Resolution Copper Mine Monitoring Sites

Summary of Meteorological Data Collected during the Third Quarter 2010 Superior, Arizona

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TABLE OF CONTENTS

Page

1. INTRODUCTION 1

2. MONITORING PROGRAM 4

3. METEOROLOGICAL DATA SUMMARIES 5
   - 3.1 Wind Speed/Wind Direction 5
   - 3.2 Differential Temperature 8
   - 3.3 Temperature 10
   - 3.4 Relative Humidity 11
   - 3.5 Barometric Pressure 12
   - 3.6 Solar Radiation 13
   - 3.7 Pan Evaporation 14
   - 3.8 Precipitation 15

4. DATA RECOVERY 17

5. QUALITY ASSURANCE 19
   - 5.1 Meteorological Measurements 19
     - 5.1.1 Review of Data 19
     - 5.1.2 Audit of Field Sensors 19

APPENDIX A: METEOROLOGICAL DATA
METEOROLOGICAL MEASUREMENTS KC1 SITE
METEOROLOGICAL MEASUREMENTS KC2 SITE

APPENDIX B: METEOROLOGICAL PERFORMANCE AUDIT REPORT

LIST OF FIGURES

Page

Figure 1.1 Map showing location of proposed Resolution Copper Mine (denoted by A) in Pinal County, Arizona. 2

Figure 1.2 Map showing locations of KC1 and KC2 monitoring sites. 3

Figure 3.1 Wind rose for the KC1 (East Plant) monitoring site for the Third Quarter 2010. 6

Figure 3.2 Wind rose for the KC2 (West Plant) monitoring site for the Third Quarter 2010. 7

LIST OF TABLES

Table 2.1 Listing of Meteorological Equipment at KC1 and KC2 4

Table 3.1 KC1: Monthly Wind Speed (m/s) Summary for the Third Quarter 2010 5

Table 3.2 KC2: Monthly Wind Speed (m/s) Summary for the Third Quarter 2010 5

Table 3.3 KC1: Monthly Differential Temperature Summary for the Third Quarter 2010 8

Table 3.4 KC2: Monthly Differential Temperature Summary for the Third Quarter 2010 9

Table 3.5 KC1: Monthly Temperature (°C) Summary for the Third Quarter 2010 10

Table 3.6 KC2: Monthly Temperature (°C) Summary for the Third Quarter 2010 10

Table 3.7 KC1: Monthly Relative Humidity (%) Summary for the Third Quarter 2010 11

Table 3.8 KC2: Monthly Relative Humidity (%) Summary for the Third Quarter 2010 11

Table 3.9 KC1: Monthly Barometric Pressure (in Hg) Summary for the Third Quarter 2010 12

Table 3.10 KC2: Monthly Barometric Pressure (in Hg) Summary for the Third Quarter 2010 12

Table 3.11 KC1: Monthly Solar Radiation (watts/m^2) Summary for the Third Quarter 2010 13

Table 3.12 KC2: Monthly Solar Radiation (watts/m^2) Summary for the Third Quarter 2010 13

Table 3.13 KC1: Monthly Evaporation (inches) Summary for the Third Quarter 2010 14

Table 3.14 KC2: Monthly Evaporation (inches) Summary for the Third Quarter 2010 14

Table 3.15 KC1: Monthly Precipitation (inch) Summary for the Third Quarter 2010 15

Table 3.16 KC2: Monthly Precipitation (inch) Summary for the Third Quarter 2010 16

Table 4.1 Monitoring Site KC1 Data Completeness for the Third Quarter 2010 17

Table 4.2 Monitoring Site KC2 Data Completeness for the Third Quarter 2010 18

Table 5.1 Meteorological Data Screening Criteria 20

Table 5.2 KC1 Monitoring Site: Performance Audit Result Summary 21

Table 5.3 KC2 Monitoring Site: Performance Audit Result Summary 22

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 third quarter of 2010 (July, August and September).

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.

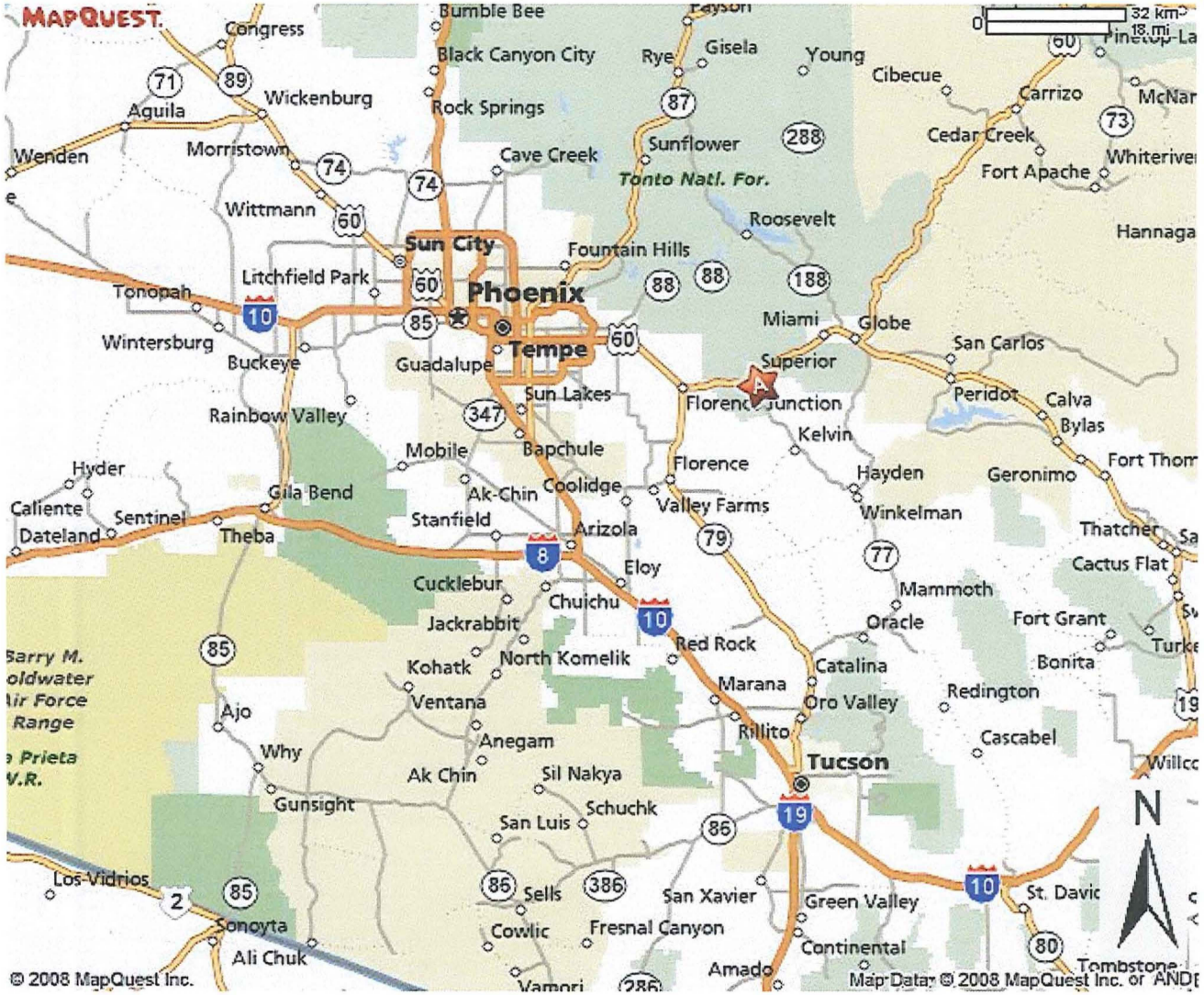


Figure 1.1 Map showing location of proposed Resolution Copper Mine (denoted by A) in Pinal County, Arizona.



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

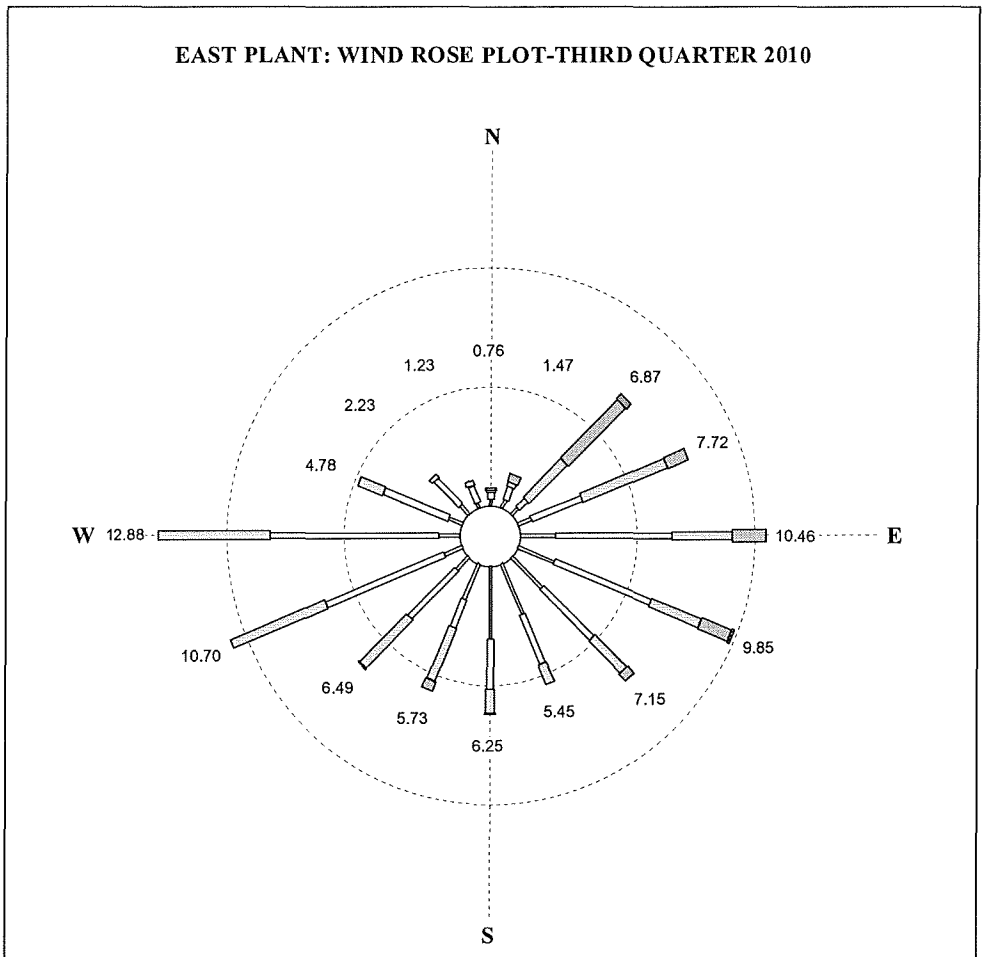
Wind speed statistics for the quarter are presented in Tables 3.1 and 3.2. Wind roses from each monitoring site for the quarter are presented in Figures 3.1 and 3.2.

Table 3.1 KC1: Monthly Wind Speed (m/s) Summary for the Third Quarter 2010

	Monthly Avg.	Maximum Hourly Avg.	Minimum Hourly Avg.
July	3.0	9.8	0.0
August	2.7	8.5	0.0
September	2.8	8.3	0.0

Table 3.2 KC2: Monthly Wind Speed (m/s) Summary for the Third Quarter 2010

	Monthly Avg.	Maximum Hourly Avg.	Minimum Hourly Avg.
July	3.3	12.5	0.0
August	3.0	10.3	0.1
September	2.9	9.1	0.0



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	0.28	0.28	0.09	0.09	0.00	0.00
NNE	0.38	0.57	0.19	0.33	0.00	0.00
NE	0.38	0.47	2.27	3.46	0.28	0.00
ENE	0.62	2.27	3.88	0.95	0.00	0.00
E	1.47	4.97	2.60	1.42	0.00	0.00
ESE	1.66	4.45	2.27	1.37	0.09	0.00
SE	1.85	2.98	1.94	0.38	0.00	0.00
SSE	2.32	2.23	0.90	0.00	0.00	0.00

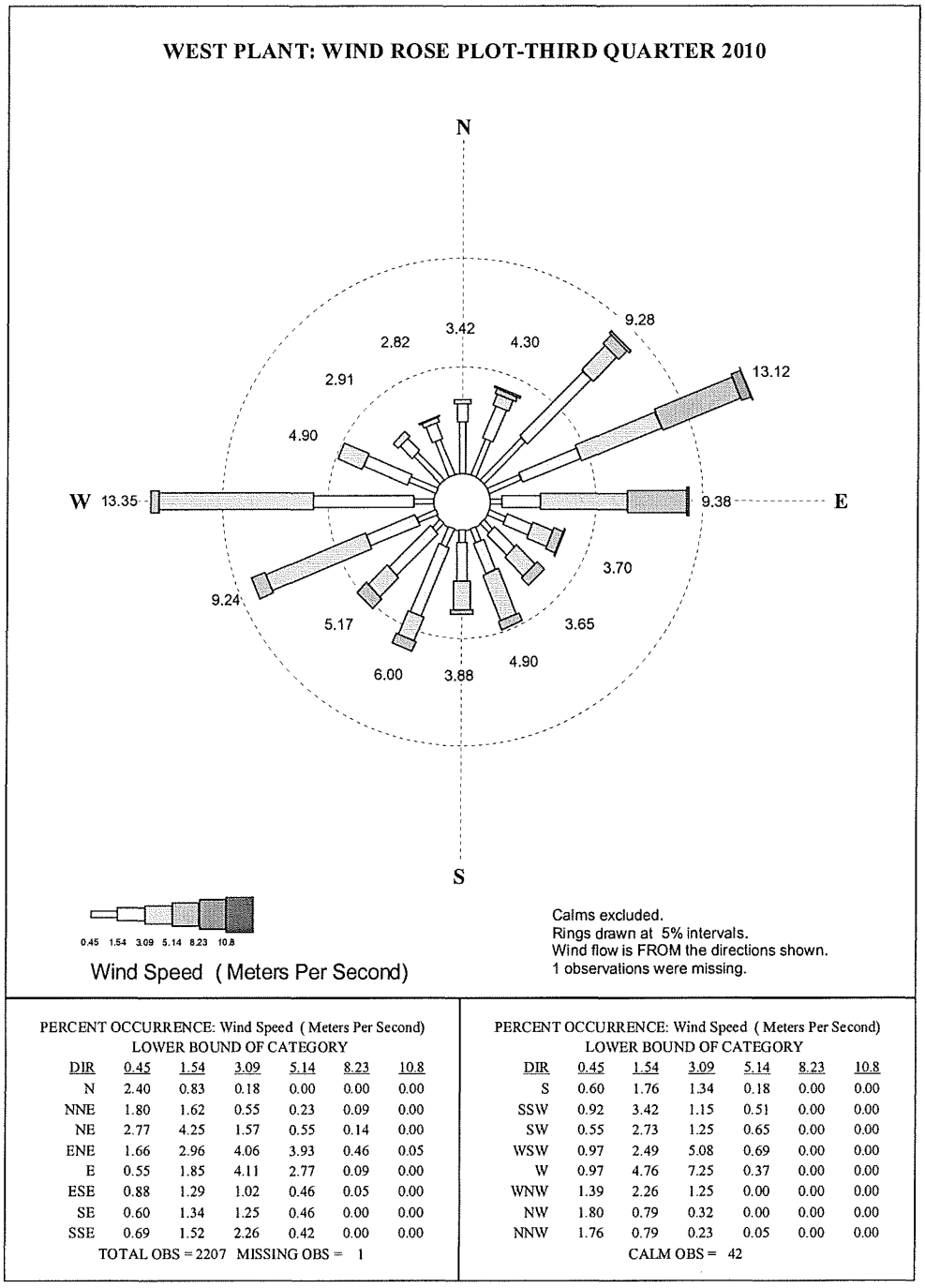
TOTAL OBS = 2206 MISSING OBS = 2

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	3.08	2.08	1.04	0.05	0.00	0.00
SSW	1.66	1.28	2.37	0.43	0.00	0.00
SW	0.76	2.84	2.84	0.05	0.00	0.00
WSW	0.85	5.45	4.40	0.00	0.00	0.00
W	0.95	7.20	4.73	0.00	0.00	0.00
WNW	0.66	2.98	1.14	0.00	0.00	0.00
NW	0.52	1.52	0.19	0.00	0.00	0.00
NNW	0.24	0.76	0.24	0.00	0.00	0.00

CALM OBS = 94

Figure 3.1 Wind rose for the KC1 (East Plant) monitoring site for the Third Quarter 2010.



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	2.40	0.83	0.18	0.00	0.00	0.00
NNE	1.80	1.62	0.55	0.23	0.09	0.00
NE	2.77	4.25	1.57	0.55	0.14	0.00
ENE	1.66	2.96	4.06	3.93	0.46	0.05
E	0.55	1.85	4.11	2.77	0.09	0.00
ESE	0.88	1.29	1.02	0.46	0.05	0.00
SE	0.60	1.34	1.25	0.46	0.00	0.00
SSE	0.69	1.52	2.26	0.42	0.00	0.00

TOTAL OBS = 2207 MISSING OBS = 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
S	0.60	1.76	1.34	0.18	0.00	0.00
SSW	0.92	3.42	1.15	0.51	0.00	0.00
SW	0.55	2.73	1.25	0.65	0.00	0.00
WSW	0.97	2.49	5.08	0.69	0.00	0.00
W	0.97	4.76	7.25	0.37	0.00	0.00
WNW	1.39	2.26	1.25	0.00	0.00	0.00
NW	1.80	0.79	0.32	0.00	0.00	0.00
NNW	1.76	0.79	0.23	0.05	0.00	0.00

CALM OBS = 42

Figure 3.2 Wind rose for the KC2 (West Plant) monitoring site for the Third Quarter 2010.

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 Third Quarter 2010

	Monthly Average Differential Temperature Per Hour of Day (°C) [a]					
	Nighttime Hours					
Month	19	20	21	22	23	24
July	-0.184	-0.029	0.019	0.070	0.111	0.111
August	-0.130	0.017	0.093	0.134	0.227	0.303
September	0.043	0.182	0.303	0.362	0.426	0.503
	1	2	3	4	5	6
July	0.125	0.143	0.124	0.107	0.152	0.123
August	0.262	0.267	0.285	0.233	0.310	0.288
September	0.464	0.450	0.468	0.488	0.437	0.425
	Daytime Hours					
Month	7	8	9	10	11	12
July	-0.111	-0.503	-0.732	-0.880	-0.982	-1.084
August	0.147	-0.290	-0.563	-0.740	-0.854	-0.965
September	0.284	-0.263	-0.665	-0.946	-1.050	-1.079
	13	14	15	16	17	18
July	-1.113	-1.054	-1.043	-0.859	-0.654	-0.466
August	-0.962	-0.999	-0.926	-0.728	-0.582	-0.367
September	-1.092	-1.089	-0.956	-0.791	-0.533	-0.221

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

Table 3.4 KC2: Monthly Differential Temperature Summary for the Third Quarter 2010

	Monthly Average Differential Temperature Per Hour of Day (°C) [a]					
	Nighttime Hours					
Month	19	20	21	22	23	24
July	-0.290	-0.011	0.110	0.162	0.221	0.237
August	-1.244	0.140	0.696	0.739	0.844	0.931
September	-0.077	0.645	1.064	1.211	1.196	1.274
	1	2	3	4	5	6
July	0.313	0.288	0.342	0.348	0.250	0.284
August	0.966	0.956	1.029	1.026	0.943	1.043
September	1.287	1.337	1.325	1.235	1.101	1.105
	Daytime Hours					
Month	7	8	9	10	11	12
July	0.101	-0.375	-0.788	-1.017	-1.173	-1.655
August	0.656	-1.362	-2.867	-4.045	-4.473	-5.479
September	0.871	-1.212	-3.192	-4.040	-4.010	-4.344
	13	14	15	16	17	18
July	-1.563	-1.514	-1.675	-1.457	-0.765	-0.505
August	-4.114	-3.414	-3.882	-4.330	-3.815	-2.435
September	-3.945	-2.851	-2.283	-2.654	-2.101	-1.360

[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 Third Quarter 2010

Month	Monthly Avg.	Maximum Daily Avg.	Minimum Daily Avg.	Maximum Hourly Avg.	Minimum Hourly Avg.
July	26.7	30.1	20.3	36.2	19.0
August	26.6	30.0	22.3	34.5	18.5
September	26.1	28.8	21.3	34.5	16.0

Table 3.6 KC2: Monthly Temperature (°C) Summary for the Third Quarter 2010

Month	Monthly Avg.	Maximum Daily Avg.	Minimum Daily Avg.	Maximum Hourly Avg.	Minimum Hourly Avg.
July	30.5	34.2	23.4	39.4	21.5
August	30.2	33.3	25.7	38.7	21.5
September	29.7	33.0	24.4	38.2	19.5

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 Third Quarter 2010

Month	Hour 04 Avg	Hour 10 Avg	Hour 16 Avg	Hour 22 Avg
July	53.3	42.1	36.2	47.1
August	54.5	41.8	31.3	46.1
September	37.0	30.4	21.3	27.7
Quarter	Max: 96.4		Min: 9.6	

Table 3.8 KC2: Monthly Relative Humidity (%) Summary for the Third Quarter 2010

Month	Hour 04 Avg	Hour 10 Avg	Hour 16 Avg	Hour 22 Avg
July	45.2	35.4	29.0	38.9
August	45.6	36.0	26.5	37.6
September	30.6	26.6	18.6	24.1
Quarter	Max: 93.6		Min: 9.2	

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 Third Quarter 2010

Month	Hour 04 Avg	Hour 10 Avg	Hour 16 Avg	Hour 22 Avg
July	25.76	25.80	25.74	25.76
August	25.77	25.82	25.75	25.77
September	25.76	25.80	25.73	25.75
Quarter	Max: 25.91		Min: 25.55	

Table 3.10 KC2: Monthly Barometric Pressure (in Hg) Summary for the Third Quarter 2010

Month	Hour 04 Avg	Hour 10 Avg	Hour 16 Avg	Hour 22 Avg
July	26.89	26.94	26.86	26.87
August	26.90	26.94	26.87	26.89
September	26.89	26.93	26.85	26.87
Quarter	Max: 27.05		Min: 26.67	

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 Third Quarter 2010

Month	Monthly Avg.	Maximum Daily Avg.	Minimum Daily Avg.	Maximum Hourly Avg.	Minimum Hourly Avg.
July	406.9	519.9	194.0	921.0	1.3
August	402.3	476.2	315.8	915.0	0.1
September	409.7	470.4	166.3	859.0	0.0

Note: All statistics based on daylight hours.

Table 3.12 KC2: Monthly Solar Radiation (watts/m^2) Summary for the Third Quarter 2010

Month	Monthly Avg.	Maximum Daily Avg.	Minimum Daily Avg.	Maximum Hourly Avg.	Minimum Hourly Avg.
July	394.1	491.7	190.4	934.0	0.9
August	389.5	443.6	298.5	893.0	0.1
September	344.4	395.5	138.5	890.0	0.0

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 Third Quarter 2010

Month	Maximum Daily	Minimum Daily	Average Daily	Total Monthly
July	1.053	0.062	0.466	14.435
August	0.511	0.151	0.341	10.577
September	0.861	0.257	0.392	9.399

Table 3.14 KC2: Monthly Evaporation (inches) Summary for the Third Quarter 2010

Month	Maximum Daily	Minimum Daily	Average Daily	Total Monthly
July	0.650	0.012	0.342	10.604
August	0.661	0.000	0.373	11.551
September	0.629	0.101	0.428	12.839

3.8 Precipitation

Precipitation events for the quarter are summarized in Tables 3.15 and 3.16. Precipitation at site KC1 was 3.08 inches in July, 1.46 inches in August and 0.70 inch in September. Precipitation at site KC2 was 2.58 inches in July, 1.11 inch in August and 0.48 inch in September.

Table 3.15 KC1: Monthly Precipitation (inch) Summary for the Third Quarter 2010

Month	Day	Precipitation (in)	Duration (hours)
July	2	0.02	1
	10	0.28	2
	14	0.06	3
	16	0.57	1
	18	0.02	2
	20	0.01	1
	21	0.02	1
	22	0.68	7
	24	0.07	4
	25	0.01	1
	27	0.02	1
	28	1.07	5
	30	0.10	4
	31	0.15	8
	Monthly Total	3.08	41
August	7	0.11	2
	16	0.03	2
	17	0.24	5
	21	0.69	3
	22	0.04	1
	24	0.02	2
	25	0.01	1
	27	0.05	2
	29	0.27	2
	Monthly Total	1.46	20
September	22	0.70	8
	Monthly Total	0.70	8
Quarter	**Total**	**5.24**	**69**

Table 3.16 KC2: Monthly Precipitation (inch) Summary for the Third Quarter 2010

Month	Day	Precipitation (in)	Duration (hours)
July	10	0.23	1
	14	0.02	1
	16	0.04	1
	21	0.11	2
	22	0.44	7
	23	0.01	1
	24	0.17	4
	28	1.19	3
	30	0.28	4
	31	0.09	3
	Monthly Total	2.58	27
August	7	0.06	1
	17	0.22	4
	20	0.02	1
	21	0.65	2
	22	0.05	1
	27	0.04	2
	29	0.07	1
	Monthly Total	1.11	12
September	6	0.09	2
	8	0.01	1
	22	0.38	10
	Monthly Total	0.48	13
Quarter	**Total**	**4.17**	**52**

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 7/27/10 for site KC1 and 7/26/10 for site KC2 due to instrument audits. The evaporation data were invalidated due to the precipitation and pan refills.

Table 4.1 Monitoring Site KC1 Data Completeness for the Third Quarter 2010

Parameters	July	August	September	Quarter
Wind Speed	99.7%	100%	100%	99.9%
Wind Direction	99.7%	100%	100%	99.9%
2-meter Temperature	99.7%	100%	100%	99.9%
10-meter Temperature	99.7%	100%	100%	99.9%
Temperature	100%	100%	100%	100%
Relative Humidity	100%	100%	100%	100%
Barometric Pressure	100%	100%	100%	100%
Solar Radiation	100%	100%	100%	100%
Evaporation	97.2%	98.4%	98.8%	98.1%
Precipitation	99.7%	100%	100%	99.9%

Table 4.2 Monitoring Site KC2 Data Completeness for the Third Quarter 2010

Parameters	July	August	September	Quarter
Wind Speed	99.9%	100%	100%	99.9%
Wind Direction	99.9%	100%	100%	99.9%
2-meter Temperature	99.9%	100%	100%	99.9%
10-meter Temperature	99.9%	100%	100%	99.9%
Temperature	100%	100%	100%	100%
Relative Humidity	100%	100%	100%	100%
Barometric Pressure	100%	100%	100%	100%
Solar Radiation	100%	100%	100%	100%
Evaporation	99.6%	99.6%	99.3%	99.5%
Precipitation	99.9%	100%	100%	99.9%

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 September 27 and 26, 2010, 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
	0.97 % (at speeds > 5 m/s)	Pass
Wind Direction	Starting Torque* = 3.0 gm-cm	Pass
	Mean Absolute Error:	
	Alignment = 2.1°	Pass
	Sensor = 1.40°	Pass
2-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.1 °C	Pass
	Upscale Bath = 0.1 °C	Pass
10-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.1 °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 = 2.1 %	Pass
Ambient Temperature	Mean Absolute Error = 0.2 °C	Pass
Barometric Pressure	Mean Absolute Error = 0.04 in-Hg	Pass
Solar Radiation	Mean Absolute Percent Error = 2.85 %	Pass
Evaporation	Mean Absolute Percent Error = 5.00 %	Pass
Precipitation	Mean Absolute Percent Error = 1.00 %	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* = 0.2 gm-cm	Pass
	Mean Absolute Error:	
	0.00 m/s (at speeds ≤ 5 m/s)	Pass
	1.50 % (at speeds > 5 m/s)	Pass
Wind Direction	Starting Torque* = 3.0 gm-cm	Pass
	Mean Absolute Error:	
	Alignment = 1.0°	Pass
	Sensor = 0.6°	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 = 0.06 °C	Pass
Relative Humidity	Mean Absolute Percent Error = 1.6 %	Pass
Ambient Temperature	Mean Absolute Error = 0.1 °C	Pass
Barometric Pressure	Mean Absolute Error = 0.03 in-Hg	Pass
Solar Radiation	Mean Absolute Percent Error = 2.89 %	Pass
Evaporation	Mean Absolute Percent Error = 3.00 %	Pass
Precipitation	Mean Absolute Percent Error = 3.00 %	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

JULY 2010

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
07/01/10	2.7	3.8	4.5	5.3	4.9	4.9	6.2	6.7	7.0	7.7	5.7	4.8	3.9	3.6	3.3	6.4	5.7	3.8	2.1	3.1	4.9	5.7	4.0	3.3	7.7	2.1	4.7
07/02/10	3.0	2.8	3.9	3.3	5.4	5.2	4.7	6.3	5.5	5.4	5.4	4.6	3.6	4.0	3.7	2.2	3.9	3.3	3.2	2.5	1.9	1.7	0.9	0.9	6.3	0.9	3.6
07/03/10	0.6	1.3	1.7	2.3	1.2	2.2	2.5	2.2	2.6	3.1	3.5	4.2	5.9	5.5	5.2	5.0	4.9	3.8	3.5	2.6	1.9	1.3	1.1	1.8	5.9	0.6	2.9
07/04/10	3.5	3.3	2.0	3.3	2.9	2.3	1.5	2.4	2.2	3.3	2.9	3.0	3.1	3.6	3.6	3.3	3.4	3.4	3.6	2.8	2.5	2.6	2.2	2.1	3.6	1.5	2.9
07/05/10	2.5	2.7	2.8	1.9	1.0	1.6	1.5	2.2	2.6	2.9	4.1	3.6	4.1	4.0	4.1	3.5	3.5	3.6	3.0	2.5	2.6	2.4	2.4	2.4	4.1	1.0	2.8
07/06/10	2.9	2.7	2.5	3.0	2.2	1.3	0.7	1.5	3.0	4.0	4.2	3.3	3.3	3.8	3.5	3.7	3.1	3.3	3.1	2.3	1.3	0.6	0.7	0.3	4.2	0.3	2.5
07/07/10	0.5	0.4	1.1	1.2	1.3	1.1	0.6	1.4	2.1	3.7	3.5	3.5	3.2	3.8	3.5	3.4	3.6	2.9	3.0	4.2	2.1	2.5	2.1	1.4	4.2	0.4	2.3
07/08/10	1.6	4.6	3.2	3.2	4.1	4.4	5.0	5.8	6.2	6.4	6.3	6.6	5.7	4.3	4.0	3.2	2.5	6.0	6.7	4.7	4.0	3.6	4.1	3.3	6.7	1.6	4.6
07/09/10	4.2	4.5	6.0	4.6	5.4	5.7	6.0	5.8	6.1	6.7	6.1	5.2	5.8	7.3	5.3	4.9	3.3	1.8	1.4	2.4	2.3	2.5	3.2	3.1	7.3	1.4	4.6
07/10/10	1.5	0.8	1.2	3.9	7.1	6.7	7.5	7.0	7.1	6.7	3.5	2.7	2.7	2.5	3.8	6.7	3.4	3.0	3.1	1.9	2.6	3.5	2.1	1.9	7.5	0.8	3.9
07/11/10	1.9	2.3	2.9	4.4	2.2	1.7	1.3	1.8	2.9	2.7	2.8	2.9	3.0	3.1	3.3	3.7	4.0	6.2	5.6	3.9	2.3	2.2	2.1	1.6	6.2	1.3	3.0
07/12/10	1.4	3.2	2.5	2.8	1.9	1.8	1.4	1.8	2.6	2.5	3.3	3.4	3.4	3.8	4.0	3.7	3.7	4.0	3.2	2.8	2.8	3.0	3.9	2.7	4.0	1.4	2.9
07/13/10	2.8	2.6	2.9	3.0	1.9	1.6	1.4	2.2	3.2	3.1	3.5	3.2	3.3	3.4	3.7	3.6	3.8	4.1	3.1	2.3	2.5	1.5	0.4	0.6	4.1	0.4	2.7
07/14/10	2.4	1.2	0.9	0.0	0.0	0.0	0.3	1.5	2.8	3.4	1.6	2.2	3.0	2.2	5.9	2.0	1.4	2.9	4.6	2.2	1.6	1.6	1.7	1.9	5.9	0.0	2.0
07/15/10	2.0	1.8	1.5	1.3	0.3	1.1	0.9	1.0	1.8	3.1	2.6	2.7	3.1	2.9	3.6	3.5	3.1	4.4	8.1	7.3	3.7	4.6	3.5	3.3	8.1	0.3	3.0
07/16/10	2.8	3.4	2.2	2.6	2.5	2.4	2.3	2.0	2.3	3.1	3.1	3.3	3.0	2.3	2.7	2.7	3.4	3.0	2.7	2.6	8.0	9.8	4.8	7.0	9.8	2.0	3.5
07/17/10	3.0	2.4	2.0	1.6	1.6	1.6	0.8	0.1	1.8	2.8	2.7	3.3	3.2	2.9	3.4	3.5	3.4	3.0	3.1	3.4	2.8	4.0	3.3	2.3	4.0	0.1	2.6
07/18/10	4.3	2.5	1.3	0.0	1.0	1.7	1.9	2.3	3.1	3.4	3.3	3.5	3.6	4.4	4.5	4.3	3.8	3.4	3.7	2.5	3.6	2.1	6.1	1.7	6.1	0.0	3.0
07/19/10	1.1	0.9	2.1	1.7	0.7	0.4	0.7	1.9	2.7	3.4	3.8	3.8	3.7	3.8	3.9	3.9	3.8	3.6	3.4	3.5	2.8	2.7	2.9	4.7	4.7	0.4	2.7
07/20/10	6.0	5.8	4.9	2.3	1.9	1.7	1.7	3.9	3.1	2.2	2.9	3.4	3.4	3.4	3.5	3.2	3.7	3.1	3.2	2.5	1.9	2.1	2.1	1.7	6.0	1.7	3.1
07/21/10	1.5	0.9	2.5	2.3	1.0	1.1	0.9	1.1	2.9	2.7	3.5	4.4	4.1	3.2	3.3	3.2	2.6	2.6	2.6	2.5	2.3	2.0	2.0	7.8	7.8	0.9	2.6
07/22/10	5.2	3.6	2.8	2.5	2.9	3.4	5.0	2.0	2.6	2.5	2.5	2.6	2.2	2.0	3.9	2.8	3.0	3.5	2.2	0.9	1.9	1.6	1.4	0.4	5.2	0.4	2.6
07/23/10	0.0	0.0	0.0	0.7	1.1	1.8	1.4	1.1	2.1	2.8	3.0	3.2	3.9	3.8	3.7	2.5	2.7	2.8	4.3	2.0	1.8	1.7	3.0	2.4	4.3	0.0	2.2
07/24/10	2.9	2.0	2.0	2.6	2.0	2.0	3.1	3.9	3.6	3.1	2.2	2.7	2.7	2.1	2.8	2.7	7.4	7.2	2.3	2.1	3.4	4.2	3.5	3.4	7.4	2.0	3.2
07/25/10	3.4	3.1	2.8	2.2	2.7	2.9	4.2	4.8	6.2	5.1	3.6	2.9	1.8	3.0	3.4	4.3	4.5	3.6	5.0	3.8	3.4	2.2	2.9	3.5	6.2	1.8	3.6
07/26/10	3.6	3.9	3.9	3.6	4.1	4.6	5.3	4.0	4.5	3.8	3.2	INV	INV	2.5	2.1	2.4	3.4	2.3	4.1	5.4	4.3	4.0	3.2	3.4	5.4	2.1	3.7
07/27/10	3.4	3.8	3.3	2.3	2.6	2.3	1.8	2.1	2.5	2.4	2.9	2.2	3.1	2.2	2.6	2.9	2.1	1.0	2.7	3.3	1.9	1.7	1.0	1.4	3.8	1.0	2.4
07/28/10	2.2	1.8	1.3	1.3	0.7	0.9	1.0	2.4	2.4	2.5	2.4	2.6	2.7	2.9	2.8	3.5	6.2	2.8	2.1	1.6	2.3	1.9	1.3	2.1	6.2	0.7	2.2
07/29/10	3.6	5.3	5.4	5.4	5.7	3.0	2.9	3.7	4.5	3.6	3.9	3.6	3.0	2.9	2.0	3.9	4.1	4.4	2.6	1.9	1.5	1.4	1.8	1.6	5.7	1.4	3.4
07/30/10	3.4	5.8	3.3	1.4	0.4	0.4	1.6	3.3	3.3	3.4	3.1	3.4	3.4	3.6	3.5	3.3	2.9	2.2	1.2	1.3	1.6	1.7	2.0	4.2	5.8	0.4	2.7
07/31/10	2.6	1.5	0.9	0.6	1.1	0.8	1.1	2.5	1.9	1.8	1.6	2.2	3.0	3.5	3.1	3.3	2.6	1.4	1.5	2.0	1.4	0.8	0.4	0.5	3.5	0.4	1.8
Hourly Averages	2.7	2.7	2.6	2.5	2.4	2.4	2.5	2.9	3.5	3.7	3.4	3.4	3.5	3.4	3.6	3.6	3.6	3.4	3.3	2.9	2.7	2.7	2.4	2.5			

Maximum Hourly Wind Speed: 9.8 **Minimum Hourly Wind Speed:** 0.0 **Average Monthly Wind Speed:** 3.0

Maximum 24-Hour Mean: 4.7 **Minimum 24-Hour Mean:** 1.8

Total Number of Observations: 742 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	94	70	71	59	74	63	49	48	45	45	95	123	130	136	104	39	40	83	159	116	129	103	89	90
07/02/10	112	109	76	80	98	106	85	90	96	108	112	126	168	148	108	145	352	213	251	324	94	107	105	186
07/03/10	30	245	204	207	34	241	238	175	204	229	234	206	223	205	201	193	206	195	130	120	306	88	229	229
07/04/10	229	233	240	224	230	233	229	229	258	227	236	306	289	284	244	265	240	273	296	278	309	330	354	306
07/05/10	285	258	268	286	266	262	256	251	266	258	263	259	251	270	261	278	270	220	207	264	271	275	299	316
07/06/10	278	284	270	268	268	297	349	316	264	252	267	262	253	259	249	260	243	265	275	281	297	323	11	188
07/07/10	14	162	195	216	177	129	240	63	333	271	262	274	271	255	271	270	262	261	202	122	84	71	84	109
07/08/10	102	46	66	64	85	78	58	105	101	124	127	129	126	120	124	137	45	43	42	51	66	95	98	79
07/09/10	68	79	105	76	90	95	89	96	101	104	123	126	82	42	48	63	118	125	16	260	273	63	63	72
07/10/10	79	321	115	51	43	38	36	43	40	37	101	168	105	297	226	51	78	89	90	94	122	72	120	95
07/11/10	92	99	69	45	96	114	149	85	109	183	188	217	284	266	239	262	288	15	37	44	106	146	98	99
07/12/10	188	224	218	227	227	228	248	227	240	262	266	238	257	251	236	262	243	271	262	284	290	294	305	279
07/13/10	277	272	277	276	274	257	255	280	270	256	267	241	259	267	260	247	263	273	251	249	272	309	280	235
07/14/10	212	68	344	0	0	0	102	91	100	111	81	260	281	257	6	113	147	94	49	107	150	181	171	184
07/15/10	167	158	169	193	222	184	156	133	216	242	258	243	256	217	250	251	220	329	31	38	68	101	86	78
07/16/10	92	60	100	88	75	88	90	94	117	115	112	131	122	105	229	231	250	293	183	237	25	37	65	43
07/17/10	140	105	166	159	183	177	178	133	254	244	266	242	237	273	250	252	242	238	231	278	266	217	214	191
07/18/10	149	113	46	214	204	299	287	273	270	270	254	244	249	258	244	246	258	245	139	265	282	313	41	117
07/19/10	72	312	257	262	303	258	248	265	266	265	274	258	242	248	232	266	250	234	225	265	274	299	81	65
07/20/10	42	93	84	97	67	113	138	62	72	249	264	271	256	245	232	227	268	314	288	264	284	303	340	308
07/21/10	316	292	263	267	21	253	7	276	261	222	254	274	277	272	260	296	245	211	183	135	111	91	83	117
07/22/10	117	100	60	60	75	80	111	80	274	263	264	250	25	30	58	52	39	4	336	173	121	100	141	178
07/23/10	0	0	0	168	139	128	150	129	256	247	243	259	267	263	270	248	235	70	41	86	224	87	110	74
07/24/10	79	85	81	85	99	99	72	48	53	132	148	348	9	315	257	279	7	41	112	109	108	87	79	71
07/25/10	79	86	94	87	78	66	50	50	44	47	92	116	65	306	28	77	102	75	52	46	58	87	89	78
07/26/10	68	67	59	61	56	54	51	56	51	102	122	INV	INV	108	44	254	110	87	53	55	65	91	98	68
07/27/10	68	59	57	62	91	79	86	82	108	123	38	26	222	215	311	311	28	70	134	105	40	76	82	87
07/28/10	95	82	114	87	118	106	89	99	127	118	271	280	298	275	266	233	93	17	115	148	125	170	156	77
07/29/10	72	48	47	44	46	69	66	58	53	54	43	60	86	118	124	270	271	267	260	264	117	137	86	88
07/30/10	93	127	137	55	198	90	100	72	53	274	238	274	278	266	269	262	255	275	274	98	133	121	126	116
07/31/10	121	94	80	90	92	265	94	123	119	150	262	275	278	269	259	225	318	261	258	252	103	57	155	124
Hourly Averages	124	140	140	134	130	147	140	133	162	180	194	216	205	221	199	212	193	176	167	175	167	156	140	140

Total Number of Observations: 742 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	0.9	0.3	0.3	0.0	0.5	0.0	0.0	0.8	0.9	1.0	2.1	2.8	2.2	2.9	2.9	3.0	2.9	2.6	2.5	2.2	2.0	0.3	0.3	0.7	3.0	0.0	1.4
08/02/10	0.9	0.2	1.0	0.8	0.6	0.7	0.6	0.6	1.4	2.4	2.5	2.8	2.7	3.5	2.6	3.8	3.5	3.0	2.6	1.6	0.9	0.1	0.6	0.7	3.8	0.1	1.7
08/03/10	0.9	0.9	1.4	1.4	1.2	1.2	1.1	1.5	1.8	1.6	2.1	2.2	2.5	2.8	3.1	2.8	2.5	2.5	2.2	1.4	1.4	0.8	0.7	1.0	3.1	0.7	1.7
08/04/10	1.2	1.6	1.6	1.2	1.3	1.3	0.6	0.3	1.1	1.9	2.5	2.4	2.4	3.2	2.9	3.3	2.7	3.2	2.7	1.4	0.5	1.1	0.9	2.0	3.3	0.3	1.8
08/05/10	1.7	1.3	1.2	1.4	0.7	1.1	1.5	2.2	2.2	3.1	1.8	2.1	2.2	3.2	3.5	3.8	3.7	2.7	2.1	1.4	4.7	5.1	4.9	4.1	5.1	0.7	2.6
08/06/10	4.2	4.5	3.6	4.3	3.3	3.4	3.1	3.8	3.0	3.8	3.3	3.1	2.6	2.5	2.4	2.9	3.3	2.3	2.0	1.0	1.1	2.2	1.1	1.6	4.5	1.0	2.8
08/07/10	3.6	7.9	4.6	3.5	5.9	4.4	4.3	1.9	1.9	2.7	2.0	2.4	3.1	2.8	2.9	2.4	3.0	2.5	2.1	1.5	1.1	1.2	2.3	2.4	7.9	1.1	3.0
08/08/10	3.8	3.8	2.5	2.5	2.4	2.3	2.4	2.6	2.6	2.8	3.0	2.2	2.5	2.6	2.9	2.4	3.3	3.2	3.1	2.6	1.8	1.1	1.1	1.3	3.8	1.1	2.5
08/09/10	1.2	0.3	0.3	0.6	0.6	0.0	0.7	0.9	1.4	2.3	2.7	2.9	2.7	3.1	2.8	2.7	2.9	2.2	2.1	1.4	0.5	0.5	1.0	0.0	3.1	0.0	1.5
08/10/10	0.0	0.1	1.1	0.2	0.4	0.3	0.0	1.6	1.7	1.9	2.0	2.5	3.3	3.1	3.4	2.7	3.2	3.4	3.2	1.4	0.5	1.0	1.2	1.0	3.4	0.0	1.6
08/11/10	0.6	1.8	1.1	0.8	0.1	0.9	0.6	1.1	1.5	1.7	2.9	2.8	2.9	3.4	3.4	3.1	3.2	3.1	2.4	1.7	1.4	0.7	1.1	1.2	3.4	0.1	1.8
08/12/10	1.4	2.4	2.5	1.6	0.8	0.5	0.3	1.0	1.6	2.1	2.8	2.7	3.1	3.4	4.0	3.7	3.5	3.4	2.9	2.1	1.2	2.4	1.8	1.4	4.0	0.3	2.2
08/13/10	0.3	0.0	0.8	0.4	0.1	0.1	0.1	0.6	1.2	2.1	2.5	2.5	2.7	3.6	3.2	3.3	3.1	3.5	2.6	2.2	2.5	2.3	2.1	2.3	3.6	0.0	1.8
08/14/10	3.2	2.1	1.5	2.0	0.7	1.2	1.1	1.3	2.4	2.5	2.9	3.5	3.6	3.6	3.8	3.9	3.9	3.8	3.2	3.7	3.3	2.9	2.3	1.5	3.9	0.7	2.7
08/15/10	1.5	2.1	3.4	2.4	1.7	1.8	1.2	1.2	2.3	3.5	3.1	3.5	3.3	3.4	3.7	4.8	4.1	3.3	3.8	3.8	5.4	7.8	4.7	5.8	7.8	1.2	3.4
08/16/10	5.2	4.1	3.7	3.2	3.3	2.4	1.5	1.5	3.4	6.5	7.7	5.7	3.8	3.4	2.8	2.5	2.8	2.2	3.2	1.8	3.3	2.1	1.4	0.5	7.7	0.5	3.2
08/17/10	1.2	2.0	0.9	0.3	0.3	0.6	1.1	2.0	3.0	2.4	2.4	3.0	2.9	2.9	3.4	2.8	6.6	7.4	4.0	3.6	2.9	2.3	2.1	2.2	7.4	0.3	2.6
08/18/10	2.7	3.3	3.3	2.3	2.3	1.9	1.4	1.8	2.8	2.9	2.2	2.3	2.7	3.1	3.0	3.0	2.7	2.9	2.4	1.9	1.8	1.1	1.1	0.5	3.3	0.5	2.3
08/19/10	0.0	0.0	0.0	0.0	1.4	1.7	1.6	2.5	2.1	2.1	2.0	2.2	2.7	3.5	3.4	3.3	3.3	2.9	2.6	1.5	2.6	1.4	1.1	1.1	3.5	0.0	1.9
08/20/10	2.7	1.7	2.1	1.8	1.7	1.1	0.2	0.9	2.9	2.8	3.1	3.3	3.5	3.7	3.6	3.8	3.4	3.4	3.0	2.7	3.7	2.6	2.7	2.3	3.8	0.2	2.6
08/21/10	2.2	2.9	2.8	2.6	2.2	0.6	1.6	2.0	2.7	3.4	4.2	3.9	3.8	3.0	3.2	3.1	2.6	2.4	2.4	3.6	3.8	4.9	3.5	2.4	4.9	0.6	2.9
08/22/10	7.9	8.5	8.0	7.7	4.4	3.4	3.0	2.4	2.7	2.7	2.4	2.3	2.6	3.4	2.5	2.7	2.5	2.2	1.4	1.5	0.2	0.0	0.1	0.3	8.5	0.0	3.1
08/23/10	0.3	0.2	0.4	1.4	1.5	1.2	1.7	1.4	2.5	3.0	2.6	2.5	2.4	2.9	3.0	3.2	2.9	2.6	2.1	1.1	1.4	1.7	1.8	2.4	3.2	0.2	1.9
08/24/10	2.0	1.7	2.0	2.1	2.4	3.3	3.8	4.2	5.5	6.2	7.0	4.8	3.1	2.8	3.1	7.0	5.2	6.0	7.7	8.3	7.0	7.2	5.7	5.2	8.3	1.7	4.7
08/25/10	7.5	8.3	8.3	7.8	6.4	8.2	8.3	6.2	5.9	6.3	6.5	7.2	7.4	7.6	7.4	7.9	6.9	6.8	7.5	6.5	5.2	5.8	5.0	5.7	8.3	5.0	6.9
08/26/10	6.6	6.1	5.7	7.0	5.3	4.7	5.6	7.2	6.6	6.1	5.3	5.2	5.0	3.9	3.7	3.5	3.1	2.7	1.8	1.7	3.1	0.7	1.0	1.4	7.2	0.7	4.3
08/27/10	2.6	1.7	6.7	7.1	8.4	6.0	4.9	3.9	4.2	2.3	2.9	2.4	3.0	3.4	3.1	2.7	2.8	3.1	4.0	4.2	1.9	1.5	1.0	1.1	8.4	1.0	3.5
08/28/10	1.3	1.4	1.0	0.6	1.0	1.4	1.5	2.1	3.3	3.2	3.4	3.6	3.1	3.1	3.4	3.0	4.4	4.0	3.0	2.9	5.0	3.5	2.2	1.9	5.0	0.6	2.6
08/29/10	4.3	3.0	2.3	1.9	1.4	0.4	1.8	2.8	4.0	4.7	4.6	5.2	5.3	3.2	4.1	5.0	5.6	6.1	3.1	3.3	4.7	5.0	4.9	3.6	6.1	0.4	3.8
08/30/10	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	4.3	5.3	4.5	5.1	4.0	4.8	4.8	4.3	4.0	3.0	2.8	1.7	4.2	5.3	0.0	2.3
08/31/10	3.3	2.6	4.0	2.1	0.0	0.0	0.0	0.0	0.4	2.4	2.5	2.6	2.7	2.7	2.7	2.6	3.0	2.7	1.8	1.1	0.6	1.6	1.3	1.4	4.0	0.0	1.8
Hourly Averages	2.4	2.5	2.5	2.3	2.0	1.8	1.8	2.0	2.6	3.0	3.2	3.3	3.3	3.4	3.4	3.5	3.6	3.5	3.0	2.6	2.5	2.4	2.0	2.0			

Maximum Hourly Wind Speed: 8.5 **Minimum Hourly Wind Speed:** 0.0 **Average Monthly Wind Speed:** 2.7

Maximum 24-Hour Mean: 6.9 **Minimum 24-Hour Mean:** 1.4

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

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	163	101	59	102	55	0	0	118	61	77	327	289	283	299	244	216	269	327	286	272	273	60	135	196
08/02/10	186	169	152	179	137	165	145	99	305	257	289	292	233	176	308	294	282	291	257	269	269	152	175	170
08/03/10	171	153	152	120	120	153	157	107	72	78	84	230	306	253	221	295	239	254	280	274	252	180	179	170
08/04/10	169	181	173	200	159	165	162	88	90	10	270	290	254	184	197	242	266	287	314	195	151	190	172	97
08/05/10	123	92	136	148	141	143	143	104	100	42	57	78	156	202	280	286	290	257	253	199	122	103	50	59
08/06/10	66	55	80	73	75	71	69	80	93	122	211	198	296	283	301	261	276	249	282	209	171	95	137	158
08/07/10	91	116	104	86	111	97	81	53	293	271	255	250	267	258	227	334	263	267	288	272	94	154	118	171
08/08/10	135	110	95	95	90	92	82	87	107	126	148	238	210	268	215	211	341	221	184	131	150	133	110	78
08/09/10	146	7	124	205	164	122	180	181	295	248	253	289	284	252	274	279	211	289	286	229	235	191	155	200
08/10/10	0	179	174	113	179	175	143	110	73	101	87	155	209	246	239	284	271	300	294	240	160	207	179	157
08/11/10	160	158	359	208	156	173	171	125	240	306	278	279	290	252	274	253	256	214	254	329	319	206	205	223
08/12/10	221	256	258	279	288	277	132	107	89	268	269	268	278	301	289	260	287	284	297	296	296	331	23	55
08/13/10	157	0	165	21	210	77	197	120	73	265	275	247	309	295	285	231	257	235	247	276	316	329	313	308
08/14/10	332	298	269	270	182	177	202	243	246	258	270	257	249	244	253	256	256	253	253	265	263	268	271	291
08/15/10	249	215	222	227	312	318	54	109	250	265	259	247	264	250	270	276	252	260	218	225	54	45	86	89
08/16/10	91	87	82	100	134	112	60	61	52	47	48	59	125	127	129	83	29	289	286	245	107	106	114	158
08/17/10	90	104	117	150	109	124	128	102	75	95	18	237	330	6	222	243	98	18	91	121	76	110	82	130
08/18/10	125	97	90	103	116	95	100	104	107	128	131	275	263	239	264	287	238	257	247	267	261	345	307	201
08/19/10	0	0	0	0	137	136	106	82	73	65	64	213	258	220	255	231	219	239	271	262	306	319	6	340
08/20/10	337	316	347	293	256	248	149	242	256	265	262	252	240	234	254	255	240	305	278	265	276	285	286	298
08/21/10	305	281	257	265	249	210	275	246	253	271	258	252	247	258	235	229	267	254	264	336	59	160	253	13
08/22/10	44	49	46	47	73	92	92	84	67	125	130	11	267	256	242	263	298	229	292	229	27	0	215	131
08/23/10	218	282	201	194	178	184	166	144	68	67	56	283	283	268	278	264	257	258	270	220	264	2	123	109
08/24/10	141	124	148	138	151	128	116	100	66	56	49	79	117	112	65	75	104	100	117	115	99	77	72	69
08/25/10	48	44	46	49	65	46	45	60	69	75	69	130	129	121	115	110	91	92	87	92	104	89	97	109
08/26/10	91	104	71	51	62	72	54	47	64	86	118	139	143	157	160	160	170	121	151	226	275	279	89	125
08/27/10	67	87	38	43	35	42	60	62	59	80	191	224	248	243	266	262	275	248	187	110	127	123	86	113
08/28/10	113	125	136	92	94	89	88	96	114	155	191	200	209	214	210	238	181	179	102	107	154	112	104	168
08/29/10	187	168	150	159	144	152	169	144	178	180	190	192	190	260	208	196	212	211	112	159	186	187	189	187
08/30/10	189	0	0	0	0	0	0	0	0	0	206	200	194	193	205	197	200	195	207	196	166	206	191	216
08/31/10	232	231	229	234	0	0	0	0	33	307	259	270	269	252	265	231	274	252	310	96	175	196	187	201
Hourly Averages	150	135	145	137	135	127	114	107	126	151	180	214	239	223	234	235	231	233	234	217	187	169	152	161

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

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	1.5	0.8	1.3	1.5	1.6	1.9	1.8	2.4	4.4	4.2	3.0	2.6	3.1	2.8	2.4	3.1	3.0	3.0	2.1	2.2	2.8	1.9	1.6	0.8	4.4	0.8	2.3
09/02/10	1.1	1.0	0.4	1.1	1.0	1.2	1.6	1.6	2.0	2.4	2.6	3.2	3.1	3.3	2.6	3.2	3.1	2.9	2.7	2.6	2.8	2.6	1.5	0.8	3.3	0.4	2.1
09/03/10	0.7	0.9	1.4	1.6	1.9	2.1	2.0	4.0	6.1	7.0	6.2	4.7	4.5	5.0	4.2	4.1	3.9	3.5	4.0	5.4	4.1	3.5	5.1	4.8	7.0	0.7	3.8
09/04/10	4.6	4.0	4.9	4.3	4.5	4.9	4.2	5.6	6.4	6.4	6.3	3.5	3.0	2.8	2.9	2.3	2.7	1.7	1.1	1.8	1.8	0.9	0.1	0.7	6.4	0.1	3.4
09/05/10	1.2	1.2	1.6	1.7	1.6	1.4	1.8	1.6	1.9	3.1	3.2	2.5	2.9	2.9	3.6	3.6	3.1	2.9	1.9	1.3	0.7	0.5	1.1	2.0	3.6	0.5	2.0
09/06/10	2.0	1.5	2.8	1.2	0.6	0.6	0.6	1.0	2.3	2.8	2.9	3.2	3.6	3.1	3.5	4.8	2.0	1.6	1.3	0.8	0.8	0.1	0.0	0.5	4.8	0.0	1.8
09/07/10	0.4	0.4	0.0	0.6	0.2	0.5	1.5	1.5	2.0	2.9	2.9	2.9	3.2	3.2	2.9	2.9	3.2	4.6	5.0	2.9	2.7	2.6	2.8	2.2	5.0	0.0	2.2
09/08/10	2.5	1.9	0.1	1.5	1.3	1.4	1.1	1.2	3.0	3.6	3.5	4.3	4.4	4.5	4.7	4.3	5.0	4.6	4.1	3.8	2.6	1.9	3.5	3.8	5.0	0.1	3.0
09/09/10	3.6	3.5	4.0	2.5	1.7	2.3	3.0	4.6	4.7	4.4	4.0	4.8	4.0	4.9	4.7	4.4	4.0	3.7	3.9	3.9	2.8	1.4	0.9	0.5	4.9	0.5	3.4
09/10/10	1.0	1.2	1.6	1.7	0.6	0.3	0.9	0.6	1.9	3.2	2.5	2.5	2.9	3.0	3.0	2.9	3.1	2.6	1.5	0.8	0.9	1.6	1.1	1.2	3.2	0.3	1.8
09/11/10	0.7	0.9	1.4	1.5	2.0	2.1	2.1	1.9	2.2	1.9	2.9	2.8	2.8	2.8	2.8	2.8	3.1	3.2	3.5	3.1	1.8	1.1	0.8	1.3	3.5	0.7	2.1
09/12/10	2.0	2.1	2.2	2.3	2.3	1.8	2.1	2.3	3.5	3.9	3.8	3.9	3.4	2.8	3.3	2.7	3.2	3.2	2.9	3.4	1.5	0.7	0.7	0.2	3.9	0.2	2.5
09/13/10	0.0	0.0	0.4	0.9	0.9	1.4	1.6	2.3	3.7	3.0	2.5	2.5	2.9	3.0	3.0	2.9	3.4	2.6	3.4	3.1	2.9	2.2	2.5	1.1	3.7	0.0	2.2
09/14/10	0.8	1.3	1.6	1.4	1.5	1.5	1.9	2.5	2.7	2.9	2.4	2.8	3.1	3.6	3.1	3.0	3.2	3.3	3.2	3.4	2.7	2.5	1.9	1.5	3.6	0.8	2.4
09/15/10	1.1	1.1	1.1	1.3	1.6	1.2	0.7	0.7	1.0	1.6	2.9	3.4	4.3	4.1	4.2	3.2	3.3	3.0	1.8	0.6	1.0	1.1	0.8	0.9	4.3	0.6	1.9
09/16/10	1.1	0.7	0.0	0.3	1.5	2.0	2.0	1.7	2.8	2.6	2.7	3.1	3.4	3.0	3.4	3.9	3.5	2.9	2.9	2.8	2.4	1.4	0.9	0.6	3.9	0.0	2.2
09/17/10	1.2	1.0	1.4	1.5	2.1	3.9	3.0	3.3	4.4	4.8	4.3	3.0	3.8	3.4	2.9	3.2	3.5	2.3	2.4	2.1	0.5	1.0	1.5	1.5	4.8	0.5	2.6
09/18/10	1.4	1.1	1.6	1.8	2.0	2.5	3.1	4.4	5.0	5.3	5.5	3.9	2.8	2.6	3.2	2.9	3.4	3.3	3.3	3.5	2.6	1.0	1.7	1.8	5.5	1.0	2.9
09/19/10	2.4	3.1	2.2	1.9	1.7	2.5	3.3	5.9	5.6	5.4	6.0	5.3	3.8	4.0	4.4	4.1	4.1	3.8	3.3	3.4	3.8	4.0	4.6	6.1	6.1	1.7	4.0
09/20/10	6.1	6.5	6.0	4.0	3.9	4.1	4.7	3.7	4.1	4.8	3.9	3.7	3.5	3.3	3.3	3.0	3.0	2.9	1.7	1.2	1.0	0.2	0.2	3.1	6.5	0.2	3.4
09/21/10	1.3	1.7	1.2	2.3	1.4	0.8	0.7	0.9	2.0	2.8	2.7	3.1	3.3	3.2	3.4	3.3	2.9	2.8	2.8	3.0	3.4	2.4	1.8	1.9	3.4	0.7	2.3
09/22/10	2.1	2.1	3.4	2.2	2.9	4.1	3.1	2.3	3.4	3.2	2.2	3.2	3.2	2.8	4.3	3.9	4.5	3.8	5.1	5.7	4.6	5.7	4.8	4.3	5.7	2.1	3.6
09/23/10	3.3	1.5	0.5	0.6	0.3	0.6	0.7	0.7	1.3	2.9	2.1	1.8	2.6	2.4	2.2	2.3	1.5	2.1	2.2	1.7	1.1	1.3	1.5	1.9	3.3	0.3	1.6
09/24/10	2.0	2.0	1.7	2.0	2.4	2.2	2.4	2.9	3.1	3.6	5.3	4.8	2.7	2.8	2.6	2.1	2.1	3.2	4.0	2.4	1.7	3.8	6.7	5.3	6.7	1.7	3.1
09/25/10	4.9	6.9	7.3	5.8	3.0	3.4	2.7	3.1	5.2	6.4	6.9	6.2	4.6	4.2	3.8	4.0	4.9	4.6	2.7	1.9	3.6	6.3	4.4	3.0	7.3	1.9	4.6
09/26/10	2.4	2.5	1.7	4.7	3.5	3.5	3.5	4.0	7.5	8.3	7.9	6.7	6.5	7.5	6.3	5.8	4.7	3.6	2.6	1.2	1.5	1.3	1.7	2.0	8.3	1.2	4.2
09/27/10	1.5	2.1	4.5	5.4	4.5	4.2	5.7	5.6	5.2	6.3	6.2	6.6	5.0	3.6	3.6	4.4	3.6	3.1	1.9	1.6	2.2	2.1	1.6	2.0	6.6	1.5	3.9
09/28/10	1.8	2.0	3.4	4.0	3.3	3.3	2.6	4.6	4.9	3.7	2.9	2.3	2.2	2.5	3.3	2.4	3.1	3.1	3.1	1.3	1.3	1.5	1.7	1.6	4.9	1.3	2.7
09/29/10	1.4	1.3	1.2	1.6	1.8	2.1	2.2	2.4	2.8	3.7	3.4	3.3	3.6	3.3	3.0	3.1	3.4	3.5	4.1	2.8	1.4	1.1	1.1	1.6	4.1	1.1	2.5
09/30/10	0.9	1.6	1.0	1.2	1.6	1.9	1.8	2.7	3.6	3.7	2.9	4.5	5.1	5.7	4.5	4.4	4.4	3.8	2.4	1.7	2.6	3.4	3.2	2.6	5.7	0.9	3.0
Hourly Averages	1.9	1.9	2.1	2.1	2.0	2.2	2.3	2.7	3.6	4.0	3.9	3.7	3.6	3.5	3.5	3.4	3.4	3.2	2.9	2.5	2.2	2.0	2.1	2.1			

Maximum Hourly Wind Speed: 8.3 **Minimum Hourly Wind Speed:** 0.0 **Average Monthly Wind Speed:** 2.8

Maximum 24-Hour Mean: 4.6 **Minimum 24-Hour Mean:** 1.6

Total Number of Observations: 720 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	217	205	198	195	190	181	149	94	47	49	24	222	245	258	246	222	219	218	228	291	269	285	301	275
09/02/10	182	186	175	185	177	183	182	159	111	73	250	249	204	209	212	239	214	239	261	279	296	296	324	273
09/03/10	8	161	155	143	182	151	112	84	49	46	54	133	131	131	126	116	96	85	114	76	70	68	98	97
09/04/10	102	82	52	57	64	53	58	48	47	49	44	106	122	119	164	114	139	133	195	243	267	264	160	175
09/05/10	155	140	136	133	119	117	116	81	117	122	131	99	281	266	276	257	253	272	300	53	39	172	187	247
09/06/10	247	278	246	218	136	152	183	140	266	264	240	257	220	269	346	174	187	259	263	144	147	128	0	206
09/07/10	264	102	74	98	76	112	217	146	218	246	255	274	290	306	244	246	208	184	131	89	110	118	83	105
09/08/10	111	97	117	220	224	226	137	103	116	124	162	194	197	201	211	215	218	203	189	183	173	182	211	217
09/09/10	211	218	222	239	231	207	211	197	195	212	208	217	218	215	210	211	199	162	185	215	228	251	349	94
09/10/10	132	342	230	232	194	141	149	88	93	128	152	133	233	229	213	280	268	233	153	255	159	187	162	173
09/11/10	147	169	162	163	177	181	179	145	81	270	258	274	176	173	172	176	251	262	264	279	300	213	189	158
09/12/10	167	171	151	151	164	167	165	137	65	43	104	133	148	139	265	252	237	275	262	270	36	167	128	187
09/13/10	0	0	150	110	106	122	93	91	51	108	142	337	280	216	224	239	240	215	259	271	269	280	268	273
09/14/10	176	191	103	102	150	125	107	86	88	112	161	266	236	255	261	253	251	260	266	273	289	321	297	285
09/15/10	134	200	132	119	147	182	181	120	98	343	269	257	225	257	268	239	293	268	266	283	176	186	119	194
09/16/10	176	149	0	187	189	193	178	141	84	58	324	225	238	274	205	234	258	247	268	271	272	289	251	156
09/17/10	190	191	181	145	121	102	113	79	61	55	41	231	258	286	253	233	236	273	254	308	12	153	183	197
09/18/10	186	175	190	156	137	117	128	66	52	46	41	47	22	204	145	93	264	250	259	298	292	157	169	128
09/19/10	98	77	101	80	92	74	71	50	54	60	48	73	139	138	117	98	139	147	127	111	116	120	112	117
09/20/10	118	116	113	77	81	62	44	66	93	109	130	126	147	211	212	256	254	251	247	28	283	161	125	227
09/21/10	158	271	259	235	210	72	213	193	243	260	272	277	270	265	271	232	222	221	213	209	186	135	237	194
09/22/10	169	127	137	124	168	204	160	171	198	190	256	219	216	214	215	202	209	209	197	196	206	212	213	218
09/23/10	214	191	87	103	129	259	194	127	78	57	75	30	176	294	277	250	306	224	258	288	250	193	180	157
09/24/10	144	151	166	170	158	141	141	125	98	64	43	30	200	126	239	45	271	18	24	91	146	61	44	48
09/25/10	52	32	31	44	106	139	128	83	50	47	40	35	86	143	139	84	70	76	78	68	46	32	47	73
09/26/10	134	105	142	55	70	64	72	77	95	105	99	112	100	94	99	102	104	112	128	23	96	105	94	92
09/27/10	113	74	49	40	54	74	57	56	54	46	46	46	35	152	109	137	128	129	134	71	140	58	83	70
09/28/10	88	98	58	57	68	64	87	54	52	89	138	114	153	86	150	126	192	254	268	191	161	125	121	126
09/29/10	114	148	189	149	117	118	138	133	107	66	37	281	247	244	236	265	265	262	269	263	282	213	187	182
09/30/10	177	180	160	191	146	123	117	120	86	56	78	129	135	120	162	131	167	181	169	110	86	99	102	124
Hourly Averages	146	154	139	139	139	137	136	109	102	116	137	171	188	203	209	191	212	204	208	191	180	174	167	169

Total Number of Observations: 720 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-B

HOURLY SIGMA THETA DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	14	20	23	20	21	20	13	11	11	13	26	26	32	43	84	17	22	21	39	14	18	16	19	12
07/02/10	10	26	19	15	14	11	17	16	19	24	22	29	57	43	34	55	91	72	82	82	72	20	12	25
07/03/10	32	20	42	33	64	29	54	64	65	81	53	52	43	43	51	61	57	94	81	71	90	68	61	42
07/04/10	15	19	28	22	28	21	29	27	41	42	72	64	70	61	67	79	73	74	54	63	29	21	29	28
07/05/10	26	38	20	25	59	22	27	23	32	39	30	41	37	42	51	73	64	63	69	63	45	36	28	34
07/06/10	25	23	16	18	30	29	63	46	20	21	22	40	53	51	57	70	70	77	43	70	44	15	54	26
07/07/10	47	21	18	29	80	56	49	21	74	18	25	58	50	52	56	72	60	49	75	15	20	26	22	22
07/08/10	25	16	24	19	11	16	18	19	20	15	18	17	23	36	38	53	71	16	13	14	29	19	14	21
07/09/10	21	16	10	19	17	15	13	16	18	22	20	26	41	13	20	28	40	43	35	27	40	31	27	23
07/10/10	22	52	34	20	12	12	11	11	10	14	39	71	90	90	80	43	60	31	40	32	59	61	46	25
07/11/10	21	20	24	14	27	17	29	35	20	50	58	71	80	75	59	57	49	37	18	18	34	60	53	34
07/12/10	36	19	21	15	22	19	30	27	28	45	55	46	42	51	62	66	60	59	64	78	48	37	32	37
07/13/10	18	29	26	23	30	20	21	21	18	31	37	42	45	57	67	56	63	59	84	57	43	50	34	21
07/14/10	49	19	56	0	0	0	5	24	19	22	64	51	44	92	44	49	53	41	16	53	55	31	31	15
07/15/10	20	22	49	50	7	35	19	36	81	29	42	78	65	84	54	62	59	87	12	10	29	16	13	13
07/16/10	23	25	24	17	15	12	16	16	29	21	18	21	28	83	54	66	53	50	65	67	49	13	27	13
07/17/10	38	40	34	32	22	24	36	17	37	29	45	50	55	67	46	57	48	55	58	47	53	46	45	39
07/18/10	17	28	23	0	69	82	27	25	24	44	51	55	54	56	52	62	59	63	72	40	33	81	13	23
07/19/10	69	56	47	29	42	26	32	32	25	31	43	41	49	51	47	64	58	77	67	54	43	27	21	22
07/20/10	13	25	16	34	25	39	41	20	35	43	57	51	55	72	57	77	80	76	68	64	64	27	29	25
07/21/10	26	20	14	25	83	26	71	63	32	68	65	38	31	28	51	47	89	51	52	29	26	22	21	12
07/22/10	12	16	17	17	36	31	24	33	26	32	30	33	64	94	23	30	29	21	69	40	24	49	14	24
07/23/10	0	0	0	25	24	25	20	19	35	30	40	46	40	55	58	61	66	53	17	31	53	30	22	25
07/24/10	25	26	22	21	27	21	21	15	26	27	90	67	42	72	78	66	25	17	39	30	23	30	24	28
07/25/10	32	29	21	31	18	23	17	14	12	15	40	47	78	53	23	42	21	24	18	19	21	14	18	17
07/26/10	17	19	17	19	16	17	17	15	13	28	25	INV	INV	28	76	58	97	35	17	21	18	16	17	18
07/27/10	17	16	18	22	15	18	20	19	29	38	44	50	38	44	39	55	46	18	15	47	84	32	19	18
07/28/10	25	23	39	14	22	13	14	29	26	59	53	35	30	56	48	44	91	84	23	20	20	53	24	37
07/29/10	27	16	16	15	14	24	20	15	13	18	15	28	35	36	63	43	26	15	16	13	76	47	28	16
07/30/10	29	16	17	54	28	39	17	19	16	66	27	34	33	30	40	46	57	44	42	29	33	28	32	17
07/31/10	22	29	29	46	20	18	25	16	19	39	42	44	27	34	46	93	59	53	24	22	49	16	30	14

