Prepared for:
Basin Electric, Inc.
South Dakota

Basin NextGen Project Ambient Air Quality and Meteorological Monitoring Program
Data Report October through December 2007

ENSR Corporation
January 2008
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March 5, 2008

Mr. Brad Schultz, Senior Scientist
Air Quality Program
South Dakota Department of Environment & Natural Resources
523 East Capitol
Pierre, SD 57501-3182

RE: Quarterly Data Reports – October through December 2007
NextGen Project Ambient Air Quality and Meteorological Monitoring Program

Dear Mr. Schultz:

ENSR is submitting the referenced quarterly report for the Next Gen monitoring program near Gettysburg South Dakota. Enclosed is a copy of the report for the Fourth Quarter, October through December 2007.

Please note that the report includes a summary of monitoring data, comparison to standards for air quality, and various appendices that further provide the data and provide quality assurance documentation.

Please review and call or e-mail with any questions.

Regards

Bruce C. Macdonald, Ph.D.
Senior Program Manager

Ref: 02450-017-701
Enclosure

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Basin NextGen Project Ambient Air Quality and Meteorological Program Data Report October through December 2007

Prepared By

Reviewed By

ENSR Corporation
January 2008
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EXECUTIVE SUMMARY

This report provides a summary of the air quality and meteorological monitoring data collected at the Basin NextGen monitoring site near Gettysburg, South Dakota, during the period of October through December 2007. The ambient air quality data measured during this 3 month period were well below the National Ambient Air Quality Standards (NAAQS). Data recovery for each individual air quality parameter was above the Prevention of Significant Deterioration requirement of 80 percent for the quarter. The quarterly air quality data for the monitoring site are summarized below.

	Measured Concentration		Standards NAAQS	
Parameter	**µg/m³**	**ppb**	**µg/m³**	**ppb**
NO_2				
1-hour Maximum	18	9.8	NS[1]	NS
Quarterly Mean	3	1.8	100[2]	50[2]
O_3				
1-hour Maximum	97	49.2	NS	NS
8-hour Maximum	89	45.5	157	80
SO_2				
1-hour Maximum	8	3.0	NS	NS
3-hour Maximum	8	3.0	1,300	500
24-hour Maximum	7	2.5	365	140
Quarterly Mean	2	0.8	80[2]	30[2]
PM_{10}				
24-hour Maximum	29.7	NA[3]	150	NA
Quarterly Mean	12.1	NA	50	NA

[1]NS = No Standard.
[2]Quarterly mean concentrations are compared to annual NAAQS.
[3]NA = Not Applicable.
PM_{10} values are based upon primary sampler.

µg/m³ = micrograms per cubic meter.
ppb = parts per billion.
NO_2 = nitrogen dioxide.
O_3 = ozone.
SO_2 = sulfur dioxide.
PM_{10} = particulate matter with an aerodynamic diameter of 10 microns or less.

NAAQS Standards (µg/m³)									
	PM_{10}	**$PM_{2.5}$**	**NO_2**	**SO_2**			**CO**		**O_3**
Annual Average		15	100			80			
1-hour							40,000		
3-hour				1,300					
8-hour								10,000	157
24-hour	150	35			365				
ppb to µg/m³			1.88	2.62	2.62	2.62			1.96
ppm to µg/m³							1,150	1,150	

CO = carbon monoxide.
ppm = parts per million.

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1.0 Introduction

Basin Electric, Inc. (Basin) is the owner and operator of the proposed Basin NextGen Project located in central South Dakota. In support of the planned construction and installation of power plant sources, including coal-fired boilers, Basin has retained ENSR Corporation (ENSR) to install and operate an ambient air quality and meteorological monitoring station near the proposed project location. The primary objectives of this monitoring study are:

- To fulfill pre-construction air monitoring potentially required under Prevention of Significant Deterioration (PSD) permitting rules at the site of the proposed source;
- To obtain baseline ambient air quality concentrations; and
- To provide a comprehensive on-site database for use in dispersion modeling using AERMOD.

To meet these objectives, a meteorological station, equipped with a 100-meter (m) tower was established at the Basin site. The station monitors the following parameters:

- Nitrogen oxides (NO_2, NO, NO_X);
- Sulfur dioxide (SO_2);
- Ozone (O_3);
- Inhalable particulate matter, with an aerodynamic diameter of 10 micrograms or less (PM_{10});
- Inhalable fine particulate matter, with an aerodynamic diameter of 2.5 micrograms or less ($PM_{2.5}$);
- Barometric pressure;
- 100-m wind speed, wind direction, vertical wind speed, wind direction standard deviation (Sigma-Theta), vertical wind speed standard deviation (Sigma-W);
- 50-m wind speed, wind direction, vertical wind speed, wind direction standard deviation (Sigma-Theta), vertical wind speed standard deviation (Sigma-W);
- 10-m wind speed, wind direction, vertical wind speed, wind direction standard deviation (Sigma-Theta), vertical wind speed standard deviation (Sigma-W);
- 2-m temperature, 10-m temperature, 50-m temperature, 100-m temperature; and
- Precipitation, relative humidity, and solar radiation.

Table 1-1 summarizes the monitoring equipment and measurement methods currently in use at the Basin site. The monitoring system, source environment, sampling frequency, quality assurance program, and data management aspects of the monitoring program are described in the monitoring plan.

This report provides summaries of the data collected for October through December 2007. A chronology of project progress and significant events during the quarter is presented in Chapter 2.0. Chapter 3.0 contains a summary of network performance and data retrieval statistics. Chapter 4.0 contains a summary of the air quality data recorded during the period. The meteorological data are presented and discussed in Chapter 5.0. Appendix A contains the formulae used to determine precision, accuracy, and data retrieval statistics. Appendix B contains the unit vector averaging method for wind directions. Appendix C contains information from the quarterly PM_{10} sampler calibrations performed on December 4-5, 2007. Appendix D presents the complete and validated meteorological and air quality monthly data summarized by hour October through December 2007. Appendix E contains a copy of the ARS Audit Report.

Table 1-1 Ambient Monitoring Program Equipment and Measurement Methods

Parameter	Manufacturer/Model	Sample Frequency	Range	Method
NO_X, NO_2, NO (~4m)	Thermo Electron Corporation (Thermo) Model 42C	Continuous	0.001 to 0.500 ppm	Chemiluminescent single chamber
O_3 (~4m)	Thermo Model 49C	Continuous	0.002 to 0.500 ppm	Ultraviolet absorption
SO_2 (~4m)	Thermo Model 43C	Continuous	0.001 to 0.500 ppm	Pulsed fluorescent
PM_{10} (~4m)	Tisch TE-6070V volumetric Flow Controlled PM_{10} monitor	Every 6 days	2 to 750 µg/m^3	10 µm size select inlet, high volume filter sample, gravimetric analysis
$PM_{2.5}$	Met One Model 1020 BAM	Continuous		Very sharp cutoff cyclone (FEM)
Multi-gas calibrator	Thermo Model 146C	NA	0 to 100 cc 0 to 10 lpm	Mass flow meters
Ozone Transfer Standard	Thermo Model 49C TS	NA	0.001 to 0.500 ppm	Pulsed fluorescent
Horizontal wind speed 10m, 50m, -100m	Climatronics Model F460	Continuous	0.1 to 100 mph	Cup Anemometer/Photo-chopper
Horizontal wind direction 10m, 50m, -100m	Climatronics Model F460	Continuous	0° to 360°	Vane/Potentiometer
Sigma-theta 10m, 50m, -100m	Campbell Scientific CR23X Datalogger	Continuous	0° to 100°	Digital computation
Vertical Wind Speed 10m, 50m, -100m	Climatronics Model 102236-G0	Continuous	-12.5 to +12.5 mph	Propeller Anemometer
Sigma w 10m, 50m, -100m	Campbell Scientific CR23X Datalogger	Continuous	0° to 100°	Digital computation
Temperature 2m, 10m, 50m, -100m	Climatronics Model 100093	Continuous	-30°C to 50°C	Aspirated triple-element thermistor
Temperature Difference (10m-2m, 50m-2m, 100m-2m)	Climatronics Model 100093	Continuous	-5° to 10°	Aspirated triple-element thermistor
Solar Radiation (~4m)	Kipp & Zonen Model CMP3	Continuous	0 to 2 langley/min	Thermopile
Precipitation (~4m)	Climatronics Model 100097-1-G0	Event, 1-hour Accumulation	0.01 in to Unlimited	Tipping Bucket
Relative Humidity (2m)	Campbell Scientific, Model HMP 45C-L	Continuous	0 to 100 percent	Hygrometer
Barometric Pressure (~4m)	Climatronics Model 102663-G0-10	Continuous	600 – 1,100 hPascals	Solid State Piezoresistors
Data logger	Campbell Scientific CR23X	1/second	0-1 v	Digital computer

ppm = parts per million
µg/m^3 = micrograms per cubic meter
µm = micrometers
cc = cubic centimeters
lpm = liters per minute
mph = miles per hour
°C = degrees Celsius
v = volts

2.0 Project Progress and Significant Events

Program activities during this quarter were primarily associated with routine operation, maintenance, and calibration checks. The on-site technician visited the station weekly to change PM_{10} filters and to check on air quality instruments. Data management included collection, processing, and validation of data.

The quarterly calibrations for both meteorological and air quality instruments occurred December 4 through 7, 2007.

The quarterly audit for this site was done by Air Resource Specialists (ARS) on December 18, 2007. No problems were seen and all parameters were within U.S. Environmental Protection Agency (USEPA) specifications.

Representatives from the state of South Dakota visited the site on December 18, and were present for a portion of the audit.

The original Met One BAM Model 1020 for with sharp cutoff cyclone (SCC) was installed on July 13, 2007 in order to collect $PM_{2.5}$ particulate data. An upgraded model of the Met One BAM Model 1020 with very sharp cutoff cyclone (VSCC) that met Federal Equivalency Method (FEM) requirements was installed on September 28, 2007. The original BAM unit was sent back to the factory for additional upgrades and the addition of a VSCC in order to meet FEM requirements. The BAM Model 1020 returned from receiving factory upgrades and FEM certification in late November and was installed the first week in December as the collocated $PM_{2.5}$ particulate sampler. The unit designated BAM-1 will be considered the primary $PM_{2.5}$ collection instrument and the unit designated BAM-2 will be considered the collocated sampler.

PM2.5 Data
collection began
9/28/2007
Co-located December began

3.0 Network Performance Summary

The data retrieval statistics for each air quality and meteorological parameter are presented in this chapter along with a brief summary of missing data. Program goals for data capture, as specified by PSD requirements, call for valid data retrieval of 80 percent for air quality parameters on a quarterly basis and 90 percent for meteorological parameters on an annual or 12-month basis.

3.1 Network Data Capture

Continuous air quality and meteorological data capture percentages have been calculated on the basis of the total number of hours of ambient data collected versus the total number of hours in the month. Hours lost to equipment failure, power outage, routine maintenance, calibrations and audits, as well as hours that do not satisfy program goals for accuracy and resolution have been deleted from the dataset in the data validation process. Particulate data percentages have been calculated based on the number of samples collected versus the total number of sampling days.

The data capture rate for each individual air quality parameter was above the PSD requirement of 80 percent for the quarter. The data capture rate for each meteorological parameter was above the PSD requirement for 90 percent annual data recovery. **Table 3-1** provides a summary of network performance by month for the quarter. Additional station specific information is provided below.

3.2 Station Performance

Summaries of the data capture performance for each parameter are presented in **Table 3-1**.

Table 3-1 Data Recovery by Parameter – 4th Quarter 2007

	Basin Data Recovery by Parameter									Data Recovery for the Quarter		
Channel	Possible Hours October	Valid Hours October	Percent Recovery October	Possible Hours November	Valid Hours November	Percent Recovery November	Possible Hours December	Valid Hours December	Percent Recovery December	Possible Hours Qtr	Valid Hours Qtr	Percent Recovery Qtr
10WS	744	744	100%	720	719	99.9%	744	606	81.5%	2208	2069	93.7%
10WD	744	744	100%	720	720	100.0%	744	662	89.0%	2208	2126	96.3%
10ST	744	744	100%	720	720	100.0%	744	662	89.0%	2208	2126	96.3%
50WS	744	744	100%	720	720	100.0%	744	662	89.0%	2208	2126	96.3%
50WD	744	744	100%	720	720	100.0%	744	662	89.0%	2208	2126	96.3%
50ST	744	744	100%	720	720	100.0%	744	662	89.0%	2208	2126	96.3%
100WS	744	744	100%	720	720	100.0%	744	617	82.9%	2208	2081	94.2%
100WD	744	744	100%	720	720	100.0%	744	662	89.0%	2208	2126	96.3%
100ST	744	744	100%	720	720	100.0%	744	662	89.0%	2208	2126	96.3%
10 VWS	744	744	100%	720	720	100.0%	744	662	89.0%	2208	2126	96.3%
50 VWS	744	744	100%	720	720	100.0%	744	618	83.1%	2208	2082	94.3%
100VWS	744	744	100%	720	720	100.0%	744	607	81.6%	2208	2071	93.8%
10SW	744	744	100%	720	720	100.0%	744	662	89.0%	2208	2126	96.3%
50SW	744	744	100%	720	720	100.0%	744	618	83.1%	2208	2082	94.3%
100SW	744	744	100%	720	720	100.0%	744	607	81.6%	2208	2071	93.8%
2mt	744	744	100%	720	720	100.0%	744	744	100.0%	2208	2208	100.0%
10mt	744	744	100%	720	720	100.0%	744	662	89.0%	2208	2126	96.3%
50mt	744	744	100%	720	720	100.0%	744	662	89.0%	2208	2126	96.3%
100mt	744	744	100%	720	720	100.0%	744	662	89.0%	2208	2126	96.3%
10-2dt	744	744	100%	720	720	100.0%	744	662	89.0%	2208	2126	96.3%
50-10dt	744	744	100%	720	720	100.0%	744	662	89.0%	2208	2126	96.3%
100-50dt	744	744	100%	720	720	100.0%	744	662	89.0%	2208	2126	96.3%
RH%	744	744	100%	720	720	100.0%	744	744	100.0%	2208	2208	100.0%
Sol w/m2	744	744	100%	720	720	100.0%	744	744	100.0%	2208	2208	100.0%
Precip.	744	744	100%	720	720	100.0%	744	739	99.3%	2208	2203	99.8%
Pressure	744	744	100%	720	720	100.0%	744	744	100.0%	2208	2208	100.0%
SO2	744	702	94.4%	720	677	94.0%	744	677	91.0%	2208	2056	93.1%
NO	744	702	94.4%	720	677	94.0%	744	677	91.0%	2208	2056	93.1%
NOx	744	702	94.4%	720	677	94.0%	744	677	91.0%	2208	2056	93.1%
NO2	744	702	94.4%	720	677	94.0%	744	677	91.0%	2208	2056	93.1%
O3	744	708	95.2%	720	685	95.1%	744	698	93.8%	2208	2091	94.7%
Stn T	744	744	100.0%	720	720	100.0%	744	744	100.0%	2208	2208	100.0%
PM10*	5	5	100.0%	5	5	100.0%	5	5	100.0%	15	15	100.0%
PM2.5*	744	741	99.6%	720	709	98.4%	744	739	99.3%	2208	2189	99.1%

PM_{10} recovery values are based on the Primary sampler.

4.0 Air Quality Data Summary

This chapter provides a summary of the air quality data collected for the Basin NextGen monitoring network for October through December 2007.

4.1 Continuous Air Quality Data

A summary of the air quality data, including a comparison of the data to the applicable federal and state ambient air quality standards, is presented in **Tables 4-1** and **4-2**. Additional data summary and discussion are provided later in this chapter. Listings of the individual hourly air quality data summarized in this chapter are provided in Appendix D.

Table 4-1 Basin NextGen Continuous Air Quality Monitoring Data Summary

Parameter		October		November		December		Quarter	
		µg/m³	ppb	µg/m³	ppb	µg/m³	ppb	µg/m³	ppb
NO_2	Average	3	1.6	3	1.7	4	2.0	3	2
	1-hour Maximum	11	5.7	18	9.8	9	5.0	18	10
SO_2	Average	1.0	0.4	4.4	1.7	1.0	0.4	2	0.8
	1-hour Maximum	7.9	3.0	7.9	3.0	7.9	3.0	8	3.0
	3-hour Maximum	6.3	2.4	7.6	2.9	7.9	3.0	8	3.0
	24-hour Maximum	3.4	1.3	6.3	2.4	6.5	2.5	7	2.5
O_3	Average	45	23.0	46	23.3	50	25.4	47	24
	1-hour Maximum	97	49.2	83	42.3	75	38.0	97	49
	8-hour Maximum	89	45.5	73	37.2	72	36.7	89	46

ppb = parts per billion.

NAAQS Standards (µg/m³)									
	PM_{10}	$PM_{2.5}$	NO_2	SO_2			CO		O_3
Annual Average		15	100			80			
1-hour							40,000		
3-hour				1,300					
8-hour								10,000	157
24-hour	150	35			365				
ppb to µg/m³			1.88	2.62	2.62	2.62			1.96
ppm to µg/m³							1,150	1,150	

NAAQS = National Ambient Air Quality Standards.

Table 4-2 Comparison of Basin NextGen – Air Quality Monitoring Data to NAAQS October through December 2007

Parameter	Measured Concentration		Standards NAAQS	
	µg/m³	ppb	µg/m³	ppb
NO_2				
1-hour Maximum	18	9.8	NS[2]	NS
Quarterly Mean	3	1.8	100[3]	50[3]
O_3				
1-hour Maximum	97	49.2	NS	NS
8-hour Maximum	89	45.5	157	80
SO_2				
1-hour Maximum	8	3.0	NS	NS
3-hour Maximum	8	3.0	1,300	500
24-hour Maximum	7	2.5	365	140
Quarterly Mean	2	0.8	80[3]	30[3]
PM_{10}				
24-hour Maximum	29.7	NA[4]	150	NA
Quarterly Mean	12.1	NA	50	NA

[1]NAAQS are equivalent.
[2]NS = No Standard.
[3]Quarterly mean concentrations are compared to annual NAAQS.
[4]NA = Not Applicable.
PM_{10} values are based upon primary sampler.

NAAQS Standards (µg/m³)									
	PM_{10}	$PM_{2.5}$	NO_2	SO_2			CO		O_3
Annual Average			100			80			
1-hour							40,000		
3-hour				1,300					
8-hour								10,000	157
24-hour	150	35			365				
ppb to µg/m³			1.88	2.62	2.62	2.62			1.96
ppm to µg/m³							1,150	1,150	

Table 4-3 NO_2 Summary

	NO_2 Monthly Average ppb	NO_2 1-Hour Max ppb	Date 1-Hour Max Occurred	Hours of Data Possible	Data Capture Percent
Apr-07	1.8	0.5	1/4/00	720	78.3%
May-07	2.0	6.8	5/14/07	744	94.5%
Jun-07	1.4	3.5	6/9/07	720	91.7%
Jul-07	1.9	8.2	7/10/07	744	83.9%
Aug-07	1.7	9.0	8/1/07	744	93.5%
Sep-07	1.5	3.9	9/18/07	720	91.8%
Oct-07	1.6	5.7	10/31/07	744	94.4%
Nov-07	1.7	9.8	11/01/07	720	94.0%
Dec-07	2.0	5.0	12/18/07	744	91.0%

annual ave	1.7	ppb
annual ave	4.5	$\mu g/m^3$

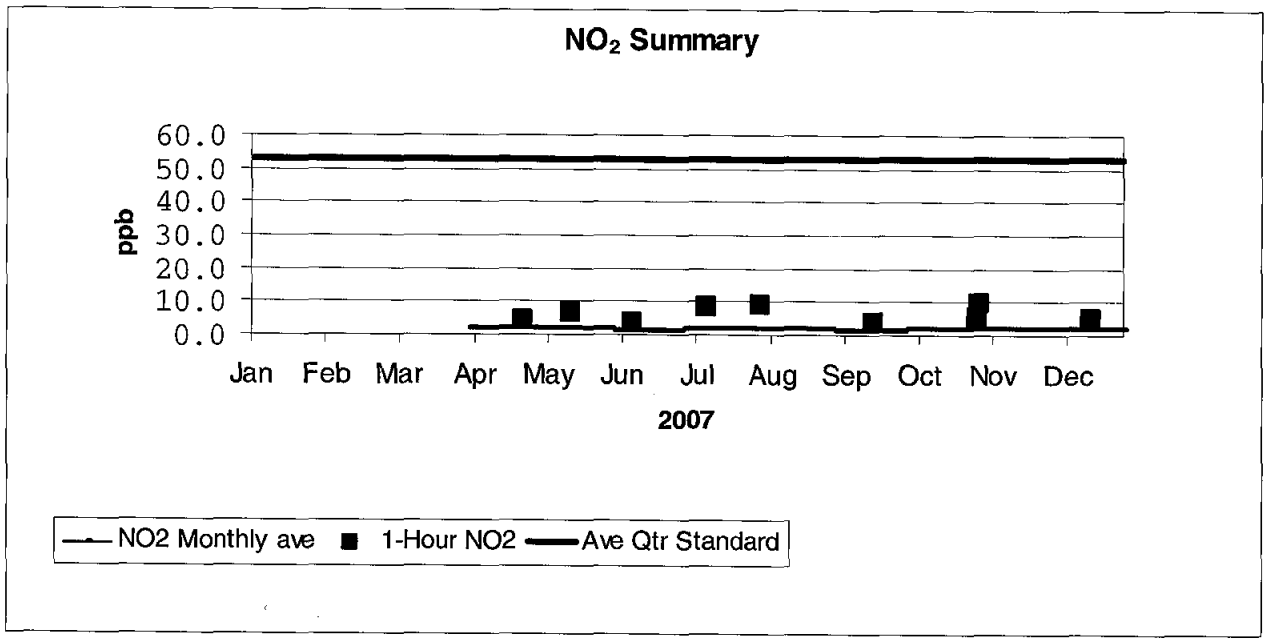

Figure 4-1 NO_2 Summary

NAAQS standards for NO_2 are: 53 ppb (~100 $\mu g/m^3$) annual average.

Note: ppb NO_2 to $\mu g/m^3$ conversion = 1.88.

Table 4-4 SO_2 Summary

	SO_2 Monthly Average ppb	SO_2 1-Hour Max ppb	Date 1-Hour Max Occurred	SO_2 3-Hour Max ppb	SO_2 24-hour Max ppb	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	<1	<1	4/5/07	<1	<1	564	720	78.3%
May-07	<1	1.4	5/22/07	<1	<1	703	744	94.5%
Jun-07	<1	2.2	6/21/07	<1	<1	660	720	91.7%
Jul-07	<1	2.4	7/10/07	1.3	<1	624	744	83.9%
Aug-07	<1	1.1	8/17/07	<1	<1	696	744	93.5%
Sep-07	<1	1.8	9/14/07	1.7	<1	661	720	91.8%
Oct-07	<1	3.0	10/09/07	2.4	1.3	702	744	94.4%
Nov-07	1.7	3.0	11/26/07	2.9	2.4	677	720	94.0%
Dec-07	<1	3.0	12/02/07	3.0	2.5	677	744	91.0%

annual ave	1.1	ppb
annual ave	2.8	$\mu g/m^3$

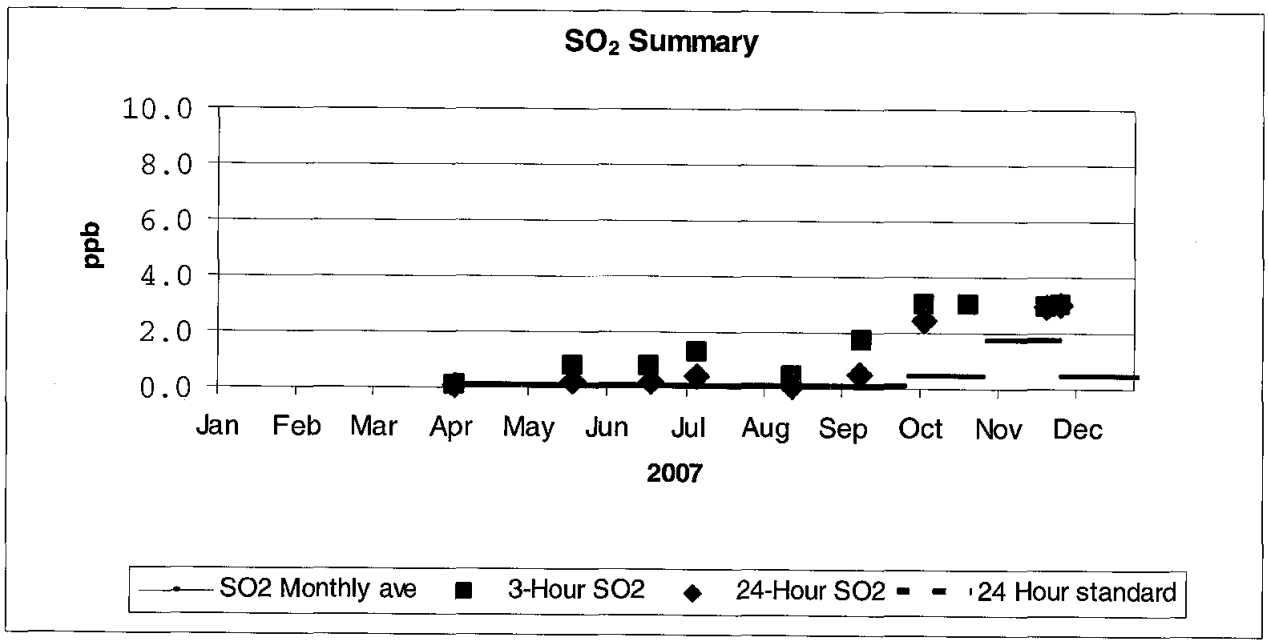

Figure 4-2 SO_2 Summary

NAAQS standards for SO_2 are: 139 ppb (365 $\mu g/m^3$) 24-hour average and 30 ppb (80 $\mu g/m^3$) annual average.

Note: ppb SO_2 to $\mu g/m^3$ conversion = 2.62.

Table 4-5 O_3 Summary

	O_3 Monthly Average ppb	O_3 1-Hour Max ppb	Date 1-Hour Max occurred	O_3 8-Hour Max ppb	Date 8-Hour Max occurred	Hours of QA/QC data	Hours of data possible	Data capture percent
Apr-07	36	58	4/8/07	52	4/26/07	570	720	79.2%
May-07	32	58	5/18/07	52	5/18/07	708	744	95.2%
Jun-07	31	52	6/16/07	46	6/25/07	665	720	92.4%
Jul-07	30	66	7/12/07	53	7/29/07	658	744	88.4%
Aug-07	28	60	8/13/07	54	8/9/07	705	744	94.8%
Sep-07	27	55	9/5/07	50	9/3/07	684	720	95.0%
Oct-07	23	49	10/01/07	46	10/01/07	708	744	95.2%
Nov-07	23	42	11/27/07	37	11/13/07	685	720	95.1%
Dec-07	25	38	12/11/07	37	12/11/07	698	744	93.8%

annual ave	28.4	ppb
annual ave	74.5	$\mu g/m^3$

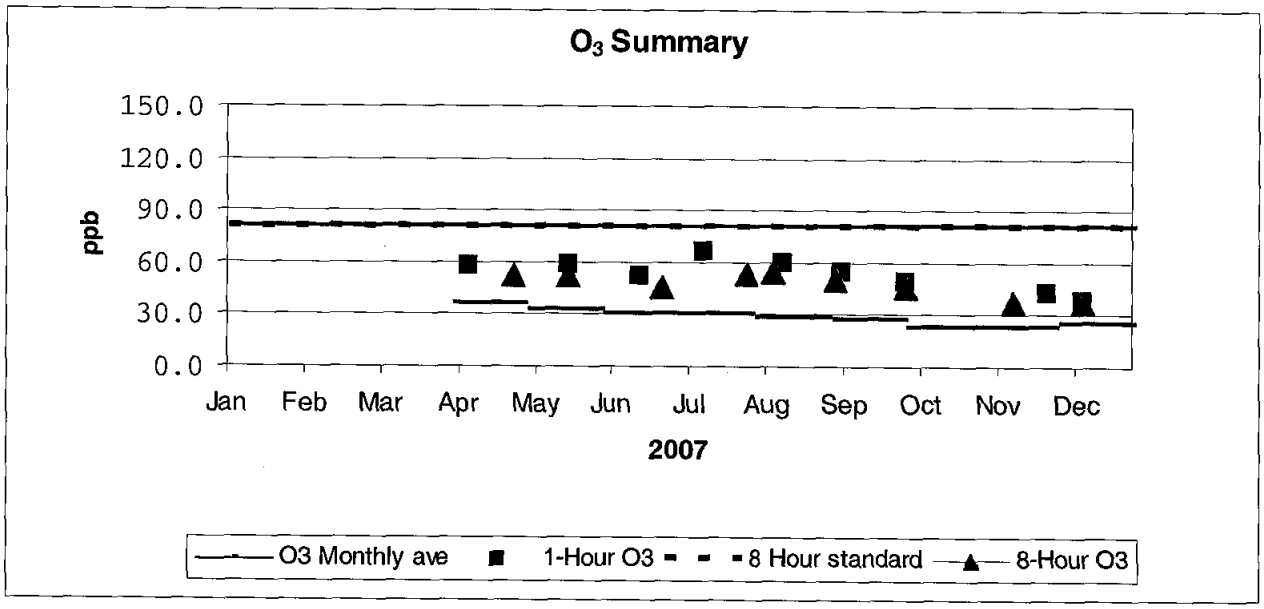

Figure 4-3 O_3 Summary

NAAQS standards for O_3 are: 120 ppb (235 $\mu g/m^3$) 1-hour standard and 80 ppb (157 $\mu g/m^3$) 8-hour standard

Note: ppb O_3 to $\mu g/m^3$ conversion = 1.96.

4.1.1 Continuous Analyzer Precision Statistics

Table 4-6 provides the precision probability intervals for each continuous analyzer. The table presents statistics based on the number of precision checks (N) conducted for each continuous analyzer from October through December 2007. The average percentage difference (dj) between the designated (known) input concentration and the observed (indicated) analyzer response was computed along with the standard deviation (Sj), and upper and lower 95 percent probability limits, using equations defined in Appendix A.

Table 4-6 Continuous Analyzer Precision Statistics – October through December 2007

Analyzer	N	Average Percent Difference (d_j)	Standard Deviation (S_j)	Upper 95 Percent Probability Limit	Lower 95 Percent Probability Limit
SO_2	6	-0.3	1.4	2.6	-3.1
NO_2	6	0.3	1.8	3.8	-3.2
NO	6	0.5	3.8	7.9	-6.9
O_3	6	-2.3	3.4	4.4	-9.0

4.1.2 Continuous Analyzer Accuracy Statistics

Accuracy statistics for the period October through December 2007 were determined from the quarterly network performance quality assurance audit, conducted by ARS on December 18, 2007. During the audit, the air quality analyzers were challenged with three known concentrations spanning the operational range of the instruments. **Table 4-7** provides a summary of the accuracy statistics, defined as the percent difference between the audit input and the analyzer response. A negative value indicates the analyzer was reading low, and a positive value indicates the analyzer was reading high.

Table 4-7 Continuous Analyzer Accuracy Statistics – October through December 2007

Date	Analyzer	Parameter	Accuracy (Percent)[1]		
			30 – 80 ppb	150 - 200 ppb	400 - 450 ppb
December 18, 2007	TEI 42 SN: 70181-365	NO_X[1] NO[1] NO_2[1]	-3.8 -5.2 -9.5	-1.7 -2.2 -4.5	-2.8 -3.5 -3.4
December 18, 2007	TEI 43A SN: 29727-236	SO_2	-0.3	0.4	1.7
December 18, 2007	TEI 49 SN: 051781-2012	O_3	-1.1	-1.9	-0.7

[1]Project accuracy goal ±10 percent of audit input. USEPA accuracy goal ±15 percent.

4.2 Particulate Data (PM_{10})

The measured inhalable particulate (PM_{10}) 24-hour average concentrations were well below the NAAQS standard of 150 µg/m^3. **Table 4-8** provides a summary of PM_{10} values and the quarterly means. **Table 4-9** shows each PM_{10} sample results including data weight, concentration, initial flow, final flow, and elapsed time.

Table 4-8 24-hour Particulate Data Summary October 3 through December 26, 2007

	PM_{10} (µg/m^3)	
Date	**Primary**	**Collocated**
10/03/07	22.5	23.4
10/09/07	7.0	8.2
10/15/07	7.5	8.1
10/21/07	11.8	11.6
10/27/07	19.9	19.8
11/02/07	29.7	28.9
11/08/07	20.7	18.9
11/14/07	14.9	14.4
11/20/07	4.8	6.9
11/26/07	7.7	7.4
12/02/07	8.9	8.0
12/08/07	5.9	6.0
12/14/07	8.5	8.6
12/20/07	8.0	7.3
12/26/07	3.1	3.4
Quarterly Arithmetic Mean	12.1	12.1

Table 4-9 PM_{10} Sampler Monitoring Data

Date	Unit Designation	Filter Number	SCCM (µg/m³)	Delta Weight (g)	Initial Flow (SCCM)	Initial Flow (ACCM)	Final Flow (SCCM)	Final Flow (ACCM)	Time (min)	Comments
10/03/07	PM10 (Primary)	000066	**22.5**	0.0362	39.5	38.9	39.8	39.2	1430.4	
10/03/07	PM10 (Collocated)	000067	**23.4**	0.0379	39.2	38.6	39.6	38.9	1454.4	
10/09/07	PM10 (Primary)	000068	**7.0**	0.0112	40.0	39.3	40.1	39.5	1409.4	
10/09/07	PM10 (Collocated)	000069	**8.2**	0.0131	39.6	39.0	39.7	39.1	1422.6	
10/15/07	PM10 (Primary)	000070	**7.5**	0.0120	40.1	39.4	39.9	39.3	1411.2	
10/15/07	PM10 (Collocated)	000071	**8.1**	0.0130	39.8	39.1	39.6	39.0	1420.8	
10/21/07	PM10 (Primary)	000072	**11.8**	0.0188	39.9	39.3	39.9	39.2	1411.8	
10/21/07	PM10 (Collocated)	000073	**11.6**	0.0185	39.6	39.0	39.6	38.9	1423.8	
10/27/07	PM10 (Primary)	000074	**19.9**	0.0318	39.8	39.2	40.1	39.4	1413.6	
10/27/07	PM10 (Collocated)	000075	**19.8**	0.0317	39.5	38.9	39.7	39.1	1426.2	
11/02/07	PM10 (Primary)	000076	**29.7**	0.0476	40.1	39.5	40.0	39.4	1413.0	
11/02/07	PM10 (Collocated)	000077	**28.9**	0.0464	39.7	39.1	39.6	39.0	1427.4	
11/08/07	PM10 (Primary)	000078	**20.7**	0.0330	39.8	39.2	39.9	39.2	1415.4	
11/08/07	PM10 (Collocated)	000079	**18.9**	0.0304	39.9	39.2	39.8	39.2	1426.2	
11/14/07	PM10 (Primary)	000080	**14.9**	0.0239	39.9	39.3	40.3	39.6	1412.4	
11/14/07	PM10 (Collocated)	000081	**14.4**	0.0231	39.6	39.0	39.9	39.3	1423.8	
11/20/07	PM10 (Primary)	000082	**4.8**	0.0077	40.1	39.5	40.1	39.5	1410.0	
11/20/07	PM10 (Collocated)	000083	**6.9**	0.0111	39.9	39.3	39.9	39.3	1423.2	
11/26/07	PM10 (Primary)	000084	**7.7**	0.0123	40.1	39.5	40.2	39.6	1412.4	
11/26/07	PM10 (Collocated)	000085	**7.4**	0.0119	39.8	39.2	39.9	39.3	1421.4	
12/02/07	PM10 (Primary)	000086	**8.9**	0.0144	40.3	39.7	40.2	39.6	1412.4	
12/02/07	PM10 (Collocated)	000087	**8.0**	0.0128	39.9	39.3	39.8	39.2	1422.6	
12/08/07	PM10 (Primary)	000088	**5.9**	0.0093	39.2	38.6	39.1	38.5	1411.2	
12/08/07	PM10 (Collocated)	000089	**6.0**	0.0095	39.3	38.7	39.4	38.7	1425.6	
12/14/07	PM10 (Primary)	000090	**8.5**	0.0133	39.2	38.6	39.1	38.5	1411.8	
12/14/07	PM10 (Collocated)	000091	**8.6**	0.0137	39.4	38.8	39.3	38.7	1428.0	
12/20/07	PM10 (Primary)	000092	**8.0**	0.0126	39.1	38.5	39.0	38.4	1426.8	
12/20/07	PM10 (Collocated)	000093	**7.3**	0.0117	39.3	38.7	39.3	38.7	1444.2	
12/26/07	PM10 (Primary)	000094	**3.1**	0.0048	39.1	38.5	39.1	38.5	1413.6	
12/26/07	PM10 (Collocated)	000096	**3.4**	0.0054	39.3	38.7	39.4	38.7	1425.6	

Validated By RLT 1/7/08
Analyst DH 1/7/08

4.2.1 Hi-vol Precision and Accuracy Statistics

Table 4-10 presents the precision statistics for the collocated PM_{10} sampler for the quarter. **Table 4-11** presents the accuracy statistics for the period, which were determined from the quality assurance audit conducted December 18, 2007. All samplers were found to be operating within the ±7 percent accuracy goal when compared to the auditor's reference flow standard.

Table 4-10 Hi-vol Precision – October through December 2007

N	Average Percent Difference (d_i)	Standard Deviation (S_i)	Upper 95 Percent Probability Limit	Lower 95 Percent Probability Limit
4	-2.0	5.3	8.3	-12.3

Table 4-11 Hi-vol Accuracy – October through December 2007

Date	Station/ Sampler	Parameter	Units	Accuracy[1] (%)
December 18, 2007*	#1	PM_{10}	ACFM	-2.8
December 18, 2007*	#2	PM_{10}	ACFM	-2.5

[1]Values given for accuracy are the percent difference between the flow rate determined with the audit standard and that reported by the station flow rate indicator and calibration curve. Accuracy goal is ±7 percent.

4.3 Particulate Data – $PM_{2.5}$

Particulate matter with aerodynamic diameter less than 2.5 µm are tested using a Met One, BAM Model 1020, $PM_{2.5}$ particulate sampler. This instrument is equipped with a VSCC head to achieve the FEM to generate hourly $PM_{2.5}$ concentrations using a fiber tape and internal carbon$_{14}$ radiation source.

Table 4-12 is a $PM_{2.5}$ data summary and **Figure 4-4** is a graphic presentation of hourly $PM_{2.5}$ data with 24 hour, 6 day PM_{10} runs overlain.

Table 4-12 $PM_{2.5}$ Data Summary (µg/m^3)

	BAM #1 (Primary)		BAM #2 (Collocated)	
	$PM_{2.5}$ Monthly Ave	$PM_{2.5}$ 24-hour Max	$PM_{2.5}$ Monthly Ave	$PM_{2.5}$ 24-hour Max
July 07	13.8	20.6	Na	Na
August 07	10.7	18.3	Na	Na
September 07	9.9	25.2	Na	Na
Quarter	**11.3**	**25.2**	**Na**	**Na**
October 07	4.0	10.8	Na	Na
November 07	4.6	22.0	Na	Na
December 07	2.9	6.9	Na	Na
Quarter	**3.8**	**22.0**	**1.5**	**1.5**

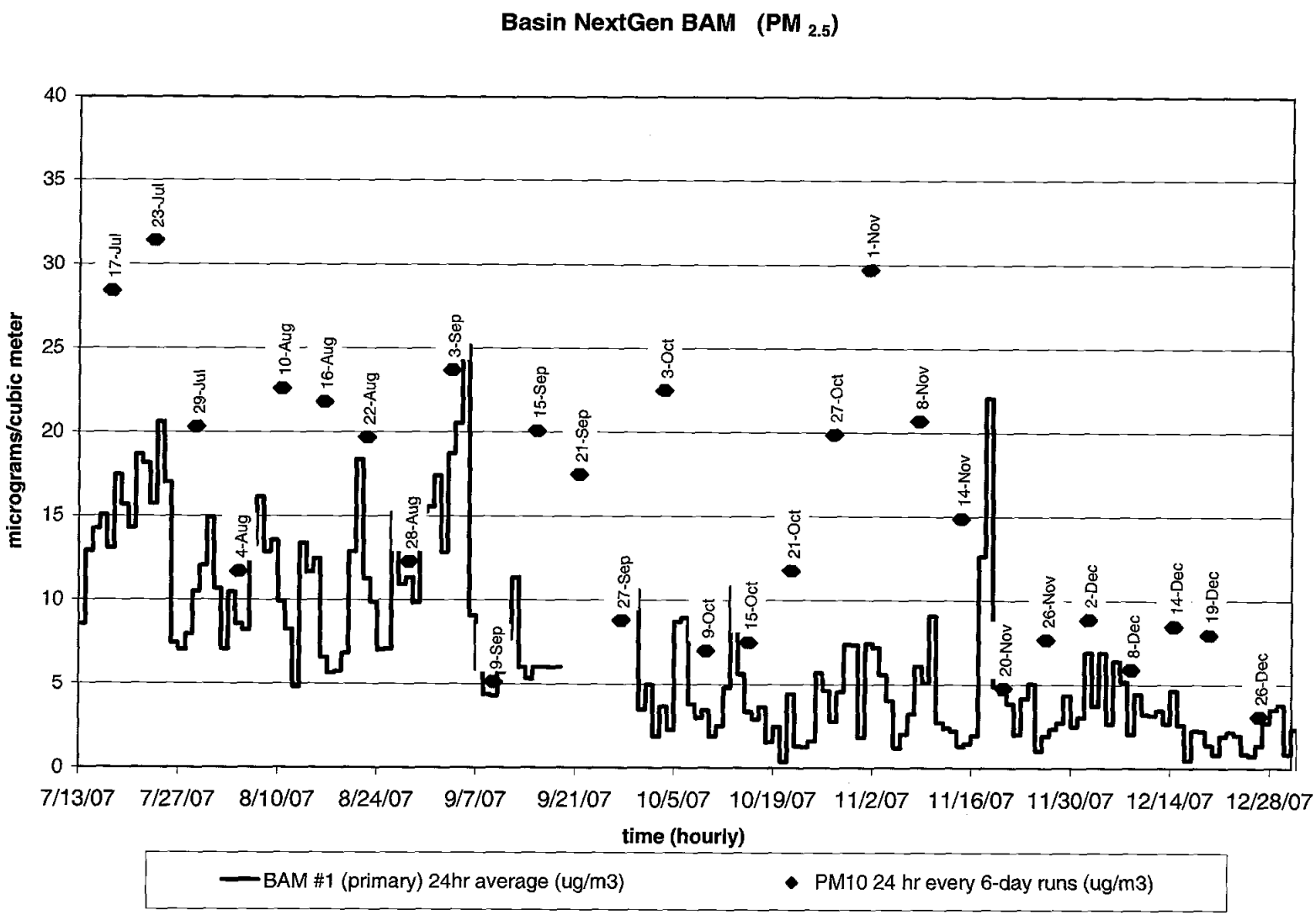

Figure 4-4 **$PM_{2.5}$ Graphical Presentation with PM_{10} Data Overlain**

5.0 Meteorological Data Summary

At the Basin site, meteorological data is collected in accordance with USEPA Meteorological Monitoring Guidance for Regulation Modeling Applications from an instrumented 100-m tower. The specific instruments and equipment are described in more detail below.

5.1 Horizontal Wind Speed and Direction

Horizontal wind speeds and direction on the tower are measured continuously at the Basin site using Climatronics Model F460 wind systems (100075-G0-H0 for wind speed; 100076-G0-H0 for wind direction). Wind speed is measured using anemometers where the principle of operation is based on a light chopper that produces a frequency proportional to wind speed. The wind direction sensor is a lightweight balanced vane that senses position by a precision potentiometer. The wind sensors are installed at 10m, 50m, and 100m. The standard deviation (sigma-theta) of the wind direction is computed by the data logger using the USEPA preferred Yamartino method (USEPA 2000).

5.2 Temperature and Temperature Difference

Temperatures at the Basin site are measured at four levels on the tower using a Climatronics Model 100093 temperature system. This motor aspirated system includes dual element thermistors mounted at 100m, 50m, 10m and 2m above ground level. Delta-T is calculated by the datalogger based on the difference in temperatures measured by identical sensors at each of the levels, 10-2m, 100-50m, and 50-10m. The datalogger resolves the temperature difference to better than 0.1°C.

This sensor configuration is designed to provide complete signal wire compensation and to eliminate any measurement errors resulting from resistance of the signal cable. The aspirator is mechanically ventilated with a fan to prevent conductive interference from precipitation and radiation from solar and terrestrial sources.

5.3 Vertical Wind Speed and Standard Deviation

Vertical wind speeds on the tower are measured continuously at the Basin site using Climatronics Model 102236-G0 wind systems. Vertical wind speeds are measured using an anemometer where the principle of operation is based on a prop that rotates either clockwise or counter-clockwise, which corresponds to positive or negative voltages that are translated into upward and downward vertical wind speed. The wind sensors are installed at 100m, 50m, and 10m. The standard deviation (sigma-w) of the wind direction is computed by the data logger following the guidelines in USEPA (2000).

5.4 Solar Radiation

At the Basin site, radiation measurements using a Kipp & Zonen model CMP3 pyranometer located at about the 2m level. The sensor is designed for measurement of global (sun and sky) radiation. The detector is a differential thermopile made of plated copper on constantan junctions. Hot-junction receivers are covered with a stable black coating, cold junction receivers are whitened with non-hygroscopic barium sulfate. The sensor is temperature compensated using thermistor circuitry to within 1.5 percent of the range of -20°C to +40°C. The sensor is sensitive to wavelengths of 0.285 to 2.800 μm.

5.5 Relative Humidity

RH is measured, at 2 m, using a Campbell Scientific model HMP 45C-L humidity sensor. The sensing element is a small hygroscopic thin film capacitor that modifies its value as a function of both the water vapor pressure

and temperature of the environment. The sensor probe electronics automatically compensate for temperature effects on the probe. Sensor output signals are data logger compatible requiring no additional processing.

Table 5-1 10-meter Wind Speed Summary

	WS Monthly Average mps	WS Monthly Max mps	Date Max Occurred	WS Monthly Min mps	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	5.5	17.2	04/19/07	0.8	04/17/07	497	720	69.0%
May-07	7.1	17.5	05/05/07	0.9	05/26/07	744	744	100.0%
Jun-07	5.6	16.4	06/18/07	0.7	06/27/07	468	720	65.0%
Jul-07	4.7	14.0	07/26/07	0.5	07/05/07	720	744	96.8%
Aug-07	4.5	11.6	08/10/07	0.4	08/20/07	744	744	100.0%
Sep-07	5.6	12.6	09/28/07	0.4	09/16/07	720	720	100.0%
Oct-07	5.7	15.9	10/30/07	0.6	10/12/07	744	744	100.0%
Nov-07	5.9	16.6	11/14/07	1.0	11/08/07	719	720	99.9%
Dec-07	4.5	14.5	12/21/07	0.1	12/27/07	606	744	81.5%

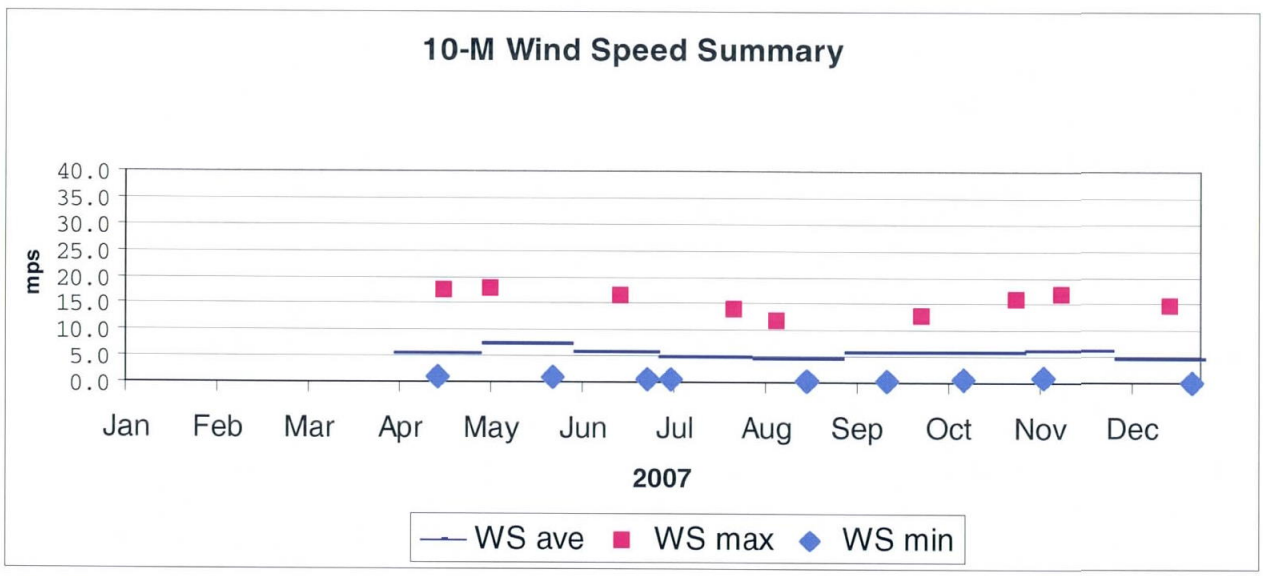

Figure 5-1 10-meter Wind Speed Summary

Table 5-2 50-meter Wind Speed Summary

	WS Monthly Average mps	WS Monthly Max mps	Date Max Occurred	WS Monthly Min mps	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	7.3	19.9	4/17/07	1.1	4/25/07	517	720	71.8%
May-07	8.9	23.2	5/5/07	1.4	5/8/07	744	744	100.0%
Jun-07	7.7	19.7	6/18/07	0.9	6/27/07	468	720	65.0%
Jul-07	6.8	17.9	7/26/07	0.9	7/5/07	720	744	96.8%
Aug-07	6.4	15.0	8/3/07	0.6	8/23/07	744	744	100.0%
Sep-07	8.0	15.7	9/28/07	0.8	9/21/07	720	720	100.0%
Oct-07	7.8	19.0	10/30/07	0.9	10/08/07	744	744	100.0%
Nov-07	8.3	19.4	11/14/07	0.6	11/22/07	720	720	100.0%
Dec-07	6.6	16.8	12/13/07	0.2	12/28/07	662	744	89.0%

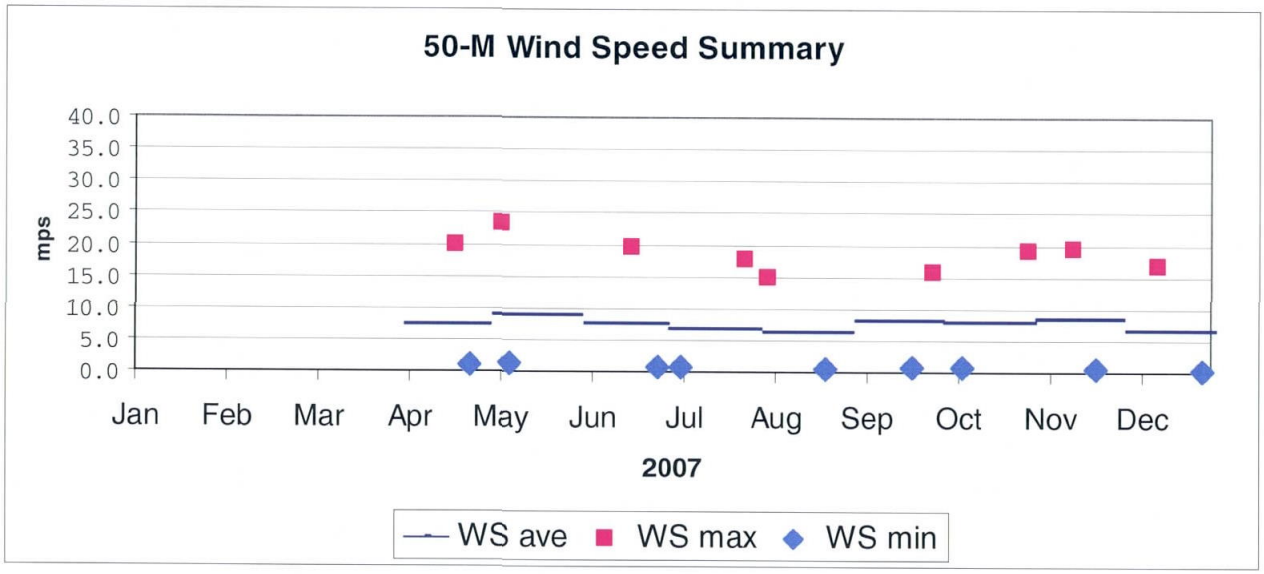

Figure 5-2 50-meter Wind Speed Summary

Table 5-3 100-meter Wind Speed Summary

	WS Monthly Average mps	WS Monthly Max mps	Date Max Occurred	WS Monthly Min mps	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	8.2	20.7	4/19/07	1.0	4/12/07	517	720	71.8%
May-07	10.0	26.3	5/5/07	1.0	5/8/07	744	744	100.0%
Jun-07	8.0	18.9	6/25/07	0.1	6/18/07	468	720	65.0%
Jul-07	7.2	20.3	7/26/07	0.1	7/1/07	720	744	96.8%
Aug-07	7.3	17.4	8/3/07	0.6	8/23/07	744	744	100.0%
Sep-07	9.4	18.3	9/28/07	0.9	9/21/07	720	720	100.0%
Oct-07	9.0	20.9	10/30/07	1.1	10/03/07	744	744	100.0%
Nov-07	9.6	20.9	11/14/07	1.0	11/22/07	720	720	100.0%
Dec-07	7.2	18.1	12/21/07	0.1	12/28/07	617	744	82.9%

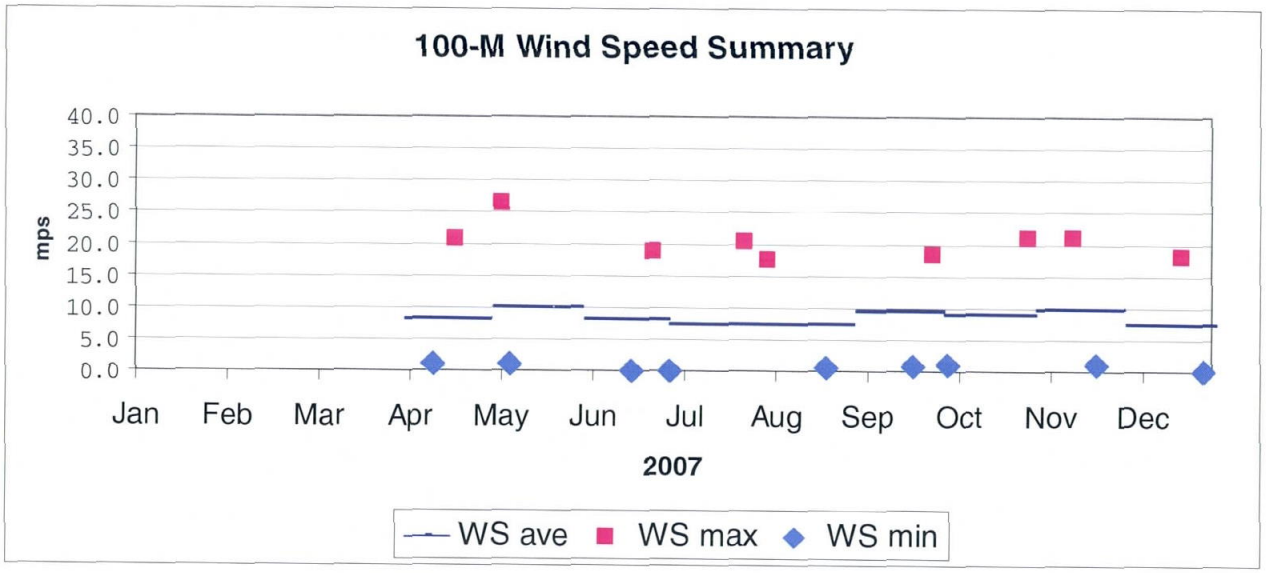

Figure 5-3 100-meter Wind Speed Summary

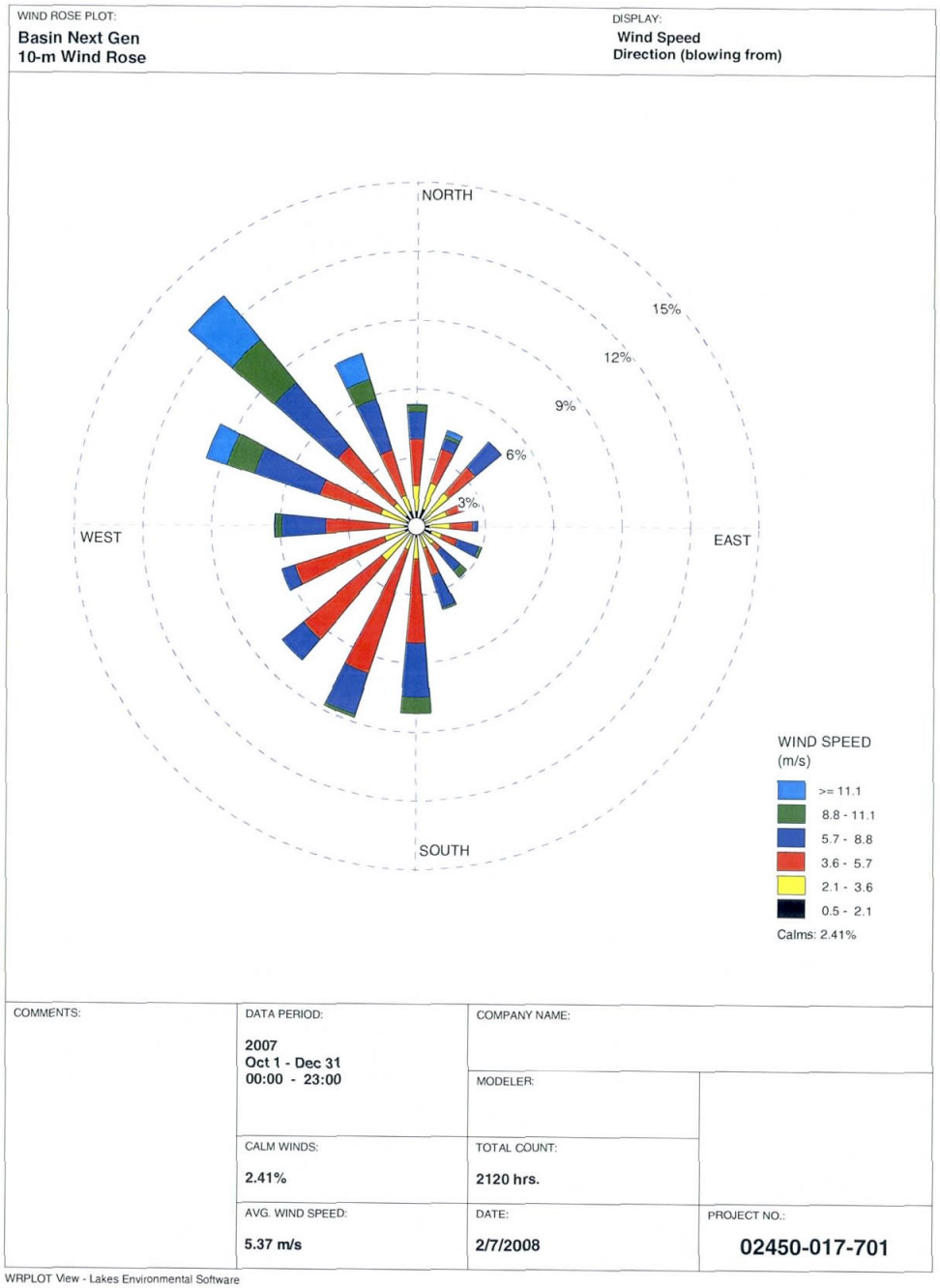

Figure 5-4 10-meter Wind Rose

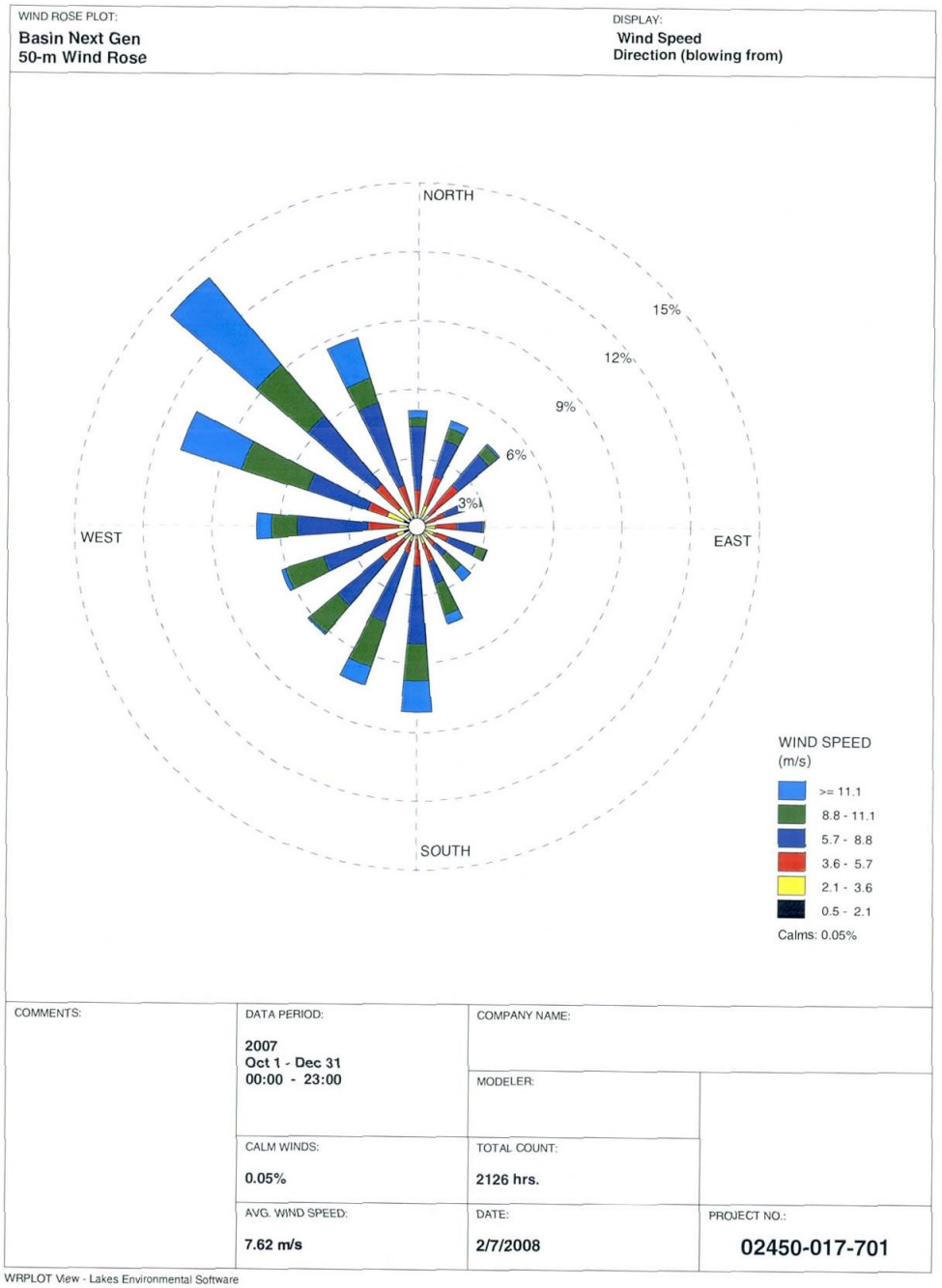

Figure 5-5 50-meter Wind Rose

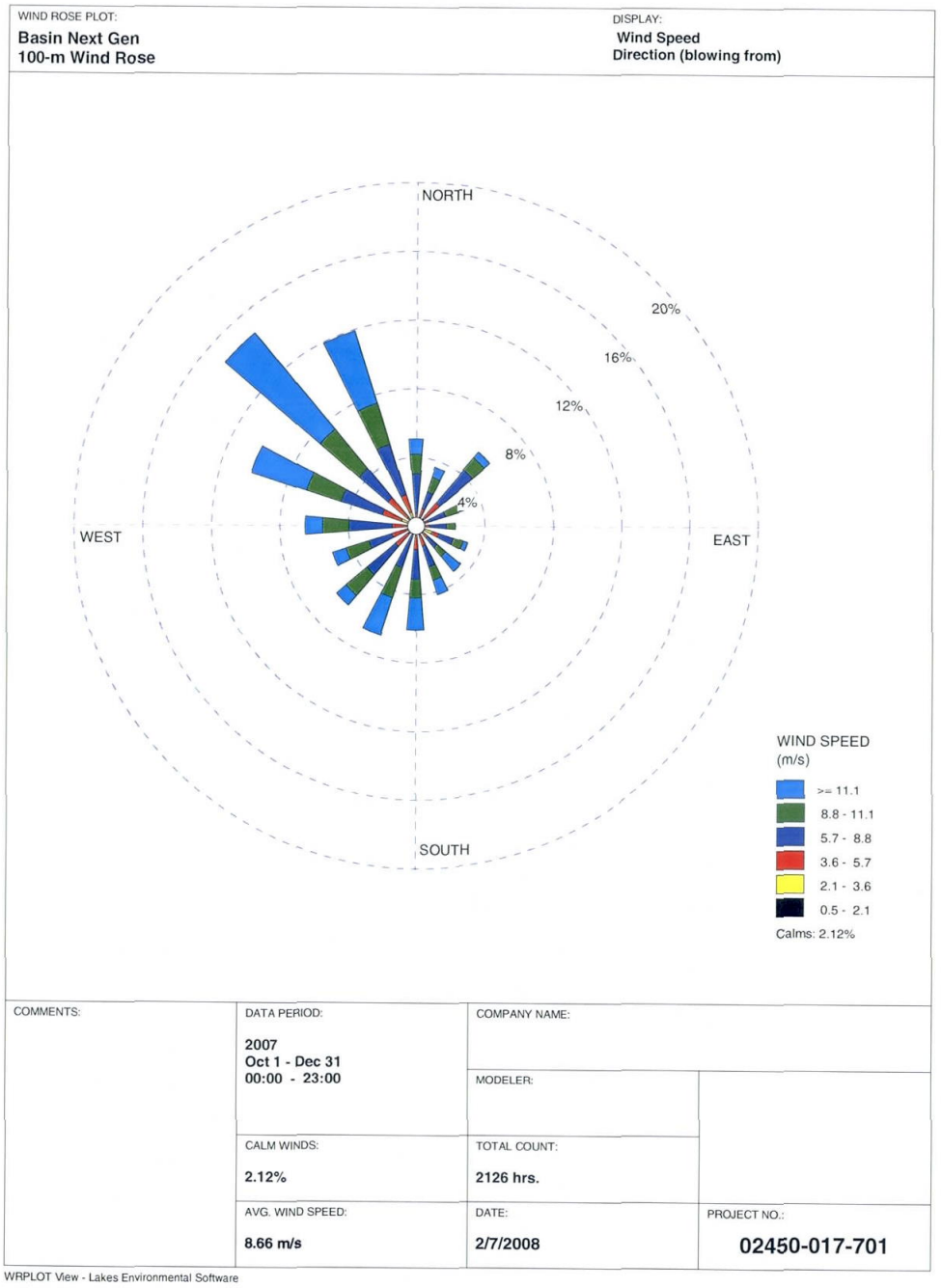

Figure 5-6 100-meter Wind Rose

Table 5-4 2-meter Temperature Summary

	Temp Monthly Average deg C	Temp Monthly Max deg C	Date Max Occurred	Temp Monthly Min deg C	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	7.1	26.4	4/28/07	-13.8	4/7/07	598	720	83.1%
May-07	14.7	32.1	5/13/07	1.8	5/17/07	744	744	100.0%
Jun-07	18.9	35.4	6/15/07	4.5	6/8/07	698	720	96.9%
Jul-07	23.2	37.7	7/7/07	10.1	7/11/07	732	744	98.4%
Aug-07	19.8	34.8	8/13/07	8.7	8/24/07	744	744	100.0%
Sep-07	15.8	36.0	9/3/07	0.3	9/14/07	719	720	99.9%
Oct-07	8.7	26.1	10/01/07	-3.1	10/27/07	744	744	100.0%
Nov-07	-0.1	18.7	11/04/07	-16.6	11/30/07	720	720	100.0%
Dec-07	-7.8	10.7	12/04/07	-18.1	12/08/07	744	744	100.0%

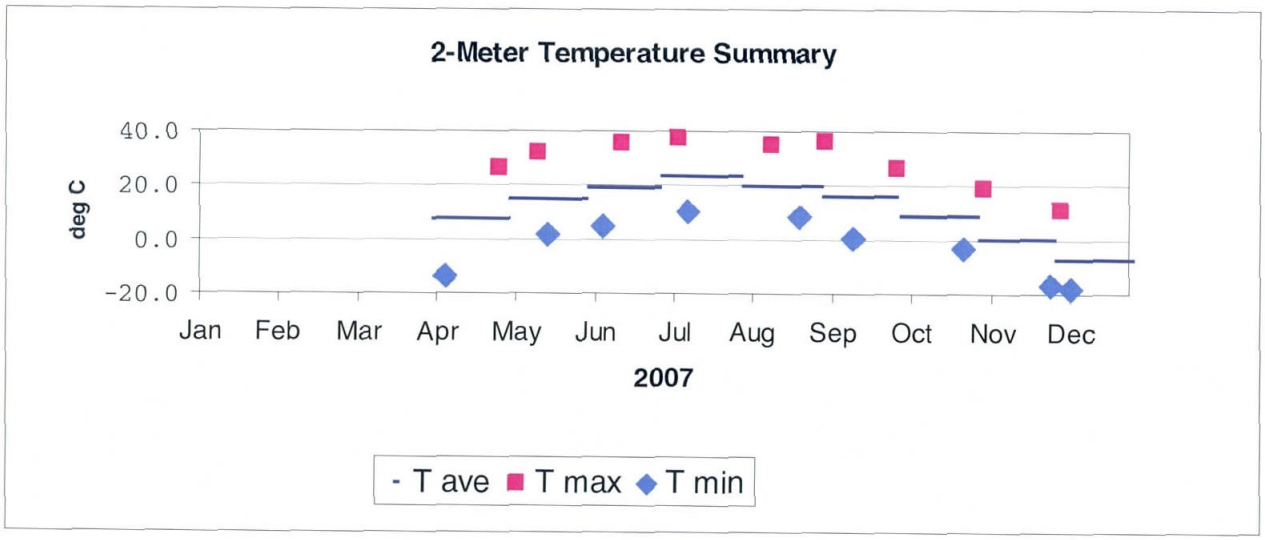

Figure 5-7 2-meter Temperature Summary

Table 5-5 10-meter Temperature Summary

	Temp Monthly Average deg C	Temp Monthly Max deg C	Date Max Occurred	Temp Monthly Min deg C	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	7.3	25.6	4/28/07	-13.5	4/7/07	588	720	81.7%
May-07	14.8	31.7	5/13/07	3.6	5/26/07	744	744	100.0%
Jun-07	19.4	31.8	6/25/07	8.3	6/28/07	467	720	64.9%
Jul-07	23.7	38.2	7/7/07	11.2	7/11/07	709	744	95.3%
Aug-07	20.1	35.2	8/13/07	10.0	8/24/07	744	744	100.0%
Sep-07	16.2	35.8	9/3/07	1.0	9/14/07	720	720	100.0%
Oct-07	9.2	25.8	10/01/07	-1.3	10/28/07	744	744	100.0%
Nov-07	0.3	18.5	11/04/07	-16.8	11/27/07	720	720	100.0%
Dec-07	-7.1	4.6	12/20/07	-16.6	12/08/07	662	744	89.0%

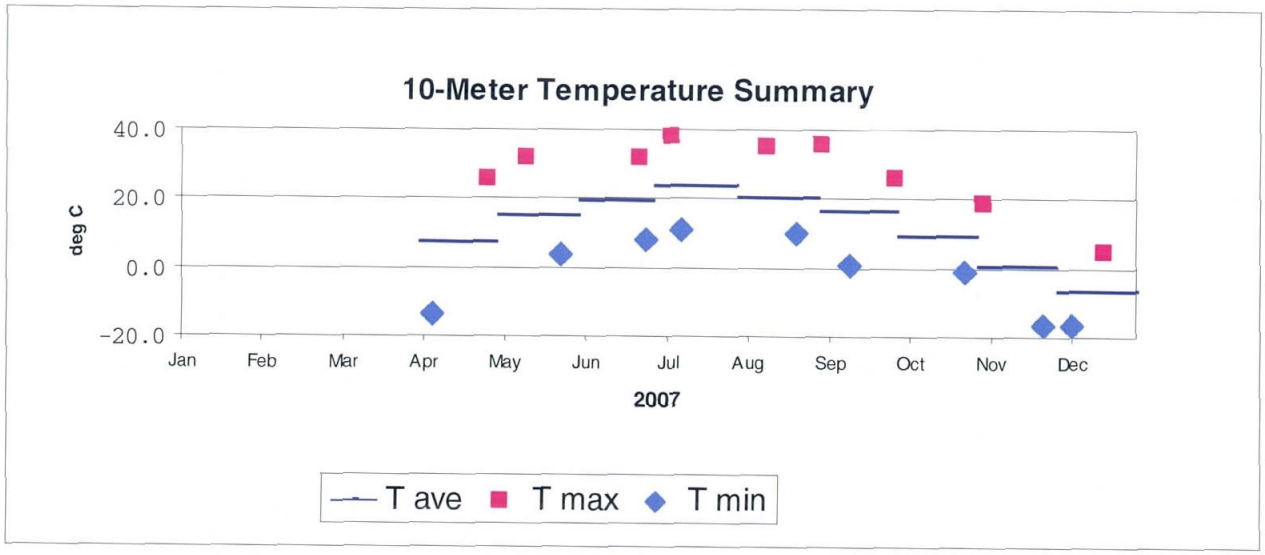

Figure 5-8 10-meter Temperature Summary

Table 5-6 50-meter Temperature Summary

	Temp Monthly Average deg C	Temp Monthly Max deg C	Date Max Occurred	Temp Monthly Min deg C	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	8.2	25.0	4/28/07	-12.8	4/7/07	572	720	79.4%
May-07	15.0	30.9	5/13/07	3.2	5/26/07	744	744	100.0%
Jun-07	19.6	31.6	6/25/07	8.5	6/28/07	467	720	64.9%
Jul-07	24.1	38.8	7/7/07	13.0	7/10/07	714	744	96.0%
Aug-07	20.4	35.5	8/13/07	10.9	8/24/07	744	744	100.0%
Sep-07	16.8	35.2	9/3/07	3.4	9/14/07	719	720	99.9%
Oct-07	10.0	25.2	10/01/07	-0.6	10/28/07	744	744	100.0%
Nov-07	1.1	18.0	11/04/07	-17.4	11/27/07	720	720	100.0%
Dec-07	-5.8	8.3	12/20/07	-16.5	12/08/07	662	744	89.0%

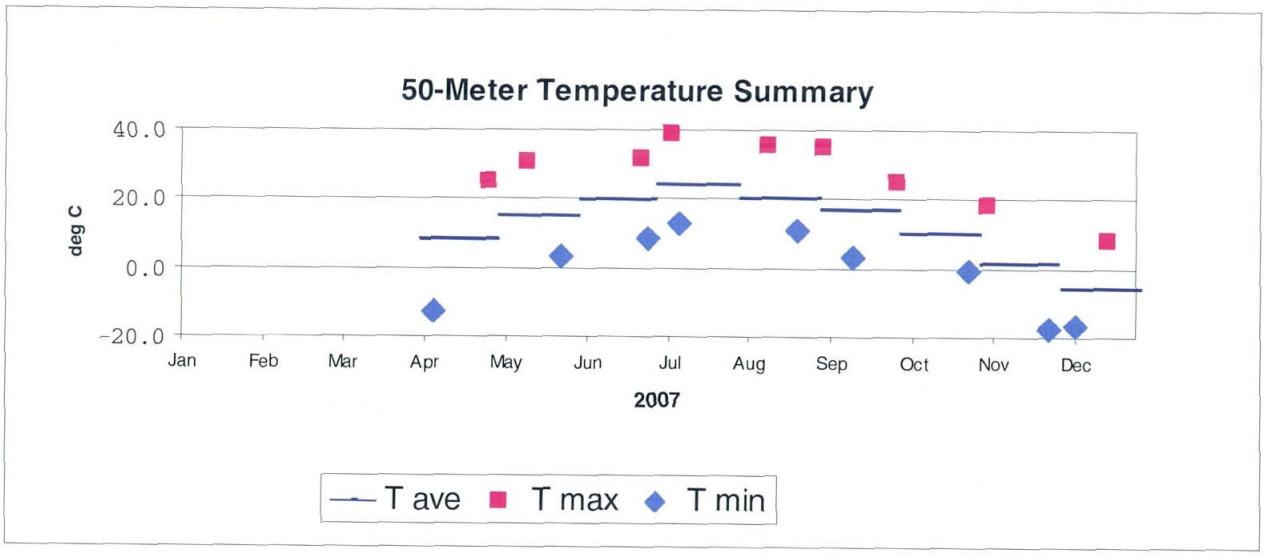

Figure 5-9 50-meter Temperature Summary

Table 5-7 100-meter Temperature Summary

	Temp. Monthly Average deg C	Temp. Monthly Max deg C	Date Max Occurred	Temp. Monthly Min deg C	Date Min Occurred	Hours of Valid Data	Hours of Data Possible	Valid Data Capture Percent
Apr-07	7.9	24.5	4/28/07	-12.6	4/7/07	588	720	81.7%
May-07	14.9	30.4	5/13/07	2.6	5/26/07	744	744	100.0%
Jun-07	19.6	31.3	6/25/07	8.8	6/28/07	467	720	64.9%
Jul-07	24.3	38.6	7/7/07	12.7	7/10/07	708	744	95.2%
Aug-07	20.4	35.0	8/13/07	11.1	8/25/07	744	744	100.0%
Sep-07	16.9	34.8	9/3/07	3.8	9/14/07	720	720	100.0%
Oct-07	10.1	24.8	10/01/07	0.5	10/11/07	744	744	100.0%
Nov-07	1.4	17.4	11/04/07	-17.9	11/27/07	720	720	100.0%
Dec-07	-5.1	8.9	12/20/07	-16.8	12/08/07	662	744	89.0%

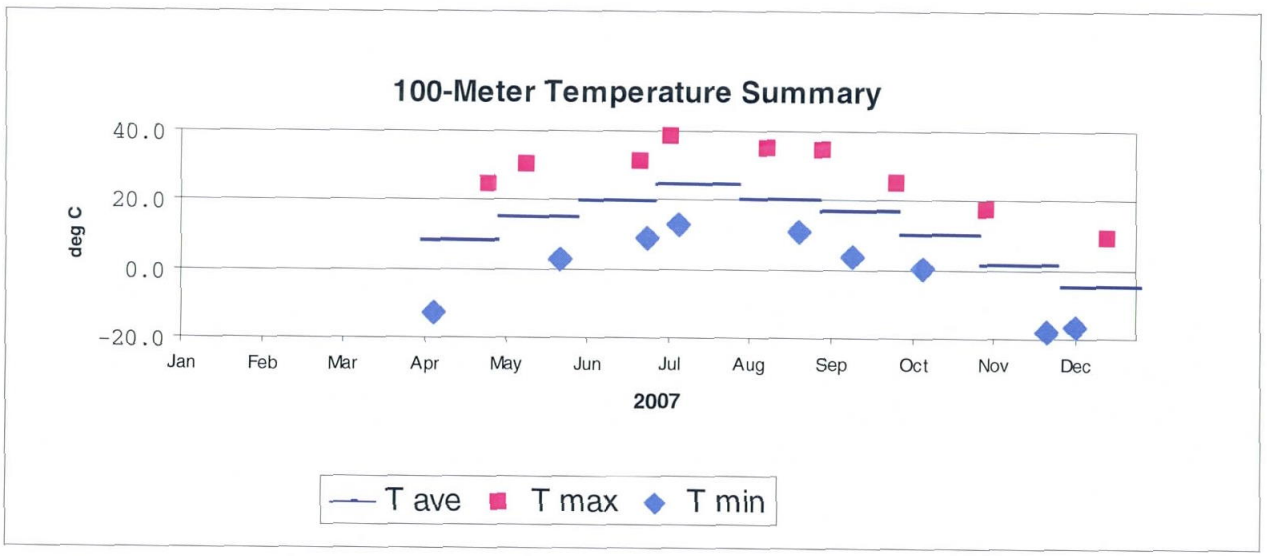

Figure 5-10 100-meter Temperature Summary

Table 5-8 10-2 Delta Temperature Summary

	Delta T Monthly Average deg C	Delta T Monthly Max deg C	Date Max Occurred	Delta T Monthly Min deg C	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	0.27	5.57	04/14/07	-5.47	04/09/07	588	720	81.7%
May-07	0.08	5.39	05/08/07	-1.69	05/24/07	744	744	100.0%
Jun-07	0.26	5.48	06/26/07	-1.28	06/28/07	467	720	64.9%
Jul-07	0.39	4.69	07/03/07	-2.32	07/12/07	707	744	95.0%
Aug-07	0.26	6.20	08/21/07	-1.49	08/14/07	744	744	100.0%
Sep-07	0.42	7.34	09/12/07	-1.53	09/12/07	719	720	99.9%
Oct-07	0.50	8.71	10/30/07	-1.57	10/06/07	744	744	100.0%
Nov-07	0.38	4.71	11/02/07	-1.09	11/08/07	720	720	100.0%
Dec-07	0.68	7.89	12/20/07	-0.95	12/11/07	662	744	89.0%

Deg C/m

Apr-07	0.03	0.70	04/14/07	-0.68	04/09/07	588	720	81.7%
May-07	0.01	0.67	05/08/07	-0.21	05/24/07	744	744	100.0%
Jun-07	0.03	0.69	06/26/07	-0.16	06/28/07	467	720	64.9%
Jul-07	0.05	0.59	07/03/07	-0.29	07/12/07	707	744	95.0%
Aug-07	0.03	0.78	08/21/07	-0.19	08/14/07	744	744	100.0%
Sep-07	0.05	0.92	09/12/07	-0.19	09/12/07	719	720	99.9%
Oct-07	0.06	1.09	10/30/07	-0.20	10/06/07	744	744	100.0%
Nov-07	0.05	0.59	11/02/07	-0.14	11/08/07	720	720	100.0%
Dec-07	0.09	0.99	12/20/07	-0.12	12/11/07	662	744	89.0%

Table 5-9 50-10 Delta Temperature Summary

	Delta T Monthly Average deg C	Delta T Monthly Max deg C	Date Max Occurred	Delta T Monthly Min deg C	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	0.59	6.47	04/29/07	-3.56	04/20/07	572	720	79.4%
May-07	0.21	5.47	05/09/07	-1.33	05/20/07	744	744	100.0%
Jun-07	0.27	4.33	06/19/07	-1.05	06/18/07	467	720	64.9%
Jul-07	0.45	5.60	07/16/07	-2.59	07/26/07	707	744	95.0%
Aug-07	0.29	5.64	08/22/07	-2.13	08/28/07	744	744	100.0%
Sep-07	0.55	7.01	09/16/07	-1.15	09/13/07	719	720	99.9%
Oct-07	0.72	8.42	10/30/07	-1.03	10/02/07	744	744	100.0%
Nov-07	0.81	6.46	11/03/07	-1.00	11/27/07	720	720	100.0%
Dec-07	1.28	7.61	12/20/07	-0.72	12/09/07	662	744	89.0%

Deg C/m

Apr-07	0.01	0.16	04/29/07	-0.09	04/20/07	572	720	79.4%
May-07	0.01	0.14	05/09/07	-0.03	05/20/07	744	744	100.0%
Jun-07	0.01	0.11	06/19/07	-0.03	06/18/07	467	720	64.9%
Jul-07	0.01	0.14	07/16/07	-0.06	07/26/07	707	744	95.0%
Aug-07	0.01	0.14	08/22/07	-0.05	08/28/07	744	744	100.0%
Sep-07	0.01	0.18	09/16/07	-0.03	09/13/07	719	720	99.9%
Oct-07	0.02	0.21	10/30/07	-0.03	10/02/07	744	744	100.0%
Nov-07	0.02	0.16	11/03/07	-0.03	11/27/07	720	720	100.0%
Dec-07	0.03	0.19	12/20/07	-0.02	12/09/07	662	744	89.0%

Table 5-10 100-50 Delta Temperature Summary

	Delta T Monthly Average deg C	Delta T Monthly Max deg C	Date Max Occurred	Delta T Monthly Min deg C	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	0.04	4.10	04/21/07	-0.95	04/08/07	572	720	79.4%
May-07	-0.11	3.44	05/13/07	-0.80	05/20/07	744	744	100.0%
Jun-07	-0.03	2.23	06/30/07	-0.67	06/19/07	467	720	64.9%
Jul-07	0.16	6.63	07/12/07	-1.38	07/27/07	706	744	94.9%
Aug-07	0.02	3.51	08/10/07	-1.06	08/20/07	744	744	100.0%
Sep-07	0.11	3.93	09/16/07	-0.75	09/21/07	719	720	99.9%
Oct-07	0.15	4.40	10/30/07	-0.70	10/02/07	744	744	100.0%
Nov-07	0.34	5.07	11/24/07	-0.64	11/17/07	720	720	100.0%
Dec-07	0.74	7.64	12/04/07	-0.58	12/09/07	662	744	89.0%

Deg C/m

Apr-07	0.00	0.08	04/21/07	-0.02	04/08/07	572	720	79.4%
May-07	0.00	0.07	05/13/07	-0.02	05/20/07	744	744	100.0%
Jun-07	0.00	0.04	06/30/07	-0.01	06/19/07	467	720	64.9%
Jul-07	0.00	0.13	07/12/07	-0.03	07/27/07	706	744	94.9%
Aug-07	0.00	0.07	08/10/07	-0.02	08/20/07	744	744	100.0%
Sep-07	0.00	0.08	09/16/07	-0.02	09/21/07	719	720	99.9%
Oct-07	0.00	0.09	10/30/07	-0.01	10/02/07	744	744	100.0%
Nov-07	0.01	0.10	11/24/07	-0.01	11/17/07	720	720	100.0%
Dec-07	0.01	0.15	12/04/07	-0.01	12/09/07	662	744	89.0%

Table 5-11 Solar Radiation Summary

	Sol Rad Monthly Total w/m^2	Sol Rad 24 hour Max w/m^2	Sol Rad 1 hour Max w/m^2	Date 1 hour Max Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	130450	7270	880	4/17/07	604	720	83.9%
May-07	184461	7799	905	5/14/07	744	744	100.0%
Jun-07	188287	8318	939	6/8/07	698	720	96.9%
Jul-07	207311	8316	927	7/6/07	734	744	98.7%
Aug-07	140500	6968	836	8/2/07	744	744	100.0%
Sep-07	127844	5932	760	9/2/07	720	720	100.0%
Oct-07	81131	4712	639	10/01/07	744	744	100.0%
Nov-07	57696	2992	477	11/01/07	720	720	100.0%
Dec-07	49994	2456	523	12/12/07	744	744	100.0%

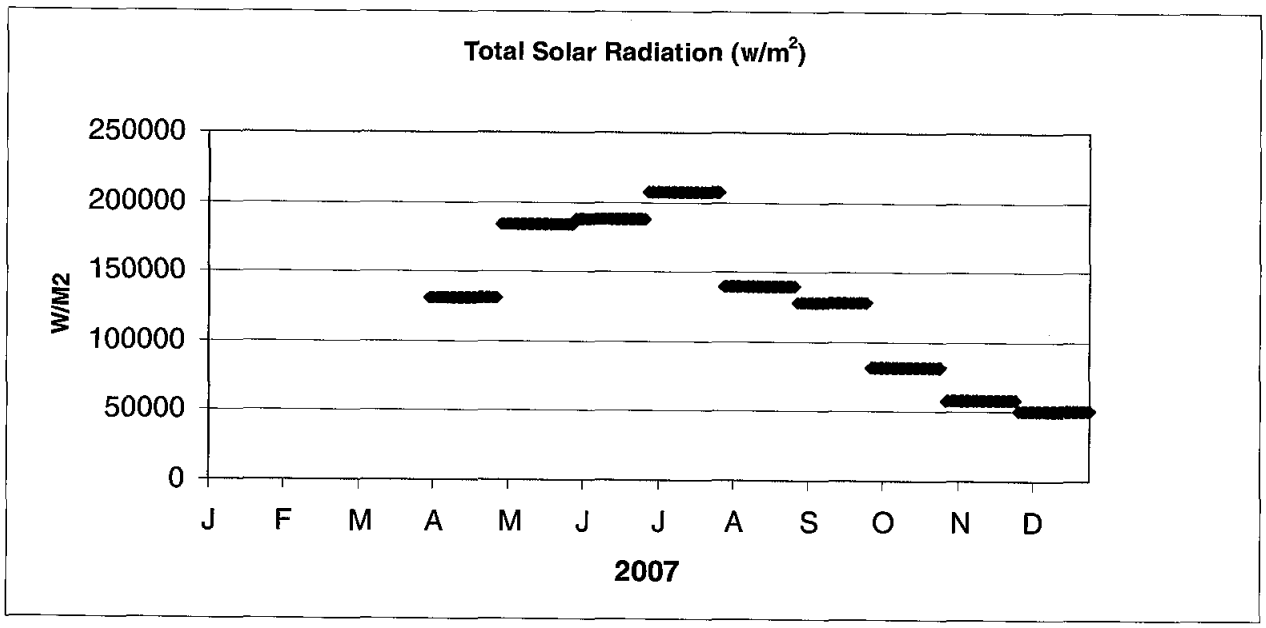

Figure 5-11 Solar Radiation

Table 5-12 Relative Humidity

	RH% Monthly Average	RH% Monthly Max	Date Max Occurred	RH% Monthly Min	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	63.2	99.1	4/21/07	18.7	4/28/07	602	720	83.6%
May-07	69.2	99.0	5/5/07	26.3	5/8/07	744	744	100.0%
Jun-07	74.7	98.3	6/14/07	29.1	6/9/07	720	720	100.0%
Jul-07	66.3	97.8	7/3/07	23.6	7/7/07	731	744	98.3%
Aug-07	75.9	99.1	8/19/07	24.0	8/2/07	744	744	100.0%
Sep-07	66.8	98.8	9/9/07	21.4	9/29/07	719	720	99.9%
Oct-07	72.2	99.0	10/17/07	20.9	10/3/07	744	744	100.0%
Nov-07	64.0	97.8	11/18/07	21.6	11/2/07	720	720	100.0%
Dec-07	82.3	97.0	12/15/07	32.3	12/18/07	744	744	100.0%

Table 5-13 Barometric Pressure Summary

	Pressure Monthly Average (mmHg)	Pressure Monthly Max (mmHg)	Date Max Occurred	Pressure Monthly Min (mmHg)	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	705	720	4/6/07	699	4/19/07	602	720	83.6%
May-07	705	714	5/16/07	695	5/21/07	744	744	100.0%
Jun-07	704	714	6/28/07	683	6/6/07	720	720	100.0%
Jul-07	707	847	7/23/07	697	7/7/07	737	744	99.1%
Aug-07	706	715	8/12/07	698	8/20/07	744	744	100.0%
Sep-07	705	716	9/9/07	694	9/21/07	720	720	100.0%
Oct-07	705	719	10/27/07	690	10/18/07	744	744	100.0%
Nov-07	707	717	11/06/07	695	11/13/07	720	720	100.0%
Dec-07	706	717	12/08/07	697	12/21/07	744	744	100.0%

Table 5-14 Precipitation Summary

	Precip. Monthly Total inches	Precip. 24 hour Max inches	Precip. 1 hour Max inches	Date 1 hour Max Occurred	Hours Of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	1.56	0.66	0.42	4/20/07	606	720	84.2%
May-07	4.58	2.33	0.96	5/22/07	744	744	100.0%
Jun-07	3.67	1.98	0.78	6/12/07	720	720	100.0%
Jul-07	1.86	1.53	1.41	7/13/07	734	744	98.7%
Aug-07	5.85	2.12	1.04	8/3/07	744	744	100.0%
Sep-07	1.26	0.45	0.30	9/8/07	720	720	100.0%
Oct-07	3.81	1.51	0.81	10/06/07	744	744	100.0%
Nov-07	0.00	0.00	0.00	NA	720	720	100.0%
Dec-07	0.14	0.13	0.03	12/01/07	739	744	99.3%

5.6 Barometric Pressure

Barometric pressure is measured using a Climatronics Model 102663-G0-10 pressure sensor. The pressure sensor is a piezoresistive device. The sensor is ideally suited to applications requiring accurate measurement of pressure. The sensor provides 0-1V DC over a 600 to 1,100 hPascals range.

