher than the indicated temperature. If the sign given is negative, the true temperature is lower than the indicated temperature.

The tabulated corrections apply provided the ice-point reading, taken after exposure for not fewer than three days to a temperature of about 23 degrees C (73 degrees F), is as shown above. If the ice-point reading is found to be higher (or lower) than stated, all other readings will be higher (or lower) by the same amount. If the thermometer is used at a given temperature shortly after being heated to a higher temperature, an error of 0.01 degree or less for each 10 degree difference between the two temperatures may be introduced. These corrections apply if the thermometer is used in its upright position.

NIST Serial No.: 442140 Date Certified: MAY 14, 1991

NIST Report No.: 209621 Certified By: CHARLES J. MILLER

Standard No.: 409815 Approved By: Deanne M. Emery

*(Formerly National Bureau of Standards)

FROM VIC CROSNAL (FILTEMI

PURCHASED

THERMOMETER CALIBRATION LOG

Date: 8/23/2010
Thermometer: Fisher Scientific 21069755
Standard Thermometer: Miller & Weber 1F9975 NIST Traceable (T_S)

T_S (°F)	T_S (°C)	T_X (°C)	T_X-T_S (°C)
32.2	0.1	0.1	0.0
82.4	28.0	27.8	-0.2
107.7	42.1	42.3	0.2
Mean Difference			0.0

Regression Equation (°C): $T_X = a+b\ (T_S)$

Intercept (a):	-0.08894
Slope (b):	1.00347
Correlation Coefficient:	0.99995

Calibration complies with ISO 9001 ISO/IEC 17025 AND ANSI/NCSL Z540-1

ACCREDITED

Calibration Certificate No. 1750.01

Cert. No.: 4000-3330904

Traceable® Certificate of Calibration for Digital Thermometer

Manufactured for and distributed by: Fisher Scientific, P.O. Box 1768, Pittsburgh, PA 15230

Instrument Identification:

Applied Environmental, 1553 W. Elna Rae, Attn: Mike Sonenberg, Tempe, AZ 85281 U.S.A. (RMA:958835)

ID: 278a Model: 15-077-8 S/N: 80438125 Manufacturer : Control Company

Model: 15-077-7 S/N: 80438125

Standards/Equipment:

Description	Serial Number	Due Date	NIST Traceable Reference
Temperature Calibration Bath TC-179	A45240		
Thermistor Module	A27129	10/22/11	1000287167
Temperature Probe	5202	3/11/11	B0310050
Temperature Calibration Bath TC-231	A79341		
Thermistor Module	A27129	10/22/11	1000287167
Temperature Probe	157	11/23/11	B0A19013
Temperature Calibration Bath TC-218	A73332		
Thermistor Module	A17118	1/19/11	A9B21010
Temperature Probe	128	2/10/11	A9B23079
Temperature Calibration Bath TC-256	B01375		
Thermistor Module	A17118	1/19/11	A9B21010
Temperature Probe	3039	12/10/10	A9B23080-1

Certificate Information:

Technician: 68 Procedure: CAL-06 Cal Date: 12/09/10 **Cal Due: 12/09/11**

Test Conditions: 22.0°C 36.0 %RH 1025 mBar

Calibration Data:

Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±U	TUR
°C	-0.001	0.020	Y	-0.001	0.002	Y	-0.051	0.049	0.013	3.8:1
°C	25.001	25.007	Y	25.001	24.999	Y	24.951	25.051	0.013	3.8:1
°C	60.002	60.005	Y	60.002	60.001	Y	59.952	60.052	0.018	2.8:1
°C	100.002	100.014	Y	100.002	99.995	Y	99.952	100.052	0.013	3.8:1

This Instrument was calibrated using Instruments Traceable to National Institute of Standards and Technology.

A Test Uncertainty Ratio of at least 4:1 is maintained unless otherwise stated and is calculated using the expanded measurement uncertainty. Uncertainty evaluation includes the instrument under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainty represents an expanded uncertainty using a coverage factor k=2 to approximate a 95% confidence level. In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated. This certificate shall not be reproduced except in full, without written approval of Control Company.

Nominal=Standard's Reading; As Left=Instrument's Reading; In Tol=In Tolerance; Min/Max=Acceptance Range; ±U=Expanded Measurement Uncertainty; TUR=Test Uncertainty Ratio; Accuracy=±(Max-Min)/2; Min = Nominal(Rounded) - Tolerance; Max = Nominal(Rounded) + Tolerance; Date=MM/DD/YY

Nicol Rodriguez, Quality Manager

Wallace Berry, Technical Manager

Maintaining Accuracy:

In our opinion once calibrated your Digital Thermometer should maintain its accuracy. There is no exact way to determine how long calibration will be maintained. Digital Thermometers change little, if any at all, but can be affected by aging, temperature, shock, and contamination.

Recalibration:

For factory calibration and re-certification traceable to National Institute of Standards and Technology contact Control Company.

CONTROL COMPANY 4455 Rex Road Friendswood, TX 77546 USA
Phone 281 482-1714 Fax 281 482-9448 service@control3.com www.control3.com

Control Company is an ISO 17025:2005 Calibration Laboratory Accredited by (A2LA) American Association for Laboratory Accreditation, Certificate No. 1750.01.
Control Company is ISO 9001:2008 Quality Certified by (DNV) Det Norske Veritas, Certificate No. CERT-01805-2006-AQ-HOU-ANAB.
International Laboratory Accreditation Cooperation (ILAC) - Multilateral Recognition Arrangement (MRA).