Total Number of Observations: 742 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	34	16	7	0	11	0	0	12	14	52	62	35	49	58	59	68	75	64	59	38	20	30	15	44
08/02/10	67	4	25	22	21	29	27	17	78	27	32	43	73	48	72	35	39	53	60	37	23	3	28	12
08/03/10	28	17	24	28	25	12	12	24	31	43	42	77	67	76	61	72	74	57	59	40	47	19	16	14
08/04/10	23	20	12	53	32	15	7	12	25	73	21	45	89	72	61	68	82	56	72	59	26	19	27	40
08/05/10	37	51	21	10	9	17	13	20	26	21	78	73	70	79	53	47	36	66	72	35	31	14	16	23
08/06/10	21	17	18	17	16	20	17	13	19	21	32	49	75	61	54	47	38	53	52	60	31	16	44	51
08/07/10	30	11	30	24	18	16	18	59	80	28	40	32	27	45	58	55	52	54	36	61	44	48	55	55
08/08/10	29	18	22	21	22	19	12	21	28	33	39	81	89	79	61	61	69	56	48	47	30	48	17	24
08/09/10	18	14	27	19	52	2	33	18	44	30	34	45	41	51	48	50	67	74	56	69	13	9	25	2
08/10/10	0	3	23	5	23	10	1	22	32	58	70	59	62	68	61	82	61	46	40	83	33	20	42	21
08/11/10	11	51	64	26	5	34	54	30	44	40	23	57	53	79	64	78	77	62	97	49	69	26	39	44
08/12/10	51	18	15	21	41	32	27	17	23	51	30	68	67	54	58	72	79	76	71	42	81	34	45	49
08/13/10	25	0	53	32	3	1	7	11	53	68	29	60	58	54	67	61	70	83	76	54	23	38	30	26
08/14/10	22	40	23	20	60	34	35	90	35	48	59	23	28	36	42	42	50	53	49	19	13	14	33	75
08/15/10	51	53	29	33	55	52	71	26	39	16	24	30	33	41	51	47	40	45	32	44	29	12	40	25
08/16/10	21	18	15	16	67	50	18	21	18	15	12	29	37	48	53	56	70	62	27	69	16	13	38	7
08/17/10	25	14	8	9	5	15	28	29	22	34	89	43	60	29	59	51	87	41	39	26	28	24	39	46
08/18/10	29	19	19	23	24	10	9	14	21	18	32	58	59	59	54	78	74	62	46	58	36	73	61	35
08/19/10	0	0	0	0	27	15	14	22	26	35	62	73	74	55	67	52	62	83	66	75	26	19	44	18
08/20/10	18	30	30	29	20	58	10	44	18	26	28	34	38	48	53	58	76	75	72	41	17	29	19	21
08/21/10	30	26	18	23	38	33	18	27	25	22	20	34	39	55	44	39	54	61	35	64	30	24	49	49
08/22/10	11	12	13	13	25	16	14	17	21	29	27	76	42	50	66	53	50	68	83	27	32	0	26	27
08/23/10	6	12	40	20	24	22	21	29	24	20	35	86	69	68	51	51	57	51	59	86	34	81	28	35
08/24/10	27	37	17	19	24	23	17	17	21	19	16	34	35	50	48	29	16	15	11	10	15	16	20	19
08/25/10	12	10	12	14	24	12	12	19	20	25	26	17	16	20	16	19	16	17	13	14	13	13	14	14
08/26/10	11	13	24	15	19	23	16	9	21	15	15	18	19	34	24	32	35	25	30	46	19	55	27	14
08/27/10	28	66	13	12	10	16	21	18	19	28	63	65	59	45	49	67	34	35	39	27	29	38	23	55
08/28/10	16	30	29	17	10	19	17	23	15	35	30	40	55	52	41	81	55	26	31	14	46	24	21	37
08/29/10	19	22	12	20	31	10	22	23	28	24	27	28	21	75	72	33	25	32	43	43	15	15	14	15
08/30/10	4	0	0	0	0	0	0	0	0	0	16	24	21	30	27	45	50	42	38	30	45	43	59	19
08/31/10	26	22	21	15	0	0	0	0	24	78	58	49	42	59	66	84	62	85	94	87	36	27	28	24

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

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	59	33	24	26	16	23	25	41	13	18	62	56	46	66	80	55	49	48	80	51	20	24	24	22
09/02/10	30	22	11	17	17	30	27	35	29	33	47	36	47	51	62	46	45	55	45	50	31	20	57	56
09/03/10	67	44	36	29	25	45	22	27	14	12	26	21	24	21	33	31	36	40	22	20	19	25	13	14
09/04/10	13	23	15	17	22	17	20	11	12	11	11	43	44	66	41	60	63	88	28	18	25	25	12	18
09/05/10	15	13	13	17	13	14	14	17	37	34	36	62	52	80	62	70	75	75	93	90	39	43	18	27
09/06/10	52	57	20	30	34	39	55	65	42	34	33	51	48	91	55	64	80	82	22	65	60	4	0	29
09/07/10	10	14	0	9	16	51	33	36	55	26	40	36	40	62	54	61	74	40	53	38	17	18	18	12
09/08/10	18	18	3	47	31	27	67	23	29	19	48	28	26	40	30	52	44	43	47	49	64	63	25	17
09/09/10	18	20	18	28	21	21	17	14	20	29	39	32	44	47	52	60	73	75	45	23	31	44	41	34
09/10/10	41	68	41	57	27	10	20	30	28	27	37	73	53	45	81	67	69	50	74	61	54	22	26	35
09/11/10	66	21	17	19	16	16	24	23	20	87	38	38	54	47	45	45	42	36	21	21	28	77	17	30
09/12/10	12	22	20	13	18	20	16	26	21	15	36	25	33	58	38	56	41	38	27	12	91	18	20	12
09/13/10	0	0	15	21	20	16	34	21	17	55	40	97	40	79	60	67	59	72	31	23	16	24	30	42
09/14/10	47	31	48	41	17	22	30	17	26	35	34	55	45	55	55	57	62	44	34	26	32	25	34	60
09/15/10	24	23	34	31	35	29	18	22	29	94	29	47	50	63	62	69	62	77	60	52	23	33	28	26
09/16/10	33	36	0	18	23	14	24	26	29	48	78	43	47	71	70	47	61	63	39	21	16	30	67	49
09/17/10	44	21	33	61	50	14	20	25	20	19	21	78	68	60	75	58	56	79	57	27	13	41	20	22
09/18/10	27	26	25	32	22	20	27	23	15	13	14	41	58	96	68	74	40	54	22	23	29	55	24	34
09/19/10	22	23	23	23	25	23	24	12	15	19	14	43	37	34	32	25	21	17	15	15	12	10	10	12
09/20/10	12	12	11	18	15	21	17	19	25	25	23	21	34	35	59	64	65	73	72	78	49	12	14	20
09/21/10	44	73	36	28	27	21	62	63	29	25	26	41	46	46	48	47	58	54	49	26	35	39	43	35
09/22/10	19	17	14	26	45	16	21	31	15	27	33	31	42	46	25	27	27	25	14	15	24	31	32	21
09/23/10	30	74	44	43	40	24	69	34	32	23	48	85	44	80	71	74	77	47	40	38	70	18	20	15
09/24/10	30	23	34	24	16	17	15	15	29	22	12	16	77	45	69	88	55	36	15	55	28	36	19	16
09/25/10	19	12	12	20	41	15	19	28	20	12	11	16	59	25	28	44	21	17	17	25	16	9	18	37
09/26/10	23	27	32	21	27	24	21	23	18	19	19	18	21	19	24	22	24	19	15	24	37	22	20	12
09/27/10	19	28	18	9	16	19	17	16	17	11	14	13	36	27	52	21	27	14	24	29	27	14	18	21
09/28/10	21	26	20	16	23	21	24	16	14	46	25	81	75	58	37	60	70	17	12	76	19	23	24	29
09/29/10	28	17	20	29	25	19	17	16	19	20	31	33	26	46	40	47	30	26	15	14	29	43	22	17
09/30/10	16	32	29	24	15	24	40	28	21	19	33	22	22	24	35	38	23	30	27	50	18	12	15	18

Total Number of Observations: 720 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-C

HOURLY DIFFERENTIAL TEMPERATURE DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	24.7	24.9	24.8	24.5	23.7	23.1	23.7	25.1	26.7	28.3	29.9	30.9	31.8	32.8	33.1	32.7	33.1	32.8	32.6	32.2	30.8	28.9	28.3	28.4	33.1	23.1	28.7
07/02/10	28.8	29.0	28.2	27.4	27.3	26.9	27.0	27.6	28.6	29.7	30.6	31.6	33.1	31.2	31.2	33.0	34.3	34.5	34.3	33.5	31.4	29.7	28.8	28.0	34.5	26.9	30.2
07/03/10	27.8	28.9	27.7	27.0	25.4	25.8	25.0	25.0	25.5	26.1	27.3	28.5	29.0	29.5	30.2	30.8	30.8	30.2	29.8	29.0	28.1	27.4	26.5	25.7	30.8	25.0	27.8
07/04/10	24.9	23.7	22.7	22.3	21.5	21.0	21.0	21.2	21.9	23.2	24.4	25.5	26.4	27.5	28.2	28.5	28.7	28.7	28.5	28.0	27.6	26.9	26.5	26.6	28.7	21.0	25.2
07/05/10	26.1	24.8	23.8	23.4	22.8	22.8	22.9	23.3	23.6	24.7	25.9	26.9	27.9	28.7	29.4	30.0	30.0	29.8	29.4	28.8	28.1	27.8	27.5	27.5	30.0	22.8	26.5
07/06/10	26.7	26.1	25.4	24.6	22.8	22.3	22.1	24.3	25.3	25.9	27.0	28.4	29.5	30.2	30.7	31.0	31.2	30.9	30.3	29.7	29.2	28.6	26.9	26.6	31.2	22.1	27.3
07/07/10	26.3	25.7	26.2	26.5	25.2	24.8	25.0	26.2	27.5	27.2	28.9	30.6	31.6	32.2	32.0	32.4	32.5	32.4	31.9	29.9	28.7	28.2	27.2	26.4	32.5	24.8	28.6
07/08/10	26.4	26.8	26.1	25.3	24.6	24.4	24.5	26.4	27.5	28.4	29.9	30.8	31.6	32.1	32.8	33.3	34.2	32.4	31.8	30.6	29.9	29.4	28.8	28.0	34.2	24.4	29.0
07/09/10	27.5	27.4	27.8	27.1	27.3	27.2	27.0	27.6	28.5	29.0	30.0	31.1	31.5	31.3	32.4	32.7	32.9	33.0	32.9	32.1	30.5	30.3	29.6	29.0	33.0	27.0	29.8
07/10/10	28.2	28.5	27.3	27.2	26.5	26.4	26.1	26.3	28.1	28.9	30.3	31.4	32.1	32.9	31.7	24.1	24.1	24.3	25.0	26.2	26.4	26.8	25.9	25.8	32.9	24.1	27.5
07/11/10	24.7	24.4	23.9	23.4	22.8	22.1	22.4	23.8	25.2	26.7	27.8	28.9	29.6	30.3	31.3	31.4	31.5	29.6	27.4	27.3	26.5	26.7	26.7	25.6	31.5	22.1	26.7
07/12/10	25.3	24.9	24.3	23.8	23.6	23.5	23.4	23.4	24.1	25.3	26.7	27.9	29.0	29.8	30.6	31.0	31.3	31.3	31.2	30.6	30.1	29.8	29.9	29.3	31.3	23.4	27.5
07/13/10	28.4	27.8	27.0	26.4	25.8	25.4	25.4	25.8	26.4	27.5	28.6	30.0	31.0	31.9	32.4	32.8	32.8	32.8	32.5	31.6	31.3	31.0	30.1	29.7	32.8	25.4	29.3
07/14/10	29.6	27.0	26.9	26.5	26.6	26.6	26.4	26.3	27.2	28.4	29.3	30.3	31.5	32.5	28.8	23.8	25.1	27.4	28.6	27.7	27.6	27.4	27.8	27.3	32.5	23.8	27.8
07/15/10	26.7	26.3	26.1	26.1	27.4	25.8	26.4	27.3	29.8	30.2	31.3	32.5	33.5	34.3	34.7	35.0	35.4	34.6	31.2	30.3	30.3	29.8	28.9	28.2	35.4	25.8	30.1
07/16/10	27.3	26.9	26.5	25.8	26.1	25.8	25.4	26.1	27.1	28.0	28.5	28.9	29.2	30.5	31.7	32.5	33.1	33.5	32.6	31.4	27.6	21.2	22.4	23.1	33.5	21.2	27.9
07/17/10	24.2	23.4	22.9	22.7	23.6	24.2	24.1	25.7	27.1	28.1	29.0	30.0	30.8	31.6	32.3	33.0	33.2	33.4	32.9	32.3	31.8	30.7	26.6	26.1	33.4	22.7	28.3
07/18/10	25.0	23.0	23.2	23.8	25.1	26.7	26.3	26.3	26.9	28.2	29.3	29.7	30.2	30.4	31.1	31.7	32.0	32.2	31.1	30.0	31.2	30.8	28.4	27.6	32.2	23.0	28.3
07/19/10	27.6	28.5	29.3	28.4	27.8	27.1	27.1	27.2	27.6	28.5	30.0	30.9	31.8	32.5	33.0	33.4	33.5	33.4	33.1	32.4	31.9	31.8	30.3	27.9	33.5	27.1	30.2
07/20/10	26.9	26.0	23.9	22.7	23.3	23.5	23.7	25.5	27.4	28.8	29.5	30.2	31.1	31.9	32.4	32.7	32.5	32.5	32.0	31.6	31.1	30.6	30.4	30.1	32.7	22.7	28.7
07/21/10	29.8	29.6	28.9	28.0	27.5	26.9	26.3	27.6	27.7	28.0	28.1	28.2	29.0	28.9	30.2	30.6	31.0	31.0	30.6	29.6	27.9	27.1	27.0	24.6	31.0	24.6	28.5
07/22/10	21.1	20.2	19.8	20.4	20.0	19.7	19.6	20.4	21.2	21.9	22.7	23.8	24.7	25.8	26.2	26.7	26.9	26.4	24.8	23.5	23.6	23.0	22.9	23.1	26.9	19.6	22.8
07/23/10	22.8	22.4	21.9	21.4	21.2	21.4	21.6	22.6	24.2	24.8	25.9	26.4	26.5	26.8	27.5	27.8	28.1	27.9	26.7	25.8	25.2	24.1	23.8	23.7	28.1	21.2	24.6
07/24/10	22.7	22.5	22.8	22.2	22.1	22.0	22.5	23.7	24.8	25.9	27.1	27.1	28.1	28.7	30.2	30.2	24.8	21.8	22.0	21.9	22.5	22.2	22.9	23.6	30.2	21.8	24.3
07/25/10	23.3	22.8	22.5	22.8	22.4	22.5	22.9	23.9	24.7	26.2	27.6	28.4	28.9	29.3	28.9	28.4	27.2	25.9	25.2	24.2	24.0	23.7	23.6	23.2	29.3	22.4	25.1
07/26/10	22.7	22.2	22.1	21.7	21.7	21.6	21.7	22.2	23.3	24.0	25.4	INV	INV	26.8	28.0	29.1	28.4	27.1	26.9	25.3	24.5	24.0	23.8	23.7	29.1	21.6	24.4
07/27/10	23.5	23.7	23.7	23.5	23.1	23.3	23.1	23.8	24.7	25.3	24.6	26.3	27.0	27.1	28.4	27.8	26.7	27.5	27.5	25.9	24.7	23.7	23.5	23.1	28.4	23.1	25.0
07/28/10	22.6	22.7	22.7	21.9	22.0	21.6	21.8	23.1	24.2	25.4	25.7	26.1	26.6	27.8	28.7	29.2	23.4	21.8	21.0	21.8	21.6	22.8	22.4	22.2	29.2	21.0	23.7
07/29/10	22.3	21.3	20.7	21.1	21.1	20.9	21.2	22.2	22.9	23.9	25.0	26.5	27.3	28.2	29.0	26.7	24.8	23.8	24.1	23.8	23.8	23.9	24.3	23.6	29.0	20.7	23.9
07/30/10	23.5	21.4	20.5	20.1	20.3	20.4	20.6	21.1	22.9	23.5	23.5	23.7	24.4	25.2	25.9	26.4	26.2	25.8	25.1	23.8	23.2	22.9	22.9	21.0	26.4	20.1	23.1
07/31/10	20.6	20.1	19.8	20.0	19.7	20.0	20.0	19.5	19.2	19.7	19.8	20.9	21.5	22.8	23.0	22.4	21.1	21.1	20.9	20.6	20.1	19.5	19.7	19.8	23.0	19.2	20.5
Hourly Averages	25.4	24.9	24.5	24.1	23.9	23.7	23.7	24.5	25.5	26.4	27.4	28.4	29.2	29.7	30.2	30.0	29.7	29.4	28.8	28.1	27.5	26.8	26.3	25.7			

Maximum Hourly Temperature: 35.4 **Minimum Hourly Temperature:** 19.2 **Average Monthly Temperature:** 26.8

Maximum 24-Hour Mean: 30.2 **Minimum 24-Hour Mean:** 20.5

Total Number of Observations: 742 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	24.5	24.8	24.7	24.5	23.6	23.1	24.1	25.9	27.9	29.8	31.1	32.3	33.1	34.2	34.1	33.9	34.0	33.1	32.7	32.2	30.9	28.9	28.3	28.4	34.2	23.1	29.2
07/02/10	28.7	28.7	28.1	27.4	27.2	26.9	27.2	28.1	29.4	30.8	31.7	32.9	34.4	31.5	32.0	33.8	35.0	34.9	34.5	33.4	31.3	29.3	28.4	27.5	35.0	26.9	30.5
07/03/10	27.0	28.1	27.0	26.4	24.9	25.5	25.1	25.5	26.2	26.9	28.3	29.5	30.1	30.5	31.1	31.7	31.5	30.7	30.0	29.0	28.0	27.2	26.4	25.6	31.7	24.9	28.0
07/04/10	24.7	23.6	22.6	22.2	21.5	20.9	21.1	21.6	22.5	24.1	25.5	26.7	27.5	28.5	29.2	29.5	29.5	29.3	28.8	28.0	27.5	26.8	26.2	26.4	29.5	20.9	25.6
07/05/10	26.0	24.7	23.8	23.3	22.5	22.4	22.9	23.6	24.1	25.4	26.7	27.8	28.8	29.5	30.3	31.0	30.7	30.4	29.6	28.8	28.1	27.7	27.3	27.4	31.0	22.4	26.8
07/06/10	26.6	26.0	25.2	24.5	22.8	22.3	22.3	24.8	25.7	26.7	27.7	29.3	30.7	31.3	31.7	32.0	32.0	31.5	30.6	29.6	29.1	28.2	26.4	25.7	32.0	22.3	27.6
07/07/10	25.6	25.0	25.6	26.0	24.3	24.3	24.9	26.9	28.2	27.7	29.6	31.7	32.7	33.3	33.2	33.4	33.3	33.0	32.2	30.0	28.7	28.0	27.1	26.2	33.4	24.3	28.8
07/08/10	26.2	26.6	26.0	25.2	24.5	24.3	24.7	26.9	28.2	29.4	31.1	32.0	33.0	33.5	34.1	34.4	35.4	32.9	32.0	30.7	29.9	29.5	28.8	28.0	35.4	24.3	29.5
07/09/10	27.5	27.3	27.7	27.1	27.4	27.2	27.2	28.0	29.3	29.9	31.2	32.5	33.2	33.2	34.4	34.0	33.4	33.3	33.0	32.2	30.6	30.2	29.6	29.0	34.4	27.1	30.3
07/10/10	28.1	28.3	27.2	27.1	26.6	26.3	26.3	26.8	29.3	30.5	31.5	32.7	32.9	33.9	32.2	23.8	23.4	23.9	24.8	25.9	26.1	26.5	25.6	25.5	33.9	23.4	27.7
07/11/10	24.5	24.2	23.8	23.3	22.6	22.0	22.5	24.4	25.9	27.6	28.9	30.0	30.7	31.3	32.3	32.2	32.1	30.4	27.9	27.3	26.5	26.7	26.7	25.6	32.3	22.0	27.0
07/12/10	25.2	24.9	24.3	23.9	23.6	23.5	23.5	23.6	24.7	26.1	27.5	28.9	30.0	30.9	31.5	31.9	31.9	31.9	31.4	30.6	30.1	29.8	29.9	29.2	31.9	23.5	27.9
07/13/10	28.4	27.7	27.0	26.4	25.7	25.2	25.4	26.1	26.8	28.2	29.4	30.9	32.0	32.8	33.3	33.7	33.5	33.3	32.8	31.7	31.3	30.9	29.9	29.3	33.7	25.2	29.6
07/14/10	29.2	26.8	26.6	26.3	26.4	26.4	26.4	26.4	27.8	29.3	30.2	31.2	32.6	33.7	28.8	23.7	25.0	27.4	28.4	27.6	27.4	27.2	27.4	27.0	33.7	23.7	27.9
07/15/10	26.4	26.0	25.7	25.6	26.6	25.2	25.8	27.4	30.5	31.0	32.0	33.6	34.6	35.6	36.0	36.0	36.3	35.3	31.7	30.5	30.3	29.8	28.9	28.1	36.3	25.2	30.4
07/16/10	27.3	26.8	26.5	25.7	26.0	25.7	25.4	26.3	27.6	28.7	29.2	29.5	30.0	31.6	32.9	33.6	33.7	34.0	32.8	31.4	27.7	20.2	21.4	22.8	34.0	20.2	28.2
07/17/10	23.9	23.3	22.7	22.5	23.3	24.0	24.1	26.4	27.9	29.0	29.9	31.1	32.1	33.0	33.4	34.0	34.2	34.4	33.2	32.4	31.9	30.7	26.7	26.1	34.4	22.5	28.7
07/18/10	25.1	23.2	23.2	23.7	25.0	26.6	26.4	26.8	27.7	29.0	30.3	30.9	31.4	31.5	32.1	32.6	33.0	33.3	31.5	29.6	31.2	30.7	28.3	27.5	33.3	23.2	28.8
07/19/10	27.2	27.5	28.8	28.4	27.6	26.8	27.0	27.6	28.5	29.3	31.0	31.8	33.0	33.7	34.2	34.4	34.6	34.5	33.5	32.5	31.9	31.8	30.3	28.0	34.6	26.8	30.6
07/20/10	27.0	26.1	24.0	22.6	23.2	23.5	24.3	26.5	28.8	29.8	30.6	31.4	32.4	33.3	33.7	33.9	33.6	33.6	32.3	31.7	31.1	30.6	30.3	29.9	33.9	22.6	29.3
07/21/10	29.7	29.4	28.8	27.9	27.2	26.5	26.5	28.7	28.3	29.0	29.2	29.2	29.9	29.8	31.4	31.6	31.9	31.5	30.9	29.7	28.1	27.2	27.1	24.5	31.9	24.5	28.9
07/22/10	20.5	20.0	19.7	19.9	19.8	19.6	19.7	21.0	21.7	22.5	23.8	24.8	26.1	27.5	27.6	27.7	27.6	26.8	24.7	23.5	23.6	23.0	22.9	23.0	27.7	19.6	23.2
07/23/10	22.7	22.4	21.9	21.4	21.2	21.4	21.7	23.2	25.2	25.8	27.0	27.5	27.5	28.0	28.8	28.8	29.2	29.3	27.3	25.9	25.2	24.1	23.9	23.6	29.3	21.2	25.1
07/24/10	22.7	22.5	22.7	22.3	22.1	22.0	23.1	24.9	25.8	27.0	28.3	28.1	29.8	30.1	31.8	31.1	24.8	21.8	21.8	21.8	22.4	22.1	22.8	23.5	31.8	21.8	24.8
07/25/10	23.2	22.6	22.3	22.5	22.3	22.4	23.6	24.9	25.9	27.8	29.1	29.9	30.0	30.0	29.8	29.4	28.1	26.2	25.4	24.4	24.1	23.9	23.6	23.3	30.0	22.3	25.6
07/26/10	22.7	22.3	22.2	21.8	21.8	21.7	21.9	22.5	24.1	24.8	26.5	INV	INV	27.5	29.2	30.1	29.2	27.6	27.3	25.5	24.7	24.2	23.9	23.8	30.1	21.7	24.8
07/27/10	23.6	23.8	23.8	23.6	23.2	23.3	23.1	23.9	25.3	26.1	25.4	27.6	28.1	27.8	29.6	28.2	27.1	27.8	27.7	26.1	24.8	23.8	23.5	23.2	29.6	23.1	25.4
07/28/10	22.7	22.8	22.7	21.8	21.9	21.5	21.9	23.7	25.0	26.5	26.5	26.7	27.1	28.6	29.4	29.9	23.6	21.6	21.0	21.7	21.4	22.4	22.1	22.0	29.9	21.0	23.9
07/29/10	22.1	21.3	20.7	21.0	21.0	20.8	21.3	22.6	23.4	24.6	26.4	28.0	28.4	29.2	29.9	27.2	25.0	24.0	24.2	23.8	23.7	23.7	24.2	23.5	29.9	20.7	24.2
07/30/10	23.5	21.6	20.6	20.1	20.3	20.3	20.7	21.2	23.8	24.0	24.0	24.4	25.0	25.8	26.6	26.9	26.5	25.9	25.0	23.8	23.2	22.9	22.9	21.1	26.9	20.1	23.3
07/31/10	20.7	20.2	19.9	20.0	19.8	20.1	20.1	19.6	19.4	20.0	20.2	21.5	22.1	23.5	23.5	22.6	21.2	21.1	21.0	20.7	20.2	19.6	19.8	19.9	23.5	19.4	20.7
Hourly Averages	25.3	24.8	24.4	24.0	23.7	23.6	23.9	25.0	26.3	27.3	28.4	29.5	30.3	30.8	31.2	30.9	30.3	29.8	29.0	28.1	27.4	26.7	26.1	25.6			

Maximum Hourly Temperature: 36.3 **Minimum Hourly Temperature:** 19.4 **Average Monthly Temperature:** 27.2

Maximum 24-Hour Mean: 30.6 **Minimum 24-Hour Mean:** 20.7

Total Number of Observations: 742 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	0.191	0.183	0.097	0.058	0.041	-0.006	-0.336	-0.753	-1.200	-1.484	-1.246	-1.349	-1.361	-1.423	-0.968	-1.261	-0.958	-0.299	-0.100	0.039	-0.029	-0.058	-0.027	0.028	0.191	-1.484	-0.509
07/02/10	0.128	0.283	0.075	0.047	0.059	0.037	-0.206	-0.475	-0.785	-1.030	-1.142	-1.294	-1.305	0.000	-0.800	-0.865	-0.617	-0.352	-0.180	0.081	0.148	0.328	0.387	0.518	0.518	-1.305	-0.290
07/03/10	0.843	0.772	0.699	0.639	0.474	0.353	-0.040	-0.444	-0.641	-0.741	-0.979	-1.037	-1.114	-0.987	-0.949	-0.839	-0.667	-0.467	-0.188	0.042	0.088	0.157	0.125	0.138	0.843	-1.114	-0.198
07/04/10	0.153	0.083	0.171	0.074	0.064	0.127	-0.101	-0.434	-0.612	-0.878	-1.145	-1.221	-1.131	-1.087	-1.024	-0.992	-0.871	-0.563	-0.279	-0.019	0.058	0.127	0.254	0.182	0.254	-1.221	-0.378
07/05/10	0.094	0.073	0.017	0.094	0.357	0.377	0.016	-0.356	-0.555	-0.727	-0.801	-0.912	-0.988	-0.867	-0.929	-0.995	-0.771	-0.512	-0.175	-0.022	0.050	0.065	0.115	0.123	0.377	-0.995	-0.301
07/06/10	0.117	0.083	0.156	0.101	0.039	0.050	-0.147	-0.484	-0.457	-0.805	-0.646	-0.907	-1.194	-1.113	-0.946	-0.980	-0.810	-0.609	-0.241	0.023	0.109	0.395	0.458	0.911	0.911	-1.194	-0.287
07/07/10	0.648	0.719	0.602	0.547	0.921	0.487	0.030	-0.660	-0.765	-0.494	-0.696	-1.030	-1.093	-1.098	-1.115	-1.012	-0.827	-0.587	-0.282	-0.095	0.086	0.158	0.086	0.184	0.921	-1.115	-0.220
07/08/10	0.236	0.194	0.161	0.175	0.166	0.090	-0.180	-0.478	-0.678	-0.970	-1.154	-1.255	-1.342	-1.379	-1.259	-1.116	-1.208	-0.485	-0.218	-0.066	-0.027	-0.052	-0.057	-0.039	0.236	-1.379	-0.456
07/09/10	0.010	0.039	0.032	-0.008	-0.020	-0.051	-0.107	-0.404	-0.832	-0.885	-1.249	-1.387	-1.735	-1.860	-1.998	-1.291	-0.513	-0.290	-0.137	-0.024	-0.042	0.075	0.009	0.010	0.075	-1.998	-0.527
07/10/10	0.069	0.191	0.150	0.102	-0.004	0.047	-0.143	-0.541	-1.135	-1.580	-1.174	-1.348	-0.802	-1.014	-0.501	0.000	0.000	0.368	0.223	0.300	0.338	0.288	0.283	0.283	0.368	-1.580	-0.233
07/11/10	0.197	0.224	0.114	0.133	0.128	0.056	-0.023	-0.549	-0.666	-0.841	-1.052	-1.107	-1.137	-1.026	-1.038	-0.819	-0.618	-0.720	-0.462	-0.037	0.014	0.071	0.021	-0.008	0.224	-1.137	-0.381
07/12/10	0.117	-0.005	-0.024	-0.069	-0.029	0.000	-0.082	-0.239	-0.611	-0.809	-0.850	-1.019	-1.067	-1.010	-0.954	-0.876	-0.677	-0.514	-0.192	-0.028	0.039	0.035	0.041	0.049	0.117	-1.067	-0.366
07/13/10	0.027	0.067	0.022	0.017	0.080	0.188	0.030	-0.266	-0.366	-0.665	-0.747	-0.946	-0.964	-0.951	-0.973	-0.908	-0.703	-0.478	-0.279	-0.052	-0.009	0.054	0.188	0.385	0.385	-0.973	-0.302
07/14/10	0.317	0.266	0.370	0.205	0.250	0.194	0.067	-0.118	-0.636	-0.861	-0.880	-0.898	-1.106	-1.141	0.000	0.000	0.000	-0.033	0.215	0.118	0.161	0.237	0.385	0.348	0.385	-1.141	-0.106
07/15/10	0.317	0.341	0.421	0.547	0.794	0.602	0.576	-0.110	-0.682	-0.728	-0.731	-1.134	-1.110	-1.369	-1.312	-0.957	-0.939	-0.660	-0.532	-0.166	0.040	-0.038	-0.015	0.032	0.794	-1.369	-0.284
07/16/10	-0.028	0.068	0.006	0.018	0.073	0.040	-0.044	-0.241	-0.499	-0.690	-0.743	-0.665	-0.802	-1.041	-1.182	-1.083	-0.663	-0.516	-0.176	-0.058	-0.155	0.000	0.986	0.326	0.986	-1.182	-0.295
07/17/10	0.268	0.157	0.174	0.164	0.311	0.268	0.025	-0.689	-0.830	-0.911	-0.960	-1.162	-1.276	-1.325	-1.087	-1.014	-1.007	-0.935	-0.319	-0.071	-0.030	-0.006	-0.091	-0.084	0.311	-1.325	-0.435
07/18/10	-0.137	-0.177	-0.064	0.038	0.184	0.098	-0.069	-0.557	-0.733	-0.763	-1.057	-1.121	-1.252	-1.077	-1.078	-0.943	-1.042	-1.063	0.000	0.000	0.032	0.141	0.136	0.077	0.184	-1.252	-0.434
07/19/10	0.342	1.027	0.425	0.045	0.231	0.260	0.135	-0.418	-0.817	-0.856	-1.011	-0.990	-1.202	-1.173	-1.165	-1.005	-1.022	-1.077	-0.344	-0.075	-0.035	-0.010	0.033	-0.120	1.027	-1.202	-0.368
07/20/10	-0.094	-0.125	0.000	0.092	0.076	0.013	-0.554	-1.048	-1.354	-0.997	-1.170	-1.186	-1.327	-1.399	-1.297	-1.252	-1.049	-1.155	-0.342	-0.095	0.034	0.046	0.096	0.120	0.120	-1.399	-0.582
07/21/10	0.131	0.162	0.080	0.041	0.295	0.359	-0.270	-1.160	-0.586	-0.964	-1.097	-1.023	-0.929	-0.876	-1.209	-1.071	-0.894	-0.546	-0.267	-0.121	-0.133	-0.120	-0.084	0.000	0.359	-1.209	-0.428
07/22/10	0.000	0.000	0.000	0.000	0.000	0.000	-0.069	-0.584	-0.474	-0.693	-1.045	-1.008	-1.397	-1.692	-1.369	-0.978	-0.729	-0.355	0.058	0.000	0.044	0.016	-0.010	0.110	0.110	-1.692	-0.424
07/23/10	0.053	0.027	-0.015	0.046	0.033	0.020	-0.129	-0.655	-0.951	-0.985	-1.149	-1.112	-1.040	-1.222	-1.366	-1.039	-1.124	-1.469	-0.644	-0.078	-0.017	0.013	-0.059	0.037	0.053	-1.469	-0.534
07/24/10	-0.029	0.015	0.082	-0.027	0.048	-0.010	-0.626	-1.230	-1.017	-1.038	-1.223	-1.039	-1.754	-1.354	-1.673	-0.923	0.000	0.000	0.000	0.000	0.132	0.049	0.084	0.101	0.132	-1.754	-0.476
07/25/10	0.154	0.223	0.254	0.288	0.120	0.098	-0.629	-1.053	-1.223	-1.655	-1.470	-1.483	-1.053	-0.718	-0.886	-0.960	-0.852	0.000	-0.200	-0.138	-0.117	-0.152	-0.087	-0.100	0.288	-1.655	-0.485
07/26/10	-0.054	-0.109	-0.106	-0.073	-0.052	-0.055	-0.207	-0.360	-0.827	-0.782	-1.107	INV	INV	-0.665	-1.151	-1.001	-0.758	-0.552	-0.374	-0.213	-0.114	-0.136	-0.143	-0.127	-0.052	-1.151	-0.408
07/27/10	-0.086	-0.103	-0.099	-0.059	-0.090	-0.039	0.000	-0.067	-0.577	-0.802	-0.813	-1.363	-1.056	-0.674	-1.225	-0.475	-0.478	-0.336	-0.194	-0.189	-0.180	-0.148	-0.047	-0.070	0.000	-1.363	-0.382
07/28/10	-0.112	-0.060	0.052	0.030	0.096	0.088	-0.133	-0.648	-0.746	-1.092	-0.835	-0.622	-0.534	-0.787	-0.722	-0.688	0.000	0.000	0.000	0.000	0.000	0.000	0.455	0.248	0.188	0.455	-1.092	-0.243
07/29/10	0.111	0.051	0.037	0.093	0.094	0.100	-0.055	-0.378	-0.548	-0.758	-1.406	-1.540	-1.058	-0.976	-0.928	-0.466	-0.185	-0.171	-0.080	0.016	0.089	0.125	0.113	0.070	0.125	-1.540	-0.319
07/30/10	0.010	-0.168	0.000	0.000	0.038	0.120	-0.054	-0.189	-0.902	-0.520	-0.562	-0.682	-0.626	-0.643	-0.647	-0.542	-0.286	-0.056	0.000	0.040	0.000	0.047	0.065	-0.149	0.120	-0.902	-0.238
07/31/10	-0.110	-0.065	-0.055	-0.037	-0.063	-0.088	-0.131	0.000	0.000	-0.287	-0.311	-0.671	-0.644	-0.716	-0.571	-0.272	0.000	0.000	0.000	0.000	0.000	0.000	-0.064	-0.074	0.000	-0.716	-0.173
Hourly Averages	0.125	0.143	0.124	0.107	0.152	0.123	-0.111	-0.503	-0.732	-0.880	-0.982	-1.084	-1.113	-1.054	-1.043	-0.859	-0.654	-0.466	-0.184	-0.029	0.019	0.070	0.111	0.111			

Maximum Hourly Differential Temperature: 1.027 **Minimum Hourly Differential Temperature:** -1.998

Total Number of Observations: 742 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	20.3	20.2	19.9	20.0	19.9	19.9	20.0	20.3	20.7	21.6	22.8	23.3	23.8	24.9	25.5	26.1	25.7	25.2	24.6	23.7	23.2	22.5	21.8	21.6	26.1	19.9	22.4
08/02/10	21.9	21.2	21.1	20.8	21.3	20.7	21.1	22.6	24.6	25.0	25.7	26.5	27.6	28.3	28.6	28.8	28.9	28.5	28.2	27.8	27.3	25.9	25.3	25.2	28.9	20.7	25.1
08/03/10	24.5	24.3	23.9	23.0	22.8	22.7	22.6	24.3	26.8	28.0	28.9	29.8	30.2	30.6	31.2	31.5	31.6	31.5	31.2	30.6	30.0	27.9	28.0	27.5	31.6	22.6	27.6
08/04/10	26.8	26.5	26.2	25.6	24.9	24.3	24.8	25.6	28.5	29.9	30.5	31.3	32.3	32.8	33.1	33.1	33.3	33.1	32.6	32.0	30.3	29.6	28.5	27.3	33.3	24.3	29.3
08/05/10	27.4	26.6	26.4	26.8	26.3	24.9	24.8	26.2	28.3	29.8	31.0	32.2	33.0	33.4	33.7	33.8	33.7	33.6	33.2	32.7	30.3	29.1	26.9	26.6	33.8	24.8	29.6
08/06/10	25.9	25.8	25.4	24.5	24.1	23.5	24.1	25.5	27.0	28.6	29.4	30.3	30.5	31.3	31.5	31.6	31.6	31.6	31.2	30.8	29.8	27.8	27.3	26.4	31.6	23.5	28.1
08/07/10	25.1	24.9	21.9	21.4	21.8	21.4	21.3	22.4	22.9	22.8	23.6	24.8	25.5	26.6	27.5	28.0	28.2	27.9	27.8	27.4	26.4	25.4	25.1	23.4	28.2	21.3	24.7
08/08/10	21.4	19.7	19.7	19.8	19.7	19.8	19.8	21.0	22.2	23.2	24.2	25.2	26.5	27.3	28.0	27.9	28.9	28.8	28.4	26.7	25.8	25.6	24.2	23.5	28.9	19.7	24.1
08/09/10	24.0	23.9	23.6	23.2	22.8	22.6	22.1	23.2	25.6	26.2	27.1	27.7	28.4	28.8	29.2	29.6	29.6	29.7	29.7	29.3	28.8	26.5	25.9	25.6	29.7	22.1	26.4
08/10/10	25.5	25.1	25.5	24.5	24.0	23.5	23.2	24.5	27.0	28.4	29.2	30.0	30.8	31.2	31.6	32.0	31.8	31.5	31.1	30.6	29.7	28.7	27.4	27.1	32.0	23.2	28.1
08/11/10	27.4	27.0	26.2	25.7	24.8	24.4	24.3	25.3	27.2	28.4	29.1	30.5	31.3	32.0	32.5	32.8	32.7	32.4	32.0	31.5	30.8	29.3	28.5	28.3	32.8	24.3	28.9
08/12/10	27.6	28.7	28.0	27.7	26.7	25.9	25.0	26.1	28.2	29.8	30.1	31.1	31.9	32.2	32.5	32.9	33.0	32.7	32.3	31.8	31.3	30.8	29.9	29.2	33.0	25.0	29.8
08/13/10	28.4	28.0	27.2	26.7	26.9	25.9	25.7	26.1	28.4	29.3	30.1	30.9	31.9	32.4	33.0	33.3	33.2	32.9	32.3	31.7	31.5	31.3	31.1	30.8	33.3	25.7	30.0
08/14/10	30.8	30.4	29.4	28.7	27.2	26.3	26.0	27.2	27.6	28.2	29.0	30.3	31.8	32.7	33.2	33.7	33.5	33.2	32.6	31.6	31.0	30.6	30.0	28.9	33.7	26.0	30.2
08/15/10	28.8	27.5	27.2	26.1	25.8	26.2	26.4	26.2	27.6	27.1	28.6	30.2	31.3	32.5	33.2	33.1	33.3	33.3	32.9	31.2	29.5	28.5	27.6	26.5	33.3	25.8	29.2
08/16/10	25.2	24.9	24.1	24.3	24.1	21.6	21.4	22.3	23.8	25.8	26.2	27.2	28.6	29.5	29.8	30.0	30.4	30.4	29.5	29.0	26.1	25.7	26.0	26.4	30.4	21.4	26.3
08/17/10	25.9	25.4	24.8	24.4	23.9	23.9	24.3	25.5	27.2	28.7	29.6	30.2	30.4	28.9	31.9	31.8	27.9	23.6	20.3	21.5	20.9	21.5	21.9	21.6	31.9	20.3	25.7
08/18/10	20.8	20.6	21.8	21.6	21.0	20.0	20.2	22.6	24.8	25.9	27.2	28.5	29.3	29.8	30.0	30.4	30.5	30.3	29.7	29.0	28.3	27.6	27.3	26.1	30.5	20.0	26.0
08/19/10	25.3	24.9	24.9	24.0	23.0	23.0	23.0	25.2	27.2	28.7	29.9	30.6	31.2	31.9	32.4	32.6	32.5	32.2	31.7	31.0	30.7	30.4	29.5	29.2	32.6	23.0	28.5
08/20/10	30.0	29.7	29.3	29.4	28.4	26.2	26.0	26.9	27.6	28.5	29.4	30.7	31.5	32.1	32.8	33.0	33.2	32.9	32.2	31.2	30.8	30.7	30.4	30.3	33.2	26.0	30.1
08/21/10	30.1	29.2	27.0	26.2	25.3	24.8	24.4	24.6	25.2	26.6	27.9	29.1	29.8	30.5	31.1	30.8	31.1	30.7	30.4	29.3	26.7	24.5	19.8	20.0	31.1	19.8	27.3
08/22/10	20.7	20.8	20.9	20.8	20.7	20.4	20.4	21.9	24.1	25.6	26.6	27.6	28.4	29.2	29.3	29.5	29.5	29.4	29.1	28.6	28.0	27.3	27.0	26.1	29.5	20.4	25.5
08/23/10	26.8	27.7	26.4	25.2	25.3	24.8	24.2	26.0	28.1	29.4	30.2	30.9	31.4	32.1	32.6	32.9	33.0	32.9	32.5	31.8	31.3	29.7	28.2	27.6	33.0	24.2	29.2
08/24/10	26.9	27.2	25.9	25.4	25.4	25.2	25.1	27.0	28.5	29.1	30.4	31.7	32.4	33.2	33.6	31.5	28.0	29.1	27.6	26.0	25.1	23.3	21.9	22.1	33.6	21.9	27.6
08/25/10	21.9	22.3	22.5	22.2	22.1	22.2	22.5	23.3	24.1	25.1	25.7	27.0	27.7	28.1	28.5	28.8	28.6	28.5	27.8	27.0	26.4	25.8	25.5	25.3	28.8	21.9	25.4
08/26/10	24.8	24.8	24.0	23.7	23.3	22.8	23.0	23.7	24.8	25.6	26.0	26.9	27.0	27.6	28.0	27.9	28.1	27.7	27.4	26.8	25.0	24.9	24.4	24.2	28.1	22.8	25.5
08/27/10	25.6	25.2	23.1	21.7	21.9	20.2	19.6	20.8	22.4	24.0	25.2	25.6	25.7	25.6	25.0	25.7	24.9	24.8	23.5	20.7	20.5	21.2	21.0	21.4	25.7	19.6	23.1
08/28/10	20.9	20.8	20.8	20.1	20.3	19.9	20.0	20.7	21.6	23.2	24.0	25.1	25.7	26.5	27.4	27.8	27.5	26.0	24.3	23.8	22.1	20.4	20.6	21.9	27.8	19.9	23.0
08/29/10	23.4	22.6	22.0	21.9	21.6	20.9	21.2	21.9	23.1	23.9	24.4	25.1	25.5	24.3	26.7	25.5	26.7	26.9	19.7	22.3	23.8	23.4	22.8	22.1	26.9	19.7	23.4
08/30/10	21.9	21.7	21.5	21.2	20.9	20.4	18.9	19.8	20.7	21.2	22.5	23.6	24.6	25.6	26.2	26.9	27.3	27.2	26.5	26.0	25.5	25.0	24.4	23.8	27.3	18.9	23.5
08/31/10	23.5	23.3	23.1	23.1	22.9	22.8	22.4	22.1	23.1	23.4	24.4	25.2	25.8	27.0	28.0	28.0	28.3	28.2	27.5	27.0	25.9	24.2	24.1	24.2	28.3	22.1	24.9
Hourly Averages	25.2	24.9	24.3	23.9	23.5	22.9	22.8	23.9	25.4	26.5	27.4	28.3	29.1	29.6	30.2	30.4	30.2	29.9	29.0	28.4	27.5	26.6	25.9	25.5			

Maximum Hourly Temperature: 33.8 **Minimum Hourly Temperature:** 18.9 **Average Monthly Temperature:** 26.7

Maximum 24-Hour Mean: 30.2 **Minimum 24-Hour Mean:** 22.4

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

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	20.3	20.2	19.9	20.0	19.9	19.9	20.1	20.4	20.9	22.0	23.4	23.7	24.2	25.5	26.2	26.8	26.3	25.7	24.7	23.8	23.2	22.4	21.7	21.3	26.8	19.9	22.6
08/02/10	21.5	20.9	20.7	20.6	20.7	20.3	21.0	23.0	25.1	25.4	26.3	27.3	28.7	29.4	29.6	29.5	29.5	28.9	28.4	27.7	27.2	25.5	24.9	24.6	29.6	20.3	25.3
08/03/10	24.1	23.9	23.4	22.7	22.5	22.1	22.1	24.7	27.6	28.8	29.9	30.8	31.2	31.7	32.1	32.2	32.2	32.0	31.3	30.6	29.5	27.5	27.3	26.7	32.2	22.1	27.8
08/04/10	26.2	26.0	25.4	25.0	24.2	23.4	24.0	25.9	29.2	30.7	31.0	32.2	33.3	33.9	34.2	34.0	33.9	33.5	32.7	31.7	29.9	29.1	27.7	26.7	34.2	23.4	29.3
08/05/10	26.9	26.0	25.8	26.1	25.3	24.2	24.5	26.5	29.0	31.0	32.1	33.4	34.1	34.6	34.5	34.5	34.3	34.1	33.3	32.5	30.2	29.1	26.9	26.4	34.6	24.2	29.8
08/06/10	25.8	25.7	25.3	24.4	24.0	23.4	24.1	25.8	27.5	29.3	30.1	31.4	31.4	32.3	32.4	32.2	32.1	32.0	31.3	30.7	29.5	27.8	27.0	26.1	32.4	23.4	28.4
08/07/10	25.1	25.0	21.8	21.0	21.6	21.3	21.4	22.4	23.0	23.1	24.0	25.5	26.3	27.6	28.6	29.1	28.8	28.3	28.0	27.4	26.3	25.4	25.1	23.2	29.1	21.0	25.0
08/08/10	21.3	19.8	19.8	19.9	19.9	19.9	20.1	21.6	23.0	24.1	25.3	26.0	27.7	28.4	29.1	28.5	29.8	29.3	28.6	26.8	25.7	25.3	24.1	23.3	29.8	19.8	24.5
08/09/10	23.8	23.7	23.2	22.8	22.4	22.2	21.7	23.2	26.0	26.8	27.9	28.6	29.3	29.7	30.1	30.4	30.3	30.3	29.8	29.1	28.4	26.1	25.7	25.0	30.4	21.7	26.5
08/10/10	24.8	24.7	24.7	23.7	23.4	23.0	22.9	24.9	28.0	29.5	30.4	31.2	32.0	32.5	32.6	33.0	32.5	31.9	31.2	30.6	29.6	28.4	27.0	26.7	33.0	22.9	28.3
08/11/10	26.9	26.2	25.8	25.3	24.2	23.9	24.1	25.6	27.6	29.1	29.6	31.5	32.2	33.2	33.5	33.8	33.4	32.9	32.2	31.4	30.6	29.0	28.0	27.7	33.8	23.9	29.1
08/12/10	27.0	28.4	27.8	27.5	26.1	25.2	24.7	26.5	29.0	30.5	30.8	32.1	33.0	33.2	33.4	33.8	33.6	33.2	32.4	31.8	31.1	30.6	29.4	28.5	33.8	24.7	30.0
08/13/10	27.6	27.0	26.3	25.9	25.9	25.2	25.3	26.3	29.1	30.0	30.9	32.0	33.0	33.4	34.0	34.1	34.0	33.3	32.4	31.7	31.4	31.2	31.0	30.6	34.1	25.2	30.1
08/14/10	30.7	30.2	29.0	28.4	26.4	25.8	25.5	27.5	28.1	28.9	29.9	31.1	32.8	33.7	34.0	34.4	34.1	33.6	32.8	31.6	30.9	30.6	29.8	28.4	34.4	25.5	30.3
08/15/10	28.1	26.9	27.2	26.1	25.8	26.2	26.3	26.5	28.0	27.4	29.3	31.2	32.2	33.6	34.0	33.7	33.9	33.7	33.2	31.3	29.6	28.6	27.7	26.4	34.0	25.8	29.5
08/16/10	25.3	24.9	24.1	24.4	24.0	21.4	21.4	22.4	24.3	26.9	27.3	28.5	29.9	30.9	31.0	30.7	31.3	31.0	29.7	29.1	26.3	25.8	26.1	26.3	31.3	21.4	26.8
08/17/10	25.8	25.3	24.7	24.2	23.7	23.6	24.2	25.9	28.1	29.8	30.9	31.2	31.3	29.7	33.1	32.6	28.5	23.5	20.1	21.1	20.6	21.3	21.7	21.4	33.1	20.1	25.9
08/18/10	20.7	20.5	21.6	21.3	20.7	19.8	20.3	23.0	25.4	26.7	28.2	29.4	30.2	30.8	30.9	31.3	31.2	30.7	29.8	29.0	28.3	27.4	27.0	25.5	31.3	19.8	26.2
08/19/10	24.7	24.3	24.4	23.6	22.8	22.7	23.0	25.7	28.0	29.8	31.1	31.8	32.4	33.0	33.5	33.5	33.1	32.6	31.9	31.0	30.6	30.2	28.7	28.6	33.5	22.7	28.8
08/20/10	29.8	29.2	28.7	29.1	28.0	25.8	25.6	27.1	28.0	29.1	30.1	31.6	32.4	33.2	33.7	33.8	33.8	33.3	32.3	31.2	30.8	30.6	30.3	30.2	33.8	25.6	30.3
08/21/10	30.0	29.2	27.0	26.2	25.3	24.6	24.4	24.8	25.6	27.1	28.6	29.8	30.8	31.6	32.3	31.5	31.9	31.0	30.6	29.5	26.9	24.7	19.9	20.1	32.3	19.9	27.6
08/22/10	20.6	20.6	20.8	20.6	20.7	20.3	20.4	22.2	24.8	26.4	27.5	28.6	29.1	30.0	30.1	30.3	30.2	29.8	29.2	28.5	27.8	27.0	26.6	25.8	30.3	20.3	25.7
08/23/10	26.3	26.9	25.8	24.7	24.8	24.4	23.9	26.3	28.9	30.5	31.5	31.8	32.3	33.0	33.5	33.6	33.5	33.3	32.6	31.7	31.0	29.3	27.9	27.5	33.6	23.9	29.4
08/24/10	26.7	26.8	25.7	25.3	25.0	24.9	25.0	27.2	29.0	30.0	31.6	33.0	33.7	34.5	34.7	31.8	27.8	29.1	27.7	26.1	25.2	23.4	22.0	22.2	34.7	22.0	27.8
08/25/10	22.0	22.3	22.6	22.3	22.1	22.2	22.6	23.4	24.3	25.6	26.3	27.9	28.7	29.1	29.4	29.5	28.9	28.7	27.9	27.0	26.4	25.9	25.5	25.3	29.5	22.0	25.7
08/26/10	24.8	24.8	24.0	23.7	23.3	22.8	23.0	24.1	25.2	26.1	26.6	27.8	27.6	28.6	28.9	28.9	28.8	28.1	27.5	26.7	25.1	24.9	24.3	24.1	28.9	22.8	25.8
08/27/10	25.4	24.9	22.8	21.6	21.8	19.8	19.3	20.9	22.9	24.5	26.0	26.5	26.6	26.5	25.8	26.4	25.3	25.0	23.8	21.0	20.6	21.3	21.0	21.2	26.6	19.3	23.4
08/28/10	20.7	20.6	20.6	19.9	20.1	19.7	20.0	21.3	22.3	24.0	25.0	26.1	26.5	27.2	28.2	28.5	28.0	26.3	24.5	24.0	22.3	20.6	20.7	21.6	28.5	19.7	23.3
08/29/10	23.5	22.5	21.9	21.8	21.4	20.9	21.2	22.2	23.7	24.8	25.3	26.2	26.3	24.5	27.2	25.1	26.6	27.0	20.0	22.1	23.7	23.3	22.7	22.1	27.2	20.0	23.6
08/30/10	21.9	21.7	21.5	21.2	20.9	20.3	19.0	20.0	21.0	21.7	23.3	24.6	25.6	26.5	26.7	27.4	27.8	27.5	26.6	26.0	25.5	25.0	24.3	23.8	27.8	19.0	23.7
08/31/10	23.5	23.2	23.1	23.1	22.9	22.8	22.2	22.1	23.5	24.2	25.1	26.1	26.6	28.0	28.8	28.8	28.9	28.6	27.5	26.9	25.6	23.8	23.6	23.5	28.9	22.1	25.1
Hourly Averages	24.9	24.6	24.0	23.6	23.2	22.7	22.7	24.2	26.0	27.2	28.2	29.3	30.0	30.6	31.2	31.1	30.8	30.3	29.2	28.4	27.4	26.5	25.7	25.2			

Maximum Hourly Temperature: 34.7 **Minimum Hourly Temperature:** 19.0 **Average Monthly Temperature:** 27.0

Maximum 24-Hour Mean: 30.3 **Minimum 24-Hour Mean:** 22.6

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

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	0.049	0.016	-0.003	-0.022	0.007	0.003	-0.092	-0.107	-0.230	-0.406	-0.572	-0.469	-0.476	-0.660	-0.694	-0.719	-0.642	-0.438	-0.142	-0.049	-0.003	0.160	0.150	0.271	0.271	-0.719	-0.211
08/02/10	0.405	0.307	0.437	0.285	0.636	0.407	0.148	-0.418	-0.426	-0.423	-0.610	-0.764	-1.053	-1.081	-0.966	-0.660	-0.573	-0.365	-0.148	0.029	0.141	0.338	0.444	0.621	0.636	-1.081	-0.137
08/03/10	0.453	0.384	0.563	0.285	0.338	0.574	0.469	-0.375	-0.737	-0.801	-1.085	-1.037	-0.973	-1.035	-0.910	-0.741	-0.674	-0.419	-0.104	0.056	0.496	0.482	0.651	0.861	0.861	-1.085	-0.137
08/04/10	0.657	0.495	0.797	0.564	0.739	0.871	0.812	-0.302	-0.642	-0.835	-0.502	-0.882	-1.015	-1.166	-1.174	-0.901	-0.659	-0.434	-0.088	0.249	0.374	0.540	0.797	0.571	0.871	-1.174	-0.047
08/05/10	0.519	0.604	0.559	0.743	1.048	0.692	0.385	-0.335	-0.668	-1.249	-1.117	-1.199	-1.187	-1.221	-0.872	-0.678	-0.559	-0.474	-0.113	0.135	0.091	0.019	0.038	0.131	1.048	-1.249	-0.196
08/06/10	0.081	0.119	0.123	0.093	0.141	0.091	-0.046	-0.383	-0.490	-0.772	-0.716	-1.078	-0.911	-1.008	-0.971	-0.618	-0.505	-0.371	-0.079	0.101	0.304	0.045	0.329	0.355	0.355	-1.078	-0.257
08/07/10	-0.038	-0.103	0.159	0.327	0.148	0.035	-0.026	-0.026	-0.100	-0.266	-0.416	-0.717	-0.833	-1.024	-1.090	-1.090	-0.692	-0.356	-0.253	-0.055	0.122	0.044	-0.053	0.196	0.327	-1.090	-0.254
08/08/10	0.104	-0.144	-0.082	-0.083	-0.110	-0.132	-0.249	-0.604	-0.756	-0.905	-1.123	-0.827	-1.213	-1.131	-1.034	-0.564	-0.871	-0.446	-0.216	-0.089	0.097	0.272	0.154	0.149	0.272	-1.213	-0.408
08/09/10	0.212	0.187	0.412	0.396	0.361	0.444	0.348	-0.054	-0.467	-0.608	-0.794	-0.883	-0.859	-0.816	-0.863	-0.760	-0.735	-0.585	-0.172	0.106	0.430	0.380	0.229	0.643	0.643	-0.883	-0.144
08/10/10	0.654	0.439	0.801	0.784	0.616	0.510	0.327	-0.444	-0.948	-1.095	-1.198	-1.201	-1.180	-1.234	-0.995	-1.030	-0.665	-0.415	-0.135	0.003	0.175	0.284	0.407	0.345	0.801	-1.234	-0.216
08/11/10	0.556	0.796	0.397	0.356	0.611	0.459	0.216	-0.294	-0.444	-0.765	-0.574	-0.978	-0.938	-1.195	-1.081	-0.999	-0.763	-0.556	-0.169	0.043	0.148	0.305	0.454	0.568	0.796	-1.195	-0.160
08/12/10	0.607	0.266	0.212	0.165	0.612	0.682	0.351	-0.416	-0.828	-0.644	-0.646	-0.988	-1.074	-1.016	-0.849	-0.870	-0.688	-0.446	-0.131	0.020	0.145	0.192	0.514	0.718	0.718	-1.074	-0.171
08/13/10	0.783	0.970	0.892	0.792	0.995	0.681	0.384	-0.251	-0.687	-0.699	-0.774	-1.076	-1.077	-0.996	-0.982	-0.858	-0.773	-0.429	-0.135	0.021	0.101	0.114	0.157	0.201	0.995	-1.077	-0.110
08/14/10	0.162	0.157	0.454	0.305	0.740	0.535	0.430	-0.285	-0.439	-0.695	-0.957	-0.819	-0.972	-1.006	-0.859	-0.781	-0.606	-0.408	-0.166	-0.041	0.037	0.074	0.281	0.500	0.740	-1.006	-0.182
08/15/10	0.740	0.528	0.058	0.011	-0.009	0.006	0.091	-0.272	-0.397	-0.366	-0.752	-1.046	-0.913	-1.076	-0.863	-0.687	-0.683	-0.464	-0.307	-0.136	-0.089	-0.075	-0.107	0.097	0.740	-1.076	-0.280
08/16/10	-0.091	0.004	-0.030	-0.023	0.095	0.176	0.020	-0.150	-0.564	-1.171	-1.169	-1.395	-1.312	-1.408	-1.164	-0.779	-0.842	-0.599	-0.228	-0.076	-0.184	-0.143	-0.029	0.052	0.176	-1.408	-0.459
08/17/10	0.075	0.097	0.131	0.175	0.199	0.220	0.102	-0.416	-0.919	-1.060	-1.284	-0.940	-0.930	-0.754	-1.228	-0.859	-0.545	0.074	0.179	0.352	0.285	0.247	0.224	0.184	0.352	-1.284	-0.266
08/18/10	0.123	0.078	0.175	0.288	0.337	0.261	-0.050	-0.387	-0.634	-0.826	-0.950	-0.952	-0.886	-1.037	-0.901	-0.853	-0.710	-0.456	-0.124	0.035	0.024	0.173	0.246	0.637	0.637	-1.037	-0.266
08/19/10	0.568	0.537	0.515	0.395	0.265	0.253	0.041	-0.422	-0.812	-1.117	-1.216	-1.148	-1.261	-1.115	-1.130	-0.925	-0.606	-0.399	-0.113	0.039	0.059	0.173	0.816	0.616	0.816	-1.261	-0.249
08/20/10	0.243	0.523	0.620	0.271	0.401	0.382	0.410	-0.193	-0.414	-0.587	-0.678	-0.917	-0.957	-1.099	-0.889	-0.774	-0.623	-0.399	-0.108	-0.002	-0.004	0.043	0.041	0.084	0.620	-1.099	-0.193
08/21/10	0.130	0.035	0.004	-0.034	0.007	0.138	0.016	-0.276	-0.464	-0.510	-0.702	-0.794	-0.931	-1.122	-1.134	-0.626	-0.754	-0.305	-0.149	-0.136	-0.179	-0.257	-0.112	-0.114	0.138	-1.134	-0.345
08/22/10	0.088	0.173	0.168	0.127	0.044	0.033	0.004	-0.329	-0.720	-0.768	-0.925	-0.996	-0.744	-0.876	-0.808	-0.793	-0.687	-0.447	-0.104	0.077	0.183	0.250	0.495	0.365	0.495	-0.996	-0.258
08/23/10	0.502	0.870	0.635	0.497	0.512	0.438	0.268	-0.230	-0.811	-1.033	-1.256	-0.945	-0.915	-0.931	-0.879	-0.670	-0.518	-0.359	-0.014	0.114	0.262	0.416	0.280	0.191	0.870	-1.256	-0.149
08/24/10	0.255	0.357	0.222	0.190	0.352	0.278	0.024	-0.216	-0.547	-0.940	-1.191	-1.245	-1.238	-1.268	-1.098	-0.307	0.240	0.040	-0.041	-0.104	-0.079	-0.112	-0.111	-0.099	0.357	-1.268	-0.277
08/25/10	-0.122	-0.053	-0.059	-0.070	-0.046	-0.007	-0.117	-0.134	-0.268	-0.436	-0.591	-0.894	-1.012	-0.969	-0.848	-0.675	-0.294	-0.209	-0.044	-0.030	-0.010	-0.056	-0.010	0.011	0.011	-1.012	-0.289
08/26/10	0.004	0.016	0.036	0.038	0.053	0.069	0.013	-0.410	-0.488	-0.467	-0.561	-0.879	-0.578	-0.926	-0.902	-0.931	-0.667	-0.369	-0.123	0.022	-0.088	0.034	0.138	0.073	0.138	-0.931	-0.287
08/27/10	0.173	0.323	0.330	0.037	0.143	0.397	0.265	-0.085	-0.473	-0.509	-0.776	-0.880	-0.923	-0.971	-0.818	-0.718	-0.397	-0.247	-0.263	-0.276	-0.162	-0.037	0.050	0.216	0.397	-0.971	-0.233
08/28/10	0.170	0.154	0.198	0.205	0.192	0.211	-0.059	-0.543	-0.752	-0.834	-0.944	-0.977	-0.866	-0.738	-0.791	-0.632	-0.508	-0.376	-0.199	-0.116	-0.174	-0.256	-0.112	0.223	0.223	-0.977	-0.313
08/29/10	-0.002	0.094	0.117	0.150	0.114	0.055	0.024	-0.373	-0.652	-0.877	-0.912	-1.090	-0.759	-0.202	-0.500	0.348	0.059	-0.038	-0.254	0.143	0.108	0.068	0.068	0.079	0.348	-1.090	-0.176
08/30/10	0.055	0.027	-0.006	-0.024	0.062	0.107	-0.062	-0.220	-0.273	-0.501	-0.745	-0.987	-1.016	-0.891	-0.523	-0.570	-0.470	-0.264	-0.059	-0.013	0.039	0.031	0.097	0.032	0.107	-1.016	-0.257
08/31/10	0.018	0.027	0.013	0.014	0.006	0.045	0.114	-0.051	-0.416	-0.779	-0.730	-0.925	-0.809	-1.006	-0.877	-0.843	-0.620	-0.409	-0.027	0.090	0.249	0.398	0.508	0.616	0.616	-1.006	-0.225
Hourly Averages	0.262	0.267	0.285	0.233	0.310	0.288	0.147	-0.290	-0.563	-0.740	-0.854	-0.965	-0.962	-0.999	-0.926	-0.728	-0.582	-0.367	-0.130	0.017	0.093	0.134	0.227	0.303			

Maximum Hourly Differential Temperature: 1.048 **Minimum Hourly Differential Temperature:** -1.408

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

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	23.6	23.6	22.8	22.0	21.8	20.7	20.8	23.2	25.4	26.8	27.5	28.3	29.1	29.7	30.5	30.9	30.9	30.4	29.7	29.1	28.7	28.4	27.9	27.5	30.9	20.7	26.6
09/02/10	25.2	25.4	25.1	24.9	24.5	24.2	23.8	24.4	26.6	28.5	29.7	30.4	31.4	32.2	32.5	32.7	33.0	32.4	31.6	30.9	30.7	30.5	30.3	29.8	33.0	23.8	28.8
09/03/10	29.0	27.7	25.8	26.9	25.9	25.1	24.2	25.7	26.9	28.2	29.9	30.7	31.6	32.3	32.9	33.0	32.7	32.1	31.8	29.1	27.8	27.1	27.3	27.2	33.0	24.2	28.8
09/04/10	27.0	26.2	25.0	24.1	23.9	23.2	23.3	24.4	25.5	26.8	27.7	29.5	30.5	31.6	32.1	32.5	32.6	32.5	31.7	31.3	30.6	29.8	28.2	27.7	32.6	23.2	28.2
09/05/10	26.9	26.5	26.1	25.9	25.3	25.1	25.2	25.4	27.3	28.5	29.1	30.1	30.9	31.2	31.5	31.7	31.7	31.4	30.8	30.2	29.7	28.6	27.7	28.0	31.7	25.1	28.5
09/06/10	26.9	26.2	24.9	24.4	23.7	23.3	22.9	24.4	25.0	25.6	26.6	27.5	28.6	29.2	28.9	26.0	24.4	27.3	27.5	27.1	26.2	25.1	25.2	25.0	29.2	22.9	25.9
09/07/10	24.6	24.1	23.6	22.7	23.1	22.9	23.0	23.4	25.1	25.2	26.1	26.9	27.8	28.4	28.9	29.2	29.2	27.2	24.1	23.1	23.8	23.5	22.8	22.6	29.2	22.6	25.1
09/08/10	22.1	21.4	21.5	22.3	22.5	22.6	21.7	22.1	23.2	22.9	23.8	25.1	25.6	26.9	26.7	27.8	28.0	27.7	26.9	26.0	24.8	24.0	23.1	22.4	28.0	21.4	24.2
09/09/10	22.0	21.5	21.0	20.4	20.3	20.5	20.6	20.9	21.4	22.2	23.1	23.9	24.5	24.8	25.3	25.9	26.0	25.6	24.8	24.3	23.4	22.2	21.5	20.2	26.0	20.2	22.8
09/10/10	19.0	19.0	19.3	19.0	17.5	17.2	16.6	17.9	20.4	21.8	22.4	23.6	24.2	25.1	25.6	25.5	25.4	25.0	24.4	23.8	22.0	20.9	20.7	20.8	25.6	16.6	21.5
09/11/10	20.9	20.5	19.4	20.1	18.6	18.0	17.8	19.5	23.1	24.8	25.4	26.3	27.4	28.1	28.9	28.8	27.9	27.0	26.0	25.7	25.5	24.3	23.4	22.9	28.9	17.8	23.8
09/12/10	22.9	22.5	21.6	21.2	20.4	19.9	19.8	20.9	25.1	26.6	28.0	28.9	29.9	30.4	30.6	30.8	30.5	29.5	28.6	27.9	27.1	26.3	26.0	26.0	30.8	19.8	25.9
09/13/10	25.5	24.7	24.6	23.7	23.1	22.2	22.1	23.4	26.2	27.7	28.8	29.9	30.5	31.2	31.6	31.9	31.8	31.4	30.4	29.5	29.2	29.2	29.1	28.5	31.9	22.1	27.8
09/14/10	26.9	26.8	25.2	25.2	25.2	23.9	23.0	24.3	25.8	26.7	28.0	29.1	30.0	30.5	31.0	31.3	31.0	30.6	29.6	29.1	28.8	28.7	28.6	27.6	31.3	23.0	27.8
09/15/10	25.5	25.1	25.0	24.6	23.7	24.2	24.2	24.7	27.0	28.9	29.4	29.9	30.4	30.5	30.7	30.9	30.7	30.4	29.8	29.2	27.1	26.8	26.2	25.4	30.9	23.7	27.5
09/16/10	25.1	25.6	26.0	24.8	24.2	23.3	22.9	24.2	27.4	29.1	29.7	30.4	30.8	31.4	31.8	31.6	31.4	31.1	30.1	29.3	28.8	28.6	27.6	26.1	31.8	22.9	28.0
09/17/10	25.4	25.7	24.7	24.3	24.7	23.1	22.6	24.3	25.7	27.2	28.7	30.3	31.2	31.7	32.2	32.3	32.0	31.7	30.7	30.0	28.8	26.7	26.4	26.6	32.3	22.6	27.8
09/18/10	26.1	26.0	25.5	25.0	24.8	24.5	23.9	25.3	26.6	28.1	29.8	31.4	32.3	33.0	33.6	33.6	33.5	32.9	31.8	31.3	30.8	29.0	27.9	27.9	33.6	23.9	28.9
09/19/10	28.0	27.9	26.9	26.1	24.7	24.7	24.7	25.5	27.1	28.6	29.7	31.1	31.9	32.6	32.8	32.6	32.9	32.2	31.4	30.5	29.5	29.0	28.3	28.1	32.9	24.7	29.0
09/20/10	27.7	27.3	26.8	25.0	24.7	24.7	24.3	25.2	26.5	27.5	27.7	28.0	29.0	30.2	30.9	31.3	31.4	31.0	30.4	29.8	29.3	27.6	27.9	27.0	31.4	24.3	28.0
09/21/10	25.3	24.6	24.4	24.3	24.0	22.8	22.6	23.5	24.3	25.0	26.1	27.3	28.0	28.8	28.6	29.4	28.9	28.7	28.0	27.1	26.2	24.7	24.5	24.0	29.4	22.6	25.9
09/22/10	23.9	23.3	22.0	19.9	20.4	20.7	19.9	20.0	20.2	20.2	19.7	21.1	21.6	22.6	23.2	23.6	23.8	24.1	23.7	23.1	21.2	20.9	20.8	20.7	24.1	19.7	21.7
09/23/10	20.4	19.9	19.5	18.7	18.0	18.3	17.2	17.9	19.7	21.4	22.7	23.9	24.3	24.9	25.7	26.0	26.0	25.8	25.1	24.5	23.4	21.7	21.6	21.2	26.0	17.2	22.0
09/24/10	20.6	20.0	19.8	19.0	18.5	18.2	18.3	20.0	22.6	24.5	25.1	26.2	27.2	27.8	28.5	28.7	29.0	27.9	26.9	25.3	24.0	24.1	25.1	24.6	29.0	18.2	23.8
09/25/10	24.8	24.9	24.5	24.4	22.4	21.5	20.8	22.7	24.4	25.2	26.4	28.1	29.4	30.2	30.3	30.3	30.1	29.9	28.7	27.3	26.9	27.7	26.9	25.9	30.3	20.8	26.4
09/26/10	24.6	23.9	23.1	24.0	23.0	22.9	22.5	23.6	25.7	26.6	27.1	28.1	28.7	29.3	29.7	29.7	29.7	29.4	28.6	27.8	26.3	24.9	24.5	23.9	29.7	22.5	26.2
09/27/10	23.3	23.3	23.8	23.5	22.9	23.1	22.9	23.5	24.5	25.4	26.8	28.3	29.4	30.7	31.2	31.4	31.2	30.6	29.9	28.4	27.8	27.0	26.4	25.7	31.4	22.9	26.7
09/28/10	24.4	23.3	23.9	23.7	23.2	22.5	22.2	23.7	25.2	26.7	27.7	28.9	29.9	30.5	31.2	31.4	30.8	29.4	28.2	27.0	25.9	25.5	24.7	25.3	31.4	22.2	26.5
09/29/10	25.7	25.4	24.7	23.0	22.4	21.8	21.2	22.7	25.8	28.0	29.1	29.5	30.1	30.9	31.6	31.7	31.2	30.4	29.4	28.6	28.2	27.1	27.6	27.0	31.7	21.2	27.2
09/30/10	27.0	25.9	24.9	24.7	23.4	23.0	23.3	24.3	26.1	28.3	30.4	31.2	31.9	32.7	33.3	33.5	33.6	32.7	32.0	30.9	29.0	28.7	28.1	27.8	33.6	23.0	28.6
Hourly Averages	24.7	24.3	23.7	23.3	22.7	22.3	21.9	23.0	24.8	26.1	27.1	28.1	28.9	29.6	30.1	30.2	30.0	29.6	28.7	27.9	27.0	26.3	25.9	25.4			

Maximum Hourly Temperature: 33.6 **Minimum Hourly Temperature:** 16.6 **Average Monthly Temperature:** 26.3