5.7 Precipitation

A Climatronics Model 100097-1-G0 6-inch tipping bucket precipitation gauge is used to measure rainfall. Precipitation is channeled to a triangular bucket that tips once for each 0.01 inch of water collected. When the bucket empties, it activates a switch that is monitored and recorded by the data acquisition system.

5.8 Data Accuracy

A final independent quality assurance audit was on December 18, 2007. A copy of that report can be found in Appendix E. The report shows all audited systems to be operating within accuracy goals.

6.0 References

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U.S. Environmental Protection Agency (EPA). 2000. Meteorological Monitoring Guidance for Regulatory Modeling Applications. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina. EPA-454/R-99-005.

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Yamartino, R. J. 1984. A Comparison of Several "Single Pass" Estimators of the Standard Deviation of Wind.

Appendix A

Data Processing Specifications and Statistical Formulae

APPENDIX A

Data Processing Specifications and Statistical Formulae

A.1 PM_{10} Arithmetic Mean

The arithmetic mean was computed for each PM_{10} sampler using the following equation:

Arithmetic Mean =

$$\frac{1}{n}\sum_{j=1}^{n} PM_{10_j}$$

Where n is the number of valid samples and PM_{10j} is the individual PM_{10} concentrations measured.

A.2 Data Capture Percentage

The total data capture percentage (P_t) for each parameter is determined by:

$$P_t = \frac{h_v}{h_t} x\, 100$$

Where: h_v = number of hours of valid data
h_t = total hours in the period

A.3 Methods for Calculation of Precision and Accuracy Continuous Analyzer[1]

Statistics reported in this monitoring report are performed using the equations and methods according to Section 4 of Appendix A of 40 CFR Part 58 title Calculations for Data Quality Assessment.

A.4 Calculation of Hourly Sigma-Theta Values[2]

The hourly values of sigma-theta were calculated from the 15-minute averages using the following equation:

$$\sigma_\theta(hourly) = \sqrt{\frac{\sum_{i=1}^{n}\sigma_{\theta i}^2}{n}}$$

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[1]U.S.EPA 40 CFR Part 58 Appendix A (Revised October 2006) Ambient Air Quality Surveillance

[2]U.S. EPA. Guideline on Air Quality Models (Revised). EPA-450/2-78-027R. 1986.

Appendix B

Unit Vector Averaging Method for Wind Directions

APPENDIX B

Unit Vector Method for Averaging Wind Direction

The unit vector method for averaging wind direction reduces the wind direction for a given period to a "unit vector" and subsequently does not weight the north-south and east-west components of the wind direction by the wind speed. The formula for the components of the wind direction, both in the X-direction and the Y-direction, is as follows;

$$V_x = -(1/N)\,\Sigma \sin(A_i)$$
$$V_y = -(1/N)\,\Sigma \cos(A_i)$$

where A_i is the wind direction for a specific period and N is the number of such observations for the hour.

The formula for calculating wind direction is then:

$$\text{Vector Wind} = \text{Arc Tan}\,(V_x/V_y)$$

If the Y-direction component (V_y) is zero and the X-direction component (V_x) is non-zero, then the Vector Wind is set to 90°. However, if V_x is set to zero, the Unit Vector Wind is calculated based on the sign of the component winds in the formula below.

$$\text{Unit Vector Wind} = \text{Vector Wind} + \text{FLOW}$$

FLOW is determined by examining the signs of both V_x and V_y. If these are both less than or equal to zero, FLOW is set to zero. If V_x is negative, FLOW is set to 360°. If both are positive, FLOW is set to 180°. The algorithm below describes how FLOW is determined.

```
IF (Vy ≤ 0) THEN
    IF (Vx ≤ 0) THEN
        FLOW = 0°

    ELSE
        FLOW =360°
    ELSE
        FLOW = 180°
```

Appendix C

Quarterly Calibrations, Certifications, and Filter Processing Information

TECO 146 BIOS FLOW CALIBRATIONS

SITE:	Basin Electric		DATE:	12/4/07		SERIAL NUMBER:	30141-237
FLOW STANDARD:		BIOS	MODEL:	DC-1 Rev. E	SN 1837	CAL.DATE:	1/15/2007
FLOW STANDARD:		BIOS	MODEL:	DC-MC-1 Rev E	SN 809	CAL.DATE:	1/15/2007
PRESS:	700.1	mmHg	DEG C:	21.0	TEMP:	294.15	DEG/K
CORR. FAC. (QA TO QSTD = 298/760 * PA/TA) =						0.9329	

	AIR FLOW METER					GAS FLOW METER				
	BIOS			PVA		BIOS			PVA	
	FLOW CC/M	Y FLOW STD/CCM	X DISPLAY (AIR)	VOLTS		FLOW ACCM	Y FLOW STD/CCM	X DISPLAY (GAS)	VOLTS	
200	**1854**	1730	**1.98**	**0.994**		**15.60**	14.6	**13.5**	**0.636**	150
400	**4168**	3888	**4.01**	**1.976**		**32.70**	30.5	**27.5**	**1.261**	300
500	**5315**	4958	**5.02**	**2.468**		**54.66**	51.0	**46.4**	**2.090**	500
600	**6460**	6027	**6.04**	**2.959**		**65.65**	61.2	**55.7**	**2.511**	600
700	**7615**	7104	**7.06**	**3.451**		**76.62**	71.5	**65.1**	**2.928**	700
800	**8755**	8168	**8.06**	**3.938**		**87.83**	81.9	**74.6**	**3.335**	800
	M=	1057.85				**M=**	1.0996			
	B=	-359.33				**B=**	-0.034			
	CORR=	0.999997				**CORR=**	0.999974			

Front Panel Display Sets

	ZERO	GAS	OZONE
EXTERNAL	504	718	460
INTERNAL	599	175	470

ENSR

NO/NOX/NO2 CALIBRATION

NETWORK:	East Side Resource	SITE:	Basin Electric	DATE:	12/4/07	FINAL	Fourth Quarter 2007

Instrument:	42C	Station Calibrator:	TEI146		SN: 30141-237	Comment:	
SN:	70181-365	Cert. Date:					
NO Bkg	6.1	Internal Temp:	32.3	Air M= 1057.9	B= -359.3	External: 504, 718, 460	
NOX Bkg	6.5	Chamber Temp:	48.9	Gas M= 1.1	B= -0.034	Internal: 599, 175, 470	
NO Coeff	0.751	Cooler Temp	-2.3	DVM: Fluke 87V	SN: 90850057		
NOx Coeff	0.995	Converter Temp:	323.0	Cert. Date:	2/21/2007		
NO2 Coeff	1.000	Converter Set:	325.0	Station Gas SN: JJ8896	Conc: 31.1	Tech: TR/BCJ	
Sample Flow:	0.681	Pressure:	219.4	Cyl. Pressure: 1000	Exp Date: 3/8/2009	QA Review:	

Station Calibrator Settings					Input (ppm)			System Responses						Percent Difference		
O_3 Setting	Gas Setting	Air Setting	Gas Flow ccm	Air Flow ccm	NO_x	NO_2	NO	NOx DAS (ppm)	NO2 DAS (ppm)	NO DAS (ppm)	NOx Response (chart %)	NO2 Response (chart %)	NO Response (volts)	NOx bias/ Δ%	NO2 bias/ Δ%	NO bias/ Δ%
n/a	n/a	5.07	0.0	5000	0.000	0.000	0.000	-0.001	0.001	0.000	n/a	n/a	0.000	-0.001	n/a	0.000
n/a	15.9	6.01	17.4	6000	0.090	0.000	0.090	0.090	-0.001	0.089	n/a	n/a	0.175	-0.4	n/a	-1.5
n/a	29.5	5.07	32.4	5000	0.200	0.000	0.200	0.198	-0.001	0.199	n/a	n/a	0.397	-1.0	n/a	-0.8
n/a	66.8	5.07	73.4	5000	0.450	0.000	0.450	0.446	0.001	0.448	n/a	n/a	0.905	-0.9	n/a	-0.5
GPT Runs:																
470-Internal	66.8	5.07	73.4	5000	0.450	0.401	0.049	0.447	0.399	0.048	n/a	n/a	0.095	-0.7	-0.6	-0.9
350-Internal	66.8	5.07	73.4	5000	0.450	0.195	0.255	0.448	0.194	0.253	n/a	n/a	0.503	-0.5	-0.7	-0.6
445-external	66.8	5.07	73.4	5000	0.450	0.089	0.361	0.447	0.089	0.359	n/a	n/a	0.722	-0.6	0.2	-0.6
320-external	66.8	5.07	73.4	5000	0.450	0.032	0.418	0.447	0.031	0.416	n/a	n/a	0.834	-0.8	-0.001	-0.6

Internal Ozone Dial

NO_2 converted to NO for each GPT run:	0.402	0.9915	0.9956	0.9946	**<=Slope**
	0.197	-0.0002	-0.0004	-0.0002	**<=Intercept**
	0.090	1.0000	1.0000	1.0000	**<=R2**
	0.033				

Converter Efficiency: 100.4%

ENSR | AECOM

SO2 GAS DILUTION CALIBRATION

NETWORK:	East Side Resource	SITE:	Basin Electric	DATE:	12/6/07	Calibration	Fourth Quarter 2007

Instrument:	43A		Calibrator:	Teco 146	SN:	30141-237	Comments:
SN:	29727-236		Cert. Date:	12/4/07			
	Initial	Final	Air M=	1057.85	B=	-359.33	
Zero Set	256	275	Gas M=	1.100	B=	-0.034	
Span Set	85	10					
Flow	0.43	0.43 LPM	DVM:	Fluke 87V	SN:	90850057	
Vacuum	19.5	19.5	Cert. Date:	2/21/2007			
Lamp Volts	1063	1063 (800-1200)	Gas Cylinder SN:	JJ8896	Conc.:	30.3	
			Cylinder Pressure:	500	Exp Date:	3/8/2009	

Flows and Settings				Initial Results				Final Results			Delta %	
Gas Flow		Air Flow		Input	INITIAL			FINAL			Initial	Final
cc/m	Set	L/M	Set	SO2	DAS	Volt	Chart%	DAS	Volt	Chart%	% Error	% Error
N/A	N/A	5000	**5.07**	**.000**	0.001	0.003	na	-0.001	-0.001	na	N/A	N/A
73.41	**66.8**	5000	**5.07**	**.438**	0.500	0.836	na	0.440	0.876	na	14.0%	0.4%
32.36	**29.5**	5000	**5.07**	**.195**	0.221	0.441	na	0.196	0.387	na	13.4%	0.7%
17.41	**15.9**	6000	**6.01**	**.088**	0.091	0.183	na	0.088	0.171	na	3.2%	0.4%

M=	1.163842075	M=	1.003140195
B=	-0.009239657	B=	0.0003238
Corr.=	0.99990	Corr.=	1.00000

Signature: TR/BCJ

QA/QC:

note: it appears that changes were made to calibrator prior to doing intial SO2, making the initial error values meaningless...rlt (it passed audit earlier)

ENSR

OZONE CALIBRATION

DATE: 12/5/2007 NETWORK: East Side Resource STATION: Basin Electric

ANALYZER: TECO 49C SN 0517812012 Background: -0.09 COEF: 0.989

STANDARD: Teco 49TS SN: 33799-246 CERTIFICATION DATE: 12/5/07

SETTING	IN-STATION TS RESULT	PPM	DATALOGGER RESULT	PPM	DELTA %	DISPLAY PPM	CHART %	CHART PPM
	0.001		-0.001			-0.001		
	0.001		0.001			-0.001		
Switch 6,5,1	0.001	0.001	0.001	0.000	-0.001	-0.001		0.000
	0.001		-0.001			-0.001		
	0.001		0.000			-0.001		
AVG	0.001		0.000			-0.001		
	0.453		0.452			0.450		
	0.454		0.452			0.450		
Switch 7,5,1	0.454	0.454	0.454	0.453	-0.3%	0.451		0.000
Level 1	0.455		0.453			0.450		
57.0%	0.455		0.453			0.450		
AVG	0.454		0.453			0.450		
	0.200		0.198			0.175		
	0.200		0.198			0.176		
Switch 7,5,1	0.200	0.200	0.199	0.198	-1.1%	0.176		0.000
Level 1	0.200		0.197			0.175		
39.0%	0.200		0.199			0.176		
AVG	0.200		0.198			0.176		
	0.093		0.092			0.091		
	0.093		0.091			0.091		
Switch 8,5,1	0.093	0.093	0.092	0.092	-1.6%	0.091		0.000
Level 2	0.093		0.092			0.090		
32.0%	0.093		0.092			0.090		
AVG	0.093		0.092			0.091		

M= 0.999978 B= -0.001514 CORR.= 0.999998

INTENSITY A: 146544 INTENSITY B: 73160 O_3 LAMP: 70.7

FLOW A: 0.660 FLOW B: 0.621 BENCH LAMP TEMP: 56.3

PRESSURE: 712.0 BENCH TEMP: 32.9

Comments:

TECH: TR/BCJ

QA/QC: TR

HI VOLUME SAMPLER CALIBRATION
(VFC TYPE SAMPLER)
PM_{10}

SAMPLING NETWORK: East Side Resource SITE: Basin Electric DATE: 12/5/2007

SAMPLER: PM10# 1	ORIFICE SN: 1170	BP (mmHg) : 710.6 =P(a)
SN: 904	CALIBRATION DATE: 4/25/2007	SEASONAL PRESSURE (mmHg) : 708.0 =P(s)
MAN: Tisch Environmental	M= 0.95733	AMBIENT TEMP (°C) : -11.0 =T(a)
	B= 0.00492	AMBIENT TEMP (°K) : 262.2 =T(a)
	R= 0.99997	SEASONAL TEMP (°K) : 273.1 =T(s)

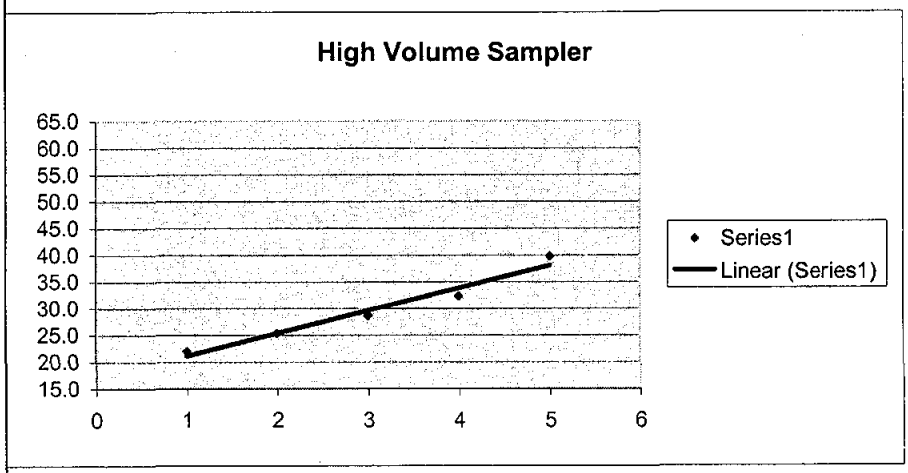
REASON FOR CALIBRATION: Quarterly Calibration

	ORIFICE FLOW				INDICATED (I)		
		X axis			Y axis	2.4	
SETTING	TOTAL H2O (in.H2O)	Qa M^3/min	Qa CFM	Qa $(Ta)^{1/2}$	Pstg (in.H20)	P1=Pa-Pstg mmHg	P1/Pa
1	2.80	1.057	37.3	0.0653	22.0	669.46	0.9421
2	2.72	1.041	36.8	0.0643	25.3	663.29	0.9334
3	2.66	1.030	36.4	0.0636	28.6	657.12	0.9247
4	2.59	1.016	35.9	0.0627	32.3	650.22	0.9150
5	2.45	0.988	34.9	0.0610	39.8	636.27	0.8954
OPERATIONAL FLOW RATE-Qa			1.0678	37.7	18.7	675.63	0.9508
OPERATIONAL FLOW RATE-QaAVG			1.0899	38.5	18.7	673.03	0.9506

QA(orifice)= [{(dH2O)(Ta/Pa)}]SQRT- B] / M

SAMPLER CALIBRATION RELATIONSHIP

M= 11.1673 B= 0.2143 CORR.= 0.9993



For calculation of sampler flow rate:
$Qa=[(P1/Pa-B)(Ta^{1/2})]/M$
$QaAVG=[(P1/Pavg-B)(Tavg^{1/2})]/M$
(Corrected to mean average conditions)
PM10 Flows (36-44 acfm)

TECH: TR/BCJ
QA Review

Comments: Cleaned impaction plate and re-greased surfurce

HI VOLUME SAMPLER CALIBRATION
(VFC TYPE SAMPLER)
PM_{10}

SAMPLING NETWORK: East Side Resources SITE: Basin Electric DATE: 12/5/2007

SAMPLER: PM10 #2	ORIFICE SN: 1170	BP (mmHg) : 711.5 =P(a)
SN: 903	CALIBRATION DATE: 4/25/2007	SEASONAL PRESSURE (mmHg) : 708.0 =P(s)
MAN: Tisch Environmental	M= 0.95733	AMBIENT TEMP (°C) : -12.0 =T(a)
	B= 0.00492	AMBIENT TEMP (°K) : 261.2 =T(a)
	R= 0.99997	SEASONAL TEMP (°K) : 273.1 =T(s)

REASON FOR CALIBRATION: Quarterly Calibration

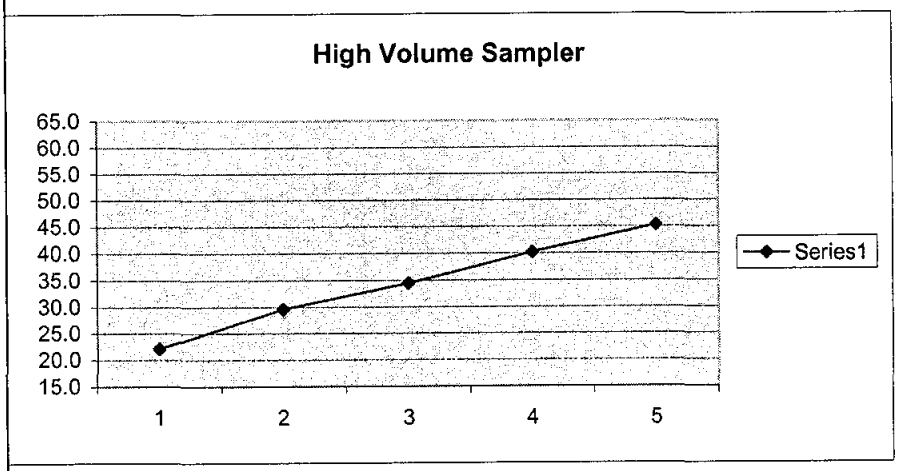
	ORIFICE FLOW		X axis		Y axis	INDICATED (I)	
SETTING	TOTAL H2O (in.H2O)	Qa M^3/min	Qa CFM	Qa $(Ta)^{1/2}$	Pstg (in.H20)	P1=Pa-Pstg mmHg	P1/Pa
1	2.83	1.060	37.4	0.0656	22.1	670.22	0.9420
2	2.65	1.025	36.2	0.0634	29.6	656.15	0.9223
3	2.55	1.005	35.5	0.0622	34.4	647.16	0.9096
4	2.43	0.981	34.7	0.0607	40.2	636.31	0.8944
5	2.32	0.959	33.9	0.0593	45.2	626.85	0.8811
OPERATIONAL FLOW RATE-Qa		1.0739	37.9		18.53	676.80	0.9513
OPERATIONAL FLOW RATE-QaAVG		1.0983	38.8		18.53	673.35	0.9511

QA(orifice)= [{(dH2O)(Ta/Pa)}]SQRT- B] / M

seasonal pressure corrected from 700.5 to 708 by rlt...1/28/08

SAMPLER CALIBRATION RELATIONSHIP

M= 9.8606 B= 0.2960 CORR.= 0.9998



For calculation of sampler flow rate:
$Qa=[(P1/Pa-B)(Ta^{1/2})]/M$
$QaAVG=[(P1/Pavg-B)(Tavg^{1/2})]/M$
(Corrected to mean average conditions)
PM10 Flows (36-44 acfm)

TECH: TR/BCJ
QA Review

Comments: Cleaned impaction plate and re-greased surfurce

ENSR INTERNATIONAL

HIGH VOLUME SAMPLER CALIBRATION
(VFC Type sampler)
PM-10

Sampling Network:	East Side Resource	**Site:** Basin Electric		Cal Date:	**9/29/07@930**		
Sampler:	#1	Orifice SN:	W95	Barometric Pressure (mmhg):		**698.7**	=(Pa)
SN:	PM10	Calibration. Date:	05/25/07	Seasonal Mean Pressure (mmhg):		**708.0**	=(Ps)
Man.	**Tisch**	M=	1.0561	C	22.6 Ambient Temp (K):	**295.8**	=(Ta)
		B=	-0.09464	Seasonal Avg. Temp (K):		**293.1**	=(Ts)

Temp K = 273.15+C

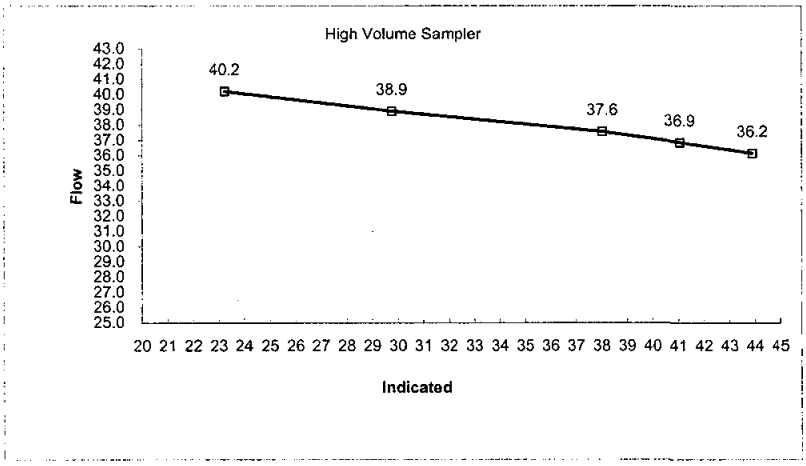
Reason for calibration= new motor

ORIFICE FLOW				Xaxis		INDICATED (I)		Yaxis		
Setting	Total H2O (in.H2O)	Qa M^3/min	Qa cfm	Qa $(Ta)^{1/2}$		Pstg (in.H2O)	P1=Pa-Pstg mm/hg	P1/Pa	Ave Temp C	
1	**2.90**	**1.139**	40.2	0.0662		**23.22**	**655.28**	0.9379	jan-mar	-5.8
2	**2.70**	**1.102**	38.9	0.0641		**29.75**	**643.07**	0.9204	apr-jun	13.0
3	**2.50**	**1.064**	37.6	0.0618		**38.02**	**627.60**	0.8982	jul-sep	19.9
4	**2.40**	**1.044**	36.9	0.0607		**41.05**	**621.94**	0.8901	oct-dec	-0.02
5	**2.30**	**1.024**	36.2	0.0595		**43.88**	**616.64**	0.8826		
Opertional Flow Rate-Qa		**1.173**	41.4			**16.9**	**667.10**	0.9548		
Opertional Flow Rate-QaAVG		**1.168**	41.2			**16.9**	**676.40**	0.9554		

QA(orifice) = [((dH2O)(Ta/Pa))SQRT - B] / M

Sampler Calibration Relationship

M= **8.5028** B= **0.3746** Corr. **0.99772**



For calculation of sampler flow rate:
Qa = [(P1/Pa-B)(Ta$^{1/2}$)] / M
QaAVG = [(P1/Pavg-B)(Tavg$^{1/2}$)] / M
(Corrected to mean average conditions)
PM10 Flow 36acfm-44acfm

Technician BJ
QC review

ENSR INTERNATIONAL

HIGH VOLUME SAMPLER CALIBRATION
(VFC Type sampler)
PM-10

Sampling Network:	East Side Resource	**Site:** Basin Electric		Cal Date:	**9/29/07@900**		
Sampler:	#2	Orifice SN:	W95	Barometric Pressure (mmhg):		**698.7**	=(Pa)
SN:	PM10	Calibration. Date:	05/25/07	Seasonal Mean Pressure (mmhg):		**708.0**	=(Ps)
Man.	**Tisch**	M=	1.0561	C	22.6 Ambient Temp (K):	**295.8**	=(Ta)
		B=	-0.09464	Seasonal Avg. Temp (K):		**293.1**	=(Ts)

Temp K = 273.15+C

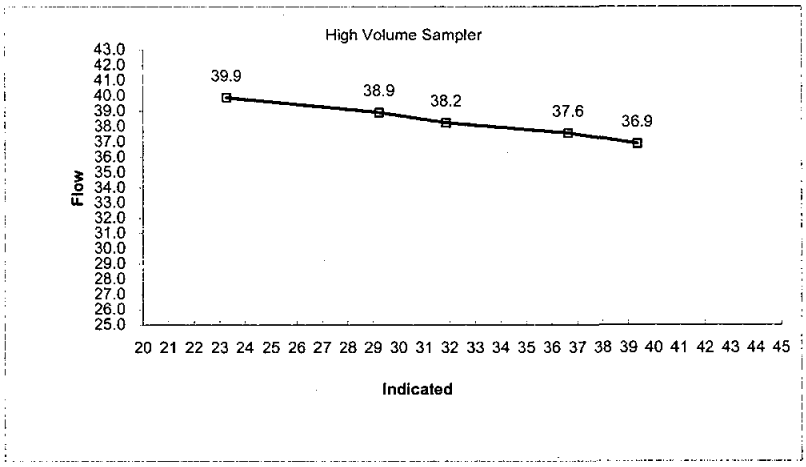
Reason for calibration= new motor

ORIFICE FLOW						INDICATED (I)				
				Xaxis				Yaxis		
Setting	Total H2O (in.H2O)	Qa M^3/min	Qa cfm	Qa $(Ta)^{1/2}$		Pstg (in.H2O)	P1=Pa-Pstg mm/hg	P1/Pa	Ave Temp C	
1	**2.85**	**1.130**	39.9	0.0657		**23.27**	**655.19**	0.9377	jan-mar	-5.8
2	**2.70**	**1.102**	38.9	0.0641		**29.23**	**644.04**	0.9218	apr-jun	13.0
3	**2.60**	**1.083**	38.2	0.0630		**31.86**	**639.12**	0.9147	jul-sep	19.9
4	**2.50**	**1.064**	37.6	0.0618		**36.64**	**630.18**	0.9019	oct-dec	-0.02
5	**2.40**	**1.044**	36.9	0.0607		**39.35**	**625.12**	0.8947		
Opertional Flow Rate-Qa		**1.163**	41.1			**17.1**	**666.72**	0.9542		
Opertional Flow Rate-QaAVG		**1.158**	40.9			**17.1**	**676.02**	0.9548		

QA(orifice) = [{(dH2O)(Ta/Pa)}SQRT - B] / M

Sampler Calibration Relationship

M=	**8.7172**	B=	**0.3645**	Corr.	**0.99666**



For calculation of sampler flow rate:
Qa = [(P1/Pa-B)(Ta$^{1/2}$)] / M
QaAVG = [(P1/Pavg-B)(Tavg$^{1/2}$)] / M
(Corrected to mean average conditions)
PM10 Flow 36acfm-44acfm

Technician **BJ**
QC review

STATION 1

BAM 1020 Calibration Sheet

Model:	1020
S/N	G 4595
Audit Date:	12/5/2007

Audited By: BCJ

Flow Audits			
	Model	S/N	Cal Date:
Flow Reference Standard Used:	Bios DC-HC-1	1837	1/15/2007
Temperature Standard Used:	Techne 4400	304004	1/10/2007
Barometric Standard Used:	AIR -HB-2A	3C2430	1/17/2007

Leak Check Value (LPM): as found: 0.2 as left: 0.2

		BAM	Ref. Std.			BAM	Ref. Std.
Ambient Temperature:	as found:	-6.8	-6.8	C	as left:	-6.8	-6.8
Barometric Pressure:	as found:	713	713	mmHg	as left:	713	713
Flow Rate (Actual Volumetric):	as found:	16.7	16.7	lpm	as left:	16.7	16.7
Flow Rate (EPA Sandard):	as found:			lpm	as left:		

Mechanical Audits		
	as found:	as left:
Pump muffler unclogged:	yes	yes
Sample nozzle clean:	yes	yes
Tape support vane clean:	yes	yes
Capstan shaft clean:	yes	yes
Rubber pinch rollers clean:	yes	yes
Chassis Ground wire installed:	yes	yes
PM 10 Particle trap clean:	yes	yes
PM 10 drip jar empty:	yes	yes
PM 10 bug screen clear:	yes	yes
PM 2.5 particle trap clean:	yes	yes
Inlet ube water tight seal OK:	yes	yes
Inlet tube perpendicular to BAM:	yes	yes

Flow Control Range	
Flow Setpoint (LPM)	BAM Flow (LPM)
15	15.0
16.7	16.7
18.4	18.4

Membrane Audit	
LAST m (mg):	0.8
ABS (mg):	0.796
Difference (mg):	-0.004
% Difference:	-0.50

Setup and Calibration Values								
Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock time/date	OK	OK	FLOW TYPE	Actual	Actual	AP	150	150
RS232	9600 8N1	9600 8N1	Cv	0.998	0.998	FR1	10	10
STATION #	1	1	Qo	0.000	0.000	FRH	20	20
RANGE (mg)	1.00	1.00	ABS	0.796	0.796	Password	F1 F2 F3 F4	F1 F2 F3 F4
BAM SAMPLE (min)	42	42	µsw:	0.306	0.306	Cycle Mode	Standard	Standard
MET SAMPLE (min)	60	60	K FACTOR	0.956	0.956	RH Control	Yes	Yes
OFFSET (mg)	-0.015	-0.015	BKGD	-0.0032	-0.0032	RH Setpoint (%)	35	35
CONC UNITS	mg/m3	mg/m3	STD TEMP (C°)	25	25	Datalog RH (CH4)	Yes	Yes
COUNT TIME (min)	8	8	HEATER	Auto	Auto	Delta-T Control	No	No
FLOW RATE (LPM)	16.7	16.7	e1	-0.005	-0.005	Delta-T Set. (C°)	10	10
CONC TYPE	Actual	Actual	Errors	none	none	Datalog D/T (CH5)	Yes	Yes

Last 6 Errors in BAM 1020 Error Log					
Error	Date	Time	Error	Date	Time
1			4		
2			5		
3			6		

Comments:

STATION 2

BAM 1020 Calibration Sheet

Model:	1020
S/N	G 4594
Audit Date:	12/5/2007

Audited By: BCJ

Flow Audits			
	Model	S/N	Cal Date:
Flow Reference Standard Used:	Bios DC-HC-1	1837	1/15/2007
Temperature Standard Used:	Techne 4400	304004	1/10/2007
Barometric Standard Used:	AIR -HB-2A	3C2430	1/17/2007

Leak Check Value (LPM): as found: 0.2 as left: 0.2

		BAM	Ref. Std.			BAM	Ref. Std.
Ambient Temperature:	as found:	-6.8	-6.8	C	as left:	-6.8	-6.8
Barometric Pressure:	as found:	713	713	mmHg	as left:	713	713
Flow Rate (Actual Volumetric):	as found:	16.7	16.7	lpm	as left:	16.7	16.7
Flow Rate (EPA Sandard):	as found:			lpm	as left:		

Mechanical Audits		
	as found:	as left:
Pump muffler unclogged:	yes	yes
Sample nozzle clean:	yes	yes
Tape support vane clean:	yes	yes
Capstan shaft clean:	yes	yes
Rubber pinch rollers clean:	yes	yes
Chassis Ground wire installed:	yes	yes
PM 10 Particle trap clean:	yes	yes
PM 10 drip jar empty:	yes	yes
PM 10 bug screen clear:	yes	yes
PM 2.5 particle trap clean:	yes	yes
Inlet ube water tight seal OK:	yes	yes
Inlet tube perpendicular to BAM:	yes	yes

Flow Control Range	
Flow Setpoint (LPM)	BAM Flow (LPM)
15	15.0
16.7	16.7
18.4	18.4

Membrane Audit	
LAST m (mg):	0.828
ABS (mg):	0.827
Difference (mg):	-0.001
% Difference:	-0.12

Setup and Calibration Values								
Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock time/date	OK	OK	FLOW TYPE	Actual	Actual	AP	150	150
RS232	9600 8N1	9600 8N1	Cv	0.9	0.9	FR1	10	10
STATION #	2	2	Qo	-0.097	-0.097	FRH	20	20
RANGE (mg)	1.000	1.000	ABS	0.827	0.827	Password	F1 F2 F3 F4	F1 F2 F3 F4
BAM SAMPLE (min)	42	42	µsw:	0.303	0.303	Cycle Mode	Standard	Standard
MET SAMPLE (min)	60	60	K FACTOR	0.949	0.949	RH Control	Yes	Yes
OFFSET (mg)	-0.015	-0.015	BKGD	-0.0064	-0.0064	RH Setpoint (%)	35	35
CONC UNITS	mg/m3	mg/m3	STD TEMP (C°)	25	25	Datalog RH (CH4)	Yes	Yes
COUNT TIME (min)	8	8	HEATER	Auto	Auto	Delta-T Control	No	No
FLOW RATE (LPM)	16.7	16.7	e1	-0.005	-0.005	Delta-T Set. (C°)	10	10
CONC TYPE	Actual	Actual	Errors	none	none	Datalog D/T (CH5)	Yes	Yes

Last 6 Errors in BAM 1020 Error Log							
	Error	Date	Time		Error	Date	Time
1	NONE			4			
2				5			
3				6			

Comments:

ENSR

Wind Speed Calibration Form

Network : East Side Resources Site : Basin Electric Date : 12/4/2007

Location: Gettysburg, SD Initial/Final Initial Tech: TR/BCJ

Sensor /Instrument		Standard Information					
		Anemometer Drive Motors		Torque Wheel		DVM	
Make:	Climatronics	Make:	RM Young	Make:	RM Young	Make:	Fluke
Model:	100075	Model:	18820-30-31	Model:	18312	Model:	87V
Serial No:	5151	Serial No:	20101	Serial No:	NA	Serial No:	90850057
Cup SN:	216	Cal. Date:	1/9/07	Cal. Date:	NA	Cal. Date:	2/21/2007
WS Level:	10m						

INITIAL SYSTEM CHECKS

Range: 0 to 50 m/s

Sensor	Motor RPM	Ideal Freq. (Hz)	Ideal WS (mph)	DAS WS (mph)	Tolerance (± 0.45 mph + 5% of Des.)	Error	PASS/FAIL
Torque: 0.2	0	0	0.3	0.3	0.46	0.00	PASS
(max 0.2 gm/cm)	300	150	16.1	16.07	1.25	0.00	PASS
Bearings: replace	900	450	47.6	47.6	2.83	0.02	PASS
Cups: ok	1800	900	94.9	94.9	5.19	0.01	PASS

FINAL SYSTEM CHECKS

Sensor	Motor RPM	Ideal Freq. (Hz)	Ideal WS (mph)	DAS WS (mph)	Tolerance (± 0.45 mph + 5% of Des.)	Error	PASS/FAIL
Torque: <0.1	0	0	0.3	0.3	0.46	0.00	PASS
(max 0.2 gm/cm)	300	150	16.1	16.07	1.25	0.00	PASS
Bearings: replaced	900	450	47.6	47.6	2.83	0.02	PASS
Cups: ok	1800	900	94.9	94.9	5.19	0.04	PASS

Comments: Replaced Bearings

ENSR

Wind Speed Calibration Form

Network : East Side Resources Site : Basin Electric Date : 12/4/2007

Location: Gettysburg, SD Initial/Final Initial Tech: TR/BCJ

Sensor /Instrument		Standard Information					
		Anemometer Drive Motors		Torque Wheel		DVM	
Make:	Climatronics	Make:	RM Young	Make:	RM Young	Make:	Fluke
Model:	100075	Model:	18820-30-31	Model:	18312	Model:	87V
Serial No:	1528	Serial No:	20101	Serial No:	NA	Serial No:	90850057
Cups SN:	1074	Cal. Date:	1/9/07	Cal. Date:	NA	Cal. Date:	2/21/2007
WS Level:	50m						

INITIAL SYSTEM CHECKS

Range: 0 to 50 m/s

Sensor	Motor RPM	Ideal Freq. (Hz)	Ideal WS (mph)	DAS WS (mph)	Tolerance (± 0.45 mph + 5% of Des.)	Error	PASS/FAIL
Torque: 0.1	0	0	0.3	0.3	0.46	0.00	PASS
(max 0.2 gm/cm)	300	150	16.1	16.07	1.25	0.00	PASS
Bearings: good	900	450	47.6	47.6	2.83	0.02	PASS
Cups: good	1800	900	94.9	94.9	5.19	0.04	PASS

FINAL SYSTEM CHECKS

Sensor	Motor RPM	Ideal Freq. (Hz)	Ideal WS (mph)	DAS WS (mph)	Tolerance (± 0.45 mph + 5% of Des.)	Error	PASS/FAIL
Torque:	0	0	0.3		0.46	0.30	
(max 0.2 gm/cm)	300	150	16.1		1.25	16.07	
Bearings:	900	450	47.6		2.83	47.62	
Cups:	1800	900	94.9		5.19	94.94	

Comments: No Final Checks

ENSR

Wind Speed Calibration Form

Network : East Side Resources Site : Basin Electric Date : 12/4/2007

Location: Gettysburg, SD Initial/Final Initial Tech: TR/BCJ

Sensor /Instrument		Standard Information					
		Anemometer Drive Motors		Torque Wheel		DVM	
Make:	Climatronics	Make:	RM Young	Make:	RM Young	Make:	Fluke
Model:	100075	Model:	18820-30-31	Model:	18312	Model:	87V
Serial No:	5098	Serial No:	20101	Serial No:	NA	Serial No:	90850057
Cup SN:	1094	Cal. Date:	1/9/07	Cal. Date:	NA	Cal. Date:	2/21/2007
WS Level:	100m						

INITIAL SYSTEM CHECKS

Range: 0 to 50 m/s

Sensor	Motor RPM	Ideal Freq. (Hz)	Ideal WS (mph)	DAS WS (mph)	Tolerance (± 0.45 mph + 5% of Des.)	Error	PASS/FAIL
Torque: 0.1	0	0	0.3	0.46	0.46	-0.16	PASS
(max 0.2 gm/cm)	300	150	16.1	16.07	1.25	0.00	PASS
Bearings: good	900	450	47.6	47.6	2.83	0.02	PASS
Cups: good	1800	900	94.9	94.9	5.19	0.04	PASS

FINAL SYSTEM CHECKS

Sensor	Motor RPM	Ideal Freq. (Hz)	Ideal WS (mph)	DAS WS (mph)	Tolerance (± 0.45 mph + 5% of Des.)	Error	PASS/FAIL
Torque:	0	0	0.3		0.46	0.30	
(max 0.2 gm/cm)	300	150	16.1		1.25	16.07	
Bearings:	900	450	47.6		2.83	47.62	
Cups:	1800	900	94.9		5.19	94.94	

Comments: No Final Checks

Vertical Wind Speed Calibration Form

Network : East Side Resources Site : Basin Electric Date : 12/4/2007

Location: Gettysburg, SD Initial/Final Initial Tech: TR/BCJ

Sensor /Instrument					
Make:	Climatronics	Make:	Climatronics	Make:	Climatronics
Model:	102236-G0	Model:	102236-G0	Model:	102236-G0
Serial No:	169	Serial No:	171	Serial No:	170
Prop SN:	63226	Prop SN:	62473	Prop SN:	63280
VWS Level:	10m	VWS Level:	50m	VWS Level:	100m

Standard Information					
Anemometer Drive Motors		Torque Wheel		DVM	
Make:	RM Young	Make:	RM Young	Make:	Fluke
Model:	188831-30	Model:	18312	Model:	87V
Serial No:	20101	Serial No:	NA	Serial No:	90850057
Cal. Date:	1/9/07	Cal. Date:	NA	Cal. Date:	2/21/2007

INITIAL SYSTEM CHECKS

Sensor	Motor RPM	Ideal output mV	Ideal VWS (m/s)	DAS VWS (m/s)	Tolerance (± 0.2 ms + 5% of Des.)	Error	PASS/FAIL
10m	0	NA	0.00	0.12	0.2	0.12	PASS
Sensor Torque	300 CW	83	1.87	2.00	0.3	0.13	PASS
CW: <0.1	300 CCW	-83	-1.87	-1.81	0.3	0.06	PASS
CCW: <0.1	600 CW	166	3.75	3.87	0.4	0.12	PASS
(max 0.2 gm/cm)	600 CCW	-166	-3.75	-3.71	0.4	0.04	PASS
	900 CW	250	5.63	5.73	0.5	0.11	PASS
Props: OK	900 CCW	-250	-5.62	-5.64	0.5	0.02	PASS

Sensor	Motor RPM	Ideal output mV	Ideal VWS (m/s)	DAS VWS (m/s)	Tolerance (± 0.2 ms + 5% of Des.)	Error	PASS/FAIL
50m	0	NA	0.00	0.02	0.2	0.02	PASS
Sensor Torque	300 CW	83	1.87	1.91	0.3	0.04	PASS
CW: <0.1	300 CCW	-83	-1.87	-1.89	0.3	0.02	PASS
CCW: <0.1	600 CW	166	3.75	3.8	0.4	0.05	PASS
(max 0.8 gm/cm)	600 CCW	-166	-3.75	-3.77	0.4	0.02	PASS
	900 CW	250	5.63	5.69	0.5	0.07	PASS
Props: OK	900 CCW	-250	-5.62	-5.68	0.5	0.06	PASS

Sensor	Motor RPM	Ideal output m/V mV	Ideal VWS (m/s)	DAS VWS (m/s)	Tolerance (± 0.2 ms + 5% of Des.)	Error	PASS/FAIL
100m	0	NA	0.00	0.00	0.2	0.00	PASS
Sensor Torque	300 CW	83	1.87	1.91	0.3	0.04	PASS
CW: 0.1	300 CCW	-83	-1.87	-1.9	0.3	0.03	PASS
CCW: 0.1	600 CW	166	3.75	3.78	0.4	0.03	PASS
(max 0.8 gm/cm)	600 CCW	-166	-3.75	-3.79	0.4	0.04	PASS
	900 CW	250	5.63	5.67	0.5	0.04	PASS
Props: OK	900 CCW	-250	-5.62	-5.68	0.5	0.06	PASS

Comments:

10m WIND DIRECTION

Wind Direction Calibration

Network :	East Side Resources	Site :	Basin Electric	Date :	12/4/2007
Location:	Gettysburg, SD	Initial/Final	Initial	Tech:	TR/BCJ

Sensor /Instrument	Sensor Alignment	
	Landmark 1:	Landmark 2:
Make: Climatronics	Description: Radome near due west	Description: Radio Tower SE
Model: 100076		
Serial No: 4829		
Vane SN: 3719		
WD Level: 10m	Direction (TRUE): 276	Direction (TRUE): 154
Range: 0 to 360 deg		

Sensor Performance

initial

Sensor Orientation	Ideal Azimuth	DAS Degrees	Error Degrees	Tolerance ± 5 Degrees	PASS/FAIL
To Landmark 1	276.0	274.7	-1.3	5.0	PASS
From Landmark 1	96.0	91	-5.0	5.0	PASS
To Landmark 2	154.0	151.1	-2.9	5.0	PASS
From Landmark 2	334.0	333.4	-0.6	5.0	PASS

Sensor Linearity Check

Clockwise					Counter-Clockwise			
Input Value (Degrees)	Das Output (Degrees)	Error Absolute (Degrees)	Error Normalized (Degrees)	(Pass/Fail)	Das Output (Degrees)	Error Absolute (Degrees)	Error Normalized (Degrees)	(Pass/Fail)
1	341.0							
2	8.2	27.2	-2.8	Pass				
3	38.0	29.9	-0.1	Pass				
4	68.0	30.0	0.0	Pass				
5	98.6	30.6	0.6	Pass				
6	128.9	30.3	0.3	Pass				
7	158.6	29.8	-0.2	Pass				
8	189.2	30.5	0.5	Pass				
9	219.5	30.4	0.4	Pass				
10	249.9	30.3	0.3	Pass				
11	280.4	30.5	0.5	Pass				
12	310.9	30.5	0.5	Pass				
13	341.4	30.6	0.6	Pass				

NOTE: Normalized error must be no more than +/- 3 degrees at each input value.

final

Sensor Orientation	Ideal Azimuth	DAS Degrees	Error Degrees	Tolerance ± 5 Degrees	PASS/FAIL
To Landmark 1	276.0	276.5	0.5	5.0	PASS
From Landmark 1	96.0	95.6	-0.4	5.0	PASS
To Landmark 2	154.0	153.9	-0.1	5.0	PASS
From Landmark 2	334.0	336.2	2.2	5.0	PASS

Initial Torque/Threshhold

Direction of Rotation	Starting Torque (g-cm)	Required Accuracy (g-cm)	Pass/Fail
CW	7.0	8.0	Pass
CCW	7.0	8.0	Pass

Final Torque/Threshhold

Direction of Rotation	Starting Torque (g-cm)	Required Accuracy (g-cm)	Pass/Fail
CW	5.0	8.0	Pass
CCW	5.0	8.0	Pass

MISCELLANEOUS

CONDITION OF VANE: good

CONDITION OF SENSOR CABLE/CONNECTIONS: good

Method used to determine sensor alignment (solar azimuth, magnetic compass, etc.):

If solar azimuth method was used, enter site longitude and latitude: Longitude: Latitude:

Enter site magnetic declination: 6.5 degrees

Comments: Replaced Bearings

50m WIND DIRECTION

Wind Direction Calibration

Network : East Side Resources	Site : Basin Electric	Date : 12/4/2007
Location: Gettysburg, SD	Initial/Final Initial	Tech: TR/BCJ

Sensor /Instrument	Sensor Alignment	
	Landmark 1:	Landmark 2:
Make: Climatronics Model: 100076 Serial No: 1545	Description: Radome near due west	Description: Radio Tower SE
Vane SN: 1049 WD Level: 50m Range: 0 to 360 deg	Direction (TRUE): 276	Direction (TRUE): 154

Sensor Performance

Sensor Orientation	Ideal Azimuth	DAS Degrees	Error Degrees	Tolerance ± 5 Degrees	PASS/FAIL
To Landmark 1	276.0	273.7	-2.3	5.0	PASS
From Landmark 1	96.0	91.7	-4.3	5.0	PASS
To Landmark 2	154.0	152.6	-1.4	5.0	PASS
From Landmark 2	334.0	335.7	1.7	5.0	PASS

Sensor Linearity Check

INITIAL					FINAL			
Input Value (Position)	Das Output (Degrees)	Error Absolute (Degrees)	Error Normalized (Degrees)	(Pass/Fail)	Das Output (Degrees)	Error Absolute (Degrees)	Error Normalized (Degrees)	(Pass/Fail)
1	157.6	na	na	na	360.6	na	na	na
2	188.0	30.4	0.4	Pass	29.1	28.5	-1.5	Pass
3	218.3	30.3	0.3	Pass	59.1	30.0	0.0	Pass
4	248.5	30.2	0.2	Pass	89.3	30.2	0.2	Pass
5	279.1	30.6	0.6	Pass	119.4	30.1	0.1	Pass
6	310.5	31.4	1.4	Pass	149.7	30.4	0.3	Pass
7	341.1	30.6	0.6	Pass	179.7	30.0	0.0	Pass
8	7.9	26.8	-3.2	Fail	209.8	30.1	0.1	Pass
9	38.1	30.2	0.2	Pass	240.3	30.5	0.5	Pass
10	68.3	30.2	0.2	Pass	270.3	30.0	-0.1	Pass
11	98.1	29.8	-0.3	Pass	300.6	30.3	0.3	Pass
12	128.2	30.2	0.1	Pass	330.6	30.1	0.1	Pass
13	158.4	30.2	0.2	Pass	360.0	29.4	-0.6	Pass

NOTE: Normalized error must be no more than +/- 3 degrees at each input value.

Sensor Orientation	Ideal Azimuth	DAS Degrees	Error Degrees	Tolerance ± 5 Degrees	PASS/FAIL
To Landmark 1	276.0	274.2	-1.8	5.0	PASS
From Landmark 1	96.0	93.5	-2.5	5.0	PASS
To Landmark 2	154.0	152.3	-1.7	5.0	PASS
From Landmark 2	334.0	333.5	-0.5	5.0	PASS

Starting Torque/Threshhold

Direction of Rotation	Starting Torque (g-cm)	Required Accuracy (g-cm)	Pass/Fail
CW	4.0	8.0	Pass
CCW	4.0	8.0	Pass

MISCELLANEOUS

CONDITION OF VANE: good

CONDITION OF SENSOR CABLE/CONNECTIONS: good

Method used to determine sensor alignment (solar azimuth, magnetic compass, etc.):

If solar azimuth method was used, enter site longitude and latitude: Longitude: Latitude:

Enter site magnetic declination: 6.5 degrees

Comments: Changed pot on 50m wind direction and performed final linearity check

Wind Direction Calibration

Network : East Side Resources	Site : Basin Electric	Date : 12/4/2007
Location: Gettysburg, SD	Initial/Final Initial	Tech: TR/BCJ

Sensor /Instrument	Sensor Alignment	
	Landmark 1:	Landmark 2:
Make: Climatronics Model: 100076 Serial No: 179	Description: Radome near due west	Description: Radio Tower SE
Vane SN: 361 WD Level: 100m Range: 0 to 360 deg	Direction (TRUE): 276	Direction (TRUE): 154

Sensor Performance

Sensor Orientation	Ideal Azimuth	DAS Degrees	Error Degrees	Tolerance ± 5 Degrees	PASS/FAIL
To Landmark 1	276.0	274.2	-1.8	5.0	PASS
From Landmark 1	96.0	93.6	-2.4	5.0	PASS
To Landmark 2	154.0	153.7	-0.3	5.0	PASS
From Landmark 2	334.0	334.6	0.6	5.0	PASS

Sensor Linearity Check

Clockwise					Counter-Clockwise			
Input Value (Degrees)	Das Output (Degrees)	Error Absolute (Degrees)	Error Normalized (Degrees)	(Pass/Fail)	Das Output (Degrees)	Error Absolute (Degrees)	Error Normalized (Degrees)	(Pass/Fail)
1	28.4	na	na	na				
2	58.7	30.3	0.3	Pass				
3	89.7	31.0	1.0	Pass				
4	119.7	30.0	0.0	Pass				
5	150.2	30.5	0.5	Pass				
6	180.3	30.1	0.1	Pass				
7	210.0	29.7	-0.3	Pass				
8	240.3	30.3	0.3	Pass				
9	270.4	30.1	0.1	Pass				
10	300.2	29.8	-0.2	Pass				
11	330.9	30.7	0.7	Pass				
12	0.1	29.2	-0.8	Pass				
13	28.8	28.7	-1.3	Pass				

NOTE: Normalized error must be no more than +/- 3 degrees at each input value.

Sensor Orientation	Ideal Azimuth	DAS Degrees	Error Degrees	Tolerance ± 5 Degrees	PASS/FAIL
To Landmark 1	276.0	276.7	0.7	5.0	PASS
From Landmark 1	96.0	96.3	0.3	5.0	PASS
To Landmark 2	154.0	155.4	1.4	5.0	PASS
From Landmark 2	334.0	337.3	3.3	5.0	PASS

Starting Torque/Threshhold

Direction of Rotation	Starting Torque (g-cm)	Required Accuracy (g-cm)	Pass/Fail
CW	4.0	8.0	Pass
CCW	4.0	8.0	Pass

MISCELLANEOUS

CONDITION OF VANE: good

CONDITION OF SENSOR CABLE/CONNECTIONS: good

Method used to determine sensor alignment (solar azimuth, magnetic compass, etc.):

If solar azimuth method was used, enter site longitude and latitude: Longitude: Latitude:

Enter site magnetic declination: 6.5 degrees

Comments:

ENSR

Temperature/Delta Temperature Calibration Form

Network : East Side Resources Site : Basin Electric Date : 12/4/2007

Location: Gettysburg, SD Initial/Final Initial Tech: TR/BCJ

Sensor /Instrument							
Make:	Climatronics	Make:	Climatronics	Make:	Climatronics	Make:	Climatronics
Model:	100093	Model:	100093	Model:	100093	Model:	100093
Serial No:	8022	Serial No:	8027	Serial No:	8030	Serial No:	8036
Cal. Date:	NA	Cal. Date:	NA	Cal. Date:	NA	Cal. Date:	NA
Temp Level:	2m	Temp Level:	10m	Temp Level:	50m	Temp Level:	100m

Temperature Standard Information		Asiprators Level/Height	Condition
Make:	Techne	2m:	ok
Model:	4400	10m:	ok
Serial No:	304004	55m	ok
Cal. Date:	1/10/07	100m	ok

Temp Range: -30C to 50C

Delta Temp Range: -10C to 10C

INITIAL SYSTEM CHECKS

LEVEL	BATH STD TEMP °F	BATH STD TEMP °C	OBSERVED TEMP °C	ERROR (± 0.5 °C)	PASS FAIL
2M	32.0	0.02	0.06	0.04	PASS
10M	32.0	0.02	0.08	0.06	PASS
55M	32.0	0.02	0.06	0.04	PASS
100M	32.0	0.02	0.04	0.02	PASS

OBSERVED Δ TEMP °C	Δ TEMP LEVEL	PASS FAIL
0.03	10-2 Δ T	PASS
-0.03	50-10 Δ T	PASS
-0.01	100-50 Δ T	PASS

LEVEL	BATH STD TEMP °F	BATH STD TEMP °C	OBSERVED TEMP °C	ERROR (± 0.5 °C)	PASS FAIL
2M	77.7	25.41	25.23	-0.18	PASS
10M	77.7	25.41	25.23	-0.18	PASS
55M	77.7	25.41	25.25	-0.16	PASS
100M	77.7	25.41	25.22	-0.19	PASS

OBSERVED Δ TEMP °C	Δ TEMP LEVEL	PASS FAIL
0	10-2 Δ T	PASS
0.03	50-10 Δ T	PASS
-0.04	100-50 Δ T	PASS

LEVEL	BATH STD TEMP °F	BATH STD TEMP °C	OBSERVED TEMP °C	ERROR (± 0.5 °C)	PASS FAIL
2M	111.2	44.02	44.01	-0.01	PASS
10M	111.2	44.02	44.00	-0.02	PASS
55M	111.2	44.02	44.05	0.03	PASS
100M	111.2	44.02	43.98	-0.04	PASS

OBSERVED Δ TEMP °C	Δ TEMP LEVEL	PASS FAIL
-0.01	10-2 Δ T	PASS
0.05	50-10 Δ T	PASS
-0.07	100-50 Δ T	PASS

Comments:

ENSR

Relative Humidity Calibration

Network : East Side Resources Site : Basin Electric Date : 12/4/2007

Location: Gettysburg, SD Initial/Final Initial Tech: TR/BCJ

Sensor /Instrument		Relative Humidity Standard	
Make:	Vaisala	Make:	Rotronic
Model:	HMP45AC	Model:	Hygropalm 1
Serial No:	A1320004	Serial No:	42489026-134923
Cal. Date:	NA	Cal. Date:	7/19/2007

Initial System Checks

Run	Reference RH	DAS RH	Error %	Required Accuracy (± 10%)	PASS/FAIL
1	86.4	83.4	-3.5	8.64	PASS
2	86.3	83.6	-3.1	8.63	PASS
3	86.3	83.74	-3.0	8.63	PASS
AVG	86.3	83.6	-3.2	8.63	PASS

Final System Checks

Run	Reference RH	DAS RH	Error %	Required Accuracy (± 10%)	PASS/FAIL
1					
2					
3					
AVG					

Comments: no final checks

ENSR

Barometric Pressure Calibration

Network : East Side Resources Site : Basin Electric Date : 12/4/2007

Location: Gettysburg, SD Initial/Final Initial Tech: TR/BCJ

Sensor /Instrument	Barometric Pressure Standard
Make: Setra	Make: AIR
Model: 278	Model: HB-2A
Serial No: 2500480	Serial No: 3C2430
Cal. Date: NA	Cal. Date: 1/17/2007

Initial System Checks

Run	Reference Pressure (mm Hg)	DAS Pressure (mm Hg)	Error	PASS/FAIL
1	700.9	699.7	1.20	PASS
2	700.9	699.7	1.17	PASS
3	701	699.7	1.27	PASS
AVG	700.9	699.7	1.21	PASS

Final System Checks

Run	Reference Pressure (mb)	DAS Pressure (mb)	Error
1			
2			
3			
AVG			

Comments: No final cal needed

ENSR

Tipping Bucket Type Rain Gauge

Network : East Side Resources Site : Basin Electric Date : 12/4/2007

Location: Gettysburg, SD Initial/Final: Initial Tech: TR/BCJ

Sensor /Instrument		Precip Audit Standards	
Make:	MET ONE	Make:	Novalynx
Model:	385	Model:	264-2545
Serial No:	F7976	Serial No:	948
Cal. Date:	NA	Cal. Date:	NA

Initial System Checks

(Cup Orientation)	Volume per Cup (m/L) per tip	
	West Facing	East Facing
1st Test	na	na
2nd Test	na	na
3rd Test	na	na
Average		

System Checks

(Cup Orientation)	Volume per Cup (m/L) per tip	
	West Facing	East Facing
1st Test	na	na
2nd Test	na	na
3rd Test	na	na
Average		

Manufacturer Set Point ==> 18 mL=1 tip = 0.1 mm/tip= 0.010 in. of rain

Volume Check : 800 m/L = 4.44 mm = 0.44 in. of rain

DAS Value : 0.43 in of rain

Error : -1.8% (+/- 10% of designated value)

Heater Operational? : Yes

Comments:

Bios International Calibration Certificate

Report No. 65434
Product DC-HC-1
Serial No. 1837
Cal. Date 23 January 2008
Annual Maint. Recommended

ENSR Corporation
1601 Prospect Parkway
Fort Collins CO 80525
Acct. No. ENSFOR-2
PO No.

NVLAP®
NVLAP Lab Code 200661

As Received Test Data

Calibration Standards Used
All units tested in accordance with Bios International Corporation test number PR05-2 Rev B or PR01-10 Rev D using high-purity bottled nitrogen.

Asset Number	Description	Cal Date	Due Date
ML-500-24 110409	ML-500 Medium Flow Cell	5/4/2007	5/4/2008
ML-500-44 102677	ML-500 High Flow Cell	10/22/2007	10/22/2008

Technician Zenaida Ortiz **Lab. Pressure** 756.19 mmHg
Lab. Temperature 22.2 °C

Instrument Reading (ml/min)	Lab Standard Reading (ml/min)	Lab Standard Unit No.	Deviation	Allowable Deviation	Condition Shipped
501.9	500.14	110409	0.35 %	1.00%	in tolerance
4998	5007.05	102677	-0.18%	1.00%	in tolerance
49140	49003.5	102677	0.28 %	1.50%	in tolerance

The allowable deviation consists of the RSS of the expanded uncertainties of the working standards (0.25%), experimental errors (0.25%), and the error of the device under test (DUT), which is the remainder of the allowable deviation.

As Shipped Test Data

Calibration Standards Used
All units tested in accordance with Bios International Corporation test number PR05-2 Rev B or PR01-10 Rev D using high-purity bottled nitrogen.

Asset Number	Description	Cal Date	Due Date
ML-500-24 110409	ML-500 Medium Flow Cell	5/4/2007	5/4/2008
ML-500-44 102677	ML-500 High Flow Cell	10/22/2007	10/22/2008

Technician Zenaida Ortiz **Lab. Pressure** 757.51 mmHg
Lab. Temperature 22.6 °C

Instrument Reading (ml/min)	Lab Standard Reading (ml/min)	Lab Standard Unit No.	Deviation	Allowable Deviation	Condition Shipped
501.9	500.275	110409	0.32 %	1.00%	in tolerance
5004	5009.05	102677	-0.10%	1.00%	in tolerance
49320	49032	102677	0.59 %	1.50%	in tolerance

The allowable deviation consists of the RSS of the expanded uncertainties of the working standards (0.25%), experimental errors (0.25%), and the error of the device under test (DUT), which is the remainder of the allowable deviation.

Each DryCal flow calibrator is dynamically tested by comparing it to a laboratory standard primary piston prover of much higher accuracy (±0.25% or better) but of similar operating principles. Flow generators of ±0.03% stability are used for the comparison. Use of provers of similar construction to the device under test assures the validity of the flow generator as a transfer standard. The primary laboratory standards are qualified by direct measurement of their dimensions (diameter, length of measured path, time base) against NIST traceable gauges and instruments (NIST numbers available upon request). A rigorous analysis of their accuracy in accordance with the International Guide to Uncertainty in Measurements has been performed, assuring their traceable accuracy. Test procedures ensure temperature matching of the laboratory standards and the device under test.

Bios International Corporation
10 Park Place, Butler, NJ 07405 USA
www.biosint.com

Printed 23 January 2008

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All calibrations performed in accordance with ISO 17025.

Bios International Calibration Certificate

Report No. 65434
Product DC-HC-1
Serial No. 1837
Cal. Date 23 January 2008
Annual Maint. Recommended

ENSR Corporation
1601 Prospect Parkway
Fort Collins CO 80525
Acct. No. ENSFOR-2
PO No.

NVLAP®
NVLAP Lab Code 200661

Harvey Padden, President

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All calibrations performed in accordance with ISO 17025.

Bios International Calibration Certificate

Cert No. 65457
Product DC1-B
Serial No. 808

ENSR Corporation
1601 Prospect Parkway
Fort Collins CO 80525

NVLAP Lab Code 200661

Cal. Date 23 January 2008
Annual Maint. Recommended

Acct. No. ENSFOR-2
PO No.

As Received Test Data

Calibration Standards Used
Frequency tested in accordance with Bios International Corporation test number PR02-5 Rev. B.
Expanded uncertainty: frequency ±12 ppm at two times coverage.

Asset Number	Description	Cal Date	Due Date	NIST
UCT512079	Frequency Counter	4/12/2007	4/12/2008	1000207427

Technician Dave Stratheam
Indicated Frequency 100066.73 **Minimum Allowable Frequency** 100022.8 μ **Maximum Allowable Frequency** 100122.9 μ

As Shipped Test Data

Calibration Standards Used
Frequency tested in accordance with Bios International Corporation test number PR02-5 Rev. B.
Expanded uncertainty: frequency ±12 ppm at two times coverage.

Asset Number	Description	Cal Date	Due Date	NIST
UCT512079	Frequency Counter	4/12/2007	4/12/2008	1000207427

Technician Dave Stratheam
Indicated Frequency 100066.73 **Minimum Allowable Frequency** 100022.8 μ **Maximum Allowable Frequency** 100122.9 μ

DryCal DC-1 Base Timing Device Certification
The DryCal DC-1 is a primary flow standard. As such, no adjustment is necessary, as accuracy is dependant upon the dimensions of the flow measuring cell and the accuracy of the base's internal timing crystal. Bios International certifies that the timing crystal of DryCal DC-1 base, SN. 808 , has been calibrated against NIST traceable gauges and instruments that are calibrated annually by approved testing laboratories, and has met factory specifications for accuracy.

Harry F. Padden

Bios International Corporation
10 Park Place, Butler, NJ 07405 USA
www.biosint.com

Printed 23 January 2008

CAL02-1 Rev B This report shall not be reproduced except in full, without the written approval of Bios International Corporation. Results only relate to the items calibrated.
All calibrations performed in accordance with ISO 17025.

Bios International Calibration Certificate

Report No. 65425
Product DC-MC-1
Serial No. 809
Cal. Date 23 January 2008
Annual Maint. Recommended

ENSR Corporation
1601 Prospect Parkway
Fort Collins CO 80525
Acct. No. ENSFOR-2
PO No.

NVLAP Lab Code 200661

As Received Test Data

Calibration Standards Used

All units tested in accordance with Bios International Corporation test number PR05-2 Rev B or PR01-10 Rev D using high-purity bottled nitrogen.

Asset Number	Description	Cal Date	Due Date
ML-500-44 102677	ML-500 High Flow Cell	10/22/2007	10/22/2008
ML-500-10 102174	ML-500 Low Flow Cell	5/24/2007	5/24/2008

Technician Zenaida Ortiz **Lab. Pressure** 756.19 mmHg
Lab. Temperature 22.2 °C

Instrument Reading (ml/min)	Lab Standard Reading (ml/min)	Lab Standard Unit No.	Deviation	Allowable Deviation	Condition Shipped
100.1	100.18	102174	-0.08%	1.00%	in tolerance
2008	2004.45	102677	0.18 %	1.00%	in tolerance
9551	9503.15	102677	0.50 %	2.00%	in tolerance

The allowable deviation consists of the RSS of the expanded uncertainties of the working standards (0.25%), experimental errors (0.25%), and the error of the device under test (DUT), which is the remainder of the allowable deviation.

As Shipped Test Data

Calibration Standards Used

All units tested in accordance with Bios International Corporation test number PR05-2 Rev B or PR01-10 Rev D using high-purity bottled nitrogen.

Asset Number	Description	Cal Date	Due Date
ML-500-10 102174	ML-500 Low Flow Cell	5/24/2007	5/24/2008
ML-500-44 102677	ML-500 High Flow Cell	10/22/2007	10/22/2008

Technician Zenaida Ortiz **Lab. Pressure** 757.51 mmHg
Lab. Temperature 22.6 °C

Instrument Reading (ml/min)	Lab Standard Reading (ml/min)	Lab Standard Unit No.	Deviation	Allowable Deviation	Condition Shipped
100	100.465	102174	-0.46%	1.00%	in tolerance
2009	2004.95	102677	0.20 %	1.00%	in tolerance
9520	9504.1	102677	0.17 %	2.00%	in tolerance

The allowable deviation consists of the RSS of the expanded uncertainties of the working standards (0.25%), experimental errors (0.25%), and the error of the device under test (DUT), which is the remainder of the allowable deviation.

Each DryCal flow calibrator is dynamically tested by comparing it to a laboratory standard primary piston prover of much higher accuracy (±0.25% or better) but of similar operating principles. Flow generators of ±0.03% stability are used for the comparison. Use of provers of similar construction to the device under test assures the validity of the flow generator as a transfer standard. The primary laboratory standards are qualified by direct measurement of their dimensions (diameter, length of measured path, time base) against NIST traceable gauges and instruments (NIST numbers available upon request). A rigorous analysis of their accuracy in accordance with the International Guide to Uncertainty in Measurements has been performed, assuring their traceable accuracy. Test procedures ensure temperature matching of the laboratory standards and the device under test.

Bios International Corporation
10 Park Place, Butler, NJ 07405 USA
www.biosint.com

Printed 23 January 2008

CAL02-15 Rev A This report shall not be reproduced except in full, without the written approval of Bios International Corporation. Results only relate to the items calibrated.
All calibrations performed in accordance with ISO 17025.

Bios International Calibration Certificate

Report No. 65425
Product DC-MC-1
Serial No. 809
Cal. Date 23 January 2008
Annual Maint. Recommended

ENSR Corporation
1601 Prospect Parkway
Fort Collins CO 80525
Acct. No. ENSFOR-2
PO No.

NVLAP
NVLAP Lab Code 200661

Harvey Padden, President

CAL02-15 Rev A This report shall not be reproduced except in full, without the written approval of Bios International Corporation. Results only relate to the items calibrated.
All calibrations performed in accordance with ISO 17025.

OZONE TRANSFER STANDARD CALIBRATION
Calibration Date: 3/15/2007

Transfer Standard:		Mfg & Model:	Teco 49 TS	Primary:	Mfg & Model:	49CPS
Freq A	89465	SN:	3379-246		SN:	65002-345
Freq B	92486	Span:	557		Span:	na
Flow A	1.0	Offset:	52		Offset:	na
Flow B	1.0				Cert Date:	3/2/2007

	3/12/2007		3/13/2007		3/14/2007		11/7/2006		11/17/2006		9/12/2006	
	Desig.	Obs.	Desig.	Obs.	Desig.	Obs.	Desig.	Obs.	Desig.	Obs.	Desig.	Obs.
TP1	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.451	0.450	0.451	0.450	0.451
TP2	0.350	0.350	0.350	0.351	0.350	0.350	0.350	0.352	0.350	0.351	0.350	0.351
TP3	0.250	0.250	0.250	0.251	0.250	0.247	0.250	0.252	0.250	0.251	0.250	0.251
TP4	0.150	0.152	0.150	0.152	0.150	0.148	0.150	0.149	0.150	0.150	0.150	0.150
TP5	0.080	0.082	0.080	0.082	0.080	0.078	0.080	0.079	0.080	0.081	0.080	0.081
TP6	0.000	0.001	0.000	-0.001	0.000	0.002	0.000	-0.001	0.000	0.001	0.000	0.001
Slope		0.9957674		0.9999535		0.99900000		1.00693023		1.00044186		1.000442
Intercept		0.0017363		0.0008433		-0.00062		-0.0011451		0.00073907		0.000739

AVG. SLOPE	1.0004225	(.95to1.05)	STD.DEV	0.36%	(<3.7%OK)	1/M =	0.9995777
AVG. INTERCEPT	0.00038		STD.DEV	0.1%	(<1.5%OK)		

O3 Std ppm = 0.9996 X [O3 indicated - 0.00038]

11/8/06 solenoid a little sticky

FLUKE ® Everett Service Center
1420 75th St. SW
Everett, Washington 98203
USA

NQA ISO 9001: 2000 Certified

Calibration Certificate

Description:	TRUE RMS MULTIMETER	**Certificate Number:**	**2074974-90850057:1172048000**
Manufacturer:	FLUKE	**Date of Calibration:**	21 February 2007
Model:	87 V	**Date of Certificate:**	21 February 2007
Serial Number:	90850057	**Date Due:**	21 February 2008
Customer Name:	ENSR CONSULTING ENGINEERING	**Procedure Name:**	MFG MANUAL
City, State:	FORT COLLINS, CO	**Procedure Revision:**	MAY-04
Customer Item ID:	90850057	**Data Type:**	FOUND-LEFT
PO Number:	0084-09963	**Temperature:**	23 ± 3.0 °Celsius
RMA Number:	3655524	**Relative Humidity:**	25% ≤ RH ≤ 60%
		Test Result:	PASS

The Fluke Corporation, NQA ISO 9001:2000 ISO Certification No. 10100/2, certifies that the instrument identified above was calibrated in accordance with applicable Fluke calibration procedures. Its calibration processes are ISO-9001 controlled and are designed to certify that the instrument was within its published specifications at the time of calibration.

The measurement standards and instruments used during the calibration of this instrument are traceable to the United States National Institute of Standards and Technology (NIST), other reputable National Institutes, natural physical constants, consensus standards, or by ratio type measurements.

This certificate applies to only the item identified and shall not be reproduced other than in full, without the specific written approval by Fluke Corporation. The user is obliged to have the in object recalibrated at appropriate intervals. Calibration Certificates without signature are not valid.

The Data type that could be found in this certificate is interpreted as follows:

- As Found — The unit needed adjustment and/or repair.
- As Left — The unit was adjusted and/or repaired.
- As Found/ As Left — The unit was calibrated without any adjustment and/or repair performed.

Comments:

Long Le
Metrology Technician

VAISALA Certificate of Calibration

Report #: 071607-B1450012-RH RMA #: 95-61703 **Calibration Date: Jul-16-2007**

Model #: HM34C **Serial #: B1450012**

Instrument Type: Humidity Transmitter
Instrument Range: 0 to 100%, RH
Instrument Range: -20 to +60 °C, T

Calibration Procedure: 11603100
Recommended Calibration Due Date: Jul-16-2008

Customer: ENSR

City, State: FORT COLLINS, CO

This unit was calibrated by adjusting its reading at 0%* against a dry-air line and at 75% against reference humidity and temperature instrument, Vaisala model HMP233. Additional instrument verification checkpoints were made against HMP233 reference at 11%RH and 33%RH. Calibration and instrument verification sequences utilize a dry-air line and a set of controlled aqueous salt solutions Vaisala model HMK13B. Laboratory ambient conditions are humidity and temperature controlled. The calibration uncertainty is presented at 95% confidence level, k=2. The standard uncertainty of the measurement has been determined in accordance with U.S. Guide to the Expression of Uncertainty in Measurement. *Note: the 0% RH point is not ISO17025 Accredited.

Calibration Data (As Found)				
Out of Tolerance: YES				
Temperature Calibration, °C				
Reference	Unit Under Test	Error	± Tolerance, °C	± Uncertainty, °C
21.31	21.30	-0.01	0.30	0.07
Humidity Calibration, %RH				
Reference	Unit Under Test	Error	± Tolerance, %	± Uncertainty %
0.03	1.30	1.27	2.00	0.50 *
11.14	12.00	0.86	2.00	0.92
33.42	34.70	1.28	2.00	1.01
74.65	76.90	**2.25**	2.00	1.02
Calibration Data (As Left)				
Temperature Calibration, °C				
Reference	Unit Under Test	Error	± Tolerance, °C	± Uncertainty, °C
21.36	21.30	-0.06	0.30	0.07
Humidity Calibration, %RH				
Reference	Unit Under Test	Error	± Tolerance, %	± Uncertainty %
0.03	0.60	0.57	2.00	0.50 *
11.18	11.00	-0.18	2.00	0.92
33.29	33.00	-0.29	2.00	1.01
74.25	74.70	0.45	2.00	1.02

Problem Noted: ***The Unit Was Out Of Tolerance "As Found"***
Action Taken: **The Unit Was Calibrated**

The results of this calibration are related only to the items being calibrated at the time of calibration, and, are traceable to the National Institute of Standards and Technology through NIST Test Report Numbers TN 274176 and TN 274579-07. Vaisala's calibration system has been established to meet the requirements of ANSI/NCSL Z540-1-1994. This certificate can not be reproduced, except in full, without the expressed written consent of Vaisala. The certificate was established to comply with the requirements of ISO/IEC17025. Vaisala is ISO 9001:2000 certified.