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ISO 9001 Certified Extech Instruments Corporation • 285 Bear Hill Road • Waltham, MA 02451-1064

Certificate of Calibration

Certificate Number: 39895
Document Number: 29610

Customer Details:

Customer Name: JBR ENVIRONMENTAL

Instrument Details:

Manufacturer:	EXTECH INSTRUMENTS	**Calibration Date:**	July 3, 2010
Description:	DIGITAL PSYCHROMETER	**Calibration Due:**	July 3, 2011
Model Number:	RH390	**Cal. Interval:**	12 MONTHS
Serial Number:	H075361	**As Received:**	IN TOLERANCE
Equip. ID Number:	N/A		

Environmental Details:

Temperature: 21 Deg. +/- 5 C **Relative Humidity:** 40 %+/- 15 %

Procedures Used:

Calibration Procedure: EICMRH390-CP

Certification

Extech Instruments certifies that the instrument listed above meets the specifications of the manufacturer at the completion of its calibration. Standards used are traceable to the National Institute of Standards and Technology (NIST), or have been derived from accepted values, natural physical constants, or through the use of the ratio method of self-calibration techniques. Methods used are in accordance with ISO 10012-1 and ANSI/NCSL Z540-1-1994. This certificate is not to be reproduced other than in full, except with prior written approval of Extech Instruments Corporation. All the calibration standards used have an accuracy ratio of 4:1 or better, unless otherwise stated.

Technicians Notes:

Technician: TERI KING

Approved By:

Phone: 781.890.7440 ext 210 • Fax: 781.890.3957 • E-mail:

CALIBRATION CERTIFICATE
POSITIVE PRESSURE

AS FOUND / AS LEFT DATA

UNIT UNDER TEST (UUT)

Manufacturer	: Druck
Type Number	: DPI 705
Serial Number	: 70510462
Sales Order Number	: 234225
Parameter Range	: 0.50 to 30.00 psi abs
Calibration Date	: 07 June 2010
Calibrated By	: Rodney Simmons

CALIBRATOR INFORMATION

Calibration Instrument	: Ruska 7010
Serial Number	: PG-249
(*1) Calibrated Against	: CS-134 / NIST# 836/261146-99
Pressure Medium	: Nitrogen
Uncertainty	: 75.0 ppm

AMBIENT CONDITIONS

Ambient Temperature (°C) : 23.07

PERFORMANCE DATA

Actual Applied Value psi	Unit Under Test Reading psi (*2)	Unit Under Test Deviation (*3)	Permissible Deviation (± 0.1 % fs) (*4)
0.500	0.514	+0.047 % fs	± 0.1 % fs
6.000	6.014	+0.047 % fs	± 0.1 % fs
12.000	12.015	+0.050 % fs	± 0.1 % fs
18.000	18.018	+0.060 % fs	± 0.1 % fs
24.000	24.016	+0.053 % fs	± 0.1 % fs
30.000	30.016	+0.053 % fs	± 0.1 % fs
15.000	15.016	+0.053 % fs	± 0.1 % fs
0.500	0.514	+0.047 % fs	± 0.1 % fs

COMMENTS

Certified by: 

Date: 06/08/2010

NOTES

(*1) Traceable to NIST. Calibrated in accordance with ISO9000 Quality Standards

(*2) Actual recorded values. For specification, see Permissible Deviation column.

(*3) Deviation calculated from UUT Reading minus Actual Applied Value.

(*4) Non linearity, hysterisis and repeatability.

GE Industrial Sensing, 10311 Westpark Dr., Houston, TX 77042

CERTIFICATE of CALIBRATION for LI-COR SENSOR

Pyranometer
Model Number: LI-200

Serial Number: **PY69180**

Calibration Date: **May 18, 2010**
Manufacture Date: **May 18, 2010**

Calibration Constant:

Output: **95.06** microamps per 1000 watts m^{-2}

For use with LI-COR handheld meters:

Multiplier: **-10.52** watts m^{-2} per microamp

For use with LI-COR 2220 (147 ohm) Millivolt Adapter:

Multiplier: **-71.56** watts m^{-2} per millivolt

If this is an SL sensor:

Multiplier: **-100.0** watts m^{-2} per millivolt

IMPORTANT: Read the appropriate instruction manual (http://www.licor.com/TSM) before using this sensor.

IMPORTANT: It is recommended that sensors be recalibrated every two years.

Calibration Technician: Lauren Oldham

Calibration standard used: Eppley Model PSP, serial number 32758F3.
Calibration traceable to the World Radiation Reference at the World Radiation Center in Davos, Switzerland through Eppley Laboratory Inc.

LI-COR® Biosciences

LI-COR Biosciences ● Environmental ● 4421 Superior Street ● P.O Box 4425 ● Lincoln, NE 68504 USA
Phone: (1) 402-467-3576 ● Fax: 402-467-2819 ● Toll-free: 800-447-3576 (USA & Canada)
envsales@licor.com ● envsupport@licor.com ● www.licor.com
Manual: http://www.licor.com/TSM

AEC'S REFERENCE SENSOR