Maximum 24-Hour Mean: 29.0 **Minimum 24-Hour Mean:** 21.5

Total Number of Observations: 720 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	23.0	23.0	22.4	21.6	21.5	20.1	20.5	23.5	26.3	28.0	28.8	29.4	30.1	30.9	31.6	31.7	31.6	30.7	29.7	29.0	28.5	28.1	27.0	26.4	31.7	20.1	26.8
09/02/10	24.5	24.9	24.3	24.0	23.7	23.6	23.3	24.5	27.3	29.7	30.4	31.3	32.6	33.5	33.6	33.5	33.7	32.8	31.7	30.8	30.6	30.4	30.1	29.3	33.7	23.3	28.9
09/03/10	28.4	26.7	25.1	26.0	24.8	24.3	23.8	25.9	27.6	29.3	31.2	31.9	33.0	33.5	34.0	33.9	33.2	32.2	31.8	29.1	27.7	26.9	27.1	27.1	34.0	23.8	28.9
09/04/10	26.9	26.0	24.9	24.0	23.8	23.1	23.3	24.8	26.3	28.0	29.3	31.0	31.9	33.0	33.3	33.6	33.4	33.0	31.6	30.7	30.4	29.2	27.7	27.0	33.6	23.1	28.6
09/05/10	26.3	25.8	25.6	25.3	24.7	24.6	24.9	25.8	28.0	29.6	30.3	31.5	31.9	32.3	32.4	32.5	32.3	31.8	30.8	30.0	29.3	28.2	27.1	27.7	32.5	24.6	28.7
09/06/10	26.8	26.1	24.9	24.3	23.5	23.0	22.7	24.8	25.4	26.3	27.4	28.6	29.8	30.6	29.8	26.5	24.7	27.6	27.5	26.8	25.7	24.8	24.9	24.5	30.6	22.7	26.1
09/07/10	24.1	23.9	23.4	22.5	22.7	22.2	22.8	23.8	25.6	25.9	27.0	27.7	28.7	29.6	30.0	30.1	29.9	27.6	24.4	23.4	23.9	23.6	22.9	22.6	30.1	22.2	25.3
09/08/10	22.1	21.5	21.5	22.1	22.4	22.5	21.6	22.5	23.8	23.6	24.8	26.3	26.6	27.6	27.4	28.5	28.5	28.0	27.0	26.0	24.8	24.0	23.1	22.4	28.5	21.5	24.5
09/09/10	21.9	21.5	21.0	20.3	20.0	20.1	20.5	21.2	22.0	23.0	23.9	24.8	25.5	25.9	26.1	26.6	26.5	25.9	24.9	24.2	23.3	22.1	21.0	19.5	26.6	19.5	23.0
09/10/10	18.7	18.5	18.6	18.3	17.0	16.7	16.3	18.4	21.3	22.7	23.5	24.7	25.3	26.2	26.6	26.4	26.0	25.4	24.3	23.6	21.6	20.4	20.1	20.1	26.6	16.3	21.7
09/11/10	20.4	19.9	18.8	18.9	17.7	17.1	17.2	19.7	23.8	25.6	26.1	27.1	28.6	29.2	30.0	29.8	28.4	27.2	26.1	25.6	25.2	23.4	22.7	22.1	30.0	17.1	23.8
09/12/10	22.0	21.7	21.1	20.7	19.9	19.4	19.3	20.9	26.0	27.9	29.2	30.1	31.2	31.7	31.5	31.7	31.2	29.8	28.6	27.9	26.8	26.0	25.5	25.3	31.7	19.3	26.1
09/13/10	24.9	24.2	24.0	23.1	22.5	21.9	21.5	23.7	27.1	28.9	29.8	31.3	31.5	32.5	32.7	32.7	32.4	31.7	30.4	29.5	29.0	29.0	28.9	28.1	32.7	21.5	28.0
09/14/10	26.2	26.3	24.5	24.5	24.5	23.1	22.8	24.7	26.7	27.9	29.0	30.1	31.2	31.6	31.9	32.1	31.6	30.9	29.6	29.1	28.8	28.6	28.3	27.0	32.1	22.8	27.9
09/15/10	24.8	24.6	24.0	23.7	23.1	23.8	23.7	24.8	27.8	29.9	30.0	30.6	31.5	31.4	31.6	31.7	31.3	30.7	29.8	28.7	26.7	26.3	25.6	24.9	31.7	23.1	27.5
09/16/10	24.6	24.8	25.2	24.1	23.6	22.7	22.2	24.4	28.1	30.2	30.8	31.4	31.9	32.4	32.9	32.4	32.0	31.3	30.1	29.2	28.5	28.3	26.7	25.1	32.9	22.2	28.0
09/17/10	24.5	24.7	24.0	23.6	24.4	22.9	22.5	24.6	26.4	28.4	30.3	31.5	32.2	32.7	33.2	33.1	32.6	32.0	30.6	29.8	28.3	26.0	26.0	25.9	33.2	22.5	27.9
09/18/10	25.3	25.5	24.7	24.0	24.3	24.0	23.6	25.6	27.5	29.4	31.3	33.0	33.7	34.4	34.7	34.6	34.1	33.2	31.8	31.2	30.6	28.5	27.1	27.3	34.7	23.6	29.1
09/19/10	27.5	27.5	26.4	25.6	24.1	24.3	24.6	25.8	27.9	29.8	31.2	32.6	33.2	33.9	33.9	33.3	33.5	32.5	31.3	30.4	29.4	28.8	28.2	28.1	33.9	24.1	29.3
09/20/10	27.7	27.2	26.7	24.9	24.5	24.6	24.2	25.8	27.3	28.3	28.3	28.6	30.0	31.4	32.0	32.1	32.0	31.3	30.4	29.6	28.6	27.1	27.1	26.6	32.1	24.2	28.2
09/21/10	25.1	24.2	24.0	24.2	23.7	22.6	22.2	23.8	24.7	25.6	26.8	28.2	28.8	29.8	29.4	30.2	29.3	29.0	28.0	27.2	26.3	24.8	24.5	24.0	30.2	22.2	26.1
09/22/10	24.0	23.4	22.0	19.9	20.4	20.6	20.0	20.1	20.1	20.3	20.0	21.6	22.0	23.0	23.5	23.9	24.0	24.1	23.7	23.0	20.9	20.8	20.7	20.7	24.1	19.9	21.8
09/23/10	20.3	19.8	19.5	18.6	17.8	17.9	16.9	18.1	20.3	22.4	23.7	24.9	25.4	25.9	26.6	26.8	26.6	25.9	25.0	24.4	23.0	21.2	21.0	20.4	26.8	16.9	22.2
09/24/10	20.0	19.4	19.1	18.4	18.2	17.8	18.0	20.2	23.1	25.4	26.3	27.5	28.3	29.0	29.4	29.5	29.6	28.0	26.6	24.9	23.5	23.5	24.7	24.1	29.6	17.8	23.9
09/25/10	24.4	24.5	24.2	24.0	22.1	21.2	20.5	22.8	24.9	26.1	27.6	29.4	30.7	31.3	31.3	31.2	30.4	29.9	28.5	27.0	26.4	27.3	26.5	25.5	31.3	20.5	26.6
09/26/10	24.3	23.6	22.6	23.7	22.8	22.5	22.4	23.8	26.0	27.1	27.8	29.0	29.6	30.1	30.4	30.3	30.1	29.4	28.4	27.4	25.6	24.5	24.0	23.4	30.4	22.4	26.2
09/27/10	22.9	22.8	23.4	23.1	22.6	22.9	22.7	23.7	25.1	26.4	28.1	29.7	30.7	31.8	32.3	32.1	31.6	30.5	29.7	27.9	27.6	26.6	25.9	25.2	32.3	22.6	26.9
09/28/10	23.9	22.9	23.6	23.4	23.0	22.3	22.0	23.8	25.8	27.7	28.8	30.1	30.9	31.9	32.3	32.2	31.3	29.4	28.1	26.4	25.2	25.0	24.3	24.6	32.3	22.0	26.6
09/29/10	24.9	24.7	23.9	22.3	21.9	21.5	20.9	22.9	26.4	29.0	30.4	30.2	30.9	31.8	32.5	32.3	31.6	30.6	29.4	28.5	27.8	26.2	27.1	26.3	32.5	20.9	27.2
09/30/10	26.1	25.1	24.4	23.9	22.8	22.5	23.0	24.3	26.6	29.4	31.6	32.3	33.1	33.6	34.3	34.2	34.0	32.8	31.7	30.6	28.4	28.3	27.7	27.2	34.3	22.5	28.7
Hourly Averages	24.2	23.8	23.3	22.8	22.3	21.8	21.7	23.3	25.5	27.0	28.1	29.2	30.0	30.7	31.0	31.0	30.6	29.8	28.7	27.7	26.7	25.9	25.4	24.9			

Maximum Hourly Temperature: 34.7 **Minimum Hourly Temperature:** 16.3 **Average Monthly Temperature:** 26.5

Maximum 24-Hour Mean: 29.3 **Minimum 24-Hour Mean:** 21.7

Total Number of Observations: 720 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	0.546	0.635	0.416	0.426	0.383	0.544	0.349	-0.302	-0.843	-1.219	-1.294	-1.081	-1.026	-1.197	-1.080	-0.884	-0.720	-0.319	-0.017	0.125	0.186	0.347	0.964	1.089	1.089	-1.294	-0.165
09/02/10	0.673	0.513	0.832	0.881	0.803	0.635	0.478	-0.075	-0.678	-1.188	-0.696	-0.958	-1.191	-1.247	-1.089	-0.790	-0.712	-0.332	-0.048	0.108	0.100	0.105	0.212	0.492	0.881	-1.247	-0.132
09/03/10	0.651	1.057	0.698	0.913	1.106	0.801	0.378	-0.220	-0.764	-1.117	-1.288	-1.197	-1.307	-1.203	-1.098	-0.917	-0.512	-0.073	0.020	0.024	0.107	0.212	0.132	0.048	1.106	-1.307	-0.148
09/04/10	0.106	0.130	0.185	0.128	0.051	0.110	-0.009	-0.426	-0.863	-1.212	-1.631	-1.534	-1.368	-1.484	-1.208	-1.137	-0.811	-0.471	0.119	0.535	0.217	0.579	0.471	0.723	0.723	-1.631	-0.367
09/05/10	0.586	0.670	0.491	0.647	0.630	0.543	0.334	-0.446	-0.732	-1.114	-1.250	-1.411	-1.015	-1.114	-0.916	-0.808	-0.605	-0.376	0.015	0.148	0.372	0.400	0.628	0.362	0.670	-1.411	-0.165
09/06/10	0.088	0.080	0.040	0.103	0.219	0.296	0.200	-0.369	-0.476	-0.623	-0.874	-1.044	-1.212	-1.416	-0.863	-0.504	-0.255	-0.323	-0.030	0.214	0.496	0.250	0.381	0.541	0.541	-1.416	-0.212
09/07/10	0.497	0.226	0.273	0.191	0.337	0.661	0.268	-0.373	-0.499	-0.635	-0.856	-0.792	-0.952	-1.130	-1.048	-0.947	-0.654	-0.371	-0.305	-0.228	-0.123	-0.066	-0.063	-0.069	0.661	-1.130	-0.277
09/08/10	-0.026	-0.045	0.050	0.179	0.113	0.168	0.105	-0.330	-0.675	-0.658	-0.957	-1.154	-1.053	-0.693	-0.691	-0.711	-0.501	-0.276	-0.051	-0.021	0.025	0.073	0.026	0.061	0.179	-1.154	-0.293
09/09/10	0.101	0.077	0.059	0.173	0.360	0.397	0.161	-0.258	-0.540	-0.778	-0.812	-0.947	-1.008	-1.037	-0.850	-0.733	-0.549	-0.288	-0.055	0.081	0.091	0.101	0.478	0.702	0.702	-1.037	-0.211
09/10/10	0.287	0.498	0.703	0.631	0.487	0.494	0.272	-0.513	-0.888	-0.971	-1.068	-1.059	-1.049	-1.129	-1.007	-0.873	-0.657	-0.445	0.079	0.214	0.421	0.475	0.634	0.714	0.714	-1.129	-0.156
09/11/10	0.512	0.646	0.689	1.263	0.960	0.961	0.540	-0.228	-0.781	-0.767	-0.713	-0.827	-1.162	-1.081	-1.169	-0.938	-0.468	-0.159	-0.027	0.063	0.364	0.848	0.699	0.784	1.263	-1.169	0.000
09/12/10	0.895	0.799	0.454	0.489	0.518	0.526	0.488	-0.011	-0.910	-1.315	-1.174	-1.225	-1.387	-1.281	-0.890	-0.942	-0.731	-0.300	-0.069	-0.002	0.239	0.352	0.517	0.680	0.895	-1.387	-0.178
09/13/10	0.662	0.567	0.569	0.614	0.612	0.368	0.649	-0.288	-0.906	-1.126	-1.068	-1.371	-0.952	-1.329	-1.102	-0.796	-0.578	-0.275	0.011	0.060	0.151	0.171	0.155	0.423	0.662	-1.371	-0.199
09/14/10	0.681	0.545	0.616	0.701	0.741	0.730	0.185	-0.388	-0.865	-1.199	-1.026	-1.018	-1.150	-1.097	-0.913	-0.798	-0.571	-0.307	-0.021	0.018	0.071	0.163	0.305	0.610	0.741	-1.199	-0.166
09/15/10	0.693	0.493	1.010	0.822	0.632	0.453	0.463	-0.134	-0.744	-0.945	-0.666	-0.759	-1.104	-0.849	-0.903	-0.825	-0.594	-0.309	0.072	0.508	0.383	0.518	0.604	0.583	1.010	-1.104	-0.025
09/16/10	0.503	0.809	0.716	0.789	0.541	0.616	0.691	-0.233	-0.778	-1.126	-1.063	-1.084	-1.136	-1.002	-1.053	-0.792	-0.549	-0.268	0.012	0.084	0.217	0.281	0.887	1.032	1.032	-1.136	-0.079
09/17/10	0.891	0.979	0.694	0.642	0.338	0.213	0.119	-0.311	-0.753	-1.184	-1.624	-1.196	-0.970	-0.991	-1.002	-0.848	-0.592	-0.272	0.060	0.205	0.516	0.645	0.408	0.716	0.979	-1.624	-0.138
09/18/10	0.837	0.527	0.847	0.920	0.535	0.519	0.331	-0.277	-0.832	-1.299	-1.533	-1.559	-1.379	-1.313	-1.171	-0.973	-0.580	-0.246	0.043	0.116	0.167	0.530	0.849	0.642	0.920	-1.559	-0.179
09/19/10	0.492	0.389	0.490	0.535	0.534	0.410	0.110	-0.379	-0.845	-1.207	-1.515	-1.465	-1.343	-1.282	-1.054	-0.642	-0.628	-0.236	0.061	0.135	0.152	0.154	0.121	0.048	0.535	-1.515	-0.290
09/20/10	0.075	0.037	0.060	0.084	0.175	0.122	0.098	-0.571	-0.758	-0.839	-0.655	-0.640	-1.009	-1.173	-1.030	-0.813	-0.616	-0.238	0.037	0.203	0.715	0.571	0.812	0.464	0.812	-1.173	-0.204
09/21/10	0.202	0.405	0.410	0.089	0.244	0.291	0.412	-0.283	-0.419	-0.563	-0.649	-0.857	-0.863	-0.990	-0.715	-0.823	-0.380	-0.284	-0.045	-0.067	-0.125	-0.141	-0.054	-0.027	0.412	-0.990	-0.218
09/22/10	-0.105	-0.154	0.019	-0.051	0.063	0.100	-0.033	-0.071	0.047	-0.077	-0.243	-0.457	-0.358	-0.395	-0.311	-0.372	-0.141	0.007	0.041	0.035	0.276	0.149	0.059	0.082	0.276	-0.457	-0.079
09/23/10	0.129	0.044	0.056	0.148	0.234	0.365	0.328	-0.286	-0.641	-0.913	-0.944	-0.991	-1.037	-0.968	-0.878	-0.757	-0.600	-0.132	0.112	0.144	0.442	0.530	0.523	0.812	0.812	-1.037	-0.178
09/24/10	0.660	0.556	0.764	0.526	0.292	0.400	0.325	-0.198	-0.496	-0.891	-1.222	-1.221	-1.139	-1.111	-0.906	-0.824	-0.610	-0.089	0.303	0.399	0.449	0.584	0.401	0.426	0.764	-1.222	-0.109
09/25/10	0.429	0.425	0.351	0.362	0.343	0.360	0.202	-0.155	-0.527	-0.860	-1.122	-1.222	-1.313	-1.063	-0.994	-0.886	-0.315	-0.031	0.175	0.327	0.549	0.363	0.403	0.396	0.549	-1.313	-0.158
09/26/10	0.346	0.289	0.504	0.324	0.241	0.334	0.138	-0.213	-0.385	-0.527	-0.696	-0.878	-0.915	-0.766	-0.733	-0.558	-0.365	-0.011	0.232	0.456	0.713	0.372	0.460	0.417	0.713	-0.915	-0.051
09/27/10	0.371	0.485	0.395	0.364	0.326	0.254	0.190	-0.202	-0.631	-0.991	-1.271	-1.371	-1.333	-1.115	-1.032	-0.715	-0.434	0.044	0.267	0.409	0.267	0.468	0.404	0.446	0.485	-1.371	-0.184
09/28/10	0.453	0.327	0.298	0.234	0.178	0.265	0.152	-0.138	-0.658	-0.982	-1.125	-1.209	-1.077	-1.390	-1.096	-0.853	-0.440	-0.066	0.057	0.630	0.677	0.443	0.471	0.659	0.677	-1.390	-0.175
09/29/10	0.811	0.715	0.839	0.703	0.513	0.337	0.250	-0.184	-0.540	-0.938	-1.269	-0.701	-0.826	-0.914	-0.904	-0.623	-0.403	-0.151	0.000	0.185	0.407	0.946	0.517	0.644	0.946	-1.269	-0.024
09/30/10	0.883	0.772	0.504	0.799	0.601	0.470	0.336	-0.030	-0.570	-1.121	-1.203	-1.138	-1.129	-0.897	-0.969	-0.635	-0.429	-0.038	0.254	0.354	0.560	0.425	0.382	0.581	0.883	-1.203	-0.052
Hourly Averages	0.464	0.450	0.468	0.488	0.437	0.425	0.284	-0.263	-0.665	-0.946	-1.050	-1.079	-1.092	-1.089	-0.956	-0.791	-0.533	-0.221	0.043	0.182	0.303	0.362	0.426	0.503			

Maximum Hourly Differential Temperature: 1.263 **Minimum Hourly Differential Temperature:** -1.631

Total Number of Observations: 720 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-D

HOURLY TEMPERATURE DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	24.0	24.3	24.2	24.0	23.2	22.6	23.6	25.3	27.1	28.8	30.5	31.6	32.6	33.9	33.7	33.2	33.5	32.7	32.5	31.7	30.3	28.3	27.7	27.8	33.9	22.6	28.6
07/02/10	28.2	28.1	27.6	26.8	26.7	26.4	26.8	27.6	28.8	30.2	31.0	32.2	33.9	31.3	31.7	33.7	34.6	34.7	34.4	32.9	30.9	28.8	27.6	26.9	34.7	26.4	30.1
07/03/10	26.4	27.4	26.7	26.0	24.3	25.0	24.8	25.3	25.9	26.6	27.8	29.0	29.5	29.9	30.6	31.2	31.1	30.5	29.9	28.5	27.5	26.7	25.9	25.0	31.2	24.3	27.6
07/04/10	24.3	23.2	22.0	21.7	21.0	20.4	20.9	21.5	22.3	23.7	25.2	26.3	27.2	28.1	28.9	29.1	29.3	29.1	28.7	27.5	27.0	26.3	25.7	25.9	29.3	20.4	25.2
07/05/10	25.5	24.2	23.2	22.8	22.0	22.1	22.6	23.4	23.9	25.1	26.1	27.3	28.3	29.1	29.8	30.6	30.5	30.2	29.6	28.3	27.5	27.2	26.8	26.9	30.6	22.0	26.4
07/06/10	26.1	25.5	24.7	24.0	22.2	21.8	22.4	24.8	25.4	26.2	27.1	28.9	30.2	30.8	31.4	31.6	31.9	31.3	30.5	29.1	28.5	27.4	26.0	25.1	31.9	21.8	27.2
07/07/10	24.9	24.4	25.0	25.4	23.8	23.8	24.9	27.5	28.2	27.2	29.1	31.2	32.4	32.9	32.8	33.1	33.0	33.0	32.2	29.5	28.1	27.5	26.6	25.7	33.1	23.8	28.4
07/08/10	25.5	26.0	25.4	24.6	24.0	23.8	24.2	26.3	27.6	28.7	30.3	31.2	32.2	33.0	33.6	34.1	35.6	32.3	31.5	30.1	29.3	28.9	28.3	27.5	35.6	23.8	28.9
07/09/10	27.0	26.7	27.1	26.5	26.8	26.6	26.6	27.4	28.7	29.2	30.4	31.7	32.4	32.2	33.7	33.5	33.0	32.9	32.6	31.7	30.0	29.7	29.1	28.4	33.7	26.5	29.8
07/10/10	27.6	27.8	26.7	26.6	26.0	25.8	25.6	26.1	28.5	29.6	31.1	32.4	32.5	33.6	31.7	23.4	22.9	23.6	24.4	25.5	25.6	26.2	25.2	25.1	33.6	22.9	27.2
07/11/10	24.1	23.8	23.3	22.9	22.2	21.6	22.1	24.4	25.7	27.3	28.5	29.6	30.4	31.1	32.1	31.9	31.7	29.9	27.4	26.8	26.0	26.2	26.2	25.1	32.1	21.6	26.7
07/12/10	24.6	24.4	23.9	23.4	23.2	23.1	23.1	23.4	24.5	25.9	27.1	28.5	29.5	30.5	31.1	31.6	31.7	31.6	31.2	30.1	29.5	29.2	29.3	28.7	31.7	23.1	27.5
07/13/10	27.9	27.2	26.4	25.9	25.2	24.8	25.1	25.9	26.4	27.8	28.9	30.5	31.6	32.6	33.0	33.4	33.2	32.9	32.7	31.2	30.8	30.4	29.4	28.7	33.4	24.8	29.2
07/14/10	28.8	26.2	26.0	25.7	25.8	25.7	26.1	26.2	27.6	29.0	30.4	31.1	32.3	33.5	28.3	23.4	24.7	27.2	28.0	27.2	27.0	26.7	26.9	26.5	33.5	23.4	27.5
07/15/10	25.9	25.5	25.3	25.0	25.9	24.8	25.5	27.5	30.8	30.6	31.7	33.2	34.3	35.4	35.7	35.6	36.2	35.1	31.2	29.9	29.8	29.3	28.4	27.6	36.2	24.8	30.0
07/16/10	26.8	26.4	26.0	25.2	25.5	25.3	25.0	26.0	27.3	28.3	28.9	29.2	29.7	31.5	32.7	33.5	33.4	33.9	32.4	30.9	27.2	20.6	21.1	22.3	33.9	20.6	27.9
07/17/10	23.4	22.8	22.2	22.0	22.8	23.5	23.7	26.3	27.4	28.4	29.3	30.4	31.5	32.4	32.9	33.5	33.6	33.8	32.8	31.8	31.3	30.2	26.1	25.6	33.8	22.0	28.2
07/18/10	24.6	22.7	22.8	23.2	24.4	26.1	25.9	26.2	27.0	28.3	29.7	30.2	30.8	30.8	31.5	32.1	32.3	32.6	31.3	28.9	30.6	30.2	27.8	27.0	32.6	22.7	28.2
07/19/10	26.8	27.0	28.3	27.9	27.1	26.3	26.6	27.1	27.8	28.7	30.3	31.1	32.3	33.1	33.6	33.9	34.0	33.8	33.2	32.0	31.4	31.3	29.8	27.5	34.0	26.3	30.0
07/20/10	26.4	25.5	23.5	22.1	22.7	23.0	23.6	25.8	28.1	29.4	30.0	30.7	31.7	32.5	33.2	33.5	33.0	32.9	31.9	31.2	30.5	30.0	29.8	29.4	33.5	22.1	28.8
07/21/10	29.2	28.8	28.3	27.4	26.8	25.9	26.1	28.2	27.7	28.5	28.5	28.4	29.2	29.2	30.8	31.1	31.4	31.0	30.4	29.2	27.6	26.7	26.6	24.2	31.4	24.2	28.4
07/22/10	20.6	19.8	19.3	19.5	19.3	19.1	19.2	20.4	21.3	22.0	23.2	24.2	25.6	27.1	26.9	27.2	27.1	26.2	24.3	23.1	23.1	22.5	22.4	22.6	27.2	19.1	22.7
07/23/10	22.3	22.0	21.5	21.0	20.7	20.8	21.2	22.8	24.7	25.2	26.4	26.8	26.9	27.3	28.1	28.4	28.7	28.8	26.8	25.4	24.7	23.7	23.4	23.2	28.8	20.7	24.6
07/24/10	22.2	22.0	22.2	21.7	21.5	21.5	22.4	24.1	25.1	26.4	27.8	27.4	29.1	29.5	31.3	30.6	24.3	21.3	21.4	21.2	21.9	21.6	22.2	23.1	31.3	21.2	24.2
07/25/10	22.7	22.2	21.7	22.0	21.7	21.9	22.7	24.0	25.0	27.0	28.5	29.1	29.5	29.4	29.1	28.9	27.4	25.7	24.9	23.9	23.6	23.3	23.1	22.8	29.5	21.7	25.0
07/26/10	22.3	21.8	21.7	21.3	21.2	21.1	21.3	22.0	23.5	24.2	27.5	29.2	30.3	32.5	34.3	30.0	28.9	27.5	26.9	24.9	24.1	23.6	23.4	23.3	34.3	21.1	25.3
07/27/10	23.1	23.3	23.3	23.1	22.5	22.7	22.7	23.6	25.3	26.1	25.0	27.5	27.7	27.6	29.3	27.8	26.7	27.7	27.2	25.5	24.3	23.3	23.1	22.6	29.3	22.5	25.0
07/28/10	22.2	22.3	22.2	21.4	21.4	21.1	21.8	23.6	24.8	26.5	26.3	26.4	26.7	28.2	29.1	29.5	22.9	21.0	20.4	21.1	20.9	21.9	21.7	21.5	29.5	20.4	23.5
07/29/10	21.7	20.8	20.2	20.6	20.6	20.4	20.9	22.2	23.0	24.3	25.8	27.6	28.1	29.0	30.0	26.8	24.5	23.4	23.7	23.1	23.3	23.3	23.7	22.8	30.0	20.2	23.7
07/30/10	22.9	21.0	20.1	19.7	19.8	19.9	20.4	21.0	23.6	23.7	23.7	23.9	24.6	25.5	26.2	26.6	26.1	25.4	24.6	23.4	22.8	22.4	22.4	20.6	26.6	19.7	22.9
07/31/10	20.2	19.7	19.4	19.6	19.4	19.6	19.7	19.1	19.0	19.7	19.9	21.4	21.8	23.2	23.2	22.2	20.8	20.7	20.5	20.2	19.8	19.2	19.3	19.5	23.2	19.0	20.3
Hourly Averages	24.8	24.3	23.9	23.5	23.2	23.1	23.5	24.7	25.9	26.9	27.9	29.0	29.8	30.5	31.0	30.5	29.9	29.4	28.7	27.6	26.9	26.2	25.6	25.1			

Maximum Hourly Temperature: 36.2 **Minimum Hourly Temperature:** 19.0 **Average Monthly Temperature:** 26.7

Maximum 24-Hour Mean: 30.1 **Minimum 24-Hour Mean:** 20.3

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

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	19.8	19.8	19.6	19.6	19.5	19.5	19.8	20.2	20.8	22.3	23.5	23.5	24.1	25.2	26.0	26.7	26.2	25.5	24.4	23.3	22.8	22.0	21.2	20.9	26.7	19.5	22.3
08/02/10	21.1	20.4	20.3	20.0	20.2	19.8	21.1	23.6	25.4	25.3	26.1	26.9	28.4	29.0	29.4	29.1	29.2	28.8	28.2	27.3	26.7	25.1	24.4	24.2	29.4	19.8	25.0
08/03/10	23.6	23.5	22.9	22.3	22.1	21.7	22.0	24.8	27.8	29.2	29.9	30.6	30.9	31.4	31.9	32.0	32.2	32.0	31.0	30.1	29.1	27.0	26.9	26.1	32.2	21.7	27.5
08/04/10	25.7	25.5	25.0	24.5	23.8	23.0	24.0	26.2	29.8	30.9	30.7	31.8	33.2	33.6	34.0	33.8	33.9	33.4	32.4	31.2	29.4	28.5	27.2	26.3	34.0	23.0	29.1
08/05/10	26.4	25.6	25.2	25.6	24.8	23.7	24.4	26.4	28.9	30.7	31.9	33.2	34.0	34.2	34.2	34.1	34.0	34.1	33.2	32.0	29.8	28.5	26.4	26.0	34.2	23.7	29.5
08/06/10	25.3	25.2	24.8	23.9	23.5	23.0	24.0	25.6	27.3	29.0	29.7	31.0	31.2	32.1	32.4	31.9	31.8	31.7	30.8	30.2	29.0	27.3	26.5	25.6	32.4	23.0	28.0
08/07/10	24.6	24.4	21.2	20.5	21.1	20.8	20.8	22.0	22.8	22.8	23.9	25.4	26.0	27.3	28.4	28.9	28.6	28.0	27.8	26.9	25.9	25.0	24.6	22.8	28.9	20.5	24.6
08/08/10	20.9	19.3	19.2	19.4	19.3	19.4	19.8	21.5	22.8	23.9	24.9	25.7	27.5	28.1	28.9	28.2	29.6	29.1	28.3	26.3	25.2	24.9	23.6	22.9	29.6	19.2	24.1
08/09/10	23.4	23.2	22.7	22.2	21.9	21.6	21.3	23.2	26.1	26.7	27.5	28.2	28.9	29.3	29.8	30.1	30.0	30.4	29.6	28.6	27.8	25.7	25.2	24.4	30.4	21.3	26.2
08/10/10	24.3	24.2	24.1	23.3	22.9	22.5	22.9	24.9	28.1	29.6	30.3	31.0	31.6	32.2	32.2	32.7	32.3	31.7	30.8	30.1	29.1	27.9	26.6	26.3	32.7	22.5	28.0
08/11/10	26.2	25.8	25.3	24.8	23.7	23.5	24.2	25.8	27.7	29.1	29.2	31.2	31.8	32.8	33.1	33.4	33.2	32.8	31.8	30.9	30.2	28.5	27.6	27.3	33.4	23.5	28.7
08/12/10	26.6	27.9	27.3	27.0	25.7	24.7	25.0	26.8	29.2	30.5	30.3	31.8	32.6	32.7	32.9	33.4	33.4	32.9	32.0	31.2	30.6	30.2	29.0	28.2	33.4	24.7	29.7
08/13/10	27.1	26.4	25.9	25.3	25.2	24.6	25.0	26.7	29.4	30.0	30.5	31.7	32.7	32.9	33.6	33.9	33.8	33.1	32.1	31.2	30.8	30.7	30.5	30.1	33.9	24.6	29.7
08/14/10	30.2	29.7	28.5	27.9	26.0	25.3	25.3	27.8	27.8	28.6	29.6	30.6	32.2	33.3	33.6	34.0	33.7	33.3	32.5	31.1	30.4	30.0	29.3	27.9	34.0	25.3	29.9
08/15/10	27.6	26.4	26.7	25.6	25.3	25.7	26.0	26.5	27.8	27.0	28.9	30.7	31.7	33.1	33.6	33.2	33.6	33.5	32.8	30.7	29.0	28.0	27.2	25.9	33.6	25.3	29.0
08/16/10	24.7	24.4	23.6	23.8	23.6	21.0	21.0	22.2	24.0	26.3	26.5	27.8	29.4	30.4	30.8	30.4	31.1	30.8	29.3	28.6	25.8	25.3	25.5	25.8	31.1	21.0	26.3
08/17/10	25.3	24.8	24.2	23.8	23.2	23.2	23.9	25.8	28.0	29.9	30.6	30.7	31.0	29.3	32.8	32.4	27.9	23.1	19.6	20.7	20.1	20.8	21.3	20.9	32.8	19.6	25.5
08/18/10	20.2	20.0	21.1	20.8	20.2	19.3	20.1	22.9	25.2	26.5	28.1	29.3	29.9	30.5	30.6	31.0	31.1	30.6	29.5	28.5	27.8	26.9	26.6	24.9	31.1	19.3	25.9
08/19/10	24.2	23.9	23.9	23.2	22.3	22.3	22.7	25.5	28.1	30.0	31.1	31.6	32.1	32.7	33.1	33.3	32.9	32.5	31.5	30.4	30.1	29.8	28.4	28.0	33.3	22.3	28.5
08/20/10	29.4	28.8	28.3	28.7	27.6	25.3	25.7	27.5	27.7	28.8	29.7	31.1	32.0	32.8	33.3	33.4	33.6	33.1	31.9	30.7	30.3	30.1	29.8	29.7	33.6	25.3	30.0
08/21/10	29.5	28.7	26.5	25.7	24.8	24.1	24.0	24.6	25.4	26.7	28.0	29.3	30.3	31.3	31.9	31.1	31.7	30.6	30.0	28.9	26.4	24.2	19.3	19.4	31.9	19.3	27.2
08/22/10	20.1	20.1	20.3	20.2	20.1	19.8	19.9	22.0	24.8	26.3	27.4	28.4	28.9	29.7	29.9	30.1	30.2	29.9	29.1	28.0	27.3	26.5	26.1	25.3	30.2	19.8	25.4
08/23/10	25.7	26.2	25.4	24.3	24.4	23.9	23.7	26.2	28.9	30.5	31.3	31.6	32.0	32.9	33.2	33.3	33.5	33.3	32.3	31.2	30.5	28.9	27.5	27.0	33.5	23.7	29.1
08/24/10	26.2	26.4	25.2	24.8	24.6	24.5	24.7	26.8	28.6	29.5	30.8	32.4	33.4	34.3	34.5	31.2	27.3	28.6	27.1	25.5	24.6	22.9	21.5	21.6	34.5	21.5	27.4
08/25/10	21.4	21.8	22.0	21.8	21.6	21.7	22.0	23.0	23.9	25.1	25.7	27.2	27.9	28.3	28.7	28.9	28.4	28.3	27.4	26.5	25.9	25.3	24.9	24.8	28.9	21.4	25.1
08/26/10	24.3	24.2	23.5	23.1	22.8	22.3	22.6	23.5	24.7	25.6	26.0	27.2	27.0	28.1	28.5	28.5	28.5	27.9	27.0	26.3	24.6	24.4	23.9	23.6	28.5	22.3	25.3
08/27/10	24.9	24.5	22.5	21.1	21.3	19.4	18.9	20.5	22.6	24.4	25.9	26.3	26.4	26.2	25.5	26.3	24.8	24.5	23.2	20.4	20.1	20.8	20.4	20.7	26.4	18.9	23.0
08/28/10	20.2	20.1	20.1	19.3	19.7	19.3	19.7	21.1	22.1	23.7	24.6	25.7	26.2	26.8	27.9	28.2	27.6	25.8	24.0	23.4	21.8	20.1	20.2	21.1	28.2	19.3	22.9
08/29/10	22.9	22.0	21.4	21.3	21.0	20.4	20.7	21.8	23.3	24.3	24.8	25.6	25.6	24.1	26.9	24.7	26.3	26.6	19.5	21.6	23.2	22.9	22.2	21.6	26.9	19.5	23.1
08/30/10	21.4	21.2	21.0	20.7	20.4	19.9	18.5	19.6	20.6	21.3	22.9	24.2	24.9	26.0	26.1	27.0	27.4	27.1	26.1	25.5	25.0	24.5	23.8	23.3	27.4	18.5	23.3
08/31/10	23.0	22.7	22.6	22.6	22.5	22.3	21.9	21.9	23.7	24.0	24.9	25.9	26.3	27.9	28.8	28.6	28.8	28.5	27.2	26.4	25.2	23.4	23.1	23.0	28.8	21.9	24.8
Hourly Averages	24.4	24.1	23.6	23.1	22.7	22.2	22.4	24.1	25.9	27.0	27.9	28.9	29.7	30.3	30.8	30.8	30.5	30.0	28.8	27.9	26.9	26.0	25.2	24.7			

Maximum Hourly Temperature: 34.5 **Minimum Hourly Temperature:** 18.5 **Average Monthly Temperature:** 26.6

Maximum 24-Hour Mean: 30.0 **Minimum 24-Hour Mean:** 22.3

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

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	22.5	22.5	21.9	21.2	21.0	19.7	20.2	23.2	25.8	27.5	28.4	29.1	29.8	30.6	31.5	31.5	31.5	30.7	29.4	28.5	28.0	27.6	26.7	25.8	31.5	19.7	26.4
09/02/10	24.0	24.4	23.8	23.5	23.2	23.1	23.1	24.4	27.4	29.7	30.3	30.9	32.3	33.1	33.4	33.3	33.5	32.8	31.3	30.3	30.0	29.9	29.6	28.6	33.5	23.1	28.6
09/03/10	27.9	26.2	24.7	25.5	24.4	23.9	23.5	25.5	27.0	28.5	30.4	31.3	32.4	32.8	33.5	33.5	32.8	31.8	31.3	28.6	27.2	26.4	26.6	26.6	33.5	23.5	28.4
09/04/10	26.4	25.6	24.4	23.5	23.3	22.7	22.9	24.3	25.7	27.2	28.3	30.5	31.6	32.7	33.1	33.7	33.3	33.3	31.4	30.2	29.9	28.8	27.0	26.4	33.7	22.7	28.2
09/05/10	25.8	25.2	25.1	24.8	24.2	24.0	24.6	26.0	28.3	29.4	29.9	31.4	31.5	31.9	32.0	32.2	32.1	31.7	30.4	29.5	28.7	27.6	26.6	27.1	32.2	24.0	28.3
09/06/10	26.4	25.6	24.4	23.8	22.9	22.5	22.4	25.1	25.3	26.0	27.1	28.2	29.4	30.3	29.3	26.0	24.5	27.8	27.0	26.4	25.3	24.3	24.3	24.0	30.3	22.4	25.8
09/07/10	23.7	23.4	22.9	22.0	22.3	21.7	22.5	23.7	25.6	25.6	26.6	27.3	28.3	29.1	29.8	30.0	29.8	27.0	23.8	22.8	23.3	23.0	22.4	22.1	30.0	21.7	24.9
09/08/10	21.6	20.9	21.0	21.7	21.8	22.0	21.1	22.4	23.6	23.1	24.4	25.7	26.1	27.0	26.9	28.1	28.1	27.7	26.5	25.5	24.3	23.5	22.6	21.9	28.1	20.9	24.1
09/09/10	21.3	20.9	20.4	19.8	19.5	19.6	20.0	20.7	21.5	22.5	23.5	24.2	25.1	25.3	25.6	26.2	26.2	25.7	24.4	23.7	22.9	21.6	20.5	19.0	26.2	19.0	22.5
09/10/10	18.1	17.9	18.1	18.0	16.4	16.2	16.0	18.8	21.7	22.5	23.4	24.6	25.0	26.0	26.3	26.2	25.9	25.5	23.9	23.0	21.0	19.8	19.6	19.4	26.3	16.0	21.4
09/11/10	19.8	19.3	18.2	18.5	17.2	16.7	16.9	19.5	24.1	25.8	25.8	26.7	28.3	29.0	29.9	29.6	28.1	26.8	25.5	25.1	24.7	23.0	22.1	21.6	29.9	16.7	23.4
09/12/10	21.6	21.2	20.7	20.3	19.5	18.9	18.9	20.6	25.9	27.2	28.8	29.7	30.9	31.5	31.1	31.7	31.1	29.5	28.1	27.3	26.4	25.4	25.0	24.8	31.7	18.9	25.7
09/13/10	24.2	23.4	23.3	22.4	21.8	21.4	21.1	23.6	26.8	28.6	29.7	31.1	31.2	32.1	32.4	32.5	32.1	31.7	29.9	28.9	28.5	28.5	28.4	27.6	32.5	21.1	27.5
09/14/10	25.6	25.8	24.1	23.9	24.0	22.7	22.5	24.6	26.7	27.7	28.8	29.8	30.8	31.1	31.6	31.9	31.4	30.7	29.1	28.5	28.3	28.1	27.8	26.6	31.9	22.5	27.6
09/15/10	24.3	24.1	23.6	23.3	22.6	23.2	23.3	25.4	28.6	30.1	29.7	30.2	31.0	30.9	31.1	31.5	31.1	30.5	29.2	28.2	26.2	25.8	25.1	24.3	31.5	22.6	27.2
09/16/10	24.0	24.1	24.4	23.5	23.1	22.2	21.8	24.4	28.1	30.0	30.5	31.2	31.5	32.1	32.6	32.1	31.8	31.2	29.6	28.7	28.0	27.8	26.2	24.5	32.6	21.8	27.6
09/17/10	24.0	24.2	23.5	23.1	23.9	22.4	22.0	24.4	26.1	27.8	29.5	31.1	31.7	32.2	33.1	33.0	32.4	32.0	30.1	29.3	27.5	25.5	25.4	25.4	33.1	22.0	27.5
09/18/10	24.8	24.9	24.2	23.5	23.9	23.5	23.1	25.2	27.0	28.6	30.4	32.3	33.2	34.1	34.4	34.5	33.9	33.0	31.3	30.7	30.1	28.0	26.6	26.8	34.5	23.1	28.7
09/19/10	27.1	27.0	26.0	25.1	23.7	23.8	24.1	25.3	27.3	29.2	30.3	31.8	32.7	33.3	33.4	32.9	33.2	32.1	30.8	29.8	28.9	28.3	27.7	27.6	33.4	23.7	28.8
09/20/10	27.2	26.7	26.2	24.4	24.0	24.2	23.8	25.5	27.0	27.8	27.8	28.1	29.6	31.0	31.7	32.0	31.9	31.0	29.9	29.1	28.2	26.4	26.3	26.1	32.0	23.8	27.7
09/21/10	24.6	23.7	23.6	23.8	23.3	22.1	21.9	24.0	24.7	25.3	26.4	27.7	28.4	29.4	28.9	29.9	29.0	28.7	27.5	26.7	25.8	24.3	24.0	23.5	29.9	21.9	25.7
09/22/10	23.5	22.9	21.5	19.4	19.9	20.1	19.4	19.6	19.6	19.8	19.6	21.2	21.6	22.7	23.0	23.5	23.5	23.7	23.2	22.6	20.4	20.2	20.2	20.1	23.7	19.4	21.3
09/23/10	19.8	19.4	19.0	18.1	17.2	17.4	16.6	18.6	21.0	22.3	23.7	25.0	25.3	25.7	26.6	26.8	27.2	25.9	24.5	23.9	22.6	20.7	20.5	20.0	27.2	16.6	22.0
09/24/10	19.5	19.0	18.6	18.0	17.7	17.3	17.6	20.0	23.0	25.2	25.5	26.7	28.1	28.7	29.3	29.7	29.7	27.8	26.2	24.6	23.1	23.0	24.4	23.8	29.7	17.3	23.6
09/25/10	24.0	24.1	23.8	23.7	21.7	20.7	20.1	22.7	24.5	25.4	26.7	28.5	30.0	30.8	30.9	30.8	30.2	29.6	28.1	26.5	26.0	26.9	26.1	25.2	30.9	20.1	26.1
09/26/10	23.8	23.1	22.2	23.2	22.3	22.1	21.9	23.7	25.6	26.5	27.2	28.4	29.1	29.5	29.9	29.9	29.8	29.2	27.9	26.9	25.2	24.0	23.5	23.0	29.9	21.9	25.7
09/27/10	22.4	22.2	23.0	22.7	22.1	22.4	22.2	23.4	24.7	25.7	27.3	28.7	30.0	31.4	32.0	31.7	31.5	30.1	29.2	27.5	27.0	26.1	25.5	24.8	32.0	22.1	26.4
09/28/10	23.5	22.4	23.1	22.9	22.5	21.8	21.6	23.5	25.4	27.4	28.6	30.1	31.0	31.7	32.0	32.2	31.2	29.0	27.6	25.9	24.7	24.4	23.8	24.1	32.2	21.6	26.3
09/29/10	24.3	24.1	23.3	21.8	21.3	21.0	20.5	22.7	26.3	28.8	29.8	29.8	30.5	31.5	32.3	32.1	31.4	30.3	28.9	28.0	27.3	25.6	26.5	25.9	32.3	20.5	26.8
09/30/10	25.6	24.7	23.9	23.3	22.3	22.0	22.6	24.3	26.5	29.0	31.5	31.8	32.5	33.0	33.8	33.8	33.6	32.4	31.2	30.1	27.9	27.8	27.2	26.7	33.8	22.0	28.2
Hourly Averages	23.7	23.3	22.8	22.3	21.8	21.4	21.3	23.2	25.4	26.7	27.7	28.8	29.6	30.3	30.7	30.8	30.4	29.6	28.2	27.2	26.2	25.4	24.9	24.4			

Maximum Hourly Temperature: 34.5 **Minimum Hourly Temperature:** 16.0 **Average Monthly Temperature:** 26.1

Maximum 24-Hour Mean: 28.8 **Minimum 24-Hour Mean:** 21.3

Total Number of Observations: 720 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-E

HOURLY RELATIVE HUMIDITY DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	39.0	39.1	40.3	43.6	49.3	51.0	46.4	41.5	37.0	32.6	29.6	25.9	24.2	19.5	22.2	20.4	20.1	21.2	21.9	23.7	28.9	32.7	31.7	31.0	51.0	19.5	32.2
07/02/10	30.5	28.4	34.5	34.2	36.9	40.8	40.4	38.8	36.9	31.9	29.8	26.0	21.7	30.5	24.0	22.1	12.6	12.1	12.6	13.4	28.5	32.0	35.0	35.8	40.8	12.1	28.7
07/03/10	32.1	18.6	28.6	28.6	25.3	22.8	21.7	24.0	25.3	25.7	23.0	15.6	16.8	15.7	12.9	10.0	15.0	15.5	14.1	19.1	21.6	23.1	26.5	28.3	32.1	10.0	21.2
07/04/10	29.1	34.2	31.9	30.4	37.1	40.0	38.8	40.3	35.6	31.4	28.3	26.0	23.2	19.0	18.1	19.3	20.4	19.3	21.2	21.1	20.4	21.8	23.4	20.6	40.3	18.1	27.1
07/05/10	21.6	27.6	29.9	30.0	31.2	30.7	25.6	24.0	23.6	20.1	19.0	15.9	15.5	15.6	15.4	14.9	14.4	14.0	14.6	15.6	17.7	18.0	15.7	15.6	31.2	14.0	20.3
07/06/10	17.3	18.5	19.0	25.6	28.3	29.1	26.4	21.6	23.0	23.8	20.0	17.8	14.7	14.5	14.0	12.9	13.5	13.3	14.3	14.4	15.4	14.1	18.4	18.6	29.1	12.9	18.7
07/07/10	15.8	14.8	14.4	16.9	17.9	20.1	16.8	15.6	20.4	18.0	17.9	14.1	13.8	13.6	13.2	13.9	12.8	13.3	19.1	23.8	23.8	24.4	28.2	29.2	29.2	12.8	18.0
07/08/10	27.7	29.7	30.9	32.6	35.7	38.4	34.8	32.2	29.4	29.0	24.3	23.6	22.0	20.0	19.4	17.8	17.5	21.6	25.0	26.6	29.2	30.6	31.4	31.0	38.4	17.5	27.5
07/09/10	32.3	32.4	33.1	35.0	35.7	38.9	38.8	38.1	35.9	32.3	29.8	27.8	27.0	26.4	24.2	24.6	22.7	23.0	23.8	29.4	29.3	31.8	33.0	35.3	38.9	22.7	30.8
07/10/10	37.9	37.8	39.8	37.8	45.7	42.1	47.1	42.0	39.6	34.0	27.7	26.1	25.5	26.5	39.4	79.3	61.9	60.3	52.3	50.0	38.4	51.2	49.0	51.4	79.3	25.5	43.4
07/11/10	56.5	60.0	59.4	64.1	70.0	71.0	64.0	58.9	51.1	38.3	32.8	30.3	27.5	25.8	26.5	26.0	26.1	44.7	36.7	38.4	40.2	34.1	44.2	47.5	71.0	25.8	44.7
07/12/10	50.8	54.4	58.8	59.6	59.3	59.4	59.3	55.9	51.1	44.7	38.5	38.0	33.0	30.6	28.1	28.6	26.4	26.6	27.4	28.8	29.0	29.1	28.8	30.9	59.6	26.4	40.7
07/13/10	32.1	33.8	35.7	37.6	38.8	39.8	37.8	35.9	34.4	32.3	29.3	26.4	24.6	23.9	22.7	23.4	22.2	22.5	24.5	25.4	26.1	26.9	29.7	29.1	39.8	22.2	29.8
07/14/10	37.0	43.2	43.8	44.2	44.8	44.2	45.5	43.9	36.8	36.7	32.8	28.2	28.9	24.3	60.5	79.4	61.3	45.6	41.4	46.7	46.4	44.2	43.1	44.0	79.4	24.3	43.6
07/15/10	48.3	46.5	49.1	43.9	40.4	45.9	47.9	33.7	35.0	31.2	27.2	24.3	22.9	23.0	23.4	21.0	20.3	28.1	30.7	30.3	30.4	34.2	33.7	38.1	49.1	20.3	33.7
07/16/10	40.2	41.1	45.1	45.5	44.8	47.2	48.8	43.7	37.4	38.0	33.9	37.8	33.7	28.5	30.3	26.0	27.2	27.5	31.9	33.9	71.6	82.3	69.1	60.5	82.3	26.0	42.7
07/17/10	55.4	64.5	69.0	60.9	58.8	56.2	49.8	43.4	40.4	38.7	38.9	32.8	32.0	31.2	29.6	28.9	27.0	27.8	30.1	30.5	31.0	50.8	57.1	56.1	69.0	27.0	43.4
07/18/10	75.7	71.9	69.5	65.6	49.9	48.9	51.9	49.1	46.6	39.6	39.4	39.0	38.0	37.2	33.2	33.8	30.7	32.2	62.9	36.4	32.6	45.7	44.3	46.2	75.7	30.7	46.7
07/19/10	51.6	32.6	32.5	42.1	44.5	45.3	49.9	45.7	41.9	38.1	33.2	30.7	28.1	27.8	26.4	26.8	25.8	27.5	28.2	29.6	30.0	30.3	39.5	55.3	55.3	25.8	36.0
07/20/10	48.3	59.0	77.0	74.4	72.9	69.5	59.6	55.3	41.9	37.6	37.1	33.6	32.2	27.5	28.0	28.2	25.0	26.5	28.5	26.2	26.4	25.9	27.8	29.1	77.0	25.0	41.6
07/21/10	29.6	30.8	33.5	35.5	41.3	39.0	39.3	35.2	37.4	36.1	37.2	31.7	30.3	29.4	28.7	28.7	28.6	30.0	33.6	39.2	47.2	45.7	43.4	74.9	74.9	28.6	36.9
07/22/10	91.0	94.7	93.6	76.8	82.4	88.9	85.4	71.3	73.6	71.7	67.0	57.8	53.4	54.0	47.9	48.0	50.1	56.4	68.9	70.6	67.5	70.8	67.4	67.6	94.7	47.9	69.9
07/23/10	72.6	72.5	77.7	82.7	76.8	74.1	68.8	58.0	57.8	56.5	49.1	48.5	53.3	46.5	40.6	43.9	42.7	42.7	50.4	54.1	54.0	59.7	58.4	65.3	82.7	40.6	58.6
07/24/10	70.8	67.4	68.1	71.9	68.7	71.3	63.6	61.3	54.3	46.6	47.7	45.4	44.3	35.6	32.9	43.9	77.3	76.2	79.1	74.1	74.3	69.9	55.1	56.1	79.1	32.9	60.7
07/25/10	53.9	64.3	58.9	60.2	63.6	63.3	62.3	61.8	58.8	50.4	48.9	41.3	36.7	43.9	36.1	53.3	48.2	61.9	64.9	66.7	68.9	70.7	69.6	71.1	71.1	36.1	57.5
07/26/10	73.5	72.6	73.3	73.9	72.7	73.3	73.0	69.1	65.7	57.0	44.4	43.3	38.1	32.5	37.5	34.2	48.6	50.0	52.2	63.0	62.2	64.8	65.2	66.4	73.9	32.5	58.6
07/27/10	66.2	64.1	65.1	66.5	69.7	67.0	70.5	64.9	58.2	53.3	54.9	55.3	49.8	46.8	43.1	55.5	51.6	50.2	57.2	63.0	69.0	71.1	70.1	74.0	74.0	43.1	60.7
07/28/10	74.4	73.0	74.8	78.5	77.9	81.7	71.5	67.5	60.6	56.6	60.7	58.1	53.7	48.6	45.9	47.1	88.9	88.8	86.0	86.4	83.1	74.7	80.6	84.0	88.9	45.9	71.0
07/29/10	79.6	82.7	80.3	78.6	77.7	76.8	74.6	67.9	70.1	61.5	57.3	54.2	51.3	42.2	41.0	64.7	71.6	68.8	71.3	72.1	74.7	71.1	71.2	74.2	82.7	41.0	68.1
07/30/10	78.4	89.6	89.9	88.5	87.9	90.8	86.9	84.2	62.7	80.0	78.3	70.3	70.2	65.0	60.0	57.7	61.0	67.4	77.1	81.9	88.4	83.4	92.4	88.9	92.4	57.7	78.4
07/31/10	83.2	87.0	85.7	86.4	86.2	79.1	86.0	88.8	88.6	81.6	83.5	76.9	70.9	77.0	77.1	86.4	87.1	89.5	90.0	89.9	94.3	94.7	93.2	94.6	94.7	70.9	85.7
Hourly Averages	50.1	51.2	53.0	53.3	53.9	54.4	52.7	48.8	45.5	42.1	39.4	36.2	34.1	32.3	32.3	36.2	37.4	38.9	41.7	42.7	45.2	47.1	47.6	50.0			

Maximum Hourly Humidity: 94.7 **Minimum Hourly Humidity:** 10.0

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

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	91.8	91.9	92.4	92.2	93.6	92.7	90.4	85.6	81.6	62.3	61.0	58.8	51.3	36.5	33.4	39.1	47.4	51.4	49.2	54.5	57.2	64.3	63.1	64.1	93.6	33.4	66.9
08/02/10	69.2	67.8	71.4	62.3	67.3	60.4	59.6	45.7	37.9	39.6	41.2	36.9	30.6	31.2	31.6	30.8	32.3	31.6	34.4	36.1	42.3	48.2	47.7	51.7	71.4	30.6	46.2
08/03/10	49.4	54.8	52.8	53.5	54.5	59.0	57.2	47.7	37.9	32.6	30.1	27.1	26.8	25.7	23.5	24.6	22.3	23.1	24.2	24.8	32.5	31.9	35.8	31.2	59.0	22.3	36.8
08/04/10	31.9	32.2	35.8	43.2	42.8	43.6	42.5	36.4	29.8	29.0	28.0	25.2	22.6	21.3	21.4	20.7	18.7	18.8	19.5	21.1	28.1	30.1	26.5	32.1	43.6	18.7	29.2
08/05/10	34.8	41.6	37.8	37.0	45.9	42.0	45.0	34.9	31.4	28.7	25.6	21.3	22.1	19.8	20.5	18.4	18.5	18.5	20.2	21.9	28.6	30.0	40.8	40.3	45.9	18.4	30.2
08/06/10	42.6	40.1	43.4	44.8	46.7	51.9	46.3	39.8	32.5	32.1	29.1	28.0	26.2	24.4	25.1	25.4	24.8	25.9	25.9	27.1	35.0	40.5	44.4	47.2	51.9	24.4	35.4
08/07/10	41.9	55.6	85.1	69.2	71.1	70.2	64.9	60.9	64.8	60.0	56.0	47.1	45.4	36.8	32.9	31.5	33.5	34.2	36.5	40.5	49.4	52.7	51.8	78.2	85.1	31.5	52.9
08/08/10	86.3	91.4	82.6	87.5	84.5	85.1	81.2	70.8	64.6	63.1	56.3	43.1	43.7	36.0	34.8	29.2	30.0	29.0	35.1	45.3	45.3	48.7	54.2	55.3	91.4	29.0	57.6
08/09/10	52.7	54.1	58.6	56.7	58.6	61.9	57.9	35.8	33.0	29.6	32.4	32.1	30.8	30.6	30.1	26.2	26.8	25.7	27.0	28.3	33.7	36.7	39.9	35.2	61.9	25.7	38.9
08/10/10	38.8	41.8	34.7	44.3	43.8	46.9	45.9	38.9	33.0	29.4	28.4	28.4	25.1	23.8	24.9	20.8	24.0	23.9	26.5	27.9	32.4	33.8	37.8	38.6	46.9	20.8	33.1
08/11/10	35.8	45.0	43.1	42.1	48.2	50.3	43.2	36.3	32.6	32.2	30.8	29.5	25.3	24.3	25.1	24.4	23.9	26.5	26.8	28.3	33.6	34.8	35.5	34.3	50.3	23.9	33.8
08/12/10	36.3	31.6	32.8	31.3	39.0	43.2	36.2	33.1	27.7	27.8	25.8	24.6	24.3	24.2	24.6	24.2	23.0	22.0	22.0	22.8	24.0	24.8	24.3	28.8	43.2	22.0	28.3
08/13/10	28.9	26.9	31.1	26.7	26.8	29.7	27.5	25.0	21.6	17.9	15.4	15.6	18.4	17.9	15.8	17.4	17.0	17.9	19.1	18.1	16.3	15.6	16.9	14.6	31.1	14.6	20.7
08/14/10	15.8	16.5	18.4	21.5	25.4	25.7	27.6	27.4	30.3	28.2	25.7	24.0	23.1	20.8	21.2	19.9	21.8	22.2	24.6	25.7	25.7	26.4	28.3	32.1	32.1	15.8	24.1
08/15/10	34.9	31.8	47.8	52.8	51.7	46.9	47.5	41.9	43.5	43.8	39.5	33.1	29.8	26.2	25.7	24.5	24.9	24.8	29.4	31.0	36.4	39.5	40.0	48.8	52.8	24.5	37.3
08/16/10	51.1	59.2	55.4	55.5	72.5	82.9	79.2	70.8	55.7	49.1	46.4	40.3	33.2	32.6	30.4	29.4	32.2	31.0	34.8	40.7	50.7	48.9	47.6	47.2	82.9	29.4	49.0
08/17/10	50.8	51.1	51.3	53.7	55.4	55.5	54.8	48.1	40.9	35.8	36.7	32.0	49.2	28.5	28.1	32.6	62.8	74.4	80.5	77.4	79.7	76.9	71.6	78.7	80.5	28.1	54.4
08/18/10	78.7	75.4	71.2	76.7	82.5	81.6	71.7	57.5	49.5	45.3	40.5	39.3	37.9	34.8	34.8	32.5	31.1	29.8	34.2	37.0	40.7	45.9	53.7	49.5	82.5	29.8	51.3
08/19/10	55.2	59.6	55.1	60.6	59.2	59.2	55.0	43.5	37.9	33.1	32.1	29.6	27.4	27.4	26.7	25.6	24.0	23.6	25.7	28.9	30.3	29.6	36.3	31.5	60.6	23.6	38.2
08/20/10	32.4	31.2	30.4	35.6	37.2	45.0	44.6	36.4	35.2	33.2	32.5	29.3	24.9	24.4	23.4	21.2	20.9	23.1	26.8	28.6	28.5	29.4	30.5	31.1	45.0	20.9	30.7
08/21/10	31.6	42.0	51.0	56.1	60.1	64.1	63.1	62.1	57.9	52.5	46.8	42.7	42.0	40.1	38.9	39.4	38.7	40.0	40.0	48.8	51.9	92.2	96.4	94.6	96.4	31.6	53.9
08/22/10	91.0	85.6	82.9	79.8	85.2	85.5	84.3	69.2	60.4	55.4	46.3	48.5	46.8	47.0	46.6	44.1	44.6	47.4	48.5	50.5	58.2	60.3	66.2	60.9	91.0	44.1	62.3
08/23/10	57.4	47.7	58.2	60.0	61.8	56.5	61.1	52.5	46.1	39.1	38.6	37.9	30.9	30.2	28.0	26.6	27.0	25.4	26.5	28.2	28.8	39.6	41.1	43.6	61.8	25.4	41.4
08/24/10	40.1	43.5	45.1	45.2	45.8	46.1	44.0	35.2	33.0	30.7	29.2	27.9	24.8	24.4	25.9	54.4	32.1	40.3	42.4	51.3	53.8	65.3	66.0	66.6	66.6	24.4	42.2
08/25/10	66.7	61.3	61.9	67.2	66.4	62.7	59.9	57.4	47.6	46.5	41.0	35.4	35.5	33.5	32.8	33.3	33.1	33.7	34.7	37.6	39.3	41.9	41.8	43.7	67.2	32.8	46.4
08/26/10	43.1	44.1	48.8	44.7	43.3	43.4	40.5	38.4	38.5	35.1	31.1	33.7	33.5	33.1	35.5	33.3	36.1	37.6	38.5	51.7	53.5	54.2	56.9	50.8	56.9	31.1	41.6
08/27/10	36.3	47.8	59.8	54.2	58.9	73.4	64.1	53.0	52.1	43.6	48.1	46.8	55.1	55.5	51.9	53.2	53.8	49.7	72.0	72.6	65.8	66.8	63.3	68.6	73.4	36.3	56.9
08/28/10	66.8	71.4	72.3	73.8	75.6	78.6	75.4	72.3	62.2	56.2	53.1	52.9	51.2	44.8	41.7	40.6	45.7	52.4	57.5	55.7	73.2	75.5	72.6	54.4	78.6	40.6	61.5
08/29/10	64.9	67.5	67.0	66.1	68.2	71.4	73.6	66.2	59.9	57.1	57.5	54.3	51.0	57.7	38.5	52.8	37.1	65.7	68.0	51.5	60.5	64.4	67.2	65.7	73.6	37.1	60.6
08/30/10	65.0	68.2	68.8	69.3	70.3	75.2	77.3	68.1	69.8	67.9	58.9	54.2	55.5	42.4	45.3	38.3	35.7	35.7	38.7	35.2	33.3	31.9	36.9	42.8	77.3	31.9	53.5
08/31/10	35.6	35.7	33.5	26.3	30.9	28.6	35.2	31.4	35.1	57.8	56.3	47.8	43.8	38.3	37.1	35.1	32.5	31.8	36.1	34.2	45.1	47.2	46.6	41.7	57.8	26.3	38.5
Hourly Averages	50.2	52.1	54.2	54.5	57.2	58.7	56.7	49.1	44.6	41.8	39.4	36.4	35.1	32.1	30.8	31.3	31.5	33.4	36.3	38.2	42.4	46.1	47.8	48.5			

Maximum Hourly Humidity: 96.4 **Minimum Hourly Humidity:** 14.6

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

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	46.5	48.2	47.4	50.1	54.7	56.7	51.2	41.5	36.0	32.5	32.4	28.6	24.1	22.3	17.9	18.9	15.7	17.8	15.0	14.9	16.5	20.5	25.9	25.7	56.7	14.9	31.7
09/02/10	26.4	27.2	27.6	30.2	32.3	33.2	36.3	30.0	24.5	21.5	21.7	18.8	15.3	15.3	14.2	14.5	14.2	14.6	15.4	15.5	15.3	15.0	15.3	14.9	36.3	14.2	21.2
09/03/10	19.2	21.4	23.5	22.6	22.9	25.1	29.0	23.9	23.0	23.6	22.3	24.1	22.4	20.3	19.2	18.8	20.2	19.8	24.3	27.0	26.7	29.9	29.9	30.5	30.5	18.8	23.7
09/04/10	33.0	33.8	35.1	37.3	44.9	49.7	45.9	43.3	39.7	36.1	32.7	25.4	21.2	17.9	14.4	15.8	15.0	16.3	18.4	19.4	21.5	25.7	26.8	28.2	49.7	14.4	29.1
09/05/10	29.9	28.3	30.3	29.9	32.6	30.3	31.1	28.3	23.7	23.1	22.6	21.2	19.8	22.4	19.3	17.9	19.0	19.4	21.2	22.1	23.7	26.4	27.5	27.9	32.6	17.9	24.9
09/06/10	39.8	46.8	56.0	58.5	61.1	62.5	55.8	55.1	54.6	49.1	45.5	39.3	36.4	35.6	37.2	75.6	45.7	46.1	42.9	49.1	58.6	54.2	54.4	54.8	75.6	35.6	50.6
09/07/10	53.7	57.4	62.3	62.4	63.3	62.3	62.5	37.9	25.1	32.0	28.6	25.3	28.4	27.0	26.7	27.4	31.1	43.4	56.9	56.6	53.8	53.2	59.4	58.5	63.3	25.1	45.6
09/08/10	65.5	64.1	64.7	63.8	38.8	53.7	52.5	50.1	56.1	55.7	51.7	49.8	46.8	44.5	40.0	29.3	28.4	28.0	28.3	28.7	26.4	29.1	31.9	23.4	65.5	23.4	43.8
09/09/10	23.2	30.1	31.4	40.5	41.9	47.3	50.5	52.6	46.6	38.4	38.6	29.3	31.2	33.4	26.4	25.6	23.1	19.8	14.0	13.5	19.9	23.8	27.1	29.2	52.6	13.5	31.6
09/10/10	30.7	23.7	27.7	33.9	31.5	33.5	32.6	23.7	14.7	13.0	11.7	12.2	12.4	12.1	10.9	11.5	12.1	13.8	13.8	15.5	20.5	21.6	24.4	19.4	33.9	10.9	19.9
09/11/10	19.4	23.1	21.4	22.2	24.8	28.2	26.9	23.2	13.7	14.3	14.1	13.3	13.1	11.5	10.9	11.5	13.1	13.8	14.1	14.7	15.8	19.2	19.0	17.6	28.2	10.9	17.4
09/12/10	20.1	20.0	21.6	23.2	24.3	25.3	26.2	20.4	15.5	14.3	14.2	13.4	14.0	13.8	13.3	12.8	13.3	14.1	14.6	15.0	16.9	18.3	19.1	21.3	26.2	12.8	17.7
09/13/10	19.7	20.8	21.8	25.3	32.6	40.0	35.0	28.9	26.1	21.3	17.5	18.2	16.0	14.2	14.1	13.5	12.6	11.9	11.8	11.7	12.0	11.6	11.4	12.9	40.0	11.4	19.2
09/14/10	13.7	14.8	16.4	15.8	21.8	22.4	25.5	30.1	29.2	30.0	23.3	23.9	20.5	17.2	14.0	12.8	12.4	13.3	14.3	14.4	14.8	14.2	15.0	19.8	30.1	12.4	18.7
09/15/10	21.8	23.0	24.0	26.1	27.7	28.7	27.7	27.0	19.6	21.6	21.9	21.7	19.7	19.3	18.4	18.8	19.4	19.5	18.4	22.2	25.4	25.7	28.6	28.5	28.7	18.4	23.1
09/16/10	26.8	26.7	25.8	30.7	31.1	31.9	32.5	28.4	22.3	18.8	18.8	15.6	14.1	13.8	14.7	15.0	14.6	14.4	15.3	15.6	17.1	17.2	20.6	20.9	32.5	13.8	20.9
09/17/10	19.8	14.8	15.3	20.5	26.8	37.9	35.0	36.9	33.0	25.9	19.7	11.8	12.6	11.0	10.0	9.6	9.7	10.4	12.7	13.7	13.8	15.6	13.0	11.7	37.9	9.6	18.4
09/18/10	12.5	14.6	18.8	14.4	17.3	17.0	17.1	20.2	21.6	23.6	18.9	13.1	12.4	12.0	11.5	10.9	10.6	11.0	11.7	11.8	12.3	14.7	14.3	14.0	23.6	10.6	14.8
09/19/10	14.3	14.5	15.7	19.5	25.6	30.2	36.3	33.2	32.3	28.5	28.4	25.2	23.2	15.9	19.3	20.0	20.3	23.7	23.8	26.4	27.7	28.3	29.0	30.6	36.3	14.3	24.7
09/20/10	32.7	35.3	36.6	41.6	43.4	45.7	47.4	42.5	37.0	37.1	36.0	35.4	27.3	23.0	21.2	18.1	17.6	18.8	15.4	17.6	21.0	22.8	23.6	39.0	47.4	15.4	30.7
09/21/10	45.7	53.0	55.8	59.6	58.6	64.1	61.2	59.7	58.8	53.5	46.3	41.8	42.3	38.1	33.8	33.5	35.4	36.5	37.5	51.2	55.7	56.1	59.0	60.5	64.1	33.5	49.9
09/22/10	62.2	64.8	85.8	90.5	85.0	91.0	92.4	90.7	87.9	87.5	87.9	81.6	73.8	65.1	64.0	63.1	55.8	57.4	63.3	64.7	79.4	79.9	78.2	63.0	92.4	55.8	75.6
09/23/10	61.0	62.8	65.2	75.7	77.7	79.2	81.7	65.5	50.5	32.6	23.3	23.5	26.9	24.8	21.3	22.7	24.2	24.0	23.4	23.3	32.6	33.9	33.5	37.0	81.7	21.3	42.8
09/24/10	35.3	38.0	38.3	37.3	40.6	40.6	37.5	33.6	28.0	26.5	27.6	27.6	25.6	24.6	21.6	21.1	20.7	26.3	22.3	29.0	31.5	26.6	27.2	23.9	40.6	20.7	29.6
09/25/10	24.5	25.4	25.7	27.5	31.8	33.6	33.0	28.0	28.7	26.4	26.2	26.1	20.2	21.0	25.2	25.3	24.7	26.4	31.5	33.2	25.7	24.2	26.1	27.7	33.6	20.2	27.0
09/26/10	29.1	30.1	30.9	32.1	42.3	46.2	49.0	46.5	39.3	34.0	29.5	26.3	22.9	19.7	20.7	21.1	20.8	22.4	24.2	26.2	31.7	32.7	31.4	33.6	49.0	19.7	30.9
09/27/10	38.9	33.0	32.5	35.1	33.7	35.9	37.3	33.6	32.2	29.4	25.5	23.2	19.3	18.0	14.5	15.0	15.6	17.7	19.7	22.6	20.7	23.5	27.0	28.0	38.9	14.5	26.3
09/28/10	32.7	32.8	29.5	30.0	31.2	33.4	32.2	28.5	26.7	23.2	23.4	19.8	18.4	13.3	13.2	12.6	21.1	24.4	26.1	30.5	26.4	21.9	23.3	20.3	33.4	12.6	24.8
09/29/10	21.1	24.2	22.3	28.0	26.9	29.6	31.3	27.0	22.3	18.6	15.0	18.6	17.0	14.7	15.2	16.1	18.2	21.1	21.6	22.0	24.0	23.8	21.4	23.4	31.3	14.7	21.8
09/30/10	23.6	24.8	28.3	26.4	29.2	30.1	27.8	25.6	21.0	19.5	15.4	14.0	13.3	11.9	11.1	11.4	12.3	13.8	15.1	18.5	19.3	19.9	20.4	20.4	30.1	11.1	19.7
Hourly Averages	31.4	32.6	34.6	37.0	38.5	41.5	41.3	37.2	33.0	30.4	28.0	25.6	23.7	21.8	20.5	21.3	20.6	22.0	22.9	24.9	26.9	27.7	28.8	28.9			

Maximum Hourly Humidity: 92.4 **Minimum Hourly Humidity:** 9.6

Total Number of Observations: 720 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-F