Calibration Equipment Used: Workstation 5B			
Model Number	Serial Number	Calibration Date	Due Date
Power Supply	9800300	Nov. 27, 2006	Nov. 27, 2008
Fluke 45	6859005	Aug. 4, 2006	Aug. 4, 2007
HMK13B	500005	Feb. 26, 2007	Aug. 26, 2007
HMP233	V4210031	Jun. 15, 2007	Sep. 15, 2007
HMT333	B0920008	Jun. 15, 2007	Sep. 15, 2007
HMI41/HMP45	S0720005	Jun. 5, 2007	Sep. 5, 2007

Ambient Conditions	
Temperature:	21.80 °C
Humidity:	49.10 %RH

Approved By

Technical Operator
Jennifer Clay

Vaisala Inc., Boston Office
10-D Gill Street, Woburn, MA 01801, USA
Telephone 781 933 4500 • Fax 781 933 8029
www.vaisala.com

ENSR | AECOM

BAROMETRIC PRESSURE VERIFICATION

Date: 1/17/2007 **Barometric Pressure Manfacturer:** AIR **SN:** 3C2430
Barometric Pressure Model: HB-2A

Reference Barometer: Nova Mercurial Barometer **Model:** 469 **SN:** N/A

Reference Barometer Manufacturer: Princo Instruments

Pressure Verification Results (compared to Ambient conditions)

Audit/Calibration Point	Reference Pressure	U.U.T. Pressure Reading (mmHg)	Error[1]	Accuracy
1	633.9	634.8	0.9	± 2.3 mmHg
2	633.3	634.4	1.1	± 2.3 mmHg
3	633.6	634.1	0.5	± 2.3 mmHg
4	633.1	633.9	0.8	± 2.3 mmHg
5	632.0	632.7	0.7	± 2.3 mmHg
6	631.8	632.8	1.0	± 2.3 mmHg
7	631.7	632.8	1.1	± 2.3 mmHg
8	632.0	632.9	0.9	± 2.3 mmHg
9	631.7	632.7	1.0	± 2.3 mmHg
10	632.1	633.1	1.0	± 2.3 mmHg
Average	632.5	633.4	0.9	± 2.3 mmHg

[1] Error;U.U.T. pressure compared to Reference pressure

Remarks
Reference Pressure corrected for temperature and gravity using the following multiplier:

(Corrected Pressure) = 0.995959 x (Observed Reference Barometer Reading)

Signature

TISCH ENVIROMENTAL, INC.
145 SOUTH MIAMI AVE.
VILLAGE OF CLEVES, OH 45002
513.467.9000
877.263.7610 TOLL FREE
513.467.9009 FAX
WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5028A

Date - Apr 25, 2007 Rootsmeter S/N 9833620 Ta (K) - 295
Operator Tisch Orifice I.D. - 1170 Pa (mm) - 758.19

PLATE OR VDC #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.2530	4.2	1.50
2	NA	NA	1.00	0.9650	7.1	2.50
3	NA	NA	1.00	0.8820	8.4	3.00
4	NA	NA	1.00	0.8140	9.8	3.50
5	NA	NA	1.00	0.6140	17.1	6.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0021	0.7998	1.2295		0.9944	0.7936	0.7640
0.9983	1.0345	1.5873		0.9906	1.0265	0.9863
0.9965	1.1299	1.7388		0.9889	1.1212	1.0804
0.9947	1.2220	1.8781		0.9870	1.2126	1.1670
0.9850	1.6043	2.4590		0.9774	1.5919	1.5279

Qstd slope (m) = 1.52884
intercept (b) = 0.00793
coefficient (r) = 0.99997

Qa slope (m) = 0.95733
intercept (b) = 0.00492
coefficient (r) = 0.99997

y axis = SQRT[H2O(Pa/760)(298/Ta)]

y axis = SQRT[H2O(Ta/Pa)]

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)
Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa]
Qa = Va/Time

For subsequent flow rate calculations:

Qstd = 1/m{[SQRT(H2O(Pa/760)(298/Ta))]- b}
Qa = 1/m{[SQRT H2O(Ta/Pa)]- b}

ENSR | AECOM

Q Actual Calibration Data

ORIFICE CALIBRATION CERTIFICATE

ORIFICE SN: W95 **Pressure(Pa)** 756.14 **mmhg**

Calibration Date: 5/25/2007 **Temperature (Ta)** 297.8 **K**

Roots Meter SN. 8195110 Certified by: K. Kobb

Run Point	TIME Min.	VOLUME	Inlet DelP ("H2O")	Actual Volume (M^3)	x-axis Qa (M^3)	Orifice Del H (H2O)	y-axis DelHc [DelH(Ta/Pa)]1/2	Qa ACFM
1	3.658	3.11	27.00	2.902	0.793	1.4	0.743	28.02
2	2.915	3.11	23.00	2.933	1.006	2.4	0.972	35.52
3	2.530	3.11	18.00	2.972	1.175	3.3	1.140	41.47
4	2.188	3.11	13.00	3.010	1.376	4.7	1.361	48.57
5	1.999	3.11	9.00	3.040	1.521	5.8	1.511	53.70

Qa/M3 **Slope M=** 1.05612 **Intercpt.B=** -0.09464 **Corr.=** 0.999920

For subsequent flow rate calculations: Qa = [{DelH2O (Ta/Pa)}1/2 - Bo] / Mo

R.M. Young Company
2801 Aero Park Drive
Traverse City, Michigan 49686 USA

YOUNG

Certificate of Calibration and Testing

Test Unit:			
Model:	18801	Serial Number:	20101
Description:	Anemometer Drive - 10 to 10,000 RPM - Comprised of Models 18820 Control Unit & 18830 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	Output Frequency (1) Hz	Calculated Rpm (2)	Indicated Rpm (3)
600	320	600	600
1200	640	1200	1200
2400	1280	2400	2400
4200	2240	4200	4200
6000	3200	6000	6000
8100	4320	8100	8100
9900	5280	9900	9900
☑ Clockwise and Counterclockwise rotation verified			

(1) Measured at the optical encoder output
(2) Frequency output produces 32 pulses per revolution of the motor shaft
(3) Indicated on the Control Unit LCD display

*Indicates out of tolerance

☑ No Calibration Adjustments Required ☐ As Found ☐ As Left

Traceable frequency meter used in calibration DP4863

Date of inspection 9 January 2007

Tested By EK

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

R.M. Young Company
2801 Aero Park Drive
Traverse City, Michigan 49686 USA

Certificate of Calibration and Testing

Test Unit:
Model: 18810 Serial Number: 20101
Description: Anemometer Drive - 10 to 1,000 RPM
- Comprised of Models 18820 Control Unit & 18831 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	Output Frequency (1) Hz	Calculated Rpm (2)	Indicated Rpm (3)
60	320	60	600
120	640	120	1200
240	1280	240	2400
420	2240	420	4200
600	3200	600	6000
810	4320	810	8100
990	5280	990	9900
☑ Clockwise and Counterclockwise rotation verified			

(1) Measured at the optical encoder output
(2) Frequency output produces 320 pulses per revolution of the motor shaft
(3) Indicated on the Control Unit LCD display - Note: Divide displayed rpm by 10 to calculate actual motor rpm

*Indicates out of tolerance

☑ No Calibration Adjustments Required ☐ As Found ☐ As Left

Traceable frequency meter used in calibration DP4863

Date of inspection 9 January 2007

Tested By EP

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

ENSR INTERNATIONAL

PROCESSING FOR UNEXPOSED FILTERS

Quality Assurance Data

PROJECT:	Basin				DATE:	6/29/2007	
FILTER BATCH:	2	PM_{10} ☒☒☒	TSP	DICHOT ☐	2.5 ☐		
		Please check box by hand, or highlight/shade filter type!					
AMOUNT:	49	FILTER NO:	000046	TO:	000094	LOT:	1881350

PRECONDITIONING

CHAMBER	DATE	TIME	RH% +/-5%	TEMP +/- 5.4°F	COMMENTS
START DAY:	6/27/2007	1200	36.8	74.1	
STOP DAY:	6/29/2007	1400	33.7	74.5	

RH range 20-45%, Temperature range 59°F - 77°F

GRAVIMETRIC ANALYSIS

DATE:	Start-Stop:	1400	RH%	33.7	TEMP (°F):	74.5
BALANCE SN:	SA2901048					

BALANCE ZERO*	DRIFT +	ZERO	-	REZERO YES	NO	PRIOR TO FILTER NUMBER
1				Yes		000046
2				Yes		000056
3				Yes		000066
4				Yes		000076
5				Yes		000086
6						
7						
8						
9						

**Check balance zero after 10 filters*

QUALITY ASSURANCE AUDIT

DATE:	6/29/2007	TIME:	1500	RH (%):	33.9	TEMP (°F): 75.1
BALANCE SN:	SA2901048		INITIAL ZERO: ok			

FILTER NUMBER:	INITIAL WEIGHT (GRAMS)	AUDIT WEIGHT (GRAMS)	ERROR* (GRAMS)	(<0.0028g)
000047	4.5825	4.5823	0.0002	OK
000059	4.5335	4.5332	0.0003	OK
000068	4.4937	4.4935	0.0002	OK
000081	4.5614	4.5613	0.0001	OK
000090	4.5405	4.5401	0.0004	OK
				OK
				OK
				OK
				OK
				OK

** If error for any audit filter is greater than 0.0028 grams, then the entire batch should be re-weighed.*

Certified for use by:	Roger Thompson	Date:	6/29/2007

ENSR INTERNATIONAL

PROCESSING FOR UNEXPOSED FILTERS

Quality Assurance Data

PROJECT:	Basin				DATE:	11/7/2007	
FILTER BATCH:	3	PM_{10} ☒☒☒	TSP	DICHOT ☐	2.5 ☐		
		Please check box by hand, or highlight/shade filter type!					
AMOUNT:	50	FILTER NO:	000095	TO:	000144	LOT:	1881350

PRECONDITIONING

CHAMBER	DATE	TIME	RH% +/-5%	TEMP +/- 5.4°F	COMMENTS
START DAY:	11/7/2007	1530	30.1	73.9	
STOP DAY:	11/20/2007	1430	31.8	73.2	

RH range 20-45%, Temperature range 59°F - 77°F

GRAVIMETRIC ANALYSIS

DATE:	Start-Stop:	1430	RH%	31.8	TEMP (°F):	73.2
BALANCE SN:	SA2901048					

BALANCE ZERO*	DRIFT +	ZERO	DRIFT -	REZERO YES	REZERO NO	PRIOR TO FILTER NUMBER
1				Yes		000095
2				Yes		000105
3				Yes		000115
4				Yes		000125
5				Yes		000135
6						
7						
8						
9						

**Check balance zero after 10 filters*

QUALITY ASSURANCE AUDIT

DATE:	11/20/2007	TIME:	1500	RH (%):	31	TEMP (°F): 72.9
BALANCE SN:	SA2901048		INITIAL ZERO: ok			

FILTER NUMBER:	INITIAL WEIGHT (GRAMS)	AUDIT WEIGHT (GRAMS)	ERROR* (GRAMS)	(<0.0028g)
000100	4.5858	4.5860	-0.0002	OK
000108	4.5452	4.5454	-0.0002	OK
000119	4.5572	4.5575	-0.0003	OK
000128	4.5845	4.5846	-0.0001	OK
000140	4.5634	4.5637	-0.0003	OK
				OK
				OK
				OK
				OK
				OK

** If error for any audit filter is greater than 0.0028 grams, then the entire batch should be re-weighed.*

Certified for use by:	Roger Thompson	Date:	11/20/2007

PROCESSING FOR EXPOSED FILTERS

Quality Assurance Data

PROJECT:	Basin				DATE:	1/7/2008
FILTER BATCH:	2 & 3	PM_{10} ☒	TSP ☐	DICHOT ☐	2.5 ☐	
		Please check box by hand, or highlight/shade filter type!				
AMOUNT:	11 FILTER NO:	86	TO:	95	LOT:	

PRECONDITIONING

CHAMBER	DATE	TIME	RH% +/-5%	TEMP +/- 5.4°F	COMMENTS
START DAY:	1/3/2008	1600	30	72.3	
STOP DAY:	1/7/2008	1200	31.2	75	

RH range 20-45%, Temperature range 59°F - 77°F

GRAVIMETRIC ANALYSIS

DATE:	Time:	Start-Stop:	1200	RH%	31.2	TEMP (°F):	75
BALANCE SN:		SA2901048					

BALANCE ZERO*	DRIFT +	DRIFT ZERO	DRIFT -	REZERO YES	REZERO NO	PRIOR TO FILTER NUMBER
1				Yes		86
2				Yes		94
3						
4						
5						
6						
7						
8						

**Check balance zero after 10 filters*

QUALITY ASSURANCE AUDIT

DATE:	1/7/2008	TIME:	1230	RH (%):	31.2	TEMP (°F):	75.4
BALANCE SN:	SA2901048		INITIAL ZERO: ok				

FILTER NUMBER:	INITIAL WEIGHT (GRAMS)	AUDIT WEIGHT (GRAMS)	ERROR* (GRAMS)	(<0.0050g)
86	4.4997	4.4995	0.0002	OK
88	4.5856	4.5854	0.0002	OK
90	4.5538	4.5537	0.0001	OK
93	4.5841	4.5839	0.0002	OK
96	4.5905	4.5902	0.0003	OK
				OK
				OK
				OK
				OK
				OK

** If error for any audit filter is greater than 0.0050 grams, then the entire batch should be re-weighed.*

Certified for use by:	Roger Thompson	Date:	1/8/2008

ENSR INTERNATIONAL

PROCESSING FOR EXPOSED FILTERS

Quality Assurance Data

PROJECT:	Basin				DATE:	1/7/2008
FILTER BATCH:	2 & 3	PM_{10} ☒	TSP ☐	DICHOT ☐	2.5 ☐	
		Please check box by hand, or highlight/shade filter type!				
AMOUNT:	11 FILTER NO:	86	TO:	95	LOT:	

PRECONDITIONING

CHAMBER	DATE	TIME	RH% +/-5%	TEMP +/- 5.4°F	COMMENTS
START DAY:	1/3/2008	1600	30	72.3	
STOP DAY:	1/7/2008	1200	31.2	75	

RH range 20-45%, Temperature range 59°F - 77°F

GRAVIMETRIC ANALYSIS

DATE:	Time:	Start-Stop:	1200	RH%	31.2	TEMP (°F): 75
BALANCE SN:		SA2901048				

BALANCE ZERO*	DRIFT +	ZERO	-	REZERO YES	NO	PRIOR TO FILTER NUMBER
1				Yes		86
2				Yes		94
3						
4						
5						
6						
7						
8						

**Check balance zero after 10 filters*

QUALITY ASSURANCE AUDIT

DATE:	1/7/2008	TIME:	1230	RH (%): 31.2	TEMP (°F): 75.4
BALANCE SN:	SA2901048		INITIAL ZERO: ok		

FILTER NUMBER:	INITIAL WEIGHT (GRAMS)	AUDIT WEIGHT (GRAMS)	ERROR* (GRAMS)	(<0.0050g)
86	4.4997	4.4995	0.0002	OK
88	4.5856	4.5854	0.0002	OK
90	4.5538	4.5537	0.0001	OK
93	4.5841	4.5839	0.0002	OK
96	4.5905	4.5902	0.0003	OK
				OK
				OK
				OK
				OK
				OK

** If error for any audit filter is greater than 0.0050 grams, then the entire batch should be re-weighed.*

Certified for use by:	Roger Thompson	Date:	1/8/2008

ENSR INTERNATIONAL

FILTER LOG

BALANCE SN: SA2901048 **BATCH #:** 1 **JOB #:** Basin

	FILTER NUMBER	TARE WEIGHT	DATE	FINAL WEIGHT	DATE	COMMENTS
1	000046	4.5441	6/29/2007	4.5622	9/8/2007	
2	000047	4.5825	6/29/2007	4.6011	9/8/2007	
3	000048	4.5711	6/29/2007	4.6058	9/8/2007	
4	000049	4.5403	6/29/2007	4.5784	9/8/2007	
5	000050	4.5708	6/29/2007	4.6043	9/8/2007	
6	000051	4.5476	6/29/2007	4.5837	9/8/2007	
7	000052	4.5119	6/29/2007	4.5421	9/8/2007	
8	000053	4.5591	6/29/2007	4.5898	9/8/2007	
9	000054	4.5554	6/29/2007	4.5730	9/8/2007	
10	000055	4.5599	6/29/2007	4.5791	9/8/2007	
11	000056	4.5143	6/29/2007	4.5509	10/5/2007	
12	000057	4.5955	6/29/2007	4.6305	10/5/2007	
13	000058	4.5752	6/29/2007	4.5831	10/5/2007	
14	000059	4.5335	6/29/2007	4.5417	10/5/2007	
15	000060	4.5601	6/29/2007	4.5910	10/5/2007	
16	000061	4.5774	6/29/2007	4.6062	10/5/2007	
17	000062	4.5744	6/29/2007	4.6014	10/5/2007	
18	000063	4.5623	6/29/2007	4.5881	10/5/2007	
19	000064	4.5571	6/29/2007	4.5707	10/5/2007	
20	000065	4.5612	6/29/2007	4.5639	10/5/2007	Invalid/Motor Failed
21	000066	4.5834	6/29/2007	4.6196	11/7/2007	
22	000067	4.5708	6/29/2007	4.6087	11/7/2007	
23	000068	4.4937	6/29/2007	4.5049	11/7/2007	
24	000069	4.5658	6/29/2007	4.5789	11/7/2007	
25	000070	4.5464	6/29/2007	4.5584	11/7/2007	
26	000071	4.5379	6/29/2007	4.5509	11/7/2007	
27	000072	4.5394	6/29/2007	4.5582	11/7/2007	
28	000073	4.5412	6/29/2007	4.5597	11/7/2007	
29	000074	4.5526	6/29/2007	4.5844	11/7/2007	
30	000075	4.5502	6/29/2007	4.5819	11/7/2007	
31	000076	4.4805	6/29/2007	4.5281	12/12/2007	
32	000077	4.559	6/29/2007	4.6054	12/12/2007	
33	000078	4.5722	6/29/2007	4.6052	12/12/2007	
34	000079	4.5432	6/29/2007	4.5736	12/12/2007	
35	000080	4.5412	6/29/2007	4.5651	12/12/2007	

ENSR INTERNATIONAL

FILTER LOG

BALANCE SN: SA2901048 **BATCH #:** 1 **JOB #:** Basin

	FILTER NUMBER	TARE WEIGHT	DATE	FINAL WEIGHT	DATE	COMMENTS
1	000081	4.5614	6/29/2007	4.5845	12/12/2007	
2	000082	4.5577	6/29/2007	4.5654	12/12/2007	
3	000083	4.5603	6/29/2007	4.5714	12/12/2007	
4	000084	4.5658	6/29/2007	4.5781	12/12/2007	
5	000085	4.5609	6/29/2007	4.5728	12/12/2007	
6	000086	4.4853	6/29/2007	4.4997	1/7/2008	
7	000087	4.5675	6/29/2007	4.5803	1/7/2008	
8	000088	4.5763	6/29/2007	4.5856	1/7/2008	
9	000089	4.5599	6/29/2007	4.5694	1/7/2008	
10	000090	4.5406	6/29/2007	4.5538	1/7/2008	
11	000091	4.5672	6/29/2007	4.5809	1/7/2008	
12	000092	4.5617	6/29/2007	4.5743	1/7/2008	
13	000093	4.5724	6/29/2007	4.5841	1/7/2008	
14	000094	4.5634	6/29/2007	4.5682	1/7/2008	
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						

ENSR INTERNATIONAL

FILTER LOG

BALANCE SN: SA2901048 **BATCH #:** 1 **JOB #:** Basin

	FILTER NUMBER	TARE WEIGHT	DATE	FINAL WEIGHT	DATE	COMMENTS
1	000095	4.5219	11/20/2007	----------	1/7/2008	VOID/Used for calibration
2	000096	4.5851	11/20/2007	4.5905	1/7/2008	
3	000097	4.5912	11/20/2007	4.6005	2/11/2008	
4	000098	4.5834	11/20/2007	4.5929	2/11/2008	
5	000099	4.5547	11/20/2007	4.5599	2/11/2008	
6	000100	4.5858	11/20/2007	4.5904	2/11/2008	
7	000101	4.5812	11/20/2007	4.5909	2/11/2008	
8	000102	4.5721	11/20/2007	4.5815	2/11/2008	
9	000103	4.5695	11/20/2007	4.5744	2/11/2008	
10	000104	4.5806	11/20/2007	4.5849	2/11/2008	
11	000105	4.5344	11/20/2007	4.5437	2/11/2008	
12	000106	4.5633	11/20/2007	4.5756	2/11/2008	
13	000107	4.5584	11/20/2007	4.5686	2/11/2008	
14	000108	4.5452	11/20/2007	4.5566	2/11/2008	
15	000109	4.5759	11/20/2007			
16	000110	4.5738	11/20/2007			
17	000111	4.5751	11/20/2007			
18	000112	4.5531	11/20/2007			
19	000113	4.5786	11/20/2007			
20	000114	4.5789	11/20/2007			
21	000115	4.5099	11/20/2007			
22	000116	4.5586	11/20/2007			
23	000117	4.5678	11/20/2007			
24	000118	4.5654	11/20/2007			
25	000119	4.5572	11/20/2007			
26	000120	4.4154	11/20/2007			
27	000121	4.5861	11/20/2007			
28	000122	4.5602	11/20/2007			
29	000123	4.5765	11/20/2007			
30	000124	4.5796	11/20/2007			
31	000125	4.5561	11/20/2007			
32	000126	4.5644	11/20/2007			
33	000127	4.5763	11/20/2007			
34	000128	4.5845	11/20/2007			
35	000129	4.5317	11/20/2007			

ENSR INTERNATIONAL

PROCESSING FOR EXPOSED FILTERS

Quality Assurance Data

PROJECT:	Basin				DATE:	10/5/2007
FILTER BATCH:	2	PM_{10} ☒	TSP ☐	DICHOT ☐	2.5 ☐	
		Please check box by hand, or highlight/shade filter type!				
AMOUNT:	10	FILTER NO:	56	TO:	65	LOT:

PRECONDITIONING

CHAMBER	DATE	TIME	RH% +/-5%	TEMP +/- 5.4°F	COMMENTS
START DAY:	10/3/2007	800	36.5	70.3	
STOP DAY:	10/5/2007	920	31.2	71.5	

RH range 20-45%, Temperature range 59°F - 77°F

GRAVIMETRIC ANALYSIS

DATE:	Time:	Start-Stop:	920	RH%	31.2	TEMP (°F): 71.5
BALANCE SN:		SA2901048				

BALANCE ZERO*	DRIFT +	DRIFT ZERO	DRIFT -	REZERO YES	REZERO NO	PRIOR TO FILTER NUMBER
1				Yes		65
2						
3						
4						
5						
6						
7						
8						

**Check balance zero after 10 filters*

QUALITY ASSURANCE AUDIT

DATE:	10/5/2007	TIME:	1000	RH (%): 33.7	TEMP (°F): 72.4
BALANCE SN:	SA2901048		INITIAL ZERO:		

FILTER NUMBER:	INITIAL WEIGHT (GRAMS)	AUDIT WEIGHT (GRAMS)	ERROR* (GRAMS)	(<0.0050g)
56	4.5509	4.5510	-0.0001	OK
58	4.5831	4.5835	-0.0004	OK
59	4.5417	4.5422	-0.0005	OK
62	4.6014	4.6018	-0.0004	OK
64	4.5707	4.5709	-0.0002	OK
				OK
				OK
				OK
				OK
				OK

** If error for any audit filter is greater than 0.0050 grams, then the entire batch should be re-weighed.*

Certified for use by:	Roger Thompson	Date:	10/5/2007

PROCESSING FOR EXPOSED FILTERS

Quality Assurance Data

PROJECT:	Basin				DATE:	11/7/2007
FILTER BATCH:	2	PM_{10} ☒	TSP ☐	DICHOT ☐	2.5 ☐	
		Please check box by hand, or highlight/shade filter type!				
AMOUNT:	10 FILTER NO:	66	TO:	75	LOT:	

PRECONDITIONING

CHAMBER	DATE	TIME	RH% +/-5%	TEMP +/- 5.4°F	COMMENTS
START DAY:	11/6/2007	1100	30	70.2	
STOP DAY:	11/7/2007	1430	30.2	70.7	

RH range 20-45%, Temperature range 59°F - 77°F

GRAVIMETRIC ANALYSIS

DATE:	Time: Start-Stop:	1430	RH%	30.2	TEMP (°F):	70.7
BALANCE SN:	SA2901048					

BALANCE ZERO*	DRIFT +	DRIFT ZERO	DRIFT -	REZERO YES	REZERO NO	PRIOR TO FILTER NUMBER
1				Yes		66
2				Yes		75
3						
4						
5						
6						
7						
8						

**Check balance zero after 10 filters*

QUALITY ASSURANCE AUDIT

DATE:	11/7/2007	TIME:	1500	RH (%):	29.6	TEMP (°F): 73.1
BALANCE SN:	SA2901048		INITIAL ZERO: ok			

FILTER NUMBER:	INITIAL WEIGHT (GRAMS)	AUDIT WEIGHT (GRAMS)	ERROR* (GRAMS)	(<0.0050g)
67	4.6087	4.6085	0.0002	OK
70	4.5584	4.5582	0.0002	OK
72	4.5582	4.5581	0.0001	OK
74	4.5844	4.5841	0.0003	OK
75	4.5819	4.5817	0.0002	OK
				OK
				OK
				OK
				OK
				OK

** If error for any audit filter is greater than 0.0050 grams, then the entire batch should be re-weighed.*

Certified for use by:	Roger Thompson	Date:	11/7/2007

ENSR INTERNATIONAL

PROCESSING FOR EXPOSED FILTERS

Quality Assurance Data

PROJECT:	Basin				DATE:	12/12/2007
FILTER BATCH:	2	PM_{10} ☒	TSP ☐	DICHOT ☐	2.5 ☐	
		Please check box by hand, or highlight/shade filter type!				
AMOUNT:	10 FILTER NO:	76	TO:	85	LOT:	

PRECONDITIONING

CHAMBER	DATE	TIME	RH% +/-5%	TEMP +/- 5.4°F	COMMENTS
START DAY:	12/6/2007	1000	30.1	72.7	
STOP DAY:	12/12/2007	1130	30	70.8	

RH range 20-45%. Temperature range 59°F - 77°F

GRAVIMETRIC ANALYSIS

DATE:	Time:	Start-Stop:	1130	RH%	30	TEMP (°F): 70.8
BALANCE SN:		SA2901048				

BALANCE ZERO*	DRIFT +	ZERO	-	REZERO YES	NO	PRIOR TO FILTER NUMBER
1				Yes		76
2				Yes		85
3						
4						
5						
6						
7						
8						

**Check balance zero after 10 filters*

QUALITY ASSURANCE AUDIT

DATE:	12/12/2007	TIME:	1145	RH (%): 31.2	TEMP (°F): 71.9
BALANCE SN:	SA2901048		INITIAL ZERO: ok		

FILTER NUMBER:	INITIAL WEIGHT (GRAMS)	AUDIT WEIGHT (GRAMS)	ERROR* (GRAMS)	(<0.0050g)
76	4.5281	4.5279	0.0002	OK
78	4.6052	4.6050	0.0002	OK
81	4.5845	4.5842	0.0003	OK
84	4.5781	4.5779	0.0002	OK
85	4.5728	4.5725	0.0003	OK
				OK
				OK
				OK
				OK
				OK

** If error for any audit filter is greater than 0.0050 grams, then the entire batch should be re-weighed.*

Certified for use by:	Roger Thompson	Date:	12/12/2007

Service Performed On
6 SEPT 2007

CBS INC.

Date of Issuance
13 SEPT 2007

This Certificate verifies that the following balances belonging to

ENSR AIR RESOURCES

have been serviced by **Jeff Roy** an authorized service representative of Certified Balance Service and were found to be within manufacturers specifications.

They were checked by weight set(s) **K-02**

Certified by the Colorado Bureau of Weights and Measures, on **12/14/2005**

and were found to be within specification and TRACEABLE TO NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST), WASHINGTON, D.C.

MANUFACTURER	MODEL #	SERIAL or ID #	DEPARTMENT	WEIGHT SET	RECERT DATE
SARTORIUS	2432	SA 2901048		K-02	03/06/2008

Jeff Roy

Service Technician's Signature

Purchase Order #
VERBAL

Certificate ID #
1121

The above work has been performed in accordance with the CBS Quality Assurance Program's most recent revision.

Oklahoma Bureau of Standards

Okla Dept of Agriculture, Food, and Forestry
2800 N. Lincoln Blvd.
Oklahoma City, Oklahoma 73105-4298
TEL (405) 522-5459
FAX (405) 522-5461
www.oda.state.ok.us

Certificate of Calibration

ENSR
1601 Prospect Parkway
Ft. Collins, Colorado

Test No. OBS 07-0754

Lab Environmental Conditions
Temperature (oC): 20.9
Pressure (mmHg): 730.7
Humidity (%): 65.9

Manufacturer: Denver Instruments
Identification: See Below
Tolerance: ANSI/ASTM E617 Class 2

This document is to certify that the (3) physical standards described below were on this day compared to the standards of the State of Oklahoma which are traceable to the National Institute of Standards and Technology. The conventional mass value is the weight in normal air (1.2 mg/cm3) at 20 C versus a reference density of 8.0 g/cm3. Tolerances are evaluated using the conventional mass values. Magnetism screening was not conducted and is not represented in the uncertainty budget. The expanded uncertainty, using NIST Technical Note 1297 as a guide, is obtained by summing in quadrature the Type A and Type B components and using a k-factor of 2. A detailed explanation of the expanded uncertainty is given on the reverse side of this certificate. This Certificate shall not be reproduced, except in full, without the written approval of the Bureau of Standards. Test procedures are OBS SOP 18 (3-1) and/or OBS SOP 17 (double substitution). This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP or any other government agency. NVLAP Lab Code: 200396-0. [c-120]

Nominal Value	Conventional Mass Value (grams)	Assumed Density (g/cm^3)	Tolerance (in/out)	Uncertainty of Mass Values (milligrams) k=2	Class 2 Tolerance (milligrams)	Mass in Vacuum Value (grams)
5 g 96-J30786-2	5.0000072	7.85	IN	0.0046	0.0540	*5.0000215*
2 g 99-J40360-9	1.9999724	7.85	IN	0.0033	0.0540	*1.9999781*
2.g J20159	1.9999859	7.85	IN	0.0033	0.0540	*1.9999916*

The above listed conventional mass values (except those marked as "out") meet the tolerance for Class 2. No weights were adjusted, the above values are 'As Received' and 'As Left'.

Date of Test: **May 7, 2007**

Richard Gonzales , Metrologist

The Expanded Uncertainties are calculated in the following manner with the listed conditions: The systematic error is calculated as the absolute difference between the observed Msc value and the control Msc value, and the portion that exceeds 1 sd of the pooled Msc values is designated as u_{sys}. This uncertainty component, u_{sys}, along with the other standard uncertainty components are summed in quadrature then multiplied times the k-factor to obtain the Expanded Uncertainty. Type A uncertainty components are designated by a lower case s and type B by lower case u.

Conditions These include the environmental conditions with their associated uncertainties and density characteristics for the test weight (X) and the standard (S) and their associated uncertainty and also the degrees of freedom associated with the standard deviation of the process, s_p.

Below, there are two uncertainties quoted for each standard, the first labeled 'Vacuum' and the second labeled 'Normal Air'. These uncertainties are associated with the environment in which the standards are used, i.e. if the standard is used in a vacuum then the 'Vacuum Uncertainty' should be used, if the standard is used in air then the 'Normal Air Uncertainty' should be used. The uncertainty quoted on the front of this calibration certificate is the 'Normal Air Uncertainty'.

Nominal	u_{sys} Obs-Con Msc (ug)	u_t Balance Temp (ug)	u_p Barometer (ug)	u_{rh} Humidity (ug)	u_{rhox} Rho X (ug)	u_{rhos} Rho S (ug)	u_s S (ug)	s_p Balance (ug)	K-factor	Expanded Uncertainty (ug)	
conditions		21.781 ±2.002	730.65 ±0.28	65.92 ±5.01	7.850 ±0.100	8.000 ±0.010		d.f. = 10			
5 g 96-J30786-2	0.036	0.069	0.004	0.038	6.188	0.596	1.919	1.071	2	13.185	Vacuum
	0.036	0.069	0.004	0.038	0.307	0.596	1.919	1.071	2	4.597	Normal Air
conditions		21.781 ±2.002	730.65 ±0.28	65.92 ±5.01	7.850 ±0.100	8.000 ±0.010		d.f. = 10			
2 g 99-J40360-9	0.435	0.028	0.001	0.015	2.474	0.238	1.143	1.065	2	5.936	Vacuum
	0.435	0.028	0.001	0.015	0.123	0.238	1.143	1.065	2	3.288	Normal Air
conditions		21.781 ±2.002	730.65 ±0.28	65.92 ±5.01	7.850 ±0.100	8.000 ±0.010		d.f. = 10			
2 g J20159	0.435	0.028	0.001	0.015	2.474	0.238	1.143	1.065	2	5.936	Vacuum
	0.435	0.028	0.001	0.015	0.123	0.238	1.143	1.065	2	3.288	Normal Air

OBS Test# 07-0754

Colorado Department of Agriculture
Inspection and Consumer Services Division
Measurement Standards Section
Metrology Laboratory
3125 Wyandot Street
Denver, CO 80211-3824
(303) 477-4220; FAX (303) 477-4248

CERTIFICATE # 06-247

Date Certified: May 8, 2006

Owner/User: ENSR Corporation
Address: 1601 Prospect Parkway, Fort Collins CO 80525
Submitted by: Henry Sofai

Serial No.: 48885 thru 48887
Manufacturer: Denver Instrument & Troemner
Item(s) Certified: Class 2, 5 g & 2 g Weights

Certificate expiration: Certificate expiration to be determined by owner using the procedures in the National Conference Laboratories International Recommended Practice RP-1, Establishment and Adjustment of calibration intervals.

Method and Traceability:
The procedure used by this laboratory is National Institute of Standards and Technology *(NIST) Handbook 145*, Standard Operating Procedure (SOP) 4, Weighing by Double Substitution. Standards used for comparison are traceable to the National Institute of Standards and Technology and are part of a comprehensive measurement assurance program for ensuring continued accuracy and traceability within the level of uncertainty reported by this laboratory. Traceability to National Standards is through the certificate number and date, above.

Laboratory Conditions:
The laboratory is monitored and maintained at 20°C to 23°C at a set point ± 2°C with maximum change 1°C/hour, with relative humidity controlled at 40% to 60% ± 10%. Measurement data is retained for buoyancy corrections, which are made to correct mass values to conventional reference conditions, if the standard and calibration item are different densities; measurements are not made when conditions deviate from those stated.

Uncertainty Statement:
The uncertainty conforms to the International Organization for Standardization (ISO) *Guide to the Expressions of Uncertainty in Measurement.* Uncertainty is based on a coverage factor, K=2, for an approximate 95 percent level of uncertainty. Uncertainty components include standard deviations, uncertainty of the standard, and any environmental corrections. The reported uncertainty exceeds the 3:1 ratio required by NIST hb 44, Appendix A, para 3.2.

Magnetism was not included in the uncertainty analysis; magnetism is a specification accounted for at the time of weight manufacture.

Explanation of Values listed in the Table on page 2:

Conventional Mass:
The value listed is a correction and must be algebraically added to the listed nominal value in order to determine the actual value. The value was computed using air buoyancy corrections, referenced to a laboratory standard air density of 1.2 mg/cm^3.
The "As Found" value is the error existing prior to adjustment, if necessary. The adjustment point is equivalent to the specification tolerance minus the reported uncertainty of the measurement. The "As Left" value is the in-tolerance value to which the item was adjusted, if necessary.

This certificate meets the requirements of ISO Guide 17025.

Metrologist performing calibration: Jennifer A. Oznoff

Diane C. Wise, Lead Metrologist

MS Invoice # 0922

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Client must not use this document to claim product endorsement by this laboratory.

ENSR Corporation
Certificate #: 06-247
Serial #: 48885 thru 48887
Date: May 8, 2006

Table

Serial Number	Mfr.	Nominal Value (g)	Conventional Mass Correction (mg)	Tolerance (± mg)	Uncertainty (± mg)
48885	Denver Instrument	5	- 0.04452	0.054	0.00422
48886	Troemner	5	- 0.03034	"	"
48887	Troemner	2	- 0.02208	"	0.00347

Supplemental Information:

All items were left "as found", no adjustments were made.

Condition of items upon receipt: The items were in good condition for the type and Class.

Weight S/N # 48885 was changed from 94-061458 permanently.

Standards and equipment used for testing:

Balance	Range	Standards Used
Mettler UMT6	0 g – 6 g	96-110696

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Client must not use this document to claim product endorsement by this laboratory.

ENSR

BALANCE CHECKS

Balance SN. SA29010 48 **Date** 1/14/08 **to**

Date	STANDARD SN	WEIGHT	MEAS.	ERROR (+/-) 0.5MG	TIME	COMMENTS
1-14-08	J20159	2.0L	2.0000	0.0000	1130	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
1-18-08	J20159	2.0L	2.0000	0.0000	1100	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
1-19-08	J20159	2.0L	2.0000	0.0000	1100	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
1-30-08	J20159	2.0L	2.0000	0.0000	1150	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
2-6-08	J20159	2.0L	2.0000	0.0000	1000	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
~~[illegible]~~ 2-11-08	J20159	2.0L	2.0000	0.0000	1430	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
2-12-08	J20159	2.0L	2.0000	0.0000	1400	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		

ENSR

BALANCE CHECKS

Balance SN. SA2901048 **Date** 11/20/07 **to** 1/10/08

Date	STANDARD SN	WEIGHT	MEAS.	ERROR (+/-) 0.5MG	TIME	COMMENTS
11/20/07	J20159	2.0L	2.0000	0.0000	1400	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
11/30/07	J20159	2.0L	2.0000	0.0000	1100	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
12-12-07	J20159	2.0L	2.0000	0.0000	1030	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
12-14-07	J20159	2.0L	2.0000	0.0000	1030	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
12-27-07	J20159	2.0L	2.0000	0.0000	1130	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
12-28-07	J20159	2.0L	2.0000	0.0000	1200	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
1-2-08	J20159	2.0L	2.0000	0.0000	1430	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
1-3-08	J20159	2.0L	2.0000	0.0000	1440	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
1-7-08	J20159	2.0L	2.0000	0.0000	1130	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
1-8-08	J20159	2.0L	2.0000	0.0000	1400	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
1-10-08	J20159	2.0L	2.0000	0.0000	1200	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		

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BALANCE CHECKS

Balance SN. SA 2901048 **Date** 9-28-07 **to** 11-13-07

Date	STANDARD SN	WEIGHT	MEAS.	ERROR (+/-) 0.5MG	TIME	COMMENTS
9-28-07	J 20159	2.0L	2.0000	0.0000	1130	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
10-3-07	J20159	2.0L	2.0000	0.0000	1400	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
10-5-07	J20159	2.0L	2.0000	0.0000	0900	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
10-9-07	J20159	2.0L	2.0000	0.0000	0930	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
10-10-07	J20159	2.0L	2.0000	0.0000	1145	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
10-23-07	J20159	2.0L	2.0000	0.0000	1300	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
10-24-07	J20159	2.0L	2.0000	0.0000	1000	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
10-29-07	J20159	2.0L	2.0000	0.0000	1350	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	4.9999	0.0001		
	"	5.0H	5.0000	0.0000		
11-6-07	J20159	2L	2.0000	0.0000	8:50	RLT
	"	2H	2.0000	0.0000		
	96-J30786-2	5L	5.0000	0.0000		
	"	5H	5.0000	0.0000		
11-7-07	J20159	2.0L	2.0000	0.0000	1300	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
11-13-07	J20159	2.0L	2.0000	0.0000	0830	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		

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BALANCE CHECKS

Balance SN. SA2901048 **Date** 8-3-07 **to** 9-27-07

Date	STANDARD SN	WEIGHT	MEAS.	ERROR (+/-) 0.5MG	TIME	COMMENTS
8-3-07	J20159	2.0L	2.0000	0.0000	1100	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
8-8-07	J20159	2.0L	2.0000	0.0000	1100	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
8-10-07	J20159	2.0L	2.0000	0.0000	1030	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
8-15-07	J20159	2.0L	2.0000	0.0000	1300	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
8-22-07	J20159	2.0L	2.0000	0.0000	0500	DH
	"	2.0H	2.0000	0.0000		
	96J307862	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
8-24-07	J20159	2.0L	2.0000	0.0000	0800	DH
	"	2.0H	2.0000	0.0000		
	96J307862	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
8-28-07	J20159	2.0L	2.0000	0.0000	1100	DH
	"	2.0H	2.0000	0.0000		
	96J307862	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
9-5-07	J20159	2.0L	2.0000	0.0000	1500	DH
	"	2.0H	2.0000	0.0000		
	96J307862	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
9-7-07	J20159	2.0L	2.0000	0.0000	1300	DH
	"	2.0H	2.0000	0.0000		
	96J307862	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
9-8-07	J20159	2.0L	2.0000	0.0000	0730	DH
	"	2.0H	2.0000	0.0000		
	96J307862	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
9-27-07	J20159	2.0L	2.0000	0.0000	1100	DH
	"	2.0H	2.0000	0.0000		
	96J307862	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		

ENSR

BALANCE CHECKS

Balance SN. SA2901048 **Date** 6-13-07 **to** 8-1-07

Date	STANDARD SN	WEIGHT	MEAS.	ERROR (+/-) 0.5MG	TIME	COMMENTS
6-13-07	J20159	2.0L	2.0000	0.0000	1300	DH
	J20159	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	96-J30786-2	5.0H	5.0000	0.0000		
6-14-07	J20159	2.0L	2.0000	0.0000	1300	DH
	J20159	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	96-J30786-2	5.0H	5.0000	0.0000		
6-15-07	J20159	2.0L	2.0000	0.0000	0900	DH
	J20159	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	4.9999	0.0001		
	96-J30786-2	5.0H	5.0000	0.0000		
6-20-07	J20159	2.0L	2.0000	0.0000	0900	DH
	J20159	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	96-J30786-2	5.0H	5.0000	0.0000		
6-29-07	J20159	2.0L	2.0000	0.0000	0530	DH
	J20159	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	96-J30786-2	5.0H	5.0000	0.0000		
6-30-07	J20159	2.0L	2.0000	0.0000	0700	DH
	J20159	2.0H	2.0000	0.0000		
	96 J30786-2	5.0L	5.0000	0.0000		
	96-J30786-2	5.0H	5.0000	0.0000		
7-9-07	J20159	2.0 H	2.0000	0.0000	0900	RLT
	"	2.0 L	2.0000	0.0000		
	96 J30786-2	5.0 H	5.0000	0.0000		
	"	5.0 L	5.0000	0.0000		
7-11-07	J20159	2.0L	2.0000	0.0000	1230	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
7-13-07	J20159	2.0L	2.0000	0.0000	0600	DH
	"	2.0H	2.0000	0.0000		
	96J307862	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
7-19-07	J20159	2.0L	2.0000	0.0000	1000	DH
	"	2.0H	2.0000	0.0000		
	96J307862	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
8-1-07	J20159	2.0L	2.0000	0.0000	1300	DH
	"	2.0H	2.0000	0.0000		
	96J307862	5.0L	5.0000	0.0000		
		5.0H	5.0000	0.0000		

Appendix D

Meteorological and Air Quality Data Listings

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
mps
10WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
10/1/07	1.9	2.1	3.3	3.9	4.2	3.7	3.4	5.2	7.1	8.1	9.1	9.0	10.4	9.9	10.6	9.3	9.3	7.4	7.7	6.9	6.5	6.9	7.6	6.8	24	10.6	1.9	6.7
10/2/07	6.5	7.6	5.0	5.1	8.9	9.3	8.9	10.5	11.9	12.4	8.4	10.5	10.7	10.0	10.1	9.6	8.4	5.7	3.1	3.6	4.4	4.6	3.8	4.6	24	12.4	3.1	7.7
10/3/07	5.2	4.9	4.8	4.8	5.0	4.6	5.3	4.8	5.7	5.2	5.3	5.4	5.0	5.3	5.0	4.2	3.3	1.6	0.7	1.2	2.6	1.3	3.5	6.4	24	6.4	0.7	4.2
10/4/07	4.8	3.8	4.0	4.4	3.4	2.9	4.0	2.4	3.1	5.3	5.8	5.9	6.3	6.7	6.7	7.2	8.3	6.9	5.4	6.3	6.4	6.5	6.0	6.2	24	8.3	2.4	5.4
10/5/07	6.5	7.1	7.9	6.6	7.5	7.2	6.7	7.3	7.6	6.7	5.8	5.3	4.7	4.6	4.2	3.9	3.8	3.6	3.9	3.6	4.0	3.8	4.5	4.4	24	7.9	3.6	5.5
10/6/07	4.0	4.4	5.9	5.6	5.0	4.5	5.9	5.9	5.8	6.0	6.6	6.0	6.2	5.1	7.8	9.2	10.5	10.8	10.1	9.3	7.0	8.2	9.4	10.4	24	10.8	4.0	7.1
10/7/07	9.2	8.4	8.2	7.9	6.9	7.0	7.2	6.7	7.0	7.4	7.5	7.2	5.9	5.3	5.2	3.9	3.2	3.4	3.2	2.2	1.7	1.4	1.1	1.8	24	9.2	1.1	5.4
10/8/07	1.4	1.4	3.0	3.5	2.8	1.2	0.9	1.1	2.8	4.2	5.2	7.1	7.4	7.8	9.6	8.4	8.9	5.6	4.2	4.6	6.0	7.9	8.3	7.6	24	9.6	0.9	5.0
10/9/07	6.6	7.9	8.8	8.0	5.8	4.6	1.8	3.6	5.5	6.6	7.0	6.7	6.3	6.2	6.2	5.9	5.4	3.9	2.5	4.0	3.7	3.1	3.1	3.3	24	8.8	1.8	5.3
10/10/07	2.9	2.6	4.0	4.1	3.4	2.6	1.8	3.5	4.3	3.8	3.1	3.0	3.1	3.8	4.3	4.4	4.3	4.0	3.4	3.4	3.2	4.6	4.6	4.7	24	4.7	1.8	3.6
10/11/07	5.0	5.4	5.5	5.7	6.1	7.5	7.9	9.2	9.0	8.5	9.3	10.2	8.5	6.7	5.7	3.9	3.0	2.9	3.7	2.7	1.6	1.0	1.2	1.3	24	10.2	1.0	5.5
10/12/07	1.8	1.2	0.6	1.0	2.6	3.0	3.4	2.1	1.3	0.9	1.1	1.4	1.6	1.7	2.6	1.2	1.4	1.2	0.8	1.1	1.9	1.4	1.7	2.0	24	3.4	0.6	1.6
10/13/07	3.0	3.5	3.5	3.2	2.6	2.8	2.9	4.4	4.4	4.8	4.5	3.2	3.2	3.8	3.6	3.2	2.2	2.5	3.3	4.1	4.3	4.0	3.1	2.4	24	4.8	2.2	3.4
10/14/07	2.8	3.6	3.2	3.3	3.8	4.1	4.1	3.6	3.9	4.3	5.3	6.1	6.1	6.7	6.1	6.5	6.6	5.2	3.4	3.0	2.8	2.8	3.3	3.8	24	6.7	2.8	4.4
10/15/07	4.7	4.6	5.3	5.0	4.7	5.0	4.7	5.4	6.0	6.7	7.4	7.7	6.9	7.2	6.1	7.4	7.7	7.3	7.9	7.1	6.3	5.9	5.7	5.8	24	7.9	4.6	6.2
10/16/07	5.3	4.8	4.6	4.0	4.2	4.2	4.3	3.8	3.0	2.6	3.2	1.8	1.9	2.3	2.7	2.5	1.5	1.6	2.1	2.3	2.7	3.0	4.0	2.6	24	5.3	1.5	3.1
10/17/07	2.5	3.2	4.8	3.6	3.8	5.5	5.7	7.5	7.1	6.7	6.0	6.7	6.8	5.5	2.6	7.5	6.7	5.1	5.6	4.8	5.4	4.4	4.6	5.2	24	7.5	2.5	5.3
10/18/07	4.6	5.0	5.5	5.4	6.5	7.9	8.7	9.3	10.3	11.2	11.4	12.1	13.0	12.8	13.8	12.9	13.0	12.0	12.3	11.5	12.0	12.3	12.1	12.3	24	13.8	4.6	10.3
10/19/07	12.5	11.6	10.9	9.1	8.5	9.0	8.9	6.5	8.0	7.9	7.8	7.9	8.0	7.7	7.5	7.3	5.8	3.9	4.3	4.5	4.3	4.6	5.0	5.5	24	12.5	3.9	7.4
10/20/07	5.1	5.8	5.6	5.4	5.2	5.9	5.2	5.2	5.1	5.3	6.4	7.7	8.4	6.0	6.1	6.9	5.6	4.5	4.9	8.2	6.0	2.8	2.0	3.4	24	8.4	2.0	5.5
10/21/07	3.8	4.7	6.0	6.5	6.3	5.8	6.1	6.7	8.1	9.8	10.5	11.5	12.4	11.9	12.1	11.5	8.8	6.4	4.8	5.1	4.5	4.7	5.0	4.7	24	12.4	3.8	7.4
10/22/07	4.8	5.2	4.3	5.1	5.2	5.7	4.5	4.5	4.1	5.3	5.3	6.1	6.6	7.6	8.5	7.2	6.9	3.2	4.3	4.9	4.9	4.5	4.7	5.2	24	8.5	3.2	5.4
10/23/07	4.6	5.3	5.1	4.7	5.4	4.8	4.8	6.5	8.4	10.5	12.1	12.1	11.9	12.5	12.4	12.2	9.1	7.7	7.4	4.6	1.3	3.0	3.8	3.7	24	12.5	1.3	7.2
10/24/07	4.2	2.1	0.9	1.1	1.0	3.2	3.4	4.0	4.4	6.4	6.9	6.8	7.0	7.1	6.8	7.2	6.6	5.4	6.0	5.9	5.5	5.2	5.7	7.1	24	7.2	0.9	5.0
10/25/07	7.4	7.0	6.8	7.0	8.5	9.8	9.2	8.8	9.7	9.1	8.2	7.3	7.7	7.5	7.5	5.8	4.1	3.8	4.1	3.4	2.2	2.9	2.6	2.8	24	9.8	2.2	6.4
10/26/07	4.1	3.9	6.0	5.5	5.8	7.5	8.7	9.3	8.4	9.8	11.3	12.1	13.2	13.6	12.1	11.0	8.4	5.8	4.3	3.6	3.1	3.6	4.0	4.1	24	13.6	3.1	7.5
10/27/07	4.1	5.0	4.7	4.5	4.1	4.9	5.6	5.6	6.9	7.5	7.0	6.8	6.4	5.9	6.0	4.8	3.5	1.6	1.6	1.6	2.2	3.1	3.8	3.6	24	7.5	1.6	4.6
10/28/07	4.0	5.3	5.4	6.5	6.1	6.0	4.8	4.3	4.4	5.8	6.2	5.7	6.6	6.8	6.3	6.2	4.5	4.4	4.9	4.8	5.7	5.3	5.1	5.1	24	6.8	4.0	5.4
10/29/07	4.9	5.2	3.8	0.9	0.6	3.5	4.4	4.5	3.5	4.0	5.8	6.2	5.9	6.0	5.4	4.8	3.5	4.1	4.4	4.4	3.5	3.3	3.7	4.1	24	6.2	0.6	4.2
10/30/07	4.4	4.2	5.2	4.5	2.8	2.4	3.5	4.6	3.0	2.0	3.7	4.6	6.4	6.5	6.6	8.8	10.8	15.4	15.9	14.1	11.2	9.3	10.2	9.7	24	15.9	2.0	7.1
10/31/07	8.8	8.5	7.6	7.0	7.2	7.2	7.1	7.7	7.3	8.5	8.4	8.9	9.2	8.5	7.9	8.0	5.5	3.3	4.1	5.1	5.1	4.8	4.5	4.9	24	9.2	3.3	6.9
hr max	12.5	11.6	10.9	9.1	8.9	9.8	9.2	10.5	11.9	12.4	12.1	12.1	13.2	13.6	13.8	12.9	13.0	15.4	15.9	14.1	12.0	12.3	12.1	12.3				
hr min	1.4	1.2	0.6	0.9	0.6	1.2	0.9	1.1	1.3	0.9	1.1	1.4	1.6	1.7	2.6	1.2	1.4	1.2	0.7	1.1	1.3	1.0	1.1	1.3				
average	4.9	5.0	5.2	4.9	5.0	5.3	5.3	5.6	6.0	6.6	6.8	7.1	7.2	7.1	7.0	6.9	6.1	5.2	5.0	4.9	4.6	4.5	4.8	5.0				

monthly max hr	monthly min hr	monthly ave hr
15.9	0.6	5.7
10/30/07	10/12/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
mps
50WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
10/1/07	2.9	4.2	6.3	7.6	8.3	10.2	7.1	7.6	9.2	9.5	9.9	9.7	11.1	10.5	12.1	10.3	10.3	9.3	11.1	9.4	8.2	10.0	11.1	10.2	24	12.1	2.9	9.0
10/2/07	10.9	12.1	8.4	8.5	11.7	12.6	12.6	14.1	15.8	15.7	10.7	13.1	13.3	12.4	12.4	12.2	10.9	8.2	6.0	6.0	5.5	6.3	5.8	5.7	24	15.8	5.5	10.5
10/3/07	7.9	9.3	9.6	9.3	9.5	10.6	10.3	9.5	7.4	5.9	6.1	6.3	6.0	6.3	6.1	5.0	4.4	2.5	1.2	1.4	4.4	4.1	6.4	9.7	24	10.6	1.2	6.6
10/4/07	7.8	6.6	6.7	7.3	7.2	7.2	9.4	7.5	5.2	5.9	6.5	6.7	7.4	7.8	8.2	8.7	10.3	8.9	9.4	8.9	8.7	8.4	8.0	8.3	24	10.3	5.2	7.8
10/5/07	8.3	8.7	9.6	8.3	8.9	8.5	8.0	8.7	9.4	7.8	6.1	5.9	5.5	5.9	5.1	4.7	4.5	4.5	5.4	5.4	5.9	5.7	6.6	6.1	24	9.6	4.5	6.8
10/6/07	5.5	6.1	8.1	7.8	6.8	6.9	9.6	9.1	8.2	6.7	8.0	6.9	6.6	5.7	8.5	10.1	12.1	12.7	12.6	11.7	8.9	10.0	11.3	12.7	24	12.7	5.5	8.9
10/7/07	11.0	10.2	10.1	9.5	8.2	8.2	8.7	8.1	8.4	8.7	8.7	8.2	6.5	5.8	5.7	4.5	3.6	3.8	4.7	4.2	4.0	2.9	1.7	2.6	24	11.0	1.7	6.6
10/8/07	1.4	0.9	3.5	4.4	5.4	4.4	2.6	2.3	4.8	5.2	5.9	7.9	8.5	9.1	11.0	9.8	10.2	7.8	8.0	9.9	11.4	12.8	12.4	11.6	24	12.8	0.9	7.1
10/9/07	10.4	11.3	12.4	11.7	8.5	6.9	3.3	5.0	6.3	7.4	8.0	7.4	7.1	7.0	6.9	6.6	6.2	5.2	4.8	7.6	7.8	7.3	7.1	6.2	24	12.4	3.3	7.4
10/10/07	6.7	5.9	6.9	7.9	7.4	5.6	5.1	5.5	5.4	4.5	3.6	3.4	3.6	4.3	4.8	4.9	5.1	5.5	7.3	7.3	7.5	9.4	8.0	7.9	24	9.4	3.4	6.0
10/11/07	8.2	8.4	8.6	8.7	9.2	10.9	11.2	12.4	11.4	10.4	11.0	12.0	10.0	7.4	6.1	4.4	3.3	4.1	7.5	6.8	4.4	5.1	5.3	3.3	24	12.4	3.3	7.9
10/12/07	2.9	2.6	2.5	3.0	4.4	5.1	5.1	5.4	4.4	0.9	1.2	1.4	1.8	1.9	2.7	1.5	1.5	1.9	1.5	2.0	3.4	2.2	1.4	4.3	24	5.4	0.9	2.7
10/13/07	6.2	6.4	6.5	5.6	4.6	4.7	6.0	6.6	6.1	5.6	5.2	3.8	3.9	4.6	4.2	4.1	4.0	4.4	5.2	6.2	6.1	5.1	4.2	3.7	24	6.6	3.7	5.1
10/14/07	4.4	5.1	4.7	4.5	5.1	5.8	6.3	5.6	5.5	5.9	6.6	7.8	8.2	8.9	8.0	8.6	8.8	7.3	6.4	5.1	4.9	5.0	5.2	5.9	24	8.9	4.4	6.2
10/15/07	6.9	6.9	7.5	7.0	6.9	7.6	6.9	7.6	8.1	8.6	9.3	9.9	9.0	9.3	8.5	10.1	10.6	10.2	11.0	10.0	9.1	8.3	7.7	7.9	24	11.0	6.9	8.5
10/16/07	7.5	6.6	6.1	5.5	5.6	5.5	5.7	5.2	4.0	3.1	3.8	2.0	2.1	2.7	3.2	2.8	1.8	2.3	2.8	3.0	3.4	3.6	5.2	3.2	24	7.5	1.8	4.0
10/17/07	3.5	4.5	6.2	5.0	6.1	7.2	7.4	10.0	9.1	8.4	7.4	8.2	8.3	7.1	3.6	11.4	9.8	7.3	8.1	6.5	7.2	6.6	6.8	7.1	24	11.4	3.5	7.2
10/18/07	6.2	6.8	7.3	6.7	8.1	10.0	10.6	11.3	12.5	13.3	13.4	14.6	15.6	15.2	16.1	15.4	15.4	14.3	14.7	14.0	14.5	15.0	14.8	14.8	24	16.1	6.2	12.5
10/19/07	14.8	13.8	13.2	11.7	11.1	12.0	12.2	9.2	9.8	8.8	8.7	8.8	9.0	8.8	8.4	8.3	7.1	6.5	7.1	7.7	8.4	9.9	10.9	11.7	24	14.8	6.5	9.9
10/20/07	9.6	10.2	11.1	11.3	11.0	10.7	10.0	9.6	8.3	6.7	7.3	8.5	9.4	7.0	7.2	8.2	7.1	6.7	7.6	11.0	7.9	4.8	3.3	5.2	24	11.3	3.3	8.3
10/21/07	6.7	7.9	8.7	8.9	8.8	8.0	8.1	8.5	9.9	11.4	12.1	13.1	13.9	13.6	14.0	13.4	10.6	8.6	8.4	9.2	8.4	8.2	8.9	8.9	24	14.0	6.7	9.9
10/22/07	9.3	9.5	8.5	9.0	9.8	10.6	7.9	7.0	6.4	5.9	6.0	6.8	7.2	8.5	9.6	8.4	8.0	5.1	6.8	8.0	7.7	6.1	6.7	7.5	24	10.6	5.1	7.8
10/23/07	7.4	9.1	9.9	9.8	10.7	10.2	9.5	10.5	11.2	12.1	13.7	13.7	13.3	14.4	14.4	14.4	11.5	11.2	11.2	8.3	4.2	4.6	6.2	6.4	24	14.4	4.2	10.3
10/24/07	7.8	5.9	2.8	1.7	2.2	3.1	4.3	6.9	7.5	7.4	7.9	7.6	7.9	7.8	7.1	7.8	7.2	7.3	9.9	9.9	8.3	7.9	8.3	10.9	24	10.9	1.7	6.9
10/25/07	12.0	11.4	11.4	12.1	13.6	15.2	13.5	12.3	13.3	11.6	9.9	8.5	9.1	9.1	8.9	7.0	5.9	7.6	8.9	7.7	5.0	5.7	4.0	5.5	24	15.2	4.0	9.6
10/26/07	8.1	8.1	10.1	9.2	9.4	11.0	12.7	13.1	11.0	12.2	14.1	14.9	16.2	16.8	15.1	14.0	10.8	7.9	6.1	5.6	5.2	6.3	5.2	5.3	24	16.8	5.2	10.4
10/27/07	6.2	7.5	8.1	8.3	8.7	10.0	9.1	9.2	8.6	8.3	7.6	7.6	7.1	6.5	6.6	5.4	3.9	1.9	1.4	2.9	3.6	4.8	6.9	8.4	24	10.0	1.4	6.6
10/28/07	9.7	11.1	11.1	11.8	11.1	10.5	7.2	7.0	6.9	7.6	7.4	6.9	8.0	8.2	7.9	7.9	7.3	8.0	8.3	9.0	10.6	8.4	7.0	6.8	24	11.8	6.8	8.6
10/29/07	7.2	6.6	5.4	4.1	1.9	1.3	3.2	3.8	5.3	4.6	6.1	7.1	6.8	6.8	6.2	5.7	5.7	7.4	6.0	7.7	7.5	6.1	5.6	6.3	24	7.7	1.3	5.6
10/30/07	6.5	6.0	6.4	4.9	3.6	2.4	3.5	4.7	3.8	4.3	4.8	4.7	7.8	8.4	9.5	10.8	13.4	18.6	19.0	16.9	13.7	11.6	12.6	11.9	24	19.0	2.4	8.7
10/31/07	11.3	11.3	10.7	10.2	9.9	10.8	11.3	11.7	9.2	9.5	9.3	9.8	10.3	9.5	8.9	9.1	6.7	4.7	5.0	6.2	7.9	10.3	10.5	9.9	24	11.7	4.7	9.3
hr max	14.8	13.8	13.2	12.1	13.6	15.2	13.5	14.1	15.8	15.7	14.1	14.9	16.2	16.8	16.1	15.4	15.4	18.6	19.0	16.9	14.5	15.0	14.8	14.8				
hr min	1.4	0.9	2.5	1.7	1.9	1.3	2.6	2.3	3.8	0.9	1.2	1.4	1.8	1.9	2.7	1.5	1.5	1.9	1.2	1.4	3.4	2.2	1.4	2.6				
average	7.6	7.8	8.0	7.8	7.9	8.2	8.0	8.2	8.1	7.9	7.9	8.2	8.4	8.3	8.3	8.2	7.7	7.2	7.5	7.6	7.2	7.2	7.3	7.6				

monthly max hr	monthly min hr	monthly ave hr
19.0	0.9	7.8
10/30/07	10/8/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
mps
100WS

data channel mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
10/1/07	2.8	4.1	5.9	7.6	6.7	7.9	8.0	12.0	9.8	8.5	9.1	8.9	12.0	11.4	13.9	11.7	11.7	10.0	11.2	10.6	12.1	15.9	15.6	14.2	24	15.90	2.80	10.07
10/2/07	13.9	14.8	10.9	10.3	13.5	14.9	14.9	16.4	17.5	16.9	12.3	14.0	14.1	13.2	13.0	12.9	11.9	9.6	8.2	8.0	6.5	6.1	5.9	5.3	24	17.5	5.3	11.9
10/3/07	7.1	8.7	10.5	11.3	13.2	13.3	13.2	11.6	8.6	7.4	6.3	6.4	6.1	6.4	6.3	5.3	4.8	2.8	1.7	1.1	3.6	2.8	7.5	12.9	24	13.3	1.1	7.5
10/4/07	10.4	9.0	9.9	9.6	9.6	10.6	11.1	10.8	9.6	6.6	7.7	7.1	7.8	8.5	8.7	10.3	11.7	11.7	13.1	13.7	12.8	12.2	11.3	11.8	24	13.7	6.6	10.2
10/5/07	11.2	11.6	12.8	10.3	11.6	10.9	10.5	10.9	11.0	9.1	7.7	7.3	6.4	5.3	5.3	4.8	4.7	5.0	6.2	5.8	6.3	7.3	7.7	7.7	24	12.8	4.7	8.2
10/6/07	7.1	8.2	9.6	8.9	8.5	9.7	13.6	12.2	9.6	7.6	8.3	6.8	6.7	5.8	8.7	10.4	12.5	13.5	14.1	13.1	10.3	11.5	12.8	14.3	24	14.3	5.8	10.2
10/7/07	12.6	11.6	11.5	10.8	9.4	9.1	9.8	9.2	9.3	9.2	9.1	8.4	6.7	6.0	5.9	4.7	3.8	4.0	5.0	4.5	4.4	3.4	1.7	2.7	24	12.6	1.7	7.2
10/8/07	1.4	1.4	2.2	2.6	4.7	3.9	3.4	3.1	5.2	6.0	6.4	7.9	8.8	9.6	11.6	10.4	10.9	9.1	9.2	12.0	15.1	16.5	16.6	15.5	24	16.6	1.4	8.1
10/9/07	14.4	14.6	15.9	15.4	11.6	9.6	4.6	7.0	7.0	7.6	8.3	7.6	7.5	7.3	7.2	7.0	6.6	5.9	5.5	8.1	9.1	10.1	10.5	9.8	24	15.9	4.6	9.1
10/10/07	10.1	9.1	9.6	9.6	9.5	8.4	6.9	6.3	5.3	4.6	3.7	3.4	3.8	4.6	5.2	5.3	5.4	6.3	8.4	8.8	10.8	13.1	11.5	11.3	24	13.1	3.4	7.5
10/11/07	11.3	11.4	11.6	11.9	12.4	14.2	14.3	15.4	12.5	10.6	11.2	12.2	9.9	7.3	6.0	4.6	3.3	4.3	8.5	8.9	7.9	7.5	7.7	6.0	24	15.4	3.3	9.6
10/12/07	6.4	4.1	4.0	4.3	4.5	4.7	5.1	5.0	4.4	1.7	1.2	1.4	2.0	1.9	2.8	1.5	1.6	2.4	2.5	2.5	3.6	1.4	1.9	2.2	24	6.4	1.2	3.0
10/13/07	6.3	9.3	9.2	9.3	8.6	9.2	9.7	9.4	7.7	6.1	5.6	4.4	3.9	4.7	4.4	4.8	5.1	6.0	6.6	7.1	6.8	6.6	5.4	5.6	24	9.7	3.9	6.7
10/14/07	5.6	5.8	5.9	5.5	6.1	6.7	7.2	6.8	6.2	7.3	7.6	7.8	8.1	9.3	8.6	8.7	8.8	8.4	7.8	6.1	6.6	6.8	6.1	7.2	24	9.3	5.5	7.1
10/15/07	8.6	8.7	9.1	8.4	8.3	8.8	8.5	9.1	9.5	9.8	10.1	10.9	9.4	10.1	8.7	9.7	10.5	10.1	11.2	10.3	9.3	8.6	7.9	7.7	24	11.2	7.7	9.3
10/16/07	7.0	6.1	6.2	6.0	6.3	6.0	6.1	5.3	3.8	3.1	3.9	2.1	2.2	2.8	3.2	3.0	2.1	2.8	3.0	3.3	3.7	3.8	5.6	3.6	24	7.0	2.1	4.2
10/17/07	3.8	5.1	6.1	6.6	8.7	9.0	9.0	11.8	10.3	9.0	7.9	8.5	8.7	7.9	4.7	12.4	9.4	7.0	8.6	8.7	9.2	6.6	7.1	8.3	24	12.4	3.8	8.1
10/18/07	7.4	8.2	8.9	7.6	9.3	11.2	11.9	13.1	14.1	15.0	15.0	16.1	17.2	16.7	17.5	17.0	17.0	16.0	16.7	15.7	16.4	16.8	16.6	16.5	24	17.5	7.4	14.1
10/19/07	16.1	14.9	14.8	13.9	13.7	15.1	15.1	12.3	12.2	9.6	8.7	9.1	9.3	9.1	8.6	8.7	7.5	6.8	8.2	7.7	7.3	9.3	12.8	14.0	24	16.1	6.8	11.0
10/20/07	12.0	10.9	12.3	12.9	12.6	13.3	13.1	13.9	12.7	8.1	7.4	8.8	9.6	7.3	7.5	8.8	8.3	8.5	10.1	13.4	8.9	6.5	4.6	6.3	24	13.9	4.6	9.9
10/21/07	9.2	9.9	11.4	11.3	11.3	10.1	10.2	10.4	11.3	12.4	12.7	13.7	14.5	14.2	14.8	14.3	11.7	10.2	10.4	11.2	9.4	8.3	9.9	10.2	24	14.8	8.3	11.4
10/22/07	11.6	11.9	11.0	10.6	12.1	12.0	9.2	7.7	6.5	6.4	6.1	6.9	7.3	8.7	10.0	8.9	8.5	5.8	7.2	8.6	8.0	6.1	6.1	7.3	24	12.1	5.8	8.5
10/23/07	6.7	8.2	9.8	11.9	14.4	13.2	12.9	14.4	14.4	13.6	14.2	14.2	13.7	15.1	15.2	15.2	13.0	13.6	14.6	11.2	7.4	6.6	7.5	7.7	24	15.2	6.6	12.0
10/24/07	8.1	7.0	4.8	3.4	3.3	3.6	4.0	7.4	9.3	8.4	8.4	8.4	8.4	8.5	7.7	6.4	8.0	8.2	9.2	10.2	10.5	15.0	15.9	17.8	24	17.8	3.3	8.5
10/25/07	16.7	15.9	16.4	17.7	18.9	19.8	19.9	19.6	16.4	12.9	10.2	9.2	9.6	9.7	9.7	7.4	6.4	7.6	7.0	8.5	6.9	7.0	6.2	4.6	24	19.9	4.6	11.8
10/26/07	9.4	10.8	13.2	11.8	11.8	13.4	14.7	15.4	12.9	13.2	15.0	16.0	17.3	18.0	16.3	15.3	12.2	9.1	7.2	7.1	7.0	7.3	4.8	4.7	24	18.0	4.7	11.8
10/27/07	6.0	7.9	8.5	8.7	9.7	11.4	11.9	10.2	9.8	8.7	7.8	7.9	7.3	6.7	6.8	5.6	4.1	2.2	1.4	3.1	3.5	4.3	5.5	7.9	24	11.9	1.4	7.0
10/28/07	9.6	11.6	13.5	15.0	11.5	9.2	10.1	14.0	11.0	9.4	7.5	7.1	8.3	8.4	8.3	8.4	8.4	9.0	9.7	10.6	9.7	7.8	7.8	7.6	24	15.0	7.1	9.7
10/29/07	7.4	6.6	6.1	3.8	1.8	1.6	3.5	4.3	5.8	5.6	7.4	7.3	7.0	6.9	6.3	6.2	6.9	7.8	7.0	9.3	6.4	8.0	7.9	5.7	24	9.3	1.6	6.2
10/30/07	5.6	6.6	6.2	3.9	2.7	1.8	2.9	3.9	5.3	8.0	6.8	5.2	8.8	10.5	11.0	12.1	15.5	20.5	20.9	18.4	15.8	13.8	14.6	13.7	24	20.9	1.8	9.8
10/31/07	13.3	13.6	13.6	13.0	12.6	14.2	13.9	15.5	11.8	10.2	9.6	10.0	10.7	9.9	9.3	9.5	7.4	5.6	5.5	6.3	7.8	10.4	10.9	10.9	24	15.5	5.5	10.6
hr max	16.7	15.9	16.4	17.7	18.9	19.8	19.9	19.6	17.5	16.9	15.0	16.1	17.3	18.0	17.5	17.0	17.0	20.5	20.9	18.4	16.4	16.8	16.6	17.8				
hr min	1.4	1.4	2.2	2.6	1.8	1.6	2.9	3.1	3.8	1.7	1.2	1.4	2.0	1.9	2.8	1.5	1.6	2.2	1.4	1.1	3.5	1.4	1.7	2.2				
average	9.0	9.3	9.7	9.5	9.6	9.9	10.0	10.5	9.7	8.8	8.5	8.5	8.8	8.8	8.8	8.8	8.4	8.1	8.6	8.8	8.6	8.6	8.8	9.1				

monthly max hr	monthly min hr	monthly ave hr
20.9	1.1	9.0
10/30/07	10/3/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
Deg
10mWD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
10/1/07	122	162	156	170	176	162	167	170	157	155	161	161	171	169	173	169	169	161	158	161	167	173	176	181	24
10/2/07	178	180	201	249	325	326	313	311	308	317	316	305	303	306	307	309	309	312	287	266	238	250	235	218	24
10/3/07	213	211	208	199	193	193	183	183	190	198	213	209	213	225	231	223	218	198	182	98	119	44	330	351	24
10/4/07	5	2	360	337	353	6	9	31	62	63	56	53	49	54	51	55	66	59	49	55	56	58	50	54	24
10/5/07	53	57	59	52	56	58	57	59	64	63	60	55	51	42	44	38	29	19	30	36	42	42	46	67	24
10/6/07	50	47	67	68	80	93	120	131	149	174	203	242	262	262	292	310	322	334	347	356	359	339	338	337	24
10/7/07	339	346	344	338	337	326	339	342	339	351	346	341	330	328	332	347	337	328	9	20	36	355	282	333	24
10/8/07	280	246	223	216	218	183	175	288	242	256	274	265	261	261	272	269	288	269	236	226	255	264	283	282	24
10/9/07	285	295	300	302	312	325	360	316	319	345	343	339	340	340	340	337	337	344	323	321	333	336	347	359	24
10/10/07	18	22	5	3	8	11	18	35	43	31	27	51	45	54	62	70	80	87	95	94	96	95	97	108	24
10/11/07	112	112	119	126	133	134	141	141	145	147	144	140	150	160	163	176	148	125	102	94	51	86	101	15	24
10/12/07	39	15	152	188	221	269	297	343	17	90	74	136	209	214	237	244	248	27	88	60	40	2	351	51	24
10/13/07	78	72	66	51	40	31	54	63	65	64	64	58	40	30	23	30	38	39	46	36	47	60	61	39	24
10/14/07	41	9	11	11	13	36	38	38	31	20	27	36	43	47	49	46	43	33	41	38	32	21	13	18	24
10/15/07	24	20	21	23	29	33	23	18	15	12	15	23	35	34	38	41	41	40	45	48	47	47	48	48	24
10/16/07	45	45	34	35	28	31	32	38	44	27	26	27	3	14	29	46	108	90	115	113	131	159	187	172	24
10/17/07	151	141	151	119	112	114	111	122	125	113	98	106	122	112	76	139	159	150	100	62	59	45	38	23	24
10/18/07	7	358	347	328	340	351	341	336	335	332	330	334	335	327	323	320	315	314	315	311	306	310	312	312	24
10/19/07	309	303	304	298	297	300	291	303	291	283	284	287	286	272	274	272	270	227	206	194	192	195	192	200	24
10/20/07	214	207	218	239	276	291	308	316	334	343	341	330	324	334	327	327	326	337	329	329	335	350	295	322	24
10/21/07	312	308	324	339	346	326	322	321	326	320	322	323	325	327	329	329	337	339	311	308	294	277	271	278	24
10/22/07	284	286	282	280	284	283	259	243	237	243	246	256	262	265	276	279	286	256	243	249	257	248	249	250	24
10/23/07	238	241	238	237	235	231	243	283	286	296	309	310	307	318	319	317	331	340	344	360	30	328	338	326	24
10/24/07	328	353	235	272	196	204	212	205	187	179	181	176	181	176	169	170	168	163	161	162	164	168	170	174	24
10/25/07	178	183	177	175	181	182	177	175	182	186	182	180	184	184	179	190	173	147	145	122	63	73	35	33	24
10/26/07	15	37	27	19	18	28	35	33	23	26	21	20	19	22	16	16	16	12	11	1	339	315	294	282	24
10/27/07	277	276	269	247	247	250	255	266	294	320	330	332	326	324	312	309	317	308	331	64	96	104	115	131	24
10/28/07	137	145	148	150	150	149	162	172	183	190	208	216	210	210	212	216	209	200	195	214	232	238	249	269	24
10/29/07	264	279	323	349	154	178	195	201	195	181	177	189	197	191	189	184	183	190	176	173	186	191	187	202	24
10/30/07	214	223	227	238	239	220	186	190	183	176	175	170	182	186	218	269	305	330	331	327	322	324	320	315	24
10/31/07	307	305	302	295	294	290	279	289	291	296	302	302	308	306	294	298	296	267	241	226	219	218	209	199	24

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
Deg
50mWD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
10/1/07	77	116	128	143	156	155	164	169	159	157	162	162	170	169	173	170	170	163	159	161	167	174	176	179	24
10/2/07	179	181	196	254	326	327	315	311	308	317	316	304	302	305	307	308	308	312	308	299	275	276	278	250	24
10/3/07	227	224	229	219	202	189	182	182	190	200	212	209	212	225	232	222	217	221	233	102	118	92	346	355	24
10/4/07	10	18	26	4	2	10	25	31	64	65	58	54	51	55	53	58	68	61	53	57	59	61	55	59	24
10/5/07	57	61	61	55	58	61	60	61	66	64	61	56	54	44	47	40	31	23	32	40	46	47	49	70	24
10/6/07	55	52	70	72	84	100	125	135	150	174	204	241	260	262	292	310	322	334	347	357	359	340	337	338	24
10/7/07	339	346	344	339	338	327	340	342	340	351	347	342	331	329	334	347	337	329	7	21	38	31	15	356	24
10/8/07	344	284	225	222	225	216	198	218	241	258	275	265	260	260	271	269	287	273	255	247	266	271	284	286	24
10/9/07	287	297	302	305	316	327	351	325	322	346	344	340	339	341	340	338	338	349	348	336	348	353	357	7	24
10/10/07	22	23	17	16	23	25	32	40	44	33	29	50	47	56	63	72	81	88	90	96	91	96	99	109	24
10/11/07	114	114	122	130	137	137	143	144	147	149	146	141	153	161	163	176	153	129	108	111	106	124	134	119	24
10/12/07	98	134	163	201	257	300	311	328	342	67	83	153	206	207	233	243	262	28	42	80	44	42	20	65	24
10/13/07	83	78	75	63	61	58	67	67	70	67	68	62	42	31	24	29	44	48	49	39	50	63	65	48	24
10/14/07	47	14	14	14	18	40	43	44	35	24	28	38	45	50	50	48	45	36	45	43	41	32	26	27	24
10/15/07	28	25	25	27	33	37	28	22	18	15	18	25	36	36	40	42	43	42	47	49	49	48	50	49	24
10/16/07	46	46	37	37	31	33	35	39	45	30	29	26	6	15	31	47	106	96	113	115	133	162	188	173	24
10/17/07	153	145	150	123	119	117	114	123	125	113	100	106	123	114	90	140	159	153	100	65	61	47	39	26	24
10/18/07	10	1	349	331	343	352	342	337	335	333	330	334	334	327	324	320	315	314	315	311	306	311	312	311	24
10/19/07	308	303	304	299	299	302	292	301	292	284	286	288	287	271	274	272	271	231	216	212	197	195	195	202	24
10/20/07	216	217	230	255	287	303	318	321	334	344	341	330	323	335	328	327	327	337	331	330	336	346	324	336	24
10/21/07	326	320	326	341	347	329	325	323	327	321	323	324	326	327	329	329	338	339	320	321	313	302	289	296	24
10/22/07	300	300	295	294	293	295	288	273	245	243	245	255	261	264	276	279	286	270	258	269	280	277	277	272	24
10/23/07	253	251	250	252	245	254	275	290	288	296	310	310	306	318	318	317	332	341	346	1	6	351	356	350	24
10/24/07	356	6	12	36	109	156	165	183	188	179	181	177	181	176	169	171	169	163	160	160	163	170	171	174	24
10/25/07	179	183	179	177	180	180	176	175	182	186	184	180	184	185	179	190	175	150	149	134	107	106	80	56	24
10/26/07	21	40	32	24	23	31	37	36	26	28	24	22	21	23	17	18	17	13	12	4	347	337	330	307	24
10/27/07	294	283	282	266	262	259	262	277	296	320	329	332	327	324	312	309	319	328	346	83	77	89	107	126	24
10/28/07	138	144	147	149	149	151	162	172	184	191	208	216	210	210	212	215	214	211	210	223	238	259	276	290	24
10/29/07	278	288	330	342	335	215	188	170	157	173	175	190	199	192	192	184	180	186	173	176	181	195	204	221	24
10/30/07	235	257	257	260	257	222	188	178	166	161	173	170	181	184	218	269	306	329	330	326	322	324	321	316	24
10/31/07	308	306	304	297	299	293	285	293	291	295	302	302	306	305	293	297	296	283	256	235	230	224	225	216	24

Validated by:	Roger L Thompson	Date:	1/3/08
Analyst:	Denise Hazelman	Date:	1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
Deg
100WD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
10/1/07	75	124	140	149	163	165	169	175	167	163	167	166	175	175	179	175	175	169	166	169	175	182	183	185	24
10/2/07	187	190	206	270	329	330	320	316	312	320	320	308	306	309	309	312	311	315	317	315	292	289	288	266	24
10/3/07	236	233	234	225	206	191	189	190	193	206	217	214	216	230	238	225	220	236	247	146	130	88	351	1	24
10/4/07	17	28	37	12	8	20	39	47	72	74	63	59	56	60	59	64	73	68	60	64	67	68	65	68	24
10/5/07	66	69	68	62	65	68	68	68	72	70	68	63	61	51	53	49	40	31	39	50	56	61	59	80	24
10/6/07	67	63	79	84	96	115	136	145	158	180	208	245	260	266	295	313	325	336	349	1	3	344	340	340	24
10/7/07	341	347	346	341	341	331	342	344	342	352	350	344	333	333	337	347	338	332	9	25	41	34	14	355	24
10/8/07	341	287	240	227	230	221	204	220	252	267	281	268	263	264	274	273	292	280	267	265	283	285	292	295	24
10/9/07	297	305	310	313	322	331	351	333	329	349	347	342	341	344	341	340	341	353	355	347	0	3	11	19	24
10/10/07	32	34	33	34	42	38	42	46	49	39	36	55	55	64	69	78	87	93	96	103	97	102	106	115	24
10/11/07	122	124	132	140	145	145	150	151	153	154	150	146	157	167	167	181	160	136	122	130	131	152	154	148	24
10/12/07	140	173	202	257	283	303	311	337	349	23	94	144	210	220	236	254	273	26	34	84	61	160	197	115	24
10/13/07	95	85	85	76	74	74	78	77	80	76	76	71	51	37	27	32	47	58	55	44	56	70	74	68	24
10/14/07	70	37	25	24	31	49	56	56	47	34	35	45	51	55	55	54	51	42	50	50	50	45	40	42	24
10/15/07	39	34	34	36	41	45	37	32	25	22	24	29	40	42	45	48	49	49	53	54	55	54	55	55	24
10/16/07	52	51	44	44	38	39	41	44	50	36	34	35	10	18	38	53	111	104	119	125	140	168	192	178	24
10/17/07	161	154	153	134	132	127	121	129	131	120	107	112	129	123	109	148	164	165	112	75	68	54	46	34	24
10/18/07	20	9	355	338	347	355	345	340	338	335	334	337	337	330	327	323	318	318	318	314	311	314	316	315	24
10/19/07	312	307	310	304	305	308	299	305	298	291	291	291	291	275	280	276	275	240	231	232	217	205	209	207	24
10/20/07	231	233	242	261	297	316	330	332	341	348	343	333	327	338	332	330	330	339	334	333	338	347	338	346	24
10/21/07	341	337	335	346	352	335	330	328	331	324	326	327	328	330	332	332	340	341	330	333	326	312	305	312	24
10/22/07	317	317	314	309	305	312	313	298	265	250	252	260	264	269	280	283	290	280	270	286	301	297	289	285	24
10/23/07	271	261	268	269	259	276	295	300	296	301	313	313	309	321	321	320	334	345	350	11	14	4	6	2	24
10/24/07	8	25	40	71	115	157	165	184	186	184	188	183	186	182	176	176	174	170	169	171	174	179	181	184	24
10/25/07	189	190	188	188	188	190	186	184	188	191	190	187	188	190	185	195	182	160	163	152	136	138	130	86	24
10/26/07	36	49	42	34	33	38	44	43	34	35	29	27	26	28	22	23	22	19	18	13	360	353	341	317	24
10/27/07	298	291	288	278	276	267	278	292	305	325	333	335	330	326	315	312	323	336	354	87	87	98	117	133	24
10/28/07	144	151	154	157	161	166	175	188	192	196	214	221	215	216	219	222	224	223	225	237	255	270	295	305	24
10/29/07	288	298	337	326	317	221	187	175	161	173	180	195	205	198	197	188	185	189	180	186	191	201	227	255	24
10/30/07	261	268	267	279	275	216	177	165	161	153	171	173	185	190	226	275	312	332	334	330	326	327	325	320	24
10/31/07	312	312	311	307	307	301	296	305	299	300	306	307	310	308	298	300	299	292	267	249	239	232	236	227	24