HOURLY BAROMETRIC PRESSURE DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	25.74	25.74	25.73	25.74	25.75	25.77	25.77	25.79	25.79	25.78	25.78	25.77	25.76	25.73	25.72	25.69	25.68	25.67	25.67	25.66	25.67	25.69	25.69	25.69	25.79	25.66	25.73
07/02/10	25.68	25.67	25.67	25.67	25.68	25.68	25.69	25.70	25.70	25.69	25.68	25.68	25.66	25.63	25.63	25.60	25.59	25.57	25.56	25.56	25.58	25.60	25.61	25.61	25.70	25.56	25.64
07/03/10	25.62	25.62	25.62	25.63	25.63	25.65	25.67	25.68	25.69	25.68	25.69	25.69	25.68	25.67	25.66	25.64	25.63	25.63	25.62	25.63	25.63	25.64	25.67	25.68	25.69	25.62	25.65
07/04/10	25.69	25.69	25.70	25.71	25.72	25.73	25.75	25.76	25.77	25.77	25.77	25.78	25.78	25.76	25.75	25.74	25.73	25.72	25.72	25.71	25.72	25.74	25.76	25.77	25.78	25.69	25.74
07/05/10	25.76	25.76	25.76	25.77	25.76	25.78	25.79	25.81	25.81	25.81	25.80	25.80	25.79	25.77	25.75	25.73	25.72	25.71	25.70	25.71	25.71	25.72	25.73	25.73	25.81	25.70	25.76
07/06/10	25.73	25.73	25.72	25.71	25.72	25.73	25.74	25.75	25.76	25.75	25.75	25.74	25.74	25.72	25.70	25.68	25.66	25.65	25.65	25.65	25.66	25.67	25.68	25.68	25.76	25.65	25.71
07/07/10	25.68	25.66	25.67	25.67	25.67	25.68	25.70	25.71	25.72	25.72	25.74	25.74	25.72	25.71	25.69	25.68	25.67	25.65	25.66	25.69	25.71	25.72	25.74	25.74	25.74	25.65	25.70
07/08/10	25.73	25.73	25.74	25.74	25.74	25.75	25.77	25.77	25.79	25.78	25.79	25.78	25.77	25.76	25.74	25.72	25.70	25.68	25.70	25.71	25.72	25.75	25.77	25.77	25.79	25.68	25.75
07/09/10	25.77	25.77	25.76	25.76	25.77	25.78	25.79	25.81	25.82	25.82	25.83	25.82	25.80	25.78	25.77	25.75	25.74	25.73	25.72	25.72	25.74	25.76	25.78	25.78	25.83	25.72	25.77
07/10/10	25.78	25.78	25.78	25.78	25.78	25.79	25.80	25.81	25.81	25.81	25.81	25.80	25.79	25.76	25.74	25.73	25.73	25.72	25.73	25.73	25.74	25.76	25.76	25.77	25.81	25.72	25.77
07/11/10	25.76	25.77	25.77	25.76	25.76	25.76	25.76	25.76	25.77	25.78	25.78	25.77	25.76	25.74	25.72	25.70	25.69	25.69	25.70	25.71	25.73	25.75	25.75	25.76	25.78	25.69	25.75
07/12/10	25.77	25.76	25.75	25.76	25.76	25.77	25.78	25.79	25.80	25.80	25.80	25.80	25.79	25.76	25.75	25.72	25.71	25.69	25.69	25.70	25.72	25.74	25.75	25.76	25.80	25.69	25.75
07/13/10	25.76	25.75	25.75	25.75	25.76	25.76	25.77	25.78	25.78	25.78	25.78	25.77	25.76	25.74	25.72	25.70	25.69	25.68	25.68	25.70	25.71	25.73	25.74	25.76	25.78	25.68	25.74
07/14/10	25.76	25.76	25.77	25.76	25.77	25.79	25.81	25.82	25.84	25.84	25.84	25.84	25.83	25.81	25.79	25.84	25.80	25.79	25.78	25.79	25.80	25.80	25.80	25.80	25.84	25.76	25.80
07/15/10	25.81	25.81	25.81	25.81	25.81	25.83	25.84	25.85	25.86	25.86	25.86	25.85	25.84	25.82	25.80	25.78	25.77	25.76	25.77	25.79	25.80	25.82	25.84	25.84	25.86	25.76	25.82
07/16/10	25.82	25.84	25.85	25.84	25.85	25.86	25.87	25.88	25.88	25.88	25.89	25.88	25.89	25.88	25.84	25.82	25.80	25.79	25.79	25.80	25.82	25.88	25.88	25.86	25.89	25.79	25.85
07/17/10	25.84	25.83	25.82	25.81	25.83	25.84	25.85	25.87	25.89	25.88	25.88	25.88	25.86	25.84	25.82	25.79	25.77	25.76	25.76	25.76	25.78	25.80	25.84	25.86	25.89	25.76	25.83
07/18/10	25.88	25.87	25.85	25.84	25.83	25.84	25.85	25.87	25.86	25.85	25.85	25.83	25.82	25.81	25.79	25.76	25.76	25.75	25.75	25.78	25.75	25.76	25.81	25.81	25.88	25.75	25.82
07/19/10	25.78	25.77	25.76	25.76	25.78	25.80	25.81	25.82	25.83	25.83	25.82	25.80	25.79	25.77	25.75	25.72	25.70	25.69	25.69	25.69	25.70	25.73	25.75	25.77	25.83	25.69	25.76
07/20/10	25.78	25.78	25.81	25.80	25.78	25.77	25.76	25.77	25.77	25.78	25.78	25.78	25.78	25.76	25.73	25.72	25.71	25.70	25.70	25.71	25.72	25.74	25.75	25.76	25.81	25.70	25.76
07/21/10	25.74	25.74	25.74	25.74	25.75	25.76	25.77	25.78	25.79	25.80	25.81	25.81	25.80	25.78	25.76	25.74	25.72	25.72	25.71	25.70	25.72	25.76	25.78	25.78	25.81	25.70	25.76
07/22/10	25.83	25.84	25.83	25.81	25.79	25.79	25.79	25.80	25.83	25.84	25.84	25.84	25.83	25.81	25.79	25.78	25.76	25.76	25.76	25.76	25.77	25.78	25.79	25.79	25.84	25.76	25.80
07/23/10	25.77	25.77	25.77	25.76	25.77	25.77	25.77	25.79	25.80	25.80	25.80	25.80	25.78	25.78	25.76	25.75	25.74	25.73	25.73	25.75	25.75	25.77	25.77	25.77	25.80	25.73	25.77
07/24/10	25.76	25.75	25.74	25.75	25.75	25.76	25.77	25.78	25.78	25.79	25.79	25.78	25.78	25.76	25.73	25.72	25.72	25.74	25.76	25.76	25.73	25.75	25.76	25.76	25.79	25.72	25.76
07/25/10	25.77	25.76	25.75	25.74	25.75	25.75	25.77	25.77	25.79	25.79	25.79	25.79	25.76	25.74	25.74	25.72	25.72	25.72	25.72	25.74	25.75	25.77	25.77	25.78	25.79	25.72	25.76
07/26/10	25.77	25.77	25.77	25.76	25.76	25.76	25.77	25.78	25.80	25.80	25.81	25.80	25.78	25.76	25.74	25.72	25.69	25.70	25.69	25.72	25.74	25.76	25.76	25.76	25.81	25.69	25.76
07/27/10	25.76	25.75	25.75	25.75	25.75	25.76	25.77	25.79	25.80	25.80	25.80	25.79	25.78	25.76	25.75	25.73	25.74	25.73	25.73	25.76	25.78	25.81	25.80	25.80	25.81	25.73	25.77
07/28/10	25.80	25.80	25.80	25.80	25.80	25.81	25.83	25.84	25.84	25.85	25.85	25.85	25.84	25.83	25.80	25.78	25.78	25.80	25.79	25.79	25.81	25.84	25.84	25.85	25.85	25.78	25.82
07/29/10	25.86	25.85	25.85	25.83	25.83	25.85	25.87	25.88	25.88	25.89	25.88	25.88	25.86	25.84	25.82	25.80	25.81	25.79	25.81	25.81	25.82	25.83	25.83	25.83	25.89	25.79	25.84
07/30/10	25.84	25.85	25.85	25.85	25.84	25.84	25.85	25.85	25.85	25.86	25.87	25.86	25.84	25.81	25.80	25.78	25.76	25.77	25.77	25.78	25.79	25.81	25.81	25.82	25.87	25.76	25.82
07/31/10	25.82	25.82	25.80	25.80	25.80	25.80	25.81	25.83	25.84	25.84	25.85	25.84	25.83	25.81	25.79	25.78	25.77	25.77	25.77	25.77	25.79	25.81	25.82	25.81	25.85	25.77	25.81
Hourly Averages	25.77	25.77	25.77	25.76	25.77	25.77	25.79	25.80	25.80	25.80	25.81	25.80	25.79	25.77	25.75	25.74	25.72	25.72	25.72	25.73	25.74	25.76	25.77	25.77			

Maximum Hourly Pressure: 25.89 **Minimum Hourly Pressure:** 25.56

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

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	25.81	25.80	25.81	25.80	25.79	25.80	25.81	25.82	25.84	25.84	25.84	25.82	25.82	25.81	25.80	25.79	25.77	25.77	25.77	25.79	25.80	25.81	25.81	25.82	25.84	25.77	25.81
08/02/10	25.82	25.82	25.82	25.82	25.82	25.83	25.84	25.85	25.86	25.86	25.87	25.86	25.85	25.84	25.82	25.81	25.81	25.81	25.80	25.81	25.83	25.84	25.85	25.84	25.87	25.80	25.83
08/03/10	25.84	25.84	25.83	25.84	25.85	25.86	25.87	25.89	25.89	25.89	25.90	25.89	25.88	25.87	25.86	25.84	25.82	25.81	25.81	25.82	25.82	25.84	25.85	25.83	25.90	25.81	25.85
08/04/10	25.83	25.83	25.82	25.81	25.83	25.83	25.85	25.85	25.85	25.85	25.85	25.85	25.84	25.83	25.81	25.79	25.78	25.76	25.76	25.76	25.77	25.79	25.79	25.78	25.85	25.76	25.81
08/05/10	25.78	25.78	25.77	25.77	25.77	25.77	25.78	25.79	25.80	25.80	25.80	25.80	25.78	25.76	25.74	25.72	25.70	25.69	25.69	25.70	25.72	25.74	25.75	25.75	25.80	25.69	25.76
08/06/10	25.74	25.74	25.73	25.73	25.74	25.75	25.77	25.78	25.80	25.81	25.81	25.80	25.79	25.78	25.76	25.74	25.73	25.71	25.71	25.72	25.72	25.74	25.75	25.74	25.81	25.71	25.75
08/07/10	25.75	25.76	25.78	25.78	25.78	25.78	25.77	25.77	25.78	25.79	25.80	25.80	25.79	25.78	25.76	25.74	25.72	25.71	25.71	25.72	25.73	25.75	25.76	25.78	25.80	25.71	25.76
08/08/10	25.79	25.80	25.79	25.78	25.78	25.79	25.80	25.81	25.83	25.82	25.83	25.82	25.81	25.79	25.77	25.76	25.74	25.72	25.72	25.72	25.74	25.76	25.77	25.78	25.83	25.72	25.78
08/09/10	25.78	25.79	25.79	25.78	25.77	25.77	25.79	25.80	25.81	25.81	25.82	25.81	25.80	25.80	25.78	25.76	25.75	25.74	25.72	25.73	25.74	25.77	25.77	25.79	25.82	25.72	25.78
08/10/10	25.78	25.77	25.77	25.77	25.77	25.78	25.79	25.80	25.81	25.82	25.82	25.82	25.81	25.80	25.79	25.78	25.76	25.75	25.75	25.75	25.76	25.78	25.78	25.78	25.82	25.75	25.78
08/11/10	25.78	25.78	25.78	25.78	25.79	25.79	25.80	25.81	25.82	25.82	25.82	25.82	25.80	25.79	25.78	25.76	25.74	25.73	25.71	25.72	25.73	25.75	25.75	25.75	25.82	25.71	25.77
08/12/10	25.75	25.75	25.74	25.73	25.73	25.73	25.75	25.76	25.77	25.76	25.76	25.76	25.74	25.74	25.71	25.68	25.67	25.65	25.64	25.66	25.67	25.68	25.68	25.69	25.77	25.64	25.72
08/13/10	25.70	25.70	25.70	25.71	25.71	25.71	25.72	25.73	25.73	25.74	25.74	25.74	25.72	25.72	25.70	25.68	25.66	25.65	25.65	25.65	25.67	25.69	25.70	25.69	25.74	25.65	25.70
08/14/10	25.69	25.70	25.70	25.71	25.71	25.71	25.73	25.76	25.77	25.77	25.76	25.76	25.74	25.74	25.73	25.71	25.70	25.70	25.70	25.71	25.72	25.73	25.74	25.75	25.77	25.69	25.73
08/15/10	25.77	25.77	25.79	25.80	25.80	25.78	25.79	25.80	25.81	25.82	25.82	25.80	25.79	25.77	25.75	25.74	25.72	25.71	25.72	25.73	25.77	25.80	25.80	25.82	25.82	25.71	25.78
08/16/10	25.81	25.81	25.79	25.78	25.80	25.85	25.88	25.89	25.88	25.86	25.86	25.85	25.84	25.83	25.81	25.79	25.77	25.77	25.77	25.79	25.81	25.83	25.84	25.84	25.89	25.77	25.82
08/17/10	25.84	25.83	25.83	25.82	25.82	25.82	25.84	25.85	25.85	25.85	25.86	25.85	25.83	25.81	25.79	25.78	25.76	25.82	25.83	25.83	25.85	25.87	25.87	25.87	25.87	25.76	25.83
08/18/10	25.85	25.84	25.82	25.81	25.81	25.82	25.84	25.85	25.86	25.86	25.86	25.86	25.86	25.84	25.82	25.80	25.78	25.78	25.77	25.78	25.78	25.79	25.79	25.79	25.86	25.77	25.82
08/19/10	25.79	25.77	25.77	25.77	25.77	25.77	25.78	25.79	25.79	25.79	25.80	25.78	25.77	25.76	25.73	25.70	25.69	25.68	25.67	25.68	25.70	25.71	25.71	25.71	25.80	25.67	25.75
08/20/10	25.71	25.70	25.70	25.70	25.70	25.70	25.71	25.73	25.74	25.75	25.75	25.75	25.74	25.72	25.70	25.68	25.66	25.65	25.64	25.66	25.68	25.71	25.72	25.72	25.75	25.64	25.70
08/21/10	25.72	25.73	25.73	25.73	25.74	25.75	25.78	25.79	25.81	25.81	25.80	25.80	25.79	25.78	25.76	25.75	25.73	25.72	25.73	25.74	25.77	25.79	25.87	25.85	25.87	25.72	25.77
08/22/10	25.86	25.83	25.82	25.80	25.79	25.79	25.81	25.83	25.84	25.85	25.85	25.84	25.84	25.82	25.81	25.79	25.78	25.77	25.77	25.78	25.78	25.80	25.80	25.81	25.86	25.77	25.81
08/23/10	25.81	25.80	25.79	25.79	25.80	25.80	25.81	25.83	25.84	25.84	25.84	25.84	25.83	25.81	25.79	25.77	25.76	25.76	25.76	25.77	25.78	25.78	25.80	25.80	25.84	25.76	25.80
08/24/10	25.80	25.79	25.79	25.79	25.78	25.79	25.79	25.81	25.81	25.83	25.83	25.83	25.82	25.80	25.77	25.76	25.79	25.78	25.79	25.81	25.84	25.86	25.87	25.88	25.88	25.76	25.81
08/25/10	25.88	25.87	25.87	25.86	25.86	25.86	25.85	25.85	25.88	25.88	25.89	25.88	25.88	25.87	25.85	25.84	25.84	25.82	25.82	25.83	25.85	25.86	25.87	25.88	25.89	25.82	25.86
08/26/10	25.88	25.87	25.87	25.86	25.86	25.86	25.88	25.89	25.90	25.90	25.91	25.91	25.90	25.89	25.88	25.85	25.83	25.81	25.80	25.80	25.82	25.83	25.83	25.82	25.91	25.80	25.86
08/27/10	25.81	25.81	25.81	25.80	25.79	25.80	25.81	25.81	25.80	25.81	25.82	25.81	25.79	25.78	25.75	25.72	25.71	25.70	25.71	25.73	25.73	25.73	25.74	25.73	25.82	25.70	25.77
08/28/10	25.73	25.72	25.71	25.70	25.70	25.70	25.71	25.72	25.73	25.73	25.73	25.72	25.71	25.69	25.67	25.64	25.62	25.62	25.62	25.62	25.63	25.68	25.68	25.68	25.73	25.62	25.69
08/29/10	25.67	25.67	25.66	25.66	25.66	25.67	25.68	25.69	25.69	25.70	25.71	25.70	25.68	25.65	25.65	25.62	25.61	25.60	25.62	25.63	25.64	25.66	25.67	25.68	25.71	25.60	25.66
08/30/10	25.69	25.69	25.68	25.69	25.70	25.71	25.72	25.74	25.75	25.77	25.77	25.77	25.76	25.75	25.73	25.73	25.72	25.71	25.71	25.72	25.74	25.77	25.78	25.79	25.79	25.68	25.73
08/31/10	25.80	25.81	25.81	25.81	25.81	25.81	25.82	25.83	25.84	25.84	25.85	25.85	25.84	25.82	25.80	25.79	25.77	25.76	25.76	25.76	25.77	25.79	25.80	25.81	25.85	25.76	25.81
Hourly Averages	25.78	25.78	25.78	25.77	25.78	25.78	25.79	25.80	25.81	25.82	25.82	25.81	25.80	25.79	25.77	25.75	25.74	25.73	25.73	25.74	25.75	25.77	25.78	25.78			

Maximum Hourly Pressure: 25.91 **Minimum Hourly Pressure:** 25.60

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

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	25.80	25.79	25.79	25.79	25.79	25.79	25.79	25.80	25.81	25.81	25.82	25.81	25.79	25.77	25.75	25.72	25.71	25.70	25.70	25.71	25.73	25.74	25.75	25.75	25.82	25.70	25.77
09/02/10	25.75	25.75	25.74	25.75	25.75	25.75	25.77	25.78	25.79	25.80	25.80	25.79	25.78	25.77	25.75	25.74	25.73	25.74	25.74	25.75	25.77	25.79	25.80	25.81	25.81	25.73	25.77
09/03/10	25.81	25.81	25.80	25.81	25.81	25.81	25.83	25.85	25.87	25.87	25.87	25.87	25.87	25.85	25.83	25.80	25.80	25.80	25.80	25.80	25.83	25.85	25.86	25.85	25.87	25.80	25.83
09/04/10	25.85	25.85	25.86	25.86	25.85	25.85	25.87	25.88	25.88	25.88	25.88	25.87	25.86	25.83	25.81	25.78	25.76	25.75	25.74	25.74	25.75	25.76	25.77	25.77	25.88	25.74	25.82
09/05/10	25.77	25.76	25.75	25.75	25.74	25.75	25.75	25.76	25.76	25.76	25.76	25.74	25.72	25.70	25.67	25.65	25.63	25.62	25.60	25.60	25.62	25.63	25.63	25.64	25.77	25.60	25.70
09/06/10	25.65	25.66	25.66	25.66	25.67	25.67	25.68	25.69	25.71	25.71	25.73	25.72	25.70	25.68	25.66	25.66	25.67	25.65	25.65	25.65	25.68	25.69	25.70	25.70	25.73	25.65	25.68
09/07/10	25.71	25.71	25.71	25.71	25.71	25.72	25.73	25.74	25.75	25.75	25.76	25.76	25.74	25.73	25.71	25.69	25.68	25.69	25.70	25.70	25.72	25.73	25.74	25.74	25.76	25.68	25.72
09/08/10	25.74	25.75	25.74	25.73	25.73	25.73	25.73	25.75	25.74	25.75	25.75	25.74	25.72	25.70	25.68	25.66	25.64	25.64	25.63	25.63	25.65	25.67	25.69	25.70	25.75	25.63	25.70
09/09/10	25.71	25.71	25.70	25.70	25.69	25.70	25.71	25.72	25.73	25.74	25.74	25.74	25.73	25.71	25.70	25.66	25.67	25.66	25.67	25.67	25.69	25.71	25.72	25.73	25.74	25.66	25.70
09/10/10	25.73	25.74	25.75	25.75	25.76	25.77	25.78	25.80	25.81	25.82	25.83	25.84	25.83	25.82	25.81	25.80	25.79	25.79	25.79	25.80	25.82	25.83	25.83	25.84	25.84	25.73	25.80
09/11/10	25.84	25.84	25.83	25.84	25.83	25.84	25.85	25.87	25.87	25.88	25.88	25.87	25.86	25.85	25.83	25.81	25.80	25.80	25.80	25.81	25.82	25.83	25.83	25.84	25.88	25.80	25.84
09/12/10	25.83	25.83	25.83	25.83	25.82	25.83	25.84	25.85	25.86	25.87	25.87	25.86	25.85	25.84	25.81	25.80	25.79	25.79	25.79	25.79	25.81	25.82	25.82	25.83	25.87	25.79	25.83
09/13/10	25.83	25.83	25.83	25.83	25.83	25.83	25.84	25.85	25.85	25.86	25.86	25.85	25.83	25.81	25.79	25.77	25.76	25.75	25.75	25.76	25.79	25.80	25.80	25.80	25.86	25.75	25.81
09/14/10	25.79	25.79	25.79	25.80	25.80	25.81	25.82	25.84	25.85	25.86	25.85	25.84	25.83	25.81	25.79	25.77	25.77	25.76	25.77	25.77	25.79	25.80	25.80	25.80	25.86	25.76	25.80
09/15/10	25.80	25.80	25.80	25.80	25.80	25.81	25.81	25.83	25.84	25.85	25.84	25.84	25.82	25.80	25.78	25.77	25.76	25.76	25.76	25.76	25.78	25.79	25.80	25.79	25.85	25.76	25.80
09/16/10	25.79	25.79	25.79	25.78	25.79	25.79	25.80	25.82	25.82	25.83	25.83	25.82	25.80	25.79	25.76	25.74	25.72	25.72	25.71	25.72	25.73	25.74	25.75	25.75	25.83	25.71	25.77
09/17/10	25.75	25.75	25.75	25.74	25.74	25.75	25.77	25.78	25.79	25.80	25.80	25.80	25.78	25.77	25.76	25.74	25.72	25.72	25.72	25.72	25.74	25.75	25.76	25.76	25.80	25.72	25.76
09/18/10	25.76	25.76	25.76	25.77	25.77	25.77	25.78	25.81	25.81	25.82	25.82	25.80	25.79	25.77	25.75	25.73	25.72	25.71	25.72	25.72	25.73	25.75	25.75	25.75	25.82	25.71	25.76
09/19/10	25.75	25.75	25.75	25.76	25.76	25.77	25.78	25.79	25.79	25.80	25.79	25.78	25.76	25.73	25.71	25.69	25.67	25.66	25.66	25.66	25.68	25.69	25.69	25.69	25.80	25.66	25.73
09/20/10	25.68	25.67	25.67	25.66	25.66	25.66	25.68	25.68	25.69	25.69	25.69	25.69	25.68	25.65	25.62	25.60	25.59	25.58	25.58	25.60	25.62	25.64	25.64	25.65	25.69	25.58	25.65
09/21/10	25.66	25.67	25.66	25.65	25.66	25.67	25.68	25.69	25.69	25.70	25.70	25.68	25.67	25.64	25.62	25.60	25.58	25.57	25.57	25.57	25.60	25.62	25.62	25.61	25.70	25.57	25.64
09/22/10	25.61	25.61	25.61	25.59	25.59	25.59	25.60	25.61	25.61	25.63	25.63	25.62	25.61	25.59	25.58	25.56	25.55	25.55	25.55	25.56	25.57	25.60	25.60	25.63	25.63	25.55	25.59
09/23/10	25.64	25.65	25.66	25.67	25.69	25.70	25.72	25.74	25.75	25.77	25.79	25.78	25.78	25.76	25.75	25.74	25.74	25.74	25.75	25.77	25.78	25.80	25.81	25.82	25.82	25.64	25.74
09/24/10	25.83	25.83	25.83	25.83	25.84	25.84	25.86	25.87	25.89	25.89	25.91	25.90	25.89	25.88	25.85	25.84	25.83	25.82	25.83	25.84	25.86	25.87	25.87	25.88	25.91	25.82	25.86
09/25/10	25.88	25.87	25.86	25.85	25.85	25.85	25.86	25.88	25.88	25.89	25.89	25.88	25.86	25.84	25.82	25.80	25.79	25.79	25.79	25.79	25.81	25.81	25.81	25.82	25.89	25.79	25.84
09/26/10	25.82	25.82	25.82	25.82	25.83	25.85	25.86	25.88	25.88	25.87	25.88	25.87	25.86	25.83	25.80	25.78	25.78	25.76	25.77	25.78	25.78	25.80	25.81	25.81	25.88	25.76	25.82
09/27/10	25.81	25.81	25.80	25.79	25.79	25.80	25.81	25.81	25.83	25.83	25.83	25.82	25.81	25.79	25.77	25.75	25.75	25.74	25.75	25.77	25.79	25.81	25.82	25.83	25.83	25.74	25.80
09/28/10	25.83	25.83	25.83	25.82	25.82	25.82	25.83	25.84	25.85	25.85	25.85	25.84	25.82	25.80	25.77	25.75	25.74	25.74	25.74	25.75	25.76	25.77	25.77	25.77	25.85	25.74	25.80
09/29/10	25.77	25.76	25.76	25.75	25.75	25.75	25.76	25.76	25.77	25.76	25.75	25.74	25.72	25.70	25.68	25.66	25.65	25.64	25.65	25.66	25.67	25.68	25.68	25.69	25.77	25.64	25.71
09/30/10	25.69	25.69	25.69	25.69	25.69	25.70	25.72	25.73	25.75	25.76	25.76	25.75	25.74	25.74	25.72	25.70	25.69	25.70	25.71	25.73	25.76	25.78	25.79	25.80	25.80	25.69	25.73
Hourly Averages	25.76	25.76	25.76	25.76	25.76	25.77	25.78	25.79	25.80	25.80	25.81	25.80	25.78	25.77	25.74	25.73	25.72	25.71	25.71	25.72	25.74	25.75	25.76	25.76			

Maximum Hourly Pressure: 25.91 **Minimum Hourly Pressure:** 25.55

Total Number of Observations: 720 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-G

HOURLY SOLAR RADIATION DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	0.0	0.0	0.0	0.0	0.0	24.7	165.2	344.3	522.9	679.3	801.0	872.0	896.0	785.9	501.9	423.4	317.3	122.8	47.5	12.5	0.0	0.0	0.0	0.0	896.0	12.5	434.4
07/02/10	0.0	0.0	0.0	0.0	0.0	20.0	166.0	350.1	534.5	676.9	794.3	866.0	844.0	371.9	644.1	432.0	459.2	280.2	114.9	9.6	0.0	0.0	0.0	0.0	866.0	9.6	437.6
07/03/10	0.0	0.0	0.0	0.0	0.0	17.1	170.6	351.4	531.4	691.3	812.0	888.0	918.0	880.0	810.0	695.4	526.2	335.6	99.2	7.7	0.0	0.0	0.0	0.0	918.0	7.7	515.6
07/04/10	0.0	0.0	0.0	0.0	0.0	21.0	172.4	355.0	540.1	702.7	822.0	894.0	915.0	891.0	816.0	687.8	517.4	333.7	99.4	7.6	0.0	0.0	0.0	0.0	915.0	7.6	518.3
07/05/10	0.0	0.0	0.0	0.0	0.0	19.7	166.9	349.3	537.3	700.6	825.0	899.0	920.0	888.0	811.0	683.5	520.3	334.8	101.5	7.7	0.0	0.0	0.0	0.0	920.0	7.7	517.6
07/06/10	0.0	0.0	0.0	0.0	0.0	19.4	166.4	348.1	537.1	702.7	828.0	902.0	921.0	891.0	819.0	689.3	526.0	337.7	104.1	7.3	0.0	0.0	0.0	0.0	921.0	7.3	519.9
07/07/10	0.0	0.0	0.0	0.0	0.0	13.7	159.9	329.0	525.2	675.8	805.0	873.0	888.0	868.0	796.7	672.7	511.3	338.9	129.5	9.4	0.0	0.0	0.0	0.0	888.0	9.4	506.4
07/08/10	0.0	0.0	0.0	0.0	0.0	14.9	126.4	333.1	515.2	654.2	794.8	867.0	891.0	870.0	792.9	675.6	481.2	87.8	50.4	8.4	0.0	0.0	0.0	0.0	891.0	8.4	477.5
07/09/10	0.0	0.0	0.0	0.0	0.0	4.3	78.1	283.2	552.4	619.0	782.2	874.0	880.0	684.6	798.3	467.4	183.5	84.4	51.3	7.0	0.0	0.0	0.0	0.0	880.0	4.3	423.3
07/10/10	0.0	0.0	0.0	0.0	0.0	10.7	55.4	236.2	440.7	587.9	678.1	836.0	292.6	458.5	164.4	37.0	27.7	30.5	57.0	27.7	0.0	0.0	0.0	0.0	836.0	10.7	262.7
07/11/10	0.0	0.0	0.0	0.0	0.0	7.0	77.2	251.4	451.4	678.6	788.1	854.0	874.0	846.0	775.9	652.0	493.4	242.6	106.0	7.1	0.0	0.0	0.0	0.0	874.0	7.0	473.6
07/12/10	0.0	0.0	0.0	0.0	0.0	6.8	47.1	192.4	510.4	666.0	780.6	853.0	875.0	848.0	777.1	652.9	493.6	316.6	107.4	6.6	0.0	0.0	0.0	0.0	875.0	6.6	475.6
07/13/10	0.0	0.0	0.0	0.0	0.0	12.9	127.7	327.0	503.4	659.9	780.5	859.0	782.6	859.0	780.1	657.8	500.8	304.1	141.4	14.6	0.0	0.0	0.0	0.0	859.0	12.9	487.4
07/14/10	0.0	0.0	0.0	0.0	0.0	4.5	49.1	91.8	431.6	455.6	383.3	663.5	849.0	646.9	45.0	65.3	139.1	172.6	46.9	6.4	0.0	0.0	0.0	0.0	849.0	4.5	270.0
07/15/10	0.0	0.0	0.0	0.0	0.0	5.0	54.8	257.8	501.3	675.8	761.8	840.0	871.0	848.0	790.8	667.5	481.3	343.8	144.6	20.4	0.0	0.0	0.0	0.0	871.0	5.0	484.3
07/16/10	0.0	0.0	0.0	0.0	0.0	8.5	33.2	131.8	259.9	340.3	347.5	324.6	419.0	701.1	645.8	633.5	336.5	295.8	71.8	8.7	0.0	0.0	0.0	0.0	701.1	8.5	303.9
07/17/10	0.0	0.0	0.0	0.0	0.0	7.4	98.0	211.5	431.9	615.6	641.4	840.0	861.0	833.0	765.1	644.1	487.5	343.9	116.2	15.5	0.0	0.0	0.0	0.0	861.0	7.4	460.8
07/18/10	0.0	0.0	0.0	0.0	0.0	2.8	33.9	277.1	496.4	643.9	764.4	840.0	860.0	832.0	760.3	638.2	488.0	336.4	176.4	27.3	0.0	0.0	0.0	0.0	860.0	2.8	478.5
07/19/10	0.0	0.0	0.0	0.0	0.0	4.9	61.0	177.3	501.9	639.0	795.8	779.9	857.0	839.0	767.3	643.0	487.9	338.4	139.9	10.7	0.0	0.0	0.0	0.0	857.0	4.9	469.5
07/20/10	0.0	0.0	0.0	0.0	0.0	4.8	115.8	307.7	488.7	648.2	766.2	839.0	865.0	838.0	771.6	628.2	488.7	318.7	89.3	11.6	0.0	0.0	0.0	0.0	865.0	4.8	478.8
07/21/10	0.0	0.0	0.0	0.0	0.0	9.3	92.5	309.8	305.7	467.1	731.4	836.0	706.0	570.1	687.1	562.6	303.6	160.9	53.2	10.3	0.0	0.0	0.0	0.0	836.0	9.3	387.0
07/22/10	0.0	0.0	0.0	0.0	0.0	3.3	41.6	212.2	231.5	361.0	709.0	556.0	532.1	707.6	449.0	236.2	178.1	116.4	13.5	1.5	0.0	0.0	0.0	0.0	709.0	1.5	289.9
07/23/10	0.0	0.0	0.0	0.0	0.0	4.6	54.6	223.9	516.9	586.8	791.6	711.9	692.8	791.0	772.8	492.8	453.4	335.9	118.0	4.6	0.0	0.0	0.0	0.0	791.6	4.6	436.8
07/24/10	0.0	0.0	0.0	0.0	0.0	5.3	107.8	280.6	312.0	575.8	613.9	405.5	677.0	608.2	855.0	379.9	108.2	17.4	8.1	5.8	0.0	0.0	0.0	0.0	855.0	5.3	330.7
07/25/10	0.0	0.0	0.0	0.0	0.0	5.2	122.2	298.6	478.8	669.2	716.7	733.3	442.8	394.7	301.4	464.8	370.3	63.2	37.2	4.7	0.0	0.0	0.0	0.0	733.3	4.7	340.2
07/26/10	0.0	0.0	0.0	0.0	0.0	4.8	53.3	100.3	234.7	315.3	466.1	384.3	503.6	582.2	634.2	677.3	414.6	167.5	80.6	6.2	0.0	0.0	0.0	0.0	677.3	4.8	308.3
07/27/10	0.0	0.0	0.0	0.0	0.0	1.8	43.4	159.9	415.7	587.8	514.9	689.4	730.4	364.9	781.7	174.1	130.3	119.9	53.7	5.2	0.0	0.0	0.0	0.0	781.7	1.8	318.2
07/28/10	0.0	0.0	0.0	0.0	0.0	3.5	90.8	296.3	460.0	684.9	664.0	423.6	371.9	540.3	561.6	509.7	43.8	4.5	4.7	6.5	0.0	0.0	0.0	0.0	684.9	3.5	311.1
07/29/10	0.0	0.0	0.0	0.0	0.0	5.6	68.3	231.5	267.6	378.8	740.3	901.0	618.9	720.9	643.0	417.9	75.7	51.4	23.2	2.2	0.0	0.0	0.0	0.0	901.0	2.2	343.1
07/30/10	0.0	0.0	0.0	0.0	0.0	23.4	99.8	191.5	505.1	427.2	563.7	748.3	647.6	841.0	677.5	466.1	148.5	26.8	13.5	1.3	0.0	0.0	0.0	0.0	841.0	1.3	358.7
07/31/10	0.0	0.0	0.0	0.0	0.0	1.7	10.3	37.1	96.2	166.0	157.9	404.7	718.9	763.6	372.7	86.9	36.9	31.6	23.3	2.9	0.0	0.0	0.0	0.0	763.6	1.7	194.0
Hourly Averages	0.0	0.0	0.0	0.0	0.0	9.6	93.9	253.1	439.9	578.5	691.0	750.3	745.8	727.9	663.5	510.2	346.1	206.3	78.2	9.2	0.0	0.0	0.0	0.0			

Maximum Hourly Radiation: 921.0 **Minimum Hourly Radiation:** 1.3 **Average Monthly Radiation:** 406.9

Maximum 24-Hour Mean: 519.9 **Minimum 24-Hour Mean:** 194.0

Total Number of Observations: 744 **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

AUGUST 2010

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
08/01/10	0.0	0.0	0.0	0.0	0.0	2.0	32.4	67.2	136.1	310.3	611.3	505.8	481.6	722.8	689.6	613.9	474.1	226.9	60.2	3.7	0.0	0.0	0.0	0.0	722.8	2.0	329.2
08/02/10	0.0	0.0	0.0	0.0	0.0	4.7	113.4	288.1	454.5	498.7	705.9	762.8	872.0	831.0	723.1	625.7	479.0	260.9	89.5	2.8	0.0	0.0	0.0	0.0	872.0	2.8	447.5
08/03/10	0.0	0.0	0.0	0.0	0.0	3.5	104.2	290.9	469.1	612.1	773.7	848.0	875.0	852.0	769.9	620.4	475.9	294.0	89.7	3.2	0.0	0.0	0.0	0.0	875.0	3.2	472.1
08/04/10	0.0	0.0	0.0	0.0	0.0	3.4	112.1	292.8	479.9	643.2	766.2	786.4	903.0	870.0	776.9	638.5	479.4	298.5	89.3	3.1	0.0	0.0	0.0	0.0	903.0	3.1	476.2
08/05/10	0.0	0.0	0.0	0.0	0.0	3.0	109.1	289.4	475.2	636.1	760.9	841.0	868.0	857.0	747.5	641.5	478.6	294.5	87.1	3.6	0.0	0.0	0.0	0.0	868.0	3.0	472.8
08/06/10	0.0	0.0	0.0	0.0	0.0	2.8	105.6	288.5	350.9	615.9	613.4	811.0	653.4	819.0	740.8	372.6	394.3	199.5	21.0	2.9	0.0	0.0	0.0	0.0	819.0	2.8	399.4
08/07/10	0.0	0.0	0.0	0.0	0.0	2.1	31.0	82.2	156.8	319.7	412.0	598.4	915.0	852.0	789.3	604.8	407.8	166.8	87.3	3.8	0.0	0.0	0.0	0.0	915.0	2.1	361.9
08/08/10	0.0	0.0	0.0	0.0	0.0	0.4	82.1	299.0	483.0	537.5	775.3	577.9	790.9	770.6	661.8	261.0	500.8	259.0	94.7	3.5	0.0	0.0	0.0	0.0	790.9	0.4	406.5
08/09/10	0.0	0.0	0.0	0.0	0.0	1.9	35.4	196.8	461.5	623.4	761.7	846.0	697.8	541.5	585.5	548.7	390.5	278.2	76.0	2.6	0.0	0.0	0.0	0.0	846.0	1.9	403.2
08/10/10	0.0	0.0	0.0	0.0	0.0	2.3	99.7	281.4	467.4	633.4	757.7	839.0	885.0	831.0	705.9	636.6	461.6	274.2	69.6	1.9	0.0	0.0	0.0	0.0	885.0	1.9	463.1
08/11/10	0.0	0.0	0.0	0.0	0.0	2.6	101.9	254.4	404.1	571.0	748.6	830.0	853.0	841.0	750.0	617.2	454.2	268.9	68.3	2.1	0.0	0.0	0.0	0.0	853.0	2.1	451.1
08/12/10	0.0	0.0	0.0	0.0	0.0	2.0	92.8	273.9	460.5	622.1	748.9	827.0	853.0	820.0	742.9	613.1	447.5	265.9	65.9	2.0	0.0	0.0	0.0	0.0	853.0	2.0	455.8
08/13/10	0.0	0.0	0.0	0.0	0.0	2.1	57.4	266.6	470.4	625.0	753.2	831.0	857.0	826.0	747.3	617.1	450.0	263.7	63.3	1.8	0.0	0.0	0.0	0.0	857.0	1.8	455.5
08/14/10	0.0	0.0	0.0	0.0	0.0	2.3	104.8	301.6	458.1	620.7	738.4	833.0	805.0	810.0	741.7	617.1	427.8	251.0	62.5	1.2	0.0	0.0	0.0	0.0	833.0	1.2	451.7
08/15/10	0.0	0.0	0.0	0.0	0.0	0.9	39.8	216.8	314.9	355.7	669.8	822.0	842.0	811.0	733.3	616.2	470.6	277.7	147.1	9.4	0.0	0.0	0.0	0.0	842.0	0.9	421.8
08/16/10	0.0	0.0	0.0	0.0	0.0	0.8	51.3	122.3	322.4	616.9	560.5	689.4	835.0	880.0	648.6	282.7	400.2	241.3	54.2	0.5	0.0	0.0	0.0	0.0	880.0	0.5	380.4
08/17/10	0.0	0.0	0.0	0.0	0.0	1.3	37.5	248.4	451.7	615.2	620.4	701.6	393.0	674.2	769.4	533.3	121.3	12.6	0.7	0.1	0.0	0.0	0.0	0.0	769.4	0.1	345.4
08/18/10	0.0	0.0	0.0	0.0	0.0	1.6	86.0	264.0	452.0	616.6	734.3	809.0	845.0	816.0	737.0	602.7	437.3	253.0	53.9	1.1	0.0	0.0	0.0	0.0	845.0	1.1	447.3
08/19/10	0.0	0.0	0.0	0.0	0.0	1.2	79.4	262.8	451.4	617.0	736.5	832.0	858.0	819.0	738.2	596.8	430.1	244.5	52.5	1.0	0.0	0.0	0.0	0.0	858.0	1.0	448.0
08/20/10	0.0	0.0	0.0	0.0	0.0	1.2	77.6	261.0	446.3	612.3	744.6	826.0	853.0	818.0	733.0	601.0	435.1	247.9	51.2	0.9	0.0	0.0	0.0	0.0	853.0	0.9	447.3
08/21/10	0.0	0.0	0.0	0.0	0.0	0.9	45.4	251.7	438.7	608.5	735.4	694.5	781.2	804.0	621.6	267.8	358.6	79.1	16.8	0.5	0.0	0.0	0.0	0.0	804.0	0.5	380.3
08/22/10	0.0	0.0	0.0	0.0	0.0	0.9	36.8	223.0	419.6	604.9	731.2	812.0	716.4	827.0	640.7	567.3	427.5	236.3	59.0	0.9	0.0	0.0	0.0	0.0	827.0	0.9	420.2
08/23/10	0.0	0.0	0.0	0.0	0.0	1.0	75.8	260.9	445.3	607.5	695.6	760.0	824.0	816.0	736.1	604.0	431.2	246.3	49.6	0.8	0.0	0.0	0.0	0.0	824.0	0.8	436.9
08/24/10	0.0	0.0	0.0	0.0	0.0	0.8	80.4	276.4	452.5	609.8	742.0	825.0	821.0	809.0	605.3	101.2	31.7	39.6	15.6	0.1	0.0	0.0	0.0	0.0	825.0	0.1	360.7
08/25/10	0.0	0.0	0.0	0.0	0.0	0.6	54.8	107.0	243.9	328.7	447.3	791.8	838.0	796.6	718.8	582.1	229.1	203.7	30.0	0.3	0.0	0.0	0.0	0.0	838.0	0.3	358.2
08/26/10	0.0	0.0	0.0	0.0	0.0	0.7	65.7	246.9	331.7	384.5	439.7	579.9	383.7	650.9	541.2	555.9	332.6	198.0	25.7	0.1	0.0	0.0	0.0	0.0	650.9	0.1	315.8
08/27/10	0.0	0.0	0.0	0.0	0.0	0.1	15.1	173.5	348.8	297.8	579.6	639.4	722.3	759.5	636.9	409.1	197.0	86.3	22.9	0.1	0.0	0.0	0.0	0.0	759.5	0.1	325.9
08/28/10	0.0	0.0	0.0	0.0	0.0	0.5	63.3	235.9	382.8	480.9	666.7	684.9	553.6	439.3	571.5	408.5	296.5	139.9	5.5	0.1	0.0	0.0	0.0	0.0	684.9	0.1	328.7
08/29/10	0.0	0.0	0.0	0.0	0.0	0.4	14.0	236.3	440.3	652.1	642.7	743.7	419.6	260.3	536.1	276.7	291.2	203.9	60.1	0.2	0.0	0.0	0.0	0.0	743.7	0.2	318.5
08/30/10	0.0	0.0	0.0	0.0	0.0	0.4	17.6	115.8	153.2	274.4	615.5	798.7	758.2	656.3	321.5	437.3	383.3	223.1	33.0	0.2	0.0	0.0	0.0	0.0	798.7	0.2	319.2
08/31/10	0.0	0.0	0.0	0.0	0.0	0.1	9.8	71.6	344.0	486.5	552.9	811.0	649.7	790.7	693.5	478.6	412.3	214.1	31.1	0.1	0.0	0.0	0.0	0.0	811.0	0.1	369.7
Hourly Averages	0.0	0.0	0.0	0.0	0.0	1.6	65.6	227.3	392.5	536.7	672.3	759.9	754.9	763.6	682.4	514.5	387.3	217.7	55.9	1.8	0.0	0.0	0.0	0.0			

Maximum Hourly Radiation: 915.0 **Minimum Hourly Radiation:** 0.1 **Average Monthly Radiation:** 402.3

Maximum 24-Hour Mean: 476.2 **Minimum 24-Hour Mean:** 315.8

Total Number of Observations: 744 **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

SEPTEMBER 2010

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
09/01/10	0.0	0.0	0.0	0.0	0.0	0.5	68.7	255.2	446.3	613.8	745.4	824.0	849.0	811.0	725.2	587.3	411.9	217.0	30.8	0.0	0.0	0.0	0.0	0.0	849.0	0.5	470.4
09/02/10	0.0	0.0	0.0	0.0	0.0	0.5	68.6	258.6	454.6	624.0	751.5	827.0	849.0	810.0	721.1	578.9	402.2	209.4	28.8	0.0	0.0	0.0	0.0	0.0	849.0	0.5	470.3
09/03/10	0.0	0.0	0.0	0.0	0.0	0.4	58.1	264.4	446.1	613.3	725.2	804.0	841.0	776.5	701.0	597.1	202.9	106.4	24.7	0.0	0.0	0.0	0.0	0.0	841.0	0.4	440.1
09/04/10	0.0	0.0	0.0	0.0	0.0	0.3	58.8	236.9	425.6	594.2	723.6	805.0	828.0	798.0	722.2	583.1	398.1	198.7	23.9	0.0	0.0	0.0	0.0	0.0	828.0	0.3	456.9
09/05/10	0.0	0.0	0.0	0.0	0.0	0.3	59.8	242.1	432.2	601.7	731.7	809.0	831.0	686.0	689.5	564.0	387.3	194.7	22.2	0.0	0.0	0.0	0.0	0.0	831.0	0.3	446.5
09/06/10	0.0	0.0	0.0	0.0	0.0	0.3	64.0	235.2	397.9	592.0	665.8	805.0	790.8	856.0	336.2	101.6	223.2	162.3	14.6	0.0	0.0	0.0	0.0	0.0	856.0	0.3	374.6
09/07/10	0.0	0.0	0.0	0.0	0.0	0.2	51.9	239.1	419.2	587.2	695.9	727.5	834.0	752.6	685.2	508.5	372.8	63.1	11.6	0.0	0.0	0.0	0.0	0.0	834.0	0.2	424.9
09/08/10	0.0	0.0	0.0	0.0	0.0	0.2	22.3	168.7	263.3	300.7	564.9	722.9	651.5	354.0	529.2	544.7	342.1	178.4	18.1	0.0	0.0	0.0	0.0	0.0	722.9	0.2	332.9
09/09/10	0.0	0.0	0.0	0.0	0.0	0.2	46.4	238.3	436.5	596.5	703.1	720.1	763.5	724.0	589.5	554.5	378.1	179.8	15.8	0.0	0.0	0.0	0.0	0.0	763.5	0.2	424.7
09/10/10	0.0	0.0	0.0	0.0	0.0	0.3	62.6	257.5	457.2	631.5	763.8	839.0	859.0	816.0	721.0	575.7	391.9	191.4	13.8	0.0	0.0	0.0	0.0	0.0	859.0	0.3	470.0
09/11/10	0.0	0.0	0.0	0.0	0.0	0.2	60.8	257.0	452.1	623.7	753.1	826.0	722.6	740.4	753.2	504.6	248.6	75.8	7.3	0.0	0.0	0.0	0.0	0.0	826.0	0.2	430.4
09/12/10	0.0	0.0	0.0	0.0	0.0	0.2	15.6	214.1	462.4	601.2	730.7	806.0	854.0	791.3	551.8	612.2	411.5	152.8	12.4	0.0	0.0	0.0	0.0	0.0	854.0	0.2	444.0
09/13/10	0.0	0.0	0.0	0.0	0.0	0.1	43.7	240.1	430.8	596.2	722.1	802.0	828.0	792.8	619.0	532.2	354.2	165.0	6.8	0.0	0.0	0.0	0.0	0.0	828.0	0.1	438.1
09/14/10	0.0	0.0	0.0	0.0	0.0	0.1	56.8	231.5	420.0	586.6	716.3	786.0	807.0	765.8	675.0	530.9	337.2	148.1	6.2	0.0	0.0	0.0	0.0	0.0	807.0	0.1	433.4
09/15/10	0.0	0.0	0.0	0.0	0.0	0.1	47.9	228.4	419.9	588.2	716.1	793.6	825.0	762.2	674.3	529.4	350.2	154.3	5.6	0.0	0.0	0.0	0.0	0.0	825.0	0.1	435.4
09/16/10	0.0	0.0	0.0	0.0	0.0	0.1	49.1	232.7	424.2	592.5	718.1	797.5	819.0	773.6	677.5	529.4	349.6	153.5	5.3	0.0	0.0	0.0	0.0	0.0	819.0	0.1	437.3
09/17/10	0.0	0.0	0.0	0.0	0.0	0.1	48.4	236.6	430.0	598.1	726.1	801.0	818.0	779.6	685.5	539.3	355.5	152.6	5.0	0.0	0.0	0.0	0.0	0.0	818.0	0.1	441.1
09/18/10	0.0	0.0	0.0	0.0	0.0	0.1	45.2	230.0	421.9	588.5	715.9	793.0	806.0	763.8	667.0	518.4	338.0	138.1	4.9	0.0	0.0	0.0	0.0	0.0	806.0	0.1	430.8
09/19/10	0.0	0.0	0.0	0.0	0.0	0.1	41.7	219.1	406.6	571.8	697.8	769.9	792.6	784.0	618.0	384.3	340.9	128.2	4.3	0.0	0.0	0.0	0.0	0.0	792.6	0.1	411.4
09/20/10	0.0	0.0	0.0	0.0	0.0	0.0	40.2	237.3	411.6	472.2	291.2	313.8	627.2	692.7	644.6	497.9	320.4	121.1	4.5	0.0	0.0	0.0	0.0	0.0	692.7	0.0	333.9
09/21/10	0.0	0.0	0.0	0.0	0.0	0.0	44.9	148.8	371.9	535.1	679.7	763.5	716.4	722.7	391.0	437.9	155.0	120.6	2.3	0.0	0.0	0.0	0.0	0.0	763.5	0.0	363.6
09/22/10	0.0	0.0	0.0	0.0	0.0	0.1	8.0	47.0	49.2	141.9	224.7	475.6	321.0	400.2	238.2	276.0	86.4	53.9	6.2	0.0	0.0	0.0	0.0	0.0	475.6	0.1	166.3
09/23/10	0.0	0.0	0.0	0.0	0.0	0.0	40.9	222.8	415.0	587.0	721.4	792.6	793.1	749.4	653.9	504.3	320.2	111.4	3.3	0.0	0.0	0.0	0.0	0.0	793.1	0.0	422.5
09/24/10	0.0	0.0	0.0	0.0	0.0	0.0	36.5	215.8	405.2	571.0	696.6	767.6	781.9	744.7	641.9	494.4	312.6	104.2	3.1	0.0	0.0	0.0	0.0	0.0	781.9	0.0	412.5
09/25/10	0.0	0.0	0.0	0.0	0.0	0.0	35.4	214.7	406.3	571.5	693.3	763.4	777.2	735.5	635.4	466.2	246.5	96.6	2.7	0.0	0.0	0.0	0.0	0.0	777.2	0.0	403.2
09/26/10	0.0	0.0	0.0	0.0	0.0	0.0	32.6	202.6	390.9	559.7	684.3	760.4	773.7	730.5	629.0	478.0	295.5	92.8	2.7	0.0	0.0	0.0	0.0	0.0	773.7	0.0	402.3
09/27/10	0.0	0.0	0.0	0.0	0.0	0.0	30.5	203.6	390.5	557.7	683.5	758.2	768.8	722.6	631.7	465.7	300.6	48.5	3.1	0.0	0.0	0.0	0.0	0.0	768.8	0.0	397.5
09/28/10	0.0	0.0	0.0	0.0	0.0	0.0	37.0	185.4	406.2	560.1	679.1	768.8	706.8	730.8	640.0	438.7	226.2	60.2	1.8	0.0	0.0	0.0	0.0	0.0	768.8	0.0	388.7
09/29/10	0.0	0.0	0.0	0.0	0.0	0.0	30.3	205.1	393.3	560.1	684.1	753.9	764.8	714.9	614.4	465.3	283.3	79.8	1.3	0.0	0.0	0.0	0.0	0.0	764.8	0.0	396.5
09/30/10	0.0	0.0	0.0	0.0	0.0	0.0	27.8	198.0	385.1	550.1	674.9	748.7	765.7	716.8	618.3	435.6	280.2	80.2	1.2	0.0	0.0	0.0	0.0	0.0	765.7	0.0	391.6
Hourly Averages	0.0	0.0	0.0	0.0	0.0	0.1	44.5	218.9	402.4	558.9	676.0	757.5	772.2	733.3	622.7	494.5	314.1	131.3	9.8	0.0	0.0	0.0	0.0	0.0			

Maximum Hourly Radiation: 859.0 **Minimum Hourly Radiation:** 0.0 **Average Monthly Radiation:** 409.7

Maximum 24-Hour Mean: 470.4 **Minimum 24-Hour Mean:** 166.3

Total Number of Observations: 720 **Possible Number of Observations:** 720 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

JULY 2010

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
07/01/10	0.020	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.033	0.015	0.031	0.023	0.038	0.051	0.041	0.056	0.051	0.048	0.038	0.015	0.018	0.018	0.023	0.010	0.634
07/02/10	0.010	0.005	0.005	0.013	0.015	0.023	INV	INV	INV	0.023	0.043	0.041	0.051	0.048	0.043	0.046	0.059	0.064	0.069	0.059	0.043	0.036	0.030	0.028	0.754
07/03/10	0.031	0.033	0.038	0.038	0.028	0.028	0.031	0.044	0.031	0.033	0.041	0.046	0.054	0.059	0.059	0.071	0.069	0.061	0.056	0.051	0.046	0.035	0.028	0.025	1.036
07/04/10	0.031	0.033	0.031	0.026	0.028	0.038	0.031	0.015	0.039	0.046	0.023	0.036	0.041	0.046	0.048	0.056	0.054	0.061	0.064	0.043	0.033	0.033	0.033	0.033	0.922
07/05/10	0.033	0.028	0.026	0.023	0.023	0.020	0.018	0.038	0.018	0.013	0.026	0.043	0.041	0.054	0.054	0.054	0.036	0.033	0.048	0.026	0.025	0.015	0.015	0.013	0.723
07/06/10	0.010	0.013	0.010	0.010	0.008	0.008	0.003	0.013	0.000	0.003	0.008	0.013	0.018	0.041	0.041	0.048	0.043	0.026	0.041	0.026	0.018	0.012	0.010	0.008	0.431
07/07/10	0.008	0.005	0.003	0.005	0.003	0.010	INV	INV	INV	INV	0.125	0.015	0.005	0.000	0.005	0.000	0.005	0.008	0.010	0.015	0.013	0.012	0.012	0.010	0.269
07/08/10	0.010	0.010	0.010	0.010	0.013	0.013	0.013	0.024	0.031	0.041	0.043	0.046	0.064	0.046	0.059	0.056	0.064	0.043	0.033	0.036	0.026	0.023	0.020	0.018	0.752
07/09/10	0.015	0.015	0.015	0.015	0.013	0.015	0.023	INV	INV	0.158	0.100	0.041	0.010	0.000	0.000	0.003	0.008	0.005	0.000	0.000	0.003	0.003	0.003	0.003	0.448
07/10/10	0.002	0.003	0.001	0.003	0.003	0.002	0.008	0.001	0.001	0.000	0.003	0.000	0.000	0.003	0.005	0.019	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.062
07/11/10	0.002	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.001	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.008	0.015	0.010	0.009	0.007	0.005	0.007	0.081
07/12/10	0.005	0.005	0.006	0.005	0.005	0.005	0.010	0.005	0.009	0.008	0.026	0.041	0.038	0.036	0.031	0.026	0.026	0.028	0.023	0.020	0.020	0.015	0.013	0.015	0.421
07/13/10	0.015	0.013	0.015	0.015	0.012	0.013	0.010	0.168	0.135	0.097	0.079	0.066	0.046	0.003	0.003	0.000	0.003	0.005	0.008	0.005	0.005	0.003	0.003	0.005	0.727
07/14/10	0.000	0.004	0.000	0.003	0.000	0.000	0.000	0.005	0.001	0.000	0.000	0.000	0.000	0.003	0.023	0.014	0.008	0.003	0.003	0.003	0.002	0.003	0.003	0.005	0.083
07/15/10	0.005	0.005	0.002	0.005	0.003	0.003	0.010	0.004	0.003	0.015	0.031	0.031	0.031	0.036	0.026	0.031	0.051	0.123	0.102	0.084	0.071	0.061	0.046	0.041	0.820
07/16/10	0.035	0.028	0.028	0.028	INV	INV	0.174	0.023	0.021	0.028	0.033	0.026	0.013	0.010	0.036	0.018	0.031	0.051	0.033	0.023	0.036	0.067	0.209	0.102	1.053
07/17/10	0.038	0.013	0.005	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.000	0.003	0.005	0.005	0.018	0.023	0.028	0.028	0.038	0.023	0.018	0.026	0.015	0.015	0.305
07/18/10	0.013	0.010	0.013	0.020	0.000	0.005	0.005	0.010	0.008	0.010	0.013	0.015	0.026	0.028	0.023	0.028	0.028	0.046	0.038	0.023	0.020	0.023	0.018	0.015	0.438
07/19/10	0.015	0.013	0.013	0.010	0.010	0.008	0.005	INV	INV	INV	0.015	0.010	0.023	0.028	0.031	0.036	0.038	0.041	0.041	0.038	0.036	0.026	0.018	0.018	0.473
07/20/10	0.020	0.020	0.015	0.003	0.008	0.013	0.008	0.005	0.009	0.008	0.010	0.020	0.023	0.028	0.036	0.036	0.041	0.051	0.043	0.033	0.026	0.025	0.021	0.023	0.525
07/21/10	0.020	0.012	0.015	0.066	0.028	0.007	0.008	0.014	0.013	0.003	0.010	0.018	0.028	0.026	0.028	0.036	0.033	0.026	0.028	0.023	0.018	0.015	0.013	0.015	0.503
07/22/10	0.097	0.133	0.158	0.123	0.082	0.013	0.003	0.000	0.000	0.003	0.000	0.001	0.005	0.008	0.015	0.018	0.013	0.018	0.009	0.005	0.008	0.008	0.010	0.008	0.738
07/23/10	0.005	0.005	0.043	0.003	0.003	0.005	0.003	0.005	0.003	0.009	0.005	0.018	0.018	0.028	0.028	0.023	0.023	0.023	0.033	0.025	0.020	0.015	0.010	0.008	0.361
07/24/10	0.010	0.008	0.005	0.005	0.008	0.003	0.003	0.003	0.008	0.003	0.005	0.015	0.010	0.015	0.015	0.031	0.015	0.020	0.003	0.000	0.000	0.000	0.005	0.008	0.198
07/25/10	0.008	0.005	0.005	0.003	0.005	0.003	0.003	0.003	0.003	0.006	0.005	0.010	0.015	0.020	0.026	0.018	0.026	0.023	0.015	0.015	0.010	0.008	0.005	0.008	0.248
07/26/10	0.008	0.005	0.008	0.005	0.005	0.003	0.005	INV	INV	0.201	0.121	INV	INV	INV	0.087	0.005	0.026	0.026	0.020	0.022	0.014	0.010	0.010	0.010	0.591
07/27/10	0.005	0.008	0.008	0.005	0.003	0.005	0.002	0.003	0.002	0.001	0.000	0.000	0.000	0.015	0.018	0.033	0.026	0.015	0.018	0.017	0.010	0.010	0.010	0.005	0.219
07/28/10	0.008	0.005	0.005	0.003	0.003	0.000	0.003	0.000	0.001	0.006	0.010	0.015	0.015	0.015	0.018	0.023	INV	INV	0.020	0.059	0.036	0.015	0.010	0.005	0.275
07/29/10	0.003	0.003	0.003	0.003	0.000	0.000	0.000	0.000	0.002	0.000	0.001	0.000	0.003	0.000	0.010	0.020	0.031	0.024	0.020	0.013	0.008	0.008	0.003	0.003	0.158
07/30/10	0.003	0.005	0.005	0.003	0.000	0.003	0.003	0.005	0.005	0.005	0.002	0.002	0.000	0.003	0.003	0.010	0.015	0.015	0.009	0.005	0.008	0.005	0.003	0.005	0.122
07/31/10	0.005	0.005	0.005	0.003	0.003	0.005	0.003	0.000	0.000	0.003	0.003	0.000	0.000	0.001	0.005	0.009	0.007	0.005	0.000	0.000	0.000	0.000	0.000	0.003	0.065

Total Evaporation for the month =14.435

Total Number of Observations: 723 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	0.005	0.018	0.005	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.003	0.005	0.015	0.020	0.026	0.026	0.028	0.022	0.020	0.008	0.005	0.005	0.218
08/02/10	0.005	0.003	0.003	0.008	0.003	0.000	0.000	0.003	0.003	0.006	0.008	0.013	0.015	0.018	0.031	0.054	0.041	0.041	0.028	0.020	0.012	0.010	0.007	0.008	0.340
08/03/10	0.005	0.005	0.003	0.003	0.005	0.003	0.003	0.000	0.001	0.003	0.005	0.013	0.018	0.026	0.033	0.033	0.036	0.033	0.033	0.023	0.018	0.012	0.013	0.008	0.335
08/04/10	0.005	0.008	0.005	0.008	0.003	0.005	0.005	0.003	0.001	0.003	0.028	0.015	0.020	0.026	0.031	0.033	0.038	0.038	0.046	0.023	0.015	0.010	0.007	0.010	0.386
08/05/10	0.008	0.008	0.023	0.003	0.003	0.003	0.000	0.003	0.004	0.005	0.008	0.013	0.018	0.026	0.048	0.043	0.043	0.036	0.036	0.020	0.020	0.025	0.017	0.018	0.431
08/06/10	0.013	0.010	0.015	0.008	0.005	0.005	0.008	0.000	0.003	0.006	0.008	0.013	0.018	0.023	0.028	0.028	0.031	0.028	0.036	0.015	0.010	0.013	0.010	0.015	0.349
08/07/10	0.005	0.008	0.000	0.023	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.015	0.015	0.020	0.028	0.031	0.020	0.018	0.010	0.008	0.005	0.000	0.215
08/08/10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.013	0.015	0.020	0.031	0.036	0.028	0.028	0.028	0.023	0.012	0.008	0.005	0.003	0.253
08/09/10	0.005	0.005	0.008	0.003	0.003	0.000	0.003	INV	INV	INV	INV	INV	INV	0.008	0.026	0.033	INV	0.010	INV	0.010	0.004	0.018	0.028	INV	0.164
08/10/10	INV	0.023	0.000	0.000	0.003	0.000	0.000	0.003	0.004	0.006	0.008	0.010	0.020	0.026	0.031	0.031	0.031	0.051	0.046	0.031	0.020	0.012	0.013	0.010	0.379
08/11/10	0.013	0.010	0.013	0.010	0.008	0.008	0.008	0.005	0.006	0.010	0.018	0.018	0.028	0.031	0.033	0.041	0.038	0.036	0.041	0.026	0.023	0.012	0.012	0.010	0.458
08/12/10	0.010	0.013	0.018	0.010	0.010	0.008	0.008	0.003	0.009	0.010	0.018	0.018	0.026	0.033	0.041	0.043	0.038	0.046	0.041	0.031	0.018	0.018	0.012	0.023	0.505
08/13/10	0.010	0.010	0.008	0.008	0.008	0.008	0.005	0.003	0.009	0.013	0.018	0.018	0.026	0.033	0.038	0.036	0.038	0.043	0.036	0.026	0.025	0.020	0.020	0.020	0.479
08/14/10	0.025	0.015	0.020	0.013	0.010	0.008	0.005	0.015	0.006	0.008	0.010	0.020	0.028	0.028	0.036	0.043	0.046	0.036	0.036	0.026	0.026	0.023	0.018	0.010	0.511
08/15/10	0.008	0.008	0.013	0.008	0.010	0.005	0.013	0.003	0.006	0.013	0.010	0.015	0.026	0.026	0.038	0.054	0.046	0.043	0.041	0.026	0.023	0.023	0.023	0.010	0.491
08/16/10	0.018	0.005	0.013	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.013	0.020	0.020	0.026	0.038	0.026	0.033	0.038	0.025	0.017	0.010	0.010	0.008	0.331
08/17/10	0.005	0.010	0.005	0.008	0.005	0.005	0.005	0.003	0.005	0.008	0.010	0.018	0.026	0.000	0.020	0.038	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.207
08/18/10	0.000	0.000	0.000	0.000	0.008	0.005	0.000	0.003	0.000	0.005	0.008	0.013	0.018	0.023	0.028	0.031	0.036	0.041	0.031	0.025	0.020	0.013	0.010	0.010	0.328
08/19/10	0.018	0.005	0.005	0.005	0.013	0.003	0.005	0.000	0.013	0.005	0.008	0.018	0.026	0.031	0.041	0.041	0.051	0.041	0.031	0.018	0.018	0.015	0.013	0.008	0.432
08/20/10	0.013	0.010	0.018	0.010	0.008	0.015	0.013	0.000	0.005	0.008	0.018	0.023	0.026	INV	INV	0.018	0.036	0.041	0.041	0.031	0.031	0.023	0.033	0.018	0.439
08/21/10	0.016	0.040	0.020	0.013	0.013	0.005	0.008	0.005	0.005	0.011	0.013	0.018	0.018	0.018	0.028	0.033	0.023	0.031	0.028	0.026	0.024	0.000	0.000	0.000	0.396
08/22/10	0.000	0.000	0.003	0.000	0.000	0.000	0.005	0.003	0.003	0.000	0.004	0.008	0.010	0.015	0.020	0.023	0.028	0.020	0.023	0.014	0.012	0.008	0.010	0.008	0.217
08/23/10	0.005	0.008	0.008	0.008	0.005	0.005	0.005	0.003	0.004	0.003	0.010	0.013	0.018	0.020	0.031	0.043	0.038	0.036	0.033	0.026	0.018	0.017	0.010	0.013	0.380
08/24/10	0.010	0.010	0.008	0.008	0.008	0.010	0.010	0.005	0.009	0.013	0.015	0.020	0.020	0.020	0.031	0.000	0.000	0.026	0.022	0.023	0.015	0.023	0.015	0.010	0.331
08/25/10	0.013	0.023	0.010	0.013	0.008	0.008	0.008	0.013	0.008	0.010	0.010	0.014	0.021	0.026	0.031	0.046	0.000	0.033	0.035	0.033	0.018	0.018	0.010	0.013	0.422
08/26/10	0.015	0.013	0.013	0.013	0.010	0.010	0.010	0.005	0.010	0.010	0.015	0.011	0.020	0.015	0.018	0.018	0.026	0.018	0.020	0.015	0.026	0.008	0.008	0.010	0.337
08/27/10	0.008	0.000	0.000	0.003	0.005	0.000	0.000	0.000	0.000	0.003	0.000	0.006	0.010	0.015	0.031	0.028	0.030	0.025	0.020	0.026	0.013	0.008	0.008	0.005	0.244
08/28/10	0.013	0.005	0.005	0.003	0.003	0.005	0.003	0.003	0.003	0.003	0.008	0.011	0.015	0.020	0.018	0.023	0.026	0.020	0.022	0.013	0.015	0.013	0.018	0.005	0.273
08/29/10	0.005	0.005	0.005	0.003	0.005	0.003	0.003	0.003	0.003	0.003	0.008	0.019	0.020	0.000	0.009	0.000	0.008	0.008	0.005	0.010	0.008	0.008	0.005	0.005	0.151
08/30/10	0.005	0.005	0.003	0.005	0.005	0.003	0.003	0.000	0.003	0.000	0.003	0.003	0.016	0.015	0.023	0.020	0.020	0.028	0.030	0.020	0.031	0.015	0.010	0.010	0.276
08/31/10	0.010	0.010	0.013	0.010	0.005	0.005	0.008	0.003	0.005	0.005	0.006	0.010	0.013	0.015	0.020	0.026	0.028	0.026	0.028	0.017	0.010	0.013	0.008	0.005	0.299

Total Evaporation for the month =10.577

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

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	0.005	0.003	0.003	0.005	0.003	0.005	0.005	0.003	0.000	0.006	0.005	0.013	0.023	0.023	0.026	0.038	0.031	0.033	0.028	0.035	0.023	0.015	0.013	0.008	INV
09/02/10	0.005	0.005	0.010	0.008	0.003	0.005	0.023	0.005	0.000	0.003	0.005	0.018	0.018	0.028	0.033	0.038	0.036	0.036	0.033	0.025	0.020	0.018	0.010	0.043	INV
09/03/10	0.013	0.003	0.003	0.003	0.003	0.003	0.005	0.003	0.010	0.013	0.010	0.015	0.023	0.028	0.033	0.026	0.033	0.023	0.026	0.025	0.015	0.015	0.010	0.013	INV
09/04/10	0.008	0.010	0.005	0.010	0.005	0.005	0.005	0.018	0.000	0.005	0.008	0.013	0.015	0.023	0.031	0.031	0.041	0.028	0.026	0.013	0.015	0.008	0.008	0.005	INV
09/05/10	0.005	0.003	0.003	0.003	0.003	0.005	0.003	0.000	0.003	0.039	0.003	0.008	0.026	0.028	0.038	0.048	0.020	0.028	0.020	0.018	0.008	0.005	0.008	0.005	INV
09/06/10	0.008	0.005	0.005	0.005	0.003	0.000	0.023	0.000	0.000	0.000	0.005	0.010	0.020	0.026	0.054	0.018	0.008	0.005	0.010	0.008	0.008	0.003	0.003	0.003	INV
09/07/10	0.003	0.003	0.000	0.003	0.003	0.003	0.000	0.005	0.003	0.003	0.008	0.013	0.018	0.031	0.028	0.031	0.031	0.026	0.041	0.010	0.008	0.005	0.005	0.003	0.284
09/08/10	0.005	0.000	0.003	0.003	0.000	0.005	0.003	0.003	INV	INV	INV	INV	0.156	0.015	0.003	0.018	0.031	0.028	0.024	0.018	0.020	0.013	0.010	0.013	0.371
09/09/10	0.015	0.023	0.008	0.010	0.008	0.008	0.005	0.003	0.003	0.005	0.005	0.013	0.016	0.023	0.023	0.026	0.030	0.035	0.033	0.026	0.023	0.013	0.008	0.008	0.370
09/10/10	0.008	0.002	0.008	0.005	0.007	0.003	0.018	0.003	0.000	0.005	0.005	0.011	0.016	0.026	0.028	0.033	0.035	0.032	0.036	0.010	0.013	0.010	0.008	0.008	0.330
09/11/10	0.008	0.005	0.005	0.005	0.005	0.005	0.008	0.016	0.000	0.000	0.005	0.009	0.023	0.013	0.018	0.026	0.036	0.035	0.028	0.028	0.015	0.013	0.008	0.008	0.322
09/12/10	0.005	0.008	0.005	0.005	0.005	0.020	0.000	0.003	0.000	0.018	0.001	0.008	0.013	0.023	0.051	0.023	0.038	0.041	0.030	0.030	0.018	0.010	0.008	0.005	0.368
09/13/10	0.008	0.005	0.005	0.008	0.003	0.003	0.003	0.005	0.000	0.014	0.005	0.003	0.018	0.026	0.028	0.038	0.033	0.043	0.038	0.022	0.020	0.015	0.018	0.013	0.374
09/14/10	0.008	0.003	0.008	0.005	0.005	0.005	0.018	0.008	0.010	0.006	0.000	0.005	0.015	0.031	0.031	0.041	0.038	0.031	0.036	0.022	0.018	0.015	0.013	0.008	0.380
09/15/10	0.008	0.005	0.005	0.005	0.005	0.005	0.003	0.013	0.003	0.001	0.003	0.008	0.023	0.031	0.036	0.031	0.043	0.026	0.028	0.010	0.010	0.008	0.008	0.008	0.326
09/16/10	0.005	0.008	0.003	0.005	0.003	0.003	0.005	0.003	0.000	0.003	0.008	0.013	0.026	0.031	0.038	0.048	0.028	0.041	0.028	0.020	0.020	0.013	0.008	0.005	0.365
09/17/10	0.008	0.003	0.003	0.005	0.008	0.015	0.003	0.008	0.000	0.000	0.003	0.008	0.023	0.028	0.028	0.028	0.031	0.033	0.033	0.025	0.008	0.008	0.013	0.008	0.330
09/18/10	0.005	0.003	0.005	0.003	0.005	0.005	0.015	0.010	0.000	0.003	0.005	0.031	0.010	0.018	0.031	0.031	0.033	0.054	0.026	0.023	0.018	0.010	0.010	0.008	0.362
09/19/10	0.008	0.010	0.005	0.008	0.005	0.008	0.005	0.013	0.003	0.005	0.003	0.013	0.023	0.023	0.033	0.033	0.051	0.026	0.023	0.020	0.013	0.008	0.028	0.010	0.377
09/20/10	0.008	0.010	0.010	0.015	0.010	0.003	0.005	0.028	0.000	0.003	0.023	0.003	0.005	0.010	0.026	0.028	0.031	0.028	0.020	0.013	0.010	0.005	0.005	0.008	0.307
09/21/10	0.005	0.003	0.005	0.003	0.003	0.003	0.026	0.010	0.003	0.003	0.003	0.003	0.020	0.008	0.033	0.023	0.028	0.020	0.018	0.013	0.008	0.008	0.005	0.003	0.257
09/22/10	0.003	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.054	0.071	INV	INV	0.176	0.015	0.003	0.005	0.005	0.008	0.000	0.204	0.171	0.143	0.861
09/23/10	0.094	0.082	0.054	0.046	0.044	0.041	0.044	0.028	0.046	0.071	0.051	0.041	0.025	0.010	0.008	0.033	0.003	0.001	0.003	0.000	0.000	0.005	0.008	0.000	0.738
09/24/10	INV	INV	0.059	0.013	0.003	0.000	0.237	INV	0.102	0.008	0.001	0.003	0.000	0.010	0.018	0.023	0.023	0.028	0.024	0.023	0.033	0.018	0.018	0.018	0.662
09/25/10	0.015	0.013	0.023	0.013	0.010	0.008	0.018	0.005	0.005	0.005	0.009	0.011	0.013	0.015	0.015	0.020	0.028	0.028	0.024	0.020	0.015	0.015	0.015	0.015	0.358
09/26/10	0.013	0.008	0.018	0.008	0.008	0.005	0.003	0.005	0.003	0.005	0.011	0.019	0.023	0.026	0.031	0.031	0.028	0.025	0.016	0.015	0.010	0.008	0.005	0.008	0.332
09/27/10	0.008	0.005	0.010	0.008	0.010	0.010	0.013	0.003	0.005	0.005	0.009	0.021	0.018	0.015	0.018	0.031	0.026	0.023	0.017	0.012	0.015	0.013	0.013	0.018	0.326
09/28/10	0.008	0.008	0.010	0.010	0.010	0.010	0.013	0.003	0.005	0.003	0.004	0.008	0.010	0.018	0.023	0.028	0.033	0.043	0.040	0.018	0.010	0.008	0.010	0.010	0.343
09/29/10	0.005	0.005	0.005	0.005	0.005	0.005	0.010	0.000	0.005	0.001	0.001	0.010	0.018	0.023	0.023	0.028	0.038	0.041	0.030	0.022	0.013	0.008	0.005	0.020	0.326
09/30/10	0.005	0.003	0.003	0.005	0.005	0.005	0.023	0.000	0.000	0.004	0.003	0.015	0.013	0.028	0.028	0.031	0.046	0.031	0.018	0.014	0.010	0.015	0.015	0.010	0.330

Total Evaporation for the month =9.399

Total Number of Observations: 711 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC1-I

HOURLY PRECIPITATION DATA

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	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
07/02/10	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	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
07/03/10	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
07/04/10	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
07/05/10	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
07/06/10	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
07/07/10	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
07/08/10	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
07/09/10	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
07/10/10	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	0.26	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
07/11/10	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
07/12/10	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
07/13/10	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
07/14/10	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	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
07/15/10	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
07/16/10	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	0.57	0.00	0.00	0.57
07/17/10	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
07/18/10	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	0.01	0.01	0.00	0.00	0.00	0.00	0.02
07/19/10	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
07/20/10	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
07/21/10	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	0.02	0.02
07/22/10	0.21	0.11	0.19	0.08	0.07	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	0.00	0.01	0.00	0.00	0.00	0.00	0.68
07/23/10	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
07/24/10	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	0.03	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.07
07/25/10	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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
07/26/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	INV	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
07/27/10	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.02
07/28/10	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	0.98	0.05	0.02	0.01	0.01	0.00	0.00	0.00	1.07
07/29/10	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
07/30/10	0.00	0.00	0.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.10
07/31/10	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	0.02	0.01	0.02	0.05	0.01	0.02	0.00	0.00	0.15

Total Precipitation for the month = 3.08

Total Number of Observations: 742 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	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
08/02/10	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
08/03/10	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
08/04/10	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
08/05/10	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
08/06/10	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
08/07/10	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.11
08/08/10	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
08/09/10	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
08/10/10	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
08/11/10	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
08/12/10	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
08/13/10	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
08/14/10	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
08/15/10	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
08/16/10	0.00	0.00	0.00	0.00	0.02	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	0.00	0.00	0.00	0.00	0.00	0.00	0.03
08/17/10	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	0.01	0.00	0.00	0.00	0.04	0.14	0.04	0.01	0.00	0.00	0.00	0.24
08/18/10	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
08/19/10	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
08/20/10	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
08/21/10	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	0.31	0.25	0.13	0.69
08/22/10	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
08/23/10	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
08/24/10	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	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
08/25/10	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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
08/26/10	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
08/27/10	0.00	0.02	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
08/28/10	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
08/29/10	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	0.03	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27
08/30/10	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
08/31/10	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

Total Precipitation for the month = 1.46

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

RESOLUTION COPPER - KC1 (EAST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	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
09/02/10	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
09/03/10	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
09/04/10	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
09/05/10	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
09/06/10	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
09/07/10	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
09/08/10	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
09/09/10	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
09/10/10	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
09/11/10	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
09/12/10	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
09/13/10	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
09/14/10	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
09/15/10	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
09/16/10	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
09/17/10	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
09/18/10	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
09/19/10	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
09/20/10	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
09/21/10	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
09/22/10	0.00	0.00	0.04	0.00	0.10	0.05	0.11	0.12	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.70
09/23/10	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
09/24/10	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
09/25/10	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
09/26/10	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
09/27/10	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
09/28/10	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
09/29/10	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
09/30/10	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

Total Precipitation for the month = 0.70

Total Number of Observations: 720 **Possible Number of Observations:** 720 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

JULY 2010

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
07/01/10	4.9	6.0	6.1	6.5	7.6	5.2	7.7	8.7	8.0	7.7	5.7	3.7	3.6	3.1	4.0	4.7	3.7	3.7	3.1	2.9	5.3	5.4	5.4	5.4	8.7	2.9	5.3
07/02/10	6.3	6.5	6.5	6.6	8.6	9.8	8.0	7.6	6.2	5.6	5.0	4.8	4.0	5.3	5.2	3.2	5.0	4.6	4.4	3.4	1.1	4.6	4.8	2.9	9.8	1.1	5.4
07/03/10	2.2	1.1	1.8	1.6	2.1	1.7	1.7	2.8	3.9	4.2	3.7	6.2	7.2	6.6	7.0	7.2	6.1	5.5	4.9	3.6	1.0	0.0	0.5	0.9	7.2	0.0	3.5
07/04/10	1.1	1.8	1.3	1.5	1.7	1.0	1.0	1.4	2.0	2.3	3.3	3.1	3.8	3.7	4.6	4.3	4.3	3.8	3.4	2.9	1.9	2.4	1.3	1.2	4.6	1.0	2.5
07/05/10	1.3	0.9	1.3	1.2	1.1	0.5	0.5	1.5	1.5	2.0	2.6	3.6	4.0	3.9	4.3	4.6	4.5	5.2	4.3	2.8	1.3	0.7	1.8	1.0	5.2	0.5	2.3
07/06/10	0.9	0.8	1.5	1.4	1.5	1.1	1.7	1.2	1.8	1.8	2.4	2.9	3.4	3.8	3.8	4.0	4.3	3.9	3.4	2.9	1.2	2.2	1.1	0.9	4.3	0.8	2.2
07/07/10	1.1	1.5	1.0	0.7	0.9	1.1	1.0	0.9	1.5	1.8	2.2	2.3	3.0	4.8	4.9	4.5	4.3	3.9	3.6	5.0	4.5	3.7	2.8	2.8	5.0	0.7	2.7
07/08/10	2.8	2.8	2.5	2.5	5.1	5.0	4.7	4.1	5.7	3.7	4.9	7.4	5.1	5.6	4.4	4.4	2.6	4.2	5.7	6.5	4.1	3.0	5.2	6.1	7.4	2.5	4.5
07/09/10	4.6	4.8	7.5	6.8	7.2	8.0	7.2	6.6	7.1	6.1	5.3	5.0	5.7	4.1	4.0	3.3	3.3	2.5	1.5	2.1	1.7	2.4	2.4	1.6	8.0	1.5	4.6
07/10/10	3.1	1.3	1.2	2.2	5.1	6.3	5.8	5.8	6.4	4.9	2.9	3.4	3.0	2.9	4.4	9.3	8.0	5.4	6.1	5.2	2.0	4.2	3.0	3.4	9.3	1.2	4.4
07/11/10	5.0	3.9	5.1	6.0	4.7	4.3	4.5	2.7	3.1	2.6	2.8	2.8	3.2	3.6	4.3	4.7	4.3	5.2	7.9	6.2	3.0	1.9	1.2	2.6	7.9	1.2	4.0
07/12/10	2.8	2.0	2.1	1.8	1.4	1.6	1.4	1.7	1.9	2.0	3.3	3.3	3.4	4.3	4.6	5.3	5.4	4.9	4.4	3.8	2.1	1.3	1.5	1.4	5.4	1.3	2.8
07/13/10	1.6	0.9	0.8	0.8	0.7	0.7	0.4	0.8	1.5	2.8	2.7	3.1	3.4	4.4	5.0	5.1	4.5	5.1	4.5	2.8	1.1	1.2	1.4	2.1	5.1	0.4	2.4
07/14/10	1.6	1.7	1.8	0.6	1.3	1.6	0.6	1.0	2.4	2.3	1.6	1.7	2.3	2.6	5.0	6.0	1.9	2.8	6.2	4.5	2.0	1.9	1.8	1.6	6.2	0.6	2.4
07/15/10	1.7	4.4	2.3	0.7	2.0	1.7	3.1	4.2	2.6	4.4	2.3	2.4	2.9	3.4	4.2	3.3	3.3	4.7	7.9	8.7	6.5	3.6	3.2	4.7	8.7	0.7	3.7
07/16/10	3.8	4.7	3.6	2.7	4.1	3.3	4.2	4.4	3.1	2.4	3.1	4.5	2.8	3.0	3.1	2.8	2.9	3.5	5.0	3.3	6.3	12.5	8.5	6.3	12.5	2.4	4.3
07/17/10	2.8	3.1	1.9	3.4	2.6	1.5	2.9	1.7	1.0	1.5	2.7	3.4	3.7	3.6	4.2	4.0	4.5	4.5	4.1	4.1	2.5	3.0	3.0	2.1	4.5	1.0	3.0
07/18/10	4.5	3.8	3.2	2.6	1.2	1.1	1.1	1.0	2.7	2.9	4.1	5.4	4.9	5.4	5.6	5.5	4.3	4.5	3.7	3.3	1.3	1.0	4.5	4.2	5.6	1.0	3.4
07/19/10	2.3	2.2	0.7	1.1	1.1	0.2	0.4	1.7	2.2	3.1	3.9	3.9	5.2	4.8	5.1	5.3	5.3	5.3	5.1	4.2	2.2	0.9	2.7	5.9	5.9	0.2	3.1
07/20/10	6.9	6.6	4.1	5.6	5.7	5.3	2.2	4.2	2.5	2.4	3.0	3.7	4.0	3.7	5.0	4.7	4.9	4.5	3.7	3.5	2.4	0.9	1.1	0.9	6.9	0.9	3.8
07/21/10	0.6	0.3	1.1	1.5	1.6	1.3	0.8	0.8	1.7	4.2	4.8	4.3	3.7	3.1	3.0	2.9	3.5	3.6	3.3	3.0	2.7	3.8	3.7	6.8	6.8	0.3	2.7
07/22/10	5.5	4.6	4.1	2.0	1.2	2.1	6.8	3.9	2.7	2.1	2.7	2.8	2.4	2.6	2.4	2.4	3.4	4.4	2.9	1.3	1.3	2.2	1.0	1.9	6.8	1.0	2.9
07/23/10	1.0	0.7	1.6	1.1	1.9	2.5	1.0	1.0	2.0	2.0	2.4	3.7	5.0	5.1	3.8	4.1	4.6	4.0	4.1	2.4	2.5	1.6	2.1	1.4	5.1	0.7	2.6
07/24/10	3.0	2.2	2.8	2.3	2.3	1.9	2.8	3.5	2.4	2.3	1.9	1.5	1.9	2.4	2.2	3.9	6.9	4.9	3.7	7.3	5.1	7.7	4.4	2.5	7.7	1.5	3.4
07/25/10	2.7	1.7	2.3	2.2	3.1	3.8	4.3	4.7	3.5	3.8	2.9	4.0	3.6	3.6	4.4	2.8	4.9	5.6	8.7	3.2	3.0	3.5	3.4	6.7	8.7	1.7	3.8
07/26/10	6.5	3.8	2.9	2.9	4.8	3.3	3.0	3.4	2.6	3.8	2.7	4.0	3.0	3.0	2.0	2.6	2.4	4.4	3.0	6.5	3.9	4.5	3.7	4.7	6.5	2.0	3.6
07/27/10	4.2	4.1	3.2	1.9	2.9	3.3	3.2	2.8	2.5	2.2	INV	2.7	3.0	2.2	1.8	2.4	4.4	2.9	2.9	3.1	3.5	2.7	0.7	0.4	4.4	0.4	2.7
07/28/10	1.0	1.5	1.5	0.6	0.8	0.5	3.0	1.6	2.1	3.3	1.9	2.3	2.1	3.1	3.0	4.4	6.9	4.5	5.4	3.5	3.6	1.7	2.4	2.9	6.9	0.5	2.7
07/29/10	3.4	3.2	2.2	2.8	4.2	3.5	3.9	2.7	4.1	4.0	3.5	2.6	3.0	2.5	3.0	5.0	3.6	1.9	1.3	1.5	0.7	1.4	0.7	0.4	5.0	0.4	2.7
07/30/10	1.4	4.3	4.3	1.2	1.3	0.7	0.6	0.4	1.4	1.6	2.9	2.8	2.8	3.6	3.4	3.9	3.4	2.6	1.3	2.6	3.1	4.1	3.7	3.8	4.3	0.4	2.5
07/31/10	5.0	2.1	0.8	1.1	1.5	0.4	1.5	0.9	3.0	3.6	3.0	1.5	1.9	2.6	3.8	5.0	4.6	2.1	1.0	2.3	2.4	1.9	2.4	0.9	5.0	0.4	2.3
Hourly Averages	3.1	2.9	2.7	2.4	2.9	2.7	2.9	2.9	3.1	3.2	3.2	3.5	3.6	3.7	4.1	4.4	4.4	4.1	4.2	3.8	2.7	3.0	2.8	2.9			

Maximum Hourly Wind Speed: 12.5 **Minimum Hourly Wind Speed:** 0.0 **Average Monthly Wind Speed:** 3.3

Maximum 24-Hour Mean: 5.4 **Minimum 24-Hour Mean:** 2.2

Total Number of Observations: 743 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	44	72	90	68	84	77	53	54	58	60	98	82	120	165	163	28	68	76	146	151	128	106	89	88
07/02/10	89	90	88	81	71	67	86	82	85	90	125	139	155	142	72	141	279	255	263	269	293	73	76	62
07/03/10	60	4	60	61	84	281	320	304	262	245	233	228	206	220	239	232	234	256	269	275	269	0	323	30
07/04/10	22	223	253	272	250	334	355	172	193	261	260	279	286	251	256	260	254	281	282	286	322	16	40	55
07/05/10	309	41	39	354	335	17	11	317	243	250	270	282	255	267	271	267	275	251	259	264	305	153	14	23
07/06/10	36	341	57	356	348	1	36	87	198	227	258	272	258	254	239	264	265	259	272	281	341	14	5	319
07/07/10	1	45	358	330	50	35	358	106	202	184	231	266	238	256	265	268	253	272	262	89	70	61	220	93
07/08/10	75	97	83	87	96	87	61	62	71	80	156	157	152	157	162	165	215	77	60	71	96	72	68	68
07/09/10	94	94	69	95	96	78	69	76	89	74	91	144	160	66	56	55	72	165	251	267	133	38	206	93
07/10/10	151	339	153	58	42	53	64	71	57	49	87	192	243	259	204	33	65	106	84	73	21	39	48	80
07/11/10	81	89	83	82	61	87	81	88	133	172	219	255	273	280	252	272	264	277	82	78	48	204	140	192
07/12/10	142	205	226	181	179	180	216	214	190	133	257	256	267	259	256	256	260	265	273	282	304	324	341	353
07/13/10	50	31	326	336	319	32	2	102	269	263	269	256	271	266	264	259	266	263	269	269	300	349	31	52
07/14/10	188	91	52	310	50	82	253	77	77	169	131	155	227	195	16	81	52	37	31	38	216	286	81	61
07/15/10	78	79	92	294	53	79	63	79	171	176	186	339	194	234	223	242	240	268	27	43	86	98	202	131
07/16/10	63	88	72	74	86	40	66	76	60	140	144	176	165	187	186	203	280	265	254	257	339	60	67	77
07/17/10	16	130	33	64	54	40	67	80	152	132	283	248	255	254	239	258	255	256	261	260	260	237	221	267
07/18/10	160	106	84	64	118	241	266	307	291	276	266	254	249	254	247	259	270	254	222	74	301	195	57	71
07/19/10	49	78	48	76	359	105	211	214	278	264	283	271	251	263	253	266	267	262	261	263	277	353	58	53
07/20/10	78	108	117	88	65	100	106	88	131	271	217	271	230	247	249	254	264	269	272	268	280	337	3	25
07/21/10	331	261	13	36	12	33	331	214	216	265	257	280	279	9	249	283	260	244	216	166	106	68	74	143
07/22/10	98	120	63	204	76	53	80	71	291	295	219	250	273	291	291	1	6	359	222	252	120	71	160	82
07/23/10	329	201	55	71	71	77	180	44	233	244	253	295	272	263	267	264	262	262	258	340	294	28	113	332
07/24/10	86	41	97	118	86	110	73	67	76	64	265	333	253	269	221	200	34	47	70	81	78	83	52	359
07/25/10	320	298	321	282	338	58	71	58	58	64	64	188	204	314	14	13	63	56	70	95	106	74	15	64
07/26/10	57	208	272	251	32	294	232	301	261	79	97	167	184	184	237	332	337	99	166	80	100	90	29	46
07/27/10	46	23	205	104	91	71	81	91	208	236	INV	192	188	162	257	199	49	65	112	135	323	9	227	226
07/28/10	278	306	25	94	102	70	83	203	210	203	279	309	287	236	267	234	12	35	77	72	78	143	53	54
07/29/10	124	333	56	82	71	10	52	346	64	69	55	92	135	193	164	265	318	323	284	216	119	273	347	44
07/30/10	253	158	167	356	126	122	203	216	256	232	248	280	301	262	253	260	254	261	197	58	30	86	105	134
07/31/10	168	198	247	278	200	115	179	289	196	201	183	210	249	255	250	267	342	327	290	196	142	79	63	112
Hourly Averages	125	145	126	168	129	98	139	147	170	176	199	230	228	223	212	206	204	209	195	179	190	130	114	122

Total Number of Observations: 743 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	1.0	0.7	1.0	1.3	1.0	1.4	1.5	0.9	0.9	0.9	1.5	2.6	2.9	3.2	2.8	3.8	3.8	3.2	3.9	2.4	1.0	1.4	1.2	0.5	3.9	0.5	1.9
08/02/10	0.9	1.0	2.3	2.6	2.0	1.1	0.7	0.5	1.1	1.4	1.8	2.1	2.2	2.8	3.4	3.3	4.0	3.5	3.2	1.6	1.0	1.4	2.7	2.3	4.0	0.5	2.0
08/03/10	2.3	3.1	2.6	3.6	4.7	4.2	1.8	3.2	1.9	1.7	2.2	2.4	2.6	2.9	3.0	3.3	3.3	2.9	2.8	1.6	0.9	2.0	2.1	2.3	4.7	0.9	2.6
08/04/10	1.4	2.3	2.7	2.5	3.4	4.3	3.7	3.0	2.6	1.9	1.9	2.2	3.1	3.3	3.3	3.7	3.7	3.9	3.3	1.1	1.0	3.2	3.1	3.0	4.3	1.0	2.8
08/05/10	5.8	4.1	4.7	4.5	2.3	1.6	2.6	1.5	1.6	1.7	2.5	2.6	3.4	3.9	3.6	4.7	4.2	3.3	2.4	1.6	5.2	7.1	7.6	5.7	7.6	1.5	3.7
08/06/10	4.0	3.4	2.5	2.9	2.8	3.5	5.0	5.1	3.3	4.0	2.9	3.5	3.3	2.9	3.0	3.0	3.6	3.0	2.3	1.6	1.5	3.1	3.3	2.1	5.1	1.5	3.1
08/07/10	5.2	5.7	5.9	5.2	6.5	7.7	6.5	1.7	1.7	2.8	2.7	2.2	2.8	2.6	2.5	2.3	3.1	2.1	2.3	1.7	1.3	0.8	1.6	3.2	7.7	0.8	3.3
08/08/10	3.7	5.1	6.8	3.6	3.6	3.2	5.3	3.8	2.7	2.7	2.8	2.5	2.8	2.5	3.3	2.5	4.1	4.1	3.5	3.2	4.4	4.0	1.8	5.0	6.8	1.8	3.6
08/09/10	2.7	1.6	1.9	1.1	1.1	0.9	1.3	0.9	0.8	1.1	2.0	2.1	2.7	2.9	1.8	3.8	2.9	2.1	2.1	1.6	0.7	0.9	2.4	3.2	3.8	0.7	1.9
08/10/10	2.8	2.8	2.4	1.6	0.9	0.6	2.4	2.1	1.1	1.7	2.0	2.9	2.9	3.6	3.7	3.6	3.8	3.9	3.4	2.1	1.3	1.7	2.6	2.0	3.9	0.6	2.4
08/11/10	2.1	1.2	2.0	1.9	2.0	2.2	2.0	1.0	1.4	1.8	2.2	2.2	2.5	4.0	4.0	4.2	4.5	4.4	2.9	2.0	1.5	1.3	0.7	1.3	4.5	0.7	2.3
08/12/10	1.4	0.9	1.2	1.6	1.7	1.8	1.6	0.6	1.4	1.7	1.7	3.0	3.9	4.0	4.1	4.4	4.8	4.6	3.6	1.5	1.2	0.6	0.6	0.8	4.8	0.6	2.2
08/13/10	0.7	0.7	1.4	2.3	2.3	1.5	0.7	1.8	1.2	2.0	2.0	2.1	2.9	3.4	3.8	4.1	4.4	4.4	4.0	1.8	1.7	1.2	0.7	0.4	4.4	0.4	2.1
08/14/10	0.5	0.9	0.4	1.5	2.1	2.3	1.3	0.9	1.7	2.3	2.7	2.5	2.9	3.8	4.1	4.6	5.4	5.7	4.8	2.4	0.9	1.0	0.7	1.4	5.7	0.4	2.4
08/15/10	1.7	1.3	1.7	1.4	2.3	2.4	1.2	0.8	1.7	2.6	1.7	3.2	2.8	3.7	4.2	4.9	5.0	4.5	4.3	3.5	4.5	8.8	8.0	6.0	8.8	0.8	3.4
08/16/10	4.4	4.0	8.0	4.8	3.7	3.2	3.7	2.7	2.7	3.7	7.8	5.8	4.6	4.2	4.9	4.0	3.4	3.1	3.3	2.0	4.3	6.4	3.8	3.2	8.0	2.0	4.2
08/17/10	2.8	3.7	3.2	2.2	2.8	2.6	1.1	0.6	1.3	2.2	2.2	2.9	2.3	3.2	2.9	4.2	4.7	10.3	4.4	5.6	4.8	4.0	2.5	1.2	10.3	0.6	3.2
08/18/10	1.3	2.9	3.6	2.2	1.3	1.9	3.2	2.8	2.0	2.0	2.2	3.0	2.7	3.2	3.4	3.8	3.6	3.6	3.1	1.9	1.0	1.0	0.9	0.6	3.8	0.6	2.4
08/19/10	0.3	2.3	0.8	0.9	4.2	3.6	3.3	2.3	2.2	1.8	2.1	2.2	3.4	3.7	3.9	4.4	4.6	4.5	3.5	1.7	1.2	1.8	0.8	0.3	4.6	0.3	2.5
08/20/10	0.5	0.8	1.2	0.2	0.8	1.3	2.1	0.6	1.1	1.5	2.1	3.0	3.2	3.8	4.0	4.8	5.6	5.3	4.3	2.4	0.9	0.5	1.3	0.5	5.6	0.2	2.2
08/21/10	0.6	1.0	1.0	0.6	0.6	0.3	1.3	1.5	1.5	2.2	2.8	3.8	3.6	3.6	3.8	3.8	3.8	3.8	2.6	3.1	3.7	6.7	3.3	3.1	6.7	0.3	2.6
08/22/10	3.9	8.6	9.2	4.9	2.9	2.9	2.2	2.1	2.3	2.1	2.4	2.1	2.5	2.9	3.3	2.8	2.9	2.4	2.5	1.3	0.2	1.6	0.7	0.9	9.2	0.2	2.9
08/23/10	0.7	0.3	0.1	0.4	0.8	2.1	1.2	0.9	1.4	1.5	2.0	2.6	2.5	3.1	3.4	3.2	3.5	3.2	3.3	1.1	1.1	0.5	1.5	2.5	3.5	0.1	1.8
08/24/10	2.2	1.8	1.6	2.6	1.5	0.9	3.6	1.7	2.3	6.3	4.2	2.7	4.0	3.1	2.7	4.6	6.4	7.5	7.1	6.5	8.8	6.8	4.4	3.6	8.8	0.9	4.0
08/25/10	3.4	3.0	5.8	5.2	4.8	5.3	6.2	6.5	5.8	5.4	7.0	7.0	5.6	8.6	6.4	7.1	7.1	6.7	6.5	5.3	6.6	3.3	5.1	8.5	8.6	3.0	5.9
08/26/10	8.4	7.0	5.4	4.6	4.3	3.9	5.9	7.3	7.3	5.9	3.7	5.2	5.6	5.3	5.0	5.1	4.3	4.0	3.3	2.7	2.4	0.5	0.5	0.9	8.4	0.5	4.5
08/27/10	2.1	1.5	1.9	6.1	7.1	6.0	5.6	4.1	2.6	2.1	2.3	2.9	4.1	4.3	3.2	2.8	2.9	2.7	3.8	6.7	6.7	4.4	3.3	1.1	7.1	1.1	3.8
08/28/10	3.5	4.6	3.6	3.7	3.5	3.9	4.8	2.7	2.8	3.8	3.1	3.1	3.5	3.9	4.5	4.1	5.7	5.4	3.6	4.1	6.4	6.4	5.8	2.1	6.4	2.1	4.1
08/29/10	1.5	0.8	1.5	0.6	0.5	1.0	1.1	0.9	3.7	4.6	4.6	5.5	5.3	3.9	4.8	6.0	5.0	5.9	6.2	3.4	3.7	3.8	4.8	3.9	6.2	0.5	3.5
08/30/10	3.7	3.4	3.0	2.5	2.3	1.4	1.0	0.9	2.3	3.5	3.9	4.3	4.6	5.4	5.9	5.7	6.4	5.7	5.1	3.7	1.9	1.9	0.6	0.8	6.4	0.6	3.3
08/31/10	1.0	0.5	0.7	1.6	1.1	1.0	1.6	1.5	1.5	1.7	2.0	2.1	2.5	2.7	2.8	3.6	3.9	3.3	2.8	1.5	1.2	2.1	2.5	1.0	3.9	0.5	1.9
Hourly Averages	2.5	2.6	2.9	2.6	2.6	2.6	2.8	2.2	2.2	2.6	2.8	3.1	3.3	3.7	3.7	4.1	4.3	4.3	3.7	2.7	2.7	2.9	2.6	2.4			

Maximum Hourly Wind Speed: 10.3 **Minimum Hourly Wind Speed:** 0.1 **Average Monthly Wind Speed:** 3.0

Maximum 24-Hour Mean: 5.9 **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 - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	359	79	149	112	115	95	143	248	228	144	317	324	304	288	231	247	262	267	274	301	296	53	40	35
08/02/10	59	46	63	59	46	78	332	209	180	230	288	290	91	204	286	281	289	272	257	285	353	37	53	67
08/03/10	37	65	58	103	86	82	108	96	180	188	244	233	261	267	275	289	259	267	267	302	352	47	45	37
08/04/10	354	33	37	44	63	72	71	97	136	213	254	213	243	189	215	239	260	268	280	295	41	48	47	58
08/05/10	77	81	84	84	4	47	82	156	194	191	186	198	200	220	247	265	279	266	272	282	91	73	59	48
08/06/10	358	302	208	216	293	300	47	63	55	124	174	221	278	280	314	299	306	261	288	338	201	107	83	90
08/07/10	75	115	114	85	123	84	92	114	318	245	266	233	230	252	248	312	270	272	275	266	286	278	201	196
08/08/10	115	58	61	120	86	83	66	81	90	154	155	132	244	236	203	210	275	249	238	149	79	68	154	70
08/09/10	95	53	50	11	51	293	34	218	161	246	280	296	262	220	28	287	233	285	284	294	350	12	54	74
08/10/10	56	72	59	49	338	48	49	100	196	172	204	211	197	244	206	267	274	287	279	302	349	45	48	43
08/11/10	51	63	25	48	51	57	58	87	202	191	244	222	260	268	261	254	257	239	267	296	1	322	64	1
08/12/10	53	47	51	59	50	49	24	140	157	198	211	292	266	281	263	253	262	272	286	299	309	64	87	287
08/13/10	23	337	52	53	45	41	345	73	122	204	212	211	273	278	272	258	263	260	269	287	359	13	179	348
08/14/10	278	343	0	60	48	53	57	138	220	265	258	288	267	244	285	268	258	262	266	279	322	51	66	47
08/15/10	25	44	191	295	343	4	42	288	210	265	269	256	292	284	273	271	266	258	234	149	75	69	94	80
08/16/10	75	137	56	160	186	157	84	77	52	81	65	58	153	150	184	211	285	332	291	283	67	71	79	87
08/17/10	92	77	105	109	353	109	315	253	171	276	152	224	176	83	241	237	188	26	83	82	78	97	15	198
08/18/10	69	63	43	278	286	292	12	153	181	130	193	221	210	270	270	262	263	269	268	279	311	54	3	215
08/19/10	348	45	359	32	88	95	111	125	162	247	252	279	243	239	256	243	264	262	264	290	347	352	254	161
08/20/10	289	46	11	323	33	26	59	57	215	192	174	252	252	251	251	252	259	269	264	274	92	21	9	314
08/21/10	261	79	57	343	68	90	288	311	197	281	261	256	252	296	222	238	266	260	274	294	69	138	232	21
08/22/10	67	52	58	346	330	324	275	247	171	203	186	238	230	192	262	274	260	255	271	262	24	47	126	41
08/23/10	308	61	81	35	71	41	319	359	278	201	251	266	280	265	276	299	290	273	258	318	3	12	35	87
08/24/10	103	157	12	52	335	307	82	299	292	82	59	116	160	106	197	90	102	83	87	75	74	102	178	253
08/25/10	288	258	70	68	82	94	97	67	79	61	66	133	100	104	70	72	74	58	56	73	87	67	66	83
08/26/10	86	84	101	99	54	116	104	64	78	107	79	145	147	175	179	190	184	180	187	279	336	50	304	197
08/27/10	64	309	168	62	65	71	78	50	258	328	193	239	267	250	242	221	209	207	182	90	78	93	80	47
08/28/10	85	75	78	77	86	78	71	114	150	169	185	196	194	214	217	231	231	158	132	84	138	74	74	107
08/29/10	220	283	164	198	287	293	282	203	153	158	160	159	187	327	241	181	188	219	150	135	148	147	150	146
08/30/10	148	155	151	160	183	284	296	148	181	151	167	157	163	201	227	211	235	237	241	241	266	260	302	110
08/31/10	88	102	135	168	39	53	23	73	78	234	265	213	277	212	195	277	275	262	271	308	1	73	47	329
Hourly Averages	149	120	92	126	138	123	131	152	172	191	202	218	224	229	230	242	245	237	236	242	180	95	104	125

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

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	1.3	1.1	0.9	0.6	1.0	1.5	2.0	3.5	1.8	2.0	2.6	2.4	2.7	2.9	4.0	3.2	4.2	4.3	3.3	1.8	1.7	1.5	1.2	0.0	4.3	0.0	2.2
09/02/10	0.2	1.0	1.4	0.9	1.7	1.4	1.2	0.9	1.0	1.6	1.9	3.3	3.1	3.2	2.8	3.7	4.0	4.4	3.0	2.0	1.8	0.8	0.7	0.1	4.4	0.1	1.9
09/03/10	0.2	0.5	1.2	2.5	1.5	1.8	6.9	3.9	6.7	5.7	3.7	4.5	4.5	4.6	5.1	4.3	4.0	3.3	3.7	6.4	6.0	5.9	6.9	3.6	6.9	0.2	4.1
09/04/10	3.5	2.6	1.7	3.2	5.6	3.2	2.2	2.6	2.7	2.7	3.4	2.7	3.5	4.2	4.0	3.1	3.5	2.0	1.7	0.7	0.9	1.0	1.4	1.5	5.6	0.7	2.7
09/05/10	3.3	4.3	5.4	4.9	4.0	2.6	3.2	3.1	1.6	2.0	4.8	3.8	2.6	3.2	4.5	4.2	3.9	3.6	2.7	1.5	1.1	0.3	0.7	1.1	5.4	0.3	3.0
09/06/10	1.1	1.3	0.9	0.1	0.9	1.0	2.0	1.1	1.4	1.6	2.9	2.5	3.6	3.6	4.6	4.1	3.3	1.6	0.8	0.9	1.9	2.2	1.2	1.1	4.6	0.1	1.9
09/07/10	1.0	0.9	0.6	3.8	1.1	1.0	1.4	1.0	1.9	1.8	2.1	1.8	2.4	2.8	2.8	3.5	5.1	5.5	5.6	4.9	6.5	6.4	5.6	3.1	6.5	0.6	3.0
09/08/10	2.8	3.0	2.7	0.8	0.3	0.6	0.6	1.1	1.7	2.9	3.2	4.7	4.4	6.3	5.6	5.2	6.4	6.0	5.2	4.0	2.4	0.4	0.6	1.2	6.4	0.3	3.0
09/09/10	1.3	1.3	1.1	1.8	1.5	2.0	0.5	0.9	3.2	6.0	6.1	6.0	5.8	5.5	5.2	5.9	5.8	5.9	4.8	2.1	0.9	1.0	2.1	1.6	6.1	0.5	3.3
09/10/10	1.4	1.6	1.2	0.7	1.8	1.7	2.1	2.1	1.4	2.1	3.7	3.3	3.0	3.1	3.7	3.6	3.4	3.2	2.5	1.6	2.4	2.8	2.0	1.6	3.7	0.7	2.3
09/11/10	1.1	1.7	1.6	2.1	0.9	2.9	3.4	2.5	1.8	1.3	2.5	2.5	3.5	4.1	3.7	3.0	4.4	3.4	1.7	1.6	1.6	0.9	1.0	2.3	4.4	0.9	2.3
09/12/10	1.0	0.5	1.5	1.8	1.9	2.9	3.2	3.5	1.6	1.5	2.5	3.1	3.0	3.5	3.8	4.0	4.1	3.9	2.3	1.2	0.9	1.1	1.5	1.6	4.1	0.5	2.3
09/13/10	1.9	1.4	1.9	1.3	4.9	4.5	4.0	3.8	2.3	2.3	2.0	2.8	2.7	2.7	2.9	3.0	4.7	4.4	3.0	0.6	0.5	0.4	0.5	0.8	4.9	0.4	2.5
09/14/10	0.6	0.6	2.7	5.3	4.1	4.1	3.9	2.9	1.9	2.0	2.9	2.8	3.3	3.5	3.8	4.1	4.9	4.0	2.6	1.4	0.6	1.3	0.8	0.1	5.3	0.1	2.7
09/15/10	0.7	0.0	0.3	0.2	0.7	0.2	0.6	0.3	1.3	1.3	1.9	3.1	4.5	4.5	4.7	4.8	3.5	3.9	2.5	0.9	1.9	0.0	0.2	0.9	4.8	0.0	1.8
09/16/10	1.6	0.7	0.8	1.4	1.9	1.3	1.3	3.1	3.1	2.2	2.8	3.1	2.6	3.5	4.2	4.7	4.5	4.2	3.0	0.4	0.9	0.8	0.7	1.0	4.7	0.4	2.2
09/17/10	1.3	2.7	1.2	1.5	3.6	2.6	6.5	4.1	2.4	2.7	3.9	2.5	4.4	3.7	3.9	4.0	3.9	3.5	2.7	1.3	2.3	2.8	1.4	1.4	6.5	1.2	2.9
09/18/10	2.1	1.1	1.1	5.7	4.2	4.6	5.0	7.2	3.7	3.1	3.8	3.1	2.9	2.4	3.0	3.6	3.8	4.7	2.6	1.3	1.9	1.3	2.1	4.0	7.2	1.1	3.3
09/19/10	3.0	4.9	1.9	4.7	5.6	3.7	3.4	3.0	3.7	3.6	3.3	4.6	3.6	4.7	4.2	4.3	5.5	4.6	4.1	4.3	4.0	6.2	7.1	4.6	7.1	1.9	4.3
09/20/10	5.5	7.3	6.2	8.6	8.8	9.1	8.0	6.2	4.9	5.8	2.5	3.6	3.2	3.6	4.1	3.1	3.9	3.9	2.6	1.2	0.7	0.2	0.0	1.6	9.1	0.0	4.4
09/21/10	2.2	2.2	0.8	0.4	0.7	1.1	2.0	0.5	1.2	1.7	1.9	2.4	3.1	3.5	2.9	3.5	4.0	4.4	3.1	2.7	1.1	3.8	2.7	0.6	4.4	0.4	2.2
09/22/10	1.2	0.9	4.0	2.9	2.1	1.6	2.0	2.1	1.0	1.8	1.6	1.5	3.6	4.1	5.1	5.5	5.6	4.6	4.8	4.8	4.0	2.3	1.7	0.8	5.6	0.8	2.9
09/23/10	0.7	0.8	0.8	0.7	1.9	1.6	0.4	1.3	1.1	1.7	1.7	2.2	2.5	3.0	2.6	2.6	2.3	3.0	2.2	2.0	1.6	1.5	2.4	1.7	3.0	0.4	1.8
09/24/10	1.3	0.6	1.5	1.6	1.7	2.8	2.2	2.1	1.7	1.9	2.2	2.4	2.7	2.9	2.8	2.4	1.8	4.2	3.8	3.2	0.6	2.5	7.2	6.3	7.2	0.6	2.6
09/25/10	5.3	4.1	5.6	3.2	2.1	2.2	4.2	6.1	5.6	5.8	6.1	4.7	3.1	4.6	4.0	5.0	4.0	3.5	2.6	2.3	4.4	5.7	5.8	5.4	6.1	2.1	4.4
09/26/10	4.4	4.5	5.9	5.6	6.0	4.7	4.9	4.9	5.3	6.2	6.1	4.1	3.8	5.7	6.1	4.7	3.5	2.4	3.1	2.6	3.5	3.1	3.3	3.0	6.2	2.4	4.5
09/27/10	2.6	2.9	2.3	2.4	3.9	6.7	5.3	2.7	3.5	4.6	6.4	4.0	2.8	3.4	3.1	5.0	4.3	4.1	3.1	2.3	3.2	3.0	1.8	3.0	6.7	1.8	3.6
09/28/10	2.3	2.4	1.4	3.2	1.8	3.6	4.7	2.6	2.8	2.1	2.9	2.8	2.6	3.3	3.3	3.4	3.6	3.0	0.7	0.6	1.5	1.9	3.3	4.2	4.7	0.6	2.7
09/29/10	2.6	1.7	2.1	1.3	2.0	2.6	2.9	1.2	0.9	1.2	1.7	2.3	2.7	3.3	2.9	3.2	4.0	3.3	1.3	0.5	1.0	1.0	0.8	0.9	4.0	0.5	2.0
09/30/10	1.5	1.9	1.1	0.9	1.8	2.4	2.0	1.9	4.0	2.6	2.3	4.1	5.6	4.5	5.8	5.9	4.4	2.5	1.1	1.8	4.4	4.8	5.0	4.5	5.9	0.9	3.2
Hourly Averages	2.0	2.0	2.1	2.5	2.7	2.7	3.1	2.7	2.6	2.8	3.2	3.2	3.4	3.8	4.0	4.0	4.1	3.8	2.9	2.1	2.2	2.2	2.4	2.1			

Maximum Hourly Wind Speed: 9.1 **Minimum Hourly Wind Speed:** 0.0 **Average Monthly Wind Speed:** 2.9

Maximum 24-Hour Mean: 4.5 **Minimum 24-Hour Mean:** 1.8

Total Number of Observations: 720 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	341	33	322	47	278	261	117	90	163	282	308	244	233	280	246	246	249	245	271	326	13	6	278	0
09/02/10	339	359	17	344	38	355	24	247	167	197	232	244	238	225	262	211	229	254	272	327	356	237	313	209
09/03/10	289	357	159	68	49	18	76	98	68	50	12	154	147	151	143	130	98	64	89	73	80	91	86	117
09/04/10	108	109	286	44	79	308	152	261	213	222	47	102	172	178	197	216	245	244	204	352	6	42	27	44
09/05/10	53	75	79	85	94	135	123	94	138	189	184	202	229	250	258	262	263	261	266	293	25	336	246	54
09/06/10	69	341	60	70	52	91	71	107	172	205	258	267	268	254	316	280	44	209	345	3	37	46	346	30
09/07/10	30	3	51	66	188	243	285	67	157	161	280	45	268	269	257	262	249	210	159	84	65	65	71	230
09/08/10	107	61	124	11	114	51	242	81	196	185	165	174	171	197	200	218	225	232	241	250	259	21	102	102
09/09/10	118	115	125	66	49	52	126	104	177	205	196	202	220	228	220	241	247	252	248	240	201	63	46	51
09/10/10	74	71	68	33	45	33	51	75	83	189	182	197	193	229	270	253	264	248	270	332	5	55	39	19
09/11/10	350	52	28	27	324	44	53	66	166	167	243	240	218	223	254	277	260	267	298	355	6	291	359	46
09/12/10	12	59	38	55	49	51	61	72	178	197	201	176	199	207	264	252	259	273	271	324	63	78	97	51
09/13/10	51	10	50	24	77	93	90	86	127	180	222	218	244	279	223	264	250	269	272	337	30	339	325	230
09/14/10	352	24	71	74	95	92	101	119	182	201	222	222	211	261	258	267	256	262	276	315	32	1	253	343
09/15/10	319	84	8	6	299	185	43	78	165	216	197	270	250	260	268	255	276	266	266	352	17	0	349	268
09/16/10	329	9	331	21	38	288	62	69	98	148	199	189	203	255	260	258	263	263	270	331	53	313	310	35
09/17/10	296	46	314	67	81	38	80	84	113	192	119	202	272	276	258	243	266	274	279	353	14	23	350	4
09/18/10	25	15	279	67	51	68	75	80	67	43	58	108	300	271	257	254	277	265	264	38	355	56	53	71
09/19/10	101	84	295	69	75	50	286	290	194	265	12	65	122	172	141	120	151	140	135	134	79	82	81	95
09/20/10	86	73	82	69	72	62	59	80	71	71	120	153	177	195	220	250	263	259	274	326	343	287	0	81
09/21/10	117	59	336	335	54	52	55	163	247	203	277	234	276	223	269	254	262	247	248	269	275	162	263	357
09/22/10	170	210	149	78	174	129	152	143	120	164	192	142	214	204	198	193	191	202	190	175	155	81	206	182
09/23/10	265	310	328	17	54	30	305	67	184	218	231	256	207	222	198	176	208	254	286	360	5	36	50	78
09/24/10	29	350	43	130	19	67	46	54	268	231	194	116	207	221	263	233	347	309	26	54	269	41	42	53
09/25/10	62	59	53	49	297	318	55	65	58	66	63	85	37	149	139	160	56	61	66	78	19	34	56	68
09/26/10	77	85	89	83	76	84	93	100	76	60	47	106	156	69	62	138	55	63	145	75	89	68	86	147
09/27/10	137	157	45	325	38	70	75	222	65	69	71	62	124	157	169	149	147	151	124	131	123	144	146	67
09/28/10	101	129	129	88	349	94	85	95	207	152	210	226	229	252	229	235	219	259	16	47	56	75	88	89
09/29/10	112	39	49	311	19	34	56	74	252	267	235	241	251	255	257	271	277	261	287	329	32	48	26	35
09/30/10	7	24	52	347	48	89	27	13	144	138	189	165	127	134	131	143	249	243	186	68	84	89	88	113
Hourly Averages	151	113	135	103	109	116	104	108	151	171	172	177	205	218	223	224	221	227	218	224	105	107	159	109

Total Number of Observations: 720 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-B

HOURLY SIGMA THETA DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	67	40	36	31	33	49	31	22	23	18	34	49	44	56	60	54	40	39	41	22	23	28	31	24
07/02/10	19	22	22	27	20	21	25	27	35	34	39	34	42	36	27	92	26	23	24	15	59	16	9	16
07/03/10	21	50	17	25	24	39	34	32	25	31	43	22	23	25	22	22	32	22	18	16	11	0	26	43
07/04/10	64	24	41	59	39	19	26	79	55	66	35	39	48	38	31	39	33	27	27	16	27	25	64	41
07/05/10	64	52	18	26	56	50	31	33	35	59	40	34	27	27	24	27	19	20	17	13	25	61	20	76
07/06/10	25	52	15	58	24	16	15	37	38	49	58	43	37	39	45	43	20	27	19	13	24	16	69	43
07/07/10	46	74	48	69	57	45	51	32	50	71	69	50	43	27	34	21	25	26	19	60	32	38	41	65
07/08/10	33	32	48	40	26	30	33	34	27	71	53	19	36	27	44	39	58	97	23	22	49	48	31	20
07/09/10	24	29	25	32	28	25	26	28	24	27	27	40	24	53	32	50	53	41	50	45	71	47	76	49
07/10/10	32	39	57	25	17	16	15	29	21	21	46	42	54	79	21	41	37	48	25	17	65	36	78	59
07/11/10	13	46	23	17	27	25	14	15	55	42	51	53	41	45	25	26	28	76	17	21	72	67	59	28
07/12/10	22	41	20	17	19	16	18	20	32	69	31	47	47	29	24	27	21	24	15	12	19	18	28	50
07/13/10	15	18	32	29	21	32	17	55	57	31	34	38	43	25	22	23	20	20	15	13	18	54	25	43
07/14/10	87	33	17	61	29	50	34	46	43	67	65	73	58	61	49	21	43	76	12	50	80	83	48	58
07/15/10	30	11	80	39	14	55	15	9	48	16	57	101	45	49	33	55	50	45	14	18	22	30	71	66
07/16/10	51	28	44	83	78	72	54	22	31	66	59	15	26	43	53	52	50	26	13	15	72	22	21	80
07/17/10	62	61	40	15	25	46	15	47	52	39	35	37	38	39	40	44	26	17	17	13	14	22	29	43
07/18/10	19	44	14	14	60	35	31	22	21	33	22	19	20	21	25	25	23	28	64	69	43	72	31	23
07/19/10	48	83	66	75	53	27	9	21	32	21	32	37	19	22	28	21	18	15	15	11	14	26	34	24
07/20/10	13	36	36	43	33	39	54	10	30	49	35	41	32	34	26	30	24	23	22	14	14	31	45	71
07/21/10	8	20	52	37	51	12	38	26	38	24	20	21	26	82	60	39	24	27	42	16	25	24	37	24
07/22/10	27	59	49	65	63	27	16	62	25	57	20	44	42	52	59	49	33	20	74	78	72	29	58	57
07/23/10	66	43	23	38	51	25	46	52	34	35	44	30	20	19	36	27	23	20	18	23	34	44	73	61
07/24/10	26	81	46	50	49	60	53	33	72	42	73	50	92	69	86	41	56	49	72	13	50	18	42	60
07/25/10	46	64	45	55	85	56	40	36	63	47	46	37	40	61	18	49	45	32	10	81	48	33	84	15
07/26/10	25	28	58	65	53	71	36	72	72	50	61	47	43	45	70	54	71	46	65	25	59	79	85	51
07/27/10	45	71	55	18	30	43	47	42	54	42	INV	44	38	35	76	72	35	29	57	39	42	85	30	34
07/28/10	34	33	69	53	57	30	27	19	51	25	52	29	50	49	45	28	71	50	15	49	40	92	17	30
07/29/10	73	66	65	35	26	50	44	90	41	38	34	61	61	58	66	32	22	18	37	42	42	50	44	11
07/30/10	56	46	40	66	60	41	12	30	28	48	25	35	35	20	24	24	30	14	72	14	45	19	50	43
07/31/10	26	30	55	75	49	39	85	39	18	12	19	72	32	40	23	19	23	35	29	37	23	32	17	59

Total Number of Observations: 743 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	59	47	40	55	47	61	53	22	24	69	44	47	35	43	33	26	30	21	15	19	53	13	40	38
08/02/10	17	60	17	54	31	70	45	31	22	47	40	39	91	65	53	32	25	17	16	30	19	22	10	61
08/03/10	32	16	28	45	12	12	58	24	33	32	59	55	49	38	60	30	31	25	23	37	26	32	25	32
08/04/10	36	28	38	31	17	8	12	41	63	28	59	61	54	61	50	32	31	23	16	42	9	12	27	40
08/05/10	19	32	24	17	82	77	41	59	33	37	46	55	53	42	63	26	25	23	21	31	33	26	24	34
08/06/10	75	46	72	29	41	73	53	37	39	35	38	43	38	30	37	42	36	29	14	36	23	48	30	43
08/07/10	41	36	40	55	25	31	31	34	59	21	20	42	33	55	67	80	38	27	22	21	39	36	40	58
08/08/10	26	35	24	43	32	36	19	38	33	28	38	74	68	70	45	51	34	27	28	21	20	11	63	16
08/09/10	44	21	46	51	20	87	64	62	33	61	41	55	58	82	76	42	59	46	28	29	51	36	15	27
08/10/10	16	51	48	33	61	16	14	41	33	43	44	40	61	54	51	39	30	19	15	21	25	13	12	24
08/11/10	67	32	70	21	21	13	15	18	42	34	77	65	57	43	36	23	26	21	31	20	23	74	41	60
08/12/10	87	21	26	13	13	12	52	25	51	50	74	42	34	32	23	29	24	22	16	23	20	23	64	20
08/13/10	29	45	42	10	8	48	43	14	42	49	46	63	48	38	26	24	20	18	13	21	26	58	64	32
08/14/10	33	54	34	16	13	12	24	58	38	42	41	64	36	33	33	26	19	13	12	24	36	13	23	18
08/15/10	59	55	57	69	24	24	71	39	33	23	65	34	58	38	22	20	17	18	28	58	34	19	24	32
08/16/10	65	75	29	92	65	70	20	32	44	96	14	38	34	43	32	34	38	27	22	20	36	9	22	38
08/17/10	59	29	34	91	76	87	39	23	40	36	53	58	80	63	70	28	61	35	64	37	48	54	80	58
08/18/10	39	56	52	88	43	53	63	84	32	44	51	47	69	47	35	27	29	17	15	17	18	15	29	29
08/19/10	23	11	36	44	14	17	34	36	61	47	83	97	54	44	38	26	19	18	14	26	23	55	58	18
08/20/10	16	59	51	14	54	16	72	28	40	60	51	50	32	35	39	27	18	17	12	14	56	25	38	43
08/21/10	30	61	24	65	18	19	19	19	34	42	44	27	33	39	37	42	29	18	19	47	28	37	73	47
08/22/10	53	39	21	53	77	64	54	71	59	50	30	44	54	50	49	30	27	30	24	35	18	18	50	34
08/23/10	30	24	14	40	34	37	45	54	59	38	39	56	51	47	31	31	33	23	9	25	30	33	49	70
08/24/10	71	93	52	19	73	39	42	61	88	21	44	72	33	86	67	35	23	31	24	26	18	45	46	94
08/25/10	82	85	44	36	38	58	50	22	37	27	22	38	37	27	45	33	24	23	28	38	27	33	27	24
08/26/10	29	31	50	69	96	55	34	30	37	29	46	44	19	16	27	18	21	23	11	58	22	12	57	61
08/27/10	78	53	80	19	14	21	32	71	59	72	89	34	29	29	38	67	28	26	22	23	12	46	45	36
08/28/10	22	13	16	18	17	16	20	32	33	24	36	37	43	35	39	27	29	29	30	17	41	34	27	63
08/29/10	60	21	60	40	16	33	32	78	22	25	22	17	29	55	40	60	30	23	43	25	17	15	15	16
08/30/10	17	16	16	12	36	33	17	36	23	20	27	21	20	23	18	23	21	16	17	16	16	18	30	55
08/31/10	24	23	18	18	43	34	66	33	25	76	56	74	54	82	46	41	22	26	26	16	26	47	38	60

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

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	76	50	51	64	26	74	51	13	82	50	67	66	61	62	44	36	24	18	19	19	24	45	27	0
09/02/10	10	55	36	53	49	61	38	56	29	39	42	35	45	46	64	38	26	20	15	20	23	64	15	15
09/03/10	10	41	62	56	54	63	12	70	18	32	69	43	34	31	31	40	66	30	22	27	28	26	25	47
09/04/10	61	92	73	78	37	68	77	73	27	97	37	74	32	31	36	51	41	65	22	51	34	9	53	15
09/05/10	14	11	14	21	37	55	36	47	45	56	16	30	47	70	27	29	33	25	18	27	30	5	57	46
09/06/10	35	51	65	7	11	39	21	33	34	67	84	58	40	37	69	84	31	40	67	48	38	43	66	47
09/07/10	44	71	53	15	64	57	27	35	30	39	62	79	88	65	62	43	27	45	19	27	17	13	24	52
09/08/10	73	77	56	54	17	53	66	28	44	20	40	23	29	16	28	18	22	19	13	14	17	44	55	47
09/09/10	29	33	25	25	18	25	50	71	29	18	20	28	27	26	29	27	25	16	15	36	72	34	7	12
09/10/10	35	27	29	15	17	55	36	35	50	37	24	50	55	61	34	35	32	34	16	16	20	26	41	45
09/11/10	50	59	34	38	26	16	21	67	40	26	56	73	39	29	36	28	16	12	21	26	51	31	52	25
09/12/10	67	30	15	39	36	18	25	39	56	35	33	49	36	40	29	32	25	13	15	32	32	46	50	16
09/13/10	16	59	17	51	12	13	16	15	61	39	54	57	57	53	52	45	19	14	15	24	15	27	25	45
09/14/10	39	32	19	11	24	16	27	38	26	31	44	35	45	32	23	21	19	14	16	13	45	30	37	3
09/15/10	48	2	21	36	32	33	18	9	31	41	39	37	29	46	29	22	29	18	14	21	51	0	18	61
09/16/10	64	25	49	36	68	57	78	41	27	36	55	47	58	44	33	21	27	18	13	33	14	39	30	18
09/17/10	49	19	68	28	31	49	10	15	42	64	33	87	37	48	44	21	28	20	20	28	17	36	62	64
09/18/10	73	31	32	36	46	21	22	13	38	84	29	44	92	61	45	57	28	16	15	40	30	32	30	16
09/19/10	43	27	55	42	30	75	50	37	98	69	75	24	56	30	45	67	23	23	14	14	24	19	18	28
09/20/10	27	26	27	21	22	18	19	28	28	35	48	30	37	48	35	40	31	17	18	24	35	8	0	58
09/21/10	40	34	62	33	15	10	12	39	31	68	57	76	45	54	48	41	24	17	12	13	18	21	48	43
09/22/10	41	28	27	61	56	65	52	73	45	33	30	76	23	17	15	15	14	14	14	15	56	60	69	55
09/23/10	53	16	19	40	14	15	39	42	47	42	38	45	46	39	51	40	41	19	34	23	67	73	20	63
09/24/10	79	41	54	67	44	32	33	50	48	31	48	69	63	45	51	46	77	53	15	47	37	33	14	15
09/25/10	17	44	16	79	57	64	39	11	24	25	25	41	62	34	55	26	28	46	55	29	19	14	15	12
09/26/10	17	19	10	25	25	25	32	18	33	42	28	69	76	46	43	62	54	72	22	29	23	34	27	61
09/27/10	52	26	43	45	67	18	20	94	67	35	18	33	66	63	60	31	24	14	19	36	15	47	58	21
09/28/10	57	44	86	37	78	20	20	92	26	80	34	45	40	53	48	29	40	16	52	26	31	32	28	29
09/29/10	36	84	54	39	74	46	25	65	47	62	49	50	50	34	46	36	19	16	24	34	15	11	21	20
09/30/10	65	53	23	73	19	51	48	86	62	52	48	30	18	31	27	28	37	31	31	49	15	15	19	29

Total Number of Observations: 720 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-C

HOURLY DIFFERENTIAL TEMPERATURE DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	30.7	30.4	30.3	29.7	29.1	28.5	28.6	29.3	30.2	31.6	33.1	34.1	35.3	36.1	37.1	37.1	36.5	36.1	36.0	35.9	34.9	32.9	32.1	32.8	37.1	28.5	32.8
07/02/10	33.4	33.4	33.2	32.5	31.8	30.8	30.6	30.9	31.7	32.7	34.0	35.0	36.2	36.1	34.8	36.9	38.5	38.3	38.1	37.0	35.6	34.1	33.1	32.2	38.5	30.6	34.2
07/03/10	32.1	31.3	30.7	30.1	29.7	28.6	27.8	28.3	28.8	29.7	30.6	32.0	32.8	33.2	34.0	34.5	34.5	33.9	33.5	32.5	31.2	30.5	29.5	28.8	34.5	27.8	31.2
07/04/10	27.8	26.7	25.8	25.4	24.7	24.2	23.8	24.6	25.3	26.5	27.7	28.8	29.8	30.6	31.5	31.9	32.2	32.4	32.2	31.6	30.9	30.4	29.2	28.5	32.4	23.8	28.4
07/05/10	28.0	27.4	27.0	26.8	25.8	24.9	25.0	25.9	26.9	28.0	29.2	30.3	31.2	32.1	32.9	33.3	33.4	33.4	33.1	32.3	31.2	30.6	30.5	28.9	33.4	24.9	29.5
07/06/10	28.6	28.2	27.6	26.3	26.0	25.7	25.1	26.0	27.4	28.9	30.4	31.8	32.9	33.8	34.1	34.4	34.6	34.4	33.9	33.2	32.4	32.2	30.1	29.9	34.6	25.1	30.3
07/07/10	29.2	28.7	29.0	28.3	28.1	27.3	26.5	27.3	28.6	30.0	31.9	33.2	34.7	35.5	35.8	35.8	35.9	36.0	35.5	34.1	32.9	32.8	32.0	31.9	36.0	26.5	31.7
07/08/10	31.5	31.3	30.9	30.4	30.0	29.4	28.9	29.6	30.3	31.9	32.8	33.8	34.6	35.5	36.2	37.0	37.6	36.7	35.7	34.7	33.9	33.3	32.7	32.0	37.6	28.9	33.0
07/09/10	32.2	31.9	31.9	31.4	31.3	31.0	30.6	30.8	31.4	32.0	33.0	34.2	35.2	35.0	35.7	36.2	36.1	36.4	36.3	35.6	33.7	33.9	33.3	33.0	36.4	30.6	33.4
07/10/10	32.7	31.8	30.9	31.0	31.4	31.2	31.0	30.9	31.9	32.6	33.5	34.8	35.7	36.4	36.2	31.4	27.2	29.8	29.8	30.8	30.7	32.0	31.8	30.3	36.4	27.2	31.9
07/11/10	29.8	29.1	28.7	28.3	28.1	27.6	27.4	28.0	28.7	29.9	31.1	32.2	32.9	33.8	34.5	34.8	35.1	34.5	31.8	31.8	31.3	30.5	30.1	29.1	35.1	27.4	30.8
07/12/10	29.1	28.4	27.6	27.2	27.0	26.7	26.5	26.5	27.3	28.6	30.1	31.1	32.2	33.3	33.8	34.4	34.7	34.9	34.8	34.1	33.3	33.0	32.9	31.9	34.9	26.5	30.8
07/13/10	31.0	30.5	30.1	29.6	28.7	27.9	28.1	28.9	29.7	30.8	31.9	33.0	34.3	35.2	35.6	36.0	36.2	36.5	36.0	35.0	34.6	34.1	33.9	33.3	36.5	27.9	32.5
07/14/10	31.9	31.6	31.1	30.4	30.0	30.2	29.8	30.2	30.9	32.1	32.6	33.4	34.6	35.5	33.5	29.7	32.0	33.9	34.1	34.4	33.3	33.3	32.2	32.0	35.5	29.7	32.2
07/15/10	31.6	31.4	30.7	29.8	30.4	29.5	30.7	31.8	32.8	33.4	34.3	35.6	36.8	37.6	38.0	38.3	38.6	38.3	36.2	35.9	35.3	34.4	33.2	32.9	38.6	29.5	34.1
07/16/10	31.7	31.4	31.6	31.0	30.5	30.3	30.0	30.2	30.7	31.8	32.4	32.6	32.8	34.0	34.7	35.5	36.6	37.1	36.2	34.9	32.5	29.1	28.4	29.5	37.1	28.4	32.3
07/17/10	28.1	28.4	28.3	28.0	28.0	28.0	28.5	29.5	30.1	31.3	32.6	33.5	34.4	35.0	35.8	36.5	36.7	37.0	36.7	36.0	35.4	34.5	30.0	29.5	37.0	28.0	32.2
07/18/10	29.0	27.6	28.1	28.3	27.4	27.7	27.4	28.8	30.3	31.5	32.7	33.1	33.6	34.0	34.8	35.3	35.5	35.8	35.7	33.9	34.6	34.8	33.5	32.5	35.8	27.4	31.9
07/19/10	31.8	31.9	31.2	31.2	31.3	30.7	30.5	30.6	31.1	31.8	33.4	34.4	35.2	36.1	36.6	37.0	37.1	37.1	36.8	36.0	35.2	35.1	34.8	32.7	37.1	30.5	33.7
07/20/10	32.0	30.6	28.5	26.8	27.4	27.8	28.0	29.7	31.1	32.1	32.9	33.9	34.6	35.2	35.9	36.0	36.3	36.0	35.6	35.2	34.4	33.8	33.5	32.9	36.3	26.8	32.5
07/21/10	32.4	31.5	31.3	31.0	30.6	29.6	29.6	30.1	30.7	31.6	31.5	31.8	32.1	30.9	32.9	33.7	34.3	34.5	34.2	33.2	32.4	31.3	31.0	28.7	34.5	28.7	31.7
07/22/10	25.2	23.7	23.4	22.7	22.2	23.3	24.4	24.0	24.5	25.2	25.6	27.0	28.2	29.2	29.9	30.4	30.3	29.7	27.2	26.0	25.5	26.8	26.4	26.2	30.4	22.2	26.1
07/23/10	26.3	25.2	25.7	25.2	24.9	25.5	24.8	25.9	27.1	27.8	29.1	29.8	30.0	30.2	30.7	31.0	31.6	31.6	31.1	30.3	28.8	28.4	28.0	27.4	31.6	24.8	28.2
07/24/10	27.4	27.2	27.3	27.2	26.7	26.7	26.7	27.4	28.4	29.2	30.0	30.5	31.4	32.4	33.2	33.9	30.6	26.2	25.3	26.7	27.4	27.7	28.1	28.2	33.9	25.3	28.6
07/25/10	27.8	27.1	27.1	27.1	27.7	27.5	27.6	28.1	28.6	29.6	30.9	31.9	32.6	33.0	32.8	33.2	31.1	30.7	29.9	29.2	28.8	28.1	28.0	27.9	33.2	27.1	29.4
07/26/10	27.3	26.9	26.8	26.7	26.8	26.8	26.7	26.5	27.0	27.4	28.6	29.4	30.2	30.7	31.5	32.3	32.4	31.4	31.0	29.8	28.7	28.2	28.2	28.4	32.4	26.5	28.7
07/27/10	28.0	28.1	28.1	27.6	27.4	27.5	27.4	27.4	27.9	INV	28.9	29.8	29.9	30.4	31.4	32.1	30.9	31.2	31.2	30.0	27.8	26.4	25.3	26.0	32.1	25.3	28.7
07/28/10	25.9	25.8	25.6	25.4	25.1	24.7	25.6	25.7	27.1	27.6	28.3	29.0	30.1	31.4	31.9	32.9	28.2	23.7	25.7	26.7	27.1	25.9	26.3	26.5	32.9	23.7	27.2
07/29/10	27.1	26.3	25.2	25.3	26.0	25.7	25.9	26.4	26.9	27.6	28.6	29.9	30.9	31.7	32.4	29.6	27.6	26.8	27.0	26.4	26.3	26.4	26.4	26.5	32.4	25.2	27.5
07/30/10	26.2	25.8	23.3	22.4	22.1	21.8	22.0	22.7	24.4	26.2	26.6	26.6	27.5	28.1	29.1	29.8	29.7	29.4	28.5	27.8	27.9	26.9	26.9	25.3	29.8	21.8	26.1
07/31/10	24.1	23.0	22.6	22.5	22.7	22.4	22.8	22.7	23.0	22.8	22.8	23.6	24.1	25.6	26.3	26.2	23.1	23.9	23.4	23.2	23.3	23.1	23.3	22.9	26.3	22.4	23.5
Hourly Averages	29.3	28.8	28.4	27.9	27.7	27.4	27.4	27.9	28.7	29.7	30.7	31.6	32.5	33.1	33.7	33.8	33.4	33.1	32.7	32.1	31.3	30.8	30.1	29.6			

Maximum Hourly Temperature: 38.6 **Minimum Hourly Temperature:** 21.8 **Average Monthly Temperature:** 30.5

Maximum 24-Hour Mean: 34.2 **Minimum 24-Hour Mean:** 23.5

Total Number of Observations: 743 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	30.6	30.3	30.2	29.7	29.0	28.4	28.6	29.6	30.8	32.6	34.5	35.6	37.0	37.4	38.6	38.3	37.3	36.3	35.9	35.7	34.8	33.0	32.2	32.7	38.6	28.4	33.3
07/02/10	33.3	33.3	33.1	32.5	31.7	30.8	30.6	31.3	32.4	33.7	35.1	36.6	37.6	37.3	35.5	37.9	39.3	39.2	38.6	37.0	35.3	33.8	32.8	31.8	39.3	30.6	34.6
07/03/10	30.9	30.0	29.3	29.1	29.0	28.0	27.7	28.6	29.6	30.8	32.0	33.7	34.6	35.0	35.6	35.9	35.6	34.8	34.1	32.7	31.1	30.2	29.4	28.4	35.9	27.7	31.5
07/04/10	27.4	26.4	25.5	25.1	24.4	23.8	23.6	25.1	26.0	27.4	28.8	29.9	30.9	32.0	33.0	33.2	33.3	33.3	32.8	31.8	30.9	30.3	28.9	27.9	33.3	23.6	28.8
07/05/10	27.1	26.8	25.7	25.7	25.1	24.0	24.4	26.2	27.5	28.8	30.1	31.4	32.5	33.3	34.2	34.5	34.5	34.3	33.7	32.5	31.2	30.1	29.8	28.4	34.5	24.0	29.7
07/06/10	27.3	27.0	26.1	25.4	25.6	24.5	24.1	26.5	28.1	29.8	31.5	32.8	34.1	35.1	35.5	35.6	35.7	35.2	34.6	33.3	32.3	31.9	29.5	29.0	35.7	24.1	30.4
07/07/10	28.1	27.8	28.2	27.7	27.3	26.4	26.3	27.7	29.3	30.9	33.1	34.1	35.9	36.9	37.1	37.1	37.0	36.8	36.1	34.3	32.9	32.8	31.9	31.8	37.1	26.3	32.0
07/08/10	31.3	31.0	30.7	30.2	29.9	29.3	29.0	30.0	31.2	32.8	33.9	35.0	35.9	37.0	37.7	38.3	38.7	37.4	36.1	34.9	33.9	33.4	32.8	32.1	38.7	29.0	33.4
07/09/10	32.2	31.9	31.8	31.4	31.3	31.0	30.7	31.1	32.4	33.0	34.4	35.6	36.7	36.1	37.0	37.1	36.6	36.7	36.5	35.7	33.8	33.9	33.3	32.9	37.1	30.7	33.9
07/10/10	32.7	31.8	30.7	30.7	31.4	31.2	31.1	31.2	32.5	33.5	34.5	36.1	37.1	37.7	37.2	31.7	26.7	29.4	29.4	30.3	30.3	31.7	31.3	29.9	37.7	26.7	32.1
07/11/10	29.3	28.9	28.4	28.1	28.0	27.4	27.2	28.2	29.3	30.7	32.1	33.2	33.9	34.9	35.8	35.9	36.2	35.3	32.3	31.9	31.3	30.5	30.1	29.1	36.2	27.2	31.2
07/12/10	29.0	28.3	27.6	27.2	26.9	26.7	26.6	26.8	28.1	29.5	31.1	32.3	33.3	34.5	35.1	35.6	35.7	35.7	35.2	34.2	33.3	32.9	32.6	31.3	35.7	26.6	31.2
07/13/10	30.1	29.5	29.6	28.8	28.1	26.9	27.6	29.2	30.3	31.7	32.8	34.1	35.3	36.3	36.7	37.1	37.1	37.3	36.5	35.1	34.5	33.7	33.0	32.6	37.3	26.9	32.7
07/14/10	31.4	31.1	30.4	29.8	29.7	30.0	29.7	30.3	31.4	32.9	33.3	34.1	35.7	36.5	33.6	29.6	31.9	34.0	34.1	34.3	33.1	33.2	31.8	31.6	36.5	29.6	32.2
07/15/10	31.0	31.1	30.2	29.4	29.5	29.0	30.3	32.1	33.7	34.5	35.5	36.8	38.3	38.9	39.5	39.5	39.6	39.0	36.6	36.0	35.3	34.4	33.2	33.0	39.6	29.0	34.4
07/16/10	31.7	31.3	31.6	31.0	30.5	30.3	30.1	30.3	31.0	32.3	33.3	33.3	33.5	35.2	36.1	36.5	37.5	37.9	36.7	35.0	32.6	29.3	27.8	29.1	37.9	27.8	32.7
07/17/10	27.8	28.1	28.0	27.6	27.7	27.3	28.3	29.8	30.4	32.1	33.5	34.8	35.7	36.2	37.2	37.8	37.8	38.0	37.4	36.3	35.5	34.6	30.3	29.7	38.0	27.3	32.6
07/18/10	29.1	27.8	28.2	28.3	27.5	27.8	27.6	29.0	31.0	32.5	33.8	34.5	35.0	35.4	36.2	36.6	36.6	36.8	36.4	34.2	34.8	34.8	33.5	32.5	36.8	27.5	32.5
07/19/10	31.9	31.7	31.2	30.9	31.0	30.6	30.5	30.9	31.8	32.7	34.4	35.4	36.6	37.3	38.1	38.1	38.0	38.0	37.4	36.3	35.3	35.0	34.6	32.8	38.1	30.5	34.2
07/20/10	32.1	30.7	28.6	26.7	27.3	27.7	28.0	30.4	32.1	32.9	34.2	35.1	36.1	36.4	37.3	37.2	37.3	36.8	36.1	35.4	34.4	33.5	33.2	32.5	37.3	26.7	33.0
07/21/10	31.9	31.0	30.4	30.3	30.4	29.1	29.3	30.5	31.2	32.4	32.8	33.0	33.2	31.5	33.5	34.4	34.9	35.0	34.4	33.1	32.2	31.3	31.0	28.6	35.0	28.6	31.9
07/22/10	24.9	23.5	23.2	22.5	22.2	23.0	24.0	24.1	24.8	25.6	26.4	27.9	28.8	30.0	30.6	31.0	30.6	30.0	27.5	26.0	25.6	26.7	26.3	26.1	31.0	22.2	26.3
07/23/10	26.2	25.1	25.7	24.9	24.5	25.2	24.7	26.0	27.9	28.6	30.0	30.7	31.2	31.3	31.8	32.1	32.7	32.5	31.7	30.5	29.0	28.4	28.0	27.4	32.7	24.5	28.6
07/24/10	27.2	27.2	27.2	27.1	26.6	26.7	26.8	27.8	29.0	29.9	30.5	30.9	32.2	33.3	34.3	35.1	31.1	25.9	25.0	26.2	27.0	27.3	27.7	28.0	35.1	25.0	28.7
07/25/10	27.5	26.6	26.7	26.6	27.4	27.3	27.4	28.2	28.9	30.2	31.8	33.0	33.9	33.8	33.4	33.8	31.7	31.0	30.2	29.4	28.8	28.2	28.1	27.9	33.9	26.6	29.7
07/26/10	27.3	26.9	26.9	26.8	26.9	26.8	26.7	26.6	27.2	27.8	29.4	30.4	31.1	31.9	32.3	33.0	33.0	32.1	31.4	30.0	28.9	28.3	28.3	28.5	33.0	26.6	29.1
07/27/10	28.1	28.2	28.1	27.6	27.4	27.5	27.4	27.5	28.6	INV	28.1	36.5	33.0	33.7	36.6	35.3	32.8	32.7	32.0	30.4	28.1	26.7	25.6	26.1	36.6	25.6	29.9
07/28/10	26.0	25.8	25.5	25.1	25.0	24.4	25.8	27.4	30.2	29.4	30.3	31.6	34.2	35.2	35.6	38.1	25.6	21.7	24.1	24.9	26.1	25.2	25.6	25.7	38.1	21.7	27.9
07/29/10	26.5	25.8	24.7	24.7	25.4	25.1	25.7	26.9	28.0	29.5	32.0	35.6	34.4	34.7	37.0	33.0	29.0	27.7	27.8	26.5	26.2	26.2	26.1	25.9	37.0	24.7	28.5
07/30/10	26.0	25.8	22.6	21.6	21.7	21.6	22.3	23.4	27.1	29.9	29.1	29.5	30.2	30.8	33.5	34.3	32.4	29.7	28.4	27.5	27.5	26.4	26.6	25.2	34.3	21.6	27.2
07/31/10	24.1	23.0	22.7	22.5	22.7	22.6	23.1	23.2	23.7	24.2	24.9	27.7	27.2	29.0	30.0	29.0	22.9	22.6	22.8	22.6	21.9	21.7	22.6	22.6	30.0	21.7	24.1
Hourly Averages	29.0	28.5	28.0	27.6	27.4	27.1	27.3	28.3	29.5	30.7	31.8	33.3	34.0	34.7	35.3	35.2	34.2	33.6	33.0	32.1	31.2	30.6	29.9	29.4			