Validated by:	Roger L Thompson	Date:	1/3/08
Analyst:	Denise Hazelman	Date:	1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
Deg
10sigT

data channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
10/1/07	12.5	10.7	4.4	3.8	2.7	3.7	3.9	6.0	6.5	7.8	7.8	8.2	8.1	8.2	8.1	7.3	7.3	6.5	6.2	6.3	6.1	6.0	6.5	7.6	24	12.5	2.7	6.8
10/2/07	6.5	6.4	12.8	13.6	11.7	8.3	7.7	7.6	8.1	7.9	7.9	9.2	8.8	10.6	9.4	10.1	9.4	7.3	4.8	4.1	2.8	2.6	5.2	4.7	24	13.6	2.6	7.8
10/3/07	3.8	2.6	2.0	4.8	5.7	6.6	5.0	6.4	8.3	9.4	10.2	12.1	13.9	13.5	14.4	12.1	9.6	12.2	44.2	19.3	18.0	19.1	11.3	8.1	24	44.2	2.0	11.4
10/4/07	8.5	7.8	4.8	4.4	5.5	6.1	6.8	9.6	11.4	11.4	10.0	13.2	12.9	12.4	11.2	10.7	9.5	7.8	6.9	7.7	8.0	8.1	7.6	7.8	24	13.2	4.4	8.8
10/5/07	7.8	8.8	8.1	8.2	8.1	8.1	7.9	8.3	8.5	8.6	8.4	8.3	8.2	7.8	8.1	6.9	7.7	7.2	7.5	6.5	6.8	6.5	9.1	11.5	24	11.5	6.5	8.0
10/6/07	8.3	7.7	7.4	7.7	7.8	8.6	7.2	7.1	7.8	8.3	10.7	12.8	10.2	13.6	9.6	7.7	6.5	7.1	6.8	16.6	30.1	10.7	8.5	7.8	24	30.1	6.5	9.9
10/7/07	8.8	10.2	8.6	6.4	6.4	6.3	6.5	6.0	7.0	7.5	7.5	7.9	8.9	8.7	9.5	11.7	12.0	9.8	5.9	4.7	6.0	12.2	25.8	11.4	24	25.8	4.7	9.0
10/8/07	19.3	13.5	4.0	3.7	10.4	11.8	13.6	31.4	8.3	7.7	7.6	9.9	10.5	9.6	9.6	8.2	7.3	5.2	5.1	5.7	6.0	5.2	5.3	4.9	24	31.4	3.7	9.3
10/9/07	5.6	4.6	4.4	4.8	6.6	7.4	22.1	7.7	7.6	7.6	9.2	10.0	10.8	12.9	10.7	9.8	7.7	6.2	6.9	3.7	3.8	5.0	6.1	5.4	24	22.1	3.7	7.8
10/10/07	4.2	3.7	3.6	3.6	3.7	4.6	9.3	11.3	10.8	12.5	16.7	22.6	20.9	18.7	14.9	15.2	12.8	8.2	5.0	10.8	4.5	6.3	6.7	6.7	24	22.6	3.6	9.9
10/11/07	6.6	6.9	7.0	6.7	6.5	6.1	6.5	6.8	7.6	8.2	8.4	9.1	10.7	10.7	12.8	17.2	17.8	9.0	5.6	7.2	10.3	16.4	26.5	39.2	24	39.2	5.6	11.2
10/12/07	26.0	43.7	62.9	12.4	6.5	6.4	4.2	6.9	16.1	51.5	59.1	58.1	56.4	41.6	22.6	32.6	40.0	11.6	52.6	27.6	11.0	13.6	7.2	9.6	24	62.9	4.2	28.3
10/13/07	6.6	7.1	6.5	6.2	7.5	5.7	6.7	7.3	8.2	7.8	8.8	10.2	8.3	9.8	8.7	7.1	7.2	9.1	8.7	7.5	7.0	7.7	8.3	9.5	24	10.2	5.7	7.8
10/14/07	8.8	6.2	7.9	6.7	6.6	7.7	7.7	7.5	7.7	7.4	8.0	7.9	8.0	8.0	8.0	8.2	7.7	7.3	6.6	7.0	7.7	7.5	7.4	6.7	24	8.8	6.2	7.5
10/15/07	7.8	7.3	7.0	7.3	7.1	7.4	7.0	7.0	6.9	7.1	7.7	7.6	8.0	7.7	7.9	7.2	7.0	7.4	7.3	7.3	7.4	7.6	8.3	7.9	24	8.3	6.9	7.4
10/16/07	7.9	7.7	8.3	8.2	8.0	7.5	7.7	7.6	11.4	9.5	12.5	20.1	19.7	12.4	17.1	10.8	15.8	13.6	9.2	7.1	8.4	7.3	9.6	8.4	24	20.1	7.1	10.7
10/17/07	8.5	6.5	8.3	7.8	7.6	7.0	8.0	7.3	7.2	7.6	9.1	9.4	7.5	7.6	16.4	24.8	8.4	8.2	8.7	8.5	7.5	6.9	7.6	7.3	24	24.8	6.5	8.9
10/18/07	6.0	6.2	6.4	6.0	6.9	6.4	6.3	6.4	6.1	5.9	6.0	6.1	6.7	6.4	5.9	5.9	5.7	5.5	5.6	5.8	5.5	5.3	5.5	5.2	24	6.9	5.2	6.0
10/19/07	5.8	5.8	5.2	5.2	5.3	5.3	4.8	5.5	6.7	6.5	7.2	8.5	8.9	12.4	10.2	8.0	6.1	7.4	4.5	4.9	5.4	4.7	6.8	5.8	24	12.4	4.5	6.5
10/20/07	3.5	4.6	5.8	5.6	5.2	4.7	3.7	4.2	5.4	7.3	8.9	8.9	7.6	8.6	5.8	6.1	6.1	5.6	5.8	6.8	12.4	13.0	14.8	5.7	24	14.8	3.5	6.9
10/21/07	6.7	4.9	6.5	6.4	6.3	5.1	5.5	5.6	6.1	5.9	6.6	7.0	7.4	7.5	6.8	6.4	6.4	5.9	5.0	4.5	3.5	3.6	4.6	4.4	24	7.5	3.5	5.8
10/22/07	4.3	4.2	4.5	4.2	4.5	4.8	11.5	7.3	9.0	8.1	10.3	10.0	10.5	9.8	8.4	9.4	8.1	5.3	3.8	3.5	3.3	4.3	4.2	3.9	24	11.5	3.3	6.6
10/23/07	4.0	4.9	4.9	6.1	6.6	5.0	6.5	4.7	5.1	6.4	6.4	6.6	7.2	7.5	7.4	6.6	6.3	5.3	5.4	6.3	31.0	19.4	4.5	4.5	24	31.0	4.0	7.4
10/24/07	5.4	20.9	24.8	9.6	12.2	7.4	3.8	4.8	8.7	7.8	9.3	8.8	10.4	8.9	7.5	8.0	6.7	5.7	5.7	5.9	5.7	6.0	5.6	5.7	24	24.8	3.8	8.6
10/25/07	6.7	8.5	7.1	6.4	6.9	6.7	6.0	6.2	8.0	9.1	9.0	10.7	10.5	10.8	9.9	11.3	7.5	4.1	2.6	16.2	12.1	9.3	13.7	9.1	24	16.2	2.6	8.7
10/26/07	10.7	10.8	6.5	5.9	6.1	7.0	7.3	7.3	7.3	8.2	8.1	8.7	9.3	8.6	7.4	7.3	6.8	7.2	6.7	5.1	5.6	3.6	3.8	4.7	24	10.8	3.6	7.1
10/27/07	4.0	3.4	4.2	7.5	5.0	5.6	5.3	5.4	5.3	6.7	8.8	9.9	12.4	12.6	11.7	15.7	9.2	11.5	11.9	8.0	8.9	8.8	8.7	4.8	24	15.7	3.4	8.1
10/28/07	4.6	5.2	6.2	6.2	6.2	6.2	5.9	6.9	10.8	9.3	10.2	10.5	9.5	9.1	8.9	8.4	7.8	5.5	3.6	4.6	4.1	4.5	4.3	6.5	24	10.8	3.6	6.9
10/29/07	4.6	4.5	3.3	33.7	29.4	7.0	3.4	2.3	7.0	7.5	7.9	9.5	11.3	11.1	10.7	9.8	7.4	5.0	2.8	2.5	6.5	3.9	3.7	2.3	24	33.7	2.3	8.2
10/30/07	3.0	2.2	2.2	6.5	11.4	8.9	4.6	4.0	16.1	13.0	9.2	9.2	8.3	8.4	9.5	7.3	8.0	6.2	5.9	6.7	5.6	5.5	5.6	5.2	24	16.1	2.2	7.2
10/31/07	5.3	5.1	5.2	4.9	6.4	4.8	4.6	4.9	5.8	6.7	8.3	7.8	9.1	10.3	10.3	8.1	5.5	6.7	7.1	2.8	2.6	3.3	4.4	4.3	24	10.3	2.6	6.0
hr max	26.0	43.7	62.9	33.7	29.4	11.8	22.1	31.4	16.1	51.5	59.1	58.1	56.4	41.6	22.6	32.6	40.0	13.6	52.6	27.6	31.0	19.4	26.5	39.2				
hr min	3.0	2.2	2.0	3.6	2.7	3.7	3.4	2.3	5.1	5.9	6.0	6.1	6.7	6.4	5.8	5.9	5.5	4.1	2.6	2.5	2.6	2.6	3.7	2.3				
average	7.5	8.1	8.4	7.4	7.6	6.6	7.0	7.3	8.3	9.6	10.5	11.6	11.6	11.2	10.3	10.5	9.4	7.4	8.9	7.8	8.5	7.9	8.3	7.6				

monthly max hr	monthly min hr	monthly ave hr
62.9	2.0	8.7
10/12/07	10/3/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

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October-07
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data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
10/1/07	4.2	3.1	1.9	1.6	1.6	1.3	1.5	2.7	4.2	5.2	5.4	6.3	5.7	5.7	6.2	5.7	5.7	3.9	3.6	3.5	3.5	3.6	4.5	5.3	24	6.3	1.3	4.0
10/2/07	3.4	3.4	6.6	11.3	9.0	6.2	4.9	5.0	5.7	5.3	5.7	6.9	6.7	8.5	7.2	8.3	7.0	4.7	2.3	1.7	4.4	1.8	2.2	7.2	24	11.3	1.7	5.6
10/3/07	2.1	1.7	1.6	2.9	2.2	2.1	1.7	2.8	5.3	6.1	6.5	8.9	9.8	10.7	11.3	8.2	7.6	9.1	21.9	31.4	5.9	5.5	16.8	6.9	24	31.4	1.6	7.9
10/4/07	6.2	5.1	2.9	3.1	3.1	2.4	3.5	5.1	7.5	8.0	6.9	11.1	10.6	9.0	9.1	8.3	5.8	4.7	3.8	4.7	5.5	5.0	5.7	5.4	24	11.1	2.4	5.9
10/5/07	5.9	6.2	5.4	5.7	5.0	5.7	5.8	5.5	5.9	5.1	5.0	4.6	5.1	4.7	6.2	4.7	5.1	4.7	4.5	3.4	4.2	4.3	6.3	8.0	24	8.0	3.4	5.3
10/6/07	5.4	5.2	4.9	4.7	5.7	5.6	4.7	4.1	5.0	6.2	8.5	10.1	8.9	11.6	8.4	5.9	4.8	5.1	4.6	14.8	26.1	9.3	7.3	6.6	24	26.1	4.1	7.6
10/7/07	8.3	8.8	7.3	5.2	5.0	5.1	5.1	4.9	5.2	4.9	5.6	6.0	6.8	7.2	8.1	10.6	10.9	8.1	3.9	3.1	2.3	5.8	7.2	6.6	24	10.9	2.3	6.3
10/8/07	16.2	37.0	2.7	2.3	2.0	2.3	4.3	4.3	2.7	5.9	6.2	7.9	8.8	9.3	8.9	6.7	6.1	4.0	3.2	2.0	3.3	3.6	3.7	3.6	24	37.0	2.0	6.5
10/9/07	4.0	3.4	3.4	3.4	5.3	5.7	15.0	7.6	6.6	5.5	7.1	8.9	9.2	9.8	9.4	8.7	6.4	6.3	3.4	1.6	1.5	1.7	2.5	4.0	24	15.0	1.5	5.9
10/10/07	1.6	1.5	2.0	1.4	2.1	2.4	4.6	7.1	7.8	10.7	15.2	15.8	16.3	13.6	11.1	11.9	10.0	5.6	2.2	4.5	2.7	1.8	3.7	3.8	24	16.3	1.4	6.6
10/11/07	3.6	4.2	4.5	4.4	4.4	4.0	4.1	4.4	5.3	5.4	5.8	6.7	8.2	7.9	9.8	14.6	14.5	8.0	2.2	2.5	4.7	3.4	4.9	9.4	24	14.6	2.2	6.1
10/12/07	17.1	28.0	3.9	7.7	7.5	2.7	2.3	2.2	5.1	63.1	47.1	58.5	44.2	36.9	15.3	31.4	37.7	10.5	17.0	11.8	7.6	7.1	10.8	6.7	24	63.1	2.2	20.1
10/13/07	3.3	4.3	4.2	4.0	4.0	2.9	3.4	3.9	5.5	4.9	5.4	6.0	5.4	7.2	6.0	4.8	4.1	5.2	5.9	4.7	4.7	5.2	5.9	6.7	24	7.2	2.9	4.9
10/14/07	5.6	4.3	4.8	4.4	4.3	5.0	4.7	4.6	4.8	4.6	5.4	5.5	5.1	5.2	5.4	5.8	5.4	4.6	3.3	3.5	4.0	4.4	4.2	4.0	24	5.8	3.3	4.7
10/15/07	4.7	4.6	4.2	4.4	4.1	4.8	4.8	4.2	4.7	5.1	5.0	5.2	5.4	5.3	5.3	5.1	5.0	5.2	5.1	5.0	4.9	5.1	5.7	5.3	24	5.7	4.1	4.9
10/16/07	5.4	4.9	5.8	5.2	5.8	5.1	4.9	4.8	8.3	7.8	8.8	18.5	15.7	11.1	14.3	10.0	15.0	9.1	7.9	5.1	6.4	5.6	6.6	6.2	24	18.5	4.8	8.3
10/17/07	5.6	4.4	5.0	5.5	5.5	5.8	6.3	5.4	5.7	5.2	5.9	6.5	5.6	5.9	14.8	18.9	4.7	5.7	7.5	5.5	4.9	4.2	4.7	4.8	24	18.9	4.2	6.4
10/18/07	4.6	4.1	4.7	4.8	5.2	4.6	4.8	4.9	4.8	4.6	4.8	5.1	5.5	5.2	4.6	5.0	4.6	4.6	4.8	4.8	4.7	4.7	4.6	4.1	24	5.5	4.1	4.8
10/19/07	4.5	4.7	4.5	4.2	4.6	4.5	3.4	3.9	5.4	5.4	5.7	7.4	7.7	11.0	9.0	7.6	5.6	6.1	3.6	4.3	6.0	1.5	1.2	1.4	24	11.0	1.2	5.1
10/20/07	2.2	2.4	2.1	2.3	2.4	2.4	1.6	2.4	3.4	5.5	6.3	7.6	5.6	7.2	4.5	4.2	4.7	3.6	3.9	4.6	11.2	8.3	6.5	3.8	24	11.2	1.6	4.5
10/21/07	4.0	3.2	5.1	5.0	4.5	4.2	4.6	4.9	4.5	4.8	5.3	5.6	5.8	6.1	5.2	5.2	5.2	4.6	3.5	2.4	3.1	2.7	1.6	1.7	24	6.1	1.6	4.3
10/22/07	2.2	2.8	2.1	3.2	1.4	1.6	7.8	4.3	4.6	5.8	7.1	7.9	8.3	8.3	7.2	8.7	7.3	4.8	3.3	3.3	1.4	2.1	3.1	4.7	24	8.7	1.4	4.7
10/23/07	3.5	2.4	3.2	2.6	2.1	2.2	4.2	2.8	4.1	5.6	5.2	5.7	6.5	6.0	6.2	5.1	5.3	3.2	3.1	3.7	14.7	8.9	1.6	1.9	24	14.7	1.6	4.6
10/24/07	1.9	2.8	5.6	5.7	6.3	3.7	2.3	2.2	4.4	6.1	7.4	6.2	8.7	6.3	5.3	5.3	4.3	2.8	2.0	2.4	2.0	2.7	2.8	2.9	24	8.7	1.9	4.3
10/25/07	4.1	6.4	4.8	3.2	4.0	3.6	3.0	3.5	5.5	6.6	7.0	8.1	7.9	8.2	7.4	9.0	5.2	3.1	2.3	4.0	4.6	3.5	9.5	6.0	24	9.5	2.3	5.4
10/26/07	7.3	7.0	3.3	2.8	3.0	4.1	4.3	4.6	4.8	5.4	5.4	6.2	6.9	5.8	5.2	5.2	4.6	5.0	5.0	2.7	3.2	2.2	1.9	1.7	24	7.3	1.7	4.5
10/27/07	1.5	1.2	1.1	3.2	1.9	1.8	2.9	3.1	4.1	5.1	6.8	8.2	10.2	11.3	10.1	13.3	7.9	8.0	12.5	5.2	4.0	3.1	3.4	1.8	24	13.3	1.1	5.5
10/28/07	1.1	1.2	2.4	2.9	2.8	3.0	2.8	3.6	7.5	7.2	6.7	6.9	6.1	5.9	5.7	4.6	2.9	1.7	1.5	1.6	1.7	2.0	4.2	3.4	24	7.5	1.1	3.7
10/29/07	1.9	3.2	3.3	2.9	7.4	12.2	2.9	5.1	1.8	5.0	5.1	6.7	8.0	7.8	8.6	7.3	4.3	2.2	1.5	1.3	1.7	2.2	2.0	1.7	24	12.2	1.3	4.4
10/30/07	3.4	3.2	3.4	7.0	4.6	7.0	4.1	2.6	2.8	3.5	6.6	6.2	6.0	6.5	6.3	6.4	7.0	5.0	4.7	5.2	4.5	4.3	4.7	4.4	24	7.0	2.6	5.0
10/31/07	4.9	4.5	4.5	3.6	4.9	3.1	2.5	3.1	5.1	5.2	6.5	6.5	7.9	8.6	9.1	6.9	4.6	4.4	4.5	4.6	2.2	1.7	1.4	1.9	24	9.1	1.4	4.7
hr max	17.1	37.0	7.3	11.3	9.0	12.2	15.0	7.6	8.3	63.1	47.1	58.5	44.2	36.9	15.3	31.4	37.7	10.5	21.9	31.4	26.1	9.3	16.8	9.4				
hr min	1.1	1.2	1.1	1.4	1.4	1.3	1.5	2.2	1.8	3.5	4.8	4.6	5.1	4.7	4.5	4.2	2.9	1.7	1.5	1.3	1.4	1.5	1.2	1.4				
average	4.8	5.8	3.9	4.2	4.2	4.1	4.3	4.2	5.1	7.6	7.8	9.3	9.0	8.8	8.1	8.5	7.4	5.3	5.1	5.1	5.2	4.1	4.9	4.6				

monthly	monthly	monthly
max hr	min hr	ave hr
63.1	1.1	5.9
10/12/07	10/27/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
Deg
100sT

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
10/1/07	5.1	3.3	1.8	1.3	1.4	1.1	1.7	1.1	2.6	4.8	5.1	5.4	5.0	5.4	5.6	5.3	5.3	2.8	2.3	2.4	2.2	3.1	3.7	3.8	24	5.6	1.1	3.4
10/2/07	3.3	2.5	6.1	9.8	7.9	5.0	4.2	4.0	4.8	4.8	4.9	5.8	6.1	7.1	5.9	7.2	5.8	3.8	1.4	1.3	3.3	1.2	1.9	3.2	24	9.8	1.2	4.6
10/3/07	2.7	1.1	1.1	1.3	2.3	2.4	1.9	2.2	3.0	5.0	6.3	7.3	8.7	9.4	10.1	7.5	7.8	5.9	9.8	16.3	5.9	9.3	15.4	6.7	24	16.3	1.1	6.2
10/4/07	4.8	4.4	2.7	3.7	2.7	2.9	3.0	3.2	3.7	6.4	5.6	9.1	9.9	8.0	8.0	7.1	4.5	3.9	2.4	3.3	4.0	4.1	5.3	4.8	24	9.9	2.4	4.9
10/5/07	5.5	5.2	4.4	5.5	4.5	5.3	5.2	5.1	5.0	4.1	3.8	4.4	5.1	4.3	6.7	4.2	5.0	3.5	3.2	2.8	3.5	3.8	5.4	6.1	24	6.7	2.8	4.7
10/6/07	4.8	4.2	4.5	4.0	4.7	4.5	2.5	2.3	3.5	5.5	7.7	8.5	8.5	10.5	7.7	4.8	3.8	4.2	4.2	14.6	23.3	9.5	6.2	6.0	24	23.3	2.3	6.7
10/7/07	7.5	7.8	6.9	4.6	4.4	4.2	4.0	4.0	4.6	5.2	5.3	5.1	5.7	6.1	8.2	9.4	9.3	8.1	4.2	3.0	2.3	6.4	7.6	5.9	24	9.4	2.3	5.8
10/8/07	16.8	20.4	5.5	5.0	1.9	2.5	3.1	3.8	4.1	5.5	5.5	6.9	7.8	9.2	8.2	6.5	5.3	3.2	2.7	2.0	2.3	2.0	2.2	2.1	24	20.4	1.9	5.6
10/9/07	2.5	2.8	2.2	1.8	3.8	4.0	13.3	6.0	6.4	6.2	6.3	7.9	7.7	8.9	8.7	8.4	5.9	6.0	5.2	1.3	4.2	1.3	2.1	2.6	24	13.3	1.3	5.2
10/10/07	1.4	0.9	1.6	1.5	1.1	1.2	4.1	5.2	6.9	9.0	15.0	12.8	15.5	11.3	9.9	10.7	8.0	4.8	2.0	2.2	1.6	0.6	2.1	2.5	24	15.5	0.6	5.5
10/11/07	2.1	2.5	3.0	2.5	3.1	2.5	3.0	3.3	4.6	4.9	4.9	5.8	7.7	7.5	9.5	12.8	12.2	7.9	2.9	1.5	2.4	2.3	1.5	2.2	24	12.8	1.5	4.7
10/12/07	5.5	8.9	8.1	5.6	3.3	3.0	2.6	2.0	3.7	45.7	55.7	54.0	25.8	31.2	17.0	25.8	40.9	9.9	14.5	9.1	6.4	16.1	7.3	29.5	24	55.7	2.0	18.0
10/13/07	2.6	2.8	2.4	2.8	2.4	1.7	2.0	2.4	4.7	4.4	4.8	5.4	5.4	5.6	5.1	3.7	3.1	4.2	4.3	3.0	3.6	4.6	5.4	5.9	24	5.9	1.7	3.8
10/14/07	5.8	4.9	3.4	3.5	3.9	4.0	3.5	3.6	3.8	3.2	4.8	4.7	4.4	4.7	4.7	5.0	4.6	3.7	2.4	2.6	2.3	3.1	3.5	3.5	24	5.8	2.3	3.9
10/15/07	3.8	3.4	3.5	3.7	3.0	3.4	3.7	3.5	3.7	4.6	4.9	4.2	4.7	4.6	4.4	4.6	4.3	4.5	4.4	4.4	4.0	4.2	4.9	4.5	24	4.9	3.0	4.1
10/16/07	4.3	4.4	4.8	3.9	5.2	3.8	4.1	4.0	6.8	6.9	6.7	15.5	13.9	10.0	12.9	8.2	13.2	6.2	5.9	3.8	5.2	5.1	4.6	6.1	24	15.5	3.8	6.9
10/17/07	3.9	4.3	4.4	4.0	3.5	4.5	4.7	3.6	4.5	4.4	4.8	5.1	4.6	5.5	12.1	13.2	3.4	3.4	7.3	4.2	3.8	3.5	3.3	3.8	24	13.2	3.3	5.0
10/18/07	3.8	4.1	5.5	4.3	4.7	5.5	4.1	4.3	4.1	4.0	4.2	4.4	4.6	4.5	4.1	4.4	4.4	3.9	4.1	4.0	4.1	4.0	4.2	3.6	24	5.5	3.6	4.3
10/19/07	4.1	4.2	4.2	3.4	3.7	3.5	2.7	2.3	4.1	4.7	5.1	6.0	7.1	10.3	8.2	7.7	5.4	5.9	4.4	3.9	7.9	2.3	1.3	1.4	24	10.3	1.3	4.7
10/20/07	2.8	3.3	2.1	2.2	2.8	2.8	1.5	1.5	1.6	5.3	6.4	6.9	4.9	6.4	3.8	3.1	3.6	2.2	2.7	3.5	10.9	7.0	4.3	3.3	24	10.9	1.5	4.0
10/21/07	2.2	2.4	3.8	4.2	4.1	3.3	3.5	4.0	4.4	4.4	4.7	4.9	4.8	5.5	4.4	4.3	4.3	3.6	3.1	1.9	2.1	1.4	3.3	2.6	24	5.5	1.4	3.6
10/22/07	2.3	1.6	1.8	3.3	1.7	1.6	3.6	3.0	5.8	5.0	6.6	7.2	7.7	8.1	6.4	7.7	6.2	3.9	3.4	3.3	1.4	1.8	1.9	1.4	24	8.1	1.4	4.0
10/23/07	3.1	3.5	4.8	2.9	2.6	2.2	2.2	1.1	2.4	4.8	4.5	4.8	5.8	5.1	5.4	4.3	4.6	2.4	1.7	3.2	5.7	6.5	1.7	5.8	24	6.5	1.1	3.8
10/24/07	1.9	1.9	2.9	4.9	3.6	4.6	2.4	2.5	2.6	5.9	6.6	5.9	7.5	5.8	5.3	4.3	3.3	1.2	0.8	0.9	1.1	2.2	2.2	2.1	24	7.5	0.8	3.4
10/25/07	3.4	4.5	3.6	2.4	2.4	2.0	1.8	1.9	4.0	4.8	5.8	7.3	6.1	6.8	6.5	7.9	4.5	2.2	3.0	3.3	2.7	2.6	4.0	7.7	24	7.9	1.8	4.2
10/26/07	9.3	4.0	2.2	2.1	2.4	2.9	3.2	3.5	4.5	4.7	4.8	5.2	5.9	5.1	4.6	4.3	3.6	4.2	4.3	2.2	2.4	1.8	1.7	2.3	24	9.3	1.7	3.8
10/27/07	1.2	1.1	0.8	2.2	1.8	2.0	1.9	1.8	3.4	4.8	5.4	6.9	8.6	9.9	8.3	11.1	7.7	8.3	15.4	3.7	3.5	2.6	4.3	1.8	24	15.4	0.8	4.9
10/28/07	1.0	0.7	0.6	0.9	1.1	2.0	1.2	2.4	3.9	5.5	6.4	6.2	5.0	5.0	4.9	3.7	1.9	1.3	1.1	1.8	1.6	3.0	3.6	2.7	24	6.4	0.6	2.8
10/29/07	2.3	4.5	2.7	3.1	8.5	11.4	2.4	2.7	1.3	2.3	4.4	5.7	6.8	6.8	7.5	5.7	3.3	2.2	1.8	2.0	2.0	2.9	2.7	3.1	24	11.4	1.3	4.1
10/30/07	2.6	2.6	2.9	3.7	5.7	10.4	5.0	2.9	2.9	2.7	4.5	5.5	5.0	4.9	5.0	5.5	6.0	4.2	3.9	4.3	3.8	3.4	3.9	3.9	24	10.4	2.6	4.4
10/31/07	3.8	3.5	3.2	2.7	4.0	1.9	1.2	1.6	3.8	4.9	5.9	6.2	7.1	7.7	8.6	5.9	4.1	1.9	3.4	3.3	1.8	1.7	1.5	1.9	24	8.6	1.2	3.8
hr max	16.8	20.4	8.1	9.8	8.5	11.4	13.3	6.0	6.9	45.7	55.7	54.0	25.8	31.2	17.0	25.8	40.9	9.9	15.4	16.3	23.3	16.1	15.4	29.5				
hr min	1.0	0.7	0.6	0.9	1.1	1.1	1.2	1.1	1.3	2.3	3.8	4.2	4.4	4.3	3.8	3.1	1.9	1.2	0.8	0.9	1.1	0.6	1.3	1.4				
average	4.1	4.1	3.5	3.4	3.5	3.6	3.3	3.1	4.0	6.3	7.3	8.1	7.5	7.8	7.3	7.2	6.6	4.3	4.3	3.8	4.2	4.0	4.0	4.6				

monthly	monthly	monthly
max hr	*min hr*	*ave hr*
55.7	0.6	5.0
10/12/07	10/10/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
mps
10VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
10/1/07	0.09	0.05	0.02	0.10	0.13	0.14	0.12	0.17	0.31	0.41	0.53	0.51	0.46	0.49	0.43	0.46	0.46	0.42	0.41	0.36	0.28	0.22	0.27	0.25	24	0.53	0.02	0.30
10/2/07	0.20	0.27	0.26	0.35	0.69	0.72	0.67	0.85	0.99	1.04	0.69	0.86	0.86	0.83	0.79	0.84	0.69	0.47	0.23	0.25	0.15	0.26	0.18	0.16	24	1.04	0.15	0.55
10/3/07	0.20	0.16	0.17	0.15	0.16	0.16	0.20	0.16	0.20	0.20	0.25	0.20	0.21	0.21	0.29	0.23	0.20	0.16	0.13	0.12	0.11	0.12	0.31	0.52	24	0.52	0.11	0.20
10/4/07	0.35	0.32	0.33	0.39	0.32	0.26	0.31	0.19	0.24	0.28	0.29	0.37	0.37	0.41	0.41	0.50	0.41	0.38	0.32	0.37	0.34	0.36	0.35	0.34	24	0.50	0.19	0.34
10/5/07	0.39	0.43	0.44	0.40	0.41	0.39	0.38	0.40	0.45	0.42	0.33	0.30	0.31	0.28	0.29	0.25	0.31	0.27	0.32	0.25	0.28	0.28	0.32	0.28	24	0.45	0.25	0.34
10/6/07	0.27	0.29	0.33	0.31	0.25	0.24	0.30	0.29	0.29	0.21	0.24	0.31	0.47	0.33	0.70	0.81	0.96	0.94	0.86	0.73	0.55	0.71	0.83	0.95	24	0.96	0.21	0.51
10/7/07	0.82	0.72	0.70	0.71	0.61	0.62	0.62	0.55	0.60	0.54	0.62	0.64	0.54	0.44	0.47	0.39	0.33	0.34	0.29	0.21	0.15	0.18	0.15	0.21	24	0.82	0.15	0.48
10/8/07	0.16	0.13	0.14	0.15	0.17	0.12	0.12	0.16	0.21	0.33	0.46	0.54	0.61	0.60	0.86	0.75	0.77	0.49	0.26	0.24	0.45	0.65	0.73	0.67	24	0.86	0.12	0.41
10/9/07	0.58	0.68	0.79	0.72	0.50	0.45	0.23	0.33	0.52	0.52	0.60	0.54	0.54	0.52	0.49	0.50	0.48	0.38	0.23	0.37	0.34	0.30	0.30	0.28	24	0.79	0.23	0.47
10/10/07	0.23	0.23	0.33	0.33	0.29	0.25	0.18	0.25	0.26	0.29	0.26	0.19	0.27	0.26	0.18	0.24	0.24	0.22	0.16	0.14	0.13	0.19	0.20	0.22	24	0.33	0.13	0.23
10/11/07	0.22	0.26	0.26	0.28	0.30	0.36	0.37	0.46	0.49	0.47	0.42	0.54	0.54	0.34	0.33	0.18	0.22	0.20	0.19	0.16	0.14	0.11	0.11	0.16	24	0.54	0.11	0.30
10/12/07	0.14	0.14	0.12	0.14	0.23	0.24	0.26	0.21	0.17	0.19	0.16	0.19	0.13	0.10	0.17	0.14	0.11	0.14	0.12	0.13	0.14	0.13	0.13	0.11	24	0.26	0.10	0.16
10/13/07	0.12	0.14	0.14	0.18	0.16	0.16	0.15	0.21	0.26	0.21	0.23	0.21	0.19	0.28	0.22	0.21	0.17	0.18	0.23	0.28	0.27	0.23	0.21	0.23	24	0.28	0.12	0.20
10/14/07	0.22	0.28	0.28	0.28	0.29	0.29	0.29	0.26	0.28	0.31	0.36	0.37	0.40	0.42	0.39	0.42	0.38	0.36	0.23	0.23	0.23	0.23	0.27	0.29	24	0.42	0.22	0.31
10/15/07	0.32	0.34	0.38	0.35	0.30	0.36	0.34	0.36	0.40	0.49	0.52	0.54	0.46	0.49	0.45	0.47	0.50	0.51	0.51	0.48	0.42	0.39	0.41	0.37	24	0.54	0.30	0.42
10/16/07	0.41	0.35	0.33	0.31	0.30	0.30	0.33	0.29	0.28	0.19	0.27	0.21	0.20	0.20	0.24	0.20	0.15	0.15	0.16	0.16	0.17	0.14	0.15	0.16	24	0.41	0.14	0.24
10/17/07	0.18	0.19	0.22	0.23	0.23	0.30	0.31	0.42	0.42	0.39	0.39	0.34	0.36	0.31	0.22	0.42	0.36	0.29	0.31	0.30	0.29	0.36	0.37	0.40	24	0.42	0.18	0.32
10/18/07	0.35	0.41	0.45	0.49	0.53	0.61	0.71	0.81	0.94	1.04	1.05	1.09	1.24	1.22	1.32	1.24	1.27	1.16	1.18	1.14	1.15	1.17	1.19	1.15	24	1.32	0.35	0.95
10/19/07	1.18	1.14	1.02	0.83	0.79	0.86	0.82	0.63	0.75	0.71	0.75	0.72	0.75	0.66	0.65	0.64	0.52	0.19	0.12	0.08	0.09	0.11	0.10	0.12	24	1.18	0.08	0.59
10/20/07	0.16	0.14	0.17	0.29	0.47	0.52	0.49	0.51	0.48	0.52	0.58	0.70	0.80	0.57	0.59	0.66	0.55	0.42	0.49	0.78	0.56	0.27	0.22	0.33	24	0.80	0.14	0.47
10/21/07	0.36	0.43	0.55	0.54	0.55	0.53	0.57	0.61	0.74	0.92	0.98	1.12	1.20	1.17	1.14	1.09	0.82	0.57	0.44	0.45	0.39	0.38	0.40	0.41	24	1.20	0.36	0.68
10/22/07	0.41	0.45	0.39	0.43	0.46	0.49	0.33	0.27	0.25	0.36	0.42	0.43	0.53	0.57	0.76	0.64	0.60	0.26	0.29	0.33	0.36	0.30	0.32	0.33	24	0.76	0.25	0.42
10/23/07	0.27	0.33	0.30	0.28	0.32	0.26	0.32	0.55	0.72	0.93	1.12	1.14	1.17	1.26	1.23	1.23	0.88	0.68	0.66	0.41	0.16	0.31	0.38	0.37	24	1.26	0.16	0.64
10/24/07	0.40	0.23	0.13	0.13	0.11	0.17	0.17	0.11	0.14	0.22	0.20	0.21	0.23	0.26	0.26	0.23	0.25	0.25	0.28	0.27	0.24	0.20	0.18	0.17	24	0.40	0.11	0.21
10/25/07	0.19	0.28	0.20	0.23	0.28	0.28	0.24	0.21	0.34	0.37	0.26	0.28	0.23	0.32	0.22	0.24	0.19	0.16	0.14	0.18	0.14	0.16	0.17	0.19	24	0.37	0.14	0.23
10/26/07	0.28	0.25	0.41	0.38	0.40	0.48	0.56	0.58	0.53	0.69	0.78	0.91	1.02	1.05	0.96	0.85	0.60	0.49	0.38	0.34	0.31	0.32	0.30	0.31	24	1.05	0.25	0.55
10/27/07	0.32	0.40	0.36	0.27	0.24	0.28	0.38	0.43	0.57	0.65	0.60	0.58	0.52	0.50	0.49	0.45	0.35	0.18	0.18	0.12	0.12	0.13	0.18	0.16	24	0.65	0.12	0.35
10/28/07	0.16	0.20	0.22	0.25	0.24	0.27	0.17	0.15	0.18	0.25	0.25	0.26	0.23	0.24	0.22	0.21	0.19	0.17	0.14	0.19	0.28	0.29	0.34	0.40	24	0.40	0.14	0.23
10/29/07	0.34	0.39	0.34	0.15	0.11	0.12	0.12	0.17	0.17	0.15	0.18	0.21	0.22	0.22	0.23	0.19	0.15	0.17	0.13	0.07	0.12	0.14	0.12	0.12	24	0.39	0.07	0.18
10/30/07	0.15	0.12	0.26	0.28	0.24	0.12	0.13	0.17	0.16	0.12	0.16	0.21	0.19	0.23	0.28	0.72	0.98	1.48	1.57	1.39	1.10	0.90	0.97	0.91	24	1.57	0.12	0.54
10/31/07	0.82	0.77	0.69	0.61	0.65	0.63	0.59	0.67	0.63	0.76	0.80	0.80	0.89	0.78	0.72	0.74	0.50	0.28	0.18	0.15	0.13	0.14	0.11	0.05	24	0.89	0.05	0.55
hr max	1.18	1.14	1.02	0.83	0.79	0.86	0.82	0.85	0.99	1.04	1.12	1.14	1.24	1.26	1.32	1.24	1.27	1.48	1.57	1.39	1.15	1.17	1.19	1.15				
hr min	0.09	0.05	0.02	0.10	0.11	0.12	0.12	0.11	0.14	0.12	0.16	0.19	0.13	0.10	0.17	0.14	0.11	0.14	0.12	0.07	0.09	0.11	0.10	0.05				
average	0.33	0.34	0.35	0.34	0.35	0.35	0.35	0.37	0.42	0.46	0.48	0.50	0.52	0.50	0.52	0.52	0.47	0.40	0.36	0.34	0.31	0.31	0.33	0.34				

monthly max hr	monthly min hr	monthly ave hr
1.57	0.02	0.40
10/30/07	10/1/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
mps
50VWS

data channel mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
10/1/07	0.02	0.02	0.02	0.02	0.02	0.02	0.45	0.60	0.53	0.50	0.59	0.69	0.61	0.64	0.45	0.67	0.67	0.71	0.74	0.69	0.68	0.40	0.18	0.18	24	0.74	0.02	0.42
10/2/07	0.03	0.03	0.32	0.45	0.37	0.50	0.53	0.63	0.62	0.68	0.49	0.59	0.69	0.64	0.36	0.59	0.55	0.35	0.25	0.24	0.26	0.08	0.18	0.31	24	0.82	0.03	0.41
10/3/07	0.54	0.63	0.66	0.62	0.57	0.44	-0.05	0.11	0.24	0.33	0.23	0.18	0.19	0.18	0.27	0.14	0.24	0.10	0.05	0.05	0.20	0.07	0.22	0.41	24	0.66	-0.05	0.28
10/4/07	0.30	0.27	0.29	0.32	0.36	0.36	0.49	0.21	0.12	0.28	0.08	0.27	0.13	0.28	0.28	0.55	0.31	0.38	0.39	0.36	0.38	0.32	0.33	0.32	24	0.55	0.08	0.31
10/5/07	0.35	0.32	0.44	0.33	0.32	0.33	0.32	0.30	0.37	0.41	0.25	0.22	0.22	0.08	0.15	0.10	0.18	0.19	0.19	0.15	0.18	0.16	0.24	0.24	24	0.44	0.08	0.25
10/6/07	0.20	0.19	0.31	0.28	0.20	0.25	0.49	0.52	0.41	0.20	0.33	0.17	0.19	0.05	0.35	0.39	0.60	0.64	0.66	0.52	0.33	0.47	0.51	0.56	24	0.66	0.05	0.37
10/7/07	0.51	0.39	0.52	0.41	0.35	0.34	0.32	0.30	0.26	0.33	0.31	0.24	0.29	0.17	0.12	0.20	0.19	0.14	0.24	0.22	0.06	0.09	0.03	0.03	24	0.52	0.03	0.25
10/8/07	0.03	0.02	0.02	0.02	0.16	0.28	0.13	0.18	0.04	0.19	0.23	0.27	0.39	0.40	0.63	0.56	0.42	0.37	0.52	0.69	0.74	0.77	0.71	0.69	24	0.77	0.02	0.35
10/9/07	0.59	0.54	0.67	0.65	0.40	0.36	0.20	0.12	0.24	0.24	0.54	0.29	0.33	0.29	0.15	0.36	0.27	0.24	0.16	0.40	0.38	0.40	0.34	0.25	24	0.67	0.12	0.35
10/10/07	0.24	0.19	0.19	0.39	0.36	0.26	0.28	0.17	0.15	0.19	0.12	0.04	0.24	0.21	0.02	0.27	0.17	0.21	0.36	0.34	0.28	0.39	0.25	0.34	24	0.39	0.02	0.24
10/11/07	0.40	0.38	0.41	0.45	0.49	0.60	0.62	0.69	0.64	0.51	0.54	0.64	0.57	0.38	0.40	0.13	0.17	0.25	0.40	0.41	0.15	0.19	0.18	0.12	24	0.69	0.12	0.41
10/12/07	0.07	0.08	0.08	0.19	0.31	0.23	0.11	0.03	0.16	0.20	0.27	0.22	0.10	-0.02	0.02	0.06	0.01	0.06	0.03	0.03	0.09	0.03	0.00	0.07	24	0.31	-0.02	0.10
10/13/07	0.13	0.07	0.14	0.17	0.08	0.10	0.12	0.15	0.18	0.10	0.20	0.22	0.06	0.23	0.17	0.09	0.11	0.10	0.15	0.21	0.15	0.22	0.13	0.16	24	0.23	0.06	0.14
10/14/07	0.10	0.19	0.21	0.20	0.19	0.19	0.23	0.20	0.20	0.23	0.30	0.23	0.35	0.29	0.35	0.45	0.32	0.31	0.25	0.19	0.17	0.16	0.22	0.20	24	0.45	0.10	0.24
10/15/07	0.26	0.26	0.27	0.22	0.26	0.25	0.28	0.30	0.31	0.32	0.35	0.39	0.36	0.30	0.30	0.35	0.42	0.44	0.47	0.45	0.38	0.35	0.32	0.24	24	0.47	0.22	0.33
10/16/07	0.34	0.24	0.21	0.18	0.14	0.16	0.21	0.16	0.18	0.09	0.12	0.16	0.07	-0.01	0.20	0.09	0.07	0.09	0.14	0.11	0.18	0.14	0.11	0.10	24	0.34	-0.01	0.15
10/17/07	0.17	0.22	0.24	0.22	0.26	0.34	0.36	0.51	0.51	0.46	0.41	0.38	0.34	0.32	0.24	0.73	0.67	0.53	0.37	0.22	0.25	0.24	0.23	0.25	24	0.73	0.17	0.35
10/18/07	0.27	0.24	0.30	0.24	0.33	0.45	0.44	0.49	0.58	0.62	0.62	0.68	0.80	0.76	0.74	0.75	0.76	0.76	0.74	0.77	0.77	0.78	0.79	0.77	24	0.80	0.24	0.60
10/19/07	0.69	0.67	0.63	0.57	0.53	0.61	0.69	0.41	0.52	0.43	0.35	0.50	0.38	0.34	0.30	0.40	0.34	0.40	0.37	0.39	0.15	-0.19	0.66	0.72	24	0.72	-0.19	0.45
10/20/07	0.61	0.65	0.76	0.74	0.70	0.59	0.57	0.53	0.28	0.32	0.38	0.27	0.34	0.24	0.25	0.27	0.31	0.24	0.32	0.56	0.28	0.17	0.13	0.22	24	0.76	0.13	0.41
10/21/07	0.30	0.36	0.35	0.34	0.34	0.29	0.35	0.35	0.36	0.49	0.56	0.68	0.52	0.74	0.66	0.68	0.48	0.33	0.45	0.50	0.44	0.44	0.55	0.54	24	0.74	0.29	0.46
10/22/07	0.50	0.53	0.53	0.53	0.63	0.67	0.42	0.34	0.15	0.38	0.34	0.18	0.24	0.26	0.39	0.37	0.34	0.27	0.40	0.48	0.37	0.28	0.16	0.29	24	0.67	0.15	0.38
10/23/07	0.44	0.16	0.40	0.63	0.70	0.65	0.55	0.61	0.57	0.51	0.53	0.60	0.67	0.68	0.75	0.73	0.63	0.60	0.62	0.41	0.15	0.15	0.32	0.31	24	0.75	0.15	0.52
10/24/07	0.17	0.20	0.08	0.02	0.03	0.03	0.01	0.05	0.26	0.06	0.19	0.09	0.19	0.13	0.31	0.29	0.46	0.58	0.78	0.75	0.77	0.67	0.60	0.31	24	0.78	0.01	0.29
10/25/07	0.13	0.23	0.14	0.18	0.07	0.03	0.19	0.43	0.19	0.31	0.17	0.23	0.07	0.11	0.09	0.18	0.15	0.43	0.55	0.49	0.23	0.32	0.11	0.09	24	0.55	0.03	0.21
10/26/07	0.30	0.31	0.37	0.35	0.40	0.41	0.51	0.55	0.36	0.44	0.59	0.70	0.81	0.76	0.83	0.73	0.52	0.34	0.25	0.24	0.24	0.29	0.09	0.01	24	0.83	0.01	0.43
10/27/07	0.02	0.06	0.18	0.49	0.51	0.59	0.50	0.51	0.34	0.31	0.21	0.23	0.16	0.07	0.19	0.22	0.25	0.12	0.05	0.07	0.03	0.02	0.48	0.60	24	0.60	0.02	0.26
10/28/07	0.67	0.73	0.71	0.70	0.63	0.62	0.47	0.33	0.13	0.30	0.32	0.35	0.32	0.33	0.34	0.36	0.43	0.51	0.48	0.61	0.73	0.50	0.33	0.29	24	0.73	0.13	0.47
10/29/07	0.27	0.19	0.14	-0.01	0.03	0.06	0.05	0.05	0.26	0.11	0.01	0.18	0.31	0.19	0.23	0.10	0.06	0.16	0.28	0.13	-0.05	0.34	0.36	0.41	24	0.41	-0.05	0.16
10/30/07	0.42	0.37	0.34	0.16	0.29	0.13	0.11	0.03	0.30	0.28	0.12	0.21	0.14	0.13	0.49	0.52	0.64	1.11	1.04	0.96	0.69	0.56	0.61	0.60	24	1.11	0.03	0.43
10/31/07	0.52	0.57	0.52	0.50	0.51	0.59	0.69	0.73	0.45	0.45	0.42	0.37	0.49	0.36	0.50	0.32	0.30	0.13	0.20	0.34	0.23	0.52	0.76	0.65	24	0.76	0.13	0.46
hr max	0.69	0.73	0.76	0.74	0.70	0.67	0.69	0.73	0.82	0.68	0.62	0.70	0.81	0.76	0.83	0.75	0.76	1.11	1.04	0.96	0.77	0.78	0.79	0.77				
hr min	0.02	0.02	0.02	-0.01	0.02	0.02	-0.05	0.03	0.04	0.06	0.01	0.04	0.06	-0.02	0.02	0.06	0.01	0.06	0.03	0.03	-0.05	-0.19	0.00	0.01				
average	0.31	0.30	0.34	0.34	0.34	0.35	0.34	0.34	0.33	0.33	0.33	0.34	0.34	0.31	0.34	0.38	0.36	0.36	0.38	0.39	0.32	0.30	0.33	0.33				

monthly max hr	*monthly* min hr	*monthly* ave hr
1.11	-0.19	0.34
10/30/07	10/19/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
mps
100VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
10/1/07	0.01	0.00	0.00	0.00	0.13	0.22	0.26	-0.53	0.36	0.08	0.13	0.21	-0.58	-0.41	-0.81	-0.39	-0.39	0.22	0.38	0.50	-0.47	-1.77	-1.35	-0.94	24	0.50	-1.77	-0.21
10/2/07	-0.21	0.36	0.39	0.46	0.48	0.75	0.76	0.75	0.91	0.74	0.58	0.54	0.79	0.68	0.23	0.64	0.53	0.42	0.44	0.31	0.22	0.08	0.03	0.03	24	0.91	-0.21	0.45
10/3/07	0.04	0.00	0.00	0.00	0.00	0.34	0.34	0.41	0.21	0.27	0.03	0.04	0.03	0.01	0.28	-0.04	0.18	0.04	0.03	0.01	0.11	0.07	0.41	0.78	24	0.78	-0.04	0.15
10/4/07	0.64	0.54	0.64	0.61	0.63	0.76	0.75	0.66	0.29	0.33	0.04	0.31	0.26	0.28	0.30	0.60	0.35	0.53	0.74	0.66	0.56	0.46	0.43	0.41	24	0.76	0.04	0.49
10/5/07	0.50	0.47	0.55	0.37	0.48	0.38	0.37	0.43	0.36	0.45	0.31	0.23	0.27	0.20	0.20	0.20	0.25	0.27	0.30	0.27	0.27	0.26	0.41	0.34	24	0.55	0.20	0.34
10/6/07	0.26	0.27	0.38	0.33	0.23	0.35	0.71	0.70	0.19	-0.18	0.26	0.12	0.02	0.00	0.33	0.36	0.64	0.81	0.92	0.84	0.48	0.63	0.81	0.84	24	0.92	-0.18	0.43
10/7/07	0.77	0.65	0.69	0.56	0.55	0.49	0.55	0.51	0.42	0.55	0.43	0.33	0.37	0.19	0.19	0.35	0.25	0.13	0.31	0.27	0.27	0.17	0.04	0.08	24	0.77	0.04	0.38
10/8/07	0.04	0.01	0.06	0.03	0.00	0.02	0.03	0.15	0.03	0.05	0.14	0.13	0.29	0.34	0.62	0.46	0.37	0.34	0.37	0.45	0.91	0.94	0.98	0.94	24	0.98	0.00	0.32
10/9/07	0.86	0.67	0.91	1.00	0.71	0.66	0.34	0.18	0.25	0.36	0.68	0.34	0.44	0.46	0.31	0.49	0.44	0.40	0.37	0.59	0.63	0.73	0.77	0.67	24	1.00	0.18	0.55
10/10/07	0.64	0.55	0.03	0.40	0.63	0.28	0.47	0.32	0.20	0.28	0.22	-0.06	0.30	0.29	-0.03	0.33	0.14	0.24	0.41	0.38	0.53	0.68	0.39	0.45	24	0.68	-0.06	0.34
10/11/07	0.44	0.50	0.46	0.46	0.50	0.60	0.43	0.41	0.27	0.16	0.30	0.31	0.16	-0.06	-0.02	-0.08	0.03	0.13	0.38	0.52	0.34	0.02	0.17	-0.01	24	0.60	-0.08	0.27
10/12/07	0.16	-0.02	0.11	0.11	0.20	0.06	0.07	0.32	0.25	0.04	0.30	0.31	0.05	-0.12	-0.07	0.06	0.00	0.14	0.14	0.03	0.15	0.04	0.07	0.04	24	0.32	-0.12	0.10
10/13/07	0.08	0.07	0.25	0.32	0.20	0.22	0.31	0.32	0.26	0.20	0.26	0.27	0.17	0.34	0.27	0.22	0.29	0.23	0.29	0.44	0.31	0.26	0.17	0.23	24	0.44	0.07	0.26
10/14/07	0.15	0.34	0.43	0.37	0.39	0.36	0.40	0.38	0.39	0.49	0.51	0.45	0.52	0.42	0.47	0.64	0.57	0.55	0.50	0.38	0.38	0.39	0.34	0.37	24	0.64	0.15	0.42
10/15/07	0.51	0.48	0.54	0.43	0.49	0.52	0.52	0.55	0.60	0.54	0.57	0.61	0.58	0.52	0.47	0.57	0.65	0.69	0.65	0.66	0.59	0.60	0.51	0.39	24	0.69	0.39	0.55
10/16/07	0.47	0.34	0.33	0.39	0.29	0.30	0.32	0.29	0.25	0.14	0.15	0.22	0.07	0.01	0.31	0.12	0.03	0.05	0.11	0.07	0.13	-0.06	0.15	-0.03	24	0.47	-0.06	0.19
10/17/07	0.04	0.10	0.06	0.28	0.40	0.27	0.39	0.50	0.38	0.35	0.37	0.31	0.24	0.29	0.23	0.34	0.15	0.20	0.33	0.39	0.46	0.41	0.46	0.47	24	0.50	0.04	0.31
10/18/07	0.45	0.49	0.53	0.34	0.57	0.75	0.73	0.79	0.84	0.90	0.81	0.99	1.09	0.96	0.86	0.93	0.87	0.88	0.88	0.88	0.87	0.82	0.86	0.92	24	1.09	0.34	0.79
10/19/07	0.75	0.66	0.69	0.69	0.65	0.78	0.84	0.58	0.63	0.41	0.23	0.52	0.27	0.25	0.18	0.35	0.28	0.17	0.11	0.13	0.10	0.00	0.00	0.00	24	0.84	0.00	0.39
10/20/07	0.01	0.09	0.13	0.00	0.46	0.78	0.88	1.00	0.85	0.56	0.52	0.42	0.38	0.37	0.35	0.37	0.48	0.54	0.64	0.93	0.49	0.36	0.25	0.39	24	1.00	0.00	0.47
10/21/07	0.63	0.62	0.73	0.68	0.73	0.60	0.62	0.56	0.58	0.61	0.57	0.79	0.45	0.81	0.75	0.78	0.76	0.65	0.68	0.74	0.52	0.34	0.53	0.58	24	0.81	0.34	0.64
10/22/07	0.68	0.70	0.73	0.57	0.69	0.73	0.45	0.20	0.14	0.29	0.23	0.13	0.13	0.19	0.27	0.23	0.27	0.20	0.16	0.38	0.37	0.20	0.12	0.00	24	0.73	0.00	0.34
10/23/07	0.00	0.04	0.15	0.00	0.57	0.70	0.77	0.92	0.81	0.56	0.54	0.60	0.73	0.63	0.89	0.78	0.88	1.00	1.11	0.83	0.48	0.34	0.48	0.53	24	1.11	0.00	0.60
10/24/07	0.56	0.47	0.24	0.07	-0.01	0.03	0.04	-0.25	-0.40	-0.48	-0.01	-0.55	-0.18	-0.48	-0.36	-0.46	-0.11	0.35	0.47	0.43	0.09	-1.81	-2.16	-1.72	24	0.56	-2.16	-0.26
10/25/07	0.29	0.72	0.15	0.37	0.22	0.65	-0.99	-1.81	0.15	0.36	0.15	-0.12	-0.32	-0.18	-0.53	0.13	0.06	0.03	0.12	0.25	0.34	0.35	0.20	0.20	24	0.72	-1.81	0.03
10/26/07	0.59	0.70	0.88	0.74	0.74	0.84	0.88	0.96	0.72	0.77	0.84	1.00	1.12	1.00	1.17	1.09	0.81	0.51	0.43	0.49	0.52	0.51	0.27	0.12	24	1.17	0.12	0.74
10/27/07	0.03	0.00	0.00	0.00	0.00	0.00	0.51	0.47	0.43	0.36	0.27	0.25	0.20	0.04	0.27	0.22	0.22	0.18	0.02	0.04	-0.01	0.05	0.34	0.46	24	0.51	-0.01	0.18
10/28/07	0.52	0.40	0.00	0.00	0.02	0.33	-0.37	0.04	0.49	0.37	0.19	0.29	0.15	0.20	0.17	0.21	0.21	0.00	0.21	0.13	0.33	0.20	0.29	0.26	24	0.52	-0.37	0.19
10/29/07	0.17	0.22	0.35	0.15	0.03	0.01	0.03	-0.13	0.06	-0.07	-0.36	0.13	0.36	0.09	0.22	-0.12	-0.25	0.13	-0.70	-0.36	0.44	0.43	0.33	0.02	24	0.44	-0.70	0.05
10/30/07	-0.02	0.00	0.00	0.08	0.12	0.09	-0.09	0.05	0.07	0.19	-0.23	-0.08	-0.22	0.01	0.42	0.48	0.93	1.40	1.35	1.14	0.92	0.76	0.82	0.71	24	1.40	-0.23	0.37
10/31/07	0.62	0.72	0.81	0.67	0.66	0.80	0.84	1.04	0.60	0.40	0.36	0.40	0.42	0.29	0.49	0.31	0.29	0.14	0.03	0.04	0.00	0.06	0.55	0.26	24	1.04	0.00	0.45
hr max	0.86	0.72	0.91	1.00	0.74	0.84	0.88	1.04	0.91	0.90	0.84	1.00	1.12	1.00	1.17	1.09	0.93	1.40	1.35	1.14	0.92	0.94	0.98	0.94				
hr min	-0.21	-0.02	0.00	0.00	-0.01	0.00	-0.99	-1.81	-0.40	-0.48	-0.36	-0.55	-0.58	-0.48	-0.81	-0.46	-0.39	0.00	-0.70	-0.36	-0.47	-1.81	-2.16	-1.72				
average	0.34	0.36	0.36	0.34	0.38	0.44	0.39	0.35	0.37	0.33	0.30	0.30	0.28	0.25	0.27	0.33	0.33	0.37	0.39	0.41	0.37	0.21	0.25	0.25				

monthly	monthly	monthly
max hr	min hr	ave hr
1.40	-2.16	0.33
10/30/07	10/24/07	

Validated by: Roger L. Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
Deg
10SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
10/1/07	0.09	0.11	0.11	0.12	0.10	0.13	0.16	0.36	0.52	0.61	0.70	0.67	0.71	0.73	0.73	0.70	0.70	0.52	0.51	0.50	0.47	0.44	0.47	0.42	24	0.73	0.09	0.44
10/2/07	0.34	0.38	0.26	0.42	0.62	0.64	0.61	0.68	0.78	0.82	0.61	0.69	0.72	0.68	0.63	0.65	0.60	0.41	0.11	0.10	0.08	0.11	0.10	0.10	24	0.82	0.08	0.46
10/3/07	0.14	0.13	0.13	0.12	0.16	0.16	0.16	0.21	0.36	0.38	0.49	0.52	0.50	0.50	0.47	0.40	0.31	0.11	0.08	0.07	0.13	0.09	0.25	0.39	24	0.52	0.07	0.26
10/4/07	0.24	0.11	0.10	0.12	0.11	0.11	0.15	0.15	0.34	0.44	0.52	0.52	0.56	0.59	0.57	0.61	0.62	0.54	0.39	0.50	0.54	0.50	0.46	0.47	24	0.62	0.10	0.39
10/5/07	0.51	0.58	0.60	0.51	0.58	0.55	0.51	0.53	0.60	0.51	0.43	0.38	0.37	0.33	0.31	0.28	0.27	0.25	0.27	0.25	0.29	0.27	0.35	0.34	24	0.60	0.25	0.41
10/6/07	0.31	0.33	0.42	0.42	0.36	0.34	0.40	0.41	0.45	0.45	0.53	0.49	0.49	0.46	0.47	0.46	0.49	0.53	0.57	0.57	0.45	0.40	0.47	0.56	24	0.57	0.31	0.45
10/7/07	0.50	0.51	0.47	0.44	0.42	0.37	0.42	0.39	0.45	0.46	0.45	0.40	0.34	0.33	0.32	0.31	0.22	0.19	0.16	0.10	0.08	0.09	0.08	0.10	24	0.51	0.08	0.32
10/8/07	0.08	0.05	0.06	0.09	0.12	0.06	0.02	0.09	0.17	0.30	0.33	0.47	0.53	0.52	0.54	0.47	0.47	0.28	0.15	0.20	0.29	0.37	0.39	0.34	24	0.54	0.02	0.27
10/9/07	0.32	0.35	0.35	0.35	0.34	0.28	0.21	0.24	0.32	0.43	0.47	0.47	0.49	0.49	0.43	0.39	0.33	0.21	0.10	0.12	0.12	0.12	0.15	0.17	24	0.49	0.10	0.30
10/10/07	0.13	0.10	0.11	0.13	0.13	0.12	0.12	0.32	0.35	0.33	0.35	0.37	0.40	0.47	0.44	0.41	0.37	0.27	0.13	0.11	0.11	0.28	0.32	0.32	24	0.47	0.10	0.26
10/11/07	0.32	0.36	0.37	0.39	0.42	0.48	0.52	0.63	0.65	0.63	0.65	0.69	0.67	0.56	0.51	0.40	0.30	0.16	0.15	0.12	0.10	0.09	0.08	0.10	24	0.69	0.08	0.39
10/12/07	0.10	0.10	0.04	0.08	0.11	0.11	0.10	0.11	0.18	0.34	0.41	0.44	0.34	0.44	0.38	0.23	0.20	0.11	0.06	0.09	0.09	0.08	0.09	0.10	24	0.44	0.04	0.18
10/13/07	0.15	0.19	0.19	0.17	0.11	0.10	0.17	0.29	0.36	0.35	0.34	0.28	0.26	0.32	0.27	0.21	0.13	0.15	0.21	0.28	0.32	0.30	0.21	0.15	24	0.36	0.10	0.23
10/14/07	0.19	0.22	0.23	0.24	0.26	0.31	0.30	0.28	0.29	0.30	0.39	0.44	0.46	0.50	0.47	0.50	0.48	0.36	0.22	0.21	0.17	0.19	0.20	0.25	24	0.50	0.17	0.31
10/15/07	0.32	0.32	0.36	0.36	0.31	0.36	0.32	0.37	0.41	0.44	0.51	0.54	0.48	0.52	0.44	0.53	0.55	0.56	0.58	0.55	0.51	0.48	0.46	0.44	24	0.58	0.31	0.45
10/16/07	0.42	0.34	0.32	0.30	0.32	0.31	0.33	0.28	0.28	0.21	0.29	0.24	0.25	0.26	0.26	0.23	0.16	0.15	0.17	0.16	0.19	0.23	0.28	0.20	24	0.42	0.15	0.26
10/17/07	0.19	0.22	0.30	0.25	0.29	0.38	0.42	0.53	0.48	0.47	0.45	0.44	0.46	0.38	0.30	0.54	0.44	0.30	0.35	0.38	0.43	0.33	0.35	0.37	24	0.54	0.19	0.38
10/18/07	0.30	0.33	0.33	0.25	0.38	0.48	0.51	0.50	0.54	0.56	0.54	0.61	0.70	0.64	0.64	0.59	0.60	0.55	0.59	0.54	0.58	0.57	0.55	0.56	24	0.70	0.25	0.52
10/19/07	0.57	0.56	0.51	0.44	0.42	0.45	0.41	0.29	0.42	0.42	0.41	0.44	0.43	0.51	0.42	0.39	0.29	0.17	0.14	0.12	0.13	0.12	0.18	0.24	24	0.57	0.12	0.35
10/20/07	0.15	0.21	0.28	0.21	0.17	0.17	0.15	0.18	0.25	0.36	0.39	0.40	0.41	0.33	0.27	0.33	0.24	0.21	0.26	0.39	0.39	0.19	0.10	0.11	24	0.41	0.10	0.26
10/21/07	0.15	0.17	0.31	0.37	0.38	0.27	0.30	0.37	0.43	0.49	0.52	0.54	0.56	0.56	0.57	0.56	0.48	0.39	0.16	0.17	0.12	0.14	0.18	0.17	24	0.57	0.12	0.35
10/22/07	0.17	0.19	0.19	0.20	0.21	0.22	0.20	0.21	0.28	0.41	0.43	0.44	0.45	0.50	0.47	0.42	0.37	0.12	0.12	0.13	0.12	0.12	0.13	0.16	24	0.50	0.12	0.26
10/23/07	0.13	0.21	0.21	0.26	0.33	0.21	0.24	0.28	0.42	0.51	0.53	0.52	0.52	0.52	0.55	0.55	0.45	0.36	0.36	0.22	0.16	0.18	0.10	0.11	24	0.55	0.10	0.33
10/24/07	0.11	0.16	0.08	0.05	0.06	0.12	0.13	0.13	0.29	0.43	0.47	0.52	0.53	0.56	0.53	0.56	0.50	0.40	0.40	0.40	0.37	0.38	0.39	0.43	24	0.56	0.05	0.33
10/25/07	0.44	0.45	0.44	0.42	0.48	0.52	0.52	0.55	0.61	0.63	0.55	0.52	0.56	0.56	0.52	0.43	0.28	0.14	0.10	0.14	0.10	0.11	0.12	0.11	24	0.63	0.10	0.39
10/26/07	0.24	0.21	0.39	0.29	0.34	0.53	0.63	0.65	0.56	0.67	0.76	0.79	0.85	0.86	0.76	0.70	0.55	0.39	0.29	0.21	0.16	0.12	0.11	0.15	24	0.86	0.11	0.47
10/27/07	0.12	0.12	0.14	0.17	0.17	0.27	0.30	0.25	0.34	0.38	0.40	0.48	0.48	0.45	0.40	0.41	0.26	0.10	0.09	0.05	0.08	0.13	0.14	0.14	24	0.48	0.05	0.24
10/28/07	0.16	0.26	0.36	0.45	0.41	0.40	0.36	0.32	0.36	0.45	0.53	0.52	0.58	0.56	0.51	0.49	0.35	0.17	0.10	0.13	0.19	0.19	0.12	0.14	24	0.58	0.10	0.34
10/29/07	0.13	0.11	0.10	0.07	0.05	0.10	0.02	0.10	0.17	0.30	0.40	0.46	0.47	0.44	0.43	0.37	0.21	0.13	0.11	0.11	0.11	0.07	0.06	0.00	24	0.47	0.00	0.19
10/30/07	0.07	0.00	0.13	0.12	0.14	0.10	0.10	0.10	0.14	0.17	0.27	0.40	0.43	0.41	0.50	0.51	0.61	0.74	0.70	0.65	0.57	0.44	0.51	0.46	24	0.74	0.00	0.34
10/31/07	0.44	0.43	0.37	0.33	0.38	0.32	0.29	0.38	0.41	0.44	0.46	0.47	0.49	0.53	0.46	0.44	0.32	0.10	0.11	0.09	0.08	0.12	0.11	0.13	24	0.53	0.08	0.32
hr max	0.57	0.58	0.60	0.51	0.62	0.64	0.63	0.68	0.78	0.82	0.76	0.79	0.85	0.86	0.76	0.70	0.70	0.74	0.70	0.65	0.58	0.57	0.55	0.56				
hr min	0.07	0.00	0.04	0.05	0.05	0.06	0.02	0.09	0.14	0.17	0.27	0.24	0.25	0.26	0.26	0.21	0.13	0.10	0.06	0.05	0.08	0.07	0.06	0.00				
average	0.24	0.25	0.27	0.26	0.28	0.29	0.29	0.33	0.39	0.44	0.47	0.49	0.50	0.50	0.47	0.45	0.39	0.29	0.25	0.25	0.24	0.23	0.24	0.25				

monthly max hr	monthly min hr	monthly ave hr
0.86	0.00	0.34
10/26/07	10/29/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	*100.0%*

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
Deg
50SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
10/1/07	0.01	0.01	0.00	0.00	0.00	0.00	0.32	0.31	0.66	0.87	1.01	1.01	0.95	1.00	1.00	0.93	0.93	0.62	0.61	0.57	0.51	0.54	0.55	0.46	24	1.01	0.00	0.54
10/2/07	0.29	0.31	0.41	0.61	0.94	0.99	0.79	1.01	1.16	1.21	0.86	1.06	1.18	1.06	1.02	1.01	0.82	0.52	0.16	0.13	0.13	0.12	0.16	0.23	24	1.21	0.12	0.67
10/3/07	0.11	0.10	0.07	0.10	0.16	0.27	0.11	0.26	0.35	0.47	0.70	0.76	0.80	0.77	0.81	0.63	0.44	0.13	0.07	0.07	0.21	0.11	0.47	0.58	24	0.81	0.07	0.36
10/4/07	0.40	0.13	0.14	0.19	0.14	0.16	0.16	0.24	0.43	0.64	0.73	0.78	0.91	0.93	0.84	0.90	0.76	0.62	0.45	0.64	0.75	0.64	0.70	0.70	24	0.93	0.13	0.54
10/5/07	0.75	0.81	0.80	0.73	0.78	0.76	0.71	0.74	0.80	0.60	0.52	0.49	0.43	0.34	0.39	0.32	0.32	0.28	0.29	0.26	0.34	0.32	0.44	0.42	24	0.81	0.26	0.53
10/6/07	0.38	0.39	0.51	0.47	0.47	0.45	0.50	0.45	0.57	0.65	0.70	0.78	0.84	0.86	0.94	0.90	0.84	0.85	0.85	0.79	0.67	0.61	0.75	0.85	24	0.94	0.38	0.67
10/7/07	0.80	0.78	0.74	0.69	0.62	0.62	0.64	0.65	0.67	0.71	0.69	0.70	0.66	0.63	0.63	0.50	0.40	0.34	0.19	0.11	0.14	0.10	0.03	0.02	24	0.80	0.02	0.50
10/8/07	0.06	0.01	0.00	0.00	0.23	0.16	0.12	0.18	0.06	0.39	0.58	0.85	0.98	0.95	1.01	0.85	0.80	0.38	0.08	0.11	0.25	0.42	0.51	0.42	24	1.01	0.00	0.39
10/9/07	0.43	0.55	0.52	0.40	0.54	0.50	0.38	0.48	0.63	0.68	0.86	0.88	0.90	0.83	0.78	0.77	0.63	0.34	0.14	0.11	0.15	0.11	0.19	0.28	24	0.90	0.11	0.50
10/10/07	0.16	0.15	0.19	0.11	0.15	0.18	0.24	0.47	0.56	0.53	0.52	0.58	0.68	0.75	0.66	0.69	0.59	0.39	0.14	0.22	0.20	0.22	0.38	0.38	24	0.75	0.11	0.38
10/11/07	0.35	0.44	0.46	0.47	0.52	0.57	0.66	0.81	0.85	0.88	0.91	1.04	0.99	0.90	0.92	0.69	0.51	0.24	0.17	0.17	0.20	0.15	0.20	0.19	24	1.04	0.15	0.55
10/12/07	0.24	0.24	0.11	0.13	0.14	0.13	0.12	0.09	0.29	0.58	0.82	0.89	0.70	0.77	0.63	0.47	0.37	0.18	0.19	0.15	0.20	0.12	0.11	0.14	24	0.89	0.09	0.33
10/13/07	0.22	0.30	0.29	0.28	0.21	0.17	0.22	0.36	0.45	0.41	0.47	0.38	0.36	0.53	0.42	0.28	0.15	0.19	0.26	0.36	0.39	0.36	0.23	0.20	24	0.53	0.15	0.31
10/14/07	0.21	0.23	0.27	0.28	0.28	0.38	0.35	0.31	0.34	0.37	0.53	0.64	0.63	0.68	0.65	0.69	0.63	0.47	0.27	0.22	0.19	0.25	0.19	0.28	24	0.69	0.19	0.39
10/15/07	0.40	0.41	0.47	0.45	0.39	0.49	0.44	0.45	0.53	0.62	0.68	0.71	0.71	0.71	0.66	0.70	0.75	0.74	0.83	0.75	0.66	0.61	0.63	0.62	24	0.83	0.39	0.60
10/16/07	0.54	0.48	0.41	0.39	0.42	0.38	0.39	0.36	0.36	0.29	0.42	0.42	0.38	0.42	0.46	0.35	0.21	0.16	0.22	0.17	0.23	0.27	0.32	0.26	24	0.54	0.16	0.35
10/17/07	0.20	0.28	0.38	0.30	0.38	0.54	0.59	0.69	0.69	0.60	0.59	0.56	0.56	0.52	0.44	0.78	0.41	0.31	0.40	0.46	0.47	0.43	0.43	0.49	24	0.78	0.20	0.48
10/18/07	0.40	0.39	0.43	0.36	0.60	0.72	0.79	0.82	0.92	0.96	1.01	1.08	1.11	1.12	1.11	1.05	1.07	0.98	1.04	0.95	1.03	1.05	0.95	0.92	24	1.12	0.36	0.87
10/19/07	1.03	0.96	0.88	0.69	0.66	0.70	0.50	0.45	0.65	0.71	0.81	0.85	0.84	0.86	0.84	0.77	0.46	0.12	0.21	0.17	0.30	0.20	0.09	0.10	24	1.03	0.09	0.58
10/20/07	0.08	0.09	0.07	0.09	0.13	0.17	0.11	0.21	0.35	0.57	0.68	0.79	0.78	0.57	0.44	0.51	0.41	0.31	0.39	0.64	0.79	0.32	0.15	0.18	24	0.79	0.07	0.37
10/21/07	0.20	0.21	0.46	0.58	0.56	0.44	0.52	0.60	0.73	0.81	0.89	1.02	1.03	1.06	1.00	0.93	0.78	0.55	0.20	0.18	0.14	0.14	0.12	0.10	24	1.06	0.10	0.55
10/22/07	0.15	0.16	0.16	0.17	0.17	0.16	0.28	0.18	0.29	0.54	0.74	0.70	0.82	0.87	0.89	0.67	0.58	0.17	0.11	0.08	0.15	0.16	0.19	0.20	24	0.89	0.08	0.36
10/23/07	0.09	0.23	0.30	0.11	0.19	0.17	0.27	0.31	0.60	0.93	1.03	0.97	1.01	1.00	0.95	0.94	0.77	0.48	0.45	0.28	0.33	0.36	0.09	0.13	24	1.03	0.09	0.50
10/24/07	0.20	0.27	0.11	0.05	0.06	0.10	0.06	0.23	0.26	0.55	0.72	0.71	0.80	0.73	0.72	0.68	0.63	0.38	0.26	0.31	0.24	0.37	0.39	0.45	24	0.80	0.05	0.39
10/25/07	0.41	0.59	0.46	0.41	0.41	0.38	0.47	0.58	0.66	0.74	0.68	0.79	0.76	0.77	0.71	0.62	0.31	0.14	0.09	0.21	0.21	0.16	0.19	0.12	24	0.79	0.09	0.45
10/26/07	0.27	0.22	0.41	0.29	0.35	0.59	0.77	0.79	0.78	0.90	1.03	1.08	1.13	1.17	1.02	0.94	0.74	0.55	0.41	0.23	0.19	0.13	0.12	0.06	24	1.17	0.06	0.59
10/27/07	0.01	0.10	0.22	0.09	0.17	0.18	0.28	0.20	0.50	0.75	0.73	0.93	0.89	0.85	0.81	0.75	0.53	0.17	0.10	0.09	0.06	0.00	0.14	0.09	24	0.93	0.00	0.36
10/28/07	0.09	0.12	0.29	0.40	0.40	0.38	0.34	0.36	0.38	0.57	0.75	0.70	0.76	0.76	0.59	0.51	0.28	0.09	0.14	0.12	0.08	0.17	0.16	0.17	24	0.76	0.08	0.36
10/29/07	0.19	0.18	0.17	0.09	0.05	0.10	0.10	0.11	0.19	0.31	0.45	0.63	0.75	0.67	0.67	0.42	0.23	0.23	0.24	0.30	0.11	0.15	0.09	0.09	24	0.75	0.05	0.27
10/30/07	0.16	0.09	0.17	0.17	0.15	0.12	0.12	0.13	0.21	0.22	0.34	0.55	0.50	0.49	0.57	0.73	0.93	1.30	1.22	1.06	0.92	0.75	0.84	0.76	24	1.30	0.09	0.52
10/31/07	0.74	0.67	0.58	0.44	0.57	0.41	0.27	0.41	0.63	0.85	0.84	0.95	1.04	1.03	0.94	0.76	0.50	0.17	0.14	0.20	0.25	0.35	0.10	0.09	24	1.04	0.09	0.54
hr max	1.03	0.96	0.88	0.73	0.94	0.99	0.79	1.01	1.16	1.21	1.03	1.08	1.18	1.17	1.11	1.05	1.07	1.30	1.22	1.06	1.03	1.05	0.95	0.92				
hr min	0.01	0.01	0.00	0.00	0.00	0.00	0.06	0.09	0.06	0.22	0.34	0.38	0.36	0.34	0.39	0.28	0.15	0.09	0.07	0.07	0.06	0.00	0.03	0.02				
average	0.31	0.32	0.34	0.31	0.35	0.37	0.37	0.43	0.53	0.64	0.72	0.78	0.80	0.79	0.76	0.70	0.57	0.40	0.33	0.33	0.34	0.31	0.32	0.32				

monthly max hr	monthly min hr	monthly ave hr
1.30	0.00	0.48
10/30/07	10/1/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
Deg
100SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
10/1/07	0.06	0.00	0.00	0.00	0.15	0.19	0.35	0.98	0.34	0.54	0.79	0.77	1.21	1.22	1.30	1.16	1.16	0.50	0.33	0.32	1.10	0.78	0.89	1.12	24	1.30	0.00	0.64
10/2/07	0.82	0.56	0.66	0.71	1.03	1.04	0.82	1.03	1.29	1.39	0.92	1.20	1.44	1.34	1.16	1.22	0.91	0.56	0.14	0.20	0.16	0.13	0.09	0.23	24	1.44	0.09	0.79
10/3/07	0.11	0.01	0.00	0.00	0.00	0.38	0.40	0.32	0.35	0.46	0.75	0.89	0.93	0.90	0.96	0.70	0.51	0.17	0.10	0.05	0.19	0.15	0.67	0.59	24	0.96	0.00	0.40
10/4/07	0.40	0.10	0.18	0.18	0.20	0.11	0.18	0.14	0.40	0.73	0.89	0.97	1.08	1.17	1.04	1.06	0.83	0.62	0.37	0.59	0.73	0.72	0.76	0.77	24	1.17	0.10	0.59
10/5/07	0.85	0.83	0.79	0.86	0.83	0.84	0.77	0.77	0.83	0.60	0.52	0.49	0.44	0.35	0.34	0.24	0.24	0.23	0.21	0.23	0.30	0.33	0.40	0.45	24	0.86	0.21	0.53
10/6/07	0.41	0.41	0.51	0.46	0.52	0.46	0.36	0.28	0.32	0.71	0.94	0.94	0.89	0.99	1.15	1.05	0.97	0.89	0.81	0.84	0.76	0.61	0.77	0.85	24	1.15	0.28	0.70
10/7/07	0.84	0.83	0.75	0.72	0.65	0.66	0.60	0.61	0.70	0.81	0.85	0.83	0.78	0.71	0.77	0.62	0.47	0.40	0.20	0.12	0.11	0.12	0.10	0.10	24	0.85	0.10	0.56
10/8/07	0.07	0.05	0.09	0.07	0.00	0.08	0.13	0.17	0.10	0.34	0.62	0.98	1.19	1.13	1.21	1.05	0.94	0.39	0.20	0.34	0.16	0.28	0.39	0.31	24	1.21	0.00	0.43
10/9/07	0.38	0.55	0.41	0.24	0.54	0.51	0.53	0.55	0.72	0.88	1.01	1.06	1.20	1.06	0.98	0.92	0.76	0.36	0.16	0.11	0.10	0.09	0.13	0.23	24	1.20	0.09	0.56
10/10/07	0.12	0.08	0.10	0.32	0.10	0.33	0.39	0.52	0.62	0.61	0.66	0.66	0.83	0.87	0.84	0.86	0.66	0.40	0.17	0.23	0.18	0.11	0.33	0.35	24	0.87	0.08	0.43
10/11/07	0.32	0.36	0.42	0.42	0.47	0.46	0.48	0.52	0.64	0.65	0.81	1.08	0.84	0.92	0.92	0.86	0.55	0.29	0.23	0.13	0.19	0.08	0.15	0.29	24	1.08	0.08	0.50
10/12/07	0.42	0.41	0.21	0.15	0.16	0.11	0.14	0.11	0.18	0.46	0.94	1.09	0.90	0.87	0.75	0.52	0.42	0.25	0.27	0.21	0.25	0.13	0.14	0.16	24	1.09	0.11	0.39
10/13/07	0.18	0.27	0.28	0.28	0.26	0.26	0.25	0.30	0.47	0.35	0.43	0.36	0.37	0.55	0.48	0.25	0.13	0.21	0.27	0.30	0.37	0.36	0.27	0.26	24	0.55	0.13	0.31
10/14/07	0.25	0.22	0.27	0.23	0.24	0.34	0.32	0.30	0.28	0.28	0.51	0.61	0.65	0.73	0.64	0.74	0.64	0.46	0.23	0.18	0.17	0.21	0.22	0.27	24	0.74	0.17	0.37
10/15/07	0.38	0.38	0.43	0.48	0.36	0.43	0.40	0.45	0.50	0.62	0.72	0.67	0.72	0.78	0.65	0.72	0.78	0.77	0.83	0.81	0.68	0.61	0.66	0.68	24	0.83	0.36	0.60
10/16/07	0.59	0.54	0.41	0.37	0.44	0.38	0.39	0.35	0.39	0.35	0.45	0.50	0.43	0.46	0.56	0.40	0.23	0.17	0.25	0.14	0.22	0.31	0.41	0.31	24	0.59	0.14	0.38
10/17/07	0.12	0.20	0.28	0.29	0.36	0.57	0.57	0.62	0.70	0.60	0.57	0.58	0.60	0.54	0.58	0.87	0.26	0.24	0.31	0.42	0.39	0.40	0.35	0.42	24	0.87	0.12	0.45
10/18/07	0.37	0.34	0.40	0.40	0.63	0.73	0.77	0.88	0.90	0.99	1.03	1.12	1.21	1.21	1.24	1.11	1.15	1.03	1.06	1.00	1.08	1.11	1.04	0.97	24	1.24	0.34	0.91
10/19/07	1.10	1.03	0.94	0.65	0.66	0.66	0.45	0.35	0.57	0.67	0.91	1.04	1.01	1.04	0.98	0.93	0.55	0.22	0.27	0.23	0.24	0.00	0.00	0.00	24	1.10	0.00	0.60
10/20/07	0.11	0.19	0.24	0.00	0.35	0.15	0.11	0.10	0.17	0.61	0.82	1.02	0.89	0.67	0.46	0.50	0.37	0.23	0.37	0.65	1.03	0.42	0.20	0.22	24	1.03	0.00	0.41
10/21/07	0.10	0.15	0.37	0.59	0.47	0.39	0.48	0.63	0.77	0.88	1.00	1.22	1.12	1.26	1.05	0.96	0.81	0.53	0.14	0.14	0.24	0.21	0.11	0.15	24	1.26	0.10	0.57
10/22/07	0.14	0.15	0.15	0.20	0.20	0.09	0.28	0.21	0.27	0.43	0.74	0.80	0.95	1.03	1.05	0.76	0.71	0.25	0.19	0.17	0.12	0.20	0.15	0.00	24	1.05	0.00	0.39
10/23/07	0.00	0.12	0.24	0.00	0.39	0.19	0.25	0.15	0.46	0.97	1.15	1.14	1.20	1.15	1.22	1.04	0.76	0.37	0.29	0.19	0.36	0.42	0.09	0.11	24	1.22	0.00	0.51
10/24/07	0.09	0.14	0.16	0.11	0.04	0.08	0.09	0.54	0.60	0.76	1.02	0.91	1.07	0.89	0.79	0.80	0.66	0.20	0.11	0.15	0.50	0.65	0.42	0.70	24	1.07	0.04	0.48
10/25/07	0.87	1.01	0.90	0.55	0.54	0.47	0.78	0.88	1.06	1.07	1.00	1.21	1.03	1.08	0.96	0.79	0.46	0.08	0.16	0.27	0.22	0.20	0.23	0.17	24	1.21	0.08	0.67
10/26/07	0.43	0.19	0.22	0.27	0.34	0.54	0.72	0.74	0.79	0.93	1.09	1.18	1.24	1.15	1.03	0.94	0.72	0.58	0.40	0.16	0.10	0.09	0.11	0.13	24	1.24	0.09	0.59
10/27/07	0.07	0.00	0.00	0.00	0.00	0.00	0.31	0.21	0.47	0.77	0.85	1.09	1.06	1.02	1.00	0.91	0.65	0.18	0.14	0.11	0.04	0.12	0.17	0.09	24	1.09	0.00	0.39
10/28/07	0.09	0.19	0.00	0.02	0.07	0.25	0.79	1.22	0.54	0.61	0.76	0.81	0.80	0.80	0.53	0.47	0.25	0.00	0.21	0.24	0.22	0.23	0.22	0.20	24	1.22	0.00	0.40
10/29/07	0.19	0.25	0.14	0.16	0.08	0.15	0.22	0.30	0.11	0.33	0.56	0.68	0.92	0.81	0.77	0.62	0.62	0.40	0.42	0.55	0.16	0.14	0.16	0.07	24	0.92	0.07	0.37
10/30/07	0.06	0.02	0.00	0.13	0.15	0.12	0.22	0.09	0.13	0.21	0.51	0.47	0.80	0.78	0.58	0.77	1.05	1.32	1.27	1.13	0.94	0.74	0.84	0.81	24	1.32	0.00	0.55
10/31/07	0.76	0.70	0.57	0.46	0.60	0.32	0.17	0.19	0.61	0.93	0.99	1.17	1.22	1.23	1.18	0.85	0.56	0.20	0.08	0.14	0.13	0.21	0.10	0.25	24	1.23	0.08	0.57
hr max	1.10	1.03	0.94	0.86	1.03	1.04	0.82	1.22	1.29	1.39	1.15	1.22	1.44	1.34	1.30	1.22	1.16	1.32	1.27	1.13	1.10	1.11	1.04	1.12				
hr min	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.10	0.21	0.43	0.36	0.37	0.35	0.34	0.24	0.13	0.00	0.08	0.05	0.04	0.00	0.00	0.00				
average	0.35	0.33	0.33	0.30	0.35	0.36	0.41	0.47	0.53	0.66	0.80	0.89	0.94	0.93	0.88	0.80	0.64	0.40	0.33	0.33	0.37	0.33	0.34	0.36				