Maximum Hourly Temperature: 39.6 **Minimum Hourly Temperature:** 21.6 **Average Monthly Temperature:** 30.9

Maximum 24-Hour Mean: 34.6 **Minimum 24-Hour Mean:** 24.1

Total Number of Observations: 743 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	0.015	0.053	0.083	0.016	0.044	0.043	-0.063	-0.362	-0.602	-0.984	-1.401	-1.525	-1.696	-1.289	-1.585	-1.237	-0.763	-0.146	0.092	0.192	0.099	-0.001	-0.018	0.041	0.192	-1.696	-0.458
07/02/10	0.072	0.079	0.086	0.023	0.031	0.020	-0.075	-0.457	-0.709	-0.983	-1.186	-1.560	-1.465	-1.162	-0.752	-0.945	-0.860	-0.832	-0.509	-0.028	0.305	0.341	0.291	0.455	0.455	-1.560	-0.409
07/03/10	1.196	1.345	1.390	1.075	0.717	0.599	0.158	-0.380	-0.820	-1.119	-1.399	-1.694	-1.787	-1.761	-1.632	-1.377	-1.116	-0.895	-0.577	-0.198	0.130	0.223	0.169	0.471	1.390	-1.787	-0.303
07/04/10	0.414	0.283	0.288	0.305	0.265	0.400	0.167	-0.533	-0.718	-0.869	-1.134	-1.102	-1.120	-1.343	-1.494	-1.310	-1.151	-0.878	-0.590	-0.253	-0.059	0.066	0.351	0.694	0.694	-1.494	-0.388
07/05/10	0.868	0.601	1.305	1.119	0.765	0.884	0.556	-0.299	-0.648	-0.849	-0.932	-1.089	-1.326	-1.207	-1.234	-1.276	-1.047	-0.929	-0.599	-0.193	0.048	0.454	0.687	0.533	1.305	-1.326	-0.159
07/06/10	1.292	1.229	1.463	0.909	0.480	1.186	0.998	-0.525	-0.665	-0.899	-1.113	-1.050	-1.172	-1.343	-1.398	-1.217	-1.066	-0.876	-0.699	-0.163	0.158	0.272	0.633	0.841	1.463	-1.398	-0.114
07/07/10	1.114	0.846	0.781	0.667	0.762	0.942	0.193	-0.396	-0.764	-0.906	-1.129	-0.969	-1.265	-1.345	-1.303	-1.214	-1.056	-0.818	-0.576	-0.205	-0.066	0.007	0.101	0.095	1.114	-1.345	-0.271
07/08/10	0.155	0.266	0.190	0.174	0.135	0.075	-0.036	-0.405	-0.809	-0.882	-1.127	-1.217	-1.322	-1.482	-1.451	-1.262	-1.081	-0.666	-0.353	-0.214	-0.084	-0.064	-0.097	-0.082	0.266	-1.482	-0.485
07/09/10	0.011	0.036	0.023	-0.015	0.000	-0.024	-0.061	-0.303	-0.948	-0.996	-1.447	-1.393	-1.477	-1.047	-1.318	-0.900	-0.491	-0.323	-0.192	-0.130	-0.044	0.024	0.037	0.096	0.096	-1.477	-0.453
07/10/10	0.068	0.018	0.200	0.272	0.017	0.007	-0.070	-0.292	-0.642	-0.949	-1.061	-1.351	-1.370	-1.285	-1.027	-0.209	0.469	0.375	0.333	0.460	0.403	0.318	0.467	0.440	0.469	-1.370	-0.184
07/11/10	0.517	0.202	0.288	0.251	0.154	0.163	0.173	-0.218	-0.580	-0.817	-1.018	-1.061	-1.053	-1.164	-1.244	-1.144	-1.047	-0.821	-0.466	-0.155	-0.076	-0.008	0.004	-0.013	0.517	-1.244	-0.381
07/12/10	0.087	0.061	-0.013	0.018	0.025	0.009	-0.074	-0.247	-0.797	-0.927	-1.043	-1.156	-1.075	-1.230	-1.222	-1.231	-0.982	-0.759	-0.467	-0.115	-0.019	0.107	0.259	0.642	0.642	-1.231	-0.423
07/13/10	0.915	0.986	0.561	0.827	0.557	0.960	0.528	-0.340	-0.608	-0.881	-0.922	-1.101	-0.977	-1.100	-1.062	-1.055	-0.858	-0.877	-0.527	-0.079	0.034	0.365	0.978	0.635	0.986	-1.101	-0.127
07/14/10	0.552	0.460	0.670	0.595	0.285	0.215	0.164	-0.056	-0.446	-0.729	-0.626	-0.749	-1.139	-0.971	-0.141	0.110	0.033	-0.127	-0.014	0.068	0.207	0.143	0.349	0.361	0.670	-1.139	-0.033
07/15/10	0.571	0.320	0.452	0.458	0.858	0.567	0.378	-0.297	-0.835	-1.078	-1.223	-1.196	-1.456	-1.372	-1.458	-1.181	-0.966	-0.726	-0.399	-0.176	-0.052	-0.007	-0.055	-0.036	0.858	-1.458	-0.371
07/16/10	-0.053	0.071	-0.003	-0.024	-0.040	-0.018	-0.057	-0.150	-0.327	-0.555	-0.851	-0.724	-0.736	-1.183	-1.391	-0.959	-0.834	-0.761	-0.459	-0.172	-0.126	-0.191	0.579	0.446	0.579	-1.391	-0.355
07/17/10	0.326	0.282	0.249	0.351	0.282	0.669	0.209	-0.230	-0.342	-0.775	-0.889	-1.312	-1.248	-1.278	-1.380	-1.238	-1.096	-0.991	-0.651	-0.318	-0.098	-0.076	-0.215	-0.174	0.669	-1.380	-0.414
07/18/10	-0.134	-0.214	-0.081	-0.034	-0.050	-0.044	-0.135	-0.277	-0.652	-0.949	-1.103	-1.351	-1.412	-1.457	-1.456	-1.292	-1.071	-0.952	-0.692	-0.303	-0.145	0.036	-0.022	-0.042	0.036	-1.457	-0.576
07/19/10	-0.022	0.213	0.079	0.252	0.272	0.148	0.014	-0.313	-0.670	-0.859	-0.981	-1.042	-1.335	-1.264	-1.422	-1.179	-0.938	-0.893	-0.614	-0.250	-0.028	0.090	0.180	-0.119	0.272	-1.422	-0.445
07/20/10	-0.073	-0.135	-0.137	0.087	0.082	0.052	0.020	-0.710	-0.950	-0.795	-1.277	-1.196	-1.537	-1.250	-1.406	-1.223	-0.981	-0.834	-0.475	-0.174	0.029	0.232	0.389	0.380	0.389	-1.537	-0.495
07/21/10	0.461	0.452	0.875	0.706	0.159	0.437	0.262	-0.414	-0.501	-0.804	-1.236	-1.210	-1.110	-0.558	-0.659	-0.650	-0.584	-0.517	-0.215	0.015	0.148	0.008	0.018	0.159	0.875	-1.236	-0.198
07/22/10	0.252	0.263	0.189	0.195	0.073	0.255	0.335	-0.057	-0.278	-0.422	-0.812	-0.882	-0.648	-0.729	-0.674	-0.576	-0.340	-0.252	-0.243	-0.028	-0.033	0.129	0.103	0.117	0.335	-0.882	-0.169
07/23/10	0.103	0.083	0.076	0.319	0.392	0.318	0.073	-0.124	-0.736	-0.825	-0.922	-0.921	-1.198	-1.120	-1.140	-1.023	-1.095	-0.917	-0.601	-0.206	-0.151	-0.064	0.002	-0.014	0.392	-1.198	-0.404
07/24/10	0.194	0.059	0.057	0.075	0.090	0.016	-0.033	-0.400	-0.572	-0.754	-0.522	-0.393	-0.789	-0.902	-1.068	-1.189	-0.516	0.263	0.326	0.523	0.434	0.406	0.367	0.203	0.523	-1.189	-0.172
07/25/10	0.270	0.575	0.402	0.507	0.256	0.190	0.150	-0.098	-0.319	-0.602	-0.959	-1.133	-1.327	-0.761	-0.657	-0.560	-0.665	-0.370	-0.291	-0.146	-0.066	-0.076	-0.056	-0.063	0.575	-1.327	-0.242
07/26/10	-0.043	-0.053	-0.056	-0.040	-0.044	-0.017	-0.068	-0.126	-0.257	-0.395	-0.733	-0.975	-0.940	-1.196	-0.824	-0.681	-0.588	-0.717	-0.412	-0.235	-0.118	-0.097	-0.085	-0.080	-0.017	-1.196	-0.366
07/27/10	-0.072	-0.051	-0.003	0.033	-0.003	-0.042	-0.028	-0.166	-0.666	INV	0.797	-6.657	-3.191	-3.249	-5.150	-3.157	-1.815	-1.534	-0.860	-0.379	-0.365	-0.332	-0.358	-0.111	0.797	-6.657	-1.190
07/28/10	-0.103	-0.040	0.055	0.336	0.190	0.242	-0.201	-1.750	-3.080	-1.842	-2.050	-2.586	-4.104	-3.831	-3.750	-5.274	2.534	2.061	1.656	1.770	0.989	0.692	0.652	0.726	2.534	-5.274	-0.696
07/29/10	0.549	0.580	0.494	0.605	0.581	0.592	0.239	-0.520	-1.105	-1.896	-3.389	-5.691	-3.434	-2.989	-4.543	-3.396	-1.363	-0.898	-0.730	-0.148	0.097	0.146	0.264	0.526	0.605	-5.691	-1.060
07/30/10	0.239	0.024	0.736	0.783	0.426	0.220	-0.313	-0.700	-2.742	-3.753	-2.522	-2.866	-2.686	-2.745	-4.404	-4.447	-2.621	-0.348	0.191	0.297	0.439	0.485	0.234	0.019	0.783	-4.447	-1.086
07/31/10	-0.039	0.024	-0.107	-0.072	-0.024	-0.254	-0.260	-0.475	-0.627	-1.423	-2.145	-4.138	-3.048	-3.321	-3.675	-2.868	0.251	1.318	0.625	0.600	1.429	1.391	0.636	0.211	1.429	-4.138	-0.666
Hourly Averages	0.313	0.288	0.342	0.348	0.250	0.284	0.101	-0.375	-0.788	-1.017	-1.173	-1.655	-1.563	-1.514	-1.675	-1.457	-0.765	-0.505	-0.290	-0.011	0.110	0.162	0.221	0.237			

Maximum Hourly Differential Temperature: 2.534 **Minimum Hourly Differential Temperature:** -6.657

Total Number of Observations: 743 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	23.1	23.3	23.2	23.3	23.2	23.2	23.5	23.2	23.8	25.0	25.8	26.7	27.5	28.6	29.0	29.2	29.1	28.5	28.0	27.1	26.3	25.6	25.5	24.9	29.2	23.1	25.7
08/02/10	24.5	24.5	25.1	25.3	25.2	24.4	24.1	24.9	26.6	28.2	28.9	29.4	30.6	31.5	31.9	32.3	32.4	31.9	31.7	31.1	30.8	29.8	29.4	29.1	32.4	24.1	28.5
08/03/10	28.9	28.9	28.5	28.0	28.2	28.1	27.1	28.2	29.2	30.6	32.0	32.8	33.6	34.2	34.5	34.9	34.9	34.9	34.8	34.1	33.1	32.2	31.6	31.1	34.9	27.1	31.4
08/04/10	31.0	31.0	30.8	29.1	29.3	29.5	29.4	30.0	31.6	32.8	33.6	34.5	35.3	35.9	36.1	36.4	36.6	36.6	36.2	35.4	34.2	33.5	33.4	32.1	36.6	29.1	33.1
08/05/10	32.2	31.4	31.0	30.8	29.6	29.1	29.5	29.2	30.6	32.5	34.2	35.1	35.9	36.7	37.0	37.3	37.3	37.0	36.8	35.9	34.5	33.1	32.3	32.1	37.3	29.1	33.4
08/06/10	31.6	30.9	30.3	29.5	29.2	28.9	28.9	29.5	30.7	32.1	32.6	33.5	34.0	34.3	34.8	35.2	35.2	35.1	34.7	34.2	33.2	32.0	31.5	31.1	35.2	28.9	32.2
08/07/10	30.1	29.1	26.6	26.1	26.1	25.9	25.7	25.5	26.2	26.4	26.9	27.6	28.4	29.8	30.8	31.4	31.7	31.3	31.4	30.9	30.5	30.1	29.2	27.3	31.7	25.5	28.5
08/08/10	25.6	23.8	23.7	24.4	24.2	24.1	23.8	24.6	25.5	26.8	27.5	28.6	29.7	30.3	31.4	31.7	32.5	32.5	32.1	30.9	29.9	29.8	28.9	28.5	32.5	23.7	27.9
08/09/10	28.2	28.1	27.3	26.3	26.4	25.7	25.7	25.4	26.7	29.1	30.2	30.9	31.7	32.1	32.4	32.9	33.1	33.3	33.2	32.7	31.8	30.9	30.1	30.1	33.3	25.4	29.8
08/10/10	29.7	29.5	28.4	28.7	27.3	27.0	27.0	27.8	29.0	30.4	31.8	33.0	33.8	34.4	34.8	35.3	35.3	35.3	34.7	33.9	33.7	32.3	32.2	31.8	35.3	27.0	31.5
08/11/10	31.2	30.8	29.8	29.5	28.7	28.5	28.4	29.0	30.0	30.9	32.1	33.4	34.6	35.7	35.8	35.9	36.0	35.8	35.5	34.8	34.4	33.4	32.2	31.7	36.0	28.4	32.4
08/12/10	31.1	30.9	30.6	30.1	29.9	29.5	29.0	29.0	30.7	31.9	33.5	34.4	35.2	35.7	36.0	36.3	36.5	36.4	35.9	35.1	34.5	33.4	32.9	31.8	36.5	29.0	32.9
08/13/10	31.7	31.4	30.6	30.4	30.1	29.1	29.0	29.9	31.2	32.2	33.1	34.4	35.3	35.9	36.3	36.6	36.6	36.5	35.9	35.0	34.7	33.7	33.1	31.9	36.6	29.0	33.1
08/14/10	31.8	31.2	31.5	31.2	30.6	30.2	29.9	30.1	30.8	31.5	32.2	33.3	34.8	36.0	36.7	37.0	37.1	36.7	36.1	34.9	34.1	33.2	32.8	32.6	37.1	29.9	33.2
08/15/10	31.7	31.2	30.2	29.5	28.9	29.3	28.6	28.5	29.6	30.3	31.6	33.2	34.6	35.7	36.6	36.7	36.7	36.9	36.5	34.2	34.0	32.9	32.1	31.0	36.9	28.5	32.5
08/16/10	29.4	29.1	28.1	28.7	28.8	24.4	25.6	26.3	27.3	29.2	29.9	30.9	32.1	32.9	33.4	33.9	33.7	33.6	33.1	32.5	31.1	29.7	30.8	30.8	33.9	24.4	30.2
08/17/10	30.3	29.7	29.4	28.6	27.8	27.7	27.4	27.7	29.6	31.5	32.5	33.4	34.3	34.4	35.1	34.4	32.8	27.5	24.8	25.9	25.1	25.6	25.2	23.6	35.1	23.6	29.3
08/18/10	23.8	25.3	26.6	25.9	23.6	23.4	24.5	25.4	26.9	29.3	30.6	31.5	32.4	32.9	33.3	33.6	33.7	33.6	33.2	32.3	31.5	30.9	30.7	29.1	33.7	23.4	29.3
08/19/10	28.6	29.0	28.5	28.0	28.3	28.3	28.2	28.9	30.1	31.7	32.8	33.7	34.5	35.3	35.5	35.8	36.0	35.7	35.3	34.3	33.9	33.3	31.7	31.9	36.0	28.0	32.1
08/20/10	30.8	30.9	31.6	30.7	30.1	30.0	28.7	29.3	30.4	31.4	32.5	33.8	34.6	35.6	36.3	36.5	36.6	36.5	35.7	34.5	33.7	33.6	33.4	32.5	36.6	28.7	32.9
08/21/10	31.9	30.4	30.1	29.3	28.2	27.7	27.2	27.5	28.3	29.7	31.1	32.3	33.0	33.7	34.3	34.6	34.7	34.3	34.0	33.6	32.0	29.4	21.9	22.3	34.7	21.9	30.5
08/22/10	24.6	26.5	27.5	26.7	25.3	25.4	25.4	25.9	27.4	28.4	29.6	30.5	31.3	32.1	32.5	32.7	32.8	32.8	32.6	31.9	31.3	30.8	29.6	29.8	32.8	24.6	29.3
08/23/10	29.3	29.1	28.4	28.7	28.8	29.2	28.1	28.9	30.3	31.8	33.1	33.9	34.8	35.4	35.9	36.3	36.5	36.5	36.0	35.1	34.3	33.2	32.6	31.7	36.5	28.1	32.4
08/24/10	31.9	30.9	30.8	30.3	29.2	29.1	29.9	30.3	31.6	32.5	33.7	34.8	35.8	36.5	37.5	36.4	31.8	33.3	31.5	30.1	29.1	27.7	26.4	26.4	37.5	26.4	31.6
08/25/10	26.6	27.5	28.0	27.5	27.2	27.1	27.0	27.2	27.6	28.5	29.0	29.8	30.8	31.2	31.7	32.1	32.2	32.1	31.7	30.9	30.3	29.7	29.4	29.3	32.2	26.6	29.3
08/26/10	29.1	28.8	28.4	28.1	28.1	27.9	27.7	27.8	28.4	29.0	29.4	30.1	30.1	30.8	31.0	31.1	31.3	31.4	30.9	29.6	28.2	27.9	27.6	27.1	31.4	27.1	29.2
08/27/10	28.0	27.2	26.9	28.0	27.9	25.5	25.3	25.9	26.6	27.5	28.4	28.8	28.9	28.8	28.0	28.7	28.2	28.3	27.8	25.3	24.8	25.5	25.3	24.6	28.9	24.6	27.1
08/28/10	25.4	24.8	24.8	24.6	24.5	24.3	24.0	24.2	25.4	26.3	27.1	28.1	28.9	30.1	30.7	31.3	31.1	29.4	28.9	28.3	25.9	24.8	25.2	25.3	31.3	24.0	26.8
08/29/10	25.8	24.2	24.9	24.1	23.8	23.5	22.9	23.8	25.8	26.7	27.5	28.5	29.2	26.8	30.1	29.5	30.3	31.1	26.6	27.4	27.1	26.5	26.2	25.6	31.1	22.9	26.6
08/30/10	25.3	24.9	24.7	24.4	23.7	22.2	21.9	22.9	23.8	24.5	25.6	26.6	27.5	29.2	30.1	30.5	31.0	30.9	30.1	29.5	28.6	28.1	27.4	26.9	31.0	21.9	26.7
08/31/10	26.4	26.2	26.2	26.3	26.0	25.7	25.1	25.5	26.4	26.5	27.2	28.2	29.2	30.2	30.9	31.6	31.7	31.6	31.2	30.4	30.0	29.0	28.6	27.8	31.7	25.1	28.2
Hourly Averages	28.7	28.4	28.1	27.8	27.4	26.9	26.7	27.2	28.3	29.5	30.5	31.5	32.3	33.0	33.6	33.8	33.7	33.5	32.8	32.0	31.2	30.4	29.6	29.1			

Maximum Hourly Temperature: 37.5 **Minimum Hourly Temperature:** 21.9 **Average Monthly Temperature:** 30.2

Maximum 24-Hour Mean: 33.4 **Minimum 24-Hour Mean:** 25.7

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

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	22.9	23.1	23.1	23.0	22.8	22.7	23.3	23.9	25.0	27.6	29.3	30.9	30.5	31.8	33.0	33.3	33.7	30.9	29.6	27.3	26.1	24.9	24.6	24.1	33.7	22.7	27.0
08/02/10	23.7	23.6	24.1	24.5	24.2	23.1	23.0	25.9	28.9	31.6	32.2	33.8	33.8	34.8	36.5	37.7	36.7	34.4	33.7	31.2	29.6	28.6	28.5	28.2	37.7	23.0	29.7
08/03/10	27.9	28.0	27.5	26.9	27.2	27.0	26.2	28.9	30.9	34.2	36.3	38.5	36.8	37.4	39.2	40.6	40.1	38.3	36.9	34.0	31.7	30.3	30.1	29.4	40.6	26.2	32.7
08/04/10	28.8	28.9	29.0	27.1	27.7	28.1	28.2	29.9	32.6	36.0	37.9	40.7	38.7	39.0	39.8	41.8	41.5	39.9	38.1	34.6	32.0	31.6	31.2	30.4	41.8	27.1	33.9
08/05/10	31.2	30.1	30.1	29.8	28.3	27.4	28.4	29.7	32.4	35.6	38.4	40.9	39.0	39.8	41.3	42.6	42.2	40.5	39.1	35.7	33.5	32.4	31.7	31.7	42.6	27.4	34.6
08/06/10	31.2	30.4	29.4	28.8	28.4	28.3	28.8	30.6	32.4	35.3	36.6	39.0	38.3	38.4	39.4	40.7	38.8	37.8	35.5	34.0	32.4	31.6	31.0	30.2	40.7	28.3	33.6
08/07/10	29.8	29.0	25.3	25.7	25.9	25.8	25.8	26.3	27.5	28.1	29.3	31.3	32.3	33.2	36.2	37.9	36.9	33.7	33.5	31.3	30.5	30.0	29.2	26.4	37.9	25.3	30.0
08/08/10	24.0	23.7	23.5	24.0	24.0	23.9	23.8	25.8	27.6	30.4	32.5	35.0	33.2	33.8	36.1	36.1	37.3	36.0	34.1	31.2	29.9	29.4	28.2	28.1	37.3	23.5	29.7
08/09/10	27.7	27.2	26.2	25.1	25.3	24.7	24.7	25.6	29.0	32.7	34.9	36.8	34.6	35.4	35.7	36.1	37.0	36.9	35.3	32.3	30.3	29.1	28.7	28.9	37.0	24.7	30.8
08/10/10	28.2	28.1	27.2	26.6	25.4	24.9	25.8	28.9	31.2	34.2	36.6	38.9	37.6	38.0	39.4	40.8	40.2	38.5	36.6	33.8	32.7	31.2	31.1	30.7	40.8	24.9	32.8
08/11/10	30.1	29.3	28.4	27.7	27.1	27.1	27.7	30.6	32.5	34.8	36.5	39.5	38.2	39.2	40.3	41.2	40.5	38.6	37.5	34.8	33.7	32.4	31.1	30.3	41.2	27.1	33.7
08/12/10	29.9	29.1	28.6	28.1	27.5	27.2	27.2	30.1	33.2	36.0	38.2	39.8	38.6	39.3	40.5	41.6	41.2	39.3	37.8	34.9	33.3	31.9	31.3	30.3	41.6	27.2	33.9
08/13/10	29.4	28.9	28.2	28.5	27.8	27.3	27.5	31.0	34.1	35.8	37.7	40.4	38.9	39.4	40.8	42.1	41.4	39.3	37.7	34.9	33.9	32.7	31.4	30.2	42.1	27.3	34.1
08/14/10	29.7	28.8	28.6	28.3	28.3	28.2	28.6	31.6	33.2	35.1	36.8	39.2	38.5	39.6	41.0	42.4	41.6	39.3	37.7	34.9	33.4	32.0	31.2	30.9	42.4	28.2	34.1
08/15/10	30.5	29.7	29.5	28.9	28.7	29.1	28.5	29.3	32.3	33.2	36.0	38.6	38.3	39.4	41.0	42.0	41.2	39.8	38.6	34.8	34.1	33.0	32.1	30.9	42.0	28.5	34.1
08/16/10	29.6	29.2	28.2	28.7	28.6	23.4	25.6	27.4	29.4	32.7	33.7	35.9	36.9	37.3	37.9	40.0	36.9	36.6	34.3	33.0	31.3	30.0	30.7	30.5	40.0	23.4	32.0
08/17/10	30.0	29.6	29.1	28.2	27.5	27.4	26.8	28.7	32.2	34.8	38.1	38.1	38.7	39.0	39.3	38.4	34.8	26.6	22.0	22.5	21.7	24.9	24.5	23.2	39.3	21.7	30.2
08/18/10	23.2	24.3	25.3	24.6	22.9	22.6	23.7	27.2	31.2	35.3	36.0	37.2	37.8	36.1	36.5	37.5	37.6	36.2	34.4	32.1	30.8	29.5	28.9	27.9	37.8	22.6	30.8
08/19/10	27.1	27.5	27.0	26.5	27.4	27.5	27.7	31.5	35.0	37.4	38.4	40.3	39.8	38.6	38.9	39.9	39.6	38.1	36.4	33.9	33.1	32.3	30.6	30.0	40.3	26.5	33.5
08/20/10	29.1	28.8	28.9	28.1	27.7	27.7	27.7	32.5	35.8	37.9	33.3	39.1	39.4	38.7	39.6	40.4	40.1	38.8	36.8	34.4	32.7	32.1	31.4	30.8	40.4	27.7	33.8
08/21/10	30.2	29.4	29.2	28.3	27.4	27.1	26.9	30.4	33.9	35.1	36.3	37.9	37.5	37.7	38.6	38.2	39.1	36.8	35.1	34.1	32.4	29.9	21.8	21.5	39.1	21.5	32.3
08/22/10	22.0	25.0	26.6	25.8	24.7	24.8	24.9	27.5	31.3	33.6	35.1	36.2	36.2	35.1	35.5	36.0	36.5	35.4	33.8	31.7	30.5	29.8	28.8	28.8	36.5	22.0	30.6
08/23/10	28.1	27.5	26.9	26.8	27.2	27.6	26.6	32.0	34.9	38.2	38.1	39.4	39.6	38.4	39.0	39.7	40.2	38.9	37.1	34.4	32.9	31.4	31.4	30.9	40.2	26.6	33.6
08/24/10	31.0	30.0	29.4	29.0	28.0	27.3	29.1	32.7	35.9	36.8	38.4	41.5	41.7	40.2	41.2	38.0	31.1	33.2	31.7	30.2	29.2	27.9	26.5	26.5	41.7	26.5	32.8
08/25/10	26.7	27.5	28.0	27.5	27.1	27.1	27.0	28.6	29.5	31.7	33.0	33.4	35.6	34.2	34.8	35.1	35.1	33.9	32.4	30.8	30.1	29.6	29.3	29.2	35.6	26.7	30.7
08/26/10	28.9	28.6	28.1	27.9	27.8	27.5	27.6	29.6	31.9	32.4	32.4	34.0	32.9	34.1	34.1	34.7	34.6	33.5	31.4	29.7	28.3	27.6	27.2	26.8	34.7	26.8	30.5
08/27/10	27.6	26.7	26.6	27.8	27.5	22.3	23.5	25.9	28.6	30.1	33.3	33.4	33.2	33.3	32.0	32.3	31.0	29.9	28.9	25.9	25.1	25.5	25.3	24.3	33.4	22.3	28.3
08/28/10	25.1	24.7	24.5	24.4	24.3	24.0	24.2	26.5	29.9	30.7	33.3	33.9	33.8	34.0	34.0	35.1	33.7	31.7	29.4	28.4	26.2	25.3	25.4	24.8	35.1	24.0	28.6
08/29/10	25.3	24.0	24.1	23.4	23.2	23.1	22.6	26.3	29.0	33.1	33.5	35.1	34.1	26.6	31.8	31.1	32.8	32.7	27.3	27.0	26.7	26.1	25.8	25.2	35.1	22.6	27.9
08/30/10	24.9	24.7	24.5	24.2	23.5	21.9	21.8	24.1	25.9	28.6	31.6	33.7	31.3	32.6	33.0	33.8	34.5	33.1	30.8	29.3	28.3	27.6	26.4	25.6	34.5	21.8	28.1
08/31/10	25.6	25.7	25.8	26.0	25.4	25.2	24.8	25.6	30.1	31.7	30.8	33.3	34.3	34.1	34.8	35.2	35.5	34.4	32.2	30.1	28.7	27.9	27.7	26.2	35.5	24.8	29.6
Hourly Averages	27.7	27.4	27.1	26.8	26.4	25.8	26.1	28.5	31.2	33.6	35.0	37.0	36.4	36.4	37.4	38.1	37.5	35.9	34.0	31.8	30.5	29.6	28.8	28.2			

Maximum Hourly Temperature: 42.6 **Minimum Hourly Temperature:** 21.5 **Average Monthly Temperature:** 31.6

Maximum 24-Hour Mean: 34.6 **Minimum 24-Hour Mean:** 27.0

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

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	0.157	0.260	0.170	0.363	0.414	0.460	0.190	-0.670	-1.192	-2.646	-3.575	-4.113	-3.000	-3.272	-4.078	-4.035	-4.635	-2.350	-1.626	-0.272	0.269	0.679	0.836	0.880	0.880	-4.635	-1.283
08/02/10	0.806	0.882	0.987	0.778	0.956	1.291	1.090	-1.024	-2.347	-3.436	-3.310	-4.400	-3.238	-3.291	-4.606	-5.378	-4.251	-2.465	-1.931	-0.017	1.213	1.130	0.902	0.965	1.291	-5.378	-1.196
08/03/10	0.995	0.900	0.957	1.099	0.985	1.073	0.826	-0.681	-1.752	-3.535	-4.295	-5.660	-3.224	-3.253	-4.655	-5.689	-5.190	-3.368	-2.087	0.096	1.469	1.845	1.540	1.709	1.845	-5.689	-1.246
08/04/10	2.248	2.093	1.777	1.979	1.589	1.367	1.201	0.157	-0.995	-3.147	-4.248	-6.223	-3.380	-3.107	-3.631	-5.446	-4.973	-3.276	-1.896	0.815	2.183	1.881	2.157	1.686	2.248	-6.223	-0.800
08/05/10	1.059	1.269	0.946	0.974	1.272	1.622	1.105	-0.535	-1.798	-3.025	-4.175	-5.773	-3.063	-3.083	-4.305	-5.265	-4.864	-3.508	-2.269	0.216	1.043	0.700	0.606	0.472	1.622	-5.773	-1.266
08/06/10	0.345	0.506	0.877	0.686	0.760	0.613	0.149	-1.114	-1.662	-3.231	-4.012	-5.461	-4.267	-4.063	-4.649	-5.498	-3.689	-2.725	-0.820	0.191	0.766	0.340	0.494	0.866	0.877	-5.498	-1.442
08/07/10	0.268	0.042	1.294	0.376	0.225	0.082	-0.102	-0.799	-1.225	-1.701	-2.447	-3.726	-3.882	-3.378	-5.353	-6.520	-5.197	-2.345	-2.140	-0.430	-0.037	0.104	-0.051	0.924	1.294	-6.520	-1.501
08/08/10	1.552	0.131	0.212	0.412	0.250	0.205	-0.007	-1.255	-2.150	-3.618	-5.044	-6.301	-3.530	-3.467	-4.692	-4.465	-4.764	-3.444	-2.066	-0.312	0.079	0.338	0.637	0.346	1.552	-6.301	-1.706
08/09/10	0.494	0.843	1.066	1.196	1.147	0.990	1.021	-0.196	-2.314	-3.613	-4.674	-5.939	-2.964	-3.305	-3.274	-3.108	-3.980	-3.591	-2.037	0.334	1.505	1.770	1.447	1.293	1.770	-5.939	-1.079
08/10/10	1.482	1.391	1.240	2.038	1.878	2.037	1.160	-1.071	-2.201	-3.779	-4.790	-5.850	-3.770	-3.538	-4.583	-5.516	-4.875	-3.240	-1.885	0.043	0.942	1.141	1.059	1.015	2.038	-5.850	-1.236
08/11/10	1.069	1.565	1.424	1.841	1.578	1.424	0.689	-1.592	-2.481	-3.852	-4.459	-6.136	-3.576	-3.490	-4.482	-5.295	-4.522	-2.749	-1.964	-0.003	0.669	0.989	1.080	1.342	1.841	-6.136	-1.289
08/12/10	1.263	1.796	2.004	2.021	2.393	2.290	1.803	-1.186	-2.556	-4.020	-4.697	-5.398	-3.478	-3.555	-4.403	-5.348	-4.676	-2.871	-1.860	0.243	1.259	1.419	1.600	1.562	2.393	-5.398	-1.016
08/13/10	2.232	2.486	2.369	1.908	2.307	1.806	1.437	-1.146	-2.876	-3.588	-4.557	-6.025	-3.626	-3.499	-4.461	-5.528	-4.827	-2.798	-1.758	0.106	0.792	1.046	1.739	1.742	2.486	-6.025	-1.030
08/14/10	2.154	2.427	2.956	2.832	2.287	1.950	1.330	-1.534	-2.362	-3.597	-4.569	-5.831	-3.667	-3.625	-4.302	-5.392	-4.469	-2.577	-1.584	-0.020	0.661	1.204	1.666	1.710	2.956	-5.831	-0.931
08/15/10	1.245	1.502	0.751	0.672	0.263	0.139	0.189	-0.803	-2.647	-2.874	-4.411	-5.435	-3.767	-3.687	-4.370	-5.299	-4.588	-2.923	-2.097	-0.608	-0.097	-0.095	-0.086	0.184	1.502	-5.435	-1.618
08/16/10	-0.202	-0.118	-0.071	-0.025	0.165	1.008	0.036	-1.034	-2.104	-3.582	-3.848	-5.087	-4.741	-4.355	-4.496	-6.084	-3.203	-2.998	-1.230	-0.478	-0.181	-0.243	0.098	0.277	1.008	-6.084	-1.771
08/17/10	0.263	0.128	0.278	0.405	0.294	0.284	0.533	-0.981	-2.572	-3.272	-5.572	-4.688	-4.388	-4.582	-4.258	-3.958	-1.921	0.915	2.783	3.462	3.408	0.710	0.740	0.382	3.462	-5.572	-0.900
08/18/10	0.669	1.056	1.252	1.371	0.724	0.817	0.771	-1.853	-4.372	-5.915	-5.452	-5.699	-5.350	-3.137	-3.266	-3.925	-3.895	-2.595	-1.212	0.141	0.692	1.432	1.766	1.130	1.766	-5.915	-1.452
08/19/10	1.516	1.527	1.529	1.546	0.874	0.741	0.553	-2.673	-4.875	-5.729	-5.605	-6.591	-5.228	-3.312	-3.346	-4.094	-3.594	-2.334	-1.090	0.315	0.814	1.028	1.129	1.847	1.847	-6.591	-1.461
08/20/10	1.649	2.129	2.737	2.560	2.424	2.301	0.958	-3.206	-5.390	-6.436	-0.749	-5.376	-4.726	-3.111	-3.292	-3.892	-3.498	-2.325	-1.063	0.030	1.031	1.421	2.043	1.733	2.737	-6.436	-0.919
08/21/10	1.738	1.014	0.950	0.913	0.763	0.586	0.293	-2.826	-5.537	-5.394	-5.176	-5.549	-4.529	-3.998	-4.283	-3.611	-4.431	-2.489	-1.017	-0.516	-0.388	-0.462	0.124	0.727	1.738	-5.549	-1.796
08/22/10	2.507	1.498	0.888	0.877	0.627	0.598	0.517	-1.587	-3.881	-5.246	-5.579	-5.700	-4.864	-3.023	-2.970	-3.378	-3.719	-2.576	-1.168	0.226	0.836	1.047	0.801	0.929	2.507	-5.700	-1.347
08/23/10	1.181	1.588	1.542	1.851	1.574	1.605	1.435	-3.089	-4.560	-6.393	-4.977	-5.473	-4.853	-3.033	-3.016	-3.464	-3.674	-2.356	-1.045	0.675	1.400	1.843	1.235	0.773	1.851	-6.393	-1.218
08/24/10	0.953	0.899	1.401	1.280	1.220	1.872	0.781	-2.327	-4.260	-4.346	-4.740	-6.678	-5.930	-3.663	-3.709	-1.562	0.621	0.091	-0.225	-0.164	-0.167	-0.146	-0.135	-0.161	1.872	-6.678	-1.212
08/25/10	-0.140	0.046	0.085	0.032	0.046	0.054	-0.032	-1.334	-1.875	-3.160	-3.984	-3.589	-4.759	-3.020	-3.053	-3.045	-2.938	-1.835	-0.747	0.061	0.118	0.091	0.085	0.094	0.118	-4.759	-1.367
08/26/10	0.150	0.230	0.278	0.262	0.283	0.421	0.092	-1.787	-3.472	-3.440	-3.010	-3.956	-2.786	-3.367	-3.098	-3.606	-3.269	-2.144	-0.456	-0.040	-0.158	0.302	0.369	0.336	0.421	-3.956	-1.328
08/27/10	0.391	0.437	0.291	0.256	0.332	3.270	1.816	-0.048	-2.012	-2.594	-4.925	-4.549	-4.278	-4.513	-3.980	-3.621	-2.797	-1.657	-1.102	-0.606	-0.287	-0.035	0.083	0.268	3.270	-4.925	-1.244
08/28/10	0.293	0.160	0.263	0.241	0.294	0.252	-0.199	-2.260	-4.452	-4.456	-6.170	-5.860	-4.809	-3.931	-3.264	-3.779	-2.612	-2.320	-0.478	-0.135	-0.340	-0.419	-0.143	0.491	0.491	-6.170	-1.818
08/29/10	0.482	0.215	0.832	0.628	0.576	0.390	0.269	-2.464	-3.221	-6.412	-6.007	-6.631	-4.859	0.157	-1.679	-1.564	-2.529	-1.628	-0.706	0.441	0.474	0.355	0.395	0.435	0.832	-6.631	-1.335
08/30/10	0.344	0.249	0.200	0.136	0.141	0.265	0.123	-1.262	-2.073	-4.103	-5.952	-7.030	-3.852	-3.437	-2.921	-3.234	-3.490	-2.188	-0.690	0.186	0.338	0.458	1.019	1.275	1.275	-7.030	-1.479
08/31/10	0.771	0.485	0.404	0.287	0.587	0.511	0.322	-0.040	-3.650	-5.260	-3.653	-5.111	-5.144	-3.898	-3.865	-3.618	-3.829	-2.802	-1.087	0.362	1.255	1.046	0.914	1.632	1.632	-5.260	-1.391
Hourly Averages	0.966	0.956	1.029	1.026	0.943	1.043	0.656	-1.362	-2.867	-4.045	-4.473	-5.479	-4.114	-3.414	-3.882	-4.330	-3.815	-2.435	-1.244	0.140	0.696	0.739	0.844	0.931			

Maximum Hourly Differential Temperature: 3.462 **Minimum Hourly Differential Temperature:** -7.030

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

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	27.3	27.3	27.0	26.1	25.9	25.4	25.7	26.7	28.6	30.1	30.9	31.7	32.4	33.2	34.0	34.2	34.3	34.0	33.3	32.4	31.9	31.2	29.3	28.8	34.3	25.4	30.1
09/02/10	28.9	28.4	28.3	27.9	28.2	27.5	27.7	26.7	29.1	31.0	32.6	33.7	34.7	35.5	36.0	36.2	36.4	36.0	35.1	34.1	33.8	32.2	31.6	30.9	36.4	26.7	31.8
09/03/10	31.0	31.1	29.4	30.6	29.3	29.3	29.9	30.0	31.1	32.5	33.5	34.1	34.8	35.7	36.2	36.6	36.6	36.1	35.7	33.7	32.6	32.1	32.2	31.5	36.6	29.3	32.7
09/04/10	31.3	30.7	29.3	29.0	29.4	28.2	27.3	28.0	29.2	30.3	31.3	32.9	33.9	35.0	35.7	35.8	36.0	35.8	35.5	34.5	33.8	33.0	32.0	31.3	36.0	27.3	32.0
09/05/10	31.4	32.1	31.5	30.5	29.9	29.6	29.2	29.4	30.0	31.4	32.5	33.2	34.0	34.7	35.2	35.3	35.1	35.1	34.4	33.3	32.9	32.3	31.1	30.4	35.3	29.2	32.3
09/06/10	30.1	29.5	27.7	27.7	27.4	26.8	26.9	27.2	28.1	28.9	29.9	30.9	31.8	32.6	32.8	29.6	27.1	28.2	28.6	29.1	29.5	29.2	28.0	27.9	32.8	26.8	29.0
09/07/10	27.5	27.3	26.6	27.4	26.2	25.9	24.9	25.4	26.9	28.1	29.2	30.2	30.8	31.7	32.2	32.7	32.6	31.1	28.2	27.5	27.6	27.9	27.3	26.6	32.7	24.9	28.4
09/08/10	26.3	25.9	25.3	24.9	25.5	25.3	24.9	25.3	26.2	26.7	27.4	28.2	28.8	30.6	29.6	31.1	31.7	31.3	30.5	29.3	27.9	27.1	26.2	25.3	31.7	24.9	27.5
09/09/10	24.8	24.4	23.9	23.7	23.5	23.3	22.1	23.1	24.7	25.7	26.7	27.6	28.1	28.3	29.0	29.4	29.4	29.2	28.4	27.2	26.2	25.3	24.9	24.7	29.4	22.1	26.0
09/10/10	23.4	23.5	22.7	22.2	21.3	20.9	20.4	21.5	23.5	24.7	25.7	26.6	27.5	28.4	28.9	28.9	28.6	28.5	27.9	27.2	26.8	25.7	25.1	24.7	28.9	20.4	25.2
09/11/10	24.3	24.3	24.3	23.8	23.1	23.4	23.1	23.5	24.8	27.1	28.8	29.7	30.8	31.3	31.9	31.9	31.5	30.5	29.4	28.9	28.3	26.6	26.6	27.0	31.9	23.1	27.3
09/12/10	26.1	25.4	26.1	26.0	25.5	25.4	25.1	25.5	26.9	28.5	31.1	32.3	33.0	33.6	33.8	34.1	33.8	33.1	31.9	31.1	30.4	29.6	28.8	29.3	34.1	25.1	29.4
09/13/10	29.0	27.8	27.8	27.4	27.6	27.1	26.9	27.1	29.2	30.7	32.0	32.9	33.7	34.3	34.9	35.3	35.2	35.0	33.8	32.7	32.3	31.6	31.2	29.7	35.3	26.9	31.0
09/14/10	29.5	29.9	29.9	30.0	29.0	28.7	28.1	28.1	28.2	29.9	31.0	32.3	33.2	33.8	34.3	34.6	34.6	34.1	33.0	32.2	31.6	31.5	29.9	29.9	34.6	28.1	31.1
09/15/10	29.2	29.7	29.4	29.0	28.0	27.4	27.6	27.7	29.2	30.7	32.3	33.4	33.9	34.1	34.4	34.3	34.1	34.0	33.3	32.7	31.8	30.3	30.1	29.0	34.4	27.4	31.1
09/16/10	29.0	29.1	28.4	28.2	28.0	27.1	27.7	28.3	30.5	32.3	32.9	33.4	34.2	35.0	35.2	35.1	35.0	34.6	33.5	32.3	31.7	31.0	30.4	29.9	35.2	27.1	31.4
09/17/10	28.1	29.3	27.8	28.9	28.8	27.4	27.2	28.1	29.2	30.8	32.1	33.8	34.9	35.2	35.4	35.8	35.5	35.3	34.0	33.1	32.9	32.3	29.9	30.4	35.8	27.2	31.5
09/18/10	29.7	29.4	28.8	29.8	29.6	29.3	29.2	29.5	30.9	32.1	33.4	34.8	36.0	36.3	36.8	37.2	37.0	36.5	35.1	33.9	33.9	32.6	32.2	32.2	37.2	28.8	32.8
09/19/10	32.4	32.8	30.9	31.0	31.1	30.6	30.0	29.5	31.0	31.9	33.0	34.2	35.1	36.0	36.4	36.6	36.2	35.9	35.3	34.7	33.7	33.1	32.6	32.0	36.6	29.5	33.2
09/20/10	31.6	31.1	30.8	30.3	29.7	29.3	29.0	29.0	29.7	30.5	31.0	31.4	32.0	33.5	34.3	34.5	34.7	34.5	33.8	33.0	32.4	31.3	30.8	29.4	34.7	29.0	31.6
09/21/10	28.8	28.1	27.3	26.7	27.1	27.1	26.6	26.2	27.5	28.3	29.3	30.4	31.3	32.0	32.2	32.7	32.4	32.3	31.5	30.4	29.8	28.8	26.9	26.4	32.7	26.2	29.2
09/22/10	26.5	26.4	25.9	23.5	23.8	23.4	22.9	22.6	22.5	22.8	22.7	23.7	25.1	26.0	26.7	27.2	27.5	27.7	27.2	26.5	23.6	23.0	23.3	23.2	27.7	22.5	24.7
09/23/10	23.2	23.2	22.9	22.1	21.4	21.5	20.8	20.9	22.4	23.7	25.1	26.6	27.4	28.4	28.9	29.2	29.4	29.3	28.5	27.8	27.1	25.3	25.8	24.8	29.4	20.8	25.2
09/24/10	24.7	24.1	24.4	23.8	23.8	24.0	23.7	24.3	25.2	27.7	29.1	29.9	30.7	31.3	32.0	32.2	32.3	32.1	30.9	30.8	28.6	29.0	30.3	30.5	32.3	23.7	28.1
09/25/10	30.5	29.7	29.5	28.6	27.2	27.3	27.6	28.0	28.9	29.6	30.7	31.7	33.0	33.7	33.8	33.9	33.7	33.7	33.3	32.4	32.3	32.0	32.0	31.8	33.9	27.2	31.0
09/26/10	31.4	30.2	29.4	29.4	28.5	27.8	27.1	27.6	28.8	29.9	30.6	31.5	32.2	32.7	33.2	33.4	33.5	33.3	32.7	32.0	31.3	30.1	29.6	29.5	33.5	27.1	30.6
09/27/10	29.0	28.3	28.4	27.7	27.9	27.4	26.9	26.9	28.2	29.1	30.4	31.9	33.1	34.0	34.5	35.0	34.9	34.5	33.9	32.6	31.9	31.4	30.7	30.0	35.0	26.9	30.8
09/28/10	29.6	28.8	28.1	28.1	27.0	27.1	26.8	27.6	28.6	29.9	30.8	31.8	32.6	33.7	34.2	34.3	34.0	32.8	31.6	30.7	29.7	29.6	29.7	29.7	34.3	26.8	30.3
09/29/10	29.8	28.6	27.5	26.3	26.4	26.1	26.3	26.2	27.6	28.9	30.9	32.4	33.3	34.1	34.7	35.0	34.6	33.9	32.8	32.0	31.4	30.7	30.2	30.1	35.0	26.1	30.4
09/30/10	29.4	29.1	29.3	27.6	27.3	27.2	27.1	27.2	29.5	31.5	33.5	34.9	35.4	36.0	36.7	37.1	36.6	36.2	35.2	34.3	34.2	33.8	33.2	32.3	37.1	27.1	32.3
Hourly Averages	28.4	28.2	27.6	27.3	26.9	26.6	26.3	26.6	27.9	29.2	30.3	31.4	32.3	33.0	33.5	33.6	33.5	33.1	32.3	31.4	30.7	30.0	29.4	29.0			

Maximum Hourly Temperature: 37.2 **Minimum Hourly Temperature:** 20.4 **Average Monthly Temperature:** 29.9

Maximum 24-Hour Mean: 33.2 **Minimum 24-Hour Mean:** 24.7

Total Number of Observations: 720 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	25.4	25.2	24.7	24.0	23.9	24.0	24.3	29.3	33.6	35.6	36.0	38.3	38.3	36.6	37.3	37.7	38.0	36.5	34.0	31.7	30.0	28.6	27.1	26.0	38.3	23.9	31.1
09/02/10	25.8	25.3	25.5	24.9	25.2	24.3	24.5	29.7	35.3	37.8	38.0	39.4	40.2	39.0	39.0	40.0	40.1	38.3	35.7	33.3	32.2	30.0	28.9	27.7	40.2	24.3	32.5
09/03/10	27.2	27.1	26.7	28.5	26.5	26.0	29.0	32.1	33.8	36.7	38.1	40.8	40.8	39.6	40.0	40.6	40.0	37.4	35.9	33.5	32.3	31.7	31.8	30.9	40.8	26.0	33.6
09/04/10	30.7	29.9	28.3	28.3	29.1	27.7	26.7	30.1	33.6	35.9	36.8	40.0	40.5	39.1	39.2	39.5	40.0	38.9	36.1	33.3	32.0	30.7	29.8	29.2	40.5	26.7	33.5
09/05/10	29.9	31.0	30.7	29.9	29.3	28.9	28.6	31.7	35.3	38.0	38.0	39.9	39.9	38.4	38.5	38.7	38.8	37.7	35.3	32.8	31.2	30.3	29.4	29.1	39.9	28.6	33.8
09/06/10	28.7	28.3	27.2	26.8	26.3	26.1	26.6	31.0	32.6	35.8	35.1	36.9	37.3	36.9	36.5	30.5	25.1	30.4	28.2	27.9	27.4	27.6	26.6	26.2	37.3	25.1	30.1
09/07/10	25.9	25.7	25.0	26.3	25.0	24.7	24.1	28.3	32.4	34.6	34.5	36.3	35.9	35.3	35.5	36.0	35.8	32.8	28.9	27.8	27.7	27.8	27.2	26.6	36.3	24.1	30.0
09/08/10	26.1	25.8	25.2	24.5	25.0	24.6	24.3	26.6	29.1	29.8	32.8	34.3	34.6	34.4	28.6	33.9	34.7	33.4	31.0	29.1	27.6	25.7	24.9	24.1	34.7	24.1	28.7
09/09/10	23.4	23.2	22.4	22.1	21.4	21.6	21.0	26.4	29.9	30.3	31.8	33.7	33.6	32.1	32.5	32.7	32.8	31.3	29.0	26.7	24.7	23.4	22.5	22.0	33.7	21.0	27.1
09/10/10	21.3	21.5	20.5	19.5	19.1	18.9	18.9	23.9	26.6	28.4	29.5	31.7	32.3	31.3	31.0	31.2	31.6	30.7	28.3	26.9	26.2	24.9	24.0	23.5	32.3	18.9	25.9
09/11/10	22.9	22.4	22.8	22.5	21.6	21.7	22.2	24.0	27.8	32.1	34.0	35.2	35.4	34.6	34.8	34.4	33.6	31.5	29.4	28.3	27.4	25.6	25.1	25.7	35.4	21.6	28.1
09/12/10	24.2	23.3	24.2	24.3	23.7	23.7	24.0	26.4	32.3	34.9	37.1	37.0	37.1	37.2	36.2	38.9	37.0	34.5	32.0	30.6	29.2	28.5	28.1	28.1	38.9	23.3	30.5
09/13/10	27.0	26.3	26.6	25.7	27.1	26.6	26.3	28.1	33.6	37.6	39.3	39.5	38.5	37.0	37.6	39.6	37.6	36.2	33.8	31.4	30.1	29.5	29.2	28.1	39.6	25.7	32.2
09/14/10	27.7	28.1	28.4	29.5	28.5	28.3	27.7	29.5	34.5	37.4	38.0	39.3	38.4	36.1	36.5	38.1	36.6	35.4	32.9	31.7	30.3	30.2	28.6	27.8	39.3	27.7	32.5
09/15/10	27.6	27.1	26.7	26.7	26.6	25.6	25.5	29.5	35.7	38.6	40.1	38.6	38.0	36.4	36.4	37.8	36.1	35.3	33.2	31.4	30.9	28.9	28.7	27.5	40.1	25.5	32.0
09/16/10	27.7	27.2	26.4	26.2	26.6	25.7	26.3	29.4	33.8	38.6	39.4	39.6	39.3	37.4	37.2	38.0	36.6	35.7	33.4	30.9	29.2	28.8	28.5	27.6	39.6	25.7	32.1
09/17/10	26.5	27.5	26.2	26.6	27.9	26.5	26.9	29.2	33.3	35.1	36.0	38.0	38.2	38.3	37.5	38.5	38.4	36.8	33.8	32.0	31.6	31.3	28.4	28.5	38.5	26.2	32.2
09/18/10	28.1	27.5	27.3	29.0	28.8	28.6	28.6	30.2	33.4	35.4	36.5	39.2	40.2	39.4	38.9	39.9	39.8	38.1	34.8	32.8	32.8	31.0	30.7	31.5	40.2	27.3	33.4
09/19/10	31.5	32.3	30.1	30.4	30.8	30.4	29.6	30.4	33.5	34.6	36.4	37.3	40.0	39.8	39.0	40.0	39.1	37.7	35.2	34.3	33.4	32.9	32.4	31.7	40.0	29.6	34.3
09/20/10	31.3	31.0	30.6	30.2	29.6	29.2	28.9	30.0	32.2	32.5	33.8	34.1	35.8	37.5	37.9	37.9	37.5	36.0	33.5	32.0	30.6	29.7	29.0	28.0	37.9	28.0	32.4
09/21/10	27.9	27.3	26.2	25.5	25.8	26.0	26.1	27.5	30.7	33.3	34.8	35.6	34.6	36.1	35.3	36.0	34.0	33.8	31.4	30.2	29.6	29.0	26.2	25.6	36.1	25.5	30.4
09/22/10	26.1	26.1	25.1	22.1	22.6	21.8	21.6	22.2	21.7	22.8	22.9	26.2	28.2	28.3	28.4	29.5	28.4	28.4	27.2	26.3	21.9	20.5	21.4	21.5	29.5	20.5	24.6
09/23/10	21.8	22.4	21.8	20.9	20.2	19.9	19.5	21.3	25.6	27.6	29.4	29.9	31.1	31.8	32.6	32.8	32.4	30.7	28.3	27.1	26.0	23.6	24.3	23.4	32.8	19.5	26.0
09/24/10	23.2	22.0	22.3	22.3	22.3	22.5	22.2	24.0	27.4	30.3	30.1	31.0	31.7	32.4	32.9	33.1	32.9	32.4	30.9	30.5	28.2	28.6	30.1	30.3	33.1	22.0	28.1
09/25/10	30.3	29.3	29.3	28.2	26.9	26.9	27.3	27.9	29.3	30.2	31.4	32.8	33.9	35.0	34.9	34.9	34.2	33.9	33.2	32.1	32.2	31.9	31.8	31.6	35.0	26.9	31.2
09/26/10	31.1	30.0	29.2	29.2	28.4	27.6	27.0	27.7	29.3	30.5	31.4	32.6	33.3	33.5	34.0	34.1	33.9	33.4	32.6	31.6	31.0	30.0	29.5	29.3	34.1	27.0	30.8
09/27/10	28.9	28.1	28.0	27.3	27.7	27.3	26.7	26.9	28.6	29.9	31.2	32.9	34.2	35.2	35.5	35.8	35.4	34.6	33.6	32.1	31.7	31.2	30.5	29.7	35.8	26.7	31.0
09/28/10	29.4	28.5	27.5	27.7	26.5	26.7	26.7	27.4	29.1	30.7	32.0	32.8	33.6	34.8	35.3	35.1	34.5	32.9	31.4	29.9	28.6	28.9	29.4	29.2	35.3	26.5	30.4
09/29/10	29.2	27.6	26.4	25.5	25.7	25.3	25.5	25.8	28.0	29.5	31.7	33.3	34.3	35.2	35.7	35.8	35.3	34.2	32.8	31.3	29.9	29.0	28.8	28.4	35.8	25.3	30.2
09/30/10	28.4	28.1	27.5	26.5	26.4	26.5	26.0	26.9	29.8	32.1	34.5	36.2	36.8	37.2	37.7	37.8	37.1	36.4	34.8	33.5	33.9	33.5	33.0	32.0	37.8	26.0	32.2
Hourly Averages	27.2	26.8	26.3	26.0	25.8	25.4	25.4	27.8	31.1	33.2	34.3	35.7	36.2	35.9	35.7	36.3	35.6	34.5	32.3	30.8	29.7	28.8	28.2	27.7			

Maximum Hourly Temperature: 40.8 **Minimum Hourly Temperature:** 18.9 **Average Monthly Temperature:** 30.7

Maximum 24-Hour Mean: 34.3 **Minimum 24-Hour Mean:** 24.6

Total Number of Observations: 720 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	1.886	2.111	2.322	2.079	2.032	1.439	1.399	-2.528	-4.996	-5.511	-5.093	-6.533	-5.900	-3.461	-3.239	-3.563	-3.753	-2.477	-0.734	0.724	1.932	2.562	2.205	2.804	2.804	-6.533	-1.012
09/02/10	3.123	3.035	2.849	3.031	2.986	3.124	3.125	-3.012	-6.184	-6.805	-5.424	-5.718	-5.553	-3.525	-3.020	-3.837	-3.662	-2.327	-0.542	0.753	1.599	2.138	2.665	3.135	3.135	-6.805	-0.752
09/03/10	3.787	4.005	2.760	2.159	2.814	3.224	0.892	-2.121	-2.713	-4.192	-4.615	-6.763	-6.049	-3.883	-3.745	-4.042	-3.462	-1.288	-0.153	0.120	0.289	0.384	0.364	0.614	4.005	-6.763	-0.901
09/04/10	0.580	0.734	0.955	0.752	0.312	0.584	0.670	-2.154	-4.366	-5.594	-5.498	-7.126	-6.647	-4.145	-3.558	-3.656	-3.936	-3.014	-0.572	1.256	1.820	2.340	2.104	2.082	2.340	-7.126	-1.503
09/05/10	1.480	1.087	0.762	0.584	0.619	0.684	0.643	-2.330	-5.303	-6.589	-5.562	-6.684	-5.929	-3.703	-3.352	-3.478	-3.701	-2.684	-0.895	0.476	1.738	1.920	1.645	1.388	1.920	-6.684	-1.549
09/06/10	1.448	1.243	0.552	0.903	1.107	0.677	0.341	-3.723	-4.573	-6.841	-5.167	-6.026	-5.443	-4.286	-3.683	-0.894	2.020	-2.173	0.331	1.190	2.118	1.653	1.399	1.673	2.118	-6.841	-1.090
09/07/10	1.599	1.555	1.563	1.077	1.141	1.178	0.791	-2.927	-5.542	-6.504	-5.289	-6.051	-5.037	-3.584	-3.317	-3.326	-3.213	-1.653	-0.706	-0.281	-0.145	0.059	0.019	-0.009	1.599	-6.504	-1.608
09/08/10	0.178	0.076	0.136	0.422	0.505	0.620	0.565	-1.332	-2.932	-3.153	-5.411	-6.113	-5.737	-3.800	1.033	-2.803	-2.922	-2.037	-0.561	0.163	0.360	1.428	1.248	1.205	1.428	-6.113	-1.203
09/09/10	1.379	1.182	1.419	1.609	2.121	1.696	1.116	-3.320	-5.205	-4.597	-5.095	-6.078	-5.450	-3.843	-3.542	-3.257	-3.402	-2.147	-0.620	0.561	1.415	1.944	2.379	2.699	2.699	-6.078	-1.127
09/10/10	2.183	2.026	2.292	2.675	2.211	2.011	1.536	-2.346	-3.052	-3.730	-3.805	-5.125	-4.741	-2.971	-2.105	-2.301	-3.036	-2.244	-0.391	0.367	0.622	0.791	1.110	1.196	2.675	-5.125	-0.701
09/11/10	1.476	1.983	1.523	1.281	1.533	1.664	0.910	-0.533	-3.047	-4.970	-5.212	-5.503	-4.539	-3.275	-2.833	-2.452	-2.070	-0.930	0.004	0.651	0.940	1.030	1.477	1.256	1.983	-5.503	-0.818
09/12/10	1.829	2.065	1.902	1.681	1.774	1.661	1.046	-0.925	-5.462	-6.303	-5.986	-4.642	-4.112	-3.538	-2.363	-4.754	-3.178	-1.417	-0.061	0.473	1.163	1.054	0.755	1.124	2.065	-6.303	-1.092
09/13/10	1.985	1.483	1.206	1.729	0.510	0.477	0.533	-0.989	-4.390	-6.861	-7.293	-6.669	-4.842	-2.716	-2.660	-4.326	-2.401	-1.266	-0.087	1.243	2.182	2.089	2.067	1.576	2.182	-7.293	-1.143
09/14/10	1.863	1.792	1.447	0.504	0.470	0.464	0.376	-1.462	-6.207	-7.482	-6.988	-7.025	-5.153	-2.310	-2.249	-3.479	-2.013	-1.330	0.067	0.500	1.325	1.274	1.289	2.118	2.118	-7.482	-1.342
09/15/10	1.597	2.525	2.621	2.365	1.413	1.825	2.149	-1.864	-6.564	-7.969	-7.755	-5.244	-4.114	-2.349	-1.952	-3.458	-1.964	-1.300	0.080	1.298	0.884	1.401	1.435	1.525	2.621	-7.969	-0.976
09/16/10	1.350	1.978	2.005	1.985	1.403	1.470	1.381	-1.102	-3.211	-6.302	-6.519	-6.178	-5.061	-2.374	-2.007	-2.944	-1.638	-1.151	0.073	1.421	2.467	2.175	1.946	2.255	2.467	-6.519	-0.691
09/17/10	1.559	1.774	1.606	2.259	0.890	0.972	0.319	-1.100	-4.051	-4.288	-3.947	-4.187	-3.310	-3.104	-2.012	-2.711	-2.949	-1.508	0.201	1.028	1.261	1.023	1.569	1.967	2.259	-4.288	-0.697
09/18/10	1.555	1.881	1.464	0.792	0.785	0.759	0.593	-0.694	-2.473	-3.317	-3.173	-4.375	-4.232	-3.110	-2.144	-2.674	-2.813	-1.550	0.302	1.167	1.103	1.551	1.505	0.682	1.881	-4.375	-0.684
09/19/10	0.897	0.418	0.769	0.602	0.307	0.264	0.369	-0.856	-2.540	-2.727	-3.372	-3.099	-4.875	-3.809	-2.673	-3.323	-2.903	-1.755	0.126	0.477	0.363	0.230	0.177	0.337	0.897	-4.875	-1.108
09/20/10	0.298	0.136	0.197	0.104	0.083	0.087	0.052	-0.960	-2.565	-2.059	-2.776	-2.711	-3.791	-4.041	-3.573	-3.338	-2.741	-1.489	0.219	1.006	1.785	1.607	1.772	1.394	1.785	-4.041	-0.888
09/21/10	0.908	0.837	1.089	1.164	1.266	1.060	0.517	-1.276	-3.275	-4.935	-5.501	-5.163	-3.323	-4.032	-3.079	-3.319	-1.585	-1.491	0.102	0.170	0.130	-0.137	0.717	0.732	1.266	-5.501	-1.184
09/22/10	0.384	0.273	0.836	1.386	1.138	1.654	1.267	0.393	0.804	0.002	-0.194	-2.468	-3.086	-2.340	-1.714	-2.268	-0.960	-0.704	0.003	0.180	1.709	2.517	1.902	1.703	2.517	-3.086	0.101
09/23/10	1.367	0.748	1.121	1.131	1.218	1.600	1.309	-0.364	-3.198	-3.900	-4.287	-3.300	-3.666	-3.467	-3.745	-3.662	-2.967	-1.453	0.220	0.680	1.084	1.694	1.422	1.405	1.694	-4.287	-0.792
09/24/10	1.519	2.046	2.057	1.506	1.575	1.434	1.500	0.277	-2.144	-2.622	-0.927	-1.081	-1.092	-1.059	-0.919	-0.911	-0.617	-0.371	-0.016	0.246	0.428	0.475	0.221	0.211	2.057	-2.622	0.072
09/25/10	0.245	0.376	0.228	0.387	0.320	0.407	0.320	0.065	-0.346	-0.587	-0.744	-1.102	-0.918	-1.372	-1.059	-0.981	-0.437	-0.186	0.041	0.246	0.102	0.153	0.151	0.182	0.407	-1.372	-0.188
09/26/10	0.209	0.173	0.187	0.199	0.131	0.153	0.179	-0.082	-0.470	-0.586	-0.879	-1.041	-1.083	-0.883	-0.818	-0.757	-0.477	-0.165	0.182	0.408	0.301	0.103	0.169	0.142	0.408	-1.083	-0.196
09/27/10	0.099	0.247	0.346	0.436	0.192	0.121	0.133	0.021	-0.475	-0.736	-0.839	-1.025	-1.159	-1.227	-0.977	-0.767	-0.529	-0.079	0.354	0.453	0.146	0.236	0.286	0.349	0.453	-1.227	-0.183
09/28/10	0.153	0.282	0.613	0.326	0.501	0.376	0.178	0.144	-0.482	-0.820	-1.130	-1.073	-1.009	-1.134	-1.115	-0.766	-0.523	-0.085	0.236	0.868	1.068	0.651	0.296	0.515	1.068	-1.134	-0.080
09/29/10	0.670	0.978	1.107	0.774	0.739	0.770	0.838	0.424	-0.447	-0.594	-0.827	-0.910	-1.054	-1.026	-0.992	-0.859	-0.642	-0.319	0.056	0.639	1.447	1.733	1.374	1.686	1.733	-1.054	0.232
09/30/10	0.994	1.052	1.809	1.140	0.945	0.682	1.092	0.318	-0.364	-0.633	-0.984	-1.304	-1.456	-1.168	-1.071	-0.721	-0.556	-0.208	0.439	0.867	0.288	0.256	0.206	0.259	1.809	-1.456	0.078
Hourly Averages	1.287	1.337	1.325	1.235	1.101	1.105	0.871	-1.212	-3.192	-4.040	-4.010	-4.344	-3.945	-2.851	-2.283	-2.654	-2.101	-1.360	-0.077	0.645	1.064	1.211	1.196	1.274			

Maximum Hourly Differential Temperature: 4.005 **Minimum Hourly Differential Temperature:** -7.969

Total Number of Observations: 720 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-D

HOURLY TEMPERATURE DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	30.2	29.9	29.8	29.3	28.6	28.0	28.2	29.2	30.3	32.1	34.0	35.3	36.5	37.1	38.3	38.0	37.0	35.9	35.8	35.4	34.4	32.6	31.7	32.3	38.3	28.0	32.9
07/02/10	32.9	32.9	32.7	32.1	31.3	30.3	30.3	30.9	31.9	33.3	34.6	35.9	37.2	36.7	35.2	37.7	39.0	38.8	38.3	36.7	34.8	33.4	32.4	31.4	39.0	30.3	34.2
07/03/10	30.5	29.7	28.9	28.7	28.7	27.7	27.4	28.4	29.2	30.3	31.6	33.0	33.9	34.4	35.0	35.4	35.2	34.3	33.8	32.4	30.7	29.8	28.9	27.9	35.4	27.4	31.1
07/04/10	27.0	26.1	25.2	24.7	24.1	23.4	23.7	25.5	26.1	27.4	28.5	29.6	30.5	31.7	32.5	33.0	33.0	33.1	32.7	31.5	30.5	29.9	28.6	27.4	33.1	23.4	28.6
07/05/10	26.8	26.3	25.4	25.3	24.8	23.6	24.2	26.3	27.7	28.9	29.9	31.0	32.1	32.9	33.8	34.1	34.1	33.9	33.4	32.1	30.7	29.7	29.4	28.1	34.1	23.6	29.3
07/06/10	26.9	26.6	25.7	25.1	25.2	24.2	24.0	27.3	28.1	30.0	31.4	32.6	33.7	34.7	35.2	35.3	35.3	34.9	34.3	33.0	31.8	31.5	29.2	28.7	35.3	24.0	30.2
07/07/10	27.8	27.4	27.9	27.3	26.9	26.0	26.2	28.3	29.6	31.1	33.1	34.0	35.7	36.4	36.6	36.6	36.6	36.5	35.9	34.0	32.5	32.4	31.5	31.4	36.6	26.0	31.7
07/08/10	30.9	30.6	30.4	29.8	29.5	28.9	28.6	29.8	30.8	32.6	33.5	34.3	35.3	36.4	37.2	37.9	38.8	37.1	35.6	34.5	33.5	33.0	32.4	31.7	38.8	28.6	33.0
07/09/10	31.8	31.5	31.4	31.0	30.9	30.5	30.3	30.7	31.9	32.6	34.0	35.0	35.9	35.8	36.8	36.9	36.2	36.4	36.2	35.4	33.4	33.4	33.0	32.5	36.9	30.3	33.5
07/10/10	32.3	31.4	30.4	30.3	31.0	30.7	30.7	30.8	32.1	33.1	34.5	35.9	36.8	37.8	36.8	31.3	26.2	29.1	29.3	30.1	29.9	31.3	31.1	29.6	37.8	26.2	31.8
07/11/10	29.0	28.6	28.1	27.7	27.6	27.1	26.9	28.1	29.2	30.5	32.1	33.0	33.7	34.7	35.3	35.6	35.8	35.0	31.9	31.5	30.9	30.1	29.7	28.8	35.8	26.9	30.9
07/12/10	28.6	28.0	27.3	26.8	26.6	26.4	26.3	26.6	28.2	29.7	30.8	31.9	32.9	34.0	34.6	35.1	35.2	35.3	34.9	33.9	32.8	32.5	32.2	30.9	35.3	26.3	30.9
07/13/10	29.7	29.2	29.2	28.4	27.8	26.7	27.7	30.0	30.5	31.4	32.6	33.8	35.0	35.8	36.1	36.6	36.8	36.9	36.2	34.7	34.2	33.4	32.6	32.3	36.9	26.7	32.4
07/14/10	31.0	30.8	30.1	29.4	29.3	29.7	29.4	30.2	31.3	32.8	33.4	34.3	35.7	36.3	33.3	29.3	31.7	33.9	33.7	33.9	32.8	32.8	31.5	31.3	36.3	29.3	32.0
07/15/10	30.6	30.7	29.9	29.1	29.1	28.7	30.0	31.9	33.7	34.1	35.5	36.8	38.1	38.7	39.1	39.3	39.4	38.6	36.1	35.6	34.9	34.0	32.8	32.6	39.4	28.7	34.1
07/16/10	31.3	30.9	31.2	30.6	30.1	29.9	29.7	29.9	30.7	32.2	33.2	32.9	33.3	35.1	35.9	36.4	37.4	37.7	36.2	34.6	32.2	28.8	27.5	28.8	37.7	27.5	32.3
07/17/10	27.4	27.8	27.7	27.2	27.3	27.0	27.9	29.9	30.8	32.8	33.3	34.3	35.3	35.8	36.8	37.5	37.5	37.6	37.0	35.9	35.1	34.2	29.9	29.3	37.6	27.0	32.3
07/18/10	28.7	27.4	27.8	27.9	27.1	27.4	27.2	29.0	30.8	32.2	33.3	33.7	34.4	34.8	35.7	36.0	36.2	36.4	36.1	33.8	34.4	34.4	33.1	32.2	36.4	27.1	32.1
07/19/10	31.5	31.3	30.7	30.5	30.7	30.2	30.3	30.7	31.6	32.3	34.0	34.9	35.9	36.7	37.5	37.6	37.6	37.5	37.0	35.8	34.8	34.6	34.2	32.4	37.6	30.2	33.8
07/20/10	31.7	30.3	28.2	26.3	26.9	27.3	27.8	30.2	32.0	32.8	33.9	34.6	35.6	36.1	36.7	36.8	36.9	36.5	35.7	34.9	34.0	33.1	32.7	32.1	36.9	26.3	32.6
07/21/10	31.6	30.7	30.1	29.9	30.2	28.7	29.2	30.6	31.3	31.9	32.1	32.5	32.9	31.2	33.4	34.3	34.6	34.7	34.0	32.8	31.9	30.9	30.6	28.3	34.7	28.3	31.6
07/22/10	24.6	23.1	22.8	22.2	21.8	22.6	23.7	23.8	24.5	25.4	26.2	27.6	28.7	30.0	30.6	31.1	30.4	29.5	27.1	25.6	25.2	26.3	26.0	25.7	31.1	21.8	26.0
07/23/10	25.9	24.9	25.3	24.6	24.2	24.8	24.6	26.0	27.8	28.7	30.1	30.4	30.6	30.7	31.5	31.7	32.3	32.2	31.3	30.1	28.6	28.0	27.6	27.0	32.3	24.2	28.3
07/24/10	26.8	26.8	26.8	26.8	26.2	26.3	26.5	27.6	29.0	29.9	30.4	30.9	32.4	33.3	34.3	34.9	30.7	25.3	24.6	25.8	26.6	27.0	27.4	27.7	34.9	24.6	28.5
07/25/10	27.2	26.3	26.3	26.4	27.0	27.0	27.1	27.8	28.7	30.0	31.8	32.6	33.7	33.5	32.9	33.7	31.4	30.6	29.7	28.9	28.4	27.8	27.6	27.4	33.7	26.3	29.3
07/26/10	26.5	26.3	26.4	26.3	26.4	26.3	26.2	26.1	26.9	27.5	29.3	30.1	30.9	31.9	32.4	33.1	32.9	31.9	31.1	29.5	28.4	27.9	27.8	28.0	33.1	26.1	28.7
07/27/10	27.6	27.8	27.7	27.2	27.0	27.1	27.0	27.2	28.4	29.5	32.0	34.7	32.9	34.0	34.3	32.7	31.0	31.3	31.1	29.7	27.5	26.0	25.0	25.7	34.7	25.0	29.3
07/28/10	25.6	25.4	25.2	24.9	24.7	24.2	25.3	26.0	27.7	27.4	28.1	29.2	31.1	32.3	32.5	33.8	27.5	22.8	24.8	25.8	26.4	25.3	25.5	25.8	33.8	22.8	27.0
07/29/10	26.5	25.9	24.7	24.7	25.4	25.2	25.4	26.2	26.8	27.6	29.0	30.9	31.7	32.5	33.3	30.0	27.6	26.7	27.0	26.1	25.9	25.9	25.9	25.8	33.3	24.7	27.4
07/30/10	25.7	25.4	22.8	21.9	21.8	21.5	22.1	23.1	24.9	27.0	26.8	26.8	27.8	28.4	29.7	30.3	30.0	29.1	28.2	27.3	27.4	26.3	26.4	24.8	30.3	21.5	26.1
07/31/10	23.7	22.6	22.3	22.1	22.3	22.1	22.6	22.5	22.8	22.8	23.0	24.5	24.6	26.3	26.9	26.5	22.9	23.7	23.2	23.0	22.9	22.6	22.8	22.5	26.9	22.1	23.4
Hourly Averages	28.7	28.1	27.7	27.2	27.1	26.8	27.0	28.1	29.2	30.3	31.5	32.5	33.4	34.1	34.5	34.5	33.8	33.3	32.6	31.8	30.9	30.3	29.6	29.0			