monthly max hr	monthly min hr	monthly ave hr
1.44	0.00	0.52
10/2/07	10/1/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
degC
2mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
10/1/07	5.7	5.5	4.9	4.2	3.8	4.0	4.0	7.0	11.3	15.3	19.0	21.4	22.8	24.1	25.4	26.1	26.1	24.2	21.7	19.7	18.5	18.3	18.4	17.5	24	26.1	3.8	15.4
10/2/07	16.8	16.7	15.9	15.2	15.2	15.4	14.5	14.7	15.0	15.5	13.8	15.9	17.8	18.6	18.8	18.8	18.1	16.6	12.1	9.5	7.8	7.9	7.2	6.0	24	18.8	6.0	14.3
10/3/07	5.5	4.8	4.6	4.4	5.0	4.7	6.1	7.7	10.2	12.9	16.7	19.5	20.9	22.2	22.8	23.8	23.7	21.7	18.2	14.9	15.5	14.2	13.5	14.0	24	23.8	4.4	13.6
10/4/07	12.2	9.1	8.3	7.8	6.7	5.6	5.7	7.4	11.9	16.5	17.9	19.0	19.6	20.2	20.4	19.8	18.8	17.1	14.3	13.4	12.9	12.3	11.7	10.9	24	20.4	5.6	13.3
10/5/07	11.7	11.8	11.8	11.5	11.1	11.0	10.7	10.8	11.2	11.7	11.4	10.8	11.5	11.9	12.3	12.7	13.4	13.2	13.3	13.1	13.1	13.2	13.5	13.8	24	13.8	10.7	12.1
10/6/07	13.8	13.7	13.8	13.9	14.2	14.4	15.1	16.6	18.4	21.6	24.3	23.9	22.7	23.1	21.7	19.1	14.7	12.6	11.0	10.5	9.7	8.3	7.7	7.1	24	24.3	7.1	15.5
10/7/07	6.6	6.5	6.2	6.0	5.9	5.8	5.4	5.1	5.5	6.4	7.4	7.8	7.8	8.0	8.2	8.1	7.7	7.5	6.1	5.2	4.6	5.0	5.2	4.6	24	8.2	4.6	6.4
10/8/07	4.2	3.9	3.2	2.6	1.8	0.4	1.8	3.5	5.7	8.1	9.7	12.5	13.6	14.4	16.1	15.9	16.4	14.7	11.4	10.0	12.1	13.1	13.6	12.4	24	16.4	0.4	9.2
10/9/07	11.2	11.0	10.3	9.2	8.5	7.7	5.5	5.9	7.9	9.4	10.8	12.0	13.2	13.8	14.0	13.6	13.0	11.3	7.9	6.5	5.6	4.5	3.8	3.0	24	14.0	3.0	9.2
10/10/07	1.8	1.0	0.7	0.7	0.4	-0.2	0.4	2.7	3.5	3.5	3.8	4.3	5.1	6.1	6.6	6.5	6.5	5.5	2.5	0.2	-0.8	-0.1	0.4	0.2	24	6.6	-0.8	2.6
10/11/07	-0.1	0.3	0.4	0.2	0.6	1.0	1.1	1.9	3.5	5.7	8.5	10.6	12.1	13.3	14.3	14.8	14.5	12.3	7.4	5.7	4.9	4.1	3.6	1.9	24	14.8	-0.1	5.9
10/12/07	1.1	0.8	0.7	0.7	1.0	1.7	2.7	3.4	7.3	11.9	14.9	16.6	17.3	18.0	18.0	17.3	17.6	15.7	12.9	11.7	10.1	9.5	8.5	7.0	24	18.0	0.7	9.4
10/13/07	6.4	5.7	4.9	4.2	2.9	2.6	3.5	4.5	5.5	6.6	7.7	8.5	9.3	10.3	10.5	10.5	10.0	9.4	8.4	7.8	7.1	6.7	6.4	6.2	24	10.5	2.6	6.9
10/14/07	6.1	6.0	5.9	6.1	6.2	6.4	6.5	6.5	6.6	7.0	7.7	8.2	8.3	8.4	8.6	8.6	8.4	7.1	6.4	6.7	6.5	6.5	6.5	6.4	24	8.6	5.9	7.0
10/15/07	6.5	6.5	6.5	6.4	6.1	5.6	5.5	5.6	5.6	5.9	6.3	5.6	5.4	5.3	5.4	5.5	5.3	5.1	4.9	4.8	4.8	5.0	5.1	5.0	24	6.5	4.8	5.6
10/16/07	5.0	5.0	4.9	4.8	4.8	4.8	4.9	5.0	5.2	5.4	5.9	6.2	6.6	6.9	7.5	7.4	7.4	7.4	7.4	7.4	7.5	7.6	7.2	6.9	24	7.6	4.8	6.2
10/17/07	6.8	6.9	6.5	5.5	4.8	5.2	5.6	6.2	6.7	7.3	8.1	8.5	9.1	9.9	10.6	11.8	11.9	11.3	10.6	10.3	10.1	9.8	9.7	9.6	24	11.9	4.8	8.5
10/18/07	9.5	9.4	9.4	9.3	9.3	9.2	9.0	8.9	8.9	9.1	9.3	9.5	9.2	9.3	10.4	9.7	9.2	8.9	8.9	8.9	8.8	8.8	8.5	7.9	24	10.4	7.9	9.1
10/19/07	7.5	7.1	6.7	5.5	4.8	4.9	4.0	3.9	5.9	8.3	10.7	13.0	14.3	15.3	15.8	15.7	14.8	11.9	9.3	7.9	7.2	6.1	6.6	6.7	24	15.8	3.9	8.9
10/20/07	6.1	6.3	6.2	6.5	8.2	8.7	8.4	8.6	10.1	13.0	15.5	16.0	15.5	14.7	13.6	12.8	11.3	10.2	9.7	9.5	9.6	9.2	8.2	7.5	24	16.0	6.1	10.2
10/21/07	7.3	6.7	6.9	7.1	7.1	6.3	5.7	5.3	5.5	6.2	7.3	8.4	9.5	9.2	9.1	9.4	8.8	8.0	5.7	5.0	3.8	3.0	2.7	2.5	24	9.5	2.5	6.5
10/22/07	1.7	1.3	0.6	0.7	0.9	1.1	0.6	0.7	3.4	6.7	8.8	10.4	11.7	12.6	12.9	12.4	12.4	9.2	6.6	5.7	4.5	3.8	3.6	3.2	24	12.9	0.6	5.6
10/23/07	2.5	3.9	3.7	5.3	5.5	3.8	3.9	7.5	9.7	12.7	14.9	16.2	17.3	18.1	18.2	18.2	17.0	14.4	12.4	9.7	7.1	6.5	4.9	3.4	24	18.2	2.5	9.9
10/24/07	3.1	2.9	1.4	1.5	1.6	1.0	0.2	1.6	5.4	9.0	11.7	13.5	15.2	16.3	16.8	16.8	15.7	13.0	10.9	9.3	8.3	8.2	8.8	8.9	24	16.8	0.2	8.4
10/25/07	9.0	9.6	9.5	8.6	8.2	8.4	7.8	7.8	10.3	13.0	15.2	17.4	19.1	20.7	21.7	22.3	21.4	15.5	11.0	10.6	8.0	5.4	4.0	2.9	24	22.3	2.9	12.0
10/26/07	3.7	3.4	4.3	4.3	4.1	4.1	4.1	4.3	5.3	7.7	9.6	10.7	10.9	10.0	8.7	7.6	7.0	6.4	5.9	5.1	4.5	1.6	-0.1	-0.1	24	10.9	-0.1	5.5
10/27/07	-0.1	0.4	0.6	-0.3	-0.1	1.3	1.8	1.1	2.4	3.5	4.5	5.7	6.2	6.3	6.7	6.5	5.7	3.4	1.1	-0.7	-1.4	-3.1	-3.1	-2.2	24	6.7	-3.1	1.9
10/28/07	-2.1	-1.5	-1.1	-1.0	-1.4	-1.5	-1.7	-0.9	2.0	4.8	7.4	10.1	11.9	13.2	14.0	14.9	13.7	11.3	9.5	8.3	8.5	8.4	6.4	7.7	24	14.9	-2.1	5.9
10/29/07	7.4	8.2	8.1	7.2	5.7	3.4	2.7	3.4	8.4	13.9	16.9	18.4	19.8	20.4	21.1	21.3	19.5	14.2	10.1	10.6	11.8	10.5	8.6	8.6	24	21.3	2.7	11.7
10/30/07	8.1	6.8	6.9	6.5	5.7	5.7	4.9	5.6	6.8	10.9	14.3	17.5	18.2	16.7	17.1	15.9	14.9	12.8	11.2	9.3	6.1	5.9	6.1	6.0	24	18.2	4.9	10.0
10/31/07	5.4	4.3	2.9	1.7	1.6	0.6	-0.4	-0.3	1.5	3.9	6.3	7.8	9.1	10.0	10.5	10.4	9.5	6.0	4.3	2.2	1.5	1.0	-0.4	0.2	24	10.5	-0.4	4.2
hr max	16.8	16.7	15.9	15.2	15.2	15.4	15.1	16.6	18.4	21.6	24.3	23.9	22.8	24.1	25.4	26.1	26.1	24.2	21.7	19.7	18.5	18.3	18.4	17.5				
hr min	-2.1	-1.5	-1.1	-1.0	-1.4	-1.5	-1.7	-0.9	1.5	3.5	3.8	4.3	5.1	5.3	5.4	5.5	5.3	3.4	1.1	-0.7	-1.4	-3.1	-3.1	-2.2				
average	6.1	5.9	5.7	5.4	5.2	4.9	4.8	5.5	7.3	9.5	11.2	12.4	13.3	13.8	14.1	14.0	13.4	11.5	9.5	8.3	7.7	7.1	6.7	6.3				

monthly	monthly	monthly
max hr	min hr	ave hr
26.1	-3.1	8.7
10/1/07	10/27/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
degC
10mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
10/1/07	10.9	9.2	8.6	7.1	6.7	6.4	5.6	7.2	10.9	14.6	18.2	20.5	21.8	23.3	24.9	25.8	25.8	24.7	22.4	20.4	19.0	18.9	18.9	18.1	24	25.8	5.6	16.2
10/2/07	17.3	17.1	16.4	15.7	15.4	15.7	14.8	14.8	15.0	15.1	13.7	15.1	16.8	17.7	18.1	18.3	18.0	17.0	14.7	13.6	12.0	11.8	12.2	10.6	24	18.3	10.6	15.3
10/3/07	7.6	7.0	6.9	6.2	6.4	6.0	7.4	8.3	9.8	12.1	15.6	18.2	19.6	21.1	22.0	23.1	23.6	23.0	22.4	20.2	18.1	17.0	16.0	14.6	24	23.6	6.0	14.7
10/4/07	13.5	12.2	11.7	10.2	9.2	8.4	8.0	7.8	11.4	15.8	17.1	17.8	18.5	19.2	19.5	19.3	18.7	17.4	14.9	13.8	13.3	12.6	12.0	11.3	24	19.5	7.8	13.9
10/5/07	11.7	11.8	11.8	11.5	11.1	11.0	10.7	10.7	11.0	11.4	11.0	10.6	11.1	11.5	11.9	12.4	13.1	13.1	13.2	13.1	13.0	13.2	13.5	13.8	24	13.8	10.6	12.0
10/6/07	13.8	13.7	13.8	13.9	14.2	14.5	15.3	16.6	18.2	21.1	23.4	22.7	21.1	21.7	20.5	18.2	14.2	12.4	11.0	10.5	9.8	8.4	7.7	7.2	24	23.4	7.2	15.2
10/7/07	6.6	6.6	6.2	6.1	5.9	5.8	5.4	5.1	5.5	5.9	6.8	7.1	7.1	7.2	7.6	7.7	7.5	7.5	6.7	6.1	5.7	5.6	5.7	5.5	24	7.7	5.1	6.4
10/8/07	5.3	5.5	4.8	4.3	2.9	2.2	3.4	3.8	5.7	7.6	9.1	11.3	12.2	13.5	15.3	15.6	16.3	15.5	12.7	11.1	13.1	14.1	14.6	13.3	24	16.3	2.2	9.7
10/9/07	12.1	11.8	10.9	9.8	9.1	8.4	6.4	6.1	7.3	8.4	9.6	10.6	11.8	12.5	12.7	12.8	12.7	12.0	10.0	8.1	7.2	6.2	5.1	4.2	24	12.8	4.2	9.4
10/10/07	3.2	2.7	2.4	1.7	1.8	1.3	0.8	2.7	3.4	3.2	3.3	3.7	4.4	5.2	5.7	5.8	6.2	5.9	3.9	1.8	0.9	0.6	0.8	0.5	24	6.2	0.5	3.0
10/11/07	0.2	0.5	0.6	0.4	0.8	1.2	1.3	1.8	3.2	4.9	7.5	9.4	11.0	12.3	13.4	14.1	14.3	13.3	8.8	7.3	6.5	5.6	5.1	4.8	24	14.3	0.2	6.2
10/12/07	2.6	3.1	3.5	3.7	4.0	4.7	5.6	4.8	6.9	11.4	14.2	15.7	16.4	17.1	17.3	17.2	17.3	16.5	15.0	14.1	12.1	10.7	9.6	8.2	24	17.3	2.6	10.5
10/13/07	7.6	6.4	5.5	4.8	4.2	3.7	3.8	4.6	5.3	6.3	7.3	8.2	8.9	9.9	10.2	10.4	10.2	9.7	8.7	8.0	7.2	6.7	6.4	6.3	24	10.4	3.7	7.1
10/14/07	6.2	6.0	5.9	6.1	6.2	6.3	6.5	6.6	6.6	7.0	7.5	8.1	8.2	8.3	8.4	8.4	8.2	7.4	6.7	6.8	6.6	6.7	6.7	6.5	24	8.4	5.9	7.0
10/15/07	6.5	6.5	6.6	6.5	6.3	5.9	5.7	5.7	5.7	5.9	6.1	5.6	5.4	5.2	5.4	5.5	5.3	5.2	5.0	4.8	4.8	5.0	5.1	5.0	24	6.6	4.8	5.6
10/16/07	4.9	4.9	4.9	4.8	4.8	4.8	4.8	4.9	5.0	5.1	5.5	5.9	6.2	6.6	7.1	7.2	7.3	7.3	7.4	7.4	7.5	7.6	7.1	6.9	24	7.6	4.8	6.1
10/17/07	6.8	6.9	6.5	5.5	4.9	5.2	5.6	6.1	6.6	7.1	7.8	8.2	8.9	9.7	10.5	12.0	12.1	11.5	10.6	10.3	10.0	9.8	9.7	9.6	24	12.1	4.9	8.4
10/18/07	9.5	9.4	9.4	9.3	9.3	9.2	9.0	8.9	8.9	9.1	9.3	9.5	9.2	9.4	10.4	9.7	9.3	9.0	9.1	9.1	9.0	9.0	8.8	8.1	24	10.4	8.1	9.2
10/19/07	7.7	7.1	6.9	5.8	5.1	5.3	4.4	4.0	5.6	7.7	9.7	11.9	13.1	14.3	15.0	15.4	15.1	12.9	11.1	9.9	9.0	7.9	7.8	7.6	24	15.4	4.0	9.2
10/20/07	7.8	7.4	6.8	7.4	9.5	9.9	9.6	9.4	10.1	12.4	14.5	15.0	14.6	14.4	13.4	12.7	11.5	10.6	10.1	9.9	10.6	10.0	9.8	8.9	24	15.0	6.8	10.7
10/21/07	7.8	7.3	7.2	7.4	7.3	6.6	5.9	5.5	5.4	5.9	6.7	7.5	8.4	8.4	8.6	9.1	8.8	8.4	6.6	5.9	4.9	4.3	3.8	3.5	24	9.1	3.5	6.7
10/22/07	2.6	2.0	1.4	1.5	1.6	1.8	1.4	1.1	3.1	6.0	7.8	9.2	10.3	11.4	12.1	12.1	12.5	10.9	8.8	7.5	6.4	5.8	5.3	4.6	24	12.5	1.1	6.1
10/23/07	4.1	4.9	4.3	5.5	5.9	4.5	4.8	8.0	9.8	12.3	14.2	15.3	16.3	17.2	17.6	18.0	17.2	15.1	13.1	10.7	9.1	8.9	7.7	6.8	24	18.0	4.1	10.5
10/24/07	5.6	4.7	4.5	5.5	6.1	4.8	4.4	3.8	5.2	8.3	10.7	12.4	14.0	15.3	16.1	16.4	15.7	13.5	11.4	9.7	8.7	8.8	9.3	9.3	24	16.4	3.8	9.3
10/25/07	9.5	10.1	9.9	9.0	8.6	8.7	8.1	8.0	10.1	12.5	14.3	16.4	18.1	19.8	21.1	21.9	21.6	17.4	13.8	12.6	10.5	7.3	5.5	4.5	24	21.9	4.5	12.5
10/26/07	4.4	4.3	4.8	4.7	4.5	4.5	4.5	4.6	5.2	7.2	8.9	9.9	10.0	9.2	8.3	7.5	7.0	6.5	6.0	5.3	4.8	3.1	2.5	2.3	24	10.0	2.3	5.8
10/27/07	1.6	1.9	1.9	0.6	0.6	1.7	2.0	1.4	2.1	2.7	3.3	4.4	4.8	5.0	5.6	5.8	5.6	4.6	3.8	1.9	1.1	-0.5	-0.9	-0.5	24	5.8	-0.9	2.5
10/28/07	-0.7	-0.8	-0.6	-0.7	-1.0	-1.2	-1.3	-0.6	1.8	4.2	6.5	9.2	10.9	12.3	13.6	14.6	13.8	12.5	12.2	11.4	10.0	9.8	9.8	11.6	24	14.6	-1.3	6.6
10/29/07	11.7	12.9	14.0	10.3	10.4	7.8	6.9	6.2	8.4	13.5	16.2	17.5	18.8	19.4	20.5	21.1	20.2	17.4	15.7	13.9	13.8	13.5	13.5	13.5	24	21.1	6.2	14.0
10/30/07	12.9	11.9	11.7	9.8	11.0	14.4	13.1	8.7	7.3	10.8	14.0	16.9	17.9	16.5	16.9	16.0	15.1	12.9	11.4	9.3	6.3	6.2	6.3	6.2	24	17.9	6.2	11.8
10/31/07	5.7	4.8	3.4	2.3	2.2	1.1	0.1	0.0	1.3	3.2	5.2	6.6	7.9	8.9	9.6	9.9	9.7	8.5	7.8	5.9	4.6	3.4	1.7	2.1	24	9.9	0.0	4.8
hr max	17.3	17.1	16.4	15.7	15.4	15.7	15.3	16.6	18.2	21.1	23.4	22.7	21.8	23.3	24.9	25.8	25.8	24.7	22.4	20.4	19.0	18.9	18.9	18.1				
hr min	-0.7	-0.8	-0.6	-0.7	-1.0	-1.2	-1.3	-0.6	1.3	2.7	3.3	3.7	4.4	5.0	5.4	5.5	5.3	4.6	3.8	1.8	0.9	-0.5	-0.9	-0.5				
average	7.3	7.1	6.9	6.3	6.3	6.1	5.9	6.0	7.2	9.0	10.5	11.6	12.4	13.0	13.5	13.7	13.4	12.2	10.8	9.7	8.9	8.3	8.0	7.6				

monthly max hr	monthly min hr	monthly ave hr
25.8	-1.3	9.2
10/1/07	10/28/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
degC
50mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
10/1/07	13.7	13.7	13.4	13.2	12.4	11.4	9.8	8.7	10.7	13.9	17.4	19.5	20.9	22.3	24.1	25.2	25.2	24.9	23.0	21.0	19.7	19.6	19.3	18.5	24	25.2	8.7	17.6
10/2/07	18.0	17.6	17.3	16.8	15.2	15.6	14.9	14.7	14.7	14.5	13.3	14.2	15.8	16.7	17.1	17.5	17.4	17.0	16.0	15.8	15.6	15.8	15.8	15.6	24	18.0	13.3	16.0
10/3/07	14.3	14.6	13.9	12.1	10.9	12.2	12.1	10.7	9.5	11.5	14.8	17.3	18.8	20.3	21.1	22.5	23.3	23.3	23.0	22.6	22.5	21.6	18.4	15.2	24	23.3	9.5	16.9
10/4/07	14.4	13.7	13.7	13.4	12.2	11.2	12.5	10.8	11.4	15.2	16.3	17.0	17.5	18.3	18.7	18.6	18.3	17.4	15.6	14.1	13.3	12.6	11.9	11.3	24	18.7	10.8	14.6
10/5/07	11.4	11.5	11.5	11.2	10.8	10.6	10.4	10.3	10.5	10.8	10.5	10.2	10.7	11.1	11.6	11.9	12.5	12.6	12.9	12.8	12.8	13.1	13.4	13.6	24	13.6	10.2	11.6
10/6/07	13.6	13.6	13.7	13.7	14.1	14.5	15.6	17.0	18.3	20.5	22.6	21.9	20.2	20.8	19.5	17.3	13.6	11.9	10.6	10.2	9.6	8.0	7.3	6.8	24	22.6	6.8	14.8
10/7/07	6.3	6.2	5.8	5.7	5.5	5.4	5.0	4.6	5.0	5.3	6.1	6.4	6.4	6.5	7.0	7.1	7.1	7.0	6.9	6.6	6.3	6.1	6.1	6.0	24	7.1	4.6	6.1
10/8/07	5.8	5.8	6.0	6.1	6.0	5.4	6.1	5.9	7.1	7.3	8.6	10.6	11.4	12.9	14.7	15.2	16.0	15.8	15.7	15.7	15.4	15.5	15.4	14.1	24	16.0	5.4	10.8
10/9/07	12.9	12.4	11.5	10.4	9.4	8.6	6.5	6.0	6.8	7.6	8.7	9.8	10.8	11.6	11.9	12.1	12.2	11.9	11.2	9.9	9.2	8.0	6.3	4.8	24	12.9	4.8	9.6
10/10/07	4.3	3.6	3.8	3.8	3.4	2.5	2.0	2.7	3.0	2.6	2.7	3.0	3.7	4.4	5.0	5.2	5.7	5.8	5.1	3.9	2.6	1.9	1.1	0.6	24	5.8	0.6	3.4
10/11/07	0.3	0.6	0.6	0.4	0.8	1.2	1.3	1.5	2.7	4.1	6.6	8.5	10.0	11.4	12.6	13.4	13.8	13.3	9.9	9.0	7.9	7.7	7.6	6.7	24	13.8	0.3	6.3
10/12/07	6.1	5.8	5.8	6.5	6.9	9.0	10.3	10.0	10.1	11.0	13.7	15.1	15.8	16.5	16.7	16.8	16.9	16.5	15.3	15.0	13.6	12.0	11.0	10.6	24	16.9	5.8	12.0
10/13/07	8.8	6.7	5.9	5.3	4.8	4.6	4.2	4.5	4.9	5.8	6.7	7.6	8.3	9.2	9.7	10.0	10.1	9.7	8.7	7.9	6.9	6.4	6.1	6.0	24	10.1	4.2	7.0
10/14/07	6.0	5.7	5.7	5.7	5.9	6.1	6.2	6.2	6.3	6.6	7.1	7.6	7.7	7.8	8.0	7.9	7.7	7.3	7.0	6.6	6.6	6.7	6.6	6.4	24	8.0	5.7	6.7
10/15/07	6.4	6.3	6.3	6.2	6.1	5.8	5.6	5.6	5.5	5.5	5.7	5.2	4.9	4.8	5.0	5.1	5.0	4.8	4.7	4.5	4.4	4.7	4.7	4.7	24	6.4	4.4	5.3
10/16/07	4.6	4.6	4.5	4.4	4.5	4.4	4.5	4.6	4.6	4.8	5.1	5.4	5.6	5.9	6.5	6.8	6.9	7.0	7.1	7.1	7.2	7.3	6.8	6.6	24	7.3	4.4	5.7
10/17/07	6.4	6.5	6.2	5.3	4.8	4.9	5.3	5.8	6.2	6.7	7.4	7.9	8.6	9.4	10.3	12.2	12.3	11.8	10.6	10.0	9.8	9.6	9.4	9.3	24	12.3	4.8	8.2
10/18/07	9.2	9.1	9.1	9.0	9.0	9.0	8.7	8.5	8.5	8.5	8.7	9.0	8.8	9.1	10.0	9.4	9.0	8.7	8.9	8.9	8.8	8.8	8.6	7.9	24	10.0	7.9	8.9
10/19/07	7.4	6.9	6.6	5.7	5.1	5.4	4.5	4.1	5.3	7.2	9.2	11.3	12.4	13.7	14.5	14.9	15.0	14.1	13.4	13.8	13.5	13.5	12.4	13.0	24	15.0	4.1	10.1
10/20/07	12.2	11.6	11.7	13.3	13.8	13.0	12.2	11.1	10.6	12.0	13.7	14.3	14.0	13.9	13.1	12.4	11.4	10.8	10.4	10.2	11.0	10.5	10.1	9.5	24	14.3	9.5	12.0
10/21/07	8.6	8.3	7.3	7.4	7.3	6.5	5.7	5.3	5.1	5.5	6.2	6.8	7.6	7.7	8.0	8.6	8.5	8.4	7.8	7.5	7.6	7.8	6.7	6.2	24	8.6	5.1	7.2
10/22/07	4.7	4.3	3.0	3.6	3.4	3.8	3.6	4.3	3.6	5.4	7.2	8.5	9.6	10.7	11.5	11.7	12.2	11.7	11.5	11.5	11.1	11.3	10.7	10.4	24	12.2	3.0	7.9
10/23/07	10.4	9.9	8.1	8.1	7.8	7.9	7.9	9.0	9.8	11.9	13.6	14.6	15.6	16.5	17.0	17.5	17.1	15.7	13.8	11.8	10.0	9.7	9.7	9.3	24	17.5	7.8	11.8
10/24/07	8.7	7.4	6.4	7.0	8.1	8.1	7.9	7.1	6.1	7.7	9.9	11.6	13.2	14.4	15.3	15.7	15.4	14.0	12.7	11.0	10.3	10.5	10.4	10.1	24	15.7	6.1	10.4
10/25/07	10.1	10.6	10.5	9.6	9.3	9.3	8.6	8.3	9.7	11.8	13.5	15.5	17.2	19.0	20.3	21.4	21.5	19.2	18.0	15.3	12.5	11.1	9.1	6.6	24	21.5	6.6	13.3
10/26/07	5.9	5.9	5.4	5.3	5.0	4.5	4.5	4.6	4.8	6.5	8.1	9.0	9.1	8.3	7.7	7.0	6.7	6.3	5.8	5.3	4.8	4.6	5.0	5.1	24	9.1	4.5	6.1
10/27/07	5.0	5.0	5.0	4.7	3.6	4.0	2.5	2.3	1.8	2.0	2.5	3.5	3.9	4.2	4.9	5.2	5.1	4.6	4.2	3.0	2.7	2.7	2.8	2.8	24	5.2	1.8	3.7
10/28/07	2.9	2.3	0.9	0.3	-0.1	-0.5	-0.6	0.0	1.6	3.7	5.7	8.3	10.1	11.5	13.0	14.0	13.9	14.8	15.8	16.0	16.9	17.8	17.8	16.4	24	17.8	-0.6	8.4
10/29/07	16.0	16.0	15.6	14.6	14.0	13.9	14.1	13.2	14.0	13.9	15.6	16.7	17.9	18.7	19.8	20.6	20.3	19.8	19.0	18.5	17.2	16.4	16.3	16.3	24	20.6	13.2	16.6
10/30/07	16.4	18.4	18.7	18.2	18.2	18.5	18.2	17.1	14.9	13.6	13.9	16.3	17.4	16.1	16.6	15.6	15.0	12.7	11.1	9.0	6.0	6.1	6.1	6.1	24	18.7	6.0	14.2
10/31/07	5.6	4.9	3.6	2.7	2.5	1.6	0.8	0.5	1.0	2.6	4.5	5.8	7.0	8.1	8.9	9.3	9.4	9.1	9.3	9.0	9.3	9.2	9.0	7.9	24	9.4	0.5	5.9
hr max	18.0	18.4	18.7	18.2	18.2	18.5	18.2	17.1	18.3	20.5	22.6	21.9	20.9	22.3	24.1	25.2	25.2	24.9	23.0	22.6	22.5	21.6	19.3	18.5				
hr min	0.3	0.6	0.6	0.3	-0.1	-0.5	-0.6	0.0	1.0	2.0	2.5	3.0	3.7	4.2	4.9	5.1	5.0	4.6	4.2	3.0	2.6	1.9	1.1	0.6				
average	8.9	8.7	8.3	8.1	7.8	7.7	7.4	7.3	7.6	8.6	9.9	10.9	11.6	12.3	12.9	13.2	13.0	12.5	11.8	11.1	10.5	10.2	9.7	9.2				

monthly max hr	monthly min hr	monthly ave hr
25.2	-0.6	10.0
10/1/07	10/28/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
degC
100mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
10/1/07	14.2	13.9	13.5	13.5	13.1	12.5	12.5	12.8	12.0	13.4	16.8	18.9	20.2	21.7	23.5	24.6	24.6	24.8	23.3	21.5	20.3	20.1	19.5	18.7	24	24.8	12.0	17.9
10/2/07	18.4	18.1	18.3	17.2	14.9	15.3	14.8	14.4	14.2	14.0	12.8	13.6	15.1	16.0	16.5	16.9	16.8	16.6	16.2	16.4	16.2	16.2	16.3	16.3	24	18.4	12.8	15.9
10/3/07	15.2	15.3	15.8	15.2	14.7	15.5	14.5	11.9	11.6	12.1	14.3	16.7	18.2	19.7	20.6	21.9	22.8	22.9	22.9	22.7	22.6	22.2	19.1	15.3	24	22.9	11.6	17.7
10/4/07	14.4	14.0	14.6	14.4	13.4	13.7	13.5	12.8	13.3	14.6	15.7	16.3	16.9	17.7	18.1	18.1	17.8	17.0	15.7	14.2	13.2	12.4	11.7	11.1	24	18.1	11.1	14.8
10/5/07	11.0	11.0	11.1	10.8	10.3	10.2	10.0	9.8	10.0	10.3	10.0	9.9	10.4	10.9	11.3	11.7	12.1	12.2	12.4	12.5	12.6	13.0	13.2	13.5	24	13.5	9.8	11.3
10/6/07	13.5	13.4	13.5	13.6	14.0	14.7	16.5	17.4	18.3	20.0	22.0	21.3	19.6	20.3	18.9	16.6	13.0	11.4	10.2	9.7	9.5	7.6	6.8	6.4	24	22.0	6.4	14.5
10/7/07	5.8	5.8	5.4	5.2	5.1	4.9	4.6	4.2	4.5	4.8	5.6	5.9	5.9	6.0	6.4	6.6	6.6	6.5	6.4	6.2	5.9	5.8	5.8	5.7	24	6.6	4.2	5.7
10/8/07	5.6	5.8	6.5	6.9	7.3	6.5	6.8	6.9	7.4	7.1	8.1	10.0	10.8	12.4	14.1	14.7	15.4	15.6	15.9	16.9	17.4	17.6	16.4	15.0	24	17.6	5.6	11.1
10/9/07	13.7	12.8	12.0	11.1	9.6	8.5	6.2	5.8	6.4	7.1	8.1	9.2	10.3	11.0	11.4	11.5	11.6	11.5	11.0	10.5	9.7	9.1	7.6	5.5	24	13.7	5.5	9.6
10/10/07	5.0	4.3	4.7	4.6	4.1	3.5	2.4	2.4	2.5	2.1	2.2	2.5	3.2	3.9	4.5	4.7	5.1	5.3	4.9	4.3	3.3	3.2	1.6	1.0	24	5.3	1.0	3.6
10/11/07	0.5	0.7	0.8	0.7	1.1	1.4	1.4	1.5	2.2	3.6	6.0	7.9	9.4	10.9	12.0	12.9	13.3	12.9	10.7	10.0	9.1	9.3	9.0	8.8	24	13.3	0.5	6.5
10/12/07	7.9	7.7	7.4	8.2	9.4	10.1	10.8	11.4	11.3	11.1	13.1	14.5	15.3	16.0	16.2	16.3	16.4	16.1	15.1	14.9	13.9	13.0	12.4	11.4	24	16.4	7.4	12.5
10/13/07	10.7	7.2	6.3	5.8	5.6	6.2	5.4	4.6	4.7	5.4	6.3	7.1	7.9	8.7	9.2	9.6	9.9	9.4	8.4	7.5	6.5	6.0	5.8	6.0	24	10.7	4.6	7.1
10/14/07	6.2	5.8	5.4	5.5	5.7	5.8	5.9	6.0	5.9	6.2	6.6	7.1	7.2	7.3	7.5	7.4	7.2	6.9	6.8	6.3	6.4	6.6	6.3	6.2	24	7.5	5.4	6.4
10/15/07	6.1	6.0	6.0	5.9	5.8	5.5	5.3	5.2	5.1	5.1	5.2	4.8	4.5	4.4	4.6	4.7	4.5	4.4	4.2	4.0	4.1	4.3	4.4	4.4	24	6.1	4.0	4.9
10/16/07	4.3	4.3	4.2	4.1	4.1	4.1	4.2	4.3	4.3	4.5	4.8	5.1	5.3	5.5	6.0	6.2	6.4	6.6	6.8	6.8	6.9	7.0	6.5	6.3	24	7.0	4.1	5.4
10/17/07	6.1	6.1	5.8	5.4	5.1	4.8	5.1	5.6	5.8	6.3	7.1	7.5	8.3	9.2	10.0	11.7	12.3	12.5	10.8	9.8	9.6	9.3	9.2	9.0	24	12.5	4.8	8.0
10/18/07	8.9	8.9	8.8	8.7	8.8	8.7	8.5	8.3	8.2	8.2	8.4	8.6	8.3	8.7	9.5	9.0	8.6	8.3	8.5	8.6	8.5	8.5	8.3	7.5	24	9.5	7.5	8.6
10/19/07	7.0	6.4	6.2	5.4	5.1	5.4	4.8	4.3	5.2	6.7	8.6	10.7	11.8	13.1	14.0	14.4	14.5	13.8	13.9	14.4	14.3	14.4	14.9	15.0	24	15.0	4.3	10.2
10/20/07	14.3	13.5	14.0	16.4	16.3	14.1	13.6	13.4	12.0	11.7	13.2	13.8	13.4	13.4	12.6	11.9	11.0	10.6	10.4	10.2	10.8	10.5	9.9	9.3	24	16.4	9.3	12.5
10/21/07	9.1	8.9	7.4	7.2	7.2	6.3	5.5	4.9	4.7	5.0	5.6	6.2	7.0	7.1	7.4	8.1	8.0	8.1	8.1	8.1	8.0	8.1	7.6	6.9	24	9.1	4.7	7.1
10/22/07	5.8	5.4	4.5	4.7	5.1	5.7	6.0	5.9	5.3	5.2	6.6	8.0	9.1	10.2	10.9	11.2	11.7	11.5	11.4	11.7	11.8	11.8	11.4	11.4	24	11.8	4.5	8.4
10/23/07	11.3	11.1	9.8	12.0	10.8	9.6	9.6	10.2	10.0	11.4	13.0	14.0	14.9	15.9	16.4	17.0	16.7	15.7	14.3	12.4	10.8	9.9	9.7	9.4	24	17.0	9.4	12.3
10/24/07	8.9	8.6	8.2	8.3	8.3	8.3	8.0	7.8	7.2	7.3	9.3	11.0	12.6	13.8	14.8	15.2	15.0	14.2	13.5	12.5	12.1	12.0	11.5	11.3	24	15.2	7.2	10.8
10/25/07	11.1	11.5	11.4	11.1	10.9	11.1	10.3	9.5	9.6	11.3	12.9	14.9	16.6	18.3	19.7	20.8	21.1	19.3	18.5	16.3	13.8	12.9	11.5	10.1	24	21.1	9.5	13.9
10/26/07	7.1	7.4	5.8	5.4	5.0	4.4	4.3	4.4	4.5	6.0	7.5	8.4	8.4	7.7	7.2	6.6	6.2	5.9	5.4	5.0	4.8	4.8	4.9	5.1	24	8.4	4.3	5.9
10/27/07	5.0	5.0	5.3	5.5	5.7	5.3	3.9	2.7	1.6	1.5	2.0	3.0	3.4	3.6	4.3	4.6	4.6	4.2	3.8	2.8	2.6	2.6	2.9	2.8	24	5.7	1.5	3.7
10/28/07	2.8	2.9	3.1	3.1	2.7	0.9	1.5	2.6	2.4	3.4	5.1	7.7	9.5	10.9	12.4	13.5	13.7	15.3	16.4	17.5	18.0	18.3	18.0	17.1	24	18.3	0.9	9.1
10/29/07	16.2	16.0	15.9	15.6	15.1	14.7	15.4	15.2	15.8	15.7	15.5	16.2	17.4	18.1	19.3	20.1	20.0	19.5	18.9	18.8	17.6	17.7	18.7	19.4	24	20.1	14.7	17.2
10/30/07	18.8	19.5	20.2	20.5	19.4	19.5	19.6	19.6	17.7	18.0	15.2	15.8	16.9	15.9	16.3	15.2	14.7	12.3	10.7	8.6	5.7	5.8	5.8	5.8	24	20.5	5.7	14.9
10/31/07	5.4	4.8	3.8	3.1	2.6	2.1	1.4	1.6	1.0	2.0	3.9	5.3	6.5	7.5	8.3	8.8	8.9	9.0	9.1	9.2	9.4	9.6	9.8	9.7	24	9.8	1.0	6.0
hr max	18.8	19.5	20.2	20.5	19.4	19.5	19.6	19.6	18.3	20.0	22.0	21.3	20.2	21.7	23.5	24.6	24.6	24.8	23.3	22.7	22.6	22.2	19.5	19.4				
hr min	0.5	0.7	0.8	0.7	1.1	0.9	1.4	1.5	1.0	1.5	2.0	2.5	3.2	3.6	4.3	4.6	4.5	4.2	3.8	2.8	2.6	2.6	1.6	1.0				
average	9.4	9.1	8.9	8.9	8.6	8.4	8.1	8.0	7.9	8.4	9.4	10.4	11.1	11.8	12.4	12.7	12.6	12.3	11.8	11.3	10.8	10.6	10.2	9.7				

monthly max hr	monthly min hr	monthly ave hr
24.8	0.5	10.1
10/1/07	10/11/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	*100.0%*

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
degC
10-2

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
10/1/07	5.16	3.71	3.70	2.83	2.84	2.38	1.55	0.18	-0.38	-0.71	-0.79	-0.91	-0.92	-0.83	-0.47	-0.29	-0.29	0.47	0.67	0.63	0.57	0.58	0.54	0.53	24	5.16	-0.92	0.86
10/2/07	0.47	0.40	0.54	0.52	0.20	0.29	0.31	0.16	0.02	-0.34	-0.09	-0.74	-0.96	-0.92	-0.73	-0.49	-0.14	0.42	2.63	4.07	4.23	3.93	5.03	4.54	24	5.03	-0.96	0.97
10/3/07	2.11	2.14	2.25	1.85	1.45	1.27	1.33	0.63	-0.40	-0.81	-1.15	-1.39	-1.24	-1.07	-0.86	-0.67	-0.15	1.33	4.25	5.32	2.63	2.78	2.51	0.69	24	5.32	-1.39	1.03
10/4/07	1.29	3.07	3.40	2.38	2.58	2.81	2.24	0.40	-0.55	-0.69	-0.86	-1.16	-1.15	-1.06	-0.85	-0.50	-0.10	0.30	0.63	0.44	0.34	0.28	0.26	0.32	24	3.40	-1.16	0.58
10/5/07	0.02	0.01	-0.01	0.02	-0.01	-0.02	0.01	-0.08	-0.20	-0.29	-0.34	-0.27	-0.39	-0.36	-0.33	-0.31	-0.25	-0.11	-0.04	0.00	-0.04	-0.01	-0.01	-0.02	24	0.02	-0.39	-0.13
10/6/07	-0.02	-0.02	-0.02	-0.02	0.00	0.11	0.16	0.01	-0.11	-0.51	-0.94	-1.14	-1.57	-1.41	-1.24	-0.98	-0.43	-0.17	0.00	0.00	0.16	0.06	0.05	0.03	24	0.16	-1.57	-0.33
10/7/07	0.06	0.08	0.05	0.06	0.03	0.01	0.00	-0.07	-0.05	-0.47	-0.65	-0.72	-0.75	-0.79	-0.68	-0.43	-0.16	-0.08	0.66	0.95	1.15	0.64	0.45	0.84	24	1.15	-0.79	0.01
10/8/07	1.10	1.63	1.66	1.70	1.08	1.80	1.63	0.27	-0.02	-0.44	-0.62	-1.23	-1.41	-0.88	-0.81	-0.28	-0.06	0.76	1.29	1.10	1.03	1.04	0.93	0.94	24	1.80	-1.41	0.51
10/9/07	0.87	0.78	0.64	0.58	0.62	0.68	0.92	0.18	-0.60	-1.02	-1.22	-1.36	-1.43	-1.34	-1.23	-0.87	-0.36	0.70	2.08	1.60	1.54	1.68	1.32	1.19	24	2.08	-1.43	0.25
10/10/07	1.39	1.72	1.74	1.03	1.34	1.47	0.47	0.07	-0.09	-0.30	-0.47	-0.66	-0.75	-0.92	-0.93	-0.69	-0.37	0.38	1.42	1.61	1.72	0.76	0.42	0.32	24	1.74	-0.93	0.45
10/11/07	0.27	0.25	0.25	0.22	0.26	0.22	0.18	-0.09	-0.28	-0.76	-0.96	-1.12	-1.10	-1.01	-0.91	-0.69	-0.27	0.94	1.37	1.61	1.63	1.47	1.52	2.89	24	2.89	-1.12	0.25
10/12/07	1.48	2.32	2.83	2.96	3.05	2.99	2.89	1.45	-0.35	-0.53	-0.65	-0.90	-0.87	-0.83	-0.73	-0.10	-0.22	0.75	2.08	2.40	2.01	1.14	1.12	1.16	24	3.05	-0.90	1.06
10/13/07	1.19	0.72	0.56	0.67	1.23	1.14	0.32	0.06	-0.20	-0.30	-0.40	-0.33	-0.41	-0.49	-0.26	-0.08	0.22	0.31	0.35	0.22	0.10	0.06	0.05	0.07	24	1.23	-0.49	0.20
10/14/07	0.04	0.00	0.00	-0.03	-0.03	-0.03	0.00	0.02	-0.02	-0.05	-0.14	-0.19	-0.13	-0.13	-0.12	-0.21	-0.17	0.27	0.38	0.14	0.14	0.15	0.14	0.09	24	0.38	-0.21	0.01
10/15/07	0.08	0.06	0.05	0.06	0.19	0.23	0.19	0.15	0.12	-0.05	-0.11	-0.02	-0.07	-0.08	-0.05	-0.03	0.01	0.03	0.05	0.00	-0.03	-0.01	-0.04	-0.05	24	0.23	-0.11	0.03
10/16/07	-0.05	-0.05	-0.04	-0.02	0.00	-0.01	-0.03	-0.07	-0.15	-0.22	-0.38	-0.27	-0.36	-0.37	-0.36	-0.22	-0.11	-0.06	-0.04	-0.04	-0.04	-0.05	-0.07	-0.06	24	0.00	-0.38	-0.13
10/17/07	-0.03	0.00	0.01	0.04	0.11	-0.03	-0.04	-0.07	-0.11	-0.22	-0.30	-0.27	-0.17	-0.14	-0.05	0.20	0.17	0.18	0.05	0.00	-0.01	-0.02	-0.02	-0.02	24	0.20	-0.30	-0.03
10/18/07	-0.01	0.00	0.00	0.02	-0.01	-0.03	-0.03	-0.02	-0.01	-0.02	-0.01	0.01	0.02	0.09	0.00	0.06	0.07	0.10	0.22	0.25	0.23	0.22	0.27	0.23	24	0.27	-0.03	0.07
10/19/07	0.12	0.09	0.14	0.28	0.35	0.42	0.39	0.19	-0.28	-0.69	-0.97	-1.10	-1.21	-1.03	-0.77	-0.31	0.35	1.01	1.74	2.07	1.76	1.88	1.22	0.92	24	2.07	-1.21	0.27
10/20/07	1.67	1.15	0.63	0.92	1.35	1.20	1.14	0.79	-0.01	-0.54	-1.07	-1.07	-0.94	-0.37	-0.17	-0.07	0.17	0.45	0.42	0.44	1.04	0.81	1.63	1.34	24	1.67	-1.07	0.45
10/21/07	0.57	0.55	0.30	0.26	0.27	0.30	0.19	0.14	-0.05	-0.29	-0.53	-0.91	-1.12	-0.79	-0.51	-0.30	0.03	0.42	0.96	0.94	1.12	1.22	1.15	1.01	24	1.22	-1.12	0.21
10/22/07	0.85	0.74	0.75	0.72	0.70	0.69	0.78	0.34	-0.34	-0.68	-0.93	-1.21	-1.37	-1.14	-0.80	-0.26	0.06	1.74	2.21	1.76	1.86	2.03	1.70	1.43	24	2.21	-1.37	0.48
10/23/07	1.52	1.00	0.67	0.23	0.33	0.71	0.92	0.55	0.13	-0.44	-0.70	-0.91	-1.01	-0.86	-0.62	-0.27	0.26	0.65	0.67	1.05	1.95	2.44	2.85	3.42	24	3.42	-1.01	0.61
10/24/07	2.47	1.76	3.15	4.07	4.56	3.75	4.22	2.12	-0.24	-0.67	-0.96	-1.08	-1.20	-1.03	-0.66	-0.43	0.05	0.50	0.52	0.47	0.46	0.56	0.49	0.43	24	4.56	-1.20	0.97
10/25/07	0.44	0.48	0.47	0.40	0.39	0.35	0.33	0.19	-0.18	-0.54	-0.85	-1.02	-1.08	-0.93	-0.61	-0.34	0.28	1.92	2.81	2.03	2.45	1.86	1.52	1.64	24	2.81	-1.08	0.50
10/26/07	0.75	0.87	0.45	0.45	0.42	0.31	0.31	0.29	-0.17	-0.49	-0.70	-0.84	-0.89	-0.74	-0.36	-0.11	0.02	0.08	0.13	0.21	0.32	1.49	2.59	2.42	24	2.59	-0.89	0.28
10/27/07	1.68	1.45	1.38	0.98	0.69	0.35	0.18	0.26	-0.28	-0.87	-1.22	-1.31	-1.37	-1.32	-1.10	-0.70	-0.10	1.22	2.78	2.58	2.42	2.62	2.13	1.74	24	2.78	-1.37	0.59
10/28/07	1.36	0.70	0.49	0.36	0.36	0.35	0.34	0.24	-0.29	-0.52	-0.93	-0.96	-0.98	-0.91	-0.40	-0.34	0.13	1.19	2.69	3.09	1.56	1.36	3.45	3.88	24	3.88	-0.98	0.68
10/29/07	4.32	4.64	5.90	3.17	4.73	4.39	4.20	2.78	0.02	-0.43	-0.72	-0.93	-1.06	-0.92	-0.57	-0.19	0.66	3.16	5.52	3.29	2.05	2.96	4.91	4.86	24	5.90	-1.06	2.36
10/30/07	4.83	5.09	4.75	3.33	5.37	8.71	8.26	3.16	0.57	-0.11	-0.30	-0.56	-0.26	-0.15	-0.12	0.07	0.20	0.15	0.13	0.07	0.21	0.31	0.22	0.22	24	8.71	-0.56	1.84
10/31/07	0.33	0.46	0.51	0.55	0.60	0.50	0.46	0.31	-0.22	-0.68	-1.02	-1.21	-1.22	-1.08	-0.84	-0.45	0.20	2.46	3.56	3.76	3.10	2.33	2.13	1.87	24	3.76	-1.22	0.68
hr max	5.16	5.09	5.90	4.07	5.37	8.71	8.26	3.16	0.57	-0.02	-0.01	0.01	0.02	0.09	0.00	0.20	0.66	3.16	5.52	5.32	4.23	3.93	5.03	4.86				
hr min	-0.05	-0.05	-0.04	-0.03	-0.03	-0.03	-0.04	-0.09	-0.60	-1.02	-1.22	-1.39	-1.57	-1.41	-1.24	-0.98	-0.43	-0.17	-0.04	-0.04	-0.04	-0.05	-0.07	-0.06				
average	1.17	1.15	1.20	0.99	1.13	1.20	1.09	0.47	-0.15	-0.47	-0.68	-0.83	-0.88	-0.77	-0.59	-0.33	-0.01	0.69	1.36	1.36	1.21	1.18	1.31	1.25				

monthly max hr	monthly min hr	monthly ave hr
8.71	-1.57	0.50
10/30/07	10/6/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
degC
50-10

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
10/1/07	2.78	4.43	4.77	6.17	5.74	5.02	4.22	1.46	-0.19	-0.72	-0.82	-0.94	-0.97	-0.98	-0.82	-0.66	-0.66	0.20	0.61	0.65	0.68	0.72	0.39	0.42
10/2/07	0.73	0.55	0.92	1.05	-0.15	-0.05	0.08	-0.15	-0.33	-0.60	-0.42	-0.90	-1.03	-1.03	-0.92	-0.83	-0.61	-0.03	1.28	2.20	3.60	3.98	3.63	5.08
10/3/07	6.63	7.58	7.07	5.93	4.48	6.18	4.68	2.36	-0.25	-0.61	-0.78	-0.86	-0.81	-0.84	-0.81	-0.63	-0.28	0.28	0.57	2.37	4.39	4.60	2.42	0.53
10/4/07	0.86	1.55	2.04	3.23	3.00	2.80	4.58	3.01	0.06	-0.64	-0.79	-0.87	-0.93	-0.90	-0.85	-0.67	-0.42	-0.05	0.63	0.27	0.07	0.01	-0.06	0.05
10/5/07	-0.29	-0.33	-0.33	-0.31	-0.34	-0.35	-0.33	-0.40	-0.49	-0.56	-0.56	-0.38	-0.43	-0.39	-0.34	-0.50	-0.62	-0.42	-0.37	-0.30	-0.19	-0.14	-0.15	-0.15
10/6/07	-0.16	-0.17	-0.15	-0.15	-0.13	0.04	0.29	0.42	0.06	-0.55	-0.79	-0.80	-0.86	-0.83	-0.97	-0.87	-0.69	-0.53	-0.40	-0.37	-0.21	-0.38	-0.41	-0.40
10/7/07	-0.37	-0.36	-0.38	-0.38	-0.39	-0.42	-0.41	-0.43	-0.43	-0.61	-0.71	-0.70	-0.66	-0.62	-0.61	-0.56	-0.46	-0.43	0.12	0.47	0.56	0.49	0.42	0.46
10/8/07	0.47	0.26	1.14	1.76	3.11	3.18	2.74	2.12	1.36	-0.34	-0.52	-0.65	-0.78	-0.64	-0.64	-0.44	-0.33	0.35	3.03	4.61	2.27	1.40	0.82	0.78
10/9/07	0.77	0.65	0.57	0.55	0.28	0.17	0.12	-0.13	-0.53	-0.80	-0.89	-0.85	-0.92	-0.89	-0.80	-0.68	-0.52	-0.08	1.16	1.80	2.00	1.77	1.19	0.65
10/10/07	1.10	0.94	1.43	2.08	1.68	1.17	1.17	-0.02	-0.44	-0.52	-0.59	-0.64	-0.66	-0.71	-0.73	-0.63	-0.52	-0.15	1.21	2.06	1.64	1.24	0.31	0.15
10/11/07	0.09	0.02	0.04	0.02	0.04	-0.01	-0.03	-0.28	-0.52	-0.80	-0.92	-0.97	-1.01	-0.86	-0.84	-0.68	-0.50	0.01	1.12	1.68	1.32	2.12	2.52	1.91
10/12/07	3.47	2.66	2.31	2.83	2.92	4.35	4.80	5.15	3.15	-0.44	-0.58	-0.63	-0.59	-0.61	-0.58	-0.40	-0.42	0.04	0.35	0.89	1.46	1.31	1.36	2.46
10/13/07	1.23	0.33	0.42	0.49	0.67	0.83	0.45	-0.12	-0.41	-0.50	-0.55	-0.53	-0.55	-0.61	-0.49	-0.40	-0.10	0.01	-0.04	-0.14	-0.28	-0.31	-0.31	-0.21
10/14/07	-0.18	-0.30	-0.29	-0.32	-0.30	-0.28	-0.30	-0.32	-0.34	-0.35	-0.45	-0.48	-0.46	-0.47	-0.46	-0.50	-0.47	-0.12	0.22	-0.16	-0.05	0.02	-0.02	-0.13
10/15/07	-0.19	-0.23	-0.24	-0.26	-0.15	-0.11	-0.14	-0.17	-0.25	-0.38	-0.46	-0.39	-0.41	-0.40	-0.38	-0.37	-0.35	-0.33	-0.33	-0.35	-0.36	-0.36	-0.33	-0.29
10/16/07	-0.29	-0.29	-0.33	-0.36	-0.37	-0.36	-0.32	-0.33	-0.40	-0.37	-0.46	-0.52	-0.57	-0.64	-0.65	-0.46	-0.39	-0.33	-0.30	-0.28	-0.27	-0.26	-0.28	-0.31
10/17/07	-0.34	-0.38	-0.33	-0.20	-0.02	-0.24	-0.25	-0.33	-0.41	-0.43	-0.44	-0.39	-0.32	-0.29	-0.25	0.24	0.28	0.31	-0.02	-0.25	-0.24	-0.23	-0.24	-0.27
10/18/07	-0.30	-0.31	-0.32	-0.34	-0.27	-0.23	-0.26	-0.33	-0.41	-0.55	-0.57	-0.52	-0.38	-0.34	-0.37	-0.34	-0.34	-0.32	-0.27	-0.23	-0.19	-0.21	-0.17	-0.21
10/19/07	-0.27	-0.29	-0.27	-0.14	-0.01	0.08	0.13	0.02	-0.31	-0.47	-0.55	-0.62	-0.63	-0.64	-0.50	-0.41	-0.14	1.19	2.36	3.87	4.54	5.58	4.54	5.42
10/20/07	4.40	4.16	4.91	5.95	4.29	3.13	2.58	1.71	0.52	-0.45	-0.76	-0.64	-0.62	-0.44	-0.34	-0.29	-0.13	0.15	0.29	0.24	0.38	0.53	0.22	0.66
10/21/07	0.75	1.01	0.10	-0.03	0.00	-0.03	-0.16	-0.24	-0.35	-0.48	-0.58	-0.72	-0.79	-0.71	-0.60	-0.50	-0.32	-0.04	1.13	1.57	2.70	3.54	2.90	2.64
10/22/07	2.18	2.32	1.61	2.16	1.86	2.01	2.21	3.19	0.58	-0.57	-0.67	-0.65	-0.69	-0.68	-0.62	-0.45	-0.32	0.83	2.66	3.98	4.72	5.45	5.45	5.79
10/23/07	6.31	5.04	3.77	2.58	1.96	3.41	3.09	0.92	0.04	-0.41	-0.57	-0.67	-0.69	-0.69	-0.62	-0.45	-0.09	0.58	0.73	1.12	0.96	0.81	2.00	2.56
10/24/07	3.15	2.71	1.84	1.50	1.97	3.29	3.47	3.33	0.86	-0.65	-0.80	-0.86	-0.90	-0.89	-0.80	-0.66	-0.32	0.48	1.30	1.29	1.60	1.71	1.04	0.78
10/25/07	0.59	0.54	0.53	0.67	0.68	0.56	0.51	0.37	-0.36	-0.66	-0.82	-0.85	-0.86	-0.86	-0.74	-0.57	-0.17	1.81	4.19	2.63	2.00	3.78	3.60	2.09
10/26/07	1.42	1.59	0.61	0.59	0.45	0.07	0.03	-0.01	-0.37	-0.66	-0.82	-0.90	-0.94	-0.91	-0.62	-0.43	-0.32	-0.24	-0.20	-0.06	0.04	1.55	2.44	2.81
10/27/07	3.45	3.16	3.09	4.06	3.03	2.30	0.49	0.93	-0.32	-0.66	-0.76	-0.86	-0.88	-0.84	-0.72	-0.64	-0.47	-0.03	0.34	1.14	1.63	3.15	3.71	3.32
10/28/07	3.61	3.06	1.56	0.91	0.96	0.66	0.71	0.68	-0.21	-0.60	-0.78	-0.84	-0.84	-0.82	-0.62	-0.59	0.06	2.31	3.61	4.58	6.92	8.03	7.95	4.83
10/29/07	4.32	3.16	1.59	4.23	3.61	6.10	7.12	7.03	5.60	0.42	-0.60	-0.78	-0.84	-0.77	-0.71	-0.53	0.12	2.39	3.28	4.54	3.35	2.95	2.74	2.81
10/30/07	3.52	6.51	7.05	8.38	7.14	4.14	5.10	8.42	7.59	2.80	-0.09	-0.65	-0.53	-0.37	-0.33	-0.35	-0.15	-0.23	-0.25	-0.33	-0.29	-0.14	-0.19	-0.18
10/31/07	-0.07	0.09	0.20	0.45	0.32	0.45	0.73	0.49	-0.32	-0.63	-0.76	-0.78	-0.87	-0.78	-0.77	-0.62	-0.28	0.67	1.43	3.10	4.68	5.88	7.27	5.83
hr max	6.63	7.58	7.07	8.38	7.14	6.18	7.12	8.42	7.59	2.80	-0.09	-0.38	-0.32	-0.29	-0.25	0.24	0.28	2.39	4.19	4.61	6.92	8.03	7.95	5.83
hr min	-0.37	-0.38	-0.38	-0.38	-0.39	-0.42	-0.41	-0.43	-0.53	-0.80	-0.92	-0.97	-1.03	-1.03	-0.97	-0.87	-0.69	-0.53	-0.40	-0.37	-0.36	-0.38	-0.41	-0.40
average	1.59	1.60	1.45	1.71	1.49	1.54	1.52	1.24	0.39	-0.41	-0.64	-0.70	-0.72	-0.69	-0.63	-0.51	-0.32	0.27	0.95	1.37	1.59	1.89	1.77	1.61

valid hr count	daily max hr	daily min hr	daily ave hr
24	6.17	-0.98	1.31
24	5.08	-1.03	0.67
24	7.58	-0.86	2.26
24	4.58	-0.93	0.67
24	-0.14	-0.62	-0.36
24	0.42	-0.97	-0.38
24	0.56	-0.71	-0.27
24	4.61	-0.78	1.04
24	2.00	-0.92	0.19
24	2.08	-0.73	0.44
24	2.52	-1.01	0.14
24	5.15	-0.63	1.47
24	1.23	-0.61	-0.05
24	0.22	-0.50	-0.27
24	-0.11	-0.46	-0.30
24	-0.26	-0.65	-0.38
24	0.31	-0.44	-0.21
24	-0.17	-0.57	-0.32
24	5.58	-0.64	0.94
24	5.95	-0.76	1.27
24	3.54	-0.79	0.45
24	5.79	-0.69	1.76
24	6.31	-0.69	1.32
24	3.47	-0.90	1.02
24	4.19	-0.86	0.78
24	2.81	-0.94	0.21
24	4.06	-0.88	1.15
24	8.03	-0.84	1.88
24	7.12	-0.84	2.55
24	8.42	-0.65	2.36
24	7.27	-0.87	1.07

monthly max hr	monthly min hr	monthly ave hr
8.42	-1.03	0.72
10/30/07	10/2/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
degC
100-50

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
10/1/07	0.49	0.19	0.17	0.29	0.67	1.12	2.76	4.11	1.26	-0.46	-0.60	-0.62	-0.66	-0.62	-0.62	-0.56	-0.56	-0.10	0.30	0.52	0.64	0.48	0.14	0.17	24	4.11	-0.66	0.35
10/2/07	0.33	0.45	0.95	0.42	-0.33	-0.27	-0.14	-0.28	-0.42	-0.53	-0.45	-0.65	-0.70	-0.69	-0.66	-0.63	-0.57	-0.32	0.21	0.62	0.53	0.40	0.43	0.61	24	0.95	-0.70	-0.07
10/3/07	0.97	0.78	1.82	3.10	3.79	3.29	2.42	1.29	2.08	0.59	-0.54	-0.60	-0.60	-0.59	-0.57	-0.58	-0.46	-0.37	-0.14	0.06	0.14	0.67	0.70	0.16	24	3.79	-0.60	0.73
10/4/07	0.09	0.31	0.94	0.97	1.18	2.50	0.99	2.00	1.84	-0.53	-0.57	-0.62	-0.59	-0.61	-0.58	-0.57	-0.51	-0.35	0.16	0.07	-0.15	-0.19	-0.24	-0.22	24	2.50	-0.62	0.22
10/5/07	-0.39	-0.42	-0.40	-0.44	-0.44	-0.44	-0.43	-0.47	-0.50	-0.51	-0.48	-0.28	-0.27	-0.26	-0.26	-0.22	-0.34	-0.49	-0.45	-0.28	-0.18	-0.07	-0.15	-0.09	24	-0.07	-0.51	-0.34
10/6/07	-0.14	-0.16	-0.13	-0.08	-0.08	0.18	0.95	0.46	-0.02	-0.51	-0.61	-0.60	-0.62	-0.55	-0.63	-0.66	-0.55	-0.51	-0.47	-0.44	-0.16	-0.41	-0.49	-0.41	24	0.95	-0.66	-0.28
10/7/07	-0.43	-0.44	-0.43	-0.44	-0.45	-0.47	-0.46	-0.46	-0.52	-0.52	-0.52	-0.53	-0.51	-0.51	-0.51	-0.51	-0.50	-0.48	-0.44	-0.41	-0.34	-0.36	-0.29	-0.26	24	-0.26	-0.53	-0.45
10/8/07	-0.26	0.07	0.49	0.83	1.26	1.10	0.68	0.99	0.33	-0.14	-0.42	-0.57	-0.56	-0.52	-0.56	-0.52	-0.54	-0.27	0.22	1.25	2.00	2.05	1.02	0.93	24	2.05	-0.57	0.37
10/9/07	0.89	0.43	0.53	0.74	0.14	-0.07	-0.29	-0.15	-0.43	-0.49	-0.55	-0.55	-0.54	-0.54	-0.53	-0.55	-0.52	-0.37	-0.19	0.53	0.53	1.14	1.27	0.68	24	1.27	-0.55	0.05
10/10/07	0.73	0.71	0.89	0.78	0.67	1.09	0.41	-0.30	-0.49	-0.51	-0.52	-0.54	-0.52	-0.56	-0.51	-0.51	-0.53	-0.44	-0.16	0.39	0.72	1.32	0.54	0.33	24	1.32	-0.56	0.12
10/11/07	0.19	0.14	0.12	0.26	0.21	0.23	0.10	0.01	-0.42	-0.53	-0.57	-0.60	-0.60	-0.56	-0.56	-0.53	-0.50	-0.37	0.83	0.97	1.26	1.55	1.42	2.08	24	2.08	-0.60	0.17
10/12/07	1.85	1.87	1.55	1.64	2.43	1.04	0.50	1.38	1.23	0.16	-0.55	-0.59	-0.54	-0.57	-0.51	-0.52	-0.52	-0.42	-0.24	-0.09	0.28	1.03	1.35	0.78	24	2.43	-0.59	0.52
10/13/07	1.88	0.48	0.41	0.44	0.73	1.65	1.17	0.15	-0.16	-0.42	-0.46	-0.48	-0.46	-0.51	-0.49	-0.43	-0.17	-0.26	-0.36	-0.36	-0.41	-0.42	-0.29	-0.09	24	1.88	-0.51	0.05
10/14/07	0.19	0.10	-0.21	-0.27	-0.21	-0.26	-0.25	-0.24	-0.37	-0.42	-0.46	-0.50	-0.50	-0.49	-0.50	-0.51	-0.50	-0.37	-0.18	-0.30	-0.13	-0.11	-0.34	-0.24	24	0.19	-0.51	-0.29
10/15/07	-0.28	-0.29	-0.34	-0.36	-0.32	-0.30	-0.31	-0.32	-0.38	-0.41	-0.48	-0.46	-0.46	-0.44	-0.44	-0.45	-0.45	-0.43	-0.45	-0.41	-0.36	-0.40	-0.32	-0.31	24	-0.28	-0.48	-0.38
10/16/07	-0.31	-0.30	-0.32	-0.32	-0.33	-0.32	-0.31	-0.32	-0.32	-0.31	-0.33	-0.32	-0.35	-0.40	-0.47	-0.57	-0.52	-0.37	-0.31	-0.30	-0.29	-0.29	-0.30	-0.31	24	-0.29	-0.57	-0.35
10/17/07	-0.31	-0.37	-0.43	0.01	0.25	-0.18	-0.25	-0.25	-0.33	-0.31	-0.33	-0.32	-0.30	-0.26	-0.28	-0.51	-0.07	0.69	0.17	-0.23	-0.22	-0.25	-0.25	-0.27	24	0.69	-0.51	-0.19
10/18/07	-0.25	-0.25	-0.25	-0.26	-0.27	-0.27	-0.28	-0.25	-0.28	-0.28	-0.24	-0.33	-0.46	-0.43	-0.45	-0.41	-0.38	-0.36	-0.32	-0.32	-0.34	-0.34	-0.33	-0.35	24	-0.24	-0.46	-0.32
10/19/07	-0.41	-0.42	-0.37	-0.22	-0.04	0.08	0.30	0.25	-0.11	-0.48	-0.54	-0.59	-0.60	-0.54	-0.56	-0.56	-0.49	-0.25	0.43	0.60	0.75	0.89	2.54	1.94	24	2.54	-0.60	0.07
10/20/07	2.14	1.86	2.24	3.11	2.45	1.08	1.46	2.37	1.43	-0.24	-0.54	-0.56	-0.56	-0.52	-0.50	-0.49	-0.40	-0.18	0.04	0.07	-0.21	-0.01	-0.17	-0.25	24	3.11	-0.56	0.57
10/21/07	0.55	0.57	0.09	-0.14	-0.13	-0.18	-0.26	-0.32	-0.42	-0.48	-0.52	-0.56	-0.58	-0.56	-0.54	-0.51	-0.46	-0.30	0.31	0.59	0.39	0.30	0.91	0.74	24	0.91	-0.58	-0.06
10/22/07	1.11	1.07	1.55	1.03	1.65	1.88	2.39	1.61	1.70	-0.18	-0.52	-0.55	-0.54	-0.50	-0.56	-0.53	-0.51	-0.25	-0.14	0.20	0.73	0.48	0.65	1.00	24	2.39	-0.56	0.53
10/23/07	0.91	1.20	1.68	3.92	3.02	1.70	1.68	1.22	0.16	-0.46	-0.58	-0.62	-0.65	-0.61	-0.59	-0.54	-0.40	0.06	0.44	0.58	0.75	0.16	-0.01	0.05	24	3.92	-0.65	0.54
10/24/07	0.18	1.15	1.86	1.27	0.23	0.22	0.13	0.74	1.13	-0.39	-0.62	-0.59	-0.59	-0.56	-0.55	-0.57	-0.47	0.19	0.78	1.48	1.78	1.55	1.15	1.17	24	1.86	-0.62	0.44
10/25/07	1.07	0.80	0.92	1.49	1.69	1.78	1.70	1.14	-0.17	-0.59	-0.60	-0.65	-0.63	-0.62	-0.60	-0.58	-0.37	0.13	0.50	1.01	1.34	1.80	2.35	3.49	24	3.49	-0.65	0.68
10/26/07	1.27	1.49	0.44	0.11	0.01	-0.17	-0.17	-0.17	-0.33	-0.53	-0.58	-0.63	-0.63	-0.62	-0.54	-0.49	-0.43	-0.41	-0.39	-0.27	-0.02	0.17	-0.01	0.01	24	1.49	-0.63	-0.12
10/27/07	-0.02	-0.03	0.27	0.83	2.05	1.34	1.42	0.41	-0.19	-0.49	-0.52	-0.54	-0.55	-0.55	-0.57	-0.54	-0.50	-0.39	-0.37	-0.24	-0.11	-0.11	0.11	-0.07	24	2.05	-0.57	0.03
10/28/07	-0.06	0.63	2.23	2.89	2.75	1.40	2.16	2.54	0.87	-0.28	-0.57	-0.59	-0.60	-0.58	-0.54	-0.52	-0.20	0.49	0.63	1.52	1.08	0.54	0.18	0.66	24	2.89	-0.60	0.69
10/29/07	0.11	-0.04	0.32	1.05	1.13	0.87	1.31	1.98	1.77	1.79	-0.08	-0.50	-0.58	-0.57	-0.57	-0.53	-0.28	-0.28	-0.10	0.35	0.45	1.25	2.41	3.15	24	3.15	-0.58	0.60
10/30/07	2.40	1.10	1.48	2.25	1.25	0.95	1.38	2.50	2.80	4.40	1.21	-0.46	-0.47	-0.24	-0.30	-0.42	-0.28	-0.39	-0.39	-0.44	-0.33	-0.25	-0.32	-0.30	24	4.40	-0.47	0.71
10/31/07	-0.24	-0.09	0.14	0.38	0.10	0.52	0.56	1.12	-0.05	-0.54	-0.58	-0.59	-0.59	-0.60	-0.60	-0.55	-0.43	-0.14	-0.13	0.17	0.13	0.32	0.84	1.83	24	1.83	-0.60	0.04
hr max	2.40	1.87	2.24	3.92	3.79	3.29	2.76	4.11	2.80	4.40	1.21	-0.28	-0.27	-0.24	-0.26	-0.22	-0.07	0.69	0.83	1.52	2.00	2.05	2.54	3.49				
hr min	-0.43	-0.44	-0.43	-0.44	-0.45	-0.47	-0.46	-0.47	-0.52	-0.59	-0.62	-0.65	-0.70	-0.69	-0.66	-0.66	-0.57	-0.51	-0.47	-0.44	-0.41	-0.42	-0.49	-0.41				
average	0.46	0.41	0.59	0.82	0.81	0.68	0.69	0.73	0.34	-0.15	-0.44	-0.54	-0.54	-0.52	-0.52	-0.52	-0.43	-0.24	-0.01	0.22	0.33	0.42	0.47	0.54				

monthly max hr	monthly min hr	monthly ave hr
4.40	-0.70	0.15
10/30/07	10/2/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
ppb
NOx

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
10/1/07	3.8	4.0	4.1	4.1	3.9	3.7	3.7	3.8	3.8	3.7	4.2	4.9	4.8	4.9	5.4	5.6	5.6	5.6	5.6	5.2	5.1	5.2	5.3		23	5.6	3.7	4.6
10/2/07	5.3			6.0	6.1	6.1	5.7	5.2	4.9	4.7	4.8	4.5	4.5	4.5	4.4	4.5	4.8	5.3	5.8	6.1	7.0	6.8	6.1		21	7.0	4.4	5.4
10/3/07	5.0	4.7	4.4	4.2	3.8	3.7	3.6	4.0	3.6	3.4	4.6	5.2	4.9	5.0	5.1	5.1	7.5	5.9	8.0	7.2	5.9	6.7	5.9		23	8.0	3.4	5.1
10/4/07	5.9	6.2	6.0	5.6	5.6	4.8	4.8	4.7	4.5	3.7	4.2	4.2	4.4	4.8	4.7	4.7	4.7	4.9	5.0	5.0	4.9	5.1	5.3		23	6.2	3.7	4.9
10/5/07	5.7	5.5	5.6	5.6	5.7	5.6	5.6	5.8	6.1	6.1	6.3	6.3	6.4	6.3	6.6	6.7	6.6	6.8	6.8	6.7	6.3	6.2	6.0		23	6.8	5.5	6.1
10/6/07	5.9	6.0	6.0	5.8	5.7	5.6	5.4	5.7	5.3	5.1	5.2	5.8	6.1	5.9	5.8	5.9	6.2	7.1	7.4	7.7	8.2	9.4	9.2		23	9.4	5.1	6.4
10/7/07	6.7	5.3	5.1	5.1	6.0	4.9	4.0	3.9	4.4	5.3	4.4	4.3	4.7	4.6	4.3	4.3	4.3	4.2	4.4	4.6	4.8	5.0	4.8		23	6.7	3.9	4.8
10/8/07	3.9	4.0	4.1	4.0	3.9	3.8	3.8	5.0	4.6	5.0	3.7	3.7	4.5	4.5	4.3	4.3	4.2	4.1	4.7	4.7	4.7	4.7	4.3		23	5.0	3.7	4.3
10/9/07	4.2			4.3	4.3	3.9	4.3	5.1	5.5	5.3	4.8	4.6	4.7	4.8	4.8	5.0	4.9	5.1	5.8	5.7	5.0	4.4	4.2		21	5.8	3.9	4.8
10/10/07	3.7	3.5	3.2	3.1	3.1	3.0	3.4	2.9	2.8	2.7	2.8	3.0	3.2	3.2	3.2	3.2	3.1	3.2	3.3	3.3	3.5	3.2	3.2		23	3.7	2.7	3.2
10/11/07	2.8	2.7	2.6	2.7	2.4	2.3	2.3	2.6	2.7	3.4	4.2	4.0	4.1	4.7	4.7	4.7	4.5	4.7	4.7	5.0	5.2	5.0	5.4		23	5.4	2.3	3.8
10/12/07	4.6	4.0	3.9	3.7	3.8	3.9	4.7	4.8	4.3	3.8	4.3	4.3	4.3	4.4	4.5	4.4	4.3	5.3	6.8	6.7	7.0	7.4	7.1		23	7.4	3.7	4.9
10/13/07	6.0	5.0	4.4	4.3	4.6	4.6	4.1	3.7	4.2	4.2	4.2	4.5	4.3	4.2	4.1	4.7	5.1	6.0	5.8	5.4	5.3	5.0	5.0		23	6.0	3.7	4.7
10/14/07	4.7	4.8	4.9	5.0	4.9	4.8	4.9	4.7	4.6	4.7	4.7	4.6	4.7	5.1	4.6	4.1	3.8	3.8	3.8	3.8	3.8	3.9	4.1		23	5.1	3.8	4.5
10/15/07	3.8	4.1	4.2	4.2	4.3	4.2	3.8	3.8	3.7	3.8	3.7	3.7	3.8	4.2	4.3	4.4	4.2	4.2	3.8	3.8	3.6	3.6	3.5		23	4.4	3.5	3.9
10/16/07	3.2			3.2	3.3	3.2	3.2	3.2	3.2	3.3	3.7	3.7	3.7	3.7	3.6	3.8	3.9	3.9	4.2	4.1	4.2	4.0	3.7		21	4.2	3.2	3.6
10/17/07	3.5	3.7	3.8	3.7	3.7	3.6	3.4	3.5	3.7	4.2	4.2	4.3	4.7	4.8	4.8	4.9	4.8	5.0	5.6	5.7	5.8	5.7	5.6		23	5.8	3.4	4.5
10/18/07	7.3	6.3	5.8	5.8	5.9	6.1	5.2	4.9	4.9	5.1	5.3	4.8	4.6	4.4	4.5	5.0	5.1	4.7	4.7	4.5	4.8	4.8	4.5		23	7.3	4.4	5.2
10/19/07	3.7	3.7	3.7	3.6	3.5	3.1	2.9	3.3	3.3	3.5	3.7	3.8	4.4	4.3	4.3	4.3	4.4	4.7	5.0	5.1	4.7	4.4	4.1		23	5.1	2.9	4.0
10/20/07	3.9	4.1	4.1	3.9	3.7	3.8	3.9	4.2	4.4	4.4	4.6	4.4	4.4	4.3	4.6	4.5	4.8	5.1	5.1	4.9	4.5	4.5	4.3		23	5.1	3.7	4.4
10/21/07	4.3	4.1	4.1	4.3	4.3	4.4	5.8	5.4	5.5	4.7	3.8	4.1	4.1	5.0	5.2	5.2	5.3	5.0	4.2	4.0	3.5	3.6	3.2		23	5.8	3.2	4.5
10/22/07	2.7	2.7	2.7	2.5	2.2	2.3	2.2	5.1	4.7	3.3	4.1	3.8	4.1	4.7	4.3	4.4	4.5	5.7	8.2	7.9	6.0	4.7	4.1		23	8.2	2.2	4.2
10/23/07	3.6			3.2	3.1	3.3	3.2	3.3	3.4	3.8	4.4	4.6	4.5	4.5	4.5	4.5	4.7	5.1	5.3	5.1	5.3	5.3	4.7		21	5.3	3.1	4.3
10/24/07	4.4	3.6	3.3	3.2	3.0	2.9	3.4	3.3	3.4	3.2	3.3	3.9	4.4	4.3	4.3	4.1	4.2	4.4	4.3	4.8	4.8	4.8	4.4		23	4.8	2.9	3.9
10/25/07	4.2	4.2	4.2	4.2	4.2	4.1	4.2	4.2	4.5	4.8	5.2	5.3	5.1	5.1	5.0	5.1	5.2	5.0	5.1	5.1	5.9	6.8	6.5		23	6.8	4.1	4.9
10/26/07	5.3	4.8	4.6	4.4	4.2	4.2	3.8	3.5	3.7	3.8	3.8	3.9	4.4	4.9	5.2	5.1	5.3	5.1	4.4	4.4	4.2	4.2	4.2		23	5.3	3.5	4.4
10/27/07	3.0	2.5	2.5	2.7	2.6	2.5	2.4	2.5	2.6	3.9	4.2	4.3	4.1	4.2	3.8	3.8	3.9	5.0	4.9	5.0	3.4	2.6	2.2		23	5.0	2.2	3.4
10/28/07	2.2	2.2	2.1	2.1	2.1	1.9	1.9	2.2	2.6	3.2	3.6	4.2	4.8	5.2	5.2	5.1	5.0	6.3	5.9	7.9	7.0	5.5	5.5		23	7.9	1.9	4.1
10/29/07	4.3	3.8	3.7	3.7	3.5	3.8	3.8	3.7	4.0	4.6	4.9	5.2	5.0	5.3	4.9	4.8	6.6	6.1	6.4	6.1	6.2	6.2	6.5		23	6.6	3.5	4.9
10/30/07	5.6			5.4	4.9	4.7	4.9	4.9	5.2	4.9	4.9	5.2	5.1	5.2	6.1	5.8	6.0	6.5	5.8	6.5	6.4	4.9	4.3		21	6.5	4.3	5.4
10/31/07	3.9	3.5	3.3	3.1	2.8	2.5	2.3	2.4	2.9	3.1	3.3	3.9	3.8	3.9	4.3	4.8	5.0		9.4	6.4	4.9	4.8	3.7		22	9.4	2.3	4.0
hr max	7.3	6.3	6.0	6.0	6.1	6.1	5.8	5.8	6.1	6.1	6.3	6.3	6.4	6.3	6.6	6.7	7.5	7.1	9.4	7.9	8.2	9.4	9.2	0.0				
hr min	2.2	2.2	2.1	2.1	2.1	1.9	1.9	2.2	2.6	2.7	2.8	3.0	3.2	3.2	3.2	3.2	3.1	3.2	3.3	3.3	3.4	2.6	2.2	0.0				
average	4.4	4.2	4.1	4.1	4.0	3.9	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.7	4.7	4.7	4.9	5.1	5.5	5.4	5.2	5.1	4.9	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
9.40	1.90	4.55
10/6/07	10/28/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	702
possible hours	744
data capture	94.4%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
ppb
NO

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
10/1/07	2.7	2.5	2.6	2.6	2.6	2.4	2.2	2.6	2.6	2.7	3.3	3.8	3.8	3.9	4.4	4.7	4.7	4.6	4.5	4.0	3.8	3.8	3.8		23	4.7	2.2	3.4
10/2/07	3.9			4.1	4.1	3.9	3.8	4.2	4.1	4.1	3.9	3.8	4.0	4.1	3.9	3.9	3.9	3.7	3.6	3.7	3.8	3.8	3.7		21	4.2	3.6	3.9
10/3/07	2.9	2.6	2.7	2.7	2.5	2.3	2.3	2.6	2.6	2.6	3.4	4.0	3.9	4.0	4.2	4.3	5.4	4.3	4.0	3.4	3.4	3.4	3.6		23	5.4	2.3	3.4
10/4/07	3.9	4.2	4.2	4.0	3.7	3.0	2.7	2.9	2.9	3.0	3.7	3.7	3.8	4.0	4.0	3.9	3.8	3.7	3.7	3.5	3.7	3.7	3.8		23	4.2	2.7	3.6
10/5/07	4.1	4.2	4.2	4.2	4.2	4.1	4.2	4.1	4.2	4.1	4.1	4.2	4.2	4.1	4.1	4.2	4.0	3.8	3.8	3.7	3.7	3.8	3.9		23	4.2	3.7	4.1
10/6/07	3.9	4.1	4.2	4.2	4.2	4.2	4.0	4.1	4.1	3.9	4.0	4.4	4.6	4.7	4.7	4.7	4.7	5.3	4.9	4.2	4.1	4.2	4.2		23	5.3	3.9	4.3
10/7/07	3.4	3.1	3.2	3.1	3.1	3.0	3.0	3.1	3.2	3.7	3.4	3.1	3.2	3.1	2.9	2.7	2.6	2.4	2.5	2.6	2.7	2.7	2.7		23	3.7	2.4	3.0
10/8/07	2.4	2.6	2.7	2.6	2.4	2.3	2.2	3.2	2.9	3.3	2.7	2.8	3.6	3.5	3.5	3.4	3.4	3.3	3.5	3.5	3.6	3.7	3.7		23	3.7	2.2	3.1
10/9/07	3.6			3.3	3.0	2.4	2.2	2.8	3.3	3.2	3.2	3.5	3.7	3.6	3.5	3.5	3.2	3.2	3.3	3.2	2.8	2.2	2.2		21	3.7	2.2	3.1
10/10/07	2.1	2.1	2.1	2.1	2.1	2.0	1.9	2.1	2.1	2.1	2.2	2.4	2.7	2.7	2.7	2.6	2.5	2.5	2.4	2.2	2.2	1.9	1.7		23	2.7	1.7	2.2
10/11/07	1.6	1.7	1.6	1.6	1.3	1.3	1.2	1.5	1.8	2.3	2.9	3.0	3.2	3.6	3.7	3.5	3.4	3.3	3.4	3.6	3.2	2.7	2.7		23	3.7	1.2	2.5
10/12/07	2.2	2.2	2.1	2.0	2.1	2.0	1.8	2.4	2.6	2.7	3.3	3.4	3.3	3.4	3.6	3.4	3.3	3.3	3.2	3.3	3.6	3.7	4.0		23	4.0	1.8	2.9
10/13/07	3.6	3.2	2.7	2.6	2.5	2.2	2.2	2.2	2.6	2.7	2.9	2.8	2.7	2.7	2.6	3.0	3.4	3.7	3.7	3.4	3.2	2.7	2.7		23	3.7	2.2	2.9
10/14/07	2.6	2.7	2.9	2.9	2.9	2.7	2.7	2.7	2.7	2.6	2.8	3.0	3.1	3.0	2.9	2.7	2.7	2.7	2.6	2.5	2.3	2.6	2.6		23	3.1	2.3	2.7
10/15/07	2.3	2.5	2.6	2.5	2.4	2.3	2.2	2.1	2.2	2.4	2.5	2.6	2.6	2.6	2.6	2.6	2.4	2.3	2.2	2.1	2.1	2.1	2.2		23	2.6	2.1	2.4
10/16/07	2.3			2.2	2.4	2.3	2.2	2.2	2.3	2.3	2.6	2.8	2.9	2.9	2.7	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.7		21	2.9	2.2	2.6
10/17/07	2.7	2.8	2.8	2.9	2.7	2.7	2.7	2.7	2.7	2.8	3.0	3.1	3.2	3.2	3.2	3.6	3.7	3.9	3.9	3.9	3.8	3.7	3.7		23	3.9	2.7	3.2
10/18/07	4.2	4.0	3.8	3.6	3.4	3.2	3.2	3.2	3.5	3.8	3.8	3.7	3.3	3.2	3.1	3.2	3.2	3.2	2.9	3.0	3.0	2.9	3.0		23	4.2	2.9	3.4
10/19/07	2.7	2.6	2.7	2.7	2.6	2.3	2.1	2.3	2.5	2.7	3.1	3.2	3.8	3.8	3.9	3.7	3.7	3.8	4.1	4.2	3.8	3.5	3.2		23	4.2	2.1	3.2
10/20/07	3.2	3.1	3.0	2.9	2.9	3.1	3.1	3.2	3.4	3.6	4.0	3.9	3.8	3.8	3.8	3.8	3.9	4.0	4.2	4.2	4.0	3.7	3.5		23	4.2	2.9	3.6
10/21/07	3.5	3.2	3.1	3.0	2.8	2.7	2.7	2.7	3.0	2.9	2.7	2.9	3.1	3.6	3.7	3.6	3.4	3.2	2.7	2.4	2.2	2.1	2.0		23	3.7	2.0	2.9
10/22/07	2.1	1.8	1.7	1.7	1.6	1.4	1.4	1.7	2.5	2.4	2.9	3.1	3.4	4.0	3.8	3.7	3.8	4.0	3.9	3.3	2.8	2.6	2.6		23	4.0	1.4	2.7
10/23/07	2.4			2.3	2.2	2.2	2.2	2.4	2.8	3.2	3.8	4.1	3.8	3.9	3.8	3.8	3.8	3.7	3.6	3.6	3.7	3.4	3.1		21	4.1	2.2	3.2
10/24/07	2.6	2.3	2.2	2.1	2.0	1.7	1.7	1.8	2.2	2.3	2.7	3.3	3.7	3.6	3.5	3.3	3.3	3.2	3.3	3.7	3.8	3.6	3.2		23	3.8	1.7	2.8
10/25/07	3.2	3.2	3.2	3.2	3.2	3.1	2.9	3.0	3.3	3.7	4.2	4.2	4.2	4.1	4.0	4.0	3.8	3.7	3.5	3.8	3.9	4.1	3.7		23	4.2	2.9	3.6
10/26/07	3.2	2.8	2.6	2.6	2.4	2.3	2.1	2.2	2.4	2.6	2.8	3.1	3.6	4.1	4.3	3.9	3.8	3.4	2.7	2.6	2.8	2.6	2.3		23	4.3	2.1	2.9
10/27/07	1.9	1.7	1.5	1.5	1.5	1.5	1.4	1.5	1.6	2.5	2.7	2.7	2.7	3.0	2.8	3.0	3.0	2.8	2.2	1.9	1.7	1.6	1.2		23	3.0	1.2	2.1
10/28/07	1.4	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.6	2.1	2.6	3.1	3.5	4.0	4.2	4.0	3.7	3.7	3.9	3.8	3.5	3.3	3.2		23	4.2	1.2	2.6
10/29/07	3.2	3.0	3.0	2.8	2.7	2.7	2.4	2.3	2.7	3.3	3.9	4.1	4.0	3.9	3.7	3.7	3.8	3.7	3.6	3.9	4.1	4.1	4.3		23	4.3	2.3	3.4
10/30/07	3.9			3.6	3.2	2.9	2.8	2.9	3.3	3.3	3.6	4.0	3.8	3.8	4.2	4.1	4.1	4.1	3.9	4.1	3.8	3.3	3.1		21	4.2	2.8	3.6
10/31/07	3.1	2.7	2.7	2.3	2.2	1.8	1.6	1.7	1.9	2.2	2.7	3.0	3.2	3.2	3.7	4.3	4.3		3.8	3.3	2.8	2.6	2.2		22	4.3	1.6	2.8
hr max	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.2	4.4	4.6	4.7	4.7	4.7	5.4	5.3	4.9	4.2	4.1	4.2	4.3	0.0				
hr min	1.4	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.6	2.1	2.2	2.4	2.6	2.6	2.6	2.6	2.4	2.3	2.2	1.9	1.7	1.6	1.2	0.0				
average	2.9	2.8	2.7	2.7	2.6	2.5	2.4	2.6	2.8	2.9	3.2	3.4	3.5	3.6	3.6	3.6	3.6	3.5	3.4	3.3	3.2	3.1	3.0	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
5.4	1.2	3.1
10/3/07	10/27/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	702
possible hours	744
data capture	94.4%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
ppb
NO2

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
10/1/07	1.3	1.7	1.7	1.7	1.6	1.4	1.5	1.4	1.2	1.2	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.4	1.6	1.7	1.7	1.7		23	1.7	1.1	1.4
10/2/07	1.6			2.2	2.3	2.4	2.1	1.3	1.2	0.9	0.9	0.8	0.7	0.7	0.6	0.8	1.0	1.7	2.4	2.5	3.3	3.1	2.5		21	3.3	0.6	1.7
10/3/07	2.2	2.3	2.0	1.8	1.6	1.5	1.5	1.8	1.1	1.1	1.3	1.4	1.2	1.1	1.2	1.1	2.3	1.8	4.2	4.0	2.8	3.4	2.5		23	4.2	1.1	2.0
10/4/07	2.2	2.2	2.1	1.9	2.2	1.9	2.3	2.0	1.7	0.9	0.8	0.8	0.9	0.9	0.9	1.0	1.2	1.4	1.6	1.8	1.6	1.5	1.8		23	2.3	0.8	1.5
10/5/07	1.9	1.6	1.6	1.6	1.7	1.7	1.7	1.8	2.1	2.2	2.4	2.5	2.4	2.4	2.7	2.7	2.7	3.2	3.1	3.1	2.8	2.5	2.2		23	3.2	1.6	2.3
10/6/07	2.1	2.1	2.0	1.9	1.8	1.7	1.6	1.8	1.5	1.4	1.5	1.6	1.7	1.5	1.3	1.3	1.6	2.1	2.7	3.6	4.3	5.3	5.2		23	5.3	1.3	2.2
10/7/07	3.5	2.5	2.1	2.2	3.2	2.1	1.3	1.1	1.5	1.8	1.3	1.3	1.6	1.7	1.7	1.8	1.9	2.0	2.1	2.3	2.4	2.5	2.3		23	3.5	1.1	2.0
10/8/07	1.7	1.7	1.6	1.7	1.7	1.6	1.7	2.1	1.9	1.9	1.1	1.1	1.2	1.2	1.1	1.0	0.9	1.0	1.4	1.3	1.2	1.0	0.8		23	2.1	0.8	1.4
10/9/07	0.8			1.1	1.4	1.6	2.2	2.5	2.4	2.3	1.7	1.2	1.3	1.5	1.6	1.7	1.8	2.2	2.7	2.8	2.5	2.4	2.3		21	2.8	0.8	1.9
10/10/07	1.7	1.6	1.3	1.1	1.2	1.3	1.6	1.1	0.9	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.7	0.8	1.1	1.3	1.6	1.6	1.6		23	1.7	0.7	1.1
10/11/07	1.4	1.2	1.3	1.4	1.3	1.2	1.2	1.1	1.1	1.2	1.4	1.2	1.2	1.2	1.3	1.2	1.2	1.6	1.5	1.7	2.2	2.4	2.9		23	2.9	1.1	1.5
10/12/07	2.5	2.1	2.1	2.0	2.0	2.0	3.0	2.6	1.7	1.4	1.2	1.1	1.2	1.2	1.1	1.2	1.1	2.1	3.7	3.5	3.7	3.8	3.3		23	3.8	1.1	2.2
10/13/07	2.5	2.1	2.0	2.0	2.4	2.4	2.0	1.6	1.7	1.6	1.6	1.8	1.8	1.7	1.7	1.8	1.9	2.5	2.3	2.2	2.4	2.5	2.5		23	2.5	1.6	2.0
10/14/07	2.4	2.4	2.2	2.3	2.1	2.3	2.4	2.1	1.9	2.2	2.2	1.8	1.8	2.3	1.8	1.6	1.3	1.2	1.5	1.5	1.6	1.6	1.7		23	2.4	1.2	1.9
10/15/07	1.6	1.7	1.8	1.7	2.0	2.0	1.7	1.7	1.6	1.5	1.3	1.3	1.4	1.7	2.0	2.1	1.9	1.9	1.7	1.8	1.7	1.6	1.4		23	2.1	1.3	1.7
10/16/07	1.1			1.0	1.0	1.0	1.0	1.2	1.0	1.1	1.1	1.1	1.1	1.0	1.1	1.2	1.3	1.5	1.7	1.6	1.6	1.3	1.2		21	1.7	1.0	1.2
10/17/07	0.8	1.1	1.2	1.1	1.1	1.0	1.0	1.0	1.2	1.5	1.3	1.3	1.6	1.8	2.0	1.6	1.3	1.3	1.9	2.1	2.1	2.1	2.0		23	2.1	0.8	1.5
10/18/07	3.2	2.5	2.3	2.4	2.8	3.1	2.3	1.9	1.7	1.6	1.7	1.3	1.4	1.4	1.5	2.0	2.1	1.7	1.8	1.7	2.0	2.1	1.8		23	3.2	1.3	2.0
10/19/07	1.2	1.1	1.1	1.2	1.1	0.8	0.9	1.1	1.0	0.9	0.8	0.8	0.7	0.6	0.6	0.7	0.9	1.0	1.0	1.1	1.1	1.1	1.1		23	1.2	0.6	1.0
10/20/07	0.9	1.2	1.3	1.2	0.9	1.0	1.1	1.2	1.2	1.0	0.7	0.7	0.7	0.7	0.8	0.9	1.0	1.4	1.2	0.9	0.7	1.0	1.0		23	1.4	0.7	1.0
10/21/07	1.2	1.0	1.3	1.5	1.5	1.6	3.3	2.8	2.7	2.0	1.3	1.3	1.3	1.6	1.7	1.8	2.1	2.0	1.6	1.8	1.4	1.5	1.4		23	3.3	1.0	1.7
10/22/07	0.9	1.0	1.0	0.9	0.9	1.0	0.9	3.4	2.4	1.2	1.3	0.9	0.8	0.8	0.7	0.8	0.8	2.0	4.3	4.9	3.3	2.3	1.7		23	4.9	0.7	1.7
10/23/07	1.3			1.1	1.0	1.2	1.2	1.0	0.8	0.7	0.7	0.7	0.7	0.8	0.8	0.9	1.0	1.6	2.0	1.7	1.7	2.0	2.0		21	2.0	0.7	1.2
10/24/07	2.0	1.4	1.4	1.3	1.3	1.3	1.8	1.5	1.3	0.9	0.8	0.8	0.8	1.0	0.9	0.9	1.0	1.3	1.1	1.2	1.2	1.4	1.4		23	2.0	0.8	1.2
10/25/07	1.2	1.2	1.2	1.2	1.2	1.3	1.4	1.5	1.4	1.4	1.2	1.3	1.2	1.2	1.2	1.3	1.5	1.5	1.8	1.5	2.2	3.0	2.8		23	3.0	1.2	1.5
10/26/07	2.3	2.2	2.1	2.0	1.9	2.0	1.8	1.6	1.4	1.3	1.2	1.0	1.0	1.0	1.1	1.3	1.7	1.9	1.7	2.0	1.6	1.7	2.1		23	2.3	1.0	1.6
10/27/07	1.2	1.0	1.2	1.4	1.4	1.2	1.2	1.3	1.2	1.6	1.7	1.6	1.5	1.4	1.1	1.0	1.1	2.4	2.8	3.2	2.0	1.3	1.2		23	3.2	1.0	1.5
10/28/07	1.0	1.0	0.8	0.9	1.0	0.9	0.9	1.0	1.2	1.3	1.2	1.4	1.4	1.3	1.3	1.3	1.5	2.8	2.0	4.2	3.7	2.4	2.3		23	4.2	0.8	1.6
10/29/07	1.4	1.1	0.8	0.9	0.8	1.3	1.6	1.6	1.4	1.4	1.1	1.4	1.3	1.5	1.3	1.3	3.0	2.7	2.9	2.4	2.4	2.2	2.4		23	3.0	0.8	1.7
10/30/07	1.8			2.0	1.9	1.9	2.2	2.2	2.1	1.8	1.6	1.4	1.4	1.6	2.0	1.9	2.1	2.5	2.0	2.6	2.8	1.8	1.3		21	2.8	1.3	1.9
10/31/07	1.1	0.9	0.9	0.9	0.7	0.8	0.8	1.0	1.1	0.9	0.9	1.1	0.9	0.9	0.8	0.7	0.8		5.7	3.3	2.2	2.2	1.6		22	5.7	0.7	1.4
hr max	3.5	2.5	2.3	2.4	3.2	3.1	3.3	3.4	2.7	2.3	2.4	2.5	2.4	2.4	2.7	2.7	3.0	3.2	5.7	4.9	4.3	5.3	5.2	0.0				
hr min	0.8	0.9	0.8	0.9	0.7	0.8	0.8	1.0	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.8	1.0	0.9	0.7	1.0	0.8	0.0				
average	1.7	1.6	1.6	1.5	1.6	1.6	1.7	1.7	1.5	1.4	1.3	1.2	1.2	1.3	1.3	1.3	1.5	1.8	2.2	2.3	2.2	2.1	2.0	#DIV/0!				

monthly	monthly	monthly
max hr	min hr	ave hr
5.7	0.6	1.6
10/31/07	10/2/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	702
possible hours	744
data capture	94.4%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
ppb
SO2

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
10/1/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	1.0	0.1	0.1
10/2/07	0.1			0.1	1.2	2.0	1.6	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		21	2.0	0.1	0.4
10/3/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0	0.1	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	1.0	0.1	0.2
10/4/07	1.6	1.1	1.1	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	1.6	0.1	0.3
10/5/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
10/6/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
10/7/07	1.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0	1.1	1.2	1.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	1.5	0.1	0.3
10/8/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
10/9/07	0.1			0.1	0.1	0.1	0.1	0.1	2.0	3.0	1.8	1.2	1.4	1.9	2.1	2.7	2.3	2.1	0.1	0.1	0.1	0.1	0.1		21	3.0	0.1	1.0
10/10/07	0.1	1.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	1.5	0.1	0.2
10/11/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.3	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	1.3	0.1	0.2
10/12/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
10/13/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
10/14/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
10/15/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
10/16/07	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		21	0.1	0.1	0.1
10/17/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
10/18/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
10/19/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
10/20/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
10/21/07	0.1	0.1	0.1	0.1	0.1	0.1	1.2	0.1	1.1	1.3	1.2	1.1	1.1	1.0	1.2	2.0	2.0	1.4	0.1	1.0	0.1	0.1	0.1		23	2.0	0.1	0.7
10/22/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.1	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	1.1	0.1	0.2
10/23/07	0.1			1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0	0.1	1.0	0.1	1.0	1.0	1.1	0.1	0.1	0.1		21	1.1	0.1	0.4
10/24/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0	0.1	0.1	0.1	1.0	1.1	1.0	0.1	0.1	0.1	0.1	0.1	0.1		23	1.1	0.1	0.3
10/25/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.1	1.0	1.0	1.1	1.1	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	1.1	0.1	0.4
10/26/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0	1.0	0.1	0.1	1.0	0.1	0.1	0.1		23	1.0	0.1	0.2
10/27/07	0.1	0.1	1.0	0.1	1.1	1.0	0.1	1.0	1.1	1.5	2.0	1.9	2.2	1.9	1.1	1.1	1.3	1.3	1.4	1.0	1.1	1.0	1.0		23	2.2	0.1	1.1
10/28/07	1.0	1.1	1.1	1.0	1.1	1.0	1.1	0.1	1.0	1.1	1.1	1.3	1.1	1.2	1.1	1.2	1.2	1.3	1.0	1.0	1.2	1.1	1.3		23	1.3	0.1	1.1
10/29/07	0.1	1.2	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.2	1.3	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.0	1.1	0.1		23	1.3	0.1	1.0
10/30/07	0.1			1.0	1.1	0.1	1.1	1.0	0.1	1.1	1.1	1.3	1.2	1.2	1.0	1.2	1.1	1.5	1.3	1.2	1.0	0.1	0.1		21	1.5	0.1	0.9
10/31/07	1.1	1.1	0.1	1.2	1.0	1.1	0.1	1.1	1.0	1.1	1.1	1.1	1.3	1.4	1.3	1.0	1.1		1.0	1.0	1.2	1.1	1.0		22	1.4	0.1	1.0
hr max	1.6	1.5	1.1	1.2	1.2	2.0	1.6	1.1	2.0	3.0	2.0	1.9	2.2	1.9	2.1	2.7	2.3	2.1	1.4	1.2	1.2	1.1	1.3	0.0				
hr min	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0				
average	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.5	0.5	0.5	0.6	0.5	0.4	0.3	0.3	0.3	0.2	0.2	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
3.0	0.1	0.4
10/9/07	10/1/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	702
possible hours	744
data capture	94.4%

Max 3 hr ave.	2.4	10/9/07 15:00
Max 24 hr ave.	1.3	10/27/07 8:00

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
ppb
O3

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
10/1/07	20.0	17.3	17.1	14.9	13.7	15.1	15.5	18.1	23.7	28.8	34.5	37.4	39.1	41.0	47.0	47.7	47.7	49.2	46.3	43.0	40.9	40.0	39.9		23	49.2	13.7	32.1
10/2/07	34.2		45.6	28.7	30.8	30.6	30.5	31.0	30.1	28.9	30.4	31.7	33.4	33.8	35.0	35.0	35.1	33.0	28.5	25.8	19.4	22.0	20.8		22	45.6	19.4	30.7
10/3/07	17.9	16.6	17.6	18.0	20.3	20.4	23.4	23.8	25.8	26.0	29.6	33.2	35.6	40.7	44.0	44.4	43.1	38.9	40.3	36.7	34.0	32.8	32.9		23	44.4	16.6	30.3
10/4/07	30.0	26.8	25.5	23.1	22.2	20.8	20.2	19.3	24.2	33.3	35.3	36.7	38.8	39.6	40.8	39.9	39.4	38.9	35.0	33.7	33.8	33.2	31.7		23	40.8	19.3	31.4
10/5/07	28.2	27.6	27.5	26.4	25.3	24.4	23.7	22.8	22.6	22.4	21.4	19.1	17.7	16.7	15.2	14.0	13.2	12.2	12.4	11.0	10.9	9.2	8.8		23	28.2	8.8	18.8
10/6/07	9.0	8.2	8.5	8.1	9.7	11.7	17.4	20.2	21.1	24.7	28.9	27.5	26.0	27.4	24.8	17.8	8.8	7.0	8.9	8.6	6.7	4.3	3.8		23	28.9	3.8	14.7
10/7/07	7.8	9.2	9.2	9.1	7.5	9.2	11.2	12.1	11.9	12.4	14.7	15.0	13.7	13.2	14.0	14.5	14.2	14.2	12.4	9.7	9.1	8.5	6.1		23	15.0	6.1	11.3
10/8/07	7.6	8.1	5.0	4.8	5.0	3.9	4.3	3.4	8.4	12.4	18.6	27.9	28.6	31.7	36.2	34.1	29.6	24.8	18.6	16.7	18.8	20.0	20.7		23	36.2	3.4	16.9
10/9/07	18.2		36.9	17.7	18.0	17.9	13.4	11.4	14.5	20.1	26.3	36.2	36.0	34.0	33.1	31.1	34.6	32.8	25.3	19.2	19.1	18.3	18.4		22	36.9	11.4	24.2
10/10/07	15.3	15.3	14.0	13.2	13.8	13.6	11.2	18.6	22.1	22.8	23.6	23.5	23.0	24.0	25.0	25.8	27.9	27.7	21.4	16.7	14.5	14.9	14.7		23	27.9	11.2	19.2
10/11/07	10.9	12.6	12.9	12.6	13.9	14.6	14.4	14.3	15.1	15.6	20.4	24.0	26.4	28.7	30.8	32.8	32.6	28.5	19.3	18.2	16.7	14.7	14.3		23	32.8	10.9	19.3
10/12/07	10.4	10.0	13.6	14.8	12.3	12.1	12.1	10.6	13.5	22.8	28.1	30.5	32.4	33.8	34.3	35.2	35.9	33.4	29.6	30.9	25.4	21.0	20.0		23	35.9	10.0	22.7
10/13/07	14.3	14.5	13.0	12.3	10.2	9.5	10.0	12.4	9.6	10.4	11.7	12.3	14.0	15.8	17.0	16.7	15.1	13.6	12.8	12.2	11.3	11.6	11.1		23	17.0	9.5	12.7
10/14/07	9.3	8.6	8.6	8.4	8.4	9.5	13.0	16.4	19.2	20.9	21.6	21.8	22.0	22.8	24.4	26.9	29.2	26.7	22.9	22.0	20.5	19.7	18.4		23	29.2	8.4	18.3
10/15/07	18.6	18.6	18.6	18.5	18.3	17.1	16.6	16.7	17.3	17.4	18.8	21.9	21.9	18.7	17.1	18.5	19.9	21.1	23.0	21.9	21.0	20.6	20.6		23	23.0	16.6	19.2
10/16/07	20.0		36.9	18.8	18.3	18.6	17.9	17.1	17.9	17.9	17.4	17.1	17.0	16.6	16.2	15.7	15.3	13.4	12.7	11.4	11.2	11.8	12.2		22	36.9	11.2	16.9
10/17/07	13.2	14.1	20.1	17.9	15.9	16.7	17.6	18.4	16.4	13.2	13.3	12.9	12.0	13.1	16.7	32.1	37.2	32.2	15.6	10.9	9.8	9.6	9.4		23	37.2	9.4	16.9
10/18/07	5.7	5.9	6.1	5.8	5.9	6.1	6.6	7.0	7.9	7.9	8.8	12.4	18.6	26.0	26.2	19.8	11.3	11.7	14.4	17.4	17.2	18.6	20.3		23	26.2	5.7	12.5
10/19/07	24.4	23.8	22.2	19.4	21.0	24.7	23.2	21.5	24.6	27.2	31.6	34.8	36.8	37.1	37.2	37.2	36.5	29.8	28.3	26.0	25.4	21.8	24.2		23	37.2	19.4	27.8
10/20/07	23.4	23.9	23.1	22.2	24.7	24.9	22.5	21.0	21.5	24.4	34.9	38.4	38.0	35.0	33.0	32.6	29.1	27.9	26.7	32.7	37.2	28.5	24.8		23	38.4	21.0	28.3
10/21/07	22.4	21.9	23.8	25.7	27.3	24.9	20.3	20.5	20.4	22.4	25.1	25.9	28.3	26.7	25.5	27.5	27.6	28.4	25.1	24.6	22.9	21.7	21.7		23	28.4	20.3	24.4
10/22/07	22.0	21.8	21.1	22.2	22.8	23.2	22.3	18.1	20.9	25.0	25.2	28.2	28.7	29.9	32.9	32.5	33.5	27.8	22.9	21.4	20.8	20.6	21.4		23	33.5	18.1	24.6
10/23/07	18.9		37.8	20.7	20.9	16.8	16.3	18.8	19.4	20.6	21.8	23.1	24.9	28.6	29.3	30.6	29.6	28.9	28.1	26.5	25.5	24.6	24.1		22	37.8	16.3	24.4
10/24/07	19.5	22.5	21.8	28.0	29.5	18.6	13.2	17.4	23.4	28.5	31.3	32.5	34.5	34.4	34.5	33.6	33.5	30.3	28.8	26.3	25.3	25.1	25.5		23	34.5	13.2	26.9
10/25/07	25.3	24.8	24.0	22.5	21.6	21.5	20.7	20.8	22.7	24.3	25.5	27.2	29.9	32.3	34.6	36.0	35.5	29.4	25.0	26.5	22.7	16.6	13.5		23	36.0	13.5	25.3
10/26/07	13.5	14.5	15.3	15.0	15.6	15.8	18.4	23.0	24.5	28.1	30.9	33.0	33.7	34.2	33.0	31.8	30.1	28.6	27.1	25.1	24.1	19.8	18.7		23	34.2	13.5	24.1
10/27/07	22.5	25.0	24.6	20.9	21.3	23.4	23.5	22.1	22.6	23.0	24.5	28.1	31.0	32.7	35.9	37.8	35.5	30.3	30.9	26.3	27.5	26.1	26.4		23	37.8	20.9	27.0
10/28/07	26.9	27.9	28.3	28.8	26.9	26.9	25.3	24.8	24.4	24.4	24.5	25.6	26.3	27.8	29.6	30.8	28.5	25.7	26.2	23.1	24.6	26.3	22.4		23	30.8	22.4	26.3
10/29/07	28.2	31.9	35.2	33.3	35.9	25.3	20.3	20.8	24.1	30.8	35.2	34.1	35.1	35.2	38.5	41.5	38.1	34.6	30.4	31.1	32.6	31.6	31.7		23	41.5	20.3	32.0
10/30/07	29.7		43.4	24.5	23.8	26.0	23.9	22.0	20.3	23.5	29.4	33.1	35.1	31.7	31.2	28.0	28.3	33.7	38.0	30.3	19.7	20.2	24.3		22	43.4	19.7	28.2
10/31/07	25.6	25.3	24.7	24.2	25.6	24.7	23.3	23.3	24.0	25.8	28.1	30.6	33.2	34.7	35.5	35.4	33.9	29.0	24.9	22.1	23.8	23.4	21.7		23	35.5	21.7	27.1
hr max	34.2	31.9	45.6	33.3	35.9	30.6	30.5	31.0	30.1	33.3	35.3	38.4	39.1	41.0	47.0	47.7	47.7	49.2	46.3	43.0	40.9	40.0	39.9	0.0				
hr min	5.7	5.9	5.0	4.8	5.0	3.9	4.3	3.4	7.9	7.9	8.8	12.3	12.0	13.1	14.0	14.0	8.8	7.0	8.9	8.6	6.7	4.3	3.8	0.0				
average	19.1	18.3	22.0	18.7	18.9	18.3	17.8	18.3	19.8	22.1	24.9	27.0	28.1	29.0	30.0	30.2	29.3	27.2	24.6	22.8	21.7	20.6	20.1	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
49.2	3.4	23.0
10/1/07	10/8/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	708
possible hours	744
data capture	95.2%

Max 8 hr ave. 45.5 10/1/07 14:00

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
DegC
StnT

data channel DegC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
10/1/07	22	22	22	22	22	22	22	22	22	22	23	23	23	24	24	24	24	24	24	24	23	23	23	24	24	24.0	21.8	22.9
10/2/07	23	24	24	24	24	23	24	24	24	24	24	23	23	23	24	23	23	23	23	24	24	24	23	23	24	23.8	23.2	23.5
10/3/07	23	22	22	22	22	22	22	22	22	22	23	23	23	23	24	24	24	24	24	23	23	23	23	24	24	23.9	21.9	22.9
10/4/07	24	24	24	23	23	23	22	22	22	23	23	23	23	24	24	24	23	23	23	23	24	24	24	24	24	23.8	22.0	23.2
10/5/07	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23	24	24	24	24	24	23.9	23.4	23.6
10/6/07	24	24	23	24	23	23	23	23	23	23	24	24	24	24	24	24	24	24	24	24	24	24	23	23	24	24.2	23.3	23.6
10/7/07	23	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	24	22.8	21.9	22.0
10/8/07	22	22	22	22	22	22	21	22	22	22	22	22	23	23	23	23	23	23	23	24	24	24	24	24	24	23.8	21.4	22.6
10/9/07	24	24	24	24	23	23	22	22	22	22	23	23	23	23	23	23	23	23	24	24	23	22	22	22	24	23.9	21.9	23.0
10/10/07	22	22	21	21	21	21	21	21	21	22	22	22	22	22	22	22	22	22	22	22	22	21	21	21	24	22.2	20.9	21.6
10/11/07	21	21	21	21	21	21	21	21	21	21	22	22	23	23	23	23	23	23	23	24	23	23	22	22	24	23.5	20.7	22.0
10/12/07	22	22	22	21	21	21	21	22	22	22	23	23	23	23	23	23	23	23	23	23	24	24	24	24	24	23.8	21.4	22.7
10/13/07	24	23	23	22	22	22	22	22	22	22	22	22	22	22	22	23	23	23	23	23	23	22	22	23	24	23.5	21.8	22.5
10/14/07	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	24	22.4	22.1	22.3
10/15/07	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	24	22.3	21.7	22.0
10/16/07	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	24	22.4	21.8	22.1
10/17/07	22	22	22	22	22	22	22	22	22	22	22	22	22	22	23	23	23	23	23	23	23	23	23	24	24	23.6	22.0	22.6
10/18/07	24	23	23	23	23	22	22	22	22	22	22	23	22	22	22	22	22	22	22	22	22	22	22	22	24	23.5	22.2	22.5
10/19/07	22	22	22	22	22	22	22	21	22	22	22	23	23	23	23	23	23	23	24	24	23	23	23	23	24	23.7	21.4	22.6
10/20/07	23	22	22	22	22	22	22	22	23	23	23	23	23	23	23	23	24	24	24	24	23	23	23	23	24	23.8	22.1	22.9
10/21/07	23	23	23	22	22	22	22	22	22	22	22	22	23	23	23	23	23	23	23	22	22	22	22	22	24	23.0	21.8	22.4
10/22/07	22	21	21	21	21	21	21	21	21	22	22	22	23	23	24	24	24	24	24	23	23	22	22	22	24	23.6	20.8	22.2
10/23/07	22	22	23	22	22	22	22	22	22	22	23	23	23	23	23	24	23	23	23	24	24	23	23	23	24	23.6	21.7	22.8
10/24/07	22	22	22	22	22	21	21	21	22	22	22	23	23	23	23	23	23	23	24	24	24	23	23	23	24	23.6	21.2	22.6
10/25/07	23	23	23	23	23	23	22	22	23	23	23	23	23	24	24	24	24	23	23	23	24	24	23	23	24	23.6	22.4	23.1
10/26/07	23	22	22	22	22	22	22	22	22	22	22	23	23	23	24	24	23	23	23	22	22	22	22	22	24	23.7	21.5	22.4
10/27/07	22	21	21	21	21	21	21	21	21	21	22	22	22	22	23	23	23	23	22	22	21	21	21	21	24	22.9	20.8	21.6
10/28/07	21	21	21	20	20	20	20	20	21	21	21	22	22	23	23	23	23	24	24	24	23	23	23	23	24	23.7	20.3	21.9
10/29/07	23	22	22	22	22	22	22	22	22	23	23	23	23	24	24	24	24	23	23	24	24	24	24	24	24	23.8	21.7	23.0
10/30/07	24	23	24	23	23	22	22	22	22	22	23	23	23	23	23	23	23	23	24	24	23	23	23	23	24	23.9	22.2	23.0
10/31/07	22	22	22	22	21	21	21	21	21	21	22	22	22	22	23	23	24	24	23	23	22	22	22	22	24	23.9	20.7	22.0
hr max	23.8	23.8	23.9	23.7	23.8	23.8	23.9	23.8	23.8	23.7	23.7	23.9	24.1	24.1	24.2	24.2	24.0	24.0	23.9	23.7	23.7	23.8	23.8	23.8				
hr min	20.9	20.7	20.5	20.4	20.4	20.3	20.3	20.3	20.6	20.9	21.3	21.9	22.0	21.9	21.9	22.0	21.9	21.9	21.8	21.8	21.4	21.1	20.9	20.9				
average	22.5	22.4	22.3	22.2	22.0	21.9	21.9	21.9	22.0	22.2	22.5	22.7	22.9	23.0	23.1	23.2	23.2	23.1	23.1	23.1	22.9	22.8	22.6	22.7				

monthly max hr	monthly min hr	monthly ave hr
24.2	20.3	22.6
10/6/07	10/28/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
w/m2
solar

data
channel
w/m2

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	24 hr	total
10/1/07	0	0	0	0	0	0	7	105	271	423	540	610	639	618	541	425	425	104	5	0	0	0	0	0	24	639	4712	4712
10/2/07	0	0	0	0	0	0	5	38	114	290	106	497	632	612	546	427	273	100	5	0	0	0	0	0	24	632	3643	3643
10/3/07	0	0	0	0	0	0	6	69	231	341	521	628	600	602	530	414	246	94	0	0	0	0	0	0	24	628	4281	4281
10/4/07	0	0	0	0	0	0	5	93	255	394	480	587	613	597	517	391	248	86	0	0	0	0	0	0	24	613	4263	4263
10/5/07	0	0	0	0	0	0	0	33	70	90	86	88	102	79	65	46	39	7	0	0	0	0	0	0	24	102	706	706
10/6/07	0	0	0	0	0	0	0	82	233	377	491	554	579	555	486	364	91	24	0	0	0	0	0	0	24	579	3835	3835
10/7/07	0	0	0	0	0	0	0	13	51	237	277	256	208	208	179	103	27	12	0	0	0	0	0	0	24	277	1574	1574
10/8/07	0	0	0	0	0	0	5	31	60	247	295	572	593	432	483	269	241	69	0	0	0	0	0	0	24	593	3295	3295
10/9/07	0	0	0	0	0	0	0	78	231	381	498	569	595	570	495	378	226	67	0	0	0	0	0	0	24	595	4087	4087
10/10/07	0	0	0	0	0	0	0	17	50	94	148	201	223	292	303	214	191	67	0	0	0	0	0	0	24	303	1799	1799
10/11/07	0	0	0	0	0	0	0	90	180	349	467	539	518	451	435	336	198	54	0	0	0	0	0	0	24	539	3616	3616
10/12/07	0	0	0	0	0	0	0	71	216	368	469	545	448	497	350	149	190	51	0	0	0	0	0	0	24	545	3352	3352
10/13/07	0	0	0	0	0	0	0	36	104	118	134	93	127	164	90	52	12	0	0	0	0	0	0	0	24	164	928	928
10/14/07	0	0	0	0	0	0	0	7	24	47	95	148	130	152	131	155	144	46	0	0	0	0	0	0	24	155	1079	1079
10/15/07	0	0	0	0	0	0	0	11	34	98	130	99	72	52	42	35	18	9	0	0	0	0	0	0	24	130	603	603
10/16/07	0	0	0	0	0	0	0	8	30	41	107	83	118	115	107	51	18	5	0	0	0	0	0	0	24	118	684	684
10/17/07	0	0	0	0	0	0	0	15	48	84	122	105	61	49	20	14	6	0	0	0	0	0	0	0	24	122	525	525
10/18/07	0	0	0	0	0	0	0	5	19	47	47	63	45	44	124	30	23	5	0	0	0	0	0	0	24	124	451	451
10/19/07	0	0	0	0	0	0	0	54	199	346	460	527	549	519	445	322	161	31	0	0	0	0	0	0	24	549	3612	3612
10/20/07	0	0	0	0	0	0	0	27	132	243	447	476	432	194	138	102	27	5	0	0	0	0	0	0	24	476	2222	2222
10/21/07	0	0	0	0	0	0	0	12	94	185	261	439	510	369	276	202	83	19	0	0	0	0	0	0	24	510	2452	2452
10/22/07	0	0	0	0	0	0	0	54	185	332	439	514	533	485	411	198	174	26	0	0	0	0	0	0	24	533	3352	3352
10/23/07	0	0	0	0	0	0	0	45	122	303	420	490	514	484	409	290	112	14	0	0	0	0	0	0	24	514	3204	3204
10/24/07	0	0	0	0	0	0	0	42	172	316	425	484	508	474	386	304	146	24	0	0	0	0	0	0	24	508	3279	3279
10/25/07	0	0	0	0	0	0	0	40	173	314	424	488	510	480	403	285	139	21	0	0	0	0	0	0	24	510	3276	3276
10/26/07	0	0	0	0	0	0	0	34	163	298	405	468	509	457	186	63	13	0	0	0	0	0	0	0	24	509	2596	2596
10/27/07	0	0	0	0	0	0	0	26	164	309	420	486	509	481	406	287	139	20	0	0	0	0	0	0	24	509	3249	3249
10/28/07	0	0	0	0	0	0	0	37	166	250	412	447	438	423	277	255	108	13	0	0	0	0	0	0	24	447	2826	2826
10/29/07	0	0	0	0	0	0	0	30	154	295	404	469	490	461	385	267	122	10	0	0	0	0	0	0	24	490	3087	3087
10/30/07	0	0	0	0	0	0	0	18	68	175	222	333	213	146	155	112	31	0	0	0	0	0	0	0	24	333	1474	1474
10/31/07	0	0	0	0	0	0	0	29	153	295	404	469	491	459	380	259	117	14	0	0	0	0	0	0	24	491	3071	3071
hr max	0	0	0	0	0	0	7	105	271	423	540	628	639	618	546	427	425	104	5	0	0	0	0	0				
hr min	0	0	0	0	0	0	0	5	19	41	47	63	45	44	20	14	6	0	0	0	0	0	0	0				
average	0	0	0	0	0	0	1	40	134	248	328	398	404	372	313	219	129	32	0	0	0	0	0	0				

monthly	monthly	monthly
max hr	Max24hr	Total
639	4712	81131
10/1/07	10/1/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
mmhg
BP

data
channel
mmhg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
10/1/07	709	709	709	709	709	709	708	708	708	707	706	705	704	703	702	701	701	700	700	699	699	699	698	697	24	709	697.3	704.2
10/2/07	697	696	696	696	696	697	698	699	700	701	701	702	702	702	702	702	702	703	703	703	703	703	703	703	24	703	695.9	700.4
10/3/07	703	703	703	702	702	701	701	701	701	700	700	699	699	698	698	698	697	697	697	698	698	699	699	700	24	703	697.2	699.7
10/4/07	701	701	701	702	702	703	703	704	704	705	705	705	704	704	704	704	704	704	705	705	705	705	704	704	24	705	700.5	703.6
10/5/07	704	703	703	703	703	702	702	702	702	702	702	701	701	701	701	701	701	701	701	701	701	701	700	700	24	704	700.3	701.6
10/6/07	700	699	699	699	698	698	698	698	698	698	698	698	699	699	699	699	700	700	700	699	701	702	702	703	24	703	697.7	699.2
10/7/07	704	704	704	705	705	706	706	707	707	707	708	708	708	708	707	707	708	707	707	707	707	707	707	707	24	708	703.7	706.6
10/8/07	706	706	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	706	706	707	707	24	707	704.6	705.3
10/9/07	707	708	708	709	710	711	711	712	713	713	714	714	714	713	713	713	713	713	713	714	714	714	714	714	24	714	707.4	712.1
10/10/07	714	714	714	714	714	714	714	714	714	714	714	714	713	713	712	712	711	711	711	711	711	711	711	711	24	714	710.6	712.7
10/11/07	711	710	710	710	709	709	708	708	708	708	708	707	706	706	705	705	705	705	706	706	706	706	706	706	24	711	705.4	707.3
10/12/07	706	706	706	706	706	706	706	706	706	706	706	705	705	705	704	704	704	704	704	704	704	705	705	705	24	706	703.7	705.2
10/13/07	705	705	705	705	705	705	705	705	706	706	706	706	706	705	705	706	706	706	706	706	706	707	707	707	24	707	704.7	705.6
10/14/07	707	707	707	707	707	707	707	708	708	708	709	709	709	708	708	708	708	708	709	709	709	709	709	709	24	709	706.6	708.1
10/15/07	708	708	707	707	707	707	707	707	707	706	706	706	705	705	705	705	705	705	704	704	704	704	704	703	24	708	703.2	705.6
10/16/07	703	703	702	702	702	702	702	702	702	702	701	701	701	700	700	700	700	700	700	700	700	700	700	699	24	703	699.4	700.9
10/17/07	699	699	698	698	698	697	696	696	696	696	695	694	694	693	693	692	692	692	693	693	692	692	692	691	24	699	691.4	694.7
10/18/07	691	691	691	690	690	690	690	690	690	691	691	691	691	692	692	693	693	694	694	695	695	695	695	695	24	695	690.1	692.1
10/19/07	695	696	696	696	696	696	697	697	697	697	697	697	696	696	696	696	696	696	696	696	696	696	695	695	24	697	695.1	695.9
10/20/07	695	694	695	695	695	695	695	695	696	696	695	696	696	696	696	696	696	696	697	698	699	699	699	699	24	699	694.4	696.1
10/21/07	699	700	700	701	701	702	703	703	704	705	706	706	706	707	707	708	709	710	711	711	712	712	713	713	24	713	699.3	706.1
10/22/07	713	713	713	713	713	713	713	713	713	713	713	712	712	711	710	710	710	709	709	709	709	709	709	708	24	713	708.2	711.1
10/23/07	708	708	707	707	707	707	707	707	708	708	709	709	709	709	709	710	710	711	711	712	713	713	714	714	24	714	706.6	709.3
10/24/07	714	714	715	714	714	714	715	715	715	714	714	714	713	712	711	711	710	710	710	710	709	709	708	708	24	715	707.9	712.2
10/25/07	707	707	706	706	705	705	705	705	705	705	705	705	704	704	704	704	704	704	705	705	705	706	706	706	24	707	703.7	705.1
10/26/07	707	707	707	708	708	708	709	710	711	711	712	712	712	713	713	714	714	715	715	716	716	717	717	717	24	717	706.8	711.9
10/27/07	717	718	717	717	717	717	717	718	718	719	719	719	719	719	718	718	718	718	718	718	718	718	718	718	24	719	717.1	717.9
10/28/07	718	717	717	716	716	715	714	714	714	713	713	713	712	712	711	711	711	711	711	712	711	711	712	712	24	718	710.9	713.1
10/29/07	712	711	711	711	711	711	711	711	711	711	710	710	709	708	708	707	707	707	706	706	706	706	705	705	24	712	704.9	708.8
10/30/07	705	704	704	704	703	703	703	703	702	702	701	700	700	699	698	699	700	702	703	705	706	707	708	709	24	709	698.4	702.9
10/31/07	709	710	710	711	711	711	712	712	712	713	713	713	713	713	712	712	712	711	711	711	711	711	711	711	24	713	709.4	711.6
hr max	717.5	717.5	717.4	717.1	717.1	717.3	717.4	717.7	718.3	718.7	718.9	718.9	718.6	718.5	718.3	718.2	718.0	717.8	717.8	718.0	718.1	718.1	717.9	717.7				
hr min	691.1	690.8	690.5	690.3	690.1	690.1	690.2	690.3	690.4	690.5	690.8	691.1	691.4	691.8	692.3	692.3	692.3	692.3	692.5	692.6	692.4	692.2	691.8	691.4				
average	705.6	705.5	705.4	705.3	705.3	705.4	705.4	705.5	705.7	705.8	705.7	705.6	705.4	705.0	704.8	704.8	704.9	705.0	705.2	705.3	705.6	705.7	705.7	705.6				

monthly	monthly	monthly
max hr	min hr	ave hr
719	690.1	705.4
10/27/07	10/18/07	

Validated by:	Roger L Thompson	Date:	1/3/08
Analyst:	Denise Hazelman	Date:	1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
%
RH

data
channel
%

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
10/1/07	68.7	69.6	72.6	78.6	81.1	81.5	82.4	71.7	60.0	51.0	41.3	37.0	36.2	35.7	31.8	31.0	31.0	35.2	42.9	50.5	56.5	55.7	54.2	59.0	24	82.4	31.0	54.8
10/2/07	63.4	65.2	68.8	66.5	57.6	47.0	45.0	44.9	43.1	42.7	56.4	49.7	37.3	31.6	27.8	28.5	29.0	33.7	50.8	61.9	69.5	65.5	67.8	71.0	24	71.0	27.8	51.0
10/3/07	73.0	76.1	74.9	73.8	68.7	70.7	64.2	61.6	55.9	51.0	37.2	28.5	26.0	22.1	20.9	21.6	23.8	31.0	37.2	45.1	48.7	51.8	53.4	50.4	24	76.1	20.9	48.7
10/4/07	55.9	68.5	72.8	77.3	81.6	84.3	85.3	79.4	64.3	41.5	36.5	34.0	31.9	30.3	29.8	31.4	34.2	39.7	49.8	53.0	53.6	54.0	55.6	58.5	24	85.3	29.8	54.3
10/5/07	56.1	53.4	54.7	58.3	60.2	62.8	67.8	72.1	76.4	79.8	87.6	96.4	96.3	95.9	96.4	95.0	92.1	92.6	93.5	94.0	97.0	98.0	98.3	98.4	24	98.4	53.4	82.2
10/6/07	98.4	98.5	98.6	98.8	98.8	98.8	98.8	97.2	88.2	73.0	58.6	58.9	60.9	58.7	61.8	69.0	84.0	86.2	85.7	86.0	93.2	96.5	95.7	95.3	24	98.8	58.6	85.0
10/7/07	95.7	94.1	94.6	93.8	94.2	94.0	94.3	95.8	93.3	88.8	81.9	80.5	81.6	81.9	80.0	79.5	81.4	82.9	86.7	91.9	94.5	94.3	94.2	94.8	24	95.8	79.5	89.4
10/8/07	95.1	95.2	95.8	96.7	97.0	98.1	98.6	97.7	96.3	88.7	82.3	65.7	64.3	57.4	47.9	48.9	47.3	54.7	70.7	78.6	67.9	60.6	56.6	61.2	24	98.6	47.3	76.0
10/9/07	66.3	68.1	72.0	77.1	80.2	83.1	90.0	88.4	80.9	72.0	65.3	57.6	53.7	52.6	53.2	55.6	56.5	62.1	77.3	84.4	86.1	88.2	89.6	92.7	24	92.7	52.6	73.0
10/10/07	95.4	96.7	97.8	97.8	97.8	97.7	98.2	96.4	93.3	93.0	89.7	85.6	81.4	76.8	74.0	73.6	69.7	71.8	84.8	92.3	95.1	95.7	94.8	96.8	24	98.2	69.7	89.4
10/11/07	97.7	97.7	97.4	97.6	96.6	95.6	95.2	93.4	88.5	80.9	69.9	61.6	56.6	53.3	50.8	50.2	51.1	58.6	78.4	83.9	87.1	90.7	91.9	94.0	24	97.7	50.2	79.9
10/12/07	96.8	97.6	97.1	97.5	97.5	97.0	95.8	92.7	86.7	64.4	51.0	46.8	45.4	42.7	44.1	46.3	45.3	52.3	62.9	64.6	70.8	75.6	80.0	86.5	24	97.6	42.7	72.4
10/13/07	90.6	91.8	93.5	94.8	96.3	97.3	97.4	95.9	95.3	92.3	88.8	85.6	82.4	78.2	77.3	77.6	81.0	84.5	91.3	93.1	94.7	95.0	95.3	96.1	24	97.4	77.3	90.3
10/14/07	96.8	97.2	97.5	97.6	97.8	97.9	97.9	97.7	96.9	96.1	95.1	93.5	91.7	87.6	83.0	78.5	74.9	80.4	87.0	87.1	88.1	88.1	88.5	89.7	24	97.9	74.9	91.1
10/15/07	87.0	86.2	86.2	85.8	88.4	91.5	92.4	91.0	89.8	88.5	86.4	90.2	93.6	95.5	95.6	95.2	94.8	95.0	95.0	96.3	97.4	96.9	97.5	98.3	24	98.3	85.8	92.3
10/16/07	98.5	98.6	98.7	98.6	98.4	98.3	98.3	98.4	98.3	98.2	98.0	97.3	96.1	94.5	93.8	94.0	94.3	95.9	97.2	97.9	98.2	98.4	98.4	98.5	24	98.7	93.8	97.4
10/17/07	98.5	98.5	97.8	98.1	98.8	98.9	99.0	98.9	98.5	98.2	98.2	98.3	98.7	98.9	98.9	96.3	94.6	94.8	97.3	97.6	97.9	98.2	98.4	98.4	24	99.0	94.6	98.0
10/18/07	98.3	98.3	98.2	98.1	98.2	98.4	98.5	97.2	96.8	96.3	96.1	94.5	94.5	92.2	86.0	89.8	93.4	94.0	92.0	90.3	87.4	84.5	84.5	84.3	24	98.5	84.3	93.4
10/19/07	83.4	84.7	86.6	90.0	88.9	85.7	87.8	87.1	77.5	68.3	55.9	43.9	36.3	34.6	35.4	37.3	40.7	55.8	64.8	70.8	73.3	78.4	74.4	74.4	24	90.0	34.6	67.3
10/20/07	76.7	76.0	77.0	77.3	73.3	69.9	72.3	74.5	70.4	61.3	47.7	43.6	40.6	44.3	47.6	49.1	60.1	58.5	62.5	64.3	59.1	59.5	68.7	72.5	24	77.3	40.6	62.8
10/21/07	70.8	72.9	69.4	66.7	64.8	72.0	78.5	79.3	78.3	74.7	70.8	68.0	63.9	65.4	64.7	63.0	63.9	65.0	74.3	76.4	79.9	83.3	83.5	80.8	24	83.5	63.0	72.1
10/22/07	81.8	82.9	85.0	84.7	83.7	82.7	83.2	82.0	73.6	60.8	53.5	45.9	43.2	39.6	33.7	35.0	32.7	46.6	58.0	61.8	68.9	73.0	72.8	74.7	24	85.0	32.7	64.2
10/23/07	78.2	74.8	78.9	74.9	71.7	81.5	83.2	71.8	67.0	58.3	52.0	48.1	45.3	39.5	39.5	38.8	42.1	48.8	55.2	63.9	70.7	70.7	75.6	81.4	24	83.2	38.8	63.0
10/24/07	83.2	79.5	85.0	85.6	83.2	87.0	91.2	86.8	75.4	55.7	43.9	41.9	40.1	39.2	37.6	39.5	43.6	53.3	60.4	65.9	69.0	69.6	67.4	68.1	24	91.2	37.6	64.7
10/25/07	69.6	69.8	71.6	74.7	76.1	75.0	77.0	76.9	67.9	58.0	50.8	44.5	39.5	35.4	33.5	32.5	35.8	55.3	69.8	68.8	75.5	84.8	90.0	92.8	24	92.8	32.5	63.6
10/26/07	92.3	91.3	91.1	92.9	92.9	91.2	85.4	69.6	56.0	42.2	32.2	26.9	24.9	27.5	35.2	36.9	38.6	43.2	49.1	54.7	59.9	72.6	78.4	76.5	24	92.9	24.9	60.9
10/27/07	79.4	77.4	75.6	81.1	82.8	80.4	79.9	80.9	72.4	72.4	70.3	63.5	54.4	48.7	40.6	39.3	47.1	58.7	63.9	74.7	77.6	83.3	86.5	86.5	24	86.5	39.3	69.9
10/28/07	86.3	84.2	84.3	84.1	84.9	83.3	84.1	82.2	72.5	65.3	56.7	48.4	45.1	42.6	41.3	38.4	44.8	53.3	58.5	62.8	60.6	59.7	67.5	60.0	24	86.3	38.4	64.6
10/29/07	57.1	47.8	43.1	45.6	50.9	68.3	77.0	76.8	62.4	40.2	29.6	30.9	28.7	28.2	24.6	23.2	27.9	40.6	57.4	61.3	57.0	59.5	66.1	66.7	24	77.0	23.2	48.8
10/30/07	68.9	74.1	76.2	77.5	78.5	77.8	77.2	80.8	80.7	63.7	49.3	41.8	36.9	42.0	40.8	42.6	44.5	44.7	53.4	60.7	83.9	82.0	73.3	66.3	24	83.9	36.9	63.2
10/31/07	65.9	65.8	67.1	68.3	65.1	67.6	72.0	71.0	63.5	55.2	45.6	38.7	32.7	29.8	27.5	27.4	30.0	40.8	46.4	57.6	59.9	63.4	72.0	67.7	24	72.0	27.4	54.2
hr max	98.5	98.6	98.7	98.8	98.8	98.9	99.0	98.9	98.5	98.2	98.2	98.3	98.7	98.9	98.9	96.3	94.8	95.9	97.3	97.9	98.2	98.4	98.4	98.5				
hr min	55.9	47.8	43.1	45.6	50.9	47.0	45.0	44.9	43.1	40.2	29.6	26.9	24.9	22.1	20.9	21.6	23.8	31.0	37.2	45.1	48.7	51.8	53.4	50.4				
average	81.5	81.7	82.6	83.6	83.4	84.4	85.4	83.6	78.1	70.1	63.8	59.6	56.8	54.9	53.4	53.7	55.8	61.6	69.5	73.9	76.7	78.3	79.7	80.4				

monthly	monthly	monthly
max hr	min hr	ave hr
99.0	20.9	72.2
10/17/07	10/3/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
October-07
in
Prcp

data channel in

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr		daily total
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
10/1/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/2/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/3/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/4/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/5/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/6/07	0.01	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.81	0.55	0.09	0.03	24	0.81		1.51
10/7/07	0.27	0.02	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.27		0.32
10/8/07	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.01		0.01
10/9/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/10/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/11/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/12/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/13/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.01	0	0	0.01	0.06	24	0.06		0.11
10/14/07	0.07	0.16	0.17	0.05	0.03	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	24	0.17		0.50
10/15/07	0	0	0	0	0	0.04	0.01	0	0.01	0	0	0.02	0	0.02	0.07	0.03	0	0.01	0.01	0	0	0	0	0	24	0.07		0.22
10/16/07	0.01	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0	24	0.01		0.03
10/17/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11	0.16	0.02	0	0	0.1	0.06	0.05	0.05	24	0.16		0.55
10/18/07	0.08	0.1	0.13	0.2	0.03	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	24	0.20		0.56
10/19/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/20/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/21/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/22/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/23/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/24/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/25/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/26/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/27/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/28/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/29/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/30/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
10/31/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
hr max	0.27	0.16	0.17	0.20	0.03	0.04	0.01	0.00	0.01	0.00	0.01	0.02	0.00	0.02	0.07	0.11	0.16	0.02	0.03	0.01	0.81	0.55	0.09	0.06				
hr min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.44	0.28	0.35	0.26	0.06	0.04	0.01	0.00	0.03	0.00	0.01	0.03	0.00	0.02	0.07	0.14	0.16	0.04	0.04	0.02	0.91	0.61	0.15	0.14				

monthly max hr	monthly 24h max	monthly TOTAL
0.81	1.51	3.81
10/6/07	10/6/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
mps
10WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	5.0	5.3	5.5	5.4	5.7	6.3	5.8	5.4	5.5	5.6		5.4	5.4	6.0	6.4	5.9	5.9	5.0	4.9	4.3	4.6	4.6	4.9	5.5	23	6.4	4.3	5.4
11/2/07	6.4	7.4	11.3	11.0	10.1	8.7	7.3	6.1	7.0	8.8	8.9	10.1	11.7	12.8	12.3	12.2	9.9	5.9	5.2	5.2	4.2	4.9	4.5	4.6	24	12.8	4.2	8.2
11/3/07	4.9	4.8	4.6	4.2	4.0	4.0	5.0	4.6	4.4	6.0	6.2	7.3	10.1	8.7	8.4	9.9	11.1	7.5	5.3	5.3	5.5	5.2	5.3	5.5	24	11.1	4.0	6.2
11/4/07	5.0	5.4	5.1	4.8	4.6	4.0	4.5	4.9	5.4	6.1	6.8	7.0	7.7	8.2	6.5	7.8	9.1	7.7	9.4	7.7	9.9	12.2	10.1	9.1	24	12.2	4.0	7.0
11/5/07	9.5	9.2	9.3	8.8	8.7	9.2	8.3	9.8	11.2	14.0	15.2	14.6	14.9	14.3	15.2	14.1	10.5	7.2	6.2	4.7	4.9	5.9	4.4	5.2	24	15.2	4.4	9.8
11/6/07	4.7	4.7	4.9	4.4	4.7	4.3	3.6	3.6	2.8	2.6	2.1	1.8	1.3	1.3	1.8	2.7	3.6	2.9	4.3	5.2	4.7	5.8	6.9	6.8	24	6.9	1.3	3.8
11/7/07	7.0	6.6	5.5	5.4	4.9	5.7	5.5	5.5	4.4	4.2	4.4	5.1	6.8	7.1	7.8	6.6	4.3	5.0	5.2	4.5	4.2	2.4	1.5	2.3	24	7.8	1.5	5.1
11/8/07	2.1	1.0	1.9	1.6	1.6	2.0	2.2	3.3	3.6	4.4	4.6	6.0	6.3	4.3	3.0	3.2	3.8	3.5	3.1	2.8	1.9	1.4	2.2	4.3	24	6.3	1.0	3.1
11/9/07	4.4	4.6	5.1	4.8	4.5	4.4	4.2	4.6	4.2	6.7	5.7	5.4	3.8	3.7	3.9	4.5	4.4	3.5	4.0	5.0	6.5	6.6	6.6	5.6	24	6.7	3.5	4.9
11/10/07	8.0	7.8	9.1	8.5	5.7	5.4	4.7	2.5	1.9	1.3	2.9	2.9	2.0	1.5	2.3	3.1	3.0	4.0	5.1	5.8	5.1	4.9	6.0	6.0	24	9.1	1.3	4.6
11/11/07	4.9	5.7	4.7	4.9	4.9	3.2	4.1	7.4	7.8	11.4	12.6	13.3	13.3	9.6	8.6	7.9	5.0	3.7	4.0	3.7	3.5	3.4	3.7	3.7	24	13.3	3.2	6.5
11/12/07	3.5	2.8	2.8	3.8	4.2	4.4	4.7	4.7	4.4	5.2	7.2	7.3	7.4	7.8	7.8	7.0	5.6	5.4	7.6	9.3	9.3	9.3	9.0	9.6	24	9.6	2.8	6.3
11/13/07	9.1	10.0	9.8	9.4	7.1	6.1	6.8	6.4	6.6	6.5	5.3	7.5	14.5	15.0	10.7	9.8	8.0	8.5	8.5	9.0	8.0	7.9	8.7	11.3	24	15.0	5.3	8.8
11/14/07	12.4	12.5	11.5	12.3	12.7	14.4	13.6	14.1	16.2	16.6	15.6	16.2	15.2	14.9	13.7	12.1	10.1	7.8	7.8	10.2	7.0	5.3	5.1	5.2	24	16.6	5.1	11.8
11/15/07	6.2	6.3	4.8	4.2	5.0	4.5	4.9	4.3	4.6	4.1	4.8	5.6	6.1	5.8	7.3	7.8	6.5	5.1	7.3	6.0	3.9	3.7	4.1	4.8	24	7.8	3.7	5.3
11/16/07	4.0	3.6	3.7	3.6	5.7	5.9	6.4	5.8	5.6	5.3	5.7	5.2	5.5	5.5	6.1	4.7	2.6	2.5	3.4	4.1	2.2	2.7	2.7	3.1	24	6.4	2.2	4.4
11/17/07	2.8	1.7	2.8	3.1	3.0	3.7	3.5	4.0	5.4	7.1	7.3	6.4	6.2	5.8	6.1	5.5	5.2	5.2	4.9	5.4	6.5	6.4	6.7	7.0	24	7.3	1.7	5.1
11/18/07	7.0	6.6	5.8	6.4	6.4	7.8	7.2	7.7	6.5	5.8	6.3	6.8	6.7	7.3	7.2	6.3	4.9	5.4	5.6	5.7	5.5	5.3	5.3	4.9	24	7.8	4.9	6.3
11/19/07	3.2	3.6	4.9	4.5	4.4	4.5	4.0	3.2	2.1	3.9	4.8	4.8	3.6	3.0	3.7	4.0	3.2	3.2	2.7	2.2	1.8	3.2	2.6	2.3	24	4.9	1.8	3.5
11/20/07	3.0	3.1	3.5	3.7	3.6	3.8	4.4	5.5	5.8	4.4	4.7	5.5	6.0	6.9	6.9	6.1	5.4	5.8	5.6	6.9	6.6	6.3	5.7	5.2	24	6.9	3.0	5.2
11/21/07	4.8	4.3	4.7	3.8	3.9	3.2	3.8	3.4	4.5	6.2	6.6	6.2	6.6	6.4	5.8	5.2	4.2	3.4	3.7	2.5	2.5	1.7	2.7	1.6	24	6.6	1.6	4.2
11/22/07	1.1	1.0	1.1	2.1	2.0	3.0	3.0	3.0	3.3	4.1	4.3	5.0	5.1	5.8	5.3	5.1	3.4	3.0	3.7	3.4	4.2	4.8	4.7	4.8	24	5.8	1.0	3.6
11/23/07	4.7	4.5	4.8	5.3	5.6	5.3	5.2	4.8	5.3	5.5	6.0	7.4	7.1	7.0	8.2	7.4	6.6	5.6	4.3	4.2	4.3	4.2	4.0	4.3	24	8.2	4.0	5.5
11/24/07	3.9	4.3	3.9	1.9	1.6	3.8	4.2	4.3	5.2	5.9	7.2	7.7	7.9	7.7	7.3	7.3	5.9	5.1	5.7	6.2	5.6	5.5	5.2	5.9	24	7.9	1.6	5.4
11/25/07	5.2	6.1	6.1	6.2	5.4	5.0	5.5	6.8	8.2	8.9	9.9	11.4	12.4	12.5	10.9	9.0	5.9	4.2	4.7	5.0	4.0	4.7	4.9	5.0	24	12.5	4.0	7.0
11/26/07	5.4	5.6	5.0	4.3	3.8	4.3	5.1	5.2	4.7	4.1	2.7	3.6	4.4	5.6	6.2	6.6	5.2	4.4	7.7	9.7	10.0	8.1	8.9	8.9	24	10.0	2.7	5.8
11/27/07	6.3	6.2	5.3	2.5	1.4	1.8	3.3	5.7	7.0	7.0	8.9	10.3	10.3	10.8	10.8	9.3	7.3	7.1	6.0	4.6	4.1	3.9	1.9	1.2	24	10.8	1.2	6.0
11/28/07	1.7	2.6	4.3	5.8	8.0	10.5	10.5	9.5	10.8	13.7	14.2	13.8	12.4	12.2	11.7	12.1	9.1	5.2	4.0	3.6	3.8	4.8	5.1	5.9	24	14.2	1.7	8.1
11/29/07	4.7	5.0	4.4	2.1	3.4	3.3	2.2	1.1	1.3	2.9	3.9	2.6	3.5	4.1	4.0	4.0	4.4	3.7	2.4	3.9	6.5	8.1	6.8	7.5	24	8.1	1.1	4.0
11/30/07	8.1	6.4	5.3	5.4	5.2	5.8	6.5	6.4	5.7	5.8	5.6	6.4	6.7	5.6	4.0	2.7	2.3	2.4	3.9	3.9	3.1	3.7	5.5	5.6	24	8.1	2.3	5.1
																									0			
hr max	12.4	12.5	11.5	12.3	12.7	14.4	13.6	14.1	16.2	16.6	15.6	16.2	15.2	15.0	15.2	14.1	11.1	8.5	9.4	10.2	10.0	12.2	10.1	11.3				
hr min	1.1	1.0	1.1	1.6	1.4	1.8	2.2	1.1	1.3	1.3	2.1	1.8	1.3	1.3	1.8	2.7	2.3	2.4	2.4	2.2	1.8	1.4	1.5	1.2				
average	5.3	5.3	5.4	5.1	5.1	5.3	5.3	5.5	5.7	6.5	6.9	7.3	7.7	7.6	7.3	7.0	5.9	5.0	5.2	5.3	5.1	5.2	5.2	5.4				

monthly max hr	monthly min hr	monthly ave hr
16.6	1.0	5.9
11/14/07	11/8/07	

Validated by:	Roger L Thompson	Date:	1/3/08
Analyst:	Denise Hazelman	Date:	1/3/08

valid hours	719
possible hours	720
data capture	99.9%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
mps
50WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
11/1/07	11.0	11.3	11.6	10.4	10.3	11.5	11.0	10.4	9.6	7.2	6.2	6.1	6.3	7.3	7.8	7.7	7.7	8.7	8.8	8.7	9.6	7.8	8.1	9.8	24	11.6	6.1	9.0
11/2/07	10.4	11.8	13.9	13.5	12.5	11.3	10.0	8.6	8.7	9.8	9.8	11.3	13.1	14.7	14.0	14.2	12.0	8.9	9.1	9.1	9.5	8.4	7.3	6.8	24	14.7	6.8	10.8
11/3/07	5.8	7.4	6.1	5.9	5.8	8.5	10.5	8.2	7.8	8.1	8.1	8.4	11.4	9.9	9.7	11.7	13.6	11.0	9.7	8.4	8.5	7.9	8.8	10.3	24	13.6	5.8	8.8
11/4/07	11.0	11.4	10.9	10.1	9.1	7.5	9.1	8.9	8.3	7.2	8.1	8.1	9.1	9.4	7.4	9.1	11.6	10.9	12.8	11.2	13.0	15.3	12.7	11.6	24	15.3	7.2	10.2
11/5/07	12.0	11.5	12.1	11.6	11.6	12.1	11.3	12.5	13.1	16.1	17.5	16.7	17.0	16.3	17.4	16.1	12.5	9.8	9.5	8.2	8.5	9.9	8.3	8.9	24	17.5	8.2	12.5
11/6/07	8.5	7.1	7.2	7.1	7.4	7.0	5.4	4.0	3.5	2.7	2.3	2.0	1.3	1.5	2.1	3.1	4.4	3.8	7.5	10.4	9.7	10.9	11.3	9.7	24	11.3	1.3	5.8
11/7/07	9.4	8.3	6.8	8.1	9.3	10.5	10.3	10.3	7.2	5.7	5.0	5.8	7.8	7.6	8.8	8.1	6.4	6.5	7.1	7.9	7.6	6.0	3.6	3.8	24	10.5	3.6	7.4
11/8/07	4.0	3.3	4.3	4.1	4.0	4.1	3.7	5.1	5.6	5.7	5.5	6.8	7.1	4.9	3.4	3.5	5.7	6.0	6.0	5.9	4.9	3.7	4.1	6.6	24	7.1	3.3	4.9
11/9/07	5.7	6.6	7.0	7.2	8.3	8.9	8.2	7.4	7.0	8.0	6.7	6.2	4.5	4.2	4.4	5.3	5.8	6.5	7.7	8.1	9.0	9.2	9.4	8.4	24	9.4	4.2	7.1
11/10/07	11.3	11.2	13.2	12.2	8.8	9.4	8.9	5.5	4.7	2.2	3.2	3.2	2.3	1.8	2.7	3.7	4.4	5.3	7.8	10.0	8.6	8.6	11.2	12.2	24	13.2	1.8	7.2
11/11/07	10.9	11.3	8.8	9.1	9.5	6.2	7.9	12.3	11.4	13.5	14.7	15.3	15.3	11.1	9.8	9.3	6.9	7.8	7.7	7.2	6.5	6.9	6.7	6.3	24	15.3	6.2	9.7
11/12/07	6.2	5.4	4.0	5.2	6.4	7.0	8.7	9.4	8.6	6.2	8.3	8.3	8.6	9.4	9.5	8.8	8.7	10.6	13.5	14.6	14.4	13.8	13.5	14.1	24	14.6	4.0	9.3
11/13/07	13.2	14.5	14.3	13.5	11.3	11.2	12.7	12.1	11.9	9.6	7.0	9.4	17.0	17.2	12.3	11.6	10.4	10.9	11.0	12.1	11.6	11.3	12.2	14.9	24	17.2	7.0	12.2
11/14/07	15.9	15.8	14.8	15.5	15.8	17.6	16.6	16.8	19.1	19.4	18.1	18.6	17.6	17.2	15.9	14.1	12.4	10.8	11.4	13.5	10.6	9.0	8.7	8.7	24	19.4	8.7	14.7
11/15/07	10.7	10.6	8.3	7.8	8.0	6.9	7.0	5.9	6.7	5.9	5.3	6.3	7.1	6.4	8.6	9.9	9.4	9.5	11.6	9.6	7.8	8.3	7.5	9.1	24	11.6	5.3	8.1
11/16/07	7.7	6.8	7.5	8.4	10.7	10.6	11.1	10.6	9.9	7.8	7.1	5.9	6.1	6.1	6.8	5.6	3.7	3.4	4.3	5.6	4.0	4.9	5.2	4.9	24	11.1	3.4	6.9
11/17/07	5.0	4.1	5.3	6.6	5.9	6.1	6.6	6.4	6.8	9.0	9.3	7.6	7.3	6.8	7.3	6.8	6.8	7.7	7.5	8.0	8.9	9.7	10.5	10.3	24	10.5	4.1	7.3
11/18/07	9.9	9.2	8.3	8.7	8.5	10.0	9.2	10.1	7.8	6.6	7.3	8.0	7.7	8.6	9.3	8.2	7.4	7.7	9.7	11.1	10.9	10.4	9.3	8.2	24	11.1	6.6	8.8
11/19/07	5.7	6.7	9.4	8.9	9.1	9.4	7.9	7.5	7.0	5.7	5.4	5.4	4.1	3.5	4.3	4.9	5.6	6.7	7.4	6.8	5.4	5.0	6.8	5.9	24	9.4	3.5	6.4
11/20/07	6.5	7.1	7.0	7.1	7.2	7.7	7.5	7.8	7.4	5.5	5.8	6.4	7.0	8.3	8.3	7.4	7.4	8.3	7.5	8.9	8.5	8.2	7.4	6.9	24	8.9	5.5	7.4
11/21/07	6.2	5.6	6.2	5.2	5.3	4.6	5.1	4.7	5.7	7.6	7.8	7.0	7.6	7.5	6.7	6.1	5.8	5.7	5.9	5.0	4.8	3.9	4.2	3.2	24	7.8	3.2	5.7
11/22/07	2.2	1.6	0.6	1.4	2.2	3.0	3.1	4.7	5.0	4.8	4.6	5.4	5.7	6.5	5.9	5.6	4.3	4.0	6.0	5.1	5.8	7.2	8.3	10.1	24	10.1	0.6	4.7
11/23/07	10.1	9.3	9.8	9.9	9.9	8.8	9.1	9.2	8.0	6.9	6.7	8.1	7.7	7.7	9.1	8.4	8.0	6.9	5.8	5.4	5.4	4.9	4.7	5.1	24	10.1	4.7	7.7
11/24/07	4.5	5.1	4.7	3.1	2.7	5.1	7.9	8.8	8.8	7.7	8.4	8.9	9.4	9.0	8.9	9.3	9.4	10.7	11.9	12.5	12.0	11.0	10.3	11.6	24	12.5	2.7	8.4
11/25/07	10.4	11.0	10.9	11.0	10.0	9.6	11.1	12.2	12.3	12.0	11.9	13.2	14.1	14.3	12.5	10.5	8.3	7.2	8.7	9.4	8.1	8.5	9.1	8.6	24	14.3	7.2	10.6
11/26/07	9.4	9.5	8.3	6.1	5.0	6.0	8.6	9.0	7.7	5.0	3.0	3.9	4.8	6.1	7.2	8.1	8.4	8.6	11.7	12.6	12.5	10.3	11.1	11.1	24	12.6	3.0	8.1
11/27/07	7.7	7.6	6.4	2.9	1.6	2.2	3.9	7.1	8.4	8.4	10.7	12.3	12.5	13.2	13.4	11.6	9.7	9.1	7.7	6.1	5.6	5.1	2.8	1.2	24	13.4	1.2	7.4
11/28/07	1.3	2.8	7.2	9.2	11.1	13.0	13.3	11.4	12.8	16.0	16.4	15.7	14.2	13.9	13.5	14.3	11.2	8.4	6.8	7.9	7.9	9.5	9.0	9.3	24	16.4	1.3	10.7
11/29/07	7.0	6.5	5.9	3.7	4.9	4.4	3.3	1.8	1.7	3.1	4.2	2.8	3.9	4.5	4.3	4.4	5.1	4.7	4.2	7.2	10.0	11.4	10.6	10.6	24	11.4	1.7	5.4
11/30/07	10.8	9.0	8.0	7.8	7.8	8.6	10.0	10.0	8.9	7.0	6.3	7.1	7.6	6.2	4.6	3.0	2.7	2.7	4.8	8.2	5.6	6.1	9.1	8.3	24	10.8	2.7	7.1
																									0			
hr max	15.9	15.8	14.8	15.5	15.8	17.6	16.6	16.8	19.1	19.4	18.1	18.6	17.6	17.2	17.4	16.1	13.6	11.0	13.5	14.6	14.4	15.3	13.5	14.9				
hr min	1.3	1.6	0.6	1.4	1.6	2.2	3.1	1.8	1.7	2.2	2.3	2.0	1.3	1.5	2.1	3.0	2.7	2.7	4.2	5.0	4.0	3.7	2.8	1.2				
average	8.3	8.3	8.3	8.0	8.0	8.3	8.6	8.6	8.4	8.0	8.0	8.3	8.8	8.7	8.5	8.3	7.9	7.6	8.4	8.8	8.5	8.4	8.4	8.6				

monthly max hr	monthly min hr	monthly ave hr
19.4	0.6	8.3
11/14/07	11/22/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
mps
100WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	13.5	14.3	15.0	12.3	11.7	12.0	12.5	11.7	9.9	8.5	6.5	6.1	6.4	7.5	8.1	8.3	8.3	9.4	10.3	11.8	11.2	9.8	10.1	11.9	24	15.00	6.10	10.30
11/2/07	12.9	15.3	16.1	15.3	14.2	13.2	12.2	11.4	10.7	10.3	10.1	11.6	13.7	15.3	14.8	15.0	13.4	10.8	11.2	10.2	10.2	9.2	9.3	8.1	24	16.1	8.1	12.3
11/3/07	5.2	5.7	5.0	5.6	6.5	8.9	12.7	12.9	11.5	10.4	9.4	9.3	11.9	10.5	10.4	12.5	15.4	13.4	10.6	8.8	8.7	8.0	9.1	10.5	24	15.4	5.0	9.7
11/4/07	12.4	13.8	12.9	11.5	11.5	9.6	10.1	8.9	7.5	9.0	9.3	8.7	9.3	9.6	7.8	9.6	13.3	13.4	15.7	14.0	15.3	17.0	14.7	13.9	24	17.0	7.5	11.6
11/5/07	14.3	13.3	14.4	14.1	14.0	14.5	13.9	14.8	14.5	16.8	18.3	17.4	17.6	16.9	18.2	16.9	13.6	12.0	12.1	11.8	11.3	12.3	11.5	10.8	24	18.3	10.8	14.4
11/6/07	10.3	9.1	8.6	7.9	7.9	7.5	5.9	3.8	3.2	2.7	2.3	1.9	1.2	1.4	2.2	3.0	4.2	4.5	6.2	7.2	9.2	10.7	11.2	9.8	24	11.2	1.2	5.9
11/7/07	10.2	9.9	12.1	14.4	12.5	13.6	13.2	11.4	9.5	7.6	5.8	6.4	8.1	8.0	9.2	9.0	7.5	7.0	8.0	8.5	9.4	8.8	7.0	6.6	24	14.4	5.8	9.3
11/8/07	6.8	5.4	5.3	4.6	5.4	4.5	5.3	7.8	8.9	7.4	5.9	6.8	7.2	4.7	3.5	3.4	6.0	7.5	8.4	8.6	8.3	6.2	5.0	5.9	24	8.9	3.4	6.2
11/9/07	6.8	7.0	6.8	6.6	6.5	7.3	8.9	8.5	9.5	8.8	7.0	6.3	4.5	4.4	4.7	5.4	6.1	7.6	9.8	10.3	10.7	11.2	12.1	11.2	24	12.1	4.4	7.8
11/10/07	14.5	14.2	16.7	15.2	10.7	8.2	8.5	5.7	5.0	4.5	3.7	3.3	2.2	1.8	2.6	3.8	4.4	5.6	7.8	9.6	8.6	8.7	9.7	10.4	24	16.7	1.8	7.7
11/11/07	9.9	12.3	14.3	13.2	12.7	8.0	11.0	17.3	15.4	15.3	15.7	15.9	16.0	11.9	10.2	9.9	8.4	9.2	9.8	10.4	9.3	8.8	7.5	7.0	24	17.3	7.0	11.6
11/12/07	6.6	6.0	4.3	5.5	6.1	7.4	9.6	10.1	9.8	7.1	8.3	8.4	8.7	9.5	9.7	9.3	10.0	12.9	17.9	19.6	18.6	17.8	17.0	17.7	24	19.6	4.3	10.7
11/13/07	16.5	18.3	18.5	17.5	15.1	14.4	15.2	13.7	12.5	11.6	9.1	10.8	18.2	18.1	12.9	12.8	12.0	12.8	13.1	14.3	14.4	14.4	15.3	17.8	24	18.5	9.1	14.6
11/14/07	18.5	18.5	17.6	17.9	18.3	19.9	18.9	18.5	20.9	20.3	19.1	19.7	18.7	18.3	16.9	15.0	13.8	13.3	14.2	15.9	13.0	10.8	9.8	9.9	24	20.9	9.8	16.6
11/15/07	11.4	12.1	10.3	9.5	9.5	8.3	7.9	5.8	4.1	5.1	6.1	6.5	7.6	6.3	8.2	9.4	10.3	12.7	15.4	12.5	11.2	8.4	11.4	10.1	24	15.4	4.1	9.2
11/16/07	9.1	8.9	10.1	11.8	10.5	10.0	10.7	10.0	10.8	11.3	10.3	6.8	7.0	6.5	7.1	5.9	4.3	4.4	5.3	6.5	4.6	5.7	7.1	6.2	24	11.8	4.3	8.0
11/17/07	7.0	6.5	7.2	7.6	9.7	9.8	10.1	9.9	9.4	9.3	9.3	7.7	7.5	7.0	7.5	7.1	6.9	8.8	9.4	10.0	10.6	12.0	13.5	12.9	24	13.5	6.5	9.0
11/18/07	12.2	11.2	10.7	10.8	10.5	11.4	10.3	11.4	8.0	7.9	8.4	8.6	7.8	8.8	9.5	8.5	7.7	7.4	8.6	10.5	10.1	8.6	9.3	10.1	24	12.2	7.4	9.5
11/19/07	6.3	8.2	13.2	13.1	13.3	12.5	11.3	10.3	8.8	7.4	5.8	5.5	4.2	3.7	4.3	5.0	5.8	7.9	10.8	11.2	9.9	8.4	8.6	7.7	24	13.3	3.7	8.5
11/20/07	9.9	9.2	8.5	8.7	9.5	9.0	8.7	9.5	8.4	6.3	6.0	6.6	7.4	8.7	8.7	7.7	8.5	9.8	8.8	9.8	9.4	9.3	8.4	8.0	24	9.9	6.0	8.5
11/21/07	6.9	6.3	6.9	5.9	6.4	5.7	6.1	5.5	6.4	8.0	8.1	7.2	7.9	7.8	7.0	6.5	6.4	6.4	6.8	6.3	5.5	5.6	5.2	4.4	24	8.1	4.4	6.5
11/22/07	3.4	2.4	1.0	1.9	3.0	3.1	2.6	4.7	5.8	5.9	4.7	5.6	5.9	6.6	6.1	5.7	4.6	4.5	6.4	5.4	6.0	7.3	8.7	10.0	24	10.0	1.0	5.1
11/23/07	9.8	10.4	10.8	11.5	12.3	10.4	11.4	11.2	10.2	8.2	6.8	8.2	7.9	7.9	9.4	8.7	8.8	7.7	6.9	6.2	6.0	5.5	5.1	5.7	24	12.3	5.1	8.6
11/24/07	4.9	5.6	5.4	4.5	3.9	5.6	8.4	9.4	10.9	10.0	8.7	9.1	9.5	9.2	9.2	9.7	10.4	11.4	12.5	14.0	14.5	15.1	14.5	13.6	24	15.1	3.9	9.6
11/25/07	12.7	12.1	12.8	11.5	11.9	11.4	11.4	13.2	16.6	15.9	13.4	14.0	14.5	14.8	13.2	11.2	9.7	9.1	11.2	12.5	11.2	11.3	11.4	10.6	24	16.6	9.1	12.4
11/26/07	10.8	11.8	10.0	7.0	4.7	5.1	8.5	9.2	8.3	5.8	3.1	3.9	4.8	6.2	7.3	8.7	9.4	10.8	14.7	14.6	13.7	11.4	12.3	12.4	24	14.7	3.1	8.9
11/27/07	8.5	8.0	6.8	3.0	1.5	2.2	3.9	7.4	8.6	8.6	10.9	12.6	12.9	13.7	13.9	12.1	10.7	10.1	8.6	7.1	6.6	5.8	3.2	1.2	24	13.9	1.2	7.8
11/28/07	1.4	4.3	8.8	12.7	14.0	15.0	15.3	12.2	14.1	17.0	17.2	16.5	14.7	14.6	14.3	15.2	12.5	10.6	9.0	10.8	10.9	12.4	10.5	11.8	24	17.2	1.4	12.3
11/29/07	8.5	7.4	7.0	5.4	6.7	5.4	4.1	2.5	2.6	3.8	4.4	2.9	3.9	4.5	4.5	4.4	5.4	5.5	6.1	9.9	12.7	13.5	12.1	12.2	24	13.5	2.5	6.5
11/30/07	12.4	10.4	10.1	10.0	10.0	10.2	11.8	12.4	11.9	8.6	6.5	7.3	7.8	6.3	5.0	3.1	2.8	3.0	6.2	9.4	8.4	8.6	8.3	9.7	24	12.4	2.8	8.3
																									0			
hr max	18.5	18.5	18.5	17.9	18.3	19.9	18.9	18.5	20.9	20.3	19.1	19.7	18.7	18.3	18.2	16.9	15.4	13.4	17.9	19.6	18.6	17.8	17.0	17.8				
hr min	1.4	2.4	1.0	1.9	1.5	2.2	2.6	2.5	2.6	2.7	2.3	1.9	1.2	1.4	2.2	3.0	2.8	3.0	5.3	5.4	4.6	5.5	3.2	1.2				
average	9.8	9.9	10.2	9.9	9.7	9.5	10.0	10.0	9.8	9.3	8.7	8.7	9.2	9.0	8.9	8.8	8.7	9.0	10.1	10.6	10.3	10.1	10.0	9.9				

monthly max hr	monthly min hr	monthly ave hr
20.9	1.0	9.6
11/14/07	11/22/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
Deg
10mWD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
11/1/07	195	189	190	192	191	188	191	199	202	205	213	212	215	219	212	216	216	218	227	240	260	281	279	279	24
11/2/07	299	293	305	315	313	307	306	291	292	290	287	280	283	291	293	296	296	285	279	275	272	272	273	289	24
11/3/07	236	228	235	209	189	183	176	177	200	203	224	267	292	292	297	299	322	318	294	276	274	264	258	235	24
11/4/07	235	233	234	227	224	197	209	202	197	209	219	220	237	256	268	294	307	297	295	296	324	347	344	328	24
11/5/07	320	320	308	301	303	309	295	300	302	307	312	313	320	317	321	324	332	327	327	329	319	318	310	308	24
11/6/07	299	279	290	293	299	303	273	251	291	330	324	336	282	251	181	165	158	164	153	149	149	154	153	156	24
11/7/07	160	164	170	173	176	191	202	212	220	256	289	315	310	304	315	323	309	303	307	325	339	44	112	97	24
11/8/07	67	94	165	103	106	58	69	81	103	115	116	131	143	148	141	100	90	88	84	93	141	175	194	208	24
11/9/07	209	225	226	225	233	256	314	338	358	3	16	21	33	49	77	95	96	108	106	100	101	110	112	113	24
11/10/07	128	136	146	146	150	149	145	142	143	149	206	294	303	268	214	220	224	189	186	190	203	196	195	185	24
11/11/07	174	171	165	159	194	243	272	318	326	327	333	330	326	314	321	317	307	303	316	319	305	298	291	300	24
11/12/07	301	285	269	256	244	249	236	239	243	242	244	240	228	233	215	214	206	184	181	184	186	188	192	195	24
11/13/07	196	186	189	189	196	194	198	197	205	212	232	273	326	324	303	306	303	292	284	272	273	267	267	278	24
11/14/07	282	287	284	293	300	300	300	302	305	310	313	314	312	314	324	325	324	324	315	321	316	290	281	281	24
11/15/07	277	277	263	261	255	249	258	241	235	227	209	188	179	164	151	152	148	129	137	138	143	150	187	196	24
11/16/07	217	236	249	256	273	265	272	281	285	291	298	304	296	298	306	301	288	277	269	301	339	61	72	72	24
11/17/07	62	65	66	55	48	50	46	53	57	77	78	77	91	99	96	91	78	80	92	94	104	115	124	131	24
11/18/07	133	143	144	140	131	126	137	149	160	172	172	177	190	204	218	215	212	196	186	196	204	201	199	200	24
11/19/07	231	353	357	9	5	16	8	352	356	2	17	17	14	22	26	33	38	51	57	56	26	358	15	16	24
11/20/07	15	13	2	14	9	4	360	358	5	355	349	350	353	351	349	350	355	4	2	360	356	356	357	357	24
11/21/07	359	351	355	1	355	353	360	0	1	3	11	0	352	353	356	353	351	343	357	360	9	16	11	6	24
11/22/07	332	327	275	248	242	245	233	222	227	270	301	305	297	279	272	278	269	247	241	235	217	210	208	218	24
11/23/07	216	212	223	228	221	221	216	223	239	247	261	281	274	277	291	302	311	317	303	305	316	333	328	323	24
11/24/07	316	310	313	313	266	215	224	231	225	229	234	243	235	225	220	214	204	200	197	194	200	198	198	199	24
11/25/07	203	196	198	201	204	210	225	251	277	288	290	295	304	313	313	316	321	303	314	315	303	320	324	319	24
11/26/07	337	349	344	315	278	229	259	274	280	290	291	276	277	263	246	234	227	216	260	317	353	357	354	354	24
11/27/07	355	3	10	46	104	103	115	97	108	120	122	124	123	122	131	125	122	120	109	99	90	87	78	17	24
11/28/07	311	258	231	259	292	292	299	314	306	312	308	316	311	305	300	297	299	288	251	245	259	294	332	325	24
11/29/07	321	344	339	338	308	270	284	256	272	322	343	302	303	332	334	331	312	288	254	298	309	308	291	303	24
11/30/07	312	300	309	293	298	260	275	286	287	291	280	264	258	271	283	292	221	174	167	178	161	157	152	143	24
																									0