Maximum Hourly Temperature: 39.4 **Minimum Hourly Temperature:** 21.5 **Average Monthly Temperature:** 30.5

Maximum 24-Hour Mean: 34.2 **Minimum 24-Hour Mean:** 23.4

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

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	22.8	23.0	22.9	22.9	22.7	22.6	23.0	23.1	23.9	25.7	26.4	27.3	27.9	29.1	29.8	29.8	29.7	28.8	28.1	26.8	25.9	24.8	24.7	24.2	29.8	22.6	25.7
08/02/10	23.8	23.8	24.1	24.6	24.4	23.6	23.2	25.5	27.7	29.1	29.4	30.1	31.7	32.6	32.8	33.1	32.9	32.1	32.0	30.8	29.8	28.8	28.4	28.3	33.1	23.2	28.4
08/03/10	28.0	28.0	27.7	27.0	27.3	27.1	26.4	28.3	29.6	31.6	32.9	33.7	34.4	35.1	35.4	35.7	35.7	35.5	35.1	33.7	32.2	30.7	30.5	29.8	35.7	26.4	31.3
08/04/10	29.8	29.6	29.6	27.5	28.2	28.5	28.6	29.8	31.8	33.6	34.5	35.6	36.2	36.6	36.7	37.1	37.1	37.0	36.4	34.8	32.5	32.3	32.2	31.1	37.1	27.5	32.8
08/05/10	31.4	30.5	30.3	30.0	28.7	28.1	28.6	29.2	31.0	33.3	35.0	36.0	36.7	37.5	37.8	38.1	37.9	37.6	37.3	35.5	33.6	32.5	31.7	31.6	38.1	28.1	33.3
08/06/10	31.1	30.4	29.6	28.9	28.5	28.3	28.4	29.3	30.8	32.6	33.3	34.4	34.7	35.1	35.5	36.0	35.6	35.5	34.6	33.8	32.5	31.5	31.0	30.4	36.0	28.3	32.2
08/07/10	29.6	28.6	26.1	25.6	25.6	25.4	25.3	25.4	26.2	26.6	27.1	28.3	29.2	30.7	31.9	32.6	32.5	31.6	31.7	30.7	30.1	29.8	28.9	26.9	32.6	25.3	28.6
08/08/10	24.9	23.4	23.2	23.9	23.8	23.7	23.4	24.5	25.8	27.5	28.4	29.8	30.4	31.2	32.4	32.3	33.3	33.2	32.4	30.6	29.5	29.3	28.2	28.0	33.3	23.2	28.0
08/09/10	27.7	27.4	26.4	25.4	25.5	25.0	24.7	25.2	27.7	30.4	31.2	31.9	32.2	32.7	33.0	33.2	33.6	34.2	33.7	32.2	30.8	29.7	28.9	29.3	34.2	24.7	29.7
08/10/10	28.6	28.7	27.6	27.0	26.2	25.8	25.9	28.0	29.9	31.4	33.0	34.1	34.7	35.3	35.8	36.1	36.0	35.7	34.9	33.5	32.9	31.4	31.3	31.0	36.1	25.8	31.4
08/11/10	30.5	29.8	28.8	28.1	27.4	27.4	27.6	29.6	30.7	31.9	33.1	34.4	35.6	36.5	36.7	36.7	36.6	36.3	35.7	34.4	33.8	32.5	31.3	30.6	36.7	27.4	32.3
08/12/10	30.2	29.5	29.1	28.4	27.8	27.5	27.4	29.8	31.6	33.1	34.8	35.1	35.9	36.5	36.8	37.1	37.1	36.8	36.1	34.7	33.7	32.4	31.9	30.9	37.1	27.4	32.7
08/13/10	30.2	30.0	29.0	28.9	28.1	27.9	28.0	30.1	32.5	33.1	34.3	35.6	36.3	36.9	37.2	37.4	37.2	36.9	36.0	34.6	34.1	33.1	32.2	30.9	37.4	27.9	32.9
08/14/10	30.8	29.8	29.7	29.0	28.8	28.8	29.0	30.9	31.6	32.2	33.0	34.3	35.7	36.9	37.6	37.8	37.7	37.0	36.2	34.5	33.5	32.2	31.6	31.2	37.8	28.8	32.9
08/15/10	30.7	30.0	29.6	29.0	28.5	28.9	28.2	28.5	30.3	30.7	32.6	34.1	35.5	36.6	37.5	37.5	37.3	37.3	36.8	34.0	33.6	32.5	31.7	30.6	37.5	28.2	32.6
08/16/10	29.0	28.7	27.7	28.3	28.4	23.9	25.1	26.2	27.4	29.7	30.1	31.4	33.0	33.8	34.2	34.9	34.0	34.0	33.0	32.2	30.8	29.3	30.2	30.3	34.9	23.9	30.2
08/17/10	29.8	29.3	28.9	28.1	27.3	27.2	26.7	28.0	30.5	32.2	33.7	34.0	35.4	35.4	36.0	34.9	33.0	27.2	24.2	25.4	24.5	25.1	24.7	23.2	36.0	23.2	29.4
08/18/10	23.2	24.5	25.9	25.1	23.0	22.4	23.7	25.0	26.9	30.1	31.5	32.3	33.4	33.8	34.0	34.3	34.3	34.1	33.3	31.8	31.0	29.7	29.5	28.3	34.3	22.4	29.2
08/19/10	27.6	27.8	27.6	27.0	27.6	27.7	27.7	29.0	30.6	32.6	33.8	34.7	35.4	36.2	36.3	36.5	36.5	36.1	35.4	33.7	33.3	32.7	31.0	30.9	36.5	27.0	32.0
08/20/10	29.9	29.5	29.9	29.3	28.6	28.4	27.9	29.7	31.2	32.6	33.1	34.6	35.3	36.3	37.1	37.2	37.1	36.8	35.7	34.0	33.0	32.6	31.9	31.5	37.2	27.9	32.6
08/21/10	30.9	29.7	29.4	28.6	27.6	27.1	26.8	27.7	29.2	30.4	31.9	33.1	33.7	34.5	35.2	35.3	35.4	34.6	34.0	33.4	31.7	29.1	21.5	21.8	35.4	21.5	30.5
08/22/10	24.0	25.9	26.9	26.0	24.7	24.8	24.9	25.7	27.5	28.8	30.1	31.1	32.0	32.8	33.3	33.4	33.5	33.4	32.8	31.5	30.6	30.0	29.0	29.0	33.5	24.0	29.2
08/23/10	28.5	28.0	27.3	27.6	27.7	28.3	27.2	29.3	30.9	32.6	33.8	34.6	35.5	36.1	36.6	37.0	37.2	37.0	36.0	34.5	33.3	31.9	31.8	30.9	37.2	27.2	32.2
08/24/10	31.2	30.3	29.9	29.4	28.5	28.0	29.3	30.2	32.0	32.7	34.3	35.7	36.5	37.4	38.7	36.5	31.3	32.9	31.1	29.7	28.6	27.3	26.0	26.0	38.7	26.0	31.4
08/25/10	26.2	27.1	27.6	27.1	26.7	26.7	26.6	27.0	27.5	28.6	29.2	29.9	31.3	31.5	32.1	32.3	32.2	32.1	31.4	30.5	29.8	29.3	29.0	28.9	32.3	26.2	29.2
08/26/10	28.6	28.3	27.9	27.7	27.6	27.4	27.2	27.6	28.5	29.2	29.6	30.4	30.1	31.1	31.4	31.6	31.6	31.5	30.7	29.3	27.8	27.5	27.1	26.5	31.6	26.5	29.0
08/27/10	27.3	26.7	26.3	27.5	27.4	25.0	24.7	25.4	26.5	27.7	29.1	29.5	29.5	29.7	28.8	29.6	28.5	28.3	27.7	25.1	24.4	25.1	24.9	24.1	29.7	24.1	27.0
08/28/10	24.9	24.4	24.4	24.2	24.1	23.8	23.6	24.3	25.8	26.6	28.0	29.0	29.7	30.8	31.3	32.0	31.4	29.4	28.6	27.9	25.5	24.5	24.8	24.6	32.0	23.6	26.8
08/29/10	25.3	23.8	24.1	23.5	23.3	23.0	22.4	23.9	25.8	27.3	28.1	29.1	29.7	26.7	30.2	29.6	30.3	31.1	26.3	26.9	26.7	26.0	25.7	25.1	31.1	22.4	26.4
08/30/10	24.8	24.5	24.3	24.0	23.1	21.7	21.5	22.7	23.9	24.7	26.1	27.4	27.8	29.8	30.6	31.0	31.6	31.1	29.9	29.0	28.1	27.5	26.8	26.0	31.6	21.5	26.6
08/31/10	25.8	25.6	25.7	25.9	25.5	25.1	24.5	25.1	27.0	27.5	27.6	29.1	30.0	31.1	31.8	32.3	32.4	32.2	31.2	30.0	29.2	28.3	27.9	26.8	32.4	24.5	28.2
Hourly Averages	28.0	27.6	27.3	26.9	26.5	26.1	26.0	27.2	28.8	30.2	31.3	32.3	33.1	33.7	34.3	34.5	34.2	33.8	32.8	31.6	30.5	29.7	28.9	28.3			

Maximum Hourly Temperature: 38.7 **Minimum Hourly Temperature:** 21.5 **Average Monthly Temperature:** 30.2

Maximum 24-Hour Mean: 33.3 **Minimum 24-Hour Mean:** 25.7

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

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	26.0	26.0	25.8	24.8	24.9	24.6	24.9	26.7	29.3	30.8	31.6	32.7	33.4	34.1	34.8	35.1	34.9	34.4	33.2	31.9	30.6	29.7	28.2	27.5	35.1	24.6	29.8
09/02/10	27.2	26.6	26.6	26.5	26.5	25.9	25.8	26.7	30.2	32.2	33.7	34.4	35.6	36.6	36.8	37.1	37.2	36.3	34.9	33.6	33.0	31.1	30.5	29.5	37.2	25.8	31.4
09/03/10	29.1	29.1	28.2	29.5	27.6	27.3	29.3	29.8	31.0	32.8	34.0	34.8	35.5	36.4	36.7	37.2	36.9	36.1	35.4	33.2	32.1	31.6	31.7	31.0	37.2	27.3	32.3
09/04/10	30.7	30.1	28.6	28.4	29.0	27.7	26.7	27.8	29.6	30.9	32.1	34.0	34.8	36.0	36.6	36.8	36.8	36.8	35.5	33.7	32.6	31.3	30.3	29.9	36.8	26.7	31.9
09/05/10	30.4	31.4	30.9	30.0	29.4	29.1	28.7	29.4	30.9	32.6	33.2	34.2	35.0	35.7	35.9	36.1	35.8	35.6	34.4	32.9	31.7	31.1	29.9	29.5	36.1	28.7	32.2
09/06/10	29.2	28.6	27.2	27.0	26.4	26.1	26.3	27.9	28.9	30.3	30.9	31.8	32.7	33.6	33.2	29.7	26.8	28.9	28.1	28.3	28.0	28.3	27.1	27.0	33.6	26.1	28.8
09/07/10	26.3	26.2	25.6	26.6	25.4	25.1	24.3	25.8	27.6	29.2	30.2	31.3	31.7	32.7	33.2	33.5	33.1	31.1	28.0	27.2	27.2	27.5	26.8	26.2	33.5	24.3	28.4
09/08/10	25.9	25.5	24.9	24.4	24.9	24.6	24.2	25.2	26.6	27.0	28.1	28.9	29.6	31.4	29.7	31.8	32.2	31.5	30.2	28.8	27.4	26.3	25.5	24.5	32.2	24.2	27.5
09/09/10	23.9	23.7	23.0	22.6	21.8	22.0	21.3	23.7	25.3	26.2	27.3	28.4	29.1	29.1	29.7	30.1	30.0	29.4	28.1	26.7	25.3	24.0	23.0	22.7	30.1	21.3	25.7
09/10/10	22.1	22.3	21.2	20.5	19.6	19.6	19.5	21.5	24.6	25.9	26.5	27.6	28.6	29.5	29.7	29.7	29.4	29.1	27.7	26.7	26.1	25.0	24.1	23.6	29.7	19.5	25.0
09/11/10	23.1	22.6	22.9	22.6	21.8	21.7	22.1	23.3	25.4	28.5	29.7	30.8	31.8	32.3	32.8	32.7	31.9	30.6	29.1	28.3	27.5	25.7	25.3	25.9	32.8	21.7	27.0
09/12/10	24.6	23.6	24.6	24.6	24.0	23.9	24.0	25.2	27.6	29.8	32.2	33.5	34.1	34.8	34.4	35.0	34.6	33.3	31.7	30.7	29.4	28.6	28.1	28.3	35.0	23.6	29.2
09/13/10	27.2	26.5	26.9	26.0	27.0	26.4	26.2	26.9	29.7	31.5	33.1	33.9	34.7	35.1	35.9	36.1	35.9	35.1	33.4	31.8	30.6	30.1	29.7	28.6	36.1	26.0	30.8
09/14/10	28.0	28.4	28.6	29.3	28.4	28.0	27.4	27.9	29.0	31.0	32.0	33.4	34.3	34.6	35.0	35.3	35.1	34.3	32.6	31.7	30.7	30.5	29.0	28.3	35.3	27.4	31.0
09/15/10	27.9	27.7	27.3	27.2	26.9	25.9	25.9	27.6	30.2	32.0	33.4	34.1	34.5	34.9	35.0	35.0	34.8	34.3	32.8	31.6	31.0	29.2	29.1	27.8	35.0	25.9	30.7
09/16/10	27.9	27.6	26.8	26.5	26.8	25.9	26.6	28.0	31.0	33.5	33.9	34.4	35.3	35.9	35.8	35.6	35.4	34.8	33.0	31.4	29.6	29.4	29.0	28.1	35.9	25.9	30.9
09/17/10	26.8	27.8	26.6	27.1	28.0	26.5	26.6	27.9	30.0	31.4	32.8	34.9	35.6	35.9	36.2	36.4	36.0	35.5	33.6	32.2	31.7	31.4	28.5	28.6	36.4	26.5	31.2
09/18/10	28.3	27.7	27.5	28.9	28.8	28.5	28.5	29.1	31.2	32.6	34.0	36.0	37.0	37.3	37.7	38.2	37.7	36.8	34.7	32.8	32.9	31.2	30.7	31.4	38.2	27.5	32.5
09/19/10	31.5	32.2	30.1	30.3	30.6	30.1	29.4	29.2	31.1	32.1	33.6	34.8	36.1	36.8	37.0	37.3	36.4	35.9	34.9	34.2	33.2	32.6	32.1	31.5	37.3	29.2	33.0
09/20/10	31.0	30.6	30.3	29.8	29.3	28.8	28.5	28.8	29.8	30.6	31.4	31.7	32.7	34.4	35.2	35.6	35.4	34.8	33.4	32.2	31.1	30.1	29.5	28.4	35.6	28.4	31.4
09/21/10	28.1	27.4	26.3	25.6	25.9	26.1	26.0	26.5	28.3	29.4	30.4	31.8	32.2	33.4	32.9	33.6	32.6	32.5	31.1	30.0	29.4	28.5	26.5	25.7	33.6	25.6	29.2
09/22/10	26.0	26.0	25.5	23.0	23.2	22.9	22.0	22.1	22.2	22.7	22.7	24.2	25.5	26.1	26.7	27.4	27.3	27.6	26.8	26.0	22.9	22.4	22.8	22.8	27.6	22.0	24.4
09/23/10	22.5	22.6	22.1	21.3	20.3	20.0	19.7	20.8	23.5	24.5	26.0	27.4	28.5	29.1	29.9	30.1	30.4	29.8	28.0	27.2	26.2	23.5	24.5	23.6	30.4	19.7	25.1
09/24/10	23.6	22.6	22.9	22.6	22.6	22.8	22.1	23.6	25.8	28.5	30.2	31.2	31.6	32.4	32.9	33.3	33.4	32.3	30.5	30.1	27.8	28.1	29.7	29.9	33.4	22.1	27.9
09/25/10	29.9	29.0	28.9	27.9	26.5	26.5	26.9	27.6	29.0	29.7	30.9	32.4	33.8	34.4	34.5	34.4	34.0	33.8	32.9	31.8	31.8	31.4	31.4	31.2	34.5	26.5	30.9
09/26/10	30.7	29.7	28.8	28.8	28.0	27.3	26.6	27.3	29.0	30.0	31.0	32.2	33.0	33.1	33.5	33.9	34.0	33.6	32.3	31.3	30.6	29.6	29.1	28.9	34.0	26.6	30.5
09/27/10	28.5	27.7	27.6	26.9	27.3	26.9	26.3	26.6	28.5	29.6	30.7	32.6	34.1	35.1	35.3	35.4	35.1	34.3	33.3	31.8	31.1	30.8	30.1	29.3	35.4	26.3	30.6
09/28/10	29.0	28.2	27.1	27.3	26.2	26.3	26.3	27.2	29.1	30.9	32.0	32.7	33.6	34.7	35.2	34.9	34.5	32.6	31.1	29.5	28.2	28.5	29.0	28.9	35.2	26.2	30.1
09/29/10	28.9	27.4	26.0	25.1	25.3	25.0	25.2	25.9	29.0	30.0	32.1	33.3	34.3	35.0	35.6	35.8	35.1	34.2	32.3	30.9	29.6	28.6	28.5	28.1	35.8	25.0	30.0
09/30/10	28.1	27.7	27.1	26.1	26.0	26.2	25.7	26.9	29.6	32.1	34.5	35.7	36.0	36.7	37.1	37.3	37.0	36.6	34.5	33.1	33.5	33.2	32.7	31.6	37.3	25.7	31.9
Hourly Averages	27.4	27.1	26.5	26.2	25.9	25.6	25.4	26.4	28.4	30.0	31.1	32.3	33.2	33.9	34.2	34.3	34.0	33.4	31.9	30.7	29.8	29.0	28.4	27.9			

Maximum Hourly Temperature: 38.2 **Minimum Hourly Temperature:** 19.5 **Average Monthly Temperature:** 29.7

Maximum 24-Hour Mean: 33.0 **Minimum 24-Hour Mean:** 24.4

Total Number of Observations: 720 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-E

HOURLY RELATIVE HUMIDITY DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	26.6	27.4	28.2	29.8	33.4	36.3	34.8	33.5	31.6	27.6	23.9	22.8	19.6	17.6	13.6	17.6	17.7	19.9	18.1	19.7	23.7	27.4	25.6	23.8	36.3	13.6	25.0
07/02/10	23.0	23.6	24.6	25.5	29.2	33.1	33.3	33.2	30.5	27.9	25.7	22.5	19.3	25.1	22.3	13.5	10.9	10.6	11.1	12.3	14.5	24.9	26.5	22.6	33.3	10.6	22.7
07/03/10	17.0	20.7	21.1	22.9	22.9	22.1	20.2	21.4	22.3	20.9	19.2	17.0	14.1	13.2	11.1	9.8	13.2	13.7	12.1	16.7	18.8	20.0	22.8	25.4	25.4	9.8	18.3
07/04/10	25.9	29.5	32.4	27.0	31.9	35.1	32.2	32.2	30.7	27.6	24.7	22.7	19.8	16.5	14.8	17.3	16.9	15.8	17.6	18.2	18.0	18.3	21.7	21.6	35.1	14.8	23.7
07/05/10	21.5	23.0	27.0	28.2	30.4	31.1	24.4	22.7	18.2	15.6	15.3	13.5	13.9	13.9	14.1	13.5	12.5	12.6	12.7	14.1	16.1	17.5	14.7	19.0	31.1	12.5	18.6
07/06/10	19.4	19.2	20.1	22.8	25.8	27.9	25.5	23.5	20.5	17.8	15.5	15.5	13.4	12.3	12.0	12.0	12.0	12.4	12.7	12.9	13.5	13.1	15.4	16.6	27.9	12.0	17.2
07/07/10	16.3	14.9	14.3	15.9	18.2	21.0	20.3	17.1	16.9	14.3	15.0	13.1	12.1	14.4	11.4	11.4	11.2	11.7	12.4	18.9	18.9	18.8	20.3	19.9	21.0	11.2	15.8
07/08/10	21.4	22.0	23.4	24.4	26.5	29.0	29.0	28.7	26.0	24.7	22.7	20.6	18.8	17.0	15.9	14.9	13.1	18.2	19.1	21.9	21.7	25.1	25.8	25.9	29.0	13.1	22.3
07/09/10	24.6	25.9	27.5	28.0	29.1	31.3	32.1	31.6	30.4	28.0	25.4	24.0	23.3	23.0	19.9	20.7	19.9	19.7	20.0	25.6	25.8	26.2	28.5	26.6	32.1	19.7	25.7
07/10/10	29.8	30.3	35.5	29.8	30.5	31.1	31.5	31.7	30.5	29.2	25.3	23.9	22.1	21.6	22.9	50.0	40.3	38.9	44.5	39.6	41.1	34.7	34.7	39.0	50.0	21.6	32.8
07/11/10	40.4	41.9	46.2	44.7	48.3	50.7	49.4	47.5	42.9	31.5	29.0	25.8	24.2	24.1	23.5	20.9	22.4	30.5	30.4	28.9	30.9	36.6	36.2	36.7	50.7	20.9	35.1
07/12/10	40.8	46.5	50.4	51.4	52.1	52.7	53.5	50.0	43.4	38.9	34.8	32.4	29.4	27.3	24.8	23.6	23.5	23.4	22.9	25.5	26.1	26.6	27.5	30.8	53.5	22.9	35.7
07/13/10	32.5	32.8	32.2	32.7	42.7	40.1	33.8	28.7	28.3	27.8	23.7	23.7	23.8	22.4	21.5	19.8	19.0	20.4	21.6	22.9	23.3	24.2	25.1	28.9	42.7	19.0	27.2
07/14/10	28.6	32.0	35.7	37.1	34.2	36.1	36.0	35.0	31.6	28.6	28.0	27.2	23.6	21.9	34.1	43.9	25.6	26.2	24.8	27.5	25.6	30.3	30.0	35.4	43.9	21.9	30.8
07/15/10	32.7	32.2	34.7	38.6	33.0	35.1	34.2	28.0	28.2	26.5	23.8	21.9	19.1	19.5	20.9	18.1	18.6	22.3	21.7	22.3	23.3	26.8	26.0	27.4	38.6	18.1	26.4
07/16/10	30.8	28.8	29.0	32.5	33.0	35.3	35.0	32.6	30.8	30.4	29.5	29.8	27.6	24.9	25.8	23.1	20.5	23.4	27.4	29.1	37.8	46.5	35.1	48.4	48.4	20.5	31.1
07/17/10	48.4	43.8	47.7	44.4	43.1	47.7	40.9	35.8	30.8	29.8	31.2	28.8	28.2	25.4	24.8	22.9	22.3	22.2	24.8	26.0	26.3	41.4	47.9	48.1	48.4	22.2	34.7
07/18/10	53.4	53.4	51.2	49.3	53.9	55.0	54.4	42.8	37.5	32.7	32.2	32.3	31.8	29.2	28.8	27.6	25.9	27.4	25.6	29.3	27.7	29.1	31.5	35.4	55.0	25.6	37.4
07/19/10	34.4	35.5	39.5	36.9	37.0	38.4	38.2	36.7	35.4	30.9	28.8	25.8	26.5	22.2	23.3	22.5	21.8	23.3	23.9	25.5	26.4	27.0	29.0	36.3	39.5	21.8	30.2
07/20/10	32.2	43.1	58.1	63.5	52.0	54.3	45.7	39.5	32.1	31.5	30.1	27.7	25.6	26.6	23.7	23.5	22.5	22.7	24.2	22.8	23.7	24.4	23.7	25.8	63.5	22.5	33.3
07/21/10	27.6	30.4	30.0	30.9	35.5	36.8	34.6	30.8	32.3	29.6	32.0	27.1	29.0	35.4	25.8	24.3	24.9	26.3	30.3	31.8	34.9	37.5	36.4	60.7	60.7	24.3	32.3
07/22/10	79.0	79.5	77.9	92.2	89.6	69.6	69.4	70.4	65.2	63.9	61.4	52.4	43.4	42.2	42.9	42.6	50.1	47.2	65.5	76.9	77.4	63.3	73.5	61.8	92.2	42.2	64.9
07/23/10	71.0	75.0	63.5	76.4	67.2	59.2	72.8	53.5	58.8	45.1	44.3	42.5	43.0	38.2	35.2	36.7	34.9	34.3	38.1	41.9	44.9	46.0	49.9	53.5	76.4	34.3	51.1
07/24/10	50.6	51.8	50.3	53.1	53.4	53.2	50.9	47.6	46.2	38.7	40.8	37.3	31.9	30.9	28.0	28.4	49.3	72.5	63.6	56.4	54.0	48.6	40.9	49.7	72.5	28.0	47.0
07/25/10	46.6	57.3	50.8	54.8	46.3	47.7	47.4	47.4	46.7	43.5	38.4	36.2	26.7	36.9	32.7	39.4	39.0	47.6	45.1	48.6	52.0	54.4	53.6	54.7	57.3	26.7	45.6
07/26/10	56.2	58.7	55.4	56.0	53.2	52.7	53.5	54.6	52.4	49.6	41.9	38.8	38.8	35.2	32.8	33.3	31.5	41.0	38.7	47.5	48.2	49.8	48.1	48.7	58.7	31.5	46.5
07/27/10	50.4	49.2	51.0	53.2	54.8	51.6	56.6	52.8	51.5	39.3	33.6	36.6	38.2	31.3	35.1	39.8	41.6	40.5	45.6	48.6	71.9	68.7	65.7	63.8	71.9	31.3	48.8
07/28/10	63.6	68.3	66.9	69.3	71.4	69.6	66.4	59.1	58.3	55.8	53.4	50.8	41.5	44.9	35.8	38.4	90.8	81.6	64.1	71.2	77.2	75.1	66.3	63.5	90.8	35.8	62.6
07/29/10	62.4	70.5	69.1	66.1	64.2	59.0	56.9	52.4	52.5	51.7	48.3	47.0	41.9	37.7	32.8	59.7	64.1	60.7	65.1	68.3	69.3	69.5	72.8	72.6	72.8	32.8	58.9
07/30/10	70.4	70.6	93.6	87.2	93.6	89.1	88.3	83.7	70.5	62.9	74.1	67.0	63.8	58.5	56.5	54.1	52.1	60.3	70.0	69.3	70.5	69.1	78.9	72.4	93.6	52.1	71.9
07/31/10	74.7	77.1	76.4	78.1	82.0	78.6	80.1	75.1	75.0	74.9	72.8	74.8	65.5	64.5	63.7	77.0	80.7	82.8	87.0	79.3	79.7	85.4	83.3	82.0	87.0	63.7	77.1
Hourly Averages	40.4	42.4	44.0	45.2	45.8	45.5	44.6	41.3	39.0	35.4	33.7	31.7	29.0	28.2	26.8	29.0	30.6	32.6	33.6	35.5	37.5	38.9	39.3	41.2			

Maximum Hourly Humidity: 93.6 **Minimum Hourly Humidity:** 9.8

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

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	86.0	86.8	89.0	88.4	82.1	77.8	79.4	78.7	71.3	56.8	53.8	45.3	37.4	31.2	32.6	37.2	43.0	41.8	42.1	49.1	57.8	57.8	59.2	61.7	89.0	31.2	60.3
08/02/10	55.6	62.4	53.2	55.5	48.8	55.4	57.3	47.1	40.9	33.2	35.2	32.8	27.4	26.9	25.6	26.2	29.0	26.7	28.6	34.7	36.1	38.8	36.0	37.3	62.4	25.6	39.6
08/03/10	35.0	39.1	40.6	39.4	41.9	44.0	47.9	42.3	42.2	31.4	25.8	24.1	23.7	22.3	22.2	20.1	20.6	19.1	19.5	23.6	26.9	24.8	28.3	28.0	47.9	19.1	30.5
08/04/10	30.7	28.0	34.7	31.0	30.1	29.8	32.4	29.4	28.7	23.4	22.3	20.7	19.2	23.9	18.8	17.8	18.1	16.1	17.3	22.8	23.7	21.8	24.6	23.4	34.7	16.1	24.5
08/05/10	25.9	28.4	28.9	30.7	35.1	34.5	33.9	34.1	29.6	27.0	25.1	22.7	20.5	22.1	16.5	16.3	15.7	15.6	17.4	21.8	24.4	25.1	27.2	26.3	35.1	15.6	25.2
08/06/10	28.0	29.4	31.6	34.2	34.6	34.2	32.9	31.2	27.0	25.6	24.6	22.6	22.4	21.5	20.6	21.1	20.6	21.7	22.7	24.1	29.9	30.4	30.8	32.7	34.6	20.6	27.3
08/07/10	36.5	43.9	58.9	53.5	48.0	48.8	51.9	51.9	52.4	49.8	43.7	43.4	39.2	31.0	27.9	27.4	29.2	27.5	31.1	32.5	33.6	36.9	42.9	71.7	71.7	27.4	42.2
08/08/10	65.3	73.7	64.5	65.4	65.1	66.5	65.8	59.8	53.1	50.0	45.4	39.7	37.9	29.8	28.8	24.6	23.7	23.6	30.7	30.8	35.5	35.2	38.4	39.2	73.7	23.6	45.5
08/09/10	40.8	41.0	48.2	47.2	44.6	52.2	48.0	44.4	36.2	26.1	27.3	28.3	27.2	28.8	28.0	23.5	25.2	22.5	23.7	25.1	30.0	30.6	28.8	29.6	52.2	22.5	33.6
08/10/10	29.3	31.5	34.3	34.7	36.0	41.9	35.5	34.1	30.4	30.6	26.4	25.0	22.8	19.6	20.7	19.6	21.0	20.3	22.8	24.8	27.4	26.8	27.7	29.2	41.9	19.6	28.0
08/11/10	32.1	32.4	35.4	35.7	36.1	36.2	35.5	30.5	28.8	27.0	25.6	24.5	24.3	22.8	21.0	21.1	21.0	21.7	22.0	24.3	26.0	29.1	30.6	32.3	36.2	21.0	28.2
08/12/10	34.4	33.6	32.4	33.7	31.9	33.3	34.6	27.3	27.4	23.9	23.6	22.4	19.6	21.6	20.9	21.0	19.5	18.8	18.4	20.3	22.2	23.7	24.9	24.0	34.6	18.4	25.6
08/13/10	25.8	25.0	24.8	23.5	23.1	25.0	27.2	18.0	13.1	16.8	13.9	13.4	13.7	15.2	13.3	14.3	16.0	14.7	16.3	16.5	14.8	18.9	19.4	18.6	27.2	13.1	18.4
08/14/10	19.8	20.6	19.7	22.5	23.1	22.1	24.8	22.0	24.1	24.3	21.6	19.9	21.1	17.6	17.1	17.1	17.5	19.1	20.9	22.4	24.8	25.5	26.1	27.0	27.0	17.1	21.7
08/15/10	28.3	29.5	39.5	43.1	44.9	41.3	43.8	42.3	39.7	35.7	30.5	29.2	24.9	22.8	21.2	20.6	21.0	21.9	26.9	26.5	27.8	27.7	32.0	35.8	44.9	20.6	31.5
08/16/10	41.4	44.3	42.3	40.6	61.5	70.4	59.1	54.6	42.4	40.1	37.6	30.9	29.7	30.5	26.3	24.7	27.5	28.5	29.3	29.5	40.7	37.7	34.9	33.3	70.4	24.7	39.1
08/17/10	35.2	40.0	40.2	49.3	41.7	51.4	48.9	42.9	36.8	32.8	29.3	27.6	24.5	24.0	25.3	27.7	45.2	54.3	57.6	54.3	58.1	59.1	69.6	78.6	78.6	24.0	43.9
08/18/10	66.4	54.1	52.8	68.1	72.8	77.3	53.5	60.9	45.8	39.4	39.3	33.9	31.4	31.7	30.0	31.7	27.4	28.4	28.7	32.9	36.4	41.2	44.7	51.0	77.3	27.4	45.0
08/19/10	48.7	48.4	48.6	50.4	41.7	42.7	42.0	36.5	34.2	31.1	26.4	26.7	26.0	23.6	25.1	22.2	20.7	21.0	23.1	25.9	26.4	29.7	32.3	32.2	50.4	20.7	32.7
08/20/10	35.2	36.8	33.8	37.2	37.5	39.9	44.0	33.6	31.0	28.8	26.7	25.5	20.2	20.5	20.5	18.3	18.1	19.6	23.6	26.1	27.6	27.9	28.1	32.3	44.0	18.1	28.9
08/21/10	33.3	36.5	42.5	48.3	54.1	56.3	58.0	50.8	46.7	43.9	39.6	36.5	35.3	34.6	31.0	31.6	30.2	32.7	32.4	35.5	37.9	76.6	93.3	87.2	93.3	30.2	46.0
08/22/10	81.2	54.0	49.0	71.5	60.6	57.7	67.5	56.4	55.0	48.2	53.7	43.3	43.8	41.7	41.9	37.2	37.4	39.9	42.6	44.3	53.9	51.6	57.5	57.2	81.2	37.2	52.0
08/23/10	59.0	63.5	56.7	55.0	48.2	54.9	53.5	49.2	45.0	37.6	34.7	30.9	27.7	27.2	22.9	22.1	22.7	21.6	24.4	24.8	32.0	29.8	41.5	29.2	63.5	21.6	38.1
08/24/10	30.0	37.4	35.1	39.4	40.4	33.1	34.8	28.4	26.0	26.1	25.1	23.1	22.3	19.8	19.6	36.9	26.9	28.7	31.9	43.1	42.9	47.8	50.9	50.0	50.9	19.6	33.3
08/25/10	45.3	40.6	39.9	44.8	48.4	45.6	43.5	42.7	43.7	37.9	35.4	30.8	28.9	28.0	28.0	27.8	27.6	27.9	28.8	30.0	31.6	33.4	32.9	33.0	48.4	27.6	35.7
08/26/10	33.1	35.7	35.9	34.3	34.1	32.5	33.6	32.0	30.3	29.0	28.1	28.8	28.9	30.2	31.1	32.1	31.3	30.5	32.4	48.3	45.7	47.6	49.1	49.7	49.7	28.1	35.2
08/27/10	49.4	53.7	37.0	31.6	34.8	53.7	44.9	39.7	38.0	37.1	39.5	43.2	45.3	48.2	44.4	43.7	44.1	40.7	43.2	56.0	52.5	56.1	57.5	55.3	57.5	31.6	45.4
08/28/10	54.8	58.5	59.1	59.9	61.8	62.4	63.8	59.4	49.0	45.7	46.5	42.6	40.9	37.7	34.6	32.6	38.1	43.0	43.0	44.0	44.8	55.8	54.2	49.5	63.8	32.6	49.2
08/29/10	55.9	63.6	60.6	61.5	62.8	65.7	67.7	58.6	52.7	51.6	45.9	43.7	49.4	66.3	32.5	44.0	31.0	31.6	47.4	41.8	51.8	52.4	56.9	55.4	67.7	31.0	52.1
08/30/10	54.7	57.3	58.7	60.0	67.0	69.8	67.4	62.3	58.1	55.1	49.3	45.2	44.4	37.5	36.4	30.0	31.1	29.6	31.5	31.4	30.7	28.8	30.6	36.3	69.8	28.8	46.0
08/31/10	35.5	33.1	27.1	23.8	30.6	27.6	28.1	27.5	36.8	50.0	41.0	42.9	36.8	31.5	29.5	30.0	28.0	28.4	30.7	29.6	30.6	36.2	36.4	38.3	50.0	23.8	32.9
Hourly Averages	43.0	44.0	43.7	45.6	45.9	47.9	47.1	42.9	39.2	36.0	33.6	31.3	29.6	28.7	26.3	26.5	26.7	27.0	29.4	32.2	35.0	37.6	40.2	41.5			

Maximum Hourly Humidity: 93.3 **Minimum Hourly Humidity:** 13.1

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

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	40.5	41.9	43.8	43.3	44.6	43.8	40.4	33.7	30.8	27.8	27.0	24.2	20.8	18.9	16.7	15.2	13.6	14.8	14.4	13.7	16.7	20.0	22.1	24.1	44.6	13.6	27.2
09/02/10	25.5	26.8	27.4	27.3	27.9	29.8	30.0	25.8	22.6	20.8	18.8	15.9	13.7	14.2	13.3	12.5	12.3	13.7	14.2	14.2	15.1	19.2	19.9	23.6	30.0	12.3	20.2
09/03/10	21.9	17.2	16.4	18.9	19.6	19.3	18.0	17.7	15.9	17.1	18.2	20.0	19.0	17.5	14.1	14.9	14.9	17.1	17.6	21.4	21.0	23.7	24.1	24.8	24.8	14.1	18.8
09/04/10	26.3	28.4	30.6	29.2	31.1	36.6	38.6	35.2	31.2	28.8	28.1	21.8	19.8	16.7	13.9	14.1	13.2	13.0	14.6	17.4	20.0	22.3	23.4	22.9	38.6	13.0	24.0
09/05/10	20.4	20.5	22.0	23.7	24.3	24.6	25.1	24.7	21.2	20.2	19.7	19.0	18.0	19.0	16.6	15.9	15.5	15.8	18.6	20.2	22.5	24.0	26.0	25.8	26.0	15.5	21.0
09/06/10	31.5	39.7	47.1	49.8	51.4	51.8	49.5	45.1	41.8	40.1	39.2	30.1	31.5	27.2	28.6	67.4	46.2	53.0	43.7	53.1	45.3	46.4	50.4	57.4	67.4	27.2	44.5
09/07/10	53.9	54.4	56.2	48.2	53.1	59.5	64.6	50.0	34.5	25.4	22.8	20.7	24.7	22.9	24.4	24.4	26.0	37.3	41.8	43.6	39.8	39.1	47.2	46.5	64.6	20.7	40.0
09/08/10	48.8	50.7	57.3	51.4	44.4	56.5	50.2	39.7	40.6	45.4	44.3	43.4	39.1	32.8	34.9	24.2	23.4	23.4	24.4	26.5	25.3	25.7	30.0	27.0	57.3	23.4	37.9
09/09/10	21.2	25.2	27.0	30.6	37.2	41.0	42.7	36.2	37.2	34.1	30.6	25.2	26.0	27.2	22.1	21.4	19.2	16.8	13.6	13.1	15.7	22.8	24.4	23.7	42.7	13.1	26.4
09/10/10	24.8	21.4	25.2	28.1	26.7	27.4	24.1	20.2	16.1	13.8	14.9	11.5	10.7	10.7	10.2	10.4	10.9	12.4	13.1	16.5	16.8	17.6	17.8	16.2	28.1	10.2	17.4
09/11/10	18.6	19.2	16.2	20.0	19.5	17.6	19.7	18.0	15.9	12.7	12.0	11.5	10.7	10.5	9.7	9.7	11.7	12.4	13.0	13.5	16.1	16.0	18.2	15.7	20.0	9.7	14.9
09/12/10	21.4	18.5	16.5	18.5	18.4	18.9	20.9	18.7	16.4	13.4	12.0	11.5	12.0	11.5	11.7	11.3	11.5	12.4	13.6	14.9	14.8	14.2	18.0	16.5	21.4	11.3	15.3
09/13/10	20.0	17.8	20.0	22.7	25.4	28.6	29.0	25.8	24.7	20.2	17.6	16.9	15.2	15.5	12.8	11.9	11.3	10.6	11.0	11.6	15.2	13.7	11.6	14.9	29.0	10.6	17.7
09/14/10	13.0	13.2	11.9	14.1	18.2	19.4	19.9	23.0	23.7	26.1	24.9	19.0	17.1	15.0	12.1	11.1	11.8	11.9	13.0	13.6	16.5	14.2	16.7	17.8	26.1	11.1	16.5
09/15/10	18.6	18.6	19.0	18.6	22.7	27.7	25.5	23.2	21.6	20.4	18.0	18.6	18.3	16.1	15.6	16.6	16.2	16.9	16.6	18.8	23.8	22.3	23.0	22.8	27.7	15.6	20.0
09/16/10	23.3	25.4	25.9	26.3	26.1	27.0	26.1	23.5	20.5	16.9	15.6	15.0	13.1	12.7	13.5	13.5	12.8	12.8	14.8	16.3	16.7	20.3	17.7	18.2	27.0	12.7	18.9
09/17/10	17.2	16.4	19.0	16.4	19.3	25.8	24.5	27.4	26.5	23.4	16.7	12.0	10.0	9.4	9.6	9.4	9.2	9.2	12.0	12.6	11.4	14.0	13.5	11.6	27.4	9.2	15.7
09/18/10	13.1	16.6	15.8	12.9	14.3	12.9	13.3	15.2	15.6	16.4	16.0	11.1	10.1	10.3	10.4	10.0	9.5	10.4	10.8	10.7	11.7	13.0	11.9	11.7	16.6	9.5	12.7
09/19/10	11.5	11.6	15.5	14.9	16.6	20.9	25.2	25.2	25.3	24.8	24.2	22.9	19.7	16.9	15.8	16.2	16.1	18.1	20.0	20.8	22.6	22.9	23.6	25.2	25.3	11.5	19.9
09/20/10	26.8	28.7	29.7	30.7	32.4	34.0	35.6	35.4	31.8	32.2	30.7	29.0	24.1	21.1	18.1	16.2	15.7	15.9	15.0	16.9	16.8	21.4	21.3	27.6	35.6	15.0	25.3
09/21/10	42.8	46.4	46.4	49.1	52.0	53.6	55.6	50.8	51.1	43.2	38.8	34.1	33.9	35.8	29.1	29.7	28.8	31.0	31.8	43.4	43.0	46.2	67.3	59.5	67.3	28.8	43.5
09/22/10	57.7	58.3	73.5	75.9	84.8	86.6	79.7	90.5	83.6	78.4	75.6	71.5	60.8	57.2	56.2	52.9	48.5	48.8	54.6	55.7	80.0	78.6	79.9	68.0	90.5	48.5	69.0
09/23/10	58.9	55.7	54.2	76.2	77.3	76.4	78.4	63.6	56.7	48.7	28.9	27.5	21.9	21.3	20.9	20.3	19.5	22.5	21.5	21.8	32.3	28.8	29.4	29.1	78.4	19.5	41.3
09/24/10	32.8	28.4	30.6	29.2	32.1	30.6	37.6	27.5	24.9	24.3	23.2	23.0	22.0	18.4	17.9	17.4	14.7	20.9	20.0	20.7	22.7	20.5	16.1	15.4	37.6	14.7	23.8
09/25/10	15.7	19.1	18.7	23.7	23.1	22.9	22.8	20.4	20.7	20.5	19.1	19.3	18.4	16.8	19.3	21.8	19.4	21.0	22.2	24.6	20.0	17.8	17.3	18.6	24.6	15.7	20.1
09/26/10	19.3	22.6	22.2	23.9	30.4	33.8	38.6	36.9	31.4	28.6	25.1	20.2	19.0	16.5	15.8	17.7	16.5	17.3	19.5	20.0	22.0	23.9	22.9	23.9	38.6	15.8	23.6
09/27/10	25.9	25.9	25.7	24.8	24.7	27.4	29.9	26.0	25.5	22.9	21.3	17.9	17.1	15.4	12.7	13.4	13.1	14.0	16.7	17.5	16.5	17.5	21.8	22.2	29.9	12.7	20.7
09/28/10	22.9	26.0	26.6	23.1	28.2	26.0	25.9	26.7	22.3	18.8	20.5	19.0	18.1	16.3	16.0	13.3	19.0	20.7	22.2	26.6	24.6	18.6	16.9	20.2	28.2	13.3	21.6
09/29/10	16.3	21.2	23.0	22.2	23.0	22.4	25.0	21.7	20.5	17.9	17.0	14.9	14.5	13.4	12.9	14.1	18.0	18.1	19.2	20.9	22.1	22.8	22.8	22.3	25.0	12.9	19.4
09/30/10	22.4	21.9	23.5	25.4	24.3	25.7	23.7	21.6	18.5	15.1	13.9	12.6	12.0	11.1	10.1	10.2	12.1	12.4	14.3	14.2	14.2	14.4	14.5	15.8	25.7	10.1	16.8
Hourly Averages	27.1	27.9	29.6	30.6	32.4	34.3	34.7	31.6	29.0	26.6	24.5	22.0	20.4	18.9	17.8	18.6	17.7	19.1	19.9	21.8	23.4	24.1	25.6	25.6			

Maximum Hourly Humidity: 90.5 **Minimum Hourly Humidity:** 9.2

Total Number of Observations: 720 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-F

HOURLY BAROMETRIC PRESSURE DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	26.85	26.84	26.84	26.84	26.85	26.87	26.88	26.89	26.90	26.90	26.90	26.89	26.88	26.86	26.83	26.80	26.79	26.78	26.77	26.77	26.78	26.79	26.80	26.80	26.90	26.77	26.84
07/02/10	26.79	26.78	26.77	26.77	26.78	26.78	26.80	26.81	26.81	26.80	26.80	26.79	26.78	26.74	26.73	26.71	26.69	26.68	26.67	26.67	26.68	26.69	26.71	26.72	26.81	26.67	26.75
07/03/10	26.73	26.73	26.74	26.75	26.75	26.77	26.80	26.81	26.83	26.83	26.83	26.82	26.82	26.81	26.79	26.77	26.77	26.75	26.75	26.75	26.75	26.77	26.79	26.81	26.83	26.73	26.78
07/04/10	26.82	26.83	26.84	26.85	26.86	26.88	26.89	26.90	26.92	26.92	26.92	26.92	26.92	26.90	26.89	26.88	26.86	26.85	26.84	26.84	26.85	26.86	26.89	26.89	26.92	26.82	26.88
07/05/10	26.89	26.89	26.90	26.90	26.90	26.92	26.93	26.95	26.96	26.96	26.95	26.95	26.93	26.91	26.89	26.87	26.85	26.84	26.83	26.83	26.84	26.85	26.86	26.86	26.96	26.83	26.89
07/06/10	26.85	26.85	26.85	26.85	26.86	26.87	26.88	26.89	26.90	26.90	26.89	26.88	26.87	26.86	26.83	26.81	26.79	26.78	26.77	26.77	26.78	26.79	26.80	26.80	26.90	26.77	26.84
07/07/10	26.80	26.79	26.79	26.79	26.80	26.81	26.83	26.85	26.86	26.86	26.87	26.87	26.85	26.83	26.82	26.80	26.79	26.77	26.78	26.79	26.82	26.83	26.85	26.85	26.87	26.77	26.82
07/08/10	26.85	26.85	26.86	26.86	26.87	26.87	26.89	26.91	26.92	26.92	26.91	26.90	26.90	26.87	26.86	26.83	26.80	26.79	26.80	26.81	26.83	26.86	26.88	26.89	26.92	26.79	26.86
07/09/10	26.88	26.88	26.88	26.87	26.89	26.89	26.91	26.93	26.95	26.95	26.95	26.94	26.92	26.90	26.89	26.87	26.85	26.84	26.83	26.83	26.85	26.87	26.89	26.90	26.95	26.83	26.89
07/10/10	26.89	26.90	26.90	26.90	26.90	26.90	26.91	26.93	26.93	26.93	26.93	26.93	26.91	26.88	26.85	26.83	26.89	26.83	26.83	26.84	26.85	26.87	26.88	26.88	26.93	26.83	26.89
07/11/10	26.88	26.89	26.89	26.88	26.88	26.88	26.89	26.89	26.90	26.91	26.91	26.91	26.89	26.87	26.84	26.82	26.80	26.80	26.81	26.82	26.84	26.87	26.88	26.88	26.91	26.80	26.87
07/12/10	26.90	26.89	26.89	26.89	26.89	26.90	26.91	26.92	26.94	26.94	26.94	26.93	26.92	26.90	26.88	26.86	26.84	26.82	26.81	26.82	26.83	26.86	26.87	26.87	26.94	26.81	26.88
07/13/10	26.88	26.87	26.88	26.88	26.89	26.89	26.90	26.91	26.92	26.91	26.91	26.90	26.89	26.86	26.84	26.82	26.81	26.79	26.79	26.80	26.82	26.84	26.85	26.86	26.92	26.79	26.86
07/14/10	26.88	26.88	26.89	26.88	26.89	26.91	26.92	26.94	26.96	26.96	26.96	26.96	26.96	26.93	26.91	26.94	26.92	26.90	26.90	26.90	26.90	26.91	26.92	26.91	26.96	26.88	26.92
07/15/10	26.92	26.91	26.92	26.92	26.93	26.94	26.95	26.96	26.97	26.98	26.99	26.98	26.96	26.93	26.90	26.89	26.87	26.87	26.87	26.89	26.90	26.92	26.95	26.95	26.99	26.87	26.93
07/16/10	26.93	26.95	26.96	26.95	26.96	26.97	26.99	27.00	27.01	27.01	27.01	27.01	27.01	27.00	26.97	26.94	26.92	26.90	26.90	26.92	26.94	26.98	27.01	26.96	27.01	26.90	26.97
07/17/10	26.96	26.95	26.95	26.94	26.95	26.96	26.98	26.99	27.01	27.02	27.02	27.00	26.99	26.97	26.94	26.91	26.88	26.87	26.87	26.88	26.89	26.92	26.96	26.99	27.02	26.87	26.95
07/18/10	27.00	27.00	26.99	26.97	26.96	26.97	26.99	27.00	26.99	26.98	26.98	26.96	26.95	26.94	26.92	26.89	26.87	26.86	26.86	26.88	26.87	26.87	26.91	26.92	27.00	26.86	26.94
07/19/10	26.90	26.88	26.88	26.88	26.90	26.92	26.93	26.94	26.96	26.96	26.95	26.93	26.91	26.89	26.87	26.83	26.81	26.81	26.80	26.80	26.82	26.84	26.85	26.87	26.96	26.80	26.88
07/20/10	26.88	26.89	26.93	26.92	26.91	26.88	26.88	26.88	26.88	26.90	26.91	26.91	26.90	26.88	26.85	26.84	26.82	26.81	26.81	26.82	26.83	26.85	26.87	26.87	26.93	26.81	26.87
07/21/10	26.86	26.85	26.86	26.86	26.87	26.88	26.89	26.91	26.92	26.93	26.95	26.95	26.94	26.91	26.89	26.87	26.84	26.83	26.82	26.82	26.83	26.87	26.90	26.90	26.95	26.82	26.88
07/22/10	26.95	26.97	26.97	26.95	26.94	26.93	26.92	26.93	26.97	26.99	26.99	26.99	26.97	26.95	26.93	26.91	26.88	26.88	26.88	26.89	26.90	26.91	26.92	26.92	26.99	26.88	26.93
07/23/10	26.91	26.91	26.91	26.90	26.90	26.90	26.91	26.92	26.93	26.94	26.94	26.93	26.92	26.91	26.90	26.89	26.87	26.85	26.85	26.87	26.87	26.89	26.90	26.89	26.94	26.85	26.90
07/24/10	26.89	26.88	26.87	26.87	26.88	26.89	26.90	26.91	26.91	26.92	26.92	26.91	26.90	26.88	26.86	26.84	26.82	26.84	26.87	26.89	26.84	26.86	26.88	26.87	26.92	26.82	26.88
07/25/10	26.88	26.88	26.87	26.86	26.86	26.87	26.88	26.89	26.91	26.91	26.91	26.91	26.89	26.87	26.85	26.83	26.83	26.83	26.83	26.85	26.87	26.89	26.90	26.89	26.91	26.83	26.87
07/26/10	26.89	26.89	26.89	26.89	26.88	26.88	26.89	26.90	26.92	26.93	26.93	26.93	26.91	26.89	26.87	26.84	26.82	26.81	26.81	26.83	26.85	26.88	26.88	26.88	26.93	26.81	26.88
07/27/10	26.87	26.87	26.86	26.88	26.88	26.88	26.89	26.91	26.93	26.93	26.93	26.93	26.91	26.89	26.88	26.86	26.85	26.85	26.85	26.87	26.90	26.94	26.93	26.93	26.94	26.85	26.89
07/28/10	26.93	26.93	26.93	26.94	26.93	26.94	26.95	26.97	26.98	26.99	26.99	26.99	26.98	26.96	26.93	26.91	26.90	26.96	26.93	26.91	26.94	26.97	26.98	26.98	26.99	26.90	26.95
07/29/10	26.98	26.98	26.98	26.97	26.96	26.98	27.00	27.00	27.01	27.01	27.01	27.01	26.99	26.97	26.94	26.92	26.94	26.93	26.95	26.94	26.95	26.95	26.96	26.96	27.01	26.92	26.97
07/30/10	26.97	26.98	26.98	27.01	26.99	26.98	26.98	26.99	26.99	27.00	27.00	27.00	26.98	26.96	26.94	26.92	26.90	26.89	26.90	26.91	26.90	26.93	26.93	26.94	27.01	26.89	26.96
07/31/10	26.95	26.96	26.95	26.95	26.94	26.95	26.95	26.97	26.98	26.99	27.00	27.00	26.98	26.96	26.94	26.92	26.91	26.91	26.91	26.91	26.93	26.95	26.95	26.95	27.00	26.91	26.95
Hourly Averages	26.89	26.89	26.89	26.89	26.89	26.90	26.91	26.92	26.93	26.94	26.94	26.93	26.92	26.90	26.88	26.86	26.84	26.84	26.84	26.84	26.85	26.87	26.89	26.89			

Maximum Hourly Pressure: 27.02 **Minimum Hourly Pressure:** 26.67

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

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	26.94	26.94	26.94	26.93	26.93	26.94	26.95	26.95	26.97	26.98	26.97	26.97	26.96	26.95	26.94	26.92	26.91	26.90	26.90	26.92	26.93	26.94	26.94	26.96	26.98	26.90	26.94
08/02/10	26.96	26.95	26.95	26.95	26.96	26.96	26.97	26.98	27.00	27.00	27.01	27.00	26.99	26.97	26.95	26.94	26.93	26.93	26.93	26.93	26.95	26.96	26.97	26.96	27.01	26.93	26.96
08/03/10	26.96	26.96	26.95	26.96	26.97	26.98	26.99	27.01	27.02	27.02	27.02	27.02	27.01	27.00	26.98	26.96	26.93	26.93	26.93	26.93	26.93	26.95	26.96	26.95	27.02	26.93	26.97
08/04/10	26.94	26.94	26.93	26.93	26.94	26.95	26.96	26.96	26.97	26.97	26.98	26.97	26.96	26.95	26.92	26.90	26.88	26.87	26.86	26.86	26.88	26.89	26.89	26.88	26.98	26.86	26.92
08/05/10	26.89	26.89	26.88	26.88	26.88	26.89	26.90	26.91	26.92	26.92	26.91	26.91	26.90	26.88	26.86	26.83	26.81	26.80	26.80	26.80	26.82	26.84	26.85	26.84	26.92	26.80	26.87
08/06/10	26.84	26.84	26.84	26.85	26.85	26.86	26.87	26.89	26.91	26.92	26.93	26.92	26.91	26.90	26.88	26.86	26.84	26.82	26.82	26.82	26.83	26.85	26.86	26.85	26.93	26.82	26.86
08/07/10	26.86	26.88	26.90	26.90	26.91	26.90	26.89	26.91	26.91	26.93	26.93	26.94	26.93	26.91	26.89	26.87	26.85	26.84	26.83	26.84	26.85	26.87	26.88	26.91	26.94	26.83	26.89
08/08/10	26.93	26.93	26.92	26.91	26.92	26.92	26.93	26.95	26.97	26.96	26.97	26.96	26.94	26.93	26.91	26.89	26.87	26.85	26.83	26.84	26.86	26.88	26.89	26.90	26.97	26.83	26.91
08/09/10	26.91	26.91	26.91	26.91	26.90	26.91	26.92	26.93	26.94	26.94	26.95	26.94	26.94	26.93	26.91	26.89	26.87	26.86	26.85	26.84	26.85	26.88	26.89	26.90	26.95	26.84	26.90
08/10/10	26.90	26.89	26.89	26.90	26.90	26.91	26.92	26.93	26.94	26.95	26.95	26.95	26.94	26.92	26.92	26.89	26.88	26.87	26.86	26.87	26.87	26.89	26.89	26.89	26.95	26.86	26.91
08/11/10	26.89	26.90	26.90	26.90	26.91	26.91	26.92	26.94	26.95	26.95	26.95	26.94	26.93	26.91	26.89	26.87	26.86	26.84	26.83	26.83	26.83	26.85	26.86	26.86	26.95	26.83	26.89
08/12/10	26.86	26.86	26.86	26.85	26.85	26.85	26.87	26.88	26.89	26.89	26.88	26.88	26.86	26.85	26.83	26.80	26.78	26.76	26.76	26.76	26.77	26.79	26.79	26.80	26.89	26.76	26.83
08/13/10	26.81	26.81	26.81	26.82	26.82	26.82	26.84	26.85	26.86	26.86	26.87	26.87	26.85	26.83	26.82	26.80	26.78	26.77	26.76	26.76	26.78	26.80	26.81	26.81	26.87	26.76	26.82
08/14/10	26.80	26.81	26.82	26.83	26.83	26.83	26.85	26.88	26.89	26.90	26.90	26.89	26.87	26.86	26.84	26.82	26.81	26.81	26.80	26.81	26.83	26.84	26.85	26.86	26.90	26.80	26.84
08/15/10	26.88	26.89	26.91	26.93	26.93	26.91	26.91	26.92	26.94	26.94	26.95	26.93	26.91	26.89	26.87	26.85	26.84	26.82	26.82	26.85	26.86	26.90	26.91	26.92	26.95	26.82	26.89
08/16/10	26.93	26.94	26.92	26.89	26.91	26.99	27.01	27.02	27.02	26.99	26.98	26.98	26.96	26.95	26.94	26.91	26.89	26.89	26.89	26.91	26.93	26.94	26.96	26.96	27.02	26.89	26.95
08/17/10	26.96	26.95	26.95	26.95	26.94	26.95	26.96	26.97	26.98	26.98	26.99	26.98	26.96	26.93	26.91	26.89	26.88	26.92	26.95	26.96	26.98	26.99	27.00	27.01	27.01	26.88	26.96
08/18/10	27.00	26.98	26.94	26.93	26.95	26.95	26.97	26.98	26.99	26.99	26.99	27.00	26.98	26.97	26.95	26.92	26.91	26.90	26.89	26.89	26.90	26.91	26.91	26.91	27.00	26.89	26.95
08/19/10	26.91	26.89	26.88	26.88	26.89	26.88	26.89	26.91	26.92	26.91	26.91	26.91	26.90	26.88	26.85	26.82	26.81	26.79	26.78	26.79	26.80	26.82	26.82	26.82	26.92	26.78	26.86
08/20/10	26.82	26.81	26.81	26.81	26.81	26.82	26.83	26.85	26.87	26.87	26.87	26.87	26.86	26.84	26.82	26.80	26.77	26.76	26.75	26.77	26.78	26.82	26.84	26.84	26.87	26.75	26.82
08/21/10	26.84	26.84	26.85	26.86	26.87	26.88	26.90	26.93	26.94	26.94	26.94	26.93	26.92	26.91	26.88	26.86	26.85	26.83	26.84	26.85	26.87	26.89	27.01	27.02	27.02	26.83	26.89
08/22/10	27.00	26.96	26.95	26.92	26.92	26.92	26.93	26.96	26.97	26.98	26.98	26.98	26.97	26.95	26.93	26.92	26.91	26.89	26.89	26.89	26.90	26.92	26.91	26.92	27.00	26.89	26.94
08/23/10	26.92	26.92	26.92	26.91	26.91	26.91	26.93	26.95	26.97	26.96	26.96	26.96	26.95	26.93	26.91	26.89	26.87	26.87	26.86	26.88	26.89	26.89	26.91	26.91	26.97	26.86	26.92
08/24/10	26.91	26.90	26.90	26.90	26.90	26.90	26.91	26.92	26.93	26.94	26.95	26.95	26.94	26.91	26.88	26.86	26.89	26.88	26.90	26.92	26.96	26.99	27.00	27.01	27.01	26.86	26.92
08/25/10	27.01	27.01	26.99	26.99	27.00	26.98	26.98	26.99	27.01	27.02	27.02	27.02	27.01	27.00	26.98	26.96	26.95	26.95	26.94	26.96	26.95	26.98	27.01	27.00	27.02	26.94	26.99
08/26/10	27.00	26.99	26.99	26.99	26.98	26.99	27.00	27.01	27.02	27.03	27.05	27.05	27.04	27.03	27.01	26.98	26.95	26.94	26.92	26.93	26.95	26.96	26.96	26.95	27.05	26.92	26.99
08/27/10	26.93	26.94	26.94	26.93	26.92	26.92	26.93	26.93	26.93	26.94	26.96	26.95	26.93	26.92	26.88	26.85	26.84	26.83	26.83	26.86	26.85	26.86	26.87	26.87	26.96	26.83	26.90
08/28/10	26.86	26.86	26.85	26.84	26.83	26.84	26.84	26.85	26.86	26.86	26.87	26.86	26.84	26.82	26.79	26.77	26.75	26.75	26.74	26.74	26.74	26.81	26.81	26.80	26.87	26.74	26.82
08/29/10	26.81	26.80	26.79	26.79	26.79	26.80	26.81	26.82	26.83	26.83	26.84	26.83	26.82	26.79	26.77	26.74	26.73	26.73	26.73	26.75	26.76	26.79	26.80	26.81	26.84	26.73	26.79
08/30/10	26.82	26.82	26.82	26.83	26.84	26.85	26.86	26.88	26.89	26.91	26.91	26.91	26.90	26.89	26.87	26.86	26.85	26.84	26.84	26.85	26.87	26.90	26.91	26.93	26.93	26.82	26.87
08/31/10	26.94	26.95	26.95	26.95	26.95	26.95	26.96	26.97	26.98	26.99	26.99	26.99	26.97	26.95	26.94	26.92	26.90	26.89	26.89	26.88	26.90	26.91	26.92	26.92	26.99	26.88	26.94
Hourly Averages	26.90	26.90	26.90	26.90	26.90	26.91	26.92	26.93	26.94	26.94	26.95	26.94	26.93	26.91	26.89	26.87	26.86	26.85	26.85	26.85	26.87	26.89	26.90	26.90			

Maximum Hourly Pressure: 27.05 **Minimum Hourly Pressure:** 26.73

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

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	26.92	26.92	26.91	26.92	26.91	26.91	26.91	26.93	26.94	26.94	26.95	26.94	26.92	26.90	26.88	26.85	26.83	26.82	26.82	26.83	26.85	26.86	26.87	26.87	26.95	26.82	26.89
09/02/10	26.87	26.87	26.87	26.87	26.87	26.87	26.89	26.90	26.91	26.92	26.93	26.92	26.90	26.89	26.87	26.85	26.84	26.85	26.86	26.87	26.89	26.91	26.91	26.92	26.93	26.84	26.89
09/03/10	26.93	26.93	26.91	26.92	26.92	26.93	26.95	26.96	26.98	26.99	26.99	26.99	26.99	26.97	26.95	26.92	26.90	26.90	26.91	26.91	26.95	26.96	26.97	26.97	26.99	26.90	26.95
09/04/10	26.97	26.98	26.98	26.98	26.97	26.97	26.99	27.01	27.01	27.01	27.01	27.00	26.98	26.96	26.93	26.90	26.87	26.86	26.86	26.85	26.86	26.88	26.88	26.88	27.01	26.85	26.94
09/05/10	26.88	26.87	26.86	26.86	26.86	26.87	26.87	26.88	26.88	26.89	26.88	26.87	26.84	26.82	26.79	26.77	26.75	26.73	26.72	26.71	26.73	26.74	26.74	26.75	26.89	26.71	26.82
09/06/10	26.77	26.78	26.79	26.79	26.79	26.80	26.80	26.82	26.83	26.84	26.85	26.85	26.83	26.81	26.79	26.78	26.81	26.77	26.77	26.77	26.79	26.80	26.81	26.82	26.85	26.77	26.80
09/07/10	26.83	26.84	26.84	26.84	26.84	26.84	26.86	26.88	26.88	26.89	26.90	26.89	26.88	26.86	26.84	26.82	26.80	26.81	26.83	26.83	26.83	26.85	26.86	26.87	26.90	26.80	26.85
09/08/10	26.87	26.87	26.87	26.87	26.87	26.87	26.87	26.89	26.88	26.88	26.89	26.88	26.86	26.84	26.81	26.79	26.77	26.76	26.76	26.76	26.78	26.81	26.82	26.84	26.89	26.76	26.84
09/09/10	26.85	26.85	26.85	26.85	26.84	26.84	26.86	26.87	26.88	26.88	26.89	26.89	26.87	26.86	26.84	26.82	26.81	26.80	26.80	26.81	26.82	26.85	26.86	26.86	26.89	26.80	26.85
09/10/10	26.88	26.89	26.89	26.90	26.91	26.91	26.93	26.95	26.96	26.97	26.98	26.99	26.98	26.97	26.96	26.94	26.94	26.93	26.93	26.94	26.95	26.96	26.97	26.97	26.99	26.88	26.94
09/11/10	26.97	26.97	26.97	26.97	26.97	26.98	26.98	27.01	27.02	27.02	27.03	27.02	27.00	26.98	26.96	26.95	26.94	26.93	26.94	26.94	26.95	26.97	26.97	26.97	27.03	26.93	26.98
09/12/10	26.96	26.96	26.96	26.96	26.96	26.96	26.97	26.98	27.00	27.00	27.00	26.99	26.98	26.96	26.94	26.93	26.92	26.92	26.92	26.92	26.94	26.95	26.95	26.95	27.00	26.92	26.96
09/13/10	26.95	26.95	26.96	26.96	26.95	26.96	26.97	26.98	26.98	26.99	26.99	26.98	26.96	26.94	26.92	26.89	26.88	26.87	26.87	26.88	26.90	26.92	26.93	26.93	26.99	26.87	26.94
09/14/10	26.92	26.91	26.91	26.92	26.92	26.94	26.95	26.97	26.98	26.99	26.99	26.97	26.97	26.94	26.92	26.90	26.90	26.89	26.89	26.90	26.91	26.93	26.93	26.93	26.99	26.89	26.93
09/15/10	26.92	26.93	26.93	26.93	26.92	26.93	26.94	26.96	26.97	26.98	26.97	26.96	26.95	26.94	26.91	26.90	26.89	26.88	26.88	26.88	26.90	26.91	26.92	26.91	26.98	26.88	26.93
09/16/10	26.91	26.92	26.91	26.90	26.90	26.91	26.92	26.94	26.95	26.96	26.96	26.95	26.93	26.91	26.89	26.86	26.85	26.84	26.83	26.84	26.86	26.87	26.87	26.87	26.96	26.83	26.90
09/17/10	26.86	26.86	26.86	26.86	26.86	26.87	26.89	26.90	26.91	26.93	26.92	26.92	26.91	26.90	26.88	26.86	26.84	26.83	26.83	26.84	26.86	26.87	26.87	26.88	26.93	26.83	26.88
09/18/10	26.88	26.88	26.88	26.88	26.88	26.89	26.90	26.91	26.93	26.94	26.94	26.93	26.91	26.89	26.87	26.85	26.84	26.83	26.83	26.84	26.85	26.86	26.86	26.87	26.94	26.83	26.88
09/19/10	26.85	26.86	26.86	26.88	26.87	26.88	26.89	26.91	26.91	26.91	26.91	26.90	26.87	26.85	26.82	26.80	26.78	26.78	26.77	26.77	26.78	26.80	26.80	26.80	26.91	26.77	26.84
09/20/10	26.79	26.78	26.78	26.77	26.77	26.76	26.79	26.79	26.81	26.81	26.81	26.82	26.80	26.78	26.75	26.72	26.70	26.70	26.69	26.70	26.73	26.75	26.75	26.76	26.82	26.69	26.76
09/21/10	26.78	26.79	26.79	26.78	26.78	26.79	26.80	26.81	26.82	26.83	26.83	26.81	26.80	26.77	26.74	26.72	26.70	26.69	26.68	26.68	26.71	26.74	26.74	26.73	26.83	26.68	26.76
09/22/10	26.74	26.74	26.74	26.72	26.72	26.73	26.73	26.74	26.75	26.77	26.77	26.76	26.75	26.73	26.71	26.69	26.68	26.68	26.68	26.69	26.70	26.73	26.75	26.76	26.77	26.68	26.73
09/23/10	26.78	26.79	26.80	26.82	26.83	26.84	26.86	26.88	26.90	26.92	26.93	26.93	26.92	26.91	26.89	26.87	26.87	26.87	26.88	26.90	26.91	26.93	26.95	26.95	26.95	26.78	26.88
09/24/10	26.96	26.96	26.96	26.96	26.97	26.97	26.99	27.01	27.02	27.03	27.04	27.04	27.03	27.01	26.99	26.97	26.96	26.95	26.95	26.96	26.98	26.99	27.00	27.00	27.04	26.95	26.99
09/25/10	27.00	26.99	26.99	26.98	26.98	26.97	26.98	27.00	27.00	27.01	27.02	27.01	26.99	26.97	26.95	26.92	26.91	26.91	26.90	26.90	26.92	26.93	26.93	26.93	27.02	26.90	26.96
09/26/10	26.94	26.94	26.94	26.93	26.95	26.97	26.98	27.00	27.01	27.02	27.02	27.00	26.99	26.96	26.93	26.91	26.90	26.89	26.88	26.89	26.90	26.92	26.92	26.93	27.02	26.88	26.95
09/27/10	26.93	26.93	26.93	26.92	26.91	26.93	26.94	26.95	26.96	26.96	26.96	26.95	26.93	26.92	26.89	26.87	26.86	26.85	26.86	26.88	26.90	26.93	26.94	26.95	26.96	26.85	26.92
09/28/10	26.96	26.95	26.96	26.95	26.95	26.96	26.96	26.96	26.98	26.99	26.99	26.97	26.95	26.92	26.89	26.87	26.86	26.85	26.86	26.86	26.88	26.89	26.88	26.88	26.99	26.85	26.92
09/29/10	26.88	26.87	26.88	26.87	26.87	26.88	26.88	26.88	26.89	26.89	26.89	26.87	26.85	26.82	26.79	26.77	26.76	26.76	26.76	26.77	26.78	26.79	26.80	26.80	26.89	26.76	26.83
09/30/10	26.80	26.80	26.81	26.81	26.81	26.82	26.84	26.85	26.86	26.87	26.88	26.87	26.86	26.85	26.83	26.81	26.80	26.80	26.81	26.83	26.86	26.88	26.89	26.90	26.90	26.80	26.84
Hourly Averages	26.89	26.89	26.89	26.89	26.89	26.89	26.90	26.92	26.93	26.93	26.94	26.93	26.91	26.89	26.87	26.85	26.84	26.83	26.83	26.84	26.86	26.87	26.88	26.88			

Maximum Hourly Pressure: 27.04 **Minimum Hourly Pressure:** 26.68

Total Number of Observations: 720 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-G

HOURLY SOLAR RADIATION DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	0.0	0.0	0.0	0.0	0.0	9.3	65.7	295.6	485.7	654.5	788.8	873.0	904.0	911.0	903.0	738.4	192.8	98.7	82.8	19.3	0.0	0.0	0.0	0.0	911.0	9.3	468.2
07/02/10	0.0	0.0	0.0	0.0	0.0	5.6	72.1	316.2	503.8	638.3	785.5	869.0	924.0	412.7	515.5	514.2	461.6	189.7	121.8	18.8	0.0	0.0	0.0	0.0	924.0	5.6	423.3
07/03/10	0.0	0.0	0.0	0.0	0.0	4.5	61.6	306.0	497.8	668.1	803.0	896.0	931.0	900.0	841.0	736.0	458.9	121.3	100.2	17.6	0.0	0.0	0.0	0.0	931.0	4.5	489.5
07/04/10	0.0	0.0	0.0	0.0	0.0	5.1	61.9	303.2	499.1	671.0	808.0	895.0	927.0	908.0	842.0	723.4	448.9	121.3	98.1	17.9	0.0	0.0	0.0	0.0	927.0	5.1	488.7
07/05/10	0.0	0.0	0.0	0.0	0.0	5.0	61.8	300.6	499.2	676.2	816.0	902.0	933.0	910.0	840.0	721.1	452.2	121.1	97.2	18.4	0.0	0.0	0.0	0.0	933.0	5.0	490.3
07/06/10	0.0	0.0	0.0	0.0	0.0	4.9	63.5	298.5	498.1	674.9	816.0	904.0	934.0	912.0	851.0	728.7	457.2	116.3	97.3	19.6	0.0	0.0	0.0	0.0	934.0	4.9	491.7
07/07/10	0.0	0.0	0.0	0.0	0.0	5.1	69.8	273.9	486.4	656.6	792.2	887.0	902.0	912.0	830.0	710.6	442.0	118.9	112.5	24.0	0.0	0.0	0.0	0.0	912.0	5.1	481.5
07/08/10	0.0	0.0	0.0	0.0	0.0	5.0	58.1	281.7	479.1	653.8	787.6	872.0	907.0	897.0	827.0	713.6	472.3	86.9	51.7	15.7	0.0	0.0	0.0	0.0	907.0	5.0	473.9
07/09/10	0.0	0.0	0.0	0.0	0.0	2.7	52.2	250.6	494.8	613.2	770.7	872.0	875.0	420.7	742.7	396.2	136.0	95.0	53.2	9.6	0.0	0.0	0.0	0.0	875.0	2.7	385.6
07/10/10	0.0	0.0	0.0	0.0	0.0	5.5	46.2	203.7	443.2	530.6	666.8	827.0	928.0	889.0	202.7	68.9	28.0	57.3	70.5	44.2	0.0	0.0	0.0	0.0	928.0	5.5	334.1
07/11/10	0.0	0.0	0.0	0.0	0.0	4.2	54.7	196.9	403.5	628.4	788.2	861.0	890.0	869.0	807.0	684.0	425.4	128.7	59.2	16.4	0.0	0.0	0.0	0.0	890.0	4.2	454.4
07/12/10	0.0	0.0	0.0	0.0	0.0	3.9	36.7	148.1	490.0	639.5	772.6	860.0	891.0	871.0	806.0	690.0	418.8	79.1	68.5	18.7	0.0	0.0	0.0	0.0	891.0	3.9	452.9
07/13/10	0.0	0.0	0.0	0.0	0.0	4.2	66.5	279.5	469.0	641.1	778.0	862.0	801.0	729.3	779.2	669.4	437.8	158.9	92.4	18.4	0.0	0.0	0.0	0.0	862.0	4.2	452.4
07/14/10	0.0	0.0	0.0	0.0	0.0	2.6	45.9	82.8	350.4	376.9	384.6	431.0	887.0	518.4	93.8	81.0	178.1	172.7	63.6	12.4	0.0	0.0	0.0	0.0	887.0	2.6	245.4
07/15/10	0.0	0.0	0.0	0.0	0.0	2.6	36.5	237.3	477.0	653.1	774.5	885.0	892.0	765.7	787.5	700.0	359.5	96.4	86.5	32.4	0.0	0.0	0.0	0.0	892.0	2.6	452.4
07/16/10	0.0	0.0	0.0	0.0	0.0	3.2	27.7	107.4	242.7	321.5	374.1	331.3	411.8	723.6	662.3	644.1	393.5	85.5	61.6	13.0	0.0	0.0	0.0	0.0	723.6	3.2	293.5
07/17/10	0.0	0.0	0.0	0.0	0.0	2.6	62.7	161.7	242.1	610.6	682.4	847.0	877.0	856.0	797.1	682.1	367.7	144.1	96.8	27.8	0.0	0.0	0.0	0.0	877.0	2.6	430.5
07/18/10	0.0	0.0	0.0	0.0	0.0	1.5	23.4	204.4	468.4	626.6	760.2	846.0	874.0	852.0	789.3	673.0	365.8	124.0	144.3	41.2	0.0	0.0	0.0	0.0	874.0	1.5	452.9
07/19/10	0.0	0.0	0.0	0.0	0.0	2.3	51.2	154.4	411.9	526.4	755.2	731.9	905.0	864.0	799.4	681.9	361.3	84.6	85.8	22.2	0.0	0.0	0.0	0.0	905.0	2.3	429.2
07/20/10	0.0	0.0	0.0	0.0	0.0	2.5	59.8	259.8	459.9	632.5	761.9	847.0	882.0	862.0	803.0	670.1	350.1	80.7	82.9	22.5	0.0	0.0	0.0	0.0	882.0	2.5	451.8
07/21/10	0.0	0.0	0.0	0.0	0.0	3.4	45.9	245.4	237.5	556.5	751.3	768.2	822.0	496.0	694.1	533.9	338.7	158.5	64.0	16.5	0.0	0.0	0.0	0.0	822.0	3.4	382.1
07/22/10	0.0	0.0	0.0	0.0	0.0	1.7	31.7	142.3	239.3	356.3	512.7	808.0	680.4	913.0	574.7	484.4	181.8	145.6	32.0	1.9	0.0	0.0	0.0	0.0	913.0	1.7	340.4
07/23/10	0.0	0.0	0.0	0.0	0.0	2.9	44.5	197.8	488.3	640.8	842.0	761.2	780.3	703.9	726.8	557.2	413.2	54.0	69.0	9.0	0.0	0.0	0.0	0.0	842.0	2.9	419.4
07/24/10	0.0	0.0	0.0	0.0	0.0	2.4	51.0	250.7	377.0	406.9	274.5	269.9	760.9	622.8	729.6	605.9	217.2	20.1	9.3	9.9	0.0	0.0	0.0	0.0	760.9	2.4	307.2
07/25/10	0.0	0.0	0.0	0.0	0.0	1.9	48.3	243.7	453.0	649.1	772.4	772.6	925.0	487.9	341.2	425.9	339.3	88.9	49.6	5.1	0.0	0.0	0.0	0.0	925.0	1.9	373.6
07/26/10	0.0	0.0	0.0	0.0	0.0	1.8	45.9	90.7	188.7	293.9	434.2	493.9	510.1	702.6	542.0	589.2	275.1	127.9	76.1	7.8	0.0	0.0	0.0	0.0	702.6	1.8	292.0
07/27/10	0.0	0.0	0.0	0.0	0.0	0.9	19.5	125.6	372.2	378.7	501.8	920.0	270.2	320.1	825.0	289.3	135.0	110.7	56.3	9.4	0.0	0.0	0.0	0.0	920.0	0.9	289.0
07/28/10	0.0	0.0	0.0	0.0	0.0	1.6	49.5	238.4	414.1	167.0	208.1	285.1	845.0	781.5	521.9	673.4	82.9	5.1	5.3	9.8	0.0	0.0	0.0	0.0	845.0	1.6	285.9
07/29/10	0.0	0.0	0.0	0.0	0.0	3.3	47.0	179.0	268.9	384.0	668.4	910.0	795.1	579.4	756.9	438.2	91.2	59.4	27.8	3.7	0.0	0.0	0.0	0.0	910.0	3.3	347.5
07/30/10	0.0	0.0	0.0	0.0	0.0	17.6	97.7	161.2	479.1	662.3	361.8	417.1	615.9	570.5	864.0	620.4	279.1	35.7	17.8	3.3	0.0	0.0	0.0	0.0	864.0	3.3	346.9
07/31/10	0.0	0.0	0.0	0.0	0.0	1.2	11.6	27.4	69.4	148.5	251.6	422.6	367.7	550.4	535.8	319.8	73.0	44.6	24.2	8.0	0.0	0.0	0.0	0.0	550.4	1.2	190.4
Hourly Averages	0.0	0.0	0.0	0.0	0.0	3.9	50.7	211.8	402.9	539.9	653.1	746.1	801.6	732.6	697.8	573.0	310.8	101.0	69.6	16.6	0.0	0.0	0.0	0.0			

Maximum Hourly Radiation: 934.0 **Minimum Hourly Radiation:** 0.9 **Average Monthly Radiation:** 394.1

Maximum 24-Hour Mean: 491.7 **Minimum 24-Hour Mean:** 190.4

Total Number of Observations: 744 **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

AUGUST 2010

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
08/01/10	0.0	0.0	0.0	0.0	0.0	0.7	28.0	72.6	122.9	334.4	611.0	710.7	546.2	765.4	603.5	491.9	398.3	54.1	44.7	8.3	0.0	0.0	0.0	0.0	765.4	0.7	319.5
08/02/10	0.0	0.0	0.0	0.0	0.0	1.5	42.5	219.2	447.1	532.5	457.3	676.7	879.0	862.0	724.0	650.4	385.4	55.8	48.4	8.3	0.0	0.0	0.0	0.0	879.0	1.5	399.3
08/03/10	0.0	0.0	0.0	0.0	0.0	1.3	33.2	214.2	412.0	634.0	771.7	861.0	891.0	867.0	799.9	677.9	406.6	28.3	47.4	8.2	0.0	0.0	0.0	0.0	891.0	1.3	443.6
08/04/10	0.0	0.0	0.0	0.0	0.0	1.3	37.1	216.8	446.5	621.3	760.9	851.0	893.0	774.2	705.3	687.7	415.6	28.0	50.6	7.3	0.0	0.0	0.0	0.0	893.0	1.3	433.1
08/05/10	0.0	0.0	0.0	0.0	0.0	1.1	36.7	209.0	441.2	613.0	751.3	843.0	879.0	871.0	755.7	682.2	422.1	31.0	60.2	7.8	0.0	0.0	0.0	0.0	879.0	1.1	440.3
08/06/10	0.0	0.0	0.0	0.0	0.0	1.1	35.6	225.5	359.4	619.8	563.8	816.0	744.0	656.8	749.5	583.6	297.1	105.0	26.5	5.4	0.0	0.0	0.0	0.0	816.0	1.1	385.9
08/07/10	0.0	0.0	0.0	0.0	0.0	0.9	21.3	67.6	119.1	263.2	304.6	411.0	646.9	854.0	824.0	682.3	401.9	98.2	52.6	6.3	0.0	0.0	0.0	0.0	854.0	0.9	316.9
08/08/10	0.0	0.0	0.0	0.0	0.0	0.2	32.1	177.0	360.7	622.6	727.9	857.0	575.0	701.7	674.1	462.4	467.3	75.7	67.0	10.5	0.0	0.0	0.0	0.0	857.0	0.2	387.4
08/09/10	0.0	0.0	0.0	0.0	0.0	0.9	20.6	108.1	402.8	616.6	758.7	833.0	452.3	531.7	335.5	366.8	341.3	62.2	41.2	5.7	0.0	0.0	0.0	0.0	833.0	0.9	325.2
08/10/10	0.0	0.0	0.0	0.0	0.0	0.9	29.6	208.7	434.1	613.7	753.1	845.0	884.0	760.6	805.0	680.4	451.8	32.4	32.2	3.7	0.0	0.0	0.0	0.0	884.0	0.9	435.7
08/11/10	0.0	0.0	0.0	0.0	0.0	0.9	47.5	206.9	353.5	583.5	742.9	839.0	873.0	868.0	798.5	661.9	451.3	33.4	28.9	4.1	0.0	0.0	0.0	0.0	873.0	0.9	432.9
08/12/10	0.0	0.0	0.0	0.0	0.0	0.8	25.8	205.8	424.6	603.8	746.5	838.0	874.0	853.0	778.7	657.3	452.3	34.6	25.6	3.9	0.0	0.0	0.0	0.0	874.0	0.8	435.0
08/13/10	0.0	0.0	0.0	0.0	0.0	0.7	34.3	221.2	438.7	610.5	753.9	846.0	881.0	861.0	784.8	663.0	463.3	35.2	25.4	3.5	0.0	0.0	0.0	0.0	881.0	0.7	441.5
08/14/10	0.0	0.0	0.0	0.0	0.0	1.0	36.1	232.5	429.5	604.5	735.6	849.0	823.0	838.0	782.8	662.9	452.3	46.0	26.0	2.7	0.0	0.0	0.0	0.0	849.0	1.0	434.8
08/15/10	0.0	0.0	0.0	0.0	0.0	0.4	21.9	105.8	328.3	440.8	644.1	829.0	863.0	843.0	767.7	652.7	483.8	73.4	105.9	19.1	0.0	0.0	0.0	0.0	863.0	0.4	411.9
08/16/10	0.0	0.0	0.0	0.0	0.0	0.3	33.9	107.6	293.0	549.3	702.0	807.0	879.0	736.4	816.0	693.1	229.4	108.1	39.2	1.8	0.0	0.0	0.0	0.0	879.0	0.3	399.7
08/17/10	0.0	0.0	0.0	0.0	0.0	0.4	18.2	177.6	424.1	603.6	710.2	603.3	744.0	769.6	623.7	443.6	114.4	28.7	0.9	0.1	0.0	0.0	0.0	0.0	769.6	0.1	350.8
08/18/10	0.0	0.0	0.0	0.0	0.0	0.6	20.0	196.4	420.7	598.1	740.4	830.0	867.0	854.0	776.7	652.0	488.1	38.7	27.9	2.3	0.0	0.0	0.0	0.0	867.0	0.6	434.2
08/19/10	0.0	0.0	0.0	0.0	0.0	0.4	16.3	199.6	421.8	598.0	743.2	839.0	875.0	852.0	773.5	647.6	480.9	55.4	34.1	2.3	0.0	0.0	0.0	0.0	875.0	0.4	435.9
08/20/10	0.0	0.0	0.0	0.0	0.0	0.4	17.8	195.8	416.5	594.7	733.1	833.0	872.0	851.0	771.9	647.5	483.5	63.4	35.6	2.1	0.0	0.0	0.0	0.0	872.0	0.4	434.6
08/21/10	0.0	0.0	0.0	0.0	0.0	0.3	15.0	187.3	400.2	586.2	728.4	820.0	680.6	726.1	707.6	408.9	525.4	133.1	21.3	1.4	0.0	0.0	0.0	0.0	820.0	0.3	396.1
08/22/10	0.0	0.0	0.0	0.0	0.0	0.3	20.3	180.1	385.4	569.6	725.8	817.0	855.0	843.0	787.1	602.8	471.0	84.7	45.5	2.7	0.0	0.0	0.0	0.0	855.0	0.3	426.0
08/23/10	0.0	0.0	0.0	0.0	0.0	0.3	15.4	196.4	409.0	590.1	736.0	819.0	867.0	850.0	768.4	643.4	480.1	99.1	40.0	1.9	0.0	0.0	0.0	0.0	867.0	0.3	434.4
08/24/10	0.0	0.0	0.0	0.0	0.0	0.3	18.5	212.2	419.5	597.3	744.2	839.0	843.0	847.0	802.0	116.0	28.4	36.0	20.4	0.4	0.0	0.0	0.0	0.0	847.0	0.3	368.3
08/25/10	0.0	0.0	0.0	0.0	0.0	0.2	12.4	167.2	224.3	437.5	591.2	548.9	836.0	835.0	755.1	631.2	457.2	122.2	41.2	1.1	0.0	0.0	0.0	0.0	836.0	0.2	377.4
08/26/10	0.0	0.0	0.0	0.0	0.0	0.2	23.7	199.8	449.7	383.4	377.3	467.9	343.0	647.0	511.8	552.7	354.7	127.5	37.7	0.4	0.0	0.0	0.0	0.0	647.0	0.2	298.5
08/27/10	0.0	0.0	0.0	0.0	0.0	0.1	10.7	117.4	295.1	297.2	614.3	584.0	684.5	842.0	633.1	445.6	213.3	96.2	33.3	0.2	0.0	0.0	0.0	0.0	842.0	0.1	324.5
08/28/10	0.0	0.0	0.0	0.0	0.0	0.2	32.6	145.2	348.4	427.2	721.0	612.0	529.0	662.0	492.0	575.6	272.3	194.7	7.3	0.4	0.0	0.0	0.0	0.0	721.0	0.2	334.7
08/29/10	0.0	0.0	0.0	0.0	0.0	0.2	10.5	148.1	285.5	603.6	678.4	771.3	547.4	243.8	698.0	540.2	348.7	213.2	54.6	1.2	0.0	0.0	0.0	0.0	771.3	0.2	343.0
08/30/10	0.0	0.0	0.0	0.0	0.0	0.1	13.7	108.2	174.3	413.2	700.3	763.7	334.2	744.2	546.1	525.9	471.0	166.2	25.0	0.7	0.0	0.0	0.0	0.0	763.7	0.1	332.5
08/31/10	0.0	0.0	0.0	0.0	0.0	0.1	7.6	33.5	298.5	479.0	408.9	523.1	783.2	690.6	635.8	594.0	459.6	160.9	20.9	0.6	0.0	0.0	0.0	0.0	783.2	0.1	339.7
Hourly Averages	0.0	0.0	0.0	0.0	0.0	0.6	24.8	169.8	360.9	536.8	669.0	754.3	749.8	771.0	709.3	580.1	392.5	81.3	37.7	4.0	0.0	0.0	0.0	0.0			

Maximum Hourly Radiation: 893.0 **Minimum Hourly Radiation:** 0.1 **Average Monthly Radiation:** 389.5

Maximum 24-Hour Mean: 443.6 **Minimum 24-Hour Mean:** 298.5

Total Number of Observations: 744 **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

SEPTEMBER 2010

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
09/01/10	0.0	0.0	0.0	0.0	0.0	0.0	9.7	188.5	417.0	597.7	744.2	837.0	874.0	849.0	773.9	640.6	466.8	170.0	18.2	0.5	0.0	0.0	0.0	0.0	874.0	0.0	387.5
09/02/10	0.0	0.0	0.0	0.0	0.0	0.0	9.7	190.0	424.9	609.3	754.6	844.0	876.0	851.0	765.6	631.5	456.4	173.8	15.9	0.4	0.0	0.0	0.0	0.0	876.0	0.0	388.4
09/03/10	0.0	0.0	0.0	0.0	0.0	0.0	10.8	193.6	375.4	600.8	745.6	843.0	775.4	818.0	764.7	639.6	384.3	93.0	27.7	0.3	0.0	0.0	0.0	0.0	843.0	0.0	369.0
09/04/10	0.0	0.0	0.0	0.0	0.0	0.0	11.2	173.9	397.6	580.5	724.8	818.0	848.0	836.0	760.5	629.3	450.7	187.1	15.5	0.3	0.0	0.0	0.0	0.0	848.0	0.0	378.4
09/05/10	0.0	0.0	0.0	0.0	0.0	0.0	10.2	170.1	404.1	587.8	732.5	826.0	859.0	831.0	753.7	614.4	442.2	190.3	17.4	0.2	0.0	0.0	0.0	0.0	859.0	0.0	378.8
09/06/10	0.0	0.0	0.0	0.0	0.0	0.0	19.9	166.4	314.3	582.6	606.4	780.0	812.0	843.0	433.9	94.8	187.4	198.8	15.0	0.2	0.0	0.0	0.0	0.0	843.0	0.0	297.3
09/07/10	0.0	0.0	0.0	0.0	0.0	0.0	9.8	146.0	392.0	572.3	720.7	684.1	625.5	806.0	728.0	574.9	373.1	96.9	12.7	0.2	0.0	0.0	0.0	0.0	806.0	0.0	337.8
09/08/10	0.0	0.0	0.0	0.0	0.0	0.0	11.7	116.7	214.4	262.4	567.6	665.6	725.6	635.7	370.6	600.1	437.0	194.4	24.6	0.1	0.0	0.0	0.0	0.0	725.6	0.0	283.9
09/09/10	0.0	0.0	0.0	0.0	0.0	0.0	15.4	165.2	403.8	586.4	739.1	847.0	872.0	630.7	681.2	598.5	449.2	202.0	22.5	0.1	0.0	0.0	0.0	0.0	872.0	0.0	365.5
09/10/10	0.0	0.0	0.0	0.0	0.0	0.0	8.8	169.4	418.3	616.0	765.5	860.0	890.0	860.0	769.4	632.2	491.5	222.3	20.8	0.1	0.0	0.0	0.0	0.0	890.0	0.0	395.5
09/11/10	0.0	0.0	0.0	0.0	0.0	0.0	8.2	169.2	424.5	611.0	755.9	854.0	807.0	753.6	789.0	525.2	314.5	102.2	10.7	0.1	0.0	0.0	0.0	0.0	854.0	0.0	360.3
09/12/10	0.0	0.0	0.0	0.0	0.0	0.0	8.6	149.7	422.8	588.3	739.1	821.0	804.0	845.0	574.8	658.8	556.0	185.0	16.7	0.1	0.0	0.0	0.0	0.0	845.0	0.0	374.7
09/13/10	0.0	0.0	0.0	0.0	0.0	0.0	6.6	163.7	407.1	585.4	726.0	815.0	756.5	761.4	665.1	588.4	452.2	198.3	16.1	0.0	0.0	0.0	0.0	0.0	815.0	0.0	361.3
09/14/10	0.0	0.0	0.0	0.0	0.0	0.0	16.5	142.9	391.8	572.5	715.5	804.0	837.0	809.0	722.8	587.2	437.7	193.3	12.1	0.0	0.0	0.0	0.0	0.0	837.0	0.0	367.2
09/15/10	0.0	0.0	0.0	0.0	0.0	0.0	7.7	153.3	392.0	574.2	718.1	783.3	845.0	812.0	719.7	582.7	449.1	189.6	13.6	0.0	0.0	0.0	0.0	0.0	845.0	0.0	367.1
09/16/10	0.0	0.0	0.0	0.0	0.0	0.0	7.3	152.3	395.7	578.2	721.8	815.0	849.0	819.0	724.1	585.4	444.6	191.8	13.8	0.0	0.0	0.0	0.0	0.0	849.0	0.0	370.5
09/17/10	0.0	0.0	0.0	0.0	0.0	0.0	6.9	152.1	391.0	582.1	726.8	816.0	849.0	826.0	734.7	596.8	457.2	193.7	13.0	0.0	0.0	0.0	0.0	0.0	849.0	0.0	373.3
09/18/10	0.0	0.0	0.0	0.0	0.0	0.0	7.3	144.5	393.1	575.7	719.8	812.0	842.0	811.0	716.7	575.7	435.6	180.3	12.3	0.0	0.0	0.0	0.0	0.0	842.0	0.0	366.2
09/19/10	0.0	0.0	0.0	0.0	0.0	0.0	7.5	136.0	378.1	557.8	699.5	786.0	820.0	815.0	673.4	603.2	377.6	173.5	10.6	0.0	0.0	0.0	0.0	0.0	820.0	0.0	355.2
09/20/10	0.0	0.0	0.0	0.0	0.0	0.0	11.2	164.2	334.3	345.6	295.6	306.0	532.1	784.6	687.6	551.0	415.8	161.5	10.6	0.0	0.0	0.0	0.0	0.0	784.6	0.0	270.6
09/21/10	0.0	0.0	0.0	0.0	0.0	0.0	15.1	104.3	342.8	519.6	670.7	770.1	821.0	778.9	504.3	526.2	182.1	151.0	4.0	0.0	0.0	0.0	0.0	0.0	821.0	0.0	317.1
09/22/10	0.0	0.0	0.0	0.0	0.0	0.0	3.4	38.8	43.2	127.1	155.3	331.6	434.5	325.9	232.1	431.4	129.5	87.4	13.6	0.0	0.0	0.0	0.0	0.0	434.5	0.0	138.5
09/23/10	0.0	0.0	0.0	0.0	0.0	0.0	7.3	131.8	378.0	559.9	712.3	805.0	827.0	794.1	701.3	559.1	411.6	158.7	9.0	0.0	0.0	0.0	0.0	0.0	827.0	0.0	356.2
09/24/10	0.0	0.0	0.0	0.0	0.0	0.0	6.0	128.8	374.9	553.0	698.9	786.8	812.0	786.2	689.0	547.5	406.6	152.7	8.3	0.0	0.0	0.0	0.0	0.0	812.0	0.0	350.0
09/25/10	0.0	0.0	0.0	0.0	0.0	0.0	5.9	128.9	380.1	561.4	702.3	783.8	809.0	780.4	685.4	575.4	351.0	144.6	6.8	0.0	0.0	0.0	0.0	0.0	809.0	0.0	347.9
09/26/10	0.0	0.0	0.0	0.0	0.0	0.0	6.1	119.2	362.2	545.7	684.8	779.6	807.0	771.4	678.9	532.3	387.3	132.7	7.0	0.0	0.0	0.0	0.0	0.0	807.0	0.0	342.0
09/27/10	0.0	0.0	0.0	0.0	0.0	0.0	5.6	116.7	364.3	547.0	688.9	775.6	801.0	765.2	678.0	530.3	415.8	93.3	6.6	0.0	0.0	0.0	0.0	0.0	801.0	0.0	340.5
09/28/10	0.0	0.0	0.0	0.0	0.0	0.0	9.4	96.4	369.6	558.9	685.8	791.2	743.8	815.0	665.1	418.1	262.6	72.6	6.6	0.0	0.0	0.0	0.0	0.0	815.0	0.0	323.2
09/29/10	0.0	0.0	0.0	0.0	0.0	0.0	5.3	112.3	363.9	545.7	686.6	772.7	798.0	761.4	664.5	521.3	366.0	115.6	3.8	0.0	0.0	0.0	0.0	0.0	798.0	0.0	336.3
09/30/10	0.0	0.0	0.0	0.0	0.0	0.0	5.4	108.1	357.1	537.5	678.0	768.1	799.9	764.1	666.1	500.4	354.7	116.0	4.2	0.0	0.0	0.0	0.0	0.0	799.9	0.0	332.9
Hourly Averages	0.0	0.0	0.0	0.0	0.0	0.0	9.1	143.1	367.6	540.7	676.1	766.1	791.7	778.0	665.8	555.1	391.5	157.4	13.0	0.1	0.0	0.0	0.0	0.0			

Maximum Hourly Radiation: 890.0 **Minimum Hourly Radiation:** 0.0 **Average Monthly Radiation:** 344.4

Maximum 24-Hour Mean: 395.5 **Minimum 24-Hour Mean:** 138.5

Total Number of Observations: 720 **Possible Number of Observations:** 720 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

JULY 2010

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
07/01/10	0.000	0.003	0.003	0.000	0.005	0.005	0.005	0.003	0.003	0.002	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.010	0.002	0.000	0.000	0.046
07/02/10	0.003	0.003	0.005	0.003	0.000	0.018	0.005	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.002	0.002	0.000	0.000	0.053
07/03/10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.003	0.003	0.000	0.003	0.005	0.003	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.021
07/04/10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003	0.000	0.003	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012
07/05/10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003	0.003	0.002	0.003	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.017
07/06/10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	INV	0.033	0.036	0.042	0.042	0.064	0.051	0.058	0.048	0.043	0.021	0.022	0.014	0.015	0.489
07/07/10	0.015	0.012	0.010	0.010	0.010	0.007	0.007	0.001	0.001	0.014	0.014	0.014	0.031	0.046	0.067	0.053	0.043	0.051	0.048	0.053	0.037	0.020	0.015	0.020	0.599
07/08/10	0.008	0.013	0.017	0.010	0.013	0.018	0.020	0.006	0.019	0.004	0.036	0.031	0.026	0.036	0.042	0.046	0.038	0.084	0.039	0.045	0.018	0.020	0.025	0.036	0.650
07/09/10	0.018	0.020	0.031	0.015	0.028	0.023	0.002	0.011	0.016	0.026	0.013	0.029	0.039	0.051	0.036	0.042	0.042	0.025	0.020	0.017	0.013	0.022	0.010	0.007	0.556
07/10/10	0.015	0.010	0.007	0.015	0.028	0.033	0.010	0.011	0.021	0.019	0.006	0.013	0.027	0.036	0.051	0.072	0.000	0.011	0.020	0.016	0.010	0.016	0.005	0.007	0.459
07/11/10	0.013	0.010	0.003	0.008	0.008	0.007	0.002	0.000	0.000	0.001	0.009	0.010	0.013	0.031	0.021	0.059	0.056	0.054	0.042	0.030	0.023	0.002	0.008	0.012	0.422
07/12/10	0.010	0.010	0.008	0.007	0.005	0.005	0.005	0.000	0.002	0.001	0.026	0.026	0.039	0.044	0.054	0.061	0.071	0.046	0.048	0.035	0.017	0.010	0.010	0.010	0.550
07/13/10	0.010	0.008	0.008	0.008	0.005	0.005	0.000	0.002	0.006	0.013	0.023	0.041	0.031	0.049	0.046	0.048	0.043	0.041	0.038	0.033	0.010	0.007	0.013	0.010	0.498
07/14/10	0.013	0.010	0.007	0.005	0.003	0.003	0.003	INV	0.002	0.005	0.003	0.009	0.014	0.021	0.000	0.033	0.003	0.014	0.028	0.033	0.009	0.007	0.010	0.018	0.253
07/15/10	0.007	0.013	0.007	0.010	0.008	0.010	0.008	0.001	0.005	0.008	0.012	0.022	0.023	0.038	0.054	0.044	0.056	0.079	0.093	0.032	0.025	0.018	0.022	0.032	0.627
07/16/10	0.010	0.020	0.013	0.028	0.008	0.036	0.002	0.003	0.006	0.003	0.008	0.023	0.013	0.012	0.029	0.021	0.039	0.035	0.044	0.037	0.079	0.039	0.000	0.001	0.509
07/17/10	0.010	0.010	0.003	0.007	0.003	0.003	0.003	0.001	0.002	0.000	0.013	0.014	0.021	0.036	0.047	0.038	0.046	0.053	0.047	0.035	0.027	0.023	0.017	0.017	0.476
07/18/10	0.025	0.005	0.010	0.008	0.005	0.005	0.005	0.000	0.004	0.011	0.023	0.038	0.046	0.054	0.049	0.048	0.048	0.046	0.046	0.019	0.015	0.010	0.030	0.017	0.567
07/19/10	0.010	0.013	0.007	0.008	0.008	0.005	0.003	0.003	0.006	0.011	0.021	0.028	0.039	0.056	0.047	0.066	0.048	0.045	0.036	0.035	0.025	0.008	0.025	0.023	0.576
07/20/10	0.018	0.041	0.020	0.004	0.003	0.005	0.003	0.002	0.001	0.006	0.013	0.026	0.036	0.041	0.054	0.064	0.043	0.061	0.035	0.030	0.023	0.012	0.010	0.010	0.561
07/21/10	0.010	0.010	0.010	0.010	0.008	0.008	0.005	0.000	0.006	0.016	0.023	0.038	0.031	0.000	0.031	0.028	0.031	0.028	0.036	0.018	0.007	0.031	0.015	0.000	0.400
07/22/10	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.003	0.010	0.002	0.003	0.008	0.008	0.011	0.021	0.023	0.048	0.017	0.007	0.000	0.007	0.005	0.008	0.005	0.206
07/23/10	0.005	0.002	0.005	0.000	0.000	0.003	0.002	0.002	0.002	0.001	0.002	0.028	0.033	0.038	0.031	0.031	0.043	0.028	0.033	0.020	0.017	0.010	0.010	0.007	0.353
07/24/10	0.008	0.013	0.003	0.002	0.005	0.003	0.005	0.003	0.000	0.003	0.005	0.008	0.001	0.015	0.018	0.031	0.000	0.000	0.000	0.000	0.018	0.013	0.005	0.008	0.167
07/25/10	0.010	0.002	0.005	0.005	0.015	0.005	0.003	0.003	0.000	0.003	0.001	0.010	0.016	0.054	0.025	0.010	0.048	0.035	0.015	0.010	0.002	0.018	0.015	0.023	0.333
07/26/10	0.015	0.003	0.005	0.005	0.036	0.015	0.003	0.013	0.005	0.003	0.002	0.003	0.008	0.013	0.018	0.028	0.020	0.025	0.010	0.036	0.015	0.041	0.005	0.005	0.332
07/27/10	0.005	0.003	0.003	0.005	0.008	0.008	0.003	0.000	0.000	0.021	0.000	INV	0.012	0.015	0.001	0.020	0.030	0.020	0.015	0.013	0.033	0.000	0.005	0.005	0.225
07/28/10	0.005	0.008	0.005	0.005	0.005	0.003	0.000	0.002	0.003	0.008	0.013	0.008	0.003	0.013	0.025	0.028	0.000	0.000	0.003	0.000	0.005	0.005	0.005	0.003	0.155
07/29/10	0.008	0.013	0.003	0.005	0.005	0.005	0.005	0.002	0.001	0.003	0.003	0.007	0.008	0.013	0.019	0.038	0.034	0.014	0.010	0.010	0.007	0.008	0.008	0.003	0.232
07/30/10	0.003	0.010	0.000	0.000	0.000	0.003	0.000	0.000	0.002	0.001	0.003	0.018	0.003	0.013	0.016	0.021	0.025	0.020	0.007	0.008	0.008	0.007	0.003	0.010	0.181
07/31/10	0.007	0.008	0.005	0.002	0.003	0.003	0.000	0.003	0.003	0.000	0.000	0.001	0.003	0.011	0.008	0.012	0.000	0.000	0.003	0.002	0.000	0.000	0.003	0.002	0.079

Total Evaporation for the month =10.604

Total Number of Observations: 741 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.009	0.005	0.015	0.019	0.020	0.026	0.033	0.020	0.017	0.010	0.005	0.007	0.005	0.198
08/02/10	0.008	0.003	0.005	0.005	0.003	0.015	0.003	0.005	0.001	0.001	0.005	0.011	0.008	0.021	0.036	0.038	0.043	0.028	0.031	0.017	0.012	0.010	0.013	0.010	0.332
08/03/10	0.010	0.005	0.008	0.008	0.013	0.005	0.005	0.001	0.002	0.001	0.005	0.018	0.028	0.028	0.041	0.038	0.038	0.056	0.035	0.023	0.015	0.017	0.015	0.010	0.425
08/04/10	0.010	0.008	0.008	0.010	0.010	0.008	0.013	0.008	0.003	0.001	0.013	0.018	0.031	0.041	0.038	0.036	0.051	0.048	0.038	0.020	0.020	0.020	0.015	0.012	0.480
08/05/10	0.023	0.008	0.013	0.010	0.015	0.008	0.002	INV	0.002	0.007	INV	0.022	0.022	0.044	0.054	0.046	0.051	0.040	0.035	0.026	0.082	0.070	0.050	0.031	0.661
08/06/10	0.022	0.005	0.009	0.010	0.015	0.028	0.010	0.031	0.004	0.005	0.011	0.016	0.037	0.028	0.036	0.038	0.041	0.043	0.029	0.025	0.019	0.028	0.012	0.017	0.519
08/07/10	0.026	0.020	0.022	0.007	0.010	0.013	0.020	0.003	0.001	0.003	0.013	0.003	0.006	0.012	0.026	0.029	0.033	0.030	0.025	0.022	0.015	0.013	0.010	0.000	0.362
08/08/10	0.004	0.030	0.000	0.013	0.015	0.002	0.000	0.005	0.001	0.001	0.001	0.007	0.026	0.015	0.027	0.022	0.031	0.053	0.036	0.029	0.030	0.030	0.020	0.010	0.408
08/09/10	0.015	0.007	0.010	0.007	0.007	0.008	0.005	0.003	0.001	0.002	0.012	0.021	0.023	0.031	0.020	0.026	0.033	0.029	0.022	0.022	0.014	0.015	0.013	0.023	0.369
08/10/10	0.013	0.013	0.013	0.007	0.010	0.010	0.013	0.001	0.001	0.001	0.006	0.019	0.028	0.036	0.039	0.041	0.066	0.043	0.038	0.030	0.012	0.015	0.025	0.013	0.493
08/11/10	0.013	0.010	0.010	0.007	0.010	0.008	0.008	0.002	0.001	0.004	0.023	0.014	0.028	0.031	0.046	0.049	0.058	0.041	0.033	0.020	0.013	0.012	0.010	0.013	0.464
08/12/10	0.010	0.008	0.008	0.013	0.007	0.010	0.008	0.002	0.004	0.004	0.016	0.031	0.031	0.039	0.059	0.036	0.045	0.056	0.048	0.015	0.015	0.010	0.007	0.010	0.492
08/13/10	0.010	0.015	0.010	0.010	0.010	0.008	0.005	0.003	0.001	0.011	0.018	0.023	0.036	0.043	0.051	0.041	0.048	0.053	0.041	0.028	0.012	0.010	0.010	0.010	0.507
08/14/10	0.010	0.008	0.008	0.010	0.010	0.010	0.005	0.002	0.006	0.011	0.018	0.023	0.031	0.039	0.054	0.046	0.046	0.046	0.038	0.023	0.010	0.010	0.007	0.010	0.481
08/15/10	0.008	0.005	0.008	0.008	0.010	0.003	0.003	0.010	0.003	0.018	0.008	0.028	0.036	0.039	0.043	0.056	0.053	0.036	0.046	0.018	0.020	0.030	0.023	0.020	0.532
08/16/10	0.015	0.005	0.020	0.005	0.013	0.002	0.000	0.000	0.008	0.000	0.031	0.023	0.021	0.033	0.033	0.041	0.066	0.025	0.020	0.013	0.008	0.010	0.008	0.003	0.403
08/17/10	0.003	0.005	0.000	0.003	0.000	0.003	0.000	0.000	0.000	0.003	0.000	0.005	0.003	0.005	0.005	0.002	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055
08/18/10	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003
08/19/10	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	0.000	0.000	0.000	0.000	0.000	0.000
08/20/10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.029	0.028	0.028	0.031	0.035	0.043	0.036	0.030	0.022	0.009	0.008	0.007	0.005	0.311
08/21/10	0.005	0.007	0.005	0.008	0.005	0.005	0.003	0.000	0.002	0.006	0.008	0.028	0.023	0.036	0.028	0.043	0.046	0.038	0.025	0.038	0.010	0.023	0.000	0.000	0.392
08/22/10	0.000	0.041	0.044	0.026	0.010	0.003	0.010	0.002	0.001	0.001	0.003	0.006	0.013	0.016	0.036	0.023	0.028	0.028	0.026	0.017	0.007	0.010	0.007	0.008	0.366
08/23/10	0.008	0.005	0.005	0.003	0.005	0.005	0.008	0.002	0.001	0.001	0.003	0.013	0.013	0.029	0.043	0.038	0.035	0.048	0.043	0.015	0.012	0.013	0.010	0.012	0.370
08/24/10	0.010	0.013	0.007	0.013	0.008	0.005	0.008	0.003	0.006	0.016	0.013	0.013	0.031	0.026	0.033	0.051	0.040	0.025	0.020	0.038	0.023	0.056	0.007	0.013	0.478
08/25/10	0.010	0.018	0.013	0.005	0.010	0.015	0.015	0.013	0.005	0.010	0.018	0.021	0.034	0.049	0.038	0.043	0.048	0.046	0.040	0.013	0.025	0.013	0.005	0.026	0.533
08/26/10	0.023	0.008	0.008	0.028	0.008	0.018	0.003	0.028	0.013	0.010	0.015	INV	0.026	0.024	0.019	0.013	0.020	0.020	0.017	0.020	0.010	0.008	0.005	0.008	0.352
08/27/10	0.005	0.008	0.005	0.018	0.016	0.000	0.000	0.013	0.014	0.003	0.001	0.000	0.008	0.019	0.022	0.021	0.029	0.020	0.025	0.027	0.020	0.020	0.013	0.007	0.314
08/28/10	0.010	0.008	0.005	0.005	0.008	0.005	0.010	0.000	0.002	0.003	0.004	0.008	0.018	0.021	0.031	0.018	0.059	0.030	0.020	0.025	0.025	0.017	0.010	0.012	0.354
08/29/10	0.005	0.002	0.005	0.002	0.003	0.005	0.002	0.005	0.004	0.001	0.009	0.018	0.013	0.000	0.026	0.033	0.018	0.031	0.035	0.013	0.015	0.013	0.015	0.008	0.281
08/30/10	0.005	0.005	0.005	0.002	0.008	0.007	0.002	0.000	0.000	0.001	0.003	0.011	0.018	0.018	0.021	0.031	0.031	0.040	0.028	0.023	0.012	0.013	0.005	0.007	0.296
08/31/10	0.005	0.003	0.005	0.005	0.005	0.000	0.007	0.005	0.001	0.003	0.008	0.011	0.016	0.015	0.021	0.033	0.043	0.046	0.025	0.015	0.015	0.010	0.013	0.010	0.320

Total Evaporation for the month =11.551

Total Number of Observations: 741 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	0.005	0.008	0.005	0.005	0.005	0.008	0.000	0.002	0.001	0.011	0.008	INV	0.028	0.034	0.038	0.036	0.051	0.040	0.040	0.021	0.017	0.017	0.015	0.012	0.407
09/02/10	0.012	0.010	0.010	0.010	0.005	0.008	0.005	0.001	0.003	0.023	0.006	0.021	0.024	0.030	0.031	0.038	0.043	0.073	0.039	0.027	0.014	0.014	0.014	0.008	0.469
09/03/10	0.010	0.010	0.010	0.013	0.012	0.010	0.022	0.026	0.019	0.027	0.011	0.016	0.034	0.033	0.045	0.041	0.047	0.037	0.040	0.053	0.037	0.018	0.041	0.017	0.629
09/04/10	0.023	0.005	0.005	0.023	0.023	0.003	0.007	0.003	0.001	0.011	0.014	0.016	0.018	0.034	0.039	0.056	0.047	0.028	0.019	0.020	0.022	0.017	0.017	0.018	0.469
09/05/10	0.015	0.016	0.018	0.025	0.023	0.013	0.005	0.005	0.001	0.004	0.023	0.019	0.023	0.041	0.051	0.053	0.043	0.038	0.040	0.019	0.015	0.015	0.010	0.015	0.530
09/06/10	0.010	0.007	0.007	0.005	0.007	0.002	0.005	0.001	0.002	0.001	0.016	0.018	0.024	0.033	0.064	0.000	0.000	0.021	0.017	0.015	0.013	0.008	0.007	0.005	0.288
09/07/10	0.005	0.002	0.005	0.003	0.008	0.005	0.002	0.005	0.001	0.002	0.003	0.008	0.020	0.023	0.036	0.038	0.043	0.041	0.032	0.012	0.028	0.031	0.018	0.002	0.373
09/08/10	0.013	0.005	0.005	0.002	0.003	0.003	0.003	0.003	INV	0.006	0.006	0.024	0.019	0.037	0.000	0.022	0.043	0.030	0.035	0.029	0.020	0.008	0.007	0.010	0.333
09/09/10	0.020	0.010	0.007	0.008	0.010	0.008	0.004	0.001	0.002	0.017	0.009	0.027	0.031	0.028	0.042	0.043	0.037	0.041	0.034	0.022	0.011	0.015	0.012	0.013	0.452
09/10/10	0.007	0.008	0.008	0.007	0.008	0.008	0.007	0.002	0.001	0.007	0.008	0.017	0.026	0.024	0.049	0.045	0.035	0.038	0.034	0.022	0.020	0.017	0.015	0.012	0.425
09/11/10	0.010	0.010	0.010	0.013	0.008	0.013	0.010	0.001	0.001	0.000	0.011	0.014	0.023	0.031	0.034	0.038	0.048	0.044	0.029	0.015	0.012	0.009	0.013	0.013	0.410
09/12/10	0.010	0.007	0.013	0.010	0.013	0.010	0.010	0.006	0.002	0.001	0.007	0.021	0.021	0.033	0.046	0.038	0.040	0.040	0.035	0.014	0.014	0.010	0.013	0.007	0.421
09/13/10	0.015	0.010	0.010	0.010	0.016	0.015	0.015	0.008	0.004	0.004	0.009	0.013	0.029	0.031	0.036	0.046	0.051	0.050	0.043	0.011	0.020	0.015	0.013	0.007	0.481
09/14/10	0.007	0.008	0.013	0.018	0.026	0.013	0.015	0.008	0.001	0.006	0.008	0.021	0.023	0.036	0.043	0.046	0.043	0.040	0.028	0.015	0.007	0.012	0.008	0.010	0.455
09/15/10	0.010	0.005	0.010	0.005	0.005	0.007	0.005	0.002	0.001	0.004	0.006	0.026	0.026	0.056	0.041	0.041	0.036	0.033	0.030	0.017	0.012	0.010	0.010	0.007	0.405
09/16/10	0.010	0.015	0.008	0.007	0.005	0.007	0.008	0.003	0.003	0.006	0.005	0.023	INV	0.031	0.048	0.046	0.032	0.038	0.035	0.010	0.012	0.015	0.012	0.012	0.391
09/17/10	0.023	0.013	0.017	0.010	0.011	0.010	0.015	0.004	0.004	0.002	0.009	0.019	0.026	0.036	0.033	0.041	0.071	0.045	0.032	0.014	0.020	0.017	0.020	0.015	0.507
09/18/10	0.015	0.009	0.013	0.021	0.029	0.018	0.018	0.013	0.011	0.017	0.011	0.014	0.030	0.026	0.033	0.041	0.071	0.055	0.037	0.021	0.018	0.015	0.017	0.021	0.574
09/19/10	0.021	0.023	0.012	0.023	0.029	0.010	0.018	0.010	0.009	0.014	0.013	0.024	0.021	0.037	0.046	0.051	0.047	0.040	0.035	0.031	0.022	0.022	0.028	0.026	0.612
09/20/10	0.030	0.018	0.005	0.013	0.045	0.010	0.043	0.003	0.016	0.021	0.008	0.013	0.008	0.019	0.031	0.026	0.041	0.040	0.030	0.017	0.012	0.010	0.010	0.015	0.484
09/21/10	0.015	0.005	0.007	0.005	0.002	0.003	0.008	0.000	0.004	0.001	0.009	0.016	0.021	0.023	0.043	0.041	0.035	0.033	0.030	0.017	0.015	0.017	0.007	0.004	0.361
09/22/10	0.003	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.003	0.004	0.005	0.010	0.015	0.015	0.010	0.013	0.012	0.000	0.000	0.000	0.002	0.101
09/23/10	0.002	0.000	0.005	0.002	0.003	0.002	0.002	0.002	0.001	0.001	0.003	0.011	0.011	0.019	0.013	0.018	0.020	0.030	0.022	0.017	0.012	0.012	0.010	0.010	0.228
09/24/10	0.010	0.008	0.005	0.005	0.005	0.005	0.005	0.000	0.002	0.001	0.001	INV	0.015	0.015	0.023	0.021	0.020	0.054	0.032	0.022	0.014	0.023	0.021	0.018	0.325
09/25/10	0.015	0.020	0.020	0.013	0.009	0.010	0.008	0.013	0.019	0.016	0.044	0.017	0.018	0.031	0.031	0.038	0.043	0.028	0.020	0.017	0.026	0.030	0.023	0.023	0.532
09/26/10	0.018	0.015	0.020	0.026	0.010	0.018	0.015	0.003	0.008	0.016	0.010	0.019	0.036	0.031	0.049	0.033	0.025	0.023	0.022	0.023	0.015	0.017	0.013	0.018	0.483
09/27/10	0.010	0.012	0.008	0.015	0.010	0.023	0.010	0.005	0.003	0.011	0.016	0.019	0.016	0.026	0.026	0.041	0.033	0.033	0.023	0.017	0.017	0.015	0.010	0.013	0.412
09/28/10	0.015	0.010	0.007	0.013	0.007	0.008	0.013	0.003	0.001	0.006	0.016	INV	0.034	0.021	0.033	0.045	0.028	0.022	0.015	0.017	0.017	0.010	0.018	0.018	0.377
09/29/10	0.012	0.012	0.009	0.015	0.013	0.020	0.013	0.003	0.000	0.002	0.007	0.010	0.019	0.029	0.036	0.036	0.038	0.035	0.034	0.014	0.017	0.015	0.015	0.012	0.416
09/30/10	0.015	0.013	0.008	0.007	0.013	0.008	0.010	0.003	0.012	0.004	0.002	0.024	0.029	0.036	0.049	0.043	0.038	0.035	0.025	0.019	0.020	0.033	0.028	0.015	0.489

Total Evaporation for the month =12.839

Total Number of Observations: 715 **Possible Number of Observations:** 720 INV = Invalid Data ND = No Data Collection

APPENDIX KC2-I

HOURLY PRECIPITATION DATA

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

JULY 2010

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
07/01/10	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
07/02/10	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
07/03/10	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
07/04/10	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
07/05/10	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
07/06/10	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
07/07/10	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
07/08/10	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
07/09/10	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
07/10/10	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	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
07/11/10	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
07/12/10	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
07/13/10	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
07/14/10	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	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
07/15/10	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
07/16/10	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	0.04	0.00	0.04
07/17/10	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
07/18/10	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
07/19/10	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
07/20/10	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
07/21/10	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	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11
07/22/10	0.06	0.13	0.12	0.08	0.03	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	0.00	0.01	0.00	0.00	0.00	0.00	0.44
07/23/10	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
07/24/10	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	0.02	0.13	0.01	0.01	0.00	0.00	0.00	0.00	0.17
07/25/10	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
07/26/10	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
07/27/10	0.00	0.00	0.00	0.00	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
07/28/10	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	0.76	0.42	0.00	0.01	0.00	0.00	0.00	0.00	1.19
07/29/10	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
07/30/10	0.00	0.00	0.17	0.09	0.01	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	0.00	0.00	0.00	0.00	0.28
07/31/10	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	0.07	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.09

Total Precipitation for the month = 2.58

Total Number of Observations: 742 **Possible Number of Observations:** 744 INV = Invalid Data ND = No Data Collection

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

AUGUST 2010

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
08/01/10	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
08/02/10	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
08/03/10	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
08/04/10	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
08/05/10	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
08/06/10	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
08/07/10	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	0.06	0.06
08/08/10	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
08/09/10	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
08/10/10	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
08/11/10	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
08/12/10	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
08/13/10	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
08/14/10	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
08/15/10	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
08/16/10	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
08/17/10	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	0.08	0.01	0.01	0.12	0.00	0.00	0.00	0.22
08/18/10	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
08/19/10	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
08/20/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.02
08/21/10	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	0.53	0.12	0.65
08/22/10	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
08/23/10	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
08/24/10	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
08/25/10	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
08/26/10	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
08/27/10	0.00	0.00	0.00	0.00	0.00	0.03	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	0.00	0.00	0.00	0.00	0.00	0.04
08/28/10	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
08/29/10	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	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
08/30/10	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
08/31/10	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

Total Precipitation for the month = 1.11

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

RESOLUTION COPPER - KC2 (WEST PLANT) MONITORING SITE

SEPTEMBER 2010

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
09/01/10	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
09/02/10	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
09/03/10	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
09/04/10	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
09/05/10	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
09/06/10	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	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
09/07/10	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
09/08/10	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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
09/09/10	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
09/10/10	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
09/11/10	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
09/12/10	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
09/13/10	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
09/14/10	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
09/15/10	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
09/16/10	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
09/17/10	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
09/18/10	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
09/19/10	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
09/20/10	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
09/21/10	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
09/22/10	0.00	0.00	0.03	0.01	0.03	0.02	0.02	0.04	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.01	0.00	0.00	0.38
09/23/10	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
09/24/10	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
09/25/10	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
09/26/10	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
09/27/10	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
09/28/10	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
09/29/10	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
09/30/10	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

Total Precipitation for the month = 0.48

Total Number of Observations: 720 **Possible Number of Observations:** 720 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

July 26-27, 2010

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AUGUST 4, 2010

TABLE OF CONTENTS

Page

1. INTRODUCTION B-1

2. DESCRIPTION OF PERFORMANCE AUDIT PROCEDURES B-3
   - 2.1 Wind Speed B-3
   - 2.2 Wind Direction B-4
   - 2.3 Differential Temperature B-4
   - 2.4 Relative Humidity B-4
   - 2.5 Temperature B-5
   - 2.6 Barometric Pressure B-5
   - 2.7 Solar Radiation B-5
   - 2.8 Evaporation B-5
   - 2.9 Precipitation B-5

3. PERFORMANCE AUDIT CRITERIA B-6

4. AUDIT RESULTS B-8

APPENDIX B-KC1: PERFORMANCE AUDIT RESULTS
APPENDIX B-KC2: PERFORMANCE AUDIT RESULTS
APPENDIX B-EQUIP: AUDIT EQUIPMENT CALIBRATION INFORMATION

LIST OF TABLES

Table 2.1 Monitoring Equipment Evaluated During The Audit B-3

Table 3.1 Performance Audit Criteria and EPA References B-7

Table 4.1 KC1 (East Plant) Performance Audit Result Summary B-9

Table 4.2 KC2 (West Plant) Performance Audit Result Summary B-10

LIST OF FIGURES

Figure 1.1 Map showing locations of KC1 and KC2 monitoring sites in Pinal County, Arizona. B-2

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 July 27, 2010 and July 26, 2010 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^{o} to 340^{o} at 30^{o} 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^{o} 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 (4795) manufactured by Matrix Solar Services Company. 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.

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
	0.97 % (at speeds > 5 m/s)	Pass
Wind Direction	Starting Torque* = 3.0 gm-cm	Pass
	Mean Absolute Error:	
	Alignment = 2.1°	Pass
	Sensor = 1.40°	Pass
2-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.1 °C	Pass
	Upscale Bath = 0.1 °C	Pass
10-meter Temperature	Mean Absolute Error:	
	Ice Bath = 0.0 °C	Pass
	Ambient Bath = 0.1 °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 = 2.1 %	Pass
Ambient Temperature	Mean Absolute Error = 0.2 °C	Pass
Barometric Pressure	Mean Absolute Error = 0.04 in-Hg	Pass
Solar Radiation	Mean Absolute Percent Error = 2.85 %	Pass
Evaporation	Mean Absolute Percent Error = 5.00 %	Pass
Precipitation	Mean Absolute Percent Error = 1.00 %	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* = 0.2 gm-cm	Pass
	Mean Absolute Error:	
	0.00 m/s (at speeds ≤ 5 m/s)	Pass
	1.50 % (at speeds > 5 m/s)	Pass
Wind Direction	Starting Torque* = 3.0 gm-cm	Pass
	Mean Absolute Error:	
	Alignment = 1.0°	Pass
	Sensor = 0.6°	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 = 0.06 °C	Pass
Relative Humidity	Mean Absolute Percent Error = 1.6 %	Pass
Ambient Temperature	Mean Absolute Error = 0.1 °C	Pass
Barometric Pressure	Mean Absolute Error = 0.03 in-Hg	Pass
Solar Radiation	Mean Absolute Percent Error = 2.89 %	Pass
Evaporation	Mean Absolute Percent Error = 3.00 %	Pass
Precipitation	Mean Absolute Percent Error = 3.00 %	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: 7/26/2010

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

WIND SPEED SENSOR INFORMATION

MAKE: Met One
MODEL: 014A
SERIAL #: A6938
START TIME: 11:10
END TIME: 14:10

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	11.25	NA	1.24
500	13.78	13.65	NA	-0.93
1000	27.11	27.65	NA	2.00
1500	40.44	40.45	NA	0.02
1700	45.77	45.64	NA	-0.29

AUDIT RESULTS

Mean Absolute Difference (WS ≤ 5 m/s):	0.00	PASS
Mean Absolute Percent Difference (WS > 5 m/s):	0.97	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: 7/26/2010

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

WIND DIRECTION SENSOR INFORMATION

MAKE: Met One
MODEL: 024A
SERIAL #: Invisible
START TIME: 11:10
END TIME: 14:10

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	64.6	1.4
136.0	135.8	0.2
280.0	283.6	-3.6
338.0	341.1	-3.1

MEAN ABSOLUTE DIFFERENCE: 2.1
RESULTS (PASS/FAIL): PASS

AS LEFT Sensor Response (Degrees)	Difference (Degrees)
64.8	-1.2
138.6	2.6
278.7	-1.3
337.4	-0.6

MEAN ABSOLUTE DIFFERENCE: 1.4
RESULTS (PASS/FAIL): PASS

SENSOR RESPONSE TEST

True Direction (Degrees)	Sensor Response (Degrees)	Difference (Response - True) (Degrees)
10	9.6	-0.4
40	39.5	-0.5
70	69.6	-0.4
100	100.8	0.8
130	131.0	1.0
160	161.8	1.8
190	192.1	2.1
220	222.3	2.3
250	252.9	2.9
280	280.8	0.8
310	311.7	1.7
340	342.2	2.2

AUDIT RESULTS

Mean Absolute Difference: 1.4 PASS

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

DELTA-T SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 7/26/10

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

TEMPERATURE SENSOR INFORMATION
10-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15048
START TIME: 11:30
END TIME: 14:10

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: 11:30
END TIME: 14:10

MAKE: Fisher Scientific
MODEL: 15-077-7
SERIAL #: 61554792
LAST CALIBRATION DATE: 02/27/10

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)
0.1	0.1	0.1	0.0	0.0	0.0
0.0	0.1	0.1	0.1	0.1	0.0
0.0	0.1	0.1	0.1	0.1	0.0
0.1	0.1	0.1	0.0	0.0	0.0
0.1	0.1	0.1	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

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)
33.4	33.5	33.5	0.1	0.1	0.0
33.4	33.5	33.5	0.1	0.1	0.0
33.4	33.5	33.5	0.1	0.1	0.0
33.5	33.5	33.5	0.0	0.0	0.0
33.3	33.4	33.4	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)
42.2	42.3	42.3	0.1	0.1	0.0
42.1	42.2	42.2	0.1	0.1	0.0
42.1	42.2	42.2	0.1	0.1	0.0
42.1	42.2	42.2	0.1	0.1	0.0
42.2	42.2	42.2	0.0	0.0	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: 7/26/10

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

TEMPERATURE SENSOR INFORMATION
10-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15048
START TIME: 11:30
END TIME: 14:10

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: 11:30
END TIME: 14:10

MAKE: Fisher Scientific
MODEL: 15-077-7
SERIAL #: 61554792
LAST CALIBRATION DATE: 02/27/10

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)
33.0	33.0	0.1	0.1	32.9	32.9
33.0	33.1	0.1	0.1	32.9	32.9
33.0	33.1	0.1	0.1	32.9	33.0
33.0	33.1	0.1	0.2	32.9	32.9
33.0	33.1	0.1	0.1	32.9	32.9

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)
32.9	33.0	0.1	0.0	32.9	33.0
32.8	33.0	0.0	0.0	32.8	33.0
32.8	32.9	0.1	0.1	32.7	32.8
32.8	32.8	0.1	0.2	32.7	32.7
32.7	32.9	0.1	0.0	32.7	32.9

AUDIT RESULTS

	10 m Ambient - 2 m Cold	10 m Cold - 2 m Ambient	Adjustment for Bath Temp Differences *	Absolute Difference **
Mean Absolute Difference	32.9	32.8	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: 7/26/10

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

TEMPERATURE SENSOR INFORMATION

MAKE: Campbell Scientific
MODEL: HMP50-L
SERIAL #: D2230029
START TIME: 10:40
END TIME: 11:15

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)
30.5	30.6	0.1
30.3	30.6	0.3
30.3	30.5	0.2
30.4	30.6	0.2
30.3	30.6	0.3

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: 7/26/10

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

RELATIVE HUMIDITY SENSOR INFORMATION

MAKE: Campbell Scientific
MODEL: HMP50-L
SERIAL #: D2230029
START TIME: 10:40
END TIME: 11:15

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	41.2	43.8	2.6
2	42.0	43.2	1.2
3	41.5	43.3	1.8
4	41.1	43.5	2.4
5	40.7	43.1	2.4

AUDIT RESULTS

Mean Difference: 2.1 PASS

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

BAROMETRIC PRESSURE SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 7/26/10
START TIME: 10:50
END TIME: 11:30

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)
25.85	25.81	-0.04	0.04
25.84	25.81	-0.03	0.03
25.85	25.81	-0.04	0.04
25.85	25.81	-0.04	0.04
25.85	25.81	-0.04	0.04

Mean Absolute Difference: 0.04
Results (Pass/Fail): PASS

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

SOLAR RADIATION SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 7/26/10
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: SOL-A-METER
MODEL: Mk 1-G
SERIAL #: 4795
LAST CALIBRATION DATE: 08/15/09

Time (Hourly Ending)	Sol-A-Meter Sensor (W/m2)	Field Sensor (W/m2)	Difference (W/m2)	Absolute Difference (W/m2)	Difference (%)
11	485.4	466.1	-19.30	19.30	3.98%
12	397.6	384.3	-13.30	13.30	3.35%
13	517.7	503.6	-14.10	14.10	2.72%
14	594.8	582.2	-12.60	12.60	2.12%
15	647.8	634.2	-13.60	13.60	2.10%

Mean Absolute Difference: 2.85%
Results (Pass/Fail): PASS

APPLIED ENVIRONMENTAL CONSULTANTS
METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

EVAPORATION GAUGE AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 7/26/2010

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

SENSOR INFORMATION

MAKE: Novalynx
MODEL: 255-100
SERIAL #: 526
START TIME: 10:15
END TIME: 12:00

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	-1.03	0.03	3.00%
2	30.00	-1	-0.93	0.07	7.00%
			Mean Difference:	0.05	5.00%
					PASS

APPLIED ENVIRONMENTAL CONSULTANTS
METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

PRECIPITATION GAUGE AUDIT

PROJECT: Resolution Copper
SITE: KC1 (East Plant)
DATE: 7/26/2010

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

SENSOR INFORMATION

MAKE: Met One
MODEL: 970
SERIAL #: Invisible
START TIME: 11:00
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	1.02	0.02	2.00%
2	0.946	1.00	1.00	0.00	0.00%
				Mean Difference:	1.00%
					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: 7/27/2010

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

WIND SPEED SENSOR INFORMATION

MAKE: Met One
MODEL: 014A
SERIAL #: Invisible
START TIME: 9:55
END TIME: 12:00

MULTIPLIER (rpm to m/s): 0.026662
OFFSET (rpm to m/s): 0.44704
STARTING TORQUE (gm-cm): 0.15
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	13.65	NA	-0.93
1000	27.11	27.65	NA	2.00
1500	40.44	40.45	NA	0.02
1700	45.77	45.67	NA	-0.22

AUDIT RESULTS

Mean Absolute Difference (WS $\leq$ 5 m/s):	0.00	PASS
Mean Absolute Percent Difference (WS > 5 m/s):	1.50	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: 7/27/2010

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

WIND DIRECTION SENSOR INFORMATION

MAKE: Met One
MODEL: 024A
SERIAL #: Invisible
START TIME: 9:55
END TIME: 12:00

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)
31.0	31.7	-0.7
205.0	204.9	0.1
239.0	239.6	-0.6
329.0	331.5	-2.5

AS LEFT Sensor Response (Degrees)	Difference (Degrees)
34.8	3.8
202.6	-2.4
238.9	-0.1
331.8	2.8

MEAN ABSOLUTE DIFFERENCE: 1.0
RESULTS (PASS/FAIL): PASS

MEAN ABSOLUTE DIFFERENCE: 2.3
RESULTS (PASS/FAIL): PASS

SENSOR RESPONSE TEST

True Direction (Degrees)	Sensor Response (Degrees)	Difference (Response - True) (Degrees)
10	9.8	-0.2
40	40.5	0.5
70	70.7	0.7
100	100.3	0.3
130	131.7	1.7
160	161.1	1.1
190	190.4	0.4
220	220.3	0.3
250	250.8	0.8
280	280.3	0.3
310	310.5	0.5
340	340.2	0.2

AUDIT RESULTS

Mean Absolute Difference: 0.6 PASS

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

DELTA-T SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 7/27/10

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

2-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15046
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

MAKE: Fisher Scientific
MODEL: 15-077-7
SERIAL #: 61554792
LAST CALIBRATION DATE: 02/27/10

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	0.3	0.3	0.1	0.1	0.0
0.2	0.3	0.3	0.1	0.1	0.0
0.1	0.2	0.2	0.1	0.1	0.0
0.1	0.2	0.2	0.1	0.1	0.0
0.1	0.1	0.1	0.0	0.0	0.0

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)
26.0	26.1	26.1	0.1	0.1	0.0
26.0	26.1	26.1	0.1	0.1	0.0
26.0	26.1	26.1	0.1	0.1	0.0
26.0	26.1	26.1	0.1	0.1	0.0
26.0	26.1	26.1	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

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)
40.2	40.3	40.3	0.1	0.1	0.0
40.2	40.2	40.3	0.0	0.0	0.0
40.2	40.2	40.2	0.0	0.0	0.0
40.2	40.2	40.2	0.0	0.0	0.0
40.2	40.2	40.1	0.0	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: 7/27/10

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

2-meter Height
MAKE: RM Young
MODEL: 43347-L
SERIAL #: 15046
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

MAKE: Fisher Scientific
MODEL: 15-077-7
SERIAL #: 61554792
LAST CALIBRATION DATE: 02/27/10

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)
26.1	26.0	0.1	0.2	26.0	25.8
26.1	26.1	0.3	0.4	25.8	25.7
26.1	26.1	0.2	0.2	25.9	25.8
26.1	26.1	0.2	0.3	25.9	25.8
26.1	26.1	0.2	0.2	25.9	25.9

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)
26.1	26.0	0.2	0.3	25.9	25.8
26.1	26.0	0.1	0.1	26.0	26.0
26.1	26.0	0.2	0.2	25.9	25.9
26.1	26.1	0.2	0.2	25.9	25.9
26.2	26.2	0.2	0.2	26.0	25.9

AUDIT RESULTS

	10 m Ambient - 2 m Cold	10 m Cold - 2 m Ambient	Adjustment for Bath Temp Differences *	Absolute Difference **
Mean Absolute Difference	25.8	25.9	0.0	0.06
				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: 7/27/10

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

TEMPERATURE SENSOR INFORMATION

MAKE: Campbell Scientific
MODEL: HMP50-L
SERIAL #: D2230030
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)
31.0	30.9	-0.1
31.0	31.0	0.0
31.0	31.0	0.0
31.0	31.1	0.1
31.1	31.2	0.1

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: 7/27/10

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

RELATIVE HUMIDITY SENSOR INFORMATION

MAKE: Campbell Scientific
MODEL: HMP50-L
SERIAL #: D2230030
START TIME: 10:10
END TIME: 11:00

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	42.4	2.0
2	43.3	41.9	1.4
3	43.6	42.5	1.1
4	43.2	42.1	1.1
5	43.9	41.7	2.2

AUDIT RESULTS

Mean Difference: 1.6 PASS

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

BAROMETRIC PRESSURE SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 7/27/10
START TIME: 10:20
END TIME: 11:15

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)
26.96	26.93	-0.03	0.03
26.96	26.93	-0.03	0.03
26.96	26.93	-0.03	0.03
26.96	26.93	-0.03	0.03
26.96	26.93	-0.03	0.03

Mean Absolute Difference: 0.03
Results (Pass/Fail): PASS

APPLIED ENVIRONMENTAL CONSULTANTS

METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

SOLAR RADIATION SENSOR AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 7/27/10
START TIME: 9:00
END TIME: 14:00

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

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

REFERENCE SENSOR
MAKE: SOL-A-METER
MODEL: Mk 1-G
SERIAL #: 4795
LAST CALIBRATION DATE: 08/15/09

Time (Hourly Ending)	Sol-A-Meter Sensor (W/m2)	Field Sensor (W/m2)	Difference (W/m2)	Absolute Difference (W/m2)	Difference (%)
10	388.6	378.7	-9.90	9.90	2.55%
11	514.7	501.8	-12.90	12.90	2.51%
12	943.0	920.0	-23.00	23.00	2.44%
13	279.1	270.2	-8.90	8.90	3.19%
14	332.6	320.1	-12.50	12.50	3.76%

Mean Absolute Difference: 2.89%
Results (Pass/Fail): PASS

APPLIED ENVIRONMENTAL CONSULTANTS
METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

EVAPORATION GAUGE AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 7/27/10

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	-0.99	0.01	1.00%
			Mean Difference:	0.03	3.00%
					PASS

APPLIED ENVIRONMENTAL CONSULTANTS
METEOROLOGICAL AUDIT MEASUREMENTS AND RESULTS

PRECIPITATION GAUGE AUDIT

PROJECT: Resolution Copper
SITE: KC2 (West Plant)
DATE: 7/27/10

AUDITOR: T. Chindavijak
OPERATOR: M. Yrizarry

SENSOR INFORMATION

MAKE: Met One
MODEL: 970
SERIAL #: 860-B
START TIME: 10:00
END TIME: 12:00

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	1.03	0.03	3.00%
				Mean Difference:	3.00%
					PASS

APPENDIX B-EQUIP
AUDIT EQUIPMENT CALIBRATION INFORMATION

CERTIFICATE OF ACCURACY

REPORT # [illegible] CUSTOMER [illegible] SALES ORDER [illegible]

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 316-50M SERIAL NUMBER [illegible] P.O. # 708-15

CALIBRATED BY [illegible] DATE 2/20/97 APPROVED [illegible]

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

CALIBRATION POINT IN In-Lbs	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. Routine 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.

LOW 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 11385-8342
(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: Charles M. Miller

*(Formerly National Bureau of Standards)

PURCHASED FROM VICTAULIC (FILTER)

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.: 4000-2772185

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:953882)

ID: 4792 Model: 15-077-8 S/N: 61554792 Manufacturer : Control Company

Model: 15-077-7 S/N: 61554792

Standards/Equipment:

Description	Serial Number	Due Date	NIST Traceable Reference
Temperature Calibration Bath TC179	A45240		
Thermistor Module	A17118	11/19/10	A9B21010
Temperature Probe	128	12/10/10	A9B23079
Temperature Probe	3039	12/10/10	A9B23080-1
Thermistor Module	A27129	7/09/10	1000264338
Temperature Probe	157	7/27/10	A9708011-4
Digital Thermometer	20267165/21030926	9/11/10	4000-2460829

Certificate Information:

Technician: 68 Procedure: CAL-06 Cal Date: 2/27/10 **Cal Due: 2/27/11**

Test Conditions: 20.4°C 34.0 %RH 1021 mBar

Calibration Data:

Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±uc	TUR
°C	0.001	0.143	N	0.001	-0.001	Y	-0.049	0.051	0.013	3.8:1
°C	25.001	25.050	Y	25.001	25.000	Y	24.951	25.051	0.013	3.8:1
°C	60.001	59.922	N	60.001	60.002	Y	59.951	60.051	0.018	2.8:1
°C	100.001	99.842	N	100.001	100.006	Y	99.951	100.051	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; ±uc=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).

Traceable® is a registered trademark of Control Company

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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: repair@extech.com • www.extech.com

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
Calibrated Against	(*1)	: 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

MATRIX SOLAR SERVICES INC. 537 S. 31ST ST. • MESA, AZ 85204 USA • PH: (480) 832-1380 • FAX: (480) 832-9261 • EMAIL: MATRIXSOLAR@COX.NET

SOL-A-METER CERTIFICATE OF CALIBRATION

PLACE: Mesa, Arizona DATE: August 15, 2009

MODEL: Mk 1-G SERIAL NUMBER: 4795

CALIBRATION CONDITIONS: Sunshine, clear air, no clouds.

Temperature range 94 °F to 105°F.

REFERENCE STANDARD: Thermopile type pyranometer.
PSP Eppley, Serial Number: 15801F3; Coefficient: 6.60 millivolts/langley $min.^{-1}$

COEFFICIENTS:

1. Mk 1-G & Mk 3.....millivolts x 0.0185 =$cal/cm^2/min$
   millivolts x _____ =$watts/meter^2$
2. Mk 14E & Mk 18E – Integrator...counts x _____ =cal/cm^2
   counts x _____ =$watt\text{-}hours/meter^2$

   Recorder...millivolts x _____ =$cal/cm^2/min$
   millivolts x _____ =$watts/meter^2$

CONVERSION FACTORS:

$Cal/cm^2/min \times 221.2 = Btu/ft^2/hr^1$	$Cal/cm \times 3.687 = Btu/ft^2$
$Cal/cm^2/min \times 1.000 = Langleys/min^1$	$Cal/cm^2 \times 1.000 = Langleys$
$Cal/cm^2/min \times 69.73 = Milliwatts/cm^2$	$Btu/ft^2/hr \times 3.153 = watts/meter^2$
$Cal/cm^2 \times 1.162 = Milliwatt\text{-}hours/cm^2$	$Cal/cm^2 \times 11.62 = watt\text{-}hours/meter^2$
$Cal/cm^2/min \times 697.3 = watts/meter^2$	

REMARKS _____

CERTIFIED BY: Donald Pershing

RETAIN THIS CERTIFICATE. Our calibration data is discarded 18 months after the above date and duplicates will not be available thereafter.