Validated by:	Roger L Thompson	Date:	1/3/08
Analyst:	Denise Hazelman	Date:	1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
Deg
50mWD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
11/1/07	204	193	190	196	193	190	192	198	202	208	213	213	216	219	212	216	216	219	249	277	286	301	297	292	24
11/2/07	303	297	305	315	313	307	306	295	293	290	286	279	283	290	292	295	295	291	293	293	292	292	297	310	24
11/3/07	263	236	239	227	200	188	178	176	194	201	227	269	292	292	296	298	322	321	314	299	292	285	277	251	24
11/4/07	248	244	244	239	239	225	220	215	210	213	223	223	237	256	268	295	306	298	296	298	326	348	346	330	24
11/5/07	321	320	308	302	304	309	297	301	302	306	312	312	319	316	321	324	331	329	331	333	327	325	323	321	24
11/6/07	320	312	312	314	320	326	312	294	314	330	324	326	285	228	176	166	161	170	155	153	151	155	154	157	24
11/7/07	161	164	170	173	178	192	200	213	228	264	290	314	309	304	315	323	321	319	328	346	7	25	51	70	24
11/8/07	69	89	134	109	109	79	85	90	108	118	117	133	144	150	142	99	92	92	92	104	132	158	168	194	24
11/9/07	233	255	258	246	246	262	314	354	4	4	16	22	36	51	78	96	97	105	107	102	103	110	115	117	24
11/10/07	131	139	148	148	152	151	150	153	154	159	208	292	305	258	212	219	227	197	189	194	198	195	194	189	24
11/11/07	179	175	171	163	191	229	282	320	328	327	332	330	326	314	321	316	309	312	324	335	333	333	323	325	24
11/12/07	325	320	312	268	251	250	235	241	252	242	243	239	228	232	216	214	208	190	182	185	187	189	193	195	24
11/13/07	195	187	190	191	197	199	208	209	215	218	238	274	325	323	302	305	302	293	284	273	275	271	271	279	24
11/14/07	282	287	285	293	300	300	299	301	304	309	312	313	311	313	324	325	324	324	317	321	317	300	296	298	24
11/15/07	288	287	282	285	279	290	281	264	241	233	209	190	180	165	152	153	150	133	139	141	146	150	180	207	24
11/16/07	238	259	283	285	292	286	285	296	297	298	300	307	296	297	306	302	296	304	298	309	351	57	80	80	24
11/17/07	76	85	81	71	64	57	53	60	61	78	80	79	91	100	96	92	79	82	94	96	106	117	126	132	24
11/18/07	135	144	146	143	134	128	139	150	161	173	173	179	191	205	218	217	216	203	190	199	202	198	196	197	24
11/19/07	198	341	4	15	16	17	8	354	357	5	18	18	17	25	28	34	43	53	64	66	63	42	39	34	24
11/20/07	22	20	19	32	28	20	8	2	6	355	350	351	354	352	350	351	355	5	3	0	356	358	358	358	24
11/21/07	360	353	357	3	356	355	1	4	2	4	11	1	353	353	356	354	352	353	10	24	30	40	38	41	24
11/22/07	31	45	23	253	260	262	240	227	238	276	301	304	297	278	272	276	272	253	262	253	231	215	218	231	24
11/23/07	227	224	234	238	238	237	237	241	245	248	262	280	272	275	290	302	310	317	304	306	318	333	327	324	24
11/24/07	314	308	312	318	296	231	229	246	237	232	235	241	234	225	220	215	207	204	201	199	202	202	203	207	24
11/25/07	215	208	211	213	225	242	253	267	284	290	289	294	303	312	312	316	321	321	327	328	329	337	340	340	24
11/26/07	350	358	357	348	314	271	276	282	297	300	293	274	274	262	245	235	231	226	266	318	353	357	355	355	24
11/27/07	355	3	11	50	108	105	117	99	109	122	123	125	124	123	133	127	124	121	110	101	93	90	84	39	24
11/28/07	317	252	241	275	294	292	299	314	305	311	306	314	310	304	300	296	298	295	281	276	274	295	335	328	24
11/29/07	326	342	336	331	319	293	301	306	294	321	343	301	304	332	334	330	313	291	276	306	312	309	296	304	24
11/30/07	312	302	309	297	299	266	281	290	292	291	280	265	257	272	285	291	225	184	174	186	168	162	154	146	24
																									0

Validated by:	Roger L Thompson	Date:	1/3/08
Analyst:	Denise Hazelman	Date:	1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
Deg
100WD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
11/1/07	214	211	205	214	212	209	212	218	226	227	223	221	222	226	218	222	222	228	268	291	297	316	308	301	24
11/2/07	313	305	309	319	317	313	311	303	299	295	290	284	287	295	296	299	299	297	303	305	302	304	310	324	24
11/3/07	293	246	235	223	200	191	188	189	195	211	238	277	297	297	299	302	326	327	324	312	304	293	286	264	24
11/4/07	256	251	253	250	253	240	234	237	235	234	239	234	244	262	274	298	310	303	301	305	331	351	349	335	24
11/5/07	325	324	313	308	311	314	303	306	307	310	316	316	322	319	324	327	334	333	338	340	337	337	338	336	24
11/6/07	335	334	336	338	343	347	342	326	330	328	324	318	275	235	185	171	168	174	163	166	162	163	166	166	24
11/7/07	170	172	179	186	191	198	214	232	253	287	299	318	314	310	319	326	328	327	335	356	14	32	49	65	24
11/8/07	72	87	119	111	135	122	125	111	121	129	125	138	148	155	148	104	99	100	102	116	139	162	178	235	24
11/9/07	267	288	292	293	282	276	320	7	12	9	19	26	42	56	84	103	103	110	113	109	110	117	123	127	24
11/10/07	138	147	155	154	159	168	166	167	172	184	222	297	316	258	214	221	231	200	192	194	209	212	204	194	24
11/11/07	186	184	186	185	202	250	298	333	337	330	334	333	328	318	324	320	315	319	334	344	342	345	338	340	24
11/12/07	334	334	331	282	260	255	237	249	261	249	246	243	233	237	222	219	214	197	191	191	191	193	197	200	24
11/13/07	200	193	195	197	204	212	224	225	233	241	256	284	329	326	306	309	307	298	290	279	282	281	280	285	24
11/14/07	288	292	291	298	304	305	304	305	309	313	316	317	314	317	327	328	326	328	322	325	322	312	309	312	24
11/15/07	300	300	300	303	300	314	305	298	266	239	216	195	185	171	157	159	156	141	146	149	157	167	197	231	24
11/16/07	270	292	303	311	303	291	288	303	314	319	317	316	303	300	311	307	305	321	320	316	348	62	88	89	24
11/17/07	91	101	102	90	79	68	63	69	70	84	87	87	97	105	101	98	86	90	101	104	113	125	133	138	24
11/18/07	141	150	153	150	141	134	145	155	165	179	179	184	195	210	224	225	229	223	199	208	219	216	204	201	24
11/19/07	202	346	17	24	24	22	20	8	10	15	23	22	22	30	35	40	50	61	73	75	81	71	58	45	24
11/20/07	27	24	30	41	41	34	23	9	11	359	354	354	358	355	353	355	358	8	7	3	360	2	1	3	24
11/21/07	4	359	2	8	1	359	5	9	6	7	14	4	356	356	359	357	355	358	16	33	41	46	41	43	24
11/22/07	48	42	347	282	296	296	267	258	268	292	305	306	298	282	275	279	276	260	269	261	241	227	233	243	24
11/23/07	239	244	247	247	252	253	253	256	260	261	270	284	277	279	293	306	313	320	310	312	323	337	330	327	24
11/24/07	315	311	316	317	295	258	244	258	252	242	242	246	238	230	226	221	215	212	212	209	213	209	216	227	24
11/25/07	237	230	233	237	247	268	278	288	299	301	295	299	307	316	315	319	324	329	334	335	340	348	350	351	24
11/26/07	1	3	7	354	329	294	281	290	319	326	303	279	277	266	249	240	238	238	276	322	356	359	359	358	24
11/27/07	358	7	15	59	117	113	128	107	117	129	129	131	129	129	137	133	131	127	118	109	101	98	95	61	24
11/28/07	276	254	257	292	300	296	303	316	307	313	309	317	313	308	304	299	302	301	294	288	278	300	338	333	24
11/29/07	330	340	334	330	325	310	310	313	304	326	342	300	307	334	335	330	316	301	296	315	317	313	303	310	24
11/30/07	316	308	313	303	306	277	289	297	300	298	286	268	260	277	290	294	231	199	186	192	179	176	168	158	24
																									0

Validated by:	Roger L Thompson	Date:	1/3/08
Analyst:	Denise Hazelman	Date:	1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
Deg
10sigT

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	6.0	7.4	7.0	7.2	6.9	7.2	7.4	6.7	6.9	7.4	9.2	9.9	10.5	9.6	9.4	8.9	8.9	5.4	4.9	4.8	6.2	3.5	2.6	3.5	24	10.5	2.6	7.0
11/2/07	5.9	5.2	5.1	5.4	5.0	4.8	5.0	5.4	5.6	6.5	7.1	7.3	9.1	7.7	8.9	6.8	5.6	4.3	4.0	3.9	5.5	4.4	2.9	3.7	24	9.1	2.9	5.6
11/3/07	13.3	4.3	2.9	3.9	5.1	5.1	5.1	7.4	7.9	8.8	6.9	7.1	5.8	5.4	6.6	6.8	5.5	5.0	4.4	4.6	4.3	3.9	3.0	6.7	24	13.3	2.9	5.8
11/4/07	4.7	6.6	6.7	5.9	5.0	7.8	5.5	5.6	7.2	6.2	6.6	7.7	8.2	7.3	12.0	7.7	5.4	4.7	5.2	4.8	6.4	5.8	5.7	5.1	24	12.0	4.7	6.4
11/5/07	5.1	6.1	4.9	5.1	5.2	5.1	5.1	5.4	5.4	6.3	7.4	7.3	7.2	6.3	6.5	6.2	6.4	5.3	4.7	6.2	4.2	5.1	5.5	4.1	24	7.4	4.1	5.7
11/6/07	5.7	5.5	4.1	3.8	3.4	3.9	6.1	4.9	9.9	11.9	21.7	36.8	66.4	56.9	31.6	14.0	7.2	2.6	2.9	5.4	5.7	6.1	6.5	6.0	24	66.4	2.6	13.7
11/7/07	6.2	6.2	6.3	5.7	6.5	7.0	6.4	6.4	6.8	7.9	9.2	9.6	6.2	7.3	7.5	5.8	4.0	2.5	2.8	3.5	4.2	11.1	8.2	7.0	24	11.1	2.5	6.4
11/8/07	7.2	20.3	6.9	18.3	13.4	7.5	8.6	8.8	9.0	9.1	9.3	10.7	9.8	12.5	20.0	12.9	8.8	7.9	8.7	19.9	21.5	12.4	22.6	5.5	24	22.6	5.5	12.2
11/9/07	6.2	3.0	4.0	5.2	6.0	5.1	6.8	4.5	6.0	6.4	9.0	9.0	11.9	13.4	14.0	11.4	8.6	5.3	5.5	6.9	7.3	7.6	7.3	7.4	24	14.0	3.0	7.4
11/10/07	7.2	7.0	6.7	6.8	7.0	6.6	6.8	12.3	35.2	31.8	13.9	19.4	29.1	40.0	17.8	10.9	6.7	3.3	3.2	6.2	3.8	5.5	6.2	5.5	24	40.0	3.2	12.5
11/11/07	4.9	5.3	5.6	6.5	7.9	11.4	8.1	4.9	5.1	5.7	6.6	6.5	6.0	7.0	7.7	5.8	5.4	5.0	4.9	5.5	5.5	4.3	4.1	3.6	24	11.4	3.6	6.0
11/12/07	3.5	5.6	18.8	12.5	7.5	15.3	4.8	4.8	5.4	7.3	7.2	8.4	8.4	9.3	8.9	8.6	7.8	6.4	6.6	7.1	7.7	8.3	8.5	8.1	24	18.8	3.5	8.2
11/13/07	8.2	8.2	8.9	7.7	8.1	7.1	6.8	7.0	5.4	6.2	7.4	8.6	6.8	6.6	6.9	7.6	5.7	5.7	5.5	5.4	5.4	5.6	5.3	5.6	24	8.9	5.3	6.7
11/14/07	5.2	5.3	5.4	5.2	5.5	5.5	5.3	5.7	5.6	6.2	5.6	5.8	5.9	6.6	6.7	5.9	6.3	5.2	5.1	4.9	4.5	5.3	4.6	4.4	24	6.7	4.4	5.5
11/15/07	4.7	4.8	6.7	5.7	3.9	6.0	5.4	13.2	6.1	6.1	7.8	10.6	8.7	8.4	8.3	7.3	6.2	6.8	6.3	6.6	6.7	7.8	7.2	5.3	24	13.2	3.9	6.9
11/16/07	4.5	3.2	3.7	8.0	5.8	5.3	4.5	5.3	5.5	5.4	5.4	8.8	5.6	8.1	8.4	6.0	5.5	7.2	5.8	6.8	26.8	10.2	9.9	8.5	24	26.8	3.2	7.3
11/17/07	7.4	12.9	7.3	5.3	3.7	6.8	5.7	7.2	8.1	8.7	8.3	10.9	12.4	10.9	9.6	10.6	8.7	8.6	8.6	7.7	7.7	6.7	6.5	6.3	24	12.9	3.7	8.2
11/18/07	6.6	6.9	6.7	7.9	7.0	6.5	7.4	6.8	7.2	7.8	7.4	9.0	9.8	10.1	7.0	6.2	5.2	5.4	5.5	6.1	3.4	3.6	4.0	3.9	24	10.1	3.4	6.6
11/19/07	9.6	32.8	7.4	10.2	3.6	9.1	5.9	4.7	6.3	7.7	9.6	10.8	16.8	22.2	14.8	11.4	5.4	7.6	5.3	12.4	12.0	5.8	7.5	8.6	24	32.8	3.6	10.3
11/20/07	6.0	3.5	4.6	5.0	4.6	4.8	5.6	5.9	5.8	6.4	6.9	7.8	9.8	8.7	8.5	7.1	6.8	6.2	6.7	6.7	7.5	6.8	6.7	6.8	24	9.8	3.5	6.5
11/21/07	6.8	6.8	6.6	7.0	6.5	6.1	7.3	6.8	6.8	7.3	9.7	9.2	9.6	9.8	10.4	9.0	5.4	3.6	4.5	3.3	3.7	4.6	2.8	11.9	24	11.9	2.8	6.9
11/22/07	14.4	11.2	5.1	3.3	2.4	3.7	2.5	9.4	7.7	8.5	9.0	11.7	10.3	10.0	10.9	11.5	6.2	4.9	6.2	7.6	2.7	2.5	2.4	5.2	24	14.4	2.4	7.1
11/23/07	4.9	6.0	5.1	5.6	5.3	5.3	4.8	4.7	6.5	5.6	7.9	8.3	8.4	8.6	8.0	6.5	6.4	7.7	5.6	5.6	6.5	6.3	6.8	5.8	24	8.6	4.7	6.3
11/24/07	7.3	5.8	6.3	6.4	6.2	6.1	4.6	5.4	6.1	6.6	7.6	7.8	8.1	8.8	7.6	7.2	6.3	6.6	7.0	7.5	5.0	5.2	5.5	5.1	24	8.8	4.6	6.5
11/25/07	4.0	5.8	6.0	5.0	4.8	4.3	4.7	4.7	7.3	5.1	5.2	6.0	7.2	6.6	6.5	7.3	5.2	3.9	4.9	3.3	4.9	6.4	3.6	3.1	24	7.3	3.1	5.2
11/26/07	3.6	3.8	3.5	4.0	9.1	10.2	4.0	4.5	5.0	6.4	12.7	11.0	12.7	11.0	7.9	7.2	5.7	3.9	7.8	12.9	6.6	6.4	5.7	6.8	24	12.9	3.5	7.2
11/27/07	6.5	6.0	8.1	15.6	30.5	17.0	10.4	7.6	8.5	8.1	7.2	7.5	8.1	8.4	7.8	8.5	7.2	7.6	8.6	7.5	8.2	8.6	12.1	17.8	24	30.5	6.0	10.1
11/28/07	6.7	6.4	5.1	6.6	5.9	5.5	5.6	5.9	7.4	6.1	6.9	6.7	8.5	7.8	7.7	6.0	5.1	4.6	5.8	8.7	7.2	5.8	8.4	4.9	24	8.7	4.6	6.5
11/29/07	5.9	7.9	6.9	12.3	12.9	14.1	20.8	44.6	25.9	10.2	8.1	15.7	12.3	9.7	7.7	8.0	6.3	5.7	7.1	10.1	4.7	4.0	4.8	4.9	24	44.6	4.0	11.3
11/30/07	4.6	5.7	5.8	7.0	8.3	8.6	4.8	4.3	5.6	7.2	9.0	8.5	9.5	9.5	9.4	15.8	18.8	12.3	5.4	5.9	6.0	7.4	6.7	6.8	24	18.8	4.3	8.0
																									0			
hr max	14.4	32.8	18.8	18.3	30.5	17.0	20.8	44.6	35.2	31.8	21.7	36.8	66.4	56.9	31.6	15.8	18.8	12.3	8.7	19.9	26.8	12.4	22.6	17.8				
hr min	3.5	3.0	2.9	3.3	2.4	3.7	2.5	4.3	5.0	5.1	5.2	5.8	5.6	5.4	6.5	5.8	4.0	2.5	2.8	3.3	2.7	2.5	2.4	3.1				
average	6.4	7.5	6.3	7.1	7.1	7.3	6.4	7.7	8.2	8.0	8.5	10.1	11.6	11.8	10.2	8.5	6.8	5.7	5.7	6.9	7.1	6.2	6.5	6.3				

monthly	monthly	monthly
max hr	min hr	ave hr
66.4	2.4	7.7
11/6/07	11/22/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
Deg
50sigT

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
11/1/07	1.8	1.6	2.3	1.5	1.6	1.8	1.7	1.2	1.8	4.3	5.9	6.3	6.9	5.9	6.5	5.4	5.4	1.7	4.2	3.2	1.9	2.1	1.4	1.2	24	6.9	1.2	3.2
11/2/07	3.4	3.2	4.4	4.6	4.2	4.3	4.2	3.7	5.0	4.6	6.1	6.2	7.3	6.3	6.9	5.3	4.6	2.9	1.8	1.3	1.4	2.0	1.3	2.5	24	7.3	1.3	4.1
11/3/07	12.9	1.0	1.0	2.3	2.9	2.2	1.8	3.1	4.4	5.8	4.6	6.4	4.6	4.0	5.6	5.9	4.4	3.2	1.8	3.0	2.1	2.4	1.5	5.3	24	12.9	1.0	3.8
11/4/07	1.4	2.0	2.2	3.9	1.9	2.5	2.4	1.7	2.7	4.6	4.6	5.3	6.0	6.0	11.0	7.0	4.7	3.5	3.8	3.7	4.8	4.4	4.3	3.7	24	11.0	1.4	4.1
11/5/07	4.0	4.7	4.2	4.2	4.4	4.3	4.2	4.3	4.5	5.2	6.3	6.5	5.8	5.3	5.1	4.6	4.7	3.4	3.0	4.4	2.8	2.5	3.4	2.3	24	6.5	2.3	4.3
11/6/07	2.3	3.6	3.9	3.1	2.4	2.4	3.6	4.0	5.9	8.4	15.9	24.3	61.4	49.3	24.3	11.4	5.0	1.7	1.8	1.4	2.4	2.4	3.0	3.5	24	61.4	1.4	10.3
11/7/07	3.5	3.8	3.5	2.9	2.7	2.9	1.7	1.6	3.2	6.9	8.8	7.3	4.7	6.2	6.2	4.4	2.5	1.8	1.6	2.5	1.8	3.4	3.9	3.7	24	8.8	1.6	3.8
11/8/07	2.5	7.9	9.8	3.7	6.4	4.8	5.3	5.5	5.7	7.2	7.0	7.5	7.4	9.2	15.7	10.9	5.4	5.7	4.9	6.7	6.0	5.9	4.9	3.5	24	15.7	2.5	6.6
11/9/07	4.6	4.5	8.5	7.3	4.9	2.5	5.6	3.4	3.6	3.9	6.2	6.8	9.2	10.9	11.1	7.2	4.9	1.6	2.2	3.6	4.2	4.4	4.6	5.4	24	11.1	1.6	5.5
11/10/07	4.9	4.6	4.1	4.4	4.1	3.4	3.5	4.9	3.9	9.0	10.2	17.7	22.3	24.1	12.7	8.0	5.1	2.4	2.1	2.5	1.3	1.5	1.1	1.9	24	24.1	1.1	6.7
11/11/07	2.1	1.6	1.9	2.5	3.2	5.6	6.0	3.3	3.5	4.4	5.1	5.3	4.7	6.1	6.2	4.5	4.0	2.5	2.4	2.7	2.3	1.3	2.9	2.9	24	6.2	1.3	3.6
11/12/07	2.3	3.2	11.9	13.3	6.2	12.1	1.5	2.4	2.2	5.1	4.6	6.0	6.1	6.9	6.1	6.0	3.9	3.3	3.8	4.8	4.9	5.6	4.7	4.9	24	13.3	1.5	5.5
11/13/07	4.9	5.7	6.1	5.4	4.2	1.6	1.5	1.6	1.5	3.8	5.5	7.5	5.5	5.3	5.8	6.7	4.7	4.7	4.5	4.2	3.9	4.7	4.6	4.6	24	7.5	1.5	4.5
11/14/07	4.3	4.3	4.2	4.2	4.4	4.5	4.4	4.9	4.7	5.3	4.8	4.8	5.0	5.7	5.2	4.4	4.9	3.6	3.3	3.5	3.1	3.6	3.1	2.6	24	5.7	2.6	4.3
11/15/07	1.6	1.9	4.6	3.4	4.5	4.4	2.9	5.4	2.6	2.7	5.0	8.3	6.9	5.9	6.0	4.7	3.6	3.4	3.3	3.9	3.4	3.5	3.9	1.4	24	8.3	1.4	4.1
11/16/07	4.4	3.4	2.0	3.8	2.7	3.7	2.5	2.7	5.4	3.6	4.7	8.3	4.7	7.1	7.0	5.4	5.6	6.3	7.1	5.7	15.2	4.3	5.9	5.1	24	15.2	2.0	5.3
11/17/07	5.0	6.7	4.3	2.7	3.4	4.4	3.6	4.5	6.0	5.4	5.8	7.5	9.8	8.2	6.4	8.3	5.5	5.7	5.3	4.4	5.1	4.0	4.0	4.3	24	9.8	2.7	5.4
11/18/07	4.2	4.1	4.3	5.3	5.2	4.5	5.1	4.3	4.7	5.6	5.2	6.7	7.4	7.2	3.6	3.3	1.9	3.8	2.7	1.5	1.8	2.3	1.5	1.5	24	7.4	1.5	4.1
11/19/07	3.2	23.0	4.9	6.0	2.1	2.4	3.2	2.5	2.4	5.6	6.6	7.9	12.5	17.1	10.6	9.1	3.4	4.6	1.9	5.0	7.0	8.2	3.8	3.4	24	23.0	1.9	6.5
11/20/07	3.0	1.8	2.5	2.4	2.4	2.3	3.3	3.6	4.6	4.4	4.4	5.4	6.9	6.7	6.5	5.4	5.3	3.6	5.2	5.2	5.1	5.4	6.1	5.3	24	6.9	1.8	4.5
11/21/07	4.5	5.6	4.7	4.9	4.6	3.9	5.4	6.1	3.9	5.4	7.4	7.4	8.2	7.6	8.2	7.3	4.6	2.2	1.4	2.2	1.6	1.5	2.2	1.6	24	8.2	1.4	4.7
11/22/07	4.1	3.5	25.5	5.9	5.7	7.2	3.2	2.6	5.1	7.4	7.0	8.7	8.9	8.7	9.9	9.4	6.1	4.5	4.1	2.9	1.8	1.3	2.5	2.4	24	25.5	1.3	6.2
11/23/07	1.6	2.3	1.5	1.8	2.0	2.1	2.3	1.4	4.1	4.1	6.8	6.7	7.1	7.4	6.7	5.0	5.2	6.3	4.9	4.6	5.0	5.9	6.0	4.7	24	7.4	1.4	4.4
11/24/07	5.7	5.0	5.2	4.8	4.9	6.2	2.9	2.3	2.5	4.5	5.6	5.6	5.6	6.7	5.0	4.4	2.4	1.6	1.5	1.9	1.0	1.5	1.6	2.0	24	6.7	1.0	3.8
11/25/07	1.6	2.8	2.0	1.7	2.6	2.4	2.5	2.3	4.6	3.8	4.4	5.0	5.8	5.6	5.6	6.4	3.7	2.3	2.5	1.6	1.7	3.0	1.6	1.3	24	6.4	1.3	3.2
11/26/07	1.3	2.7	2.9	4.3	3.1	7.5	1.9	2.3	2.6	5.6	11.1	7.6	10.7	9.1	6.0	5.5	2.6	1.9	5.7	11.7	4.4	4.6	5.0	5.0	24	11.7	1.3	5.2
11/27/07	5.1	4.1	5.0	11.8	25.6	12.4	7.5	4.4	5.2	6.0	5.1	5.3	6.1	5.9	5.1	6.2	5.1	5.3	5.3	4.7	5.0	5.6	7.9	12.7	24	25.6	4.1	7.2
11/28/07	9.4	8.8	3.0	5.1	4.6	4.5	4.1	4.6	6.4	4.9	5.7	5.4	7.0	6.4	6.6	4.6	4.2	2.8	3.4	3.5	2.8	2.9	5.5	2.8	24	9.4	2.8	5.0
11/29/07	3.8	6.5	5.9	8.7	5.8	11.5	11.1	18.9	11.7	10.0	6.2	12.5	10.2	8.2	5.6	6.1	5.2	3.9	6.1	4.8	3.3	2.5	2.6	3.4	24	18.9	2.5	7.3
11/30/07	3.1	3.8	4.4	5.2	6.0	7.8	3.5	2.6	3.4	6.1	8.1	7.9	7.2	7.9	7.7	15.0	12.7	9.9	4.3	4.1	2.4	3.4	3.3	4.1	24	15.0	2.4	6.0
																									0			
hr max	12.9	23.0	25.5	13.3	25.6	12.4	11.1	18.9	11.7	10.0	15.9	24.3	61.4	49.3	24.3	15.0	12.7	9.9	7.1	11.7	15.2	8.2	7.9	12.7				
hr min	1.3	1.0	1.0	1.5	1.6	1.6	1.5	1.2	1.5	2.7	4.4	4.8	4.6	4.0	3.6	3.3	1.9	1.6	1.4	1.3	1.0	1.3	1.1	1.2				
average	3.9	4.6	5.0	4.7	4.6	4.7	3.7	3.9	4.3	5.5	6.5	7.8	9.4	9.2	7.8	6.6	4.7	3.7	3.5	3.8	3.7	3.5	3.6	3.6				

monthly max hr	monthly min hr	monthly ave hr
61.4	1.0	5.1
11/6/07	11/3/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
Deg
100sT

data channel Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
11/1/07	1.2	1.2	1.4	2.3	1.2	1.2	0.9	1.2	1.4	3.3	6.1	5.1	5.7	5.1	5.5	4.6	4.6	2.8	4.7	1.4	2.5	1.8	1.4	1.3	24	6.1	0.9	2.8
11/2/07	2.9	2.3	3.5	3.8	3.4	3.6	3.2	2.8	4.0	4.5	5.2	5.9	6.4	5.5	6.3	4.7	3.8	2.3	1.8	1.1	1.1	1.6	1.0	1.6	24	6.4	1.0	3.4
11/3/07	10.3	2.7	1.4	2.9	3.0	2.0	1.7	2.1	3.1	3.9	3.6	6.0	4.1	3.5	5.6	5.7	3.7	2.7	1.8	2.5	1.3	3.7	1.7	3.1	24	10.3	1.3	3.4
11/4/07	1.5	1.5	3.0	3.7	1.8	1.9	1.4	1.8	2.3	4.0	4.4	5.3	4.8	6.1	10.3	7.0	3.7	2.7	2.9	3.0	3.8	4.5	3.7	2.8	24	10.3	1.4	3.7
11/5/07	3.2	4.0	3.2	3.2	3.5	3.5	3.3	4.2	4.3	4.7	5.3	5.7	5.2	4.6	4.5	4.0	4.1	2.2	2.3	2.6	1.8	1.2	1.3	1.7	24	5.7	1.2	3.5
11/6/07	1.8	1.6	2.1	1.9	1.8	2.1	2.0	3.6	8.7	7.3	15.2	29.0	46.8	57.5	23.0	11.4	4.9	1.9	1.9	1.6	0.7	0.7	1.2	1.8	24	57.5	0.7	9.6
11/7/07	1.4	2.0	2.2	2.0	2.3	2.4	1.8	1.6	2.9	5.4	8.3	6.4	4.4	5.3	5.3	3.4	2.5	2.1	1.3	4.6	2.1	2.3	1.9	2.5	24	8.3	1.3	3.2
11/8/07	0.9	3.5	4.9	4.0	4.1	4.6	4.5	7.1	3.4	5.7	6.5	6.6	6.1	8.7	12.3	11.8	4.4	4.8	3.6	4.5	2.9	2.1	4.5	7.8	24	12.3	0.9	5.4
11/9/07	4.1	6.6	2.9	4.6	7.8	3.6	5.1	4.5	2.4	3.6	5.2	6.1	7.6	10.8	9.3	5.8	3.8	1.5	1.2	2.3	3.1	3.5	3.2	3.6	24	10.8	1.2	4.7
11/10/07	3.4	3.5	2.6	3.0	2.5	1.1	0.9	1.6	2.1	3.5	9.7	14.9	22.6	21.9	12.2	7.1	5.0	3.6	2.1	2.8	2.0	3.2	2.1	2.1	24	22.6	0.9	5.6
11/11/07	2.4	2.9	1.8	2.2	3.0	6.4	4.9	2.2	2.3	4.2	4.4	4.3	3.9	5.4	5.1	3.8	2.9	2.2	2.2	1.2	1.4	1.7	1.7	1.9	24	6.4	1.2	3.1
11/12/07	2.7	2.0	3.5	16.2	7.1	9.2	1.2	3.1	1.1	4.1	3.6	4.9	5.0	5.6	5.2	5.2	3.3	3.2	2.2	2.5	2.8	3.4	3.3	3.5	24	16.2	1.1	4.3
11/13/07	3.9	3.7	4.4	3.6	3.1	1.6	1.3	1.4	1.6	3.0	5.5	6.6	4.7	4.9	5.4	6.2	4.0	3.5	3.5	3.1	2.7	3.4	3.1	3.4	24	6.6	1.3	3.7
11/14/07	3.3	3.5	3.4	3.6	3.9	4.0	3.7	4.6	4.2	4.3	4.3	4.2	4.3	4.9	4.7	3.9	4.5	2.6	2.4	2.6	2.2	3.4	3.4	2.6	24	4.9	2.2	3.7
11/15/07	2.5	1.9	3.5	2.1	3.8	3.5	2.2	4.2	6.4	1.9	4.5	7.3	6.5	5.2	5.0	4.0	2.9	2.0	1.6	2.8	1.5	2.0	3.4	2.6	24	7.3	1.5	3.5
11/16/07	3.4	1.4	2.2	2.3	1.4	1.9	3.4	3.5	3.3	1.2	3.2	7.0	4.3	6.0	7.0	5.2	5.2	4.9	6.3	4.5	10.4	4.6	4.7	4.2	24	10.4	1.2	4.2
11/17/07	3.8	4.7	4.4	2.7	1.8	3.7	2.9	4.0	5.2	5.1	5.0	6.0	8.1	6.9	5.7	6.7	4.6	4.2	3.7	3.4	3.8	2.4	2.2	3.0	24	8.1	1.8	4.3
11/18/07	3.1	3.5	3.1	3.8	3.7	3.7	4.3	3.3	3.5	5.2	4.9	5.8	6.6	6.5	3.3	3.2	3.5	9.5	4.5	1.9	1.3	2.6	2.5	2.3	24	9.5	1.3	4.0
11/19/07	5.9	31.7	3.6	3.8	1.3	1.7	3.2	2.1	1.1	5.7	6.3	6.4	12.2	13.8	9.5	8.1	3.0	3.4	1.6	2.0	1.6	3.9	1.8	3.1	24	31.7	1.1	5.7
11/20/07	1.8	1.8	2.2	1.8	1.5	1.9	3.1	2.9	3.5	5.3	5.5	6.4	6.6	7.0	7.0	5.8	5.6	2.9	3.8	5.0	6.3	6.5	7.0	6.6	24	7.0	1.5	4.5
11/21/07	5.8	7.9	5.8	4.7	5.6	6.9	5.3	3.9	4.4	5.4	6.5	7.9	8.6	7.6	8.8	7.1	5.0	3.1	1.0	3.5	1.4	1.2	1.2	1.2	24	8.8	1.0	5.0
11/22/07	0.8	3.9	8.1	5.9	3.7	2.0	4.6	5.1	4.0	5.0	7.0	7.8	9.0	7.8	10.5	8.4	6.2	3.1	2.9	2.5	1.7	1.6	2.6	1.1	24	10.5	0.8	4.8
11/23/07	0.7	1.4	1.4	1.8	1.5	2.3	2.4	1.4	4.0	3.4	6.9	5.9	5.9	6.6	6.3	4.8	4.8	5.1	3.9	3.8	4.3	4.7	4.9	3.8	24	6.9	0.7	3.8
11/24/07	5.1	4.2	4.6	4.6	3.0	5.2	2.3	2.0	1.4	2.9	5.4	4.9	4.5	5.5	4.3	3.8	2.0	1.6	1.3	1.3	0.6	2.0	1.7	1.3	24	5.5	0.6	3.1
11/25/07	1.5	3.0	2.1	1.8	2.0	5.5	2.8	2.0	2.1	2.1	3.7	4.3	5.2	4.8	4.8	5.4	3.0	1.9	1.8	1.1	1.1	2.4	1.4	0.8	24	5.5	0.8	2.8
11/26/07	2.8	1.3	2.9	3.9	2.5	5.5	1.9	2.9	3.0	6.6	12.8	7.7	8.8	8.6	5.4	4.1	1.9	2.2	4.8	10.0	6.5	6.5	5.6	6.3	24	12.8	1.3	5.2
11/27/07	6.1	4.1	4.6	11.7	25.9	11.4	7.9	4.1	4.1	4.6	3.9	4.0	4.5	4.5	4.1	4.7	4.1	4.3	4.7	4.0	4.1	4.7	7.4	12.8	24	25.9	3.9	6.5
11/28/07	20.8	2.7	3.4	3.3	3.4	3.4	3.2	4.0	5.5	4.4	5.2	4.6	6.0	5.7	5.7	3.8	3.4	1.9	1.8	1.7	3.2	3.2	4.4	1.9	24	20.8	1.7	4.4
11/29/07	3.4	5.6	5.1	4.7	2.8	7.2	8.3	11.1	7.8	6.8	5.9	12.3	9.7	7.2	4.8	5.4	4.3	3.0	3.8	2.1	2.1	2.0	2.9	3.0	24	12.3	2.0	5.5
11/30/07	2.3	2.8	3.0	3.5	3.9	7.0	2.8	1.8	2.0	4.4	7.2	7.5	7.4	7.4	7.2	14.2	9.9	8.9	4.3	2.9	1.5	2.1	2.0	3.1	24	14.2	1.5	5.0
																									0			

hr max	20.8	31.7	8.1	16.2	25.9	11.4	8.3	11.1	8.7	7.3	15.2	29.0	46.8	57.5	23.0	14.2	9.9	9.5	6.3	10.0	10.4	6.5	7.4	12.8
hr min	0.7	1.2	1.4	1.8	1.2	1.1	0.9	1.2	1.1	1.2	3.2	4.0	3.9	3.5	3.3	3.2	1.9	1.5	1.0	1.1	0.6	0.7	1.0	0.8
average	3.8	4.1	3.3	4.0	3.9	4.0	3.2	3.3	3.5	4.4	6.0	7.2	8.2	8.7	7.1	6.0	4.2	3.3	2.9	2.9	2.7	3.0	3.0	3.2

monthly max hr	monthly min hr	monthly ave hr
57.5	0.6	4.4
11/6/07	11/24/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
mps
10VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	0.07	0.10	0.11	0.07	0.07	0.12	0.12	0.16	0.19	0.24	0.25	0.25	0.22	0.26	0.20	0.28	0.28	0.21	0.25	0.27	0.34	0.38	0.41	0.45	24	0.45	0.07	0.22
11/2/07	0.56	0.65	1.02	1.01	0.93	0.78	0.66	0.55	0.60	0.81	0.78	0.91	1.08	1.24	1.20	1.16	0.93	0.53	0.46	0.47	0.39	0.41	0.37	0.41	24	1.24	0.37	0.75
11/3/07	0.27	0.27	0.25	0.14	0.15	0.14	0.13	0.15	0.18	0.21	0.32	0.61	0.94	0.80	0.78	0.89	1.02	0.68	0.44	0.43	0.47	0.41	0.40	0.31	24	1.02	0.13	0.43
11/4/07	0.29	0.28	0.31	0.24	0.24	0.15	0.18	0.18	0.17	0.22	0.26	0.28	0.49	0.61	0.52	0.74	0.80	0.70	0.82	0.68	0.91	1.07	0.89	0.85	24	1.07	0.15	0.50
11/5/07	0.85	0.81	0.84	0.80	0.80	0.83	0.74	0.87	1.04	1.35	1.53	1.45	1.49	1.39	1.51	1.34	1.01	0.70	0.61	0.47	0.49	0.57	0.42	0.48	24	1.53	0.42	0.93
11/6/07	0.44	0.38	0.41	0.38	0.42	0.39	0.29	0.24	0.26	0.26	0.19	0.15	0.14	0.11	0.07	0.07	0.05	0.11	0.06	0.17	0.20	0.23	0.28	0.25	24	0.44	0.05	0.23
11/7/07	0.31	0.23	0.13	0.14	0.16	0.19	0.20	0.23	0.20	0.33	0.37	0.45	0.58	0.59	0.68	0.57	0.38	0.41	0.43	0.38	0.36	0.21	0.12	0.12	24	0.68	0.12	0.32
11/8/07	0.12	0.11	0.11	0.11	0.11	0.15	0.14	0.19	0.18	0.24	0.25	0.34	0.26	0.23	0.21	0.15	0.20	0.18	0.15	0.15	0.10	0.10	0.15	0.19	24	0.34	0.10	0.17
11/9/07	0.13	0.17	0.22	0.21	0.26	0.30	0.39	0.40	0.35	0.47	0.37	0.38	0.25	0.20	0.24	0.22	0.24	0.18	0.19	0.23	0.29	0.29	0.30	0.27	24	0.47	0.13	0.27
11/10/07	0.33	0.38	0.37	0.38	0.27	0.23	0.22	0.16	0.16	0.16	0.18	0.19	0.20	0.20	0.14	0.21	0.16	0.13	0.15	0.18	0.18	0.18	0.17	0.21	24	0.38	0.13	0.21
11/11/07	0.11	0.13	0.13	0.15	0.17	0.17	0.29	0.60	0.63	1.00	1.13	1.28	1.31	0.86	0.80	0.72	0.46	0.32	0.36	0.35	0.29	0.27	0.29	0.30	24	1.31	0.11	0.51
11/12/07	0.30	0.23	0.22	0.26	0.25	0.28	0.23	0.25	0.28	0.29	0.36	0.36	0.28	0.42	0.32	0.31	0.22	0.20	0.24	0.30	0.36	0.37	0.34	0.35	24	0.42	0.20	0.29
11/13/07	0.34	0.37	0.40	0.33	0.26	0.21	0.27	0.23	0.25	0.29	0.26	0.57	1.41	1.49	1.04	0.88	0.70	0.71	0.72	0.78	0.65	0.65	0.68	0.99	24	1.49	0.21	0.60
11/14/07	1.08	1.12	1.03	1.15	1.19	1.37	1.29	1.35	1.60	1.66	1.49	1.60	1.48	1.43	1.31	1.11	0.96	0.74	0.71	0.94	0.65	0.45	0.41	0.42	24	1.66	0.41	1.11
11/15/07	0.48	0.50	0.33	0.29	0.31	0.26	0.32	0.23	0.19	0.16	0.10	0.13	0.18	0.20	0.30	0.35	0.31	0.24	0.35	0.28	0.20	0.19	0.15	0.17	24	0.50	0.10	0.26
11/16/07	0.19	0.22	0.24	0.25	0.45	0.44	0.49	0.46	0.41	0.42	0.48	0.46	0.45	0.46	0.53	0.39	0.22	0.20	0.25	0.34	0.20	0.17	0.16	0.17	24	0.53	0.16	0.34
11/17/07	0.16	0.12	0.14	0.17	0.20	0.25	0.23	0.25	0.27	0.38	0.39	0.36	0.33	0.30	0.30	0.31	0.31	0.28	0.23	0.26	0.29	0.30	0.32	0.32	24	0.39	0.12	0.27
11/18/07	0.34	0.31	0.26	0.32	0.34	0.44	0.38	0.38	0.31	0.21	0.25	0.19	0.22	0.28	0.29	0.22	0.19	0.18	0.20	0.18	0.19	0.18	0.16	0.14	24	0.44	0.14	0.26
11/19/07	0.22	0.32	0.37	0.34	0.34	0.33	0.33	0.32	0.23	0.29	0.35	0.34	0.26	0.26	0.26	0.31	0.25	0.20	0.15	0.14	0.17	0.27	0.20	0.21	24	0.37	0.14	0.27
11/20/07	0.26	0.25	0.28	0.28	0.29	0.28	0.33	0.40	0.42	0.35	0.42	0.42	0.47	0.56	0.51	0.47	0.41	0.44	0.41	0.51	0.49	0.48	0.45	0.40	24	0.56	0.25	0.40
11/21/07	0.35	0.37	0.37	0.30	0.32	0.28	0.32	0.28	0.37	0.50	0.45	0.47	0.52	0.55	0.45	0.42	0.36	0.31	0.33	0.25	0.27	0.18	0.26	0.21	24	0.55	0.18	0.35
11/22/07	0.16	0.14	0.13	0.13	0.12	0.15	0.13	0.15	0.16	0.29	0.33	0.41	0.42	0.40	0.44	0.40	0.29	0.13	0.19	0.13	0.09	0.12	0.12	0.16	24	0.44	0.09	0.22
11/23/07	0.16	0.19	0.20	0.24	0.21	0.20	0.16	0.18	0.28	0.33	0.42	0.64	0.53	0.57	0.66	0.59	0.55	0.48	0.38	0.36	0.40	0.36	0.36	0.41	24	0.66	0.16	0.37
11/24/07	0.38	0.38	0.36	0.21	0.12	0.11	0.16	0.19	0.17	0.26	0.34	0.46	0.41	0.33	0.29	0.27	0.23	0.17	0.18	0.19	0.20	0.18	0.17	0.18	24	0.46	0.11	0.25
11/25/07	0.16	0.19	0.20	0.19	0.18	0.17	0.23	0.41	0.65	0.70	0.79	0.95	1.10	1.17	0.95	0.81	0.55	0.36	0.42	0.46	0.34	0.42	0.43	0.43	24	1.17	0.16	0.51
11/26/07	0.46	0.47	0.45	0.39	0.30	0.20	0.34	0.40	0.38	0.39	0.28	0.28	0.37	0.39	0.41	0.32	0.25	0.17	0.54	0.83	0.78	0.57	0.69	0.71	24	0.83	0.17	0.43
11/27/07	0.49	0.49	0.40	0.21	0.15	0.14	0.17	0.27	0.29	0.37	0.39	0.50	0.59	0.50	0.55	0.49	0.42	0.35	0.32	0.27	0.25	0.24	0.16	0.14	24	0.59	0.14	0.34
11/28/07	0.17	0.20	0.21	0.38	0.63	0.88	0.88	0.83	0.93	1.27	1.32	1.32	1.14	1.09	1.07	1.07	0.81	0.46	0.28	0.24	0.28	0.40	0.45	0.51	24	1.32	0.17	0.70
11/29/07	0.43	0.43	0.38	0.22	0.30	0.26	0.20	0.13	0.16	0.27	0.34	0.24	0.29	0.35	0.33	0.35	0.39	0.32	0.18	0.35	0.54	0.68	0.56	0.63	24	0.68	0.13	0.35
11/30/07	0.67	0.51	0.45	0.45	0.42	0.40	0.50	0.51	0.49	0.47	0.49	0.45	0.48	0.43	0.35	0.25	0.18	0.11	0.10	0.13	0.13	0.16	0.22	0.24	24	0.67	0.10	0.36
																									0			
hr max	1.08	1.12	1.03	1.15	1.19	1.37	1.29	1.35	1.60	1.66	1.53	1.60	1.49	1.49	1.51	1.34	1.02	0.74	0.82	0.94	0.91	1.07	0.89	0.99				
hr min	0.07	0.10	0.11	0.07	0.07	0.11	0.12	0.13	0.16	0.16	0.10	0.13	0.14	0.11	0.07	0.07	0.05	0.11	0.06	0.13	0.09	0.10	0.12	0.12				
average	0.34	0.34	0.34	0.32	0.33	0.34	0.34	0.37	0.39	0.47	0.50	0.55	0.60	0.59	0.56	0.52	0.44	0.34	0.34	0.36	0.35	0.35	0.34	0.35				

monthly max hr	monthly min hr	monthly ave hr
1.66	0.05	0.41
11/14/07	11/6/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
mps
50VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	0.73	0.63	0.60	0.54	0.39	0.52	0.50	0.62	0.55	0.39	0.30	0.27	0.34	0.27	0.25	0.35	0.35	0.54	0.57	0.54	0.58	0.40	0.34	0.62	24	0.73	0.25	0.47
11/2/07	0.51	0.66	0.76	0.66	0.67	0.52	0.41	0.39	0.42	0.43	0.49	0.47	0.65	0.76	0.83	0.60	0.65	0.42	0.57	0.58	0.68	0.50	0.36	0.32	24	0.83	0.32	0.55
11/3/07	0.34	0.52	0.39	0.42	0.34	0.24	0.11	0.20	0.34	0.43	0.51	0.42	0.58	0.34	0.55	0.50	0.65	0.56	0.52	0.48	0.52	0.47	0.53	0.71	24	0.71	0.11	0.44
11/4/07	0.80	0.83	0.78	0.71	0.65	0.52	0.62	0.60	0.49	0.34	0.35	0.34	0.56	0.38	0.24	0.52	0.53	0.52	0.64	0.53	0.61	0.85	0.70	0.64	24	0.85	0.24	0.57
11/5/07	0.58	0.54	0.61	0.64	0.64	0.56	0.59	0.61	0.68	0.74	1.07	0.94	0.94	0.81	0.93	0.88	0.57	0.50	0.49	0.45	0.46	0.56	0.48	0.46	24	1.07	0.45	0.66
11/6/07	0.52	0.27	0.30	0.29	0.34	0.33	0.20	0.17	0.13	0.06	0.00	-0.10	-0.22	0.07	0.02	0.10	0.12	0.32	0.15	0.60	0.60	0.65	0.70	0.58	24	0.70	-0.22	0.26
11/7/07	0.65	0.59	0.44	0.38	0.11	0.52	0.75	0.80	0.42	0.30	0.18	0.28	0.30	0.26	0.35	0.29	0.24	0.11	0.27	0.37	0.14	0.24	0.06	0.05	24	0.80	0.05	0.34
11/8/07	0.05	0.05	0.20	0.09	0.13	0.03	0.09	0.24	0.24	0.29	0.24	0.47	0.38	0.22	0.15	0.09	0.32	0.27	0.24	0.28	0.19	0.10	0.13	0.24	24	0.47	0.03	0.20
11/9/07	0.34	0.37	0.42	0.35	0.53	0.47	0.42	0.26	0.27	0.25	0.30	0.23	0.05	0.12	0.25	0.18	0.24	0.35	0.39	0.36	0.39	0.43	0.43	0.44	24	0.53	0.05	0.33
11/10/07	0.65	0.67	0.81	0.74	0.43	0.53	0.56	0.34	0.32	0.12	0.20	0.04	0.08	0.19	0.02	0.19	0.28	0.30	0.40	0.59	0.59	0.55	0.64	0.63	24	0.81	0.02	0.41
11/11/07	0.19	0.40	0.60	0.68	0.37	0.39	0.44	0.62	0.50	0.56	0.71	0.78	0.92	0.52	0.46	0.41	0.30	0.42	0.43	0.34	0.30	0.34	0.31	0.26	24	0.92	0.19	0.47
11/12/07	0.32	0.15	0.12	0.27	0.33	0.39	0.59	0.66	0.50	0.23	0.33	0.35	0.38	0.50	0.46	0.46	0.55	0.48	0.09	0.31	0.48	0.64	0.73	0.79	24	0.79	0.09	0.42
11/13/07	0.67	0.53	0.62	0.66	0.65	0.72	0.92	0.87	0.83	0.59	0.37	0.41	0.94	0.97	0.61	0.56	0.48	0.54	0.59	0.62	0.62	0.65	0.65	0.89	24	0.97	0.37	0.67
11/14/07	0.97	0.97	0.87	0.94	0.94	1.16	0.99	1.01	1.16	1.29	1.05	1.09	1.07	1.05	0.91	0.60	0.73	0.58	0.62	0.73	0.55	0.50	0.47	0.52	24	1.29	0.47	0.87
11/15/07	0.71	0.69	0.44	0.38	0.41	0.43	0.40	0.34	0.32	0.23	0.20	0.28	0.20	0.22	0.48	0.54	0.54	0.55	0.67	0.56	0.44	0.58	0.40	0.63	24	0.71	0.20	0.44
11/16/07	0.53	0.43	0.45	0.41	0.73	0.65	0.78	0.58	0.49	0.29	0.36	0.33	0.24	0.21	0.27	0.16	0.16	0.11	0.14	0.14	0.14	0.12	0.17	0.20	24	0.78	0.11	0.34
11/17/07	0.12	0.06	0.09	0.17	0.16	0.19	0.17	0.17	0.22	0.39	0.33	0.41	0.31	0.20	0.34	0.36	0.21	0.34	0.28	0.30	0.44	0.49	0.58	0.56	24	0.58	0.06	0.29
11/18/07	0.53	0.48	0.42	0.44	0.47	0.66	0.52	0.62	0.49	0.31	0.28	0.14	0.27	0.50	0.62	0.51	0.51	0.30	0.40	0.72	0.70	0.64	0.55	0.49	24	0.72	0.14	0.48
11/19/07	0.30	0.32	0.40	0.32	0.27	0.39	0.43	0.39	0.44	0.18	0.13	-0.07	0.09	0.04	0.05	0.19	0.23	0.21	0.20	0.16	0.07	0.07	0.08	0.13	24	0.44	-0.07	0.21
11/20/07	0.28	0.33	0.24	0.29	0.30	0.33	0.29	0.28	0.22	0.18	0.28	0.23	0.20	0.35	0.28	0.20	0.29	0.33	0.30	0.28	0.35	0.31	0.36	0.23	24	0.36	0.18	0.28
11/21/07	0.22	0.29	0.21	0.23	0.18	0.20	0.18	0.18	0.24	0.28	0.27	0.24	0.33	0.39	0.29	0.24	0.24	0.20	0.26	0.19	0.16	0.07	0.08	0.07	24	0.39	0.07	0.22
11/22/07	0.05	0.02	0.02	0.05	0.09	0.10	0.05	0.20	0.27	0.21	0.14	0.21	0.26	0.07	0.28	0.25	0.18	0.17	0.37	0.30	0.18	0.02	0.28	0.71	24	0.71	0.02	0.19
11/23/07	0.71	0.66	0.73	0.72	0.72	0.63	0.61	0.63	0.42	0.30	0.23	0.36	0.39	0.37	0.36	0.22	0.28	0.23	0.20	0.22	0.23	0.15	0.12	0.21	24	0.73	0.12	0.40
11/24/07	0.20	0.17	0.14	0.06	0.02	0.33	0.55	0.59	0.56	0.41	0.48	0.41	0.50	0.55	0.46	0.55	0.63	0.75	0.85	0.83	0.84	0.72	0.66	0.77	24	0.85	0.02	0.50
11/25/07	0.68	0.72	0.76	0.73	0.69	0.64	0.73	0.80	0.71	0.64	0.57	0.64	0.75	0.72	0.58	0.50	0.34	0.35	0.42	0.53	0.40	0.40	0.42	0.45	24	0.80	0.34	0.59
11/26/07	0.50	0.50	0.41	0.24	0.20	0.18	0.49	0.52	0.31	0.17	0.14	-0.02	0.31	0.17	0.35	0.42	0.56	0.59	0.72	0.71	0.66	0.49	0.57	0.55	24	0.72	-0.02	0.41
11/27/07	0.37	0.32	0.26	0.13	0.09	0.08	0.18	0.36	0.40	0.48	0.65	0.71	0.88	0.81	0.75	0.58	0.54	0.44	0.37	0.28	0.22	0.16	0.12	0.05	24	0.88	0.05	0.38
11/28/07	0.05	0.16	0.49	0.52	0.57	0.76	0.74	0.51	0.70	0.94	0.90	0.87	0.64	0.74	0.77	0.78	0.57	0.45	0.40	0.49	0.54	0.60	0.54	0.49	24	0.94	0.05	0.59
11/29/07	0.35	0.31	0.22	0.10	0.13	0.16	0.09	0.08	0.08	0.11	0.19	0.17	0.10	0.13	0.14	0.17	0.20	0.17	0.16	0.37	0.57	0.62	0.61	0.54	24	0.62	0.08	0.24
11/30/07	0.56	0.44	0.35	0.32	0.30	0.47	0.58	0.50	0.50	0.31	0.40	0.38	0.43	0.28	0.20	0.19	0.10	0.04	0.19	0.20	0.46	0.51	0.53	0.42	24	0.58	0.04	0.36
																									0			
hr max	0.97	0.97	0.87	0.94	0.94	1.16	0.99	1.01	1.16	1.29	1.07	1.09	1.07	1.05	0.93	0.88	0.73	0.75	0.85	0.83	0.84	0.85	0.73	0.89				
hr min	0.05	0.02	0.02	0.05	0.02	0.03	0.05	0.08	0.08	0.06	0.00	-0.10	-0.22	0.04	0.02	0.09	0.10	0.04	0.09	0.14	0.07	0.02	0.06	0.05				
average	0.45	0.44	0.44	0.42	0.40	0.44	0.47	0.47	0.44	0.38	0.39	0.38	0.43	0.41	0.41	0.39	0.39	0.37	0.40	0.44	0.44	0.43	0.42	0.46				

monthly	monthly	monthly
max hr	min hr	ave hr
1.29	-0.22	0.42
11/14/07	11/6/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
mps
100VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	0.28	0.28	0.12	0.02	-0.26	-0.36	-0.29	-0.02	0.00	0.29	0.14	0.11	0.27	0.09	0.09	0.19	0.19	0.17	0.52	0.73	0.52	0.56	0.56	0.67	24	0.73	-0.36	0.20
11/2/07	0.73	0.92	0.83	0.75	0.81	0.66	0.56	0.54	0.48	0.30	0.47	0.41	0.51	0.59	0.72	0.47	0.61	0.49	0.65	0.59	0.67	0.47	0.47	0.44	24	0.92	0.30	0.59
11/3/07	0.24	0.11	0.10	0.00	-0.02	0.39	-0.09	0.26	0.58	0.19	0.32	0.40	0.54	0.23	0.60	0.52	0.92	0.88	0.61	0.50	0.47	0.40	0.00	0.04	24	0.92	-0.09	0.34
11/4/07	0.00	0.46	0.08	0.00	0.00	0.06	0.22	0.29	0.09	0.20	0.17	0.16	0.44	0.24	0.19	0.63	0.61	0.65	0.85	0.72	0.92	1.23	1.01	0.89	24	1.23	0.00	0.42
11/5/07	0.82	0.80	0.75	0.81	0.75	0.76	0.75	0.74	0.64	0.67	1.06	0.98	0.89	0.80	1.03	1.08	0.81	0.78	0.83	0.90	0.72	0.84	0.87	0.67	24	1.08	0.64	0.82
11/6/07	0.70	0.50	0.50	0.46	0.39	0.44	0.31	0.17	0.14	0.17	-0.03	-0.04	-0.58	0.05	-0.01	-0.08	-0.18	-0.24	0.07	0.16	0.00	0.07	0.45	0.32	24	0.70	-0.58	0.16
11/7/07	0.50	0.13	-1.47	-0.64	0.88	0.74	0.76	0.70	0.31	0.33	0.19	0.46	0.46	0.28	0.35	0.46	0.39	0.34	0.49	0.58	0.63	0.60	0.36	0.23	24	0.88	-1.47	0.34
11/8/07	0.10	0.00	0.18	0.12	0.07	0.02	0.05	0.33	0.37	0.30	0.18	0.47	0.19	-0.03	0.02	0.08	0.23	0.30	0.31	0.30	0.13	0.06	-0.01	0.26	24	0.47	-0.03	0.17
11/9/07	0.21	0.32	0.30	0.21	0.34	0.12	0.43	0.48	0.59	0.47	0.53	0.37	0.11	0.11	0.32	0.13	0.21	0.30	0.43	0.43	0.38	0.41	0.43	0.43	24	0.59	0.11	0.34
11/10/07	0.74	0.65	0.29	0.29	0.08	0.47	0.45	0.33	0.04	-0.25	0.14	0.09	0.02	0.10	-0.14	0.07	0.09	0.11	0.44	0.51	0.44	0.43	0.42	0.53	24	0.74	-0.25	0.26
11/11/07	-0.39	-0.39	-0.39	-0.84	0.46	0.33	0.55	1.21	1.05	0.85	0.86	0.86	0.91	0.54	0.47	0.41	0.40	0.55	0.66	0.72	0.62	0.58	0.43	0.29	24	1.21	-0.84	0.45
11/12/07	0.40	0.37	0.17	0.24	0.12	0.16	0.03	0.11	0.00	0.16	0.13	0.18	0.16	0.27	0.23	0.32	0.45	0.78	1.21	1.24	1.13	1.06	0.93	0.88	24	1.24	0.00	0.45
11/13/07	0.68	1.10	1.05	0.89	0.72	0.40	0.77	0.67	0.50	0.43	0.33	0.47	1.05	0.94	0.64	0.65	0.65	0.60	0.59	0.62	0.68	0.80	0.71	0.92	24	1.10	0.33	0.70
11/14/07	1.01	1.00	0.91	0.96	0.93	1.19	1.07	0.92	1.10	1.29	1.03	1.10	1.07	1.13	1.04	0.71	0.90	0.87	0.88	0.98	0.77	0.59	0.48	0.54	24	1.29	0.48	0.94
11/15/07	0.64	0.68	0.48	0.32	0.38	0.49	0.39	0.19	0.05	0.01	0.21	0.11	-0.17	-0.26	0.16	0.16	0.14	0.56	0.72	0.50	0.06	0.01	0.14	0.34	24	0.72	-0.26	0.26
11/16/07	0.41	0.30	0.48	0.65	0.68	0.26	0.27	0.55	0.62	0.46	0.67	0.48	0.26	0.26	0.30	0.13	0.18	0.20	0.19	0.23	0.23	0.24	0.28	0.24	24	0.68	0.13	0.36
11/17/07	0.13	0.11	0.00	-0.06	0.24	0.38	0.41	0.35	0.31	0.38	0.24	0.46	0.28	0.09	0.28	0.37	0.26	0.35	0.33	0.37	0.40	0.45	0.49	0.45	24	0.49	-0.06	0.29
11/18/07	0.49	0.39	0.24	0.35	0.39	0.50	0.36	0.19	0.16	-0.44	-0.54	-0.52	0.16	0.33	0.41	0.26	0.13	0.10	0.30	0.44	0.40	0.23	-0.05	0.00	24	0.50	-0.54	0.18
11/19/07	0.14	0.57	0.93	0.87	0.91	0.90	0.84	0.77	0.70	0.42	0.27	-0.02	0.16	0.10	0.08	0.27	0.38	0.48	0.58	0.59	0.04	0.08	0.26	0.50	24	0.93	-0.02	0.45
11/20/07	0.74	0.64	0.55	0.58	0.65	0.58	0.58	0.61	0.48	0.37	0.43	0.34	0.37	0.56	0.50	0.41	0.54	0.71	0.60	0.57	0.59	0.53	0.71	0.44	24	0.74	0.34	0.55
11/21/07	0.46	0.54	0.42	0.44	0.40	0.41	0.36	0.39	0.44	0.43	0.43	0.39	0.61	0.51	0.51	0.41	0.43	0.43	0.46	0.43	0.35	0.36	0.32	0.33	24	0.61	0.32	0.43
11/22/07	0.11	0.01	0.01	0.04	0.06	0.04	0.02	0.19	0.21	0.23	0.18	0.24	0.25	0.00	0.31	0.17	0.14	0.04	0.07	0.00	0.00	0.02	0.38	0.31	24	0.38	0.00	0.13
11/23/07	0.44	0.43	0.52	0.45	0.67	0.49	0.37	0.52	0.35	0.23	0.15	0.31	0.28	0.24	0.30	0.31	0.38	0.37	0.27	0.29	0.32	0.29	0.20	0.33	24	0.67	0.15	0.35
11/24/07	0.23	0.20	0.19	0.09	0.14	0.16	0.20	0.07	0.04	0.26	0.29	0.26	0.24	0.29	0.19	0.35	0.45	0.58	0.70	0.71	0.74	0.58	0.00	0.01	24	0.74	0.00	0.29
11/25/07	0.56	0.29	0.00	0.18	0.57	0.55	0.56	0.69	0.98	0.94	0.64	0.68	0.78	0.78	0.66	0.70	0.50	0.58	0.73	0.88	0.77	0.80	0.80	0.76	24	0.98	0.00	0.64
11/26/07	0.76	0.83	0.68	0.38	0.31	0.17	0.03	0.15	0.36	0.15	0.09	-0.08	0.36	0.10	0.22	0.27	0.20	0.45	0.78	1.02	0.96	0.84	0.80	0.73	24	1.02	-0.08	0.44
11/27/07	0.49	0.49	0.39	0.18	0.06	0.07	0.14	0.30	0.27	0.31	0.47	0.50	0.64	0.57	0.39	0.39	0.39	0.35	0.29	0.23	0.24	0.18	0.13	0.04	24	0.64	0.04	0.31
11/28/07	0.06	0.09	0.42	0.74	0.78	0.82	1.05	0.67	0.85	1.05	0.92	0.84	0.63	0.79	0.78	0.79	0.64	0.58	0.52	0.68	0.73	0.85	0.80	0.88	24	1.05	0.06	0.71
11/29/07	0.59	0.51	0.47	0.26	0.22	0.27	0.16	0.12	0.07	0.13	0.26	0.25	0.16	0.18	0.24	0.18	0.27	0.17	0.20	0.74	0.95	0.81	0.66	0.66	24	0.95	0.07	0.36
11/30/07	0.73	0.56	0.58	0.49	0.49	0.34	0.60	0.35	0.69	0.43	0.41	0.33	0.40	0.26	0.17	0.23	0.02	0.02	-0.06	0.07	-0.90	-0.71	0.36	0.17	24	0.73	-0.90	0.25
																									0			
hr max	1.01	1.10	1.05	0.96	0.93	1.19	1.07	1.21	1.10	1.29	1.06	1.10	1.07	1.13	1.04	1.08	0.92	0.88	1.21	1.24	1.13	1.23	1.01	0.92				
hr min	-0.39	-0.39	-1.47	-0.84	-0.26	-0.36	-0.29	-0.02	0.00	-0.44	-0.54	-0.52	-0.58	-0.26	-0.14	-0.08	-0.18	-0.24	-0.06	0.00	-0.90	-0.71	-0.05	0.00				
average	0.43	0.43	0.33	0.31	0.41	0.39	0.40	0.43	0.42	0.36	0.35	0.35	0.38	0.34	0.37	0.37	0.38	0.42	0.51	0.56	0.47	0.46	0.45	0.44				

monthly	monthly	monthly
max hr	min hr	ave hr
1.29	-1.47	0.41
11/14/07	11/7/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
Deg
10SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
11/1/07	0.20	0.24	0.25	0.25	0.24	0.29	0.28	0.28	0.36	0.44	0.47	0.50	0.49	0.53	0.52	0.48	0.48	0.20	0.17	0.13	0.14	0.13	0.11	0.14	24	0.53	0.11	0.31
11/2/07	0.27	0.41	0.51	0.53	0.47	0.42	0.34	0.29	0.39	0.44	0.47	0.54	0.59	0.64	0.61	0.56	0.49	0.21	0.13	0.14	0.16	0.15	0.11	0.11	24	0.64	0.11	0.37
11/3/07	0.16	0.13	0.13	0.07	0.10	0.14	0.22	0.27	0.27	0.41	0.41	0.46	0.48	0.41	0.43	0.50	0.52	0.33	0.12	0.14	0.15	0.14	0.11	0.20	24	0.52	0.07	0.26
11/4/07	0.17	0.26	0.25	0.22	0.17	0.14	0.19	0.20	0.29	0.41	0.45	0.45	0.51	0.49	0.44	0.42	0.44	0.34	0.45	0.37	0.49	0.62	0.54	0.42	24	0.62	0.14	0.36
11/5/07	0.46	0.46	0.44	0.42	0.41	0.45	0.41	0.50	0.53	0.60	0.65	0.65	0.63	0.61	0.65	0.61	0.52	0.36	0.26	0.26	0.19	0.23	0.23	0.14	24	0.65	0.14	0.44
11/6/07	0.14	0.13	0.14	0.13	0.14	0.13	0.13	0.13	0.18	0.26	0.39	0.51	0.50	0.48	0.32	0.27	0.23	0.05	0.12	0.26	0.28	0.40	0.47	0.49	24	0.51	0.05	0.26
11/7/07	0.53	0.53	0.40	0.34	0.27	0.26	0.27	0.29	0.29	0.30	0.32	0.36	0.34	0.37	0.39	0.31	0.15	0.09	0.09	0.12	0.11	0.13	0.07	0.06	24	0.53	0.06	0.27
11/8/07	0.06	0.05	0.09	0.07	0.08	0.13	0.14	0.22	0.30	0.38	0.38	0.48	0.49	0.50	0.40	0.32	0.23	0.17	0.14	0.15	0.16	0.13	0.14	0.11	24	0.50	0.05	0.22
11/9/07	0.13	0.11	0.15	0.20	0.23	0.18	0.13	0.13	0.28	0.41	0.45	0.41	0.35	0.42	0.42	0.35	0.29	0.16	0.19	0.35	0.46	0.49	0.46	0.42	24	0.49	0.11	0.30
11/10/07	0.57	0.56	0.63	0.61	0.42	0.38	0.32	0.22	0.14	0.21	0.36	0.37	0.42	0.38	0.34	0.28	0.15	0.06	0.10	0.20	0.16	0.15	0.21	0.19	24	0.63	0.06	0.31
11/11/07	0.20	0.31	0.27	0.28	0.23	0.10	0.15	0.31	0.37	0.56	0.63	0.55	0.56	0.50	0.40	0.38	0.25	0.14	0.16	0.12	0.11	0.11	0.10	0.10	24	0.63	0.10	0.29
11/12/07	0.11	0.11	0.17	0.19	0.17	0.24	0.19	0.19	0.24	0.38	0.47	0.50	0.51	0.56	0.54	0.46	0.36	0.24	0.39	0.50	0.50	0.54	0.54	0.58	24	0.58	0.11	0.36
11/13/07	0.57	0.58	0.60	0.54	0.41	0.26	0.30	0.28	0.29	0.37	0.35	0.46	0.67	0.62	0.53	0.48	0.41	0.44	0.43	0.48	0.39	0.41	0.48	0.59	24	0.67	0.26	0.46
11/14/07	0.59	0.62	0.56	0.58	0.63	0.67	0.65	0.65	0.73	0.71	0.69	0.67	0.65	0.71	0.64	0.55	0.49	0.38	0.33	0.48	0.32	0.20	0.20	0.17	24	0.73	0.17	0.54
11/15/07	0.24	0.25	0.22	0.17	0.15	0.14	0.14	0.14	0.23	0.28	0.37	0.44	0.42	0.44	0.53	0.55	0.43	0.30	0.50	0.43	0.27	0.27	0.18	0.14	24	0.55	0.14	0.30
11/16/07	0.12	0.11	0.11	0.17	0.23	0.24	0.24	0.24	0.25	0.28	0.31	0.32	0.30	0.34	0.37	0.25	0.14	0.10	0.12	0.11	0.11	0.13	0.17	0.17	24	0.37	0.10	0.21
11/17/07	0.12	0.07	0.08	0.11	0.13	0.24	0.18	0.27	0.43	0.50	0.51	0.51	0.53	0.51	0.44	0.43	0.38	0.35	0.35	0.36	0.48	0.44	0.47	0.49	24	0.53	0.07	0.35
11/18/07	0.51	0.46	0.41	0.49	0.46	0.53	0.52	0.53	0.53	0.45	0.46	0.50	0.48	0.53	0.49	0.37	0.23	0.18	0.17	0.21	0.15	0.14	0.11	0.07	24	0.53	0.07	0.37
11/19/07	0.13	0.17	0.23	0.17	0.12	0.14	0.12	0.12	0.12	0.27	0.36	0.42	0.46	0.40	0.38	0.34	0.16	0.13	0.11	0.10	0.09	0.11	0.13	0.12	24	0.46	0.09	0.20
11/20/07	0.11	0.11	0.12	0.13	0.11	0.17	0.24	0.34	0.37	0.30	0.32	0.37	0.44	0.44	0.42	0.40	0.35	0.38	0.38	0.44	0.44	0.41	0.38	0.36	24	0.44	0.11	0.31
11/21/07	0.32	0.27	0.30	0.26	0.27	0.21	0.24	0.25	0.32	0.45	0.47	0.49	0.48	0.47	0.40	0.35	0.23	0.12	0.11	0.10	0.10	0.09	0.10	0.11	24	0.49	0.09	0.27
11/22/07	0.10	0.09	0.05	0.07	0.03	0.09	0.07	0.13	0.25	0.28	0.31	0.40	0.40	0.38	0.41	0.34	0.21	0.06	0.10	0.07	0.10	0.09	0.09	0.16	24	0.41	0.03	0.18
11/23/07	0.19	0.22	0.23	0.26	0.28	0.23	0.20	0.21	0.33	0.34	0.40	0.43	0.48	0.44	0.43	0.36	0.33	0.29	0.24	0.23	0.23	0.23	0.21	0.24	24	0.48	0.19	0.29
11/24/07	0.21	0.24	0.23	0.10	0.03	0.11	0.17	0.19	0.29	0.41	0.50	0.54	0.53	0.55	0.50	0.45	0.34	0.24	0.29	0.30	0.20	0.17	0.17	0.19	24	0.55	0.03	0.29
11/25/07	0.16	0.24	0.23	0.22	0.16	0.15	0.18	0.29	0.42	0.45	0.48	0.55	0.55	0.52	0.52	0.45	0.28	0.11	0.15	0.12	0.13	0.11	0.11	0.12	24	0.55	0.11	0.28
11/26/07	0.15	0.17	0.13	0.10	0.12	0.17	0.15	0.20	0.19	0.25	0.31	0.33	0.40	0.41	0.44	0.45	0.29	0.13	0.45	0.53	0.57	0.53	0.48	0.53	24	0.57	0.10	0.31
11/27/07	0.41	0.40	0.38	0.24	0.15	0.14	0.24	0.40	0.48	0.52	0.59	0.72	0.70	0.76	0.71	0.64	0.51	0.51	0.47	0.33	0.32	0.30	0.17	0.06	24	0.76	0.06	0.42
11/28/07	0.08	0.11	0.17	0.34	0.46	0.56	0.58	0.47	0.58	0.68	0.65	0.63	0.64	0.65	0.59	0.62	0.49	0.24	0.13	0.14	0.14	0.18	0.20	0.26	24	0.68	0.08	0.40
11/29/07	0.20	0.30	0.26	0.22	0.21	0.17	0.13	0.07	0.13	0.22	0.30	0.29	0.32	0.31	0.29	0.25	0.23	0.17	0.16	0.22	0.36	0.34	0.27	0.33	24	0.36	0.07	0.24
11/30/07	0.34	0.31	0.28	0.29	0.28	0.24	0.25	0.21	0.21	0.33	0.37	0.43	0.45	0.42	0.28	0.25	0.15	0.07	0.09	0.16	0.17	0.26	0.40	0.40	24	0.45	0.07	0.28
																									0			
hr max	0.59	0.62	0.63	0.61	0.63	0.67	0.65	0.65	0.73	0.71	0.69	0.72	0.70	0.76	0.71	0.64	0.52	0.51	0.50	0.53	0.57	0.62	0.54	0.59				
hr min	0.06	0.05	0.05	0.07	0.03	0.09	0.07	0.07	0.12	0.21	0.30	0.29	0.30	0.31	0.28	0.25	0.14	0.05	0.09	0.07	0.09	0.09	0.07	0.06				
average	0.25	0.27	0.27	0.26	0.24	0.24	0.25	0.27	0.33	0.40	0.44	0.48	0.49	0.49	0.46	0.42	0.33	0.22	0.23	0.25	0.25	0.25	0.25	0.25				

monthly max hr	monthly min hr	monthly ave hr
0.76	0.03	0.32
11/27/07	11/22/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
Deg
50SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
11/1/07	0.09	0.18	0.17	0.22	0.36	0.21	0.17	0.14	0.21	0.44	0.57	0.60	0.73	0.69	0.63	0.52	0.52	0.17	0.20	0.13	0.16	0.14	0.22	0.11	24	0.73	0.09	0.32
11/2/07	0.39	0.51	0.81	0.88	0.74	0.67	0.54	0.46	0.65	0.80	0.90	0.97	1.00	1.16	1.11	1.01	0.79	0.31	0.11	0.08	0.09	0.10	0.09	0.10	24	1.16	0.08	0.59
11/3/07	0.16	0.10	0.11	0.09	0.09	0.22	0.34	0.36	0.26	0.39	0.41	0.70	0.84	0.66	0.80	0.83	0.92	0.43	0.10	0.10	0.08	0.11	0.10	0.13	24	0.92	0.08	0.35
11/4/07	0.08	0.11	0.11	0.11	0.08	0.10	0.11	0.12	0.24	0.42	0.47	0.55	0.79	0.79	0.77	0.76	0.71	0.49	0.66	0.51	0.73	0.92	0.81	0.58	24	0.92	0.08	0.46
11/5/07	0.69	0.70	0.67	0.64	0.67	0.70	0.66	0.81	0.92	1.11	1.18	1.20	1.17	1.13	1.10	1.06	0.84	0.47	0.34	0.36	0.25	0.23	0.27	0.18	24	1.20	0.18	0.72
11/6/07	0.13	0.20	0.17	0.19	0.15	0.15	0.17	0.13	0.17	0.40	0.63	0.80	0.83	0.87	0.56	0.50	0.29	0.10	0.20	0.27	0.23	0.30	0.43	0.49	24	0.87	0.10	0.35
11/7/07	0.56	0.57	0.43	0.38	0.23	0.30	0.11	0.10	0.26	0.37	0.52	0.59	0.56	0.72	0.69	0.50	0.19	0.15	0.17	0.14	0.17	0.18	0.13	0.14	24	0.72	0.10	0.34
11/8/07	0.08	0.08	0.17	0.12	0.14	0.07	0.12	0.20	0.32	0.43	0.56	0.79	0.90	0.85	0.70	0.56	0.24	0.25	0.25	0.27	0.30	0.30	0.31	0.21	24	0.90	0.07	0.34
11/9/07	0.18	0.12	0.14	0.24	0.23	0.22	0.20	0.20	0.37	0.61	0.63	0.63	0.59	0.68	0.77	0.48	0.33	0.13	0.17	0.39	0.53	0.56	0.55	0.55	24	0.77	0.12	0.40
11/10/07	0.67	0.69	0.71	0.71	0.51	0.36	0.35	0.29	0.25	0.25	0.52	0.63	0.65	0.66	0.54	0.45	0.15	0.11	0.13	0.12	0.08	0.08	0.18	0.16	24	0.71	0.08	0.39
11/11/07	0.35	0.43	0.30	0.26	0.29	0.17	0.22	0.39	0.51	0.95	1.11	0.98	0.94	0.88	0.74	0.58	0.35	0.11	0.14	0.15	0.14	0.10	0.10	0.13	24	1.11	0.10	0.43
11/12/07	0.12	0.16	0.24	0.36	0.21	0.29	0.10	0.09	0.22	0.51	0.66	0.76	0.77	0.79	0.69	0.59	0.34	0.27	0.32	0.49	0.50	0.57	0.56	0.62	24	0.79	0.09	0.43
11/13/07	0.65	0.65	0.70	0.55	0.39	0.12	0.08	0.11	0.10	0.30	0.42	0.72	1.10	1.16	0.94	0.80	0.63	0.67	0.69	0.63	0.50	0.56	0.65	0.84	24	1.16	0.08	0.58
11/14/07	0.90	0.91	0.85	0.95	1.01	1.11	1.08	1.14	1.16	1.20	1.18	1.18	1.10	1.20	1.05	0.95	0.83	0.56	0.45	0.68	0.41	0.30	0.27	0.13	24	1.20	0.13	0.86
11/15/07	0.15	0.19	0.25	0.24	0.23	0.10	0.11	0.20	0.23	0.28	0.46	0.74	0.57	0.60	0.80	0.67	0.47	0.31	0.49	0.48	0.31	0.26	0.26	0.09	24	0.80	0.09	0.35
11/16/07	0.13	0.13	0.10	0.26	0.12	0.26	0.14	0.25	0.26	0.36	0.42	0.54	0.47	0.62	0.71	0.44	0.22	0.20	0.18	0.20	0.16	0.16	0.21	0.22	24	0.71	0.10	0.28
11/17/07	0.17	0.11	0.13	0.18	0.26	0.32	0.30	0.40	0.54	0.66	0.69	0.76	0.83	0.77	0.72	0.55	0.44	0.38	0.43	0.44	0.58	0.48	0.48	0.58	24	0.83	0.11	0.47
11/18/07	0.59	0.56	0.49	0.58	0.57	0.62	0.66	0.64	0.67	0.60	0.62	0.64	0.73	0.75	0.48	0.30	0.17	0.33	0.23	0.08	0.08	0.11	0.08	0.09	24	0.75	0.08	0.44
11/19/07	0.21	0.33	0.31	0.25	0.20	0.23	0.10	0.21	0.11	0.37	0.61	0.63	0.77	0.68	0.66	0.51	0.20	0.18	0.20	0.20	0.18	0.20	0.13	0.15	24	0.77	0.10	0.32
11/20/07	0.16	0.14	0.15	0.14	0.14	0.13	0.23	0.41	0.44	0.37	0.43	0.61	0.71	0.69	0.60	0.54	0.46	0.46	0.49	0.58	0.59	0.60	0.53	0.51	24	0.71	0.13	0.42
11/21/07	0.47	0.38	0.41	0.36	0.34	0.24	0.32	0.33	0.43	0.64	0.75	0.86	0.92	0.83	0.75	0.60	0.32	0.15	0.12	0.14	0.12	0.14	0.12	0.12	24	0.92	0.12	0.41
11/22/07	0.11	0.06	0.02	0.07	0.10	0.11	0.07	0.27	0.27	0.39	0.56	0.70	0.80	0.69	0.71	0.58	0.30	0.14	0.10	0.10	0.19	0.00	0.28	0.09	24	0.80	0.00	0.28
11/23/07	0.07	0.14	0.08	0.10	0.12	0.11	0.16	0.13	0.37	0.41	0.61	0.87	0.92	0.78	0.77	0.62	0.54	0.43	0.36	0.32	0.35	0.34	0.32	0.35	24	0.92	0.07	0.39
11/24/07	0.34	0.35	0.33	0.14	0.03	0.17	0.10	0.08	0.21	0.50	0.71	0.81	0.81	0.85	0.62	0.53	0.26	0.11	0.15	0.16	0.08	0.11	0.11	0.07	24	0.85	0.03	0.32
11/25/07	0.09	0.10	0.10	0.10	0.08	0.15	0.10	0.16	0.50	0.60	0.77	0.95	1.08	1.01	0.85	0.77	0.43	0.18	0.25	0.15	0.17	0.23	0.16	0.10	24	1.08	0.08	0.38
11/26/07	0.15	0.19	0.15	0.14	0.18	0.23	0.14	0.16	0.23	0.37	0.48	0.57	0.79	0.78	0.71	0.56	0.27	0.10	0.57	0.73	0.79	0.68	0.67	0.79	24	0.79	0.10	0.43
11/27/07	0.60	0.52	0.52	0.34	0.23	0.17	0.27	0.45	0.57	0.69	0.81	0.91	0.99	0.97	0.87	0.81	0.63	0.67	0.58	0.39	0.40	0.38	0.23	0.07	24	0.99	0.07	0.54
11/28/07	0.07	0.13	0.18	0.40	0.65	0.84	0.81	0.77	0.95	1.15	1.07	1.17	1.13	1.08	0.96	0.95	0.68	0.29	0.14	0.15	0.16	0.21	0.21	0.33	24	1.17	0.07	0.60
11/29/07	0.34	0.43	0.38	0.34	0.30	0.25	0.23	0.12	0.14	0.34	0.52	0.49	0.57	0.51	0.50	0.45	0.36	0.21	0.26	0.30	0.45	0.35	0.28	0.44	24	0.57	0.12	0.36
11/30/07	0.45	0.35	0.40	0.47	0.41	0.32	0.23	0.26	0.25	0.54	0.70	0.76	0.82	0.78	0.47	0.44	0.28	0.09	0.19	0.26	0.19	0.21	0.38	0.41	24	0.82	0.09	0.40
																									0			
hr max	0.90	0.91	0.85	0.95	1.01	1.11	1.08	1.14	1.16	1.20	1.18	1.20	1.17	1.20	1.11	1.06	0.92	0.67	0.69	0.73	0.79	0.92	0.81	0.84				
hr min	0.07	0.06	0.02	0.07	0.03	0.07	0.07	0.08	0.10	0.25	0.41	0.49	0.47	0.51	0.47	0.30	0.15	0.09	0.10	0.08	0.08	0.00	0.08	0.07				
average	0.31	0.32	0.32	0.33	0.30	0.30	0.27	0.31	0.39	0.55	0.67	0.77	0.83	0.82	0.74	0.63	0.44	0.28	0.29	0.30	0.30	0.30	0.30	0.29				

monthly max hr	monthly min hr	monthly ave hr
1.20	0.00	0.43
11/5/07	11/22/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
Deg
100SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	0.22	0.23	0.28	0.29	0.18	0.11	0.18	0.08	0.00	0.32	0.47	0.53	0.78	0.70	0.67	0.55	0.55	0.28	0.30	0.10	0.31	0.13	0.10	0.15	24	0.78	0.00	0.31
11/2/07	0.37	0.42	0.82	0.92	0.76	0.68	0.57	0.42	0.66	0.87	1.02	1.15	1.25	1.35	1.29	1.08	0.78	0.35	0.13	0.09	0.14	0.09	0.08	0.09	24	1.35	0.08	0.64
11/3/07	0.19	0.14	0.13	0.03	0.08	0.27	0.40	0.94	0.21	0.36	0.40	0.69	0.89	0.72	0.96	0.98	0.91	0.37	0.18	0.12	0.09	0.14	0.00	0.15	24	0.98	0.00	0.39
11/4/07	0.00	0.39	0.22	0.00	0.00	0.17	0.26	0.25	0.17	0.36	0.52	0.53	0.82	0.85	0.87	0.89	0.71	0.47	0.65	0.48	0.71	0.89	0.79	0.50	24	0.89	0.00	0.48
11/5/07	0.69	0.67	0.70	0.61	0.68	0.73	0.67	0.90	1.01	1.28	1.49	1.44	1.43	1.23	1.21	1.16	0.88	0.40	0.28	0.31	0.22	0.09	0.18	0.13	24	1.49	0.09	0.77
11/6/07	0.12	0.18	0.12	0.13	0.19	0.14	0.20	0.16	0.17	0.36	0.75	0.80	0.84	1.03	0.74	0.52	0.43	0.38	0.12	0.17	0.02	0.16	0.24	0.25	24	1.03	0.02	0.34
11/7/07	0.19	0.58	0.61	0.82	0.18	0.12	0.11	0.09	0.33	0.40	0.61	0.55	0.56	0.78	0.76	0.47	0.20	0.17	0.12	0.14	0.08	0.12	0.16	0.18	24	0.82	0.08	0.35
11/8/07	0.16	0.03	0.20	0.17	0.12	0.07	0.14	0.27	0.31	0.42	0.56	0.89	0.88	0.76	0.78	0.63	0.27	0.25	0.27	0.38	0.37	0.25	0.47	0.18	24	0.89	0.03	0.37
11/9/07	0.25	0.12	0.21	0.32	0.25	0.23	0.31	0.20	0.32	0.56	0.72	0.71	0.62	0.80	0.94	0.55	0.35	0.18	0.15	0.35	0.49	0.54	0.51	0.52	24	0.94	0.12	0.43
11/10/07	0.53	0.55	0.39	0.40	0.18	0.13	0.14	0.17	0.35	0.38	0.43	0.65	0.74	0.72	0.60	0.43	0.16	0.17	0.10	0.08	0.09	0.09	0.10	0.09	24	0.74	0.08	0.32
11/11/07	0.85	1.00	1.19	1.08	0.35	0.24	0.31	0.19	0.37	1.04	1.27	1.10	1.07	1.02	0.88	0.62	0.29	0.10	0.10	0.10	0.09	0.09	0.10	0.20	24	1.27	0.09	0.57
11/12/07	0.13	0.11	0.27	0.53	0.24	0.40	0.17	0.28	0.00	0.53	0.77	0.93	0.91	1.00	0.80	0.56	0.36	0.16	0.18	0.42	0.40	0.50	0.43	0.55	24	1.00	0.00	0.44
11/13/07	0.60	0.67	0.76	0.52	0.35	0.42	0.08	0.12	0.23	0.36	0.47	0.77	1.23	1.37	1.06	0.88	0.76	0.68	0.67	0.65	0.50	0.57	0.63	0.83	24	1.37	0.08	0.63
11/14/07	0.84	0.94	0.90	1.02	1.07	1.20	1.09	1.26	1.27	1.40	1.36	1.34	1.23	1.35	1.20	1.00	0.92	0.52	0.46	0.63	0.39	0.41	0.38	0.18	24	1.40	0.18	0.93
11/15/07	0.18	0.20	0.27	0.26	0.27	0.11	0.11	0.24	0.12	0.08	0.41	0.85	0.87	0.62	0.59	0.39	0.25	0.27	0.29	0.40	0.15	0.52	0.81	0.26	24	0.87	0.08	0.36
11/16/07	0.27	0.29	0.27	0.25	0.18	0.32	0.38	0.15	0.13	0.41	0.39	0.58	0.41	0.65	0.85	0.49	0.29	0.27	0.25	0.32	0.21	0.21	0.22	0.25	24	0.85	0.13	0.34
11/17/07	0.22	0.17	0.05	0.13	0.28	0.33	0.34	0.47	0.61	0.72	0.77	0.88	0.95	0.87	0.80	0.61	0.44	0.37	0.41	0.43	0.57	0.40	0.39	0.54	24	0.95	0.05	0.49
11/18/07	0.57	0.44	0.35	0.43	0.50	0.61	0.60	0.32	0.34	0.70	0.80	0.84	0.93	0.86	0.53	0.34	0.28	0.41	0.24	0.09	0.09	0.24	0.11	0.01	24	0.93	0.01	0.44
11/19/07	0.32	0.50	0.15	0.25	0.07	0.08	0.09	0.12	0.11	0.31	0.63	0.70	0.86	0.87	0.75	0.61	0.22	0.16	0.08	0.10	0.14	0.27	0.22	0.11	24	0.87	0.07	0.32
11/20/07	0.11	0.12	0.11	0.14	0.10	0.09	0.14	0.39	0.34	0.34	0.49	0.77	0.82	0.82	0.67	0.62	0.41	0.35	0.47	0.65	0.64	0.64	0.55	0.55	24	0.82	0.09	0.43
11/21/07	0.49	0.42	0.44	0.40	0.33	0.21	0.31	0.35	0.41	0.72	0.84	1.02	1.06	0.99	0.93	0.72	0.33	0.11	0.10	0.12	0.10	0.10	0.10	0.10	24	1.06	0.10	0.45
11/22/07	0.14	0.03	0.02	0.09	0.09	0.16	0.08	0.24	0.23	0.36	0.59	0.91	0.89	0.90	0.92	0.70	0.32	0.11	0.13	0.00	0.00	0.09	0.16	0.26	24	0.92	0.00	0.31
11/23/07	0.16	0.23	0.18	0.28	0.12	0.19	0.30	0.20	0.31	0.38	0.62	1.00	1.02	0.85	0.86	0.68	0.58	0.45	0.36	0.35	0.36	0.34	0.33	0.33	24	1.02	0.12	0.44
11/24/07	0.35	0.39	0.36	0.17	0.15	0.18	0.21	0.14	0.15	0.44	0.71	0.91	0.98	0.96	0.72	0.54	0.29	0.09	0.09	0.09	0.08	0.39	0.05	0.07	24	0.98	0.05	0.35
11/25/07	0.11	0.28	0.00	0.33	0.12	0.27	0.21	0.21	0.43	0.41	0.80	1.15	1.30	1.18	0.92	0.88	0.50	0.19	0.27	0.13	0.16	0.17	0.15	0.07	24	1.30	0.00	0.43
11/26/07	0.10	0.12	0.11	0.28	0.17	0.18	0.10	0.23	0.20	0.40	0.49	0.60	0.91	0.87	0.83	0.61	0.36	0.27	0.64	0.75	0.77	0.74	0.65	0.77	24	0.91	0.10	0.46
11/27/07	0.64	0.53	0.53	0.34	0.22	0.17	0.25	0.47	0.63	0.72	0.96	1.06	1.11	1.07	0.96	0.87	0.63	0.67	0.61	0.39	0.39	0.37	0.23	0.10	24	1.11	0.10	0.58
11/28/07	0.11	0.13	0.24	0.38	0.67	0.84	0.67	0.79	0.98	1.23	1.18	1.31	1.28	1.25	1.14	1.01	0.73	0.27	0.15	0.11	0.20	0.24	0.24	0.24	24	1.31	0.11	0.64
11/29/07	0.35	0.48	0.37	0.36	0.32	0.26	0.26	0.17	0.13	0.27	0.46	0.57	0.71	0.57	0.52	0.52	0.36	0.22	0.28	0.18	0.33	0.35	0.34	0.48	24	0.71	0.13	0.37
11/30/07	0.42	0.33	0.32	0.44	0.35	0.40	0.26	0.31	0.26	0.53	0.76	0.92	0.98	0.93	0.55	0.51	0.28	0.14	0.42	0.35	0.56	0.74	0.19	0.22	24	0.98	0.14	0.47
																									0			
hr max	0.85	1.00	1.19	1.08	1.07	1.20	1.09	1.26	1.27	1.40	1.49	1.44	1.43	1.37	1.29	1.16	0.92	0.68	0.67	0.75	0.77	0.89	0.81	0.83				
hr min	0.00	0.03	0.00	0.00	0.00	0.07	0.08	0.08	0.00	0.08	0.39	0.53	0.41	0.57	0.52	0.34	0.16	0.09	0.08	0.00	0.00	0.09	0.00	0.01				
average	0.32	0.36	0.35	0.38	0.29	0.31	0.30	0.34	0.36	0.56	0.72	0.87	0.94	0.93	0.84	0.68	0.46	0.29	0.28	0.28	0.29	0.33	0.30	0.28				

monthly	monthly	monthly
max hr	min hr	ave hr
1.49	0.00	0.46
11/5/07	11/1/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
degC
2mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	0.2	0.9	0.6	-0.2	-0.5	-0.1	-0.1	-0.3	1.2	4.1	6.9	10.2	12.7	14.4	15.4	15.5	15.5	10.3	8.0	5.7	6.6	7.4	6.3	6.0	24	15.5	-0.5	6.1
11/2/07	5.7	4.8	6.5	5.7	4.2	2.6	1.2	0.3	2.0	4.3	6.9	8.8	9.9	10.6	10.6	10.1	8.9	5.7	3.1	2.3	1.4	1.4	-0.5	-1.2	24	10.6	-1.2	4.8
11/3/07	-2.9	-3.9	-3.8	-4.2	-3.4	-2.7	-1.8	-0.2	0.3	1.6	2.4	4.7	7.7	8.3	9.9	11.5	11.0	8.2	4.1	3.5	3.7	2.8	1.4	0.7	24	11.5	-4.2	2.5
11/4/07	0.9	2.6	4.3	3.7	4.1	4.2	4.0	3.5	4.3	6.9	10.1	12.3	15.4	16.9	17.7	18.7	17.3	15.2	13.7	12.3	10.8	7.3	5.0	3.7	24	18.7	0.9	9.0
11/5/07	3.0	3.1	2.1	1.2	0.6	0.4	-0.4	-0.1	0.5	1.5	2.4	3.0	3.0	2.1	2.2	1.7	1.0	-0.8	-2.4	-3.8	-4.6	-4.3	-4.9	-5.6	24	3.1	-5.6	0.0
11/6/07	-6.7	-7.4	-7.1	-7.6	-7.7	-7.9	-8.8	-9.2	-5.9	-3.3	-1.8	-0.4	0.6	1.6	2.2	2.2	1.5	-3.4	-5.7	-3.6	-3.5	-3.1	-2.5	-2.2	24	2.2	-9.2	-3.7
11/7/07	-1.6	-1.1	-1.2	-1.7	-2.1	-2.5	-2.3	-1.9	-0.9	2.4	4.3	6.2	7.4	9.5	10.8	10.4	8.1	5.6	4.1	2.7	2.3	0.2	0.0	1.1	24	10.8	-2.5	2.5
11/8/07	1.6	1.7	0.4	-0.4	0.4	0.7	0.3	-0.3	0.5	2.0	3.7	6.9	8.5	9.3	9.9	9.6	6.6	3.0	-0.1	-1.2	-1.3	-1.1	-2.8	-2.5	24	9.9	-2.8	2.3
11/9/07	-2.3	-1.9	-1.3	-0.7	0.3	1.2	-0.2	-0.2	1.1	2.5	3.4	3.5	4.2	5.3	6.6	5.9	4.7	2.4	0.8	0.5	0.0	-0.5	-0.9	-0.3	24	6.6	-2.3	1.4
11/10/07	0.8	1.4	2.1	2.5	1.9	1.9	2.2	2.3	1.6	3.7	7.1	9.8	11.2	12.6	13.8	14.1	12.3	6.3	5.2	6.0	4.8	4.8	5.3	5.0	24	14.1	0.8	5.8
11/11/07	5.3	6.2	5.9	7.6	6.5	3.8	3.5	5.9	8.0	11.4	11.9	12.9	12.9	11.7	11.1	10.1	8.5	6.4	6.8	6.1	4.7	4.1	4.4	4.5	24	12.9	3.5	7.5
11/12/07	5.2	5.2	5.2	5.4	5.9	5.6	3.5	1.7	3.2	7.0	8.7	10.0	10.8	11.4	11.8	11.6	10.1	6.9	6.0	6.4	6.1	6.5	6.2	5.8	24	11.8	1.7	6.9
11/13/07	6.2	6.1	6.5	6.8	6.7	5.8	5.9	6.2	7.0	10.3	13.1	15.5	14.3	12.1	12.0	11.0	10.1	9.2	8.4	7.2	5.3	4.4	4.1	4.8	24	15.5	4.1	8.3
11/14/07	4.6	4.1	3.5	3.7	3.2	3.0	2.5	2.2	2.0	2.4	2.4	2.2	2.2	2.4	2.3	2.6	2.6	1.3	0.5	1.1	-0.1	-1.8	-2.7	-3.6	24	4.6	-3.6	1.8
11/15/07	-3.4	-3.2	-3.9	-5.3	-5.8	-7.3	-6.8	-6.7	-3.8	-0.1	3.1	5.3	5.2	5.8	7.0	6.8	5.4	2.9	3.0	2.7	0.9	1.0	0.6	0.5	24	7.0	-7.3	0.2
11/16/07	0.0	-1.5	-1.1	0.3	2.1	2.8	3.4	3.9	5.6	8.6	9.8	11.4	11.1	12.4	13.8	13.0	11.6	9.6	8.7	9.0	7.7	6.4	4.9	3.9	24	13.8	-1.5	6.6
11/17/07	1.1	0.5	-1.2	-2.6	-3.5	-2.4	-3.0	-2.1	-0.9	0.1	0.9	2.9	4.4	4.6	4.2	3.6	2.6	0.6	-0.7	-1.3	-1.2	-2.0	-2.3	-1.9	24	4.6	-3.5	0.0
11/18/07	-1.8	-1.8	-2.0	-1.5	-1.2	-1.3	-1.2	-1.1	-0.7	0.2	1.3	3.2	5.4	7.3	7.8	7.9	7.1	4.6	3.7	3.3	2.4	2.2	2.5	2.1	24	7.9	-2.0	2.0
11/19/07	2.4	1.7	3.1	1.4	-0.4	-1.4	-2.2	-2.2	-0.5	4.0	6.2	7.7	8.5	9.3	9.6	9.2	6.9	2.5	0.0	-1.0	-1.7	-3.4	-3.0	-2.5	24	9.6	-3.4	2.3
11/20/07	-1.5	-1.3	-0.8	-1.3	-2.8	-2.1	-1.0	-0.8	-1.5	-1.5	-0.9	0.5	1.4	1.3	0.9	0.9	0.4	-1.0	-1.4	-1.8	-2.0	-2.0	-2.1	-2.5	24	1.4	-2.8	-1.0
11/21/07	-2.5	-2.9	-3.1	-3.3	-3.3	-3.4	-3.5	-3.8	-3.7	-3.4	-3.7	-3.4	-3.0	-2.9	-3.0	-3.4	-4.7	-7.1	-8.5	-9.4	-10.7	-10.7	-11.6	-11.5	24	-2.5	-11.6	-5.3
11/22/07	-10.8	-10.5	-10.3	-10.6	-10.7	-10.7	-11.2	-11.2	-8.4	-6.7	-4.9	-3.3	-2.8	-2.4	-2.3	-2.6	-3.8	-6.5	-8.8	-10.0	-10.5	-10.3	-10.7	-9.7	24	-2.3	-11.2	-7.9
11/23/07	-8.8	-8.8	-8.6	-7.8	-7.8	-8.1	-9.1	-9.0	-6.2	-4.0	-1.5	0.2	1.3	1.9	1.4	0.5	0.2	-0.6	-1.1	-1.4	-2.0	-3.0	-3.5	-3.7	24	1.9	-9.1	-3.7
11/24/07	-4.3	-4.5	-5.0	-7.0	-8.1	-10.3	-9.4	-8.8	-7.1	-4.8	-2.0	0.8	2.3	3.7	4.3	4.4	2.9	0.2	-0.3	-1.2	-2.7	-2.9	-2.9	-3.5	24	4.4	-10.3	-2.8
11/25/07	-4.3	-3.3	-4.1	-4.6	-5.6	-5.9	-5.7	-1.6	0.9	4.1	6.1	6.8	8.6	7.8	7.3	7.0	4.5	-0.3	-0.6	-1.1	-2.8	-3.5	-4.1	-4.8	24	8.6	-5.9	0.0
11/26/07	-4.6	-4.8	-5.9	-6.8	-6.9	-8.4	-7.5	-5.4	-5.9	-3.6	-1.7	0.3	1.9	2.7	3.2	2.9	1.6	-1.2	0.8	-1.0	-7.0	-11.1	-12.4	-13.7	24	3.2	-13.7	-3.9
11/27/07	-14.5	-14.8	-14.9	-15.1	-15.3	-15.4	-15.5	-16.1	-16.5	-15.8	-14.5	-12.3	-11.0	-9.3	-9.1	-8.7	-8.3	-8.4	-8.9	-9.1	-9.0	-8.9	-9.1	-10.4	24	-8.3	-16.5	-12.1
11/28/07	-11.8	-11.6	-11.7	-10.0	-8.6	-8.4	-9.4	-10.0	-10.9	-11.1	-10.1	-9.8	-9.2	-8.1	-7.1	-6.6	-6.5	-7.8	-9.3	-9.9	-9.6	-8.0	-9.2	-8.9	24	-6.5	-11.8	-9.3
11/29/07	-8.8	-9.7	-11.3	-13.5	-13.8	-14.5	-15.2	-16.1	-14.3	-12.5	-11.2	-10.0	-9.1	-9.5	-9.6	-9.5	-10.0	-10.1	-10.9	-11.2	-11.9	-12.3	-13.0	-12.9	24	-8.8	-16.1	-11.7
11/30/07	-13.3	-14.2	-15.0	-15.3	-15.9	-16.6	-16.4	-16.5	-15.8	-13.0	-10.5	-8.9	-7.6	-6.5	-6.7	-6.0	-6.5	-10.1	-11.0	-8.9	-9.1	-8.7	-7.7	-6.5	24	-6.0	-16.6	-11.1
																									0			

hr max	6.2	6.2	6.5	7.6	6.7	5.8	5.9	6.2	8.0	11.4	13.1	15.5	15.4	16.9	17.7	18.7	17.3	15.2	13.7	12.3	10.8	7.4	6.3	6.0
hr min	-14.5	-14.8	-15.0	-15.3	-15.9	-16.6	-16.4	-16.5	-16.5	-15.8	-14.5	-12.3	-11.0	-9.5	-9.6	-9.5	-10.0	-10.1	-11.0	-11.2	-11.9	-12.3	-13.0	-13.7
average	-2.2	-2.3	-2.4	-2.7	-2.9	-3.2	-3.5	-3.3	-2.2	-0.1	1.6	3.2	4.3	4.9	5.3	5.1	4.1	1.5	0.2	-0.2	-1.1	-1.6	-2.2	-2.3

monthly	monthly	monthly
max hr	min hr	ave hr
18.7	-16.6	-0.1
11/4/07	11/30/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
degC
10mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	1.6	1.7	1.3	0.5	0.3	0.4	0.4	-0.1	1.0	3.5	6.0	9.2	11.6	13.5	14.8	15.2	15.2	11.5	9.5	8.4	8.5	8.9	8.0	7.4	24	15.2	-0.1	6.6
11/2/07	6.7	5.5	6.8	6.0	4.5	3.0	1.7	0.7	1.8	3.7	6.0	7.8	8.8	9.7	9.9	9.8	9.1	6.8	4.4	3.4	2.4	2.9	2.6	3.5	24	9.9	0.7	5.3
11/3/07	-1.1	-2.0	-0.4	-0.7	-1.9	-2.1	-1.3	-0.1	0.3	1.4	2.1	4.2	7.0	8.0	9.6	11.3	11.3	9.1	6.1	5.6	5.5	5.4	3.8	1.6	24	11.3	-2.1	3.4
11/4/07	2.0	3.0	4.5	3.9	4.3	4.5	4.1	3.9	4.2	6.2	9.3	11.5	14.7	16.2	17.3	18.5	17.6	15.8	14.4	13.0	11.2	7.4	5.1	4.0	24	18.5	2.0	9.0
11/5/07	3.3	3.3	2.5	1.6	1.0	0.8	0.0	0.2	0.3	1.0	1.6	2.1	1.9	1.4	1.6	1.4	0.9	-0.4	-1.8	-3.2	-3.7	-3.6	-4.2	-4.8	24	3.3	-4.8	0.1
11/6/07	-5.9	-6.8	-6.5	-6.9	-7.0	-7.1	-8.0	-8.6	-6.2	-4.0	-2.5	-1.2	0.1	1.1	1.8	1.9	1.7	0.1	-2.7	-2.9	-3.0	-2.9	-2.4	-2.2	24	1.9	-8.6	-3.3
11/7/07	-1.5	-1.0	-1.1	-1.4	-1.9	-2.1	-2.0	-1.9	-1.1	2.1	3.9	5.6	6.9	8.7	10.2	10.3	9.6	8.5	7.5	5.5	5.1	3.1	3.1	3.5	24	10.3	-2.1	3.3
11/8/07	3.5	3.4	1.9	0.9	1.0	0.8	0.4	-0.3	0.4	1.8	3.2	5.8	7.4	8.3	9.2	9.1	6.9	3.9	1.1	0.1	-0.2	-0.2	-0.8	-0.8	24	9.2	-0.8	2.8
11/9/07	0.2	0.7	-0.1	-0.5	0.4	1.7	0.9	1.1	1.0	2.1	2.7	2.9	3.6	4.5	5.8	5.5	4.8	2.9	1.4	0.7	0.1	-0.5	-0.8	-0.2	24	5.8	-0.8	1.7
11/10/07	0.9	1.5	2.1	2.6	2.0	2.1	2.5	2.7	2.0	3.6	6.3	8.9	10.5	12.1	13.2	13.8	12.8	10.9	8.7	7.3	6.1	6.3	6.4	5.9	24	13.8	0.9	6.3
11/11/07	6.1	6.6	6.4	8.1	6.8	5.6	4.7	6.6	8.2	11.0	11.5	12.1	12.1	11.2	10.7	9.9	8.9	7.3	7.4	7.0	6.3	5.6	5.6	6.1	24	12.1	4.7	8.0
11/12/07	6.1	6.1	6.3	5.9	6.3	5.8	4.1	2.4	3.2	6.6	8.0	9.1	9.8	10.6	11.2	11.3	10.4	7.7	6.5	6.7	6.5	6.8	6.4	6.1	24	11.3	2.4	7.1
11/13/07	6.4	6.3	6.6	7.0	7.0	6.3	6.4	6.8	7.3	10.0	12.8	15.3	14.1	11.5	11.7	11.1	10.3	9.5	8.6	7.5	5.7	4.9	4.5	5.1	24	15.3	4.5	8.4
11/14/07	5.0	4.5	3.8	4.1	3.6	3.4	2.8	2.5	2.1	2.1	2.1	1.9	1.8	2.0	2.0	2.4	2.8	1.8	1.1	1.6	0.6	-1.0	-1.8	-2.7	24	5.0	-2.7	2.0
11/15/07	-2.8	-2.7	-3.2	-4.1	-4.8	-5.7	-5.3	-5.5	-3.8	-0.6	2.2	4.3	4.7	5.3	6.4	6.6	5.7	3.6	3.3	3.0	1.5	1.4	1.4	1.4	24	6.6	-5.7	0.5
11/16/07	1.3	1.8	1.1	2.2	2.9	3.6	4.1	4.5	5.8	8.4	9.4	10.9	10.7	11.7	13.1	13.0	12.3	11.4	10.6	10.7	9.0	7.2	5.3	4.3	24	13.1	1.1	7.3
11/17/07	2.5	1.6	1.0	-0.5	-1.9	-1.8	-2.2	-1.6	-1.0	-0.2	0.5	2.1	3.4	3.7	3.8	3.4	2.6	0.8	-0.5	-1.1	-1.2	-1.8	-2.1	-1.8	24	3.8	-2.2	0.3
11/18/07	-1.6	-1.7	-2.0	-1.6	-1.3	-1.3	-1.3	-1.2	-0.8	0.0	1.0	2.5	4.4	6.4	7.4	7.8	7.5	6.0	4.6	4.0	3.4	3.4	4.5	5.1	24	7.8	-2.0	2.3
11/19/07	6.9	4.1	4.0	2.4	1.2	-0.1	-0.6	0.1	0.2	3.6	5.4	6.7	7.6	8.4	8.8	8.9	7.8	4.7	2.0	0.4	0.1	-0.5	-1.7	-1.4	24	8.9	-1.7	3.3
11/20/07	0.0	0.0	0.3	-0.3	-1.4	-1.6	-0.8	-0.7	-1.6	-1.8	-1.3	-0.3	0.6	0.8	0.6	0.7	0.4	-0.9	-1.3	-1.7	-1.9	-1.9	-2.1	-2.4	24	0.8	-2.4	-0.8
11/21/07	-2.4	-2.9	-3.1	-3.3	-3.3	-3.3	-3.4	-3.7	-3.8	-3.8	-4.4	-4.4	-4.1	-3.9	-3.7	-3.7	-4.3	-5.8	-6.9	-8.1	-9.0	-9.9	-9.8	-10.1	24	-2.4	-10.1	-5.0
11/22/07	-10.2	-10.0	-9.7	-9.8	-9.5	-9.8	-10.0	-10.6	-8.5	-7.0	-5.5	-4.3	-3.7	-3.1	-2.9	-3.1	-3.5	-4.3	-6.5	-6.6	-7.2	-8.6	-9.0	-8.9	24	-2.9	-10.6	-7.2
11/23/07	-8.4	-8.5	-8.4	-7.6	-7.6	-7.9	-8.8	-8.7	-6.3	-4.2	-2.1	-0.7	0.3	1.1	0.8	0.2	0.2	-0.5	-1.0	-1.3	-2.0	-3.0	-3.5	-3.7	24	1.1	-8.8	-3.8
11/24/07	-4.3	-4.5	-5.0	-5.7	-6.2	-9.1	-9.0	-8.5	-7.2	-5.2	-2.6	0.1	1.5	3.0	3.8	4.2	3.3	1.0	0.5	-0.6	-1.9	-2.0	-1.9	-2.7	24	4.2	-9.1	-2.5
11/25/07	-3.3	-2.8	-3.5	-4.0	-5.1	-5.1	-4.7	-1.1	0.9	4.0	6.0	6.6	7.8	7.1	6.9	6.8	5.2	2.8	1.6	0.6	-0.5	-1.1	-2.4	-3.1	24	7.8	-5.1	0.8
11/26/07	-3.4	-3.8	-4.5	-4.6	-5.8	-7.6	-6.6	-4.9	-5.8	-4.0	-2.3	-0.5	0.9	1.9	2.6	2.7	1.9	-0.1	1.4	-0.8	-6.9	-10.9	-12.3	-13.6	24	2.7	-13.6	-3.6
11/27/07	-14.4	-14.9	-15.1	-15.3	-15.4	-15.4	-15.6	-16.2	-16.8	-16.3	-15.2	-13.3	-11.8	-10.1	-9.6	-9.0	-8.4	-8.5	-8.9	-9.1	-9.1	-8.9	-8.9	-9.2	24	-8.4	-16.8	-12.3
11/28/07	-9.6	-10.3	-11.1	-9.6	-8.3	-8.2	-9.3	-10.1	-11.0	-11.5	-10.8	-10.7	-10.2	-9.1	-7.8	-6.9	-6.4	-7.2	-8.1	-8.5	-8.3	-7.2	-8.4	-8.4	24	-6.4	-11.5	-9.0
11/29/07	-8.2	-9.5	-11.1	-12.9	-13.5	-14.0	-14.2	-14.6	-14.2	-12.9	-11.7	-10.6	-9.8	-10.1	-10.2	-9.9	-10.1	-10.0	-10.4	-10.6	-11.4	-11.8	-12.5	-12.5	24	-8.2	-14.6	-11.5
11/30/07	-13.0	-13.9	-14.6	-14.9	-15.4	-16.2	-16.0	-16.0	-15.6	-13.3	-11.2	-9.6	-8.4	-7.2	-7.0	-6.4	-6.2	-7.1	-8.4	-8.4	-8.7	-8.4	-7.6	-6.5	24	-6.2	-16.2	-10.8
																									0			

hr max	6.9	6.6	6.8	8.1	7.0	6.3	6.4	6.8	8.2	11.0	12.8	15.3	14.7	16.2	17.3	18.5	17.6	15.8	14.4	13.0	11.2	8.9	8.0	7.4
hr min	-14.4	-14.9	-15.1	-15.3	-15.4	-16.2	-16.0	-16.2	-16.8	-16.3	-15.2	-13.3	-11.8	-10.1	-10.2	-9.9	-10.1	-10.0	-10.4	-10.6	-11.4	-11.8	-12.5	-13.6
average	-1.3	-1.5	-1.7	-2.0	-2.3	-2.7	-2.9	-2.8	-2.2	-0.5	1.0	2.5	3.5	4.2	4.7	4.9	4.3	2.7	1.5	0.8	-0.1	-0.7	-1.2	-1.4

monthly max hr	monthly min hr	monthly ave hr
18.5	-16.8	0.3
11/4/07	11/27/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
degC
50mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	6.5	5.3	4.4	3.5	3.4	2.9	2.2	2.3	2.0	2.9	5.2	8.3	10.8	12.6	14.1	14.6	14.6	14.0	14.0	13.0	13.1	11.2	11.2	10.8	24	14.6	2.0	8.5
11/2/07	8.0	6.7	6.7	5.8	4.3	2.9	1.8	0.8	1.4	3.1	5.3	7.0	8.0	8.9	9.2	9.3	8.8	7.7	7.1	6.5	6.1	5.9	5.4	5.5	24	9.3	0.8	5.9
11/3/07	4.2	4.1	4.7	4.8	4.4	4.3	3.4	1.3	0.7	1.0	1.6	3.6	6.3	7.5	9.2	10.8	11.2	9.8	9.8	9.5	9.4	9.8	9.5	8.0	24	11.2	0.7	6.2
11/4/07	7.2	6.7	7.6	7.0	7.9	8.5	7.1	5.9	5.4	5.6	8.7	10.8	13.9	15.5	16.7	18.0	17.5	16.3	14.9	13.6	11.3	7.1	4.8	3.8	24	18.0	3.8	10.1
11/5/07	3.1	3.1	2.5	1.7	1.0	0.9	0.1	0.1	-0.1	0.4	0.8	1.2	1.0	0.6	0.8	0.7	0.5	-0.3	-1.4	-2.5	-2.5	-2.5	-3.2	-3.2	24	3.1	-3.2	0.1
11/6/07	-3.6	-4.4	-4.5	-4.9	-4.9	-5.0	-5.5	-5.5	-5.3	-4.6	-3.2	-1.9	-0.6	0.5	1.2	1.4	1.4	1.1	0.6	0.2	-1.6	-2.0	-2.2	-2.3	24	1.4	-5.5	-2.3
11/7/07	-1.6	-1.1	-1.0	-0.9	-1.0	-0.6	-0.5	-0.5	-1.0	1.9	3.4	5.0	6.4	8.1	9.6	10.0	10.4	10.7	10.5	9.5	8.1	5.5	4.3	4.6	24	10.7	-1.6	4.2
11/8/07	4.9	4.9	3.8	2.8	2.0	1.3	0.4	-0.4	0.1	1.3	2.6	5.0	6.5	7.5	8.5	8.6	6.9	4.3	1.7	0.9	0.6	0.4	0.6	2.9	24	8.6	-0.4	3.3
11/9/07	4.8	5.1	5.1	3.1	3.7	4.3	3.9	2.7	1.4	1.5	1.9	2.2	2.9	3.8	5.1	5.0	4.5	3.5	2.2	0.7	-0.2	-0.7	-1.0	-0.4	24	5.1	-1.0	2.7
11/10/07	0.7	1.4	2.0	2.4	1.9	2.5	3.1	3.0	2.9	3.5	5.6	8.3	9.8	11.4	12.5	13.2	12.9	12.4	12.1	11.4	11.4	11.7	11.1	11.0	24	13.2	0.7	7.4
11/11/07	10.7	11.3	10.9	12.0	8.9	8.3	6.6	8.1	8.7	10.5	10.9	11.2	11.3	10.5	10.1	9.5	8.8	8.9	8.6	8.3	8.1	8.0	8.0	8.0	24	12.0	6.6	9.4
11/12/07	8.2	8.1	7.6	6.8	7.6	6.1	5.6	5.2	4.7	6.1	7.3	8.3	9.0	9.7	10.4	10.7	10.5	9.4	7.7	7.3	7.0	7.0	6.6	6.3	24	10.7	4.7	7.6
11/13/07	6.4	6.4	6.7	7.0	7.4	8.3	10.1	11.1	11.2	10.4	12.6	14.9	13.6	10.7	11.1	10.7	10.2	9.4	8.5	7.4	6.0	5.1	4.7	5.2	24	14.9	4.7	9.0
11/14/07	5.0	4.5	3.9	4.1	3.6	3.3	2.7	2.3	1.7	1.6	1.5	1.3	1.2	1.4	1.4	1.9	2.5	1.9	1.6	1.7	1.2	0.5	0.2	-0.1	24	5.0	-0.1	2.1
11/15/07	-0.7	-1.1	-1.9	-2.2	-2.0	-1.0	-0.6	-0.7	-1.1	-0.1	1.6	3.5	4.0	4.7	5.7	6.0	5.8	4.5	3.6	3.2	2.0	2.5	3.6	4.9	24	6.0	-2.2	1.8
11/16/07	6.4	5.4	5.8	5.1	6.6	8.3	7.4	7.4	7.8	8.8	9.1	10.4	10.1	11.1	12.5	12.6	12.3	11.9	11.6	11.9	11.3	8.6	5.4	4.4	24	12.6	4.4	8.8
11/17/07	2.9	2.3	1.8	0.5	-0.7	-1.2	-1.5	-1.4	-1.4	-0.8	-0.2	1.3	2.5	2.8	3.2	2.9	2.1	0.7	-0.6	-1.1	-1.4	-1.8	-2.1	-1.8	24	3.2	-2.1	0.3
11/18/07	-1.8	-2.0	-2.3	-2.0	-1.7	-1.7	-1.7	-1.6	-1.2	-0.5	0.4	1.7	3.6	5.6	6.8	7.3	8.0	8.1	8.1	8.2	8.3	8.6	8.6	8.7	24	8.7	-2.3	3.1
11/19/07	11.4	8.3	5.6	4.1	3.8	3.4	2.7	2.9	3.3	3.7	4.7	5.9	6.8	7.7	8.2	8.4	8.2	7.1	5.1	2.9	2.0	1.6	2.1	1.7	24	11.4	1.6	5.1
11/20/07	1.9	2.0	1.6	0.9	0.0	0.0	-0.5	-0.9	-2.0	-2.3	-1.9	-1.0	-0.2	0.2	0.0	0.1	0.2	-1.0	-1.6	-2.1	-2.3	-2.3	-2.4	-2.7	24	2.0	-2.7	-0.7
11/21/07	-2.8	-3.2	-3.4	-3.6	-3.6	-3.7	-3.8	-4.0	-4.2	-4.4	-5.2	-5.2	-4.9	-4.8	-4.4	-4.3	-4.5	-5.0	-5.9	-7.2	-8.1	-8.8	-9.1	-9.3	24	-2.8	-9.3	-5.1
11/22/07	-9.7	-9.6	-9.3	-9.2	-8.8	-8.8	-8.7	-8.9	-8.4	-7.5	-6.1	-5.0	-4.4	-3.8	-3.6	-3.7	-3.8	-4.0	-4.1	-4.0	-4.0	-4.2	-4.3	-4.3	24	-3.6	-9.7	-6.2
11/23/07	-4.0	-6.7	-5.0	-4.8	-6.0	-6.7	-6.9	-6.7	-6.3	-4.7	-2.7	-1.5	-0.4	0.4	0.2	-0.3	-0.2	-0.9	-1.3	-1.7	-2.3	-3.4	-4.0	-4.2	24	0.4	-6.9	-3.3
11/24/07	-4.8	-5.0	-5.4	-5.9	-5.8	-6.6	-6.0	-5.6	-6.0	-5.6	-3.3	-0.7	0.7	2.2	3.1	3.7	3.5	3.4	3.5	3.0	2.3	1.6	1.4	1.7	24	3.7	-6.6	-1.3
11/25/07	0.8	1.0	-0.5	-1.0	-0.9	0.3	1.6	2.5	1.6	4.0	5.7	6.1	7.0	6.3	6.3	6.3	5.5	4.6	3.6	2.8	1.7	1.1	0.3	-0.2	24	7.0	-1.0	2.8
11/26/07	-1.0	-2.2	-2.7	-2.0	-1.7	-3.8	-2.9	-3.1	-4.5	-4.3	-2.9	-1.2	0.2	1.2	1.9	2.2	2.5	2.4	2.5	-1.0	-7.3	-11.3	-12.7	-14.0	24	2.5	-14.0	-2.7
11/27/07	-14.8	-15.4	-15.7	-15.8	-15.9	-15.8	-16.1	-16.7	-17.4	-17.0	-16.0	-14.3	-12.7	-11.1	-10.4	-9.6	-8.8	-8.9	-9.4	-9.5	-9.5	-9.3	-9.3	-9.4	24	-8.8	-17.4	-12.9
11/28/07	-9.6	-9.4	-9.0	-8.8	-8.2	-8.4	-9.6	-10.6	-11.4	-12.2	-11.6	-11.6	-11.1	-9.9	-8.6	-7.5	-6.7	-6.6	-6.4	-5.8	-5.9	-5.4	-7.0	-8.0	24	-5.4	-12.2	-8.7
11/29/07	-8.1	-9.8	-11.4	-13.1	-13.7	-13.8	-14.1	-14.3	-14.2	-13.4	-12.3	-11.1	-10.4	-10.8	-10.8	-10.5	-10.5	-10.3	-10.2	-10.2	-10.9	-11.4	-11.6	-12.3	24	-8.1	-14.3	-11.6
11/30/07	-13.0	-13.8	-14.6	-14.9	-15.4	-15.7	-15.2	-15.2	-14.8	-13.8	-11.8	-10.3	-9.1	-7.9	-7.5	-6.9	-6.5	-6.6	-6.5	-6.5	-7.1	-7.2	-7.5	-6.8	24	-6.5	-15.7	-10.6
																									0			

hr max	11.4	11.3	10.9	12.0	8.9	8.5	10.1	11.1	11.2	10.5	12.6	14.9	13.9	15.5	16.7	18.0	17.5	16.3	14.9	13.6	13.1	11.7	11.2	11.0
hr min	-14.8	-15.4	-15.7	-15.8	-15.9	-15.8	-16.1	-16.7	-17.4	-17.0	-16.0	-14.3	-12.7	-11.1	-10.8	-10.5	-10.5	-10.3	-10.2	-10.2	-10.9	-11.4	-12.7	-14.0
average	0.6	0.1	-0.2	-0.6	-0.8	-0.9	-1.2	-1.4	-1.5	-0.8	0.4	1.7	2.7	3.4	4.1	4.4	4.3	3.6	3.0	2.3	1.6	0.9	0.4	0.3

monthly	monthly	monthly
max hr	min hr	ave hr
18.0	-17.4	1.1
11/4/07	11/27/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
degC
100mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	9.3	9.2	8.1	5.8	5.3	5.1	4.7	4.3	4.2	3.9	4.8	7.9	10.2	12.1	13.5	14.0	14.0	13.9	14.5	14.9	13.8	11.9	11.8	11.4	24	14.9	3.9	9.5
11/2/07	8.4	7.3	6.4	5.4	4.0	2.7	1.7	0.9	1.1	2.6	4.7	6.4	7.4	8.3	8.6	8.7	8.4	7.7	7.3	6.8	6.6	6.4	6.4	6.2	24	8.7	0.9	5.9
11/3/07	5.0	4.4	5.0	4.9	4.9	4.8	5.4	4.3	2.1	1.4	1.6	3.2	5.8	7.0	8.7	10.3	10.8	10.0	9.9	9.5	9.7	9.9	10.0	9.3	24	10.8	1.4	6.6
11/4/07	9.8	9.5	9.4	8.3	10.0	11.0	8.7	7.9	7.6	7.0	9.3	10.4	13.4	15.0	16.2	17.4	17.2	16.2	15.0	13.8	11.2	6.7	4.4	3.6	24	17.4	3.6	10.8
11/5/07	2.8	2.8	2.3	1.6	1.0	0.8	0.1	-0.2	-0.5	-0.2	0.2	0.5	0.4	0.0	0.2	0.2	0.0	-0.5	-1.3	-2.1	-2.0	-1.8	-2.3	-2.6	24	2.8	-2.6	0.0
11/6/07	-2.9	-3.3	-3.5	-3.8	-4.1	-4.5	-4.9	-5.2	-5.0	-4.9	-3.7	-2.4	-1.2	0.0	0.7	0.9	1.0	0.8	0.5	0.4	0.4	0.5	-0.4	-1.9	24	1.0	-5.2	-1.9
11/7/07	-0.8	-0.7	-0.7	0.1	-0.1	0.4	1.6	1.6	1.6	2.8	3.1	4.5	5.9	7.6	9.1	9.6	10.3	10.4	10.4	9.3	8.4	6.5	5.5	5.6	24	10.4	-0.8	4.7
11/8/07	6.0	5.8	3.9	2.7	2.6	3.1	3.2	1.7	1.1	1.1	2.2	4.5	6.0	7.0	8.0	8.1	6.5	4.0	1.9	1.7	1.6	1.8	2.8	5.3	24	8.1	1.1	3.9
11/9/07	6.1	7.0	7.5	7.3	6.4	6.3	5.3	2.7	1.7	1.0	1.4	1.7	2.4	3.3	4.5	4.4	4.0	3.2	2.2	0.6	-0.5	-1.0	-1.1	-0.5	24	7.5	-1.1	3.2
11/10/07	0.9	1.5	2.3	2.5	2.3	4.2	4.4	3.9	3.9	4.1	5.1	7.8	9.3	10.9	12.0	12.7	12.5	12.2	12.1	11.6	12.2	12.8	12.7	13.2	24	13.2	0.9	7.8
11/11/07	14.0	13.6	14.5	15.4	10.7	9.6	8.3	10.4	9.6	10.1	10.4	10.7	10.7	10.0	9.6	9.0	8.6	9.1	9.1	8.9	8.6	8.7	8.5	8.3	24	15.4	8.3	10.3
11/12/07	8.4	8.4	8.2	7.2	7.5	6.1	5.6	5.6	5.2	5.8	6.8	7.8	8.4	9.1	9.8	10.2	10.2	10.1	9.9	8.8	8.1	7.7	7.1	6.9	24	10.2	5.2	7.9
11/13/07	6.7	6.9	7.4	7.8	8.4	10.0	11.5	12.0	12.4	12.5	13.4	14.7	13.1	10.2	10.6	10.3	9.9	9.2	8.3	7.2	6.2	5.4	5.0	5.4	24	14.7	5.0	9.4
11/14/07	5.0	4.4	3.9	3.9	3.4	3.0	2.4	1.9	1.3	1.1	1.0	0.7	0.7	0.8	0.9	1.4	2.1	1.9	1.7	1.6	1.2	0.7	0.2	0.1	24	5.0	0.1	1.9
11/15/07	-0.3	-0.4	-0.8	-0.7	-0.6	0.6	1.4	1.6	1.1	1.9	1.7	2.9	3.5	4.1	5.1	5.5	5.5	4.9	4.2	3.4	3.2	4.4	5.3	8.0	24	8.0	-0.8	2.7
11/16/07	9.6	8.3	8.6	9.9	11.5	12.5	11.2	11.4	12.0	12.7	10.4	10.0	9.8	10.6	11.9	12.2	11.9	11.6	11.6	12.0	11.5	8.9	6.1	4.1	24	12.7	4.1	10.4
11/17/07	3.2	3.4	3.5	2.7	1.2	-1.0	-1.4	-1.4	-1.7	-1.3	-0.7	0.7	1.9	2.3	2.7	2.4	1.6	0.4	-0.9	-1.4	-1.8	-2.0	-2.0	-2.0	24	3.5	-2.0	0.4
11/18/07	-2.0	-2.2	-2.4	-2.2	-2.0	-2.1	-2.1	-1.9	-1.6	-1.0	-0.1	1.2	3.0	5.0	6.3	6.9	8.0	8.9	8.9	9.1	10.5	11.4	10.9	11.7	24	11.7	-2.4	3.4
11/19/07	13.0	9.8	6.9	6.0	6.4	5.6	5.1	5.0	4.8	4.1	4.3	5.4	6.3	7.2	7.7	7.8	7.8	7.0	6.1	5.1	4.4	3.5	3.7	4.0	24	13.0	3.5	6.1
11/20/07	3.4	2.2	1.5	0.7	0.5	0.0	-0.4	-1.1	-2.4	-2.7	-2.4	-1.5	-0.7	-0.4	-0.5	-0.4	-0.2	-1.4	-2.0	-2.5	-2.7	-2.7	-2.9	-3.1	24	3.4	-3.1	-0.9
11/21/07	-3.2	-3.7	-3.9	-4.0	-4.0	-4.0	-4.2	-4.5	-4.7	-4.9	-5.7	-5.7	-5.5	-5.3	-4.9	-4.8	-4.9	-5.4	-6.2	-7.3	-8.0	-8.6	-8.7	-9.0	24	-3.2	-9.0	-5.5
11/22/07	-9.3	-9.3	-9.2	-9.0	-8.6	-8.5	-8.6	-8.4	-7.6	-7.5	-6.6	-5.5	-4.9	-4.3	-4.1	-4.2	-4.2	-4.3	-4.3	-4.2	-4.2	-4.1	-3.7	-3.4	24	-3.4	-9.3	-6.2
11/23/07	-3.3	-3.9	-3.6	-4.0	-5.4	-5.9	-5.6	-5.6	-5.4	-4.6	-3.3	-2.0	-1.0	-0.2	-0.3	-0.8	-0.7	-1.3	-1.7	-2.1	-2.8	-3.9	-4.4	-4.6	24	-0.2	-5.9	-3.2
11/24/07	-5.3	-5.4	-5.9	-6.0	-5.8	-6.0	-5.7	-5.0	-4.6	-5.3	-3.9	-1.2	0.1	1.7	2.5	3.2	3.3	3.4	3.9	4.3	5.1	4.7	5.5	6.8	24	6.8	-6.0	-0.7
11/25/07	5.6	5.1	3.3	2.4	2.6	3.3	5.1	3.9	3.8	5.0	5.3	5.6	6.5	5.8	5.7	5.8	5.3	4.7	3.9	3.5	2.6	1.7	0.6	0.2	24	6.5	0.2	4.1
11/26/07	-0.9	-2.1	-1.6	-0.2	0.3	-1.4	-2.0	-2.6	-3.9	-4.3	-3.4	-1.7	-0.3	0.7	1.4	1.7	2.2	2.8	2.9	-1.2	-7.7	-11.7	-13.1	-14.5	24	2.9	-14.5	-2.5
11/27/07	-15.3	-15.9	-16.1	-16.2	-16.3	-16.3	-16.5	-17.2	-17.9	-17.5	-16.5	-14.8	-13.3	-11.7	-11.0	-10.1	-9.3	-9.3	-9.8	-9.9	-9.9	-9.8	-9.7	-9.8	24	-9.3	-17.9	-13.3
11/28/07	-9.7	-9.2	-8.6	-8.1	-8.2	-8.7	-9.9	-11.1	-11.9	-12.7	-12.2	-12.3	-11.7	-10.6	-9.2	-8.0	-7.0	-6.5	-6.1	-5.0	-5.3	-4.7	-6.9	-7.9	24	-4.7	-12.7	-8.8
11/29/07	-8.3	-10.2	-11.7	-13.4	-13.8	-14.1	-14.4	-14.3	-14.1	-13.6	-12.8	-11.6	-10.9	-11.3	-11.3	-11.0	-11.0	-10.6	-10.2	-10.0	-10.8	-11.4	-11.6	-12.4	24	-8.3	-14.4	-11.9
11/30/07	-13.2	-14.1	-14.7	-15.0	-15.2	-15.6	-15.0	-14.8	-14.1	-14.1	-12.4	-10.8	-9.6	-8.4	-8.0	-7.4	-7.0	-6.9	-6.5	-6.2	-6.3	-6.1	-6.4	-6.4	24	-6.1	-15.6	-10.6
																									0			
hr max	14.0	13.6	14.5	15.4	11.5	12.5	11.5	12.0	12.4	12.7	13.4	14.7	13.4	15.0	16.2	17.4	17.2	16.2	15.0	14.9	13.8	12.8	12.7	13.2				
hr min	-15.3	-15.9	-16.1	-16.2	-16.3	-16.3	-16.5	-17.2	-17.9	-17.5	-16.5	-14.8	-13.3	-11.7	-11.3	-11.0	-11.0	-10.6	-10.2	-10.0	-10.8	-11.7	-13.1	-14.5				
average	1.4	1.0	0.7	0.4	0.2	0.0	-0.2	-0.5	-0.7	-0.6	0.1	1.2	2.2	2.9	3.5	3.9	3.9	3.5	3.2	2.7	2.1	1.5	1.1	1.1				

monthly	monthly	monthly
max hr	min hr	ave hr
17.4	-17.9	1.4
11/4/07	11/27/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
degC
10-2

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	1.44	0.83	0.69	0.70	0.78	0.51	0.46	0.26	-0.21	-0.61	-0.88	-1.06	-1.07	-0.87	-0.59	-0.30	-0.30	1.18	1.53	2.66	1.90	1.49	1.77	1.34	24	2.66	-1.07	0.49
11/2/07	0.97	0.73	0.24	0.26	0.27	0.36	0.45	0.38	-0.18	-0.63	-0.93	-1.00	-1.08	-0.92	-0.63	-0.27	0.20	1.06	1.36	1.08	1.01	1.48	3.04	4.71	24	4.71	-1.08	0.50
11/3/07	1.79	1.89	3.36	3.45	1.46	0.52	0.49	0.11	-0.09	-0.25	-0.26	-0.52	-0.70	-0.27	-0.26	-0.19	0.31	0.89	1.97	2.03	1.85	2.63	2.40	0.88	24	3.45	-0.70	0.98
11/4/07	1.08	0.37	0.22	0.17	0.25	0.28	0.16	0.33	-0.11	-0.70	-0.77	-0.82	-0.76	-0.71	-0.37	-0.24	0.29	0.68	0.72	0.72	0.41	0.10	0.11	0.23	24	1.08	-0.82	0.07
11/5/07	0.24	0.22	0.37	0.38	0.40	0.43	0.41	0.30	-0.14	-0.52	-0.75	-0.97	-1.02	-0.70	-0.61	-0.34	-0.01	0.44	0.58	0.66	0.92	0.65	0.75	0.85	24	0.92	-1.02	0.11
11/6/07	0.74	0.64	0.62	0.72	0.70	0.77	0.83	0.55	-0.27	-0.65	-0.71	-0.73	-0.54	-0.52	-0.42	-0.30	0.18	3.51	2.98	0.67	0.49	0.26	0.09	0.03	24	3.51	-0.73	0.40
11/7/07	0.06	0.08	0.18	0.27	0.26	0.39	0.24	0.03	-0.16	-0.31	-0.38	-0.63	-0.46	-0.82	-0.55	-0.02	1.51	2.94	3.35	2.82	2.80	2.89	3.17	2.39	24	3.35	-0.82	0.84
11/8/07	1.91	1.72	1.53	1.24	0.60	0.09	0.12	0.05	-0.11	-0.24	-0.46	-1.04	-1.09	-0.97	-0.67	-0.45	0.26	0.94	1.22	1.29	1.16	0.85	2.00	1.70	24	2.00	-1.09	0.49
11/9/07	2.51	2.54	1.18	0.23	0.11	0.43	1.05	1.24	-0.11	-0.41	-0.67	-0.63	-0.63	-0.77	-0.78	-0.37	0.06	0.55	0.62	0.20	0.05	0.06	0.10	0.08	24	2.54	-0.78	0.28
11/10/07	0.09	0.10	0.04	0.03	0.10	0.18	0.28	0.36	0.47	-0.16	-0.78	-0.87	-0.72	-0.55	-0.59	-0.38	0.52	4.63	3.46	1.27	1.27	1.57	1.08	0.86	24	4.63	-0.87	0.51
11/11/07	0.78	0.44	0.47	0.46	0.34	1.79	1.23	0.67	0.20	-0.37	-0.41	-0.80	-0.81	-0.54	-0.38	-0.16	0.38	0.90	0.62	0.86	1.65	1.57	1.12	1.60	24	1.79	-0.81	0.48
11/12/07	0.93	0.87	1.03	0.54	0.47	0.20	0.60	0.67	0.07	-0.42	-0.69	-0.87	-0.95	-0.84	-0.61	-0.28	0.29	0.87	0.52	0.37	0.35	0.27	0.25	0.24	24	1.03	-0.95	0.16
11/13/07	0.20	0.17	0.15	0.14	0.30	0.55	0.50	0.58	0.22	-0.32	-0.29	-0.19	-0.26	-0.63	-0.32	0.06	0.25	0.28	0.26	0.32	0.48	0.46	0.41	0.31	24	0.58	-0.63	0.15
11/14/07	0.32	0.35	0.34	0.40	0.38	0.34	0.33	0.26	0.02	-0.26	-0.29	-0.34	-0.35	-0.39	-0.31	-0.22	0.18	0.51	0.57	0.46	0.69	0.87	0.90	0.91	24	0.91	-0.39	0.24
11/15/07	0.56	0.53	0.71	1.13	1.04	1.62	1.49	1.25	-0.01	-0.44	-0.87	-1.00	-0.48	-0.50	-0.58	-0.19	0.29	0.77	0.27	0.33	0.54	0.47	0.74	0.87	24	1.62	-1.00	0.36
11/16/07	1.29	3.26	2.16	1.96	0.73	0.75	0.68	0.57	0.19	-0.18	-0.42	-0.48	-0.40	-0.72	-0.66	0.02	0.70	1.82	1.94	1.61	1.30	0.83	0.33	0.42	24	3.26	-0.72	0.74
11/17/07	1.42	1.16	2.22	2.14	1.67	0.60	0.84	0.41	-0.11	-0.25	-0.36	-0.79	-0.98	-0.92	-0.41	-0.21	-0.09	0.20	0.19	0.21	0.06	0.19	0.19	0.18	24	2.22	-0.98	0.32
11/18/07	0.13	0.09	0.01	-0.05	-0.06	-0.04	-0.07	-0.06	-0.11	-0.22	-0.30	-0.70	-0.99	-0.88	-0.32	-0.15	0.35	1.40	0.93	0.77	1.04	1.24	2.00	3.01	24	3.01	-0.99	0.29
11/19/07	4.44	2.42	0.96	1.05	1.54	1.28	1.62	2.37	0.74	-0.37	-0.78	-1.00	-0.95	-0.87	-0.72	-0.29	0.85	2.19	2.04	1.43	1.80	2.89	1.25	1.13	24	4.44	-1.00	1.04
11/20/07	1.45	1.32	1.03	0.93	1.41	0.57	0.13	0.07	-0.10	-0.24	-0.39	-0.76	-0.80	-0.49	-0.27	-0.24	0.07	0.16	0.08	0.05	0.05	0.05	0.05	0.07	24	1.45	-0.80	0.18
11/21/07	0.05	0.05	0.04	0.07	0.06	0.07	0.05	0.05	-0.05	-0.40	-0.74	-0.97	-1.03	-0.96	-0.66	-0.29	0.34	1.29	1.60	1.34	1.73	0.77	1.79	1.36	24	1.79	-1.03	0.23
11/22/07	0.58	0.51	0.61	0.80	1.21	0.85	1.20	0.57	-0.18	-0.31	-0.64	-0.99	-0.89	-0.68	-0.61	-0.46	0.25	2.21	2.34	3.39	3.32	1.75	1.65	0.78	24	3.39	-0.99	0.72
11/23/07	0.41	0.26	0.23	0.19	0.15	0.26	0.32	0.26	-0.11	-0.28	-0.64	-0.95	-0.99	-0.83	-0.54	-0.25	0.01	0.06	0.08	0.06	0.03	-0.02	-0.02	-0.04	24	0.41	-0.99	-0.10
11/24/07	-0.07	-0.02	0.02	1.27	1.95	1.15	0.40	0.28	-0.07	-0.41	-0.66	-0.76	-0.77	-0.70	-0.49	-0.18	0.38	0.85	0.74	0.64	0.82	0.97	1.08	0.86	24	1.95	-0.77	0.30
11/25/07	1.00	0.59	0.53	0.58	0.53	0.82	1.05	0.48	0.05	-0.06	-0.05	-0.27	-0.80	-0.75	-0.43	-0.21	0.78	3.02	2.22	1.76	2.36	2.35	1.71	1.68	24	3.02	-0.80	0.79
11/26/07	1.23	0.98	1.43	2.23	1.12	0.78	0.89	0.53	0.11	-0.42	-0.63	-0.80	-0.95	-0.79	-0.57	-0.24	0.32	1.07	0.53	0.19	0.06	0.14	0.12	0.08	24	2.23	-0.95	0.31
11/27/07	0.05	-0.11	-0.18	-0.14	-0.09	0.00	-0.09	-0.09	-0.29	-0.49	-0.67	-0.98	-0.82	-0.87	-0.52	-0.28	-0.04	-0.02	-0.06	0.01	-0.02	-0.04	0.14	1.19	24	1.19	-0.98	-0.18
11/28/07	2.15	1.32	0.68	0.36	0.26	0.22	0.15	-0.08	-0.04	-0.42	-0.70	-0.94	-1.02	-0.92	-0.67	-0.30	0.15	0.62	1.23	1.35	1.25	0.87	0.77	0.53	24	2.15	-1.02	0.28
11/29/07	0.60	0.22	0.20	0.53	0.30	0.45	1.08	1.48	0.08	-0.39	-0.59	-0.53	-0.66	-0.61	-0.63	-0.42	-0.10	0.06	0.44	0.56	0.58	0.44	0.49	0.40	24	1.48	-0.66	0.17
11/30/07	0.36	0.36	0.45	0.42	0.44	0.37	0.37	0.49	0.25	-0.37	-0.66	-0.73	-0.80	-0.72	-0.27	-0.36	0.28	3.03	2.65	0.49	0.35	0.31	0.05	-0.04	24	3.03	-0.80	0.28
																									0			
hr max	4.44	3.26	3.36	3.45	1.95	1.79	1.62	2.37	0.74	-0.06	-0.05	-0.19	-0.26	-0.27	-0.26	0.06	1.51	4.63	3.46	3.39	3.32	2.89	3.17	4.71				
hr min	-0.07	-0.11	-0.18	-0.14	-0.09	-0.04	-0.09	-0.09	-0.29	-0.70	-0.93	-1.06	-1.09	-0.97	-0.78	-0.46	-0.30	-0.02	-0.06	0.01	-0.02	-0.04	-0.02	-0.04				
average	0.96	0.80	0.72	0.75	0.62	0.55	0.58	0.48	0.00	-0.37	-0.58	-0.77	-0.79	-0.72	-0.51	-0.25	0.29	1.27	1.23	0.99	1.01	0.95	0.98	0.95				

monthly max hr	monthly min hr	monthly ave hr
4.71	-1.09	0.38
11/2/07	11/8/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
degC
50-10

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	4.85	3.56	3.11	3.02	3.06	2.47	1.83	2.37	1.01	-0.57	-0.78	-0.84	-0.87	-0.89	-0.78	-0.61	-0.61	2.46	4.49	4.67	4.55	2.33	3.15	3.48	24	4.85	-0.89	1.85
11/2/07	1.36	1.16	-0.11	-0.17	-0.16	-0.03	0.11	0.15	-0.35	-0.61	-0.69	-0.76	-0.81	-0.83	-0.75	-0.59	-0.29	0.91	2.66	3.12	3.76	2.99	2.87	1.97	24	3.76	-0.83	0.62
11/3/07	5.23	6.06	5.18	5.53	6.35	6.41	4.73	1.35	0.48	-0.36	-0.46	-0.58	-0.71	-0.51	-0.49	-0.47	-0.14	0.73	3.73	3.90	3.88	4.41	5.70	6.46	24	6.46	-0.71	2.77
11/4/07	5.15	3.73	3.05	3.14	3.60	4.02	2.95	2.05	1.22	-0.54	-0.59	-0.72	-0.76	-0.69	-0.56	-0.49	-0.07	0.41	0.48	0.57	0.16	-0.29	-0.29	-0.15	24	5.15	-0.76	1.06
11/5/07	-0.17	-0.20	-0.02	0.04	0.08	0.05	0.11	-0.10	-0.43	-0.65	-0.83	-0.89	-0.93	-0.83	-0.79	-0.63	-0.44	0.03	0.40	0.61	1.19	1.18	0.95	1.58	24	1.58	-0.93	-0.03
11/6/07	2.34	2.36	1.96	2.01	2.03	2.10	2.45	3.17	0.89	-0.61	-0.68	-0.71	-0.70	-0.58	-0.57	-0.53	-0.27	1.02	3.32	3.08	1.42	0.89	0.19	-0.16	24	3.32	-0.71	1.02
11/7/07	-0.05	-0.08	0.03	0.51	0.84	1.47	1.51	1.32	0.11	-0.24	-0.49	-0.59	-0.56	-0.62	-0.62	-0.33	0.77	2.15	3.03	3.93	3.03	2.41	1.19	1.12	24	3.93	-0.62	0.83
11/8/07	1.38	1.47	1.91	1.91	0.94	0.47	0.01	-0.12	-0.22	-0.47	-0.61	-0.82	-0.84	-0.79	-0.67	-0.52	0.03	0.43	0.61	0.80	0.73	0.63	1.42	3.75	24	3.75	-0.84	0.48
11/9/07	4.59	4.39	5.17	3.57	3.33	2.60	3.02	1.65	0.35	-0.59	-0.77	-0.70	-0.64	-0.71	-0.72	-0.57	-0.29	0.53	0.83	0.05	-0.25	-0.25	-0.18	-0.15	24	5.17	-0.77	1.01
11/10/07	-0.17	-0.11	-0.12	-0.19	-0.09	0.36	0.62	0.34	0.91	-0.09	-0.69	-0.65	-0.69	-0.65	-0.67	-0.54	0.13	1.56	3.41	4.15	5.34	5.34	4.65	5.09	24	5.34	-0.69	1.14
11/11/07	4.55	4.66	4.45	3.89	2.05	2.75	1.92	1.48	0.42	-0.49	-0.58	-0.81	-0.75	-0.66	-0.57	-0.48	-0.02	1.59	1.19	1.28	1.71	2.33	2.44	1.92	24	4.66	-0.81	1.43
11/12/07	2.14	1.97	1.37	0.91	1.25	0.29	1.57	2.85	1.46	-0.51	-0.70	-0.78	-0.85	-0.87	-0.79	-0.60	0.05	1.70	1.20	0.58	0.53	0.22	0.17	0.19	24	2.85	-0.87	0.56
11/13/07	0.08	0.07	0.09	0.05	0.44	2.01	3.68	4.25	3.89	0.40	-0.19	-0.37	-0.52	-0.73	-0.56	-0.34	-0.13	-0.07	-0.12	-0.11	0.21	0.25	0.18	0.14	24	4.25	-0.73	0.53
11/14/07	0.08	0.01	0.07	-0.02	-0.03	-0.11	-0.11	-0.19	-0.35	-0.55	-0.57	-0.60	-0.62	-0.62	-0.60	-0.53	-0.27	0.15	0.48	0.13	0.59	1.50	2.00	2.56	24	2.56	-0.62	0.10
11/15/07	2.11	1.63	1.36	1.92	2.77	4.72	4.70	4.79	2.69	0.44	-0.60	-0.78	-0.67	-0.66	-0.72	-0.54	0.07	0.88	0.30	0.16	0.56	1.09	2.22	3.55	24	4.79	-0.78	1.33
11/16/07	5.16	3.62	4.69	2.90	3.70	4.75	3.26	2.93	1.99	0.34	-0.34	-0.54	-0.52	-0.59	-0.63	-0.36	-0.01	0.49	1.00	1.28	2.33	1.44	0.18	0.07	24	5.16	-0.63	1.55
11/17/07	0.44	0.66	0.79	0.93	1.16	0.54	0.70	0.28	-0.36	-0.58	-0.66	-0.83	-0.90	-0.84	-0.61	-0.52	-0.44	-0.12	-0.09	-0.08	-0.27	-0.07	0.05	-0.08	24	1.16	-0.90	-0.04
11/18/07	-0.18	-0.24	-0.28	-0.37	-0.38	-0.39	-0.40	-0.39	-0.43	-0.51	-0.62	-0.76	-0.83	-0.86	-0.61	-0.44	0.49	2.04	3.47	4.15	4.83	5.16	4.07	3.57	24	5.16	-0.86	0.84
11/19/07	4.54	4.19	1.53	1.67	2.61	3.51	3.21	2.74	3.09	0.12	-0.66	-0.78	-0.74	-0.71	-0.65	-0.55	0.38	2.38	3.09	2.50	1.95	2.13	3.81	3.10	24	4.54	-0.78	1.77
11/20/07	1.96	1.92	1.35	1.21	1.46	1.57	0.34	-0.19	-0.42	-0.48	-0.58	-0.74	-0.76	-0.67	-0.56	-0.53	-0.26	-0.16	-0.26	-0.33	-0.33	-0.32	-0.33	-0.31	24	1.96	-0.76	0.11
11/21/07	-0.34	-0.35	-0.35	-0.30	-0.31	-0.31	-0.34	-0.34	-0.43	-0.63	-0.80	-0.82	-0.84	-0.88	-0.69	-0.56	-0.15	0.75	1.03	0.85	0.86	1.09	0.72	0.83	24	1.09	-0.88	-0.10
11/22/07	0.47	0.35	0.34	0.66	0.66	1.07	1.26	1.66	0.12	-0.49	-0.59	-0.70	-0.70	-0.65	-0.65	-0.60	-0.29	0.30	2.39	2.59	3.12	4.42	4.68	4.61	24	4.68	-0.70	1.00
11/23/07	4.32	1.84	3.41	2.80	1.61	1.16	1.95	2.02	0.00	-0.47	-0.64	-0.75	-0.74	-0.74	-0.63	-0.52	-0.38	-0.34	-0.30	-0.34	-0.38	-0.43	-0.44	-0.45	24	4.32	-0.75	0.48
11/24/07	-0.47	-0.44	-0.42	-0.13	0.38	2.51	2.98	2.88	1.19	-0.46	-0.72	-0.76	-0.83	-0.81	-0.75	-0.52	0.28	2.37	3.03	3.63	4.17	3.56	3.26	4.35	24	4.35	-0.83	1.18
11/25/07	4.08	3.74	3.04	3.01	4.20	5.38	6.28	3.58	0.72	0.01	-0.34	-0.46	-0.74	-0.76	-0.60	-0.49	0.31	1.88	2.07	2.18	2.17	2.24	2.66	2.98	24	6.28	-0.76	1.96
11/26/07	2.40	1.61	1.83	2.52	4.06	3.83	3.70	1.81	1.31	-0.36	-0.60	-0.61	-0.68	-0.66	-0.66	-0.52	0.54	2.52	1.14	-0.19	-0.38	-0.33	-0.34	-0.38	24	4.06	-0.68	0.90
11/27/07	-0.41	-0.50	-0.53	-0.48	-0.46	-0.43	-0.48	-0.48	-0.61	-0.72	-0.81	-1.00	-0.92	-0.97	-0.81	-0.61	-0.43	-0.42	-0.45	-0.38	-0.40	-0.42	-0.35	-0.23	24	-0.23	-1.00	-0.55
11/28/07	0.06	0.89	2.09	0.80	0.09	-0.24	-0.28	-0.48	-0.44	-0.67	-0.80	-0.90	-0.91	-0.89	-0.80	-0.62	-0.30	0.60	1.68	2.68	2.40	1.78	1.46	0.44	24	2.68	-0.91	0.32
11/29/07	0.18	-0.25	-0.25	-0.12	-0.20	0.21	0.08	0.31	0.05	-0.50	-0.60	-0.59	-0.61	-0.63	-0.60	-0.56	-0.45	-0.29	0.22	0.44	0.45	0.43	0.89	0.28	24	0.89	-0.63	-0.09
11/30/07	0.01	0.03	0.03	0.04	0.09	0.52	0.84	0.78	0.72	-0.46	-0.63	-0.65	-0.71	-0.65	-0.49	-0.52	-0.36	0.45	1.88	1.90	1.61	1.12	0.13	-0.23	24	1.90	-0.71	0.23
																									0			

hr max	5.23	6.06	5.18	5.53	6.35	6.41	6.28	4.79	3.89	0.44	-0.19	-0.37	-0.52	-0.51	-0.49	-0.33	0.77	2.52	4.49	4.67	5.34	5.34	5.70	6.46
hr min	-0.47	-0.50	-0.53	-0.48	-0.46	-0.43	-0.48	-0.48	-0.61	-0.72	-0.83	-1.00	-0.93	-0.97	-0.81	-0.63	-0.61	-0.42	-0.45	-0.38	-0.40	-0.43	-0.44	-0.45
average	1.86	1.59	1.49	1.38	1.50	1.78	1.74	1.42	0.62	-0.38	-0.62	-0.72	-0.75	-0.73	-0.65	-0.52	-0.09	0.90	1.53	1.59	1.65	1.56	1.57	1.66

monthly	monthly	monthly
max hr	min hr	ave hr
6.46	-1.00	0.81
11/3/07	11/27/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	*100.0%*

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
degC
100-50

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	2.79	3.88	3.72	2.23	1.92	2.19	2.46	2.05	2.15	1.00	-0.45	-0.42	-0.58	-0.56	-0.58	-0.53	-0.53	-0.05	0.51	1.83	0.67	0.72	0.58	0.52	24	3.88	-0.58	1.06
11/2/07	0.33	0.68	-0.23	-0.34	-0.32	-0.20	-0.09	0.07	-0.27	-0.53	-0.59	-0.63	-0.61	-0.57	-0.59	-0.54	-0.42	-0.02	0.18	0.30	0.46	0.55	0.96	0.73	24	0.96	-0.63	-0.07
11/3/07	0.83	0.33	0.24	0.09	0.49	0.57	1.99	3.00	1.38	0.39	-0.07	-0.41	-0.55	-0.47	-0.48	-0.49	-0.34	0.16	0.05	0.04	0.26	0.05	0.50	1.32	24	3.00	-0.55	0.37
11/4/07	2.60	2.80	1.86	1.33	2.09	2.45	1.62	1.97	2.23	1.41	0.59	-0.31	-0.55	-0.53	-0.52	-0.54	-0.31	-0.03	0.10	0.17	-0.13	-0.43	-0.39	-0.22	24	2.80	-0.55	0.72
11/5/07	-0.24	-0.31	-0.16	-0.03	-0.05	-0.13	-0.02	-0.22	-0.45	-0.55	-0.59	-0.62	-0.61	-0.59	-0.58	-0.53	-0.47	-0.14	0.16	0.49	0.59	0.63	0.97	0.61	24	0.97	-0.62	-0.12
11/6/07	0.74	1.11	1.00	1.03	0.88	0.52	0.67	0.29	0.30	-0.38	-0.53	-0.50	-0.55	-0.55	-0.48	-0.49	-0.42	-0.33	-0.13	0.20	2.03	2.53	1.89	0.43	24	2.53	-0.55	0.39
11/7/07	0.81	0.34	0.33	0.97	0.96	1.06	2.17	2.14	2.52	0.89	-0.37	-0.47	-0.47	-0.50	-0.52	-0.43	-0.16	-0.28	-0.15	-0.11	0.31	0.95	1.18	0.95	24	2.52	-0.52	0.51
11/8/07	1.08	0.97	0.12	-0.05	0.62	1.78	2.70	2.09	0.95	-0.17	-0.47	-0.54	-0.56	-0.53	-0.53	-0.52	-0.40	-0.27	0.13	0.79	1.02	1.45	2.23	2.41	24	2.70	-0.56	0.60
11/9/07	1.29	1.96	2.40	4.27	2.70	2.01	1.34	-0.06	0.36	-0.45	-0.52	-0.53	-0.51	-0.53	-0.56	-0.53	-0.48	-0.24	0.02	-0.13	-0.31	-0.24	-0.12	-0.07	24	4.27	-0.56	0.46
11/10/07	0.12	0.15	0.30	0.11	0.40	1.73	1.35	0.94	0.96	0.60	-0.49	-0.52	-0.54	-0.52	-0.50	-0.53	-0.41	-0.21	0.00	0.15	0.71	1.13	1.61	2.18	24	2.18	-0.54	0.36
11/11/07	3.36	2.29	3.69	3.37	1.78	1.25	1.71	2.36	0.99	-0.41	-0.53	-0.57	-0.58	-0.56	-0.52	-0.49	-0.25	0.15	0.52	0.64	0.58	0.67	0.48	0.34	24	3.69	-0.58	0.84
11/12/07	0.16	0.31	0.57	0.39	-0.06	0.04	0.02	0.41	0.52	-0.32	-0.54	-0.57	-0.59	-0.55	-0.56	-0.53	-0.25	0.67	2.17	1.54	1.08	0.73	0.52	0.59	24	2.17	-0.59	0.24
11/13/07	0.30	0.57	0.69	0.73	0.94	1.69	1.45	0.95	1.28	2.14	0.80	-0.22	-0.51	-0.55	-0.51	-0.43	-0.29	-0.25	-0.24	-0.20	0.21	0.28	0.32	0.11	24	2.14	-0.55	0.39
11/14/07	-0.07	-0.07	-0.01	-0.18	-0.21	-0.26	-0.27	-0.34	-0.43	-0.50	-0.51	-0.52	-0.53	-0.55	-0.52	-0.49	-0.39	-0.05	0.17	-0.08	0.06	0.13	0.00	0.25	24	0.25	-0.55	-0.22
11/15/07	0.36	0.64	1.04	1.53	1.43	1.57	2.00	2.31	2.22	2.01	0.01	-0.57	-0.53	-0.51	-0.54	-0.50	-0.29	0.39	0.61	0.18	1.20	1.84	1.75	3.04	24	3.04	-0.57	0.88
11/16/07	3.19	2.89	2.86	4.78	4.97	4.18	3.79	3.93	4.21	3.96	1.34	-0.36	-0.38	-0.50	-0.54	-0.47	-0.39	-0.26	-0.07	0.05	0.18	0.24	0.68	-0.24	24	4.97	-0.54	1.59
11/17/07	0.20	1.07	1.75	2.25	1.94	0.29	0.12	-0.04	-0.31	-0.48	-0.51	-0.58	-0.64	-0.59	-0.56	-0.52	-0.48	-0.30	-0.24	-0.25	-0.34	-0.13	0.07	-0.15	24	2.25	-0.64	0.07
11/18/07	-0.23	-0.27	-0.14	-0.29	-0.32	-0.39	-0.38	-0.31	-0.35	-0.48	-0.53	-0.57	-0.57	-0.55	-0.48	-0.39	0.00	0.89	0.82	0.91	2.24	2.77	2.24	2.97	24	2.97	-0.57	0.27
11/19/07	1.61	1.43	1.35	1.87	2.64	2.19	2.47	2.10	1.47	0.38	-0.48	-0.53	-0.55	-0.54	-0.52	-0.51	-0.39	-0.12	0.97	2.18	2.37	1.92	1.61	2.24	24	2.64	-0.55	1.05
11/20/07	1.49	0.22	-0.15	-0.12	0.42	-0.04	0.07	-0.23	-0.42	-0.42	-0.48	-0.49	-0.51	-0.53	-0.50	-0.49	-0.40	-0.35	-0.40	-0.45	-0.44	-0.44	-0.44	-0.42	24	1.49	-0.53	-0.23
11/21/07	-0.45	-0.45	-0.45	-0.43	-0.39	-0.38	-0.42	-0.43	-0.48	-0.51	-0.54	-0.54	-0.56	-0.54	-0.52	-0.51	-0.42	-0.35	-0.26	-0.10	0.05	0.27	0.36	0.33	24	0.36	-0.56	-0.32
11/22/07	0.39	0.28	0.14	0.17	0.19	0.29	0.10	0.52	0.82	-0.01	-0.52	-0.55	-0.56	-0.53	-0.53	-0.50	-0.45	-0.31	-0.22	-0.26	-0.11	0.09	0.61	0.88	24	0.88	-0.56	0.00
11/23/07	0.72	2.80	1.34	0.74	0.66	0.86	1.32	1.13	0.95	0.09	-0.53	-0.56	-0.58	-0.56	-0.55	-0.49	-0.45	-0.43	-0.39	-0.42	-0.44	-0.47	-0.47	-0.46	24	2.80	-0.58	0.16
11/24/07	-0.47	-0.46	-0.43	-0.13	0.03	0.60	0.33	0.60	1.43	0.39	-0.51	-0.55	-0.58	-0.54	-0.54	-0.50	-0.24	0.01	0.36	1.30	2.81	3.14	4.07	5.07	24	5.07	-0.58	0.63
11/25/07	4.77	4.13	3.83	3.38	3.52	3.03	3.47	1.47	2.19	0.93	-0.38	-0.49	-0.58	-0.57	-0.54	-0.51	-0.27	0.09	0.25	0.63	0.91	0.53	0.32	0.32	24	4.77	-0.58	1.27
11/26/07	0.10	0.05	1.05	1.80	2.06	2.39	0.93	0.46	0.64	0.05	-0.45	-0.51	-0.51	-0.49	-0.52	-0.49	-0.23	0.43	0.36	-0.22	-0.45	-0.44	-0.44	-0.46	24	2.39	-0.52	0.21
11/27/07	-0.48	-0.49	-0.49	-0.48	-0.47	-0.47	-0.43	-0.50	-0.49	-0.52	-0.52	-0.57	-0.58	-0.58	-0.55	-0.52	-0.47	-0.47	-0.47	-0.44	-0.44	-0.45	-0.45	-0.40	24	-0.40	-0.58	-0.49
11/28/07	-0.15	0.26	0.35	0.78	0.08	-0.31	-0.35	-0.47	-0.46	-0.54	-0.61	-0.64	-0.60	-0.63	-0.60	-0.52	-0.38	0.08	0.38	0.79	0.66	0.71	0.10	0.06	24	0.79	-0.64	-0.08
11/29/07	-0.26	-0.39	-0.35	-0.31	-0.18	-0.23	-0.29	0.07	0.06	-0.18	-0.44	-0.48	-0.50	-0.49	-0.48	-0.48	-0.47	-0.31	0.01	0.22	0.11	0.02	-0.06	-0.11	24	0.22	-0.50	-0.23
11/30/07	-0.23	-0.21	-0.11	-0.10	0.12	0.04	0.14	0.39	0.69	-0.28	-0.55	-0.53	-0.54	-0.51	-0.46	-0.50	-0.45	-0.26	0.00	0.35	0.82	1.12	1.04	0.37	24	1.12	-0.55	0.01
																									0			
hr max	4.77	4.13	3.83	4.78	4.97	4.18	3.79	3.93	4.21	3.96	1.34	-0.22	-0.38	-0.47	-0.46	-0.39	0.00	0.89	2.17	2.18	2.81	3.14	4.07	5.07	monthly max hr	monthly min hr	monthly ave hr	
hr min	-0.48	-0.49	-0.49	-0.48	-0.47	-0.47	-0.43	-0.50	-0.49	-0.55	-0.61	-0.64	-0.64	-0.63	-0.60	-0.54	-0.53	-0.47	-0.47	-0.45	-0.45	-0.47	-0.47	-0.46	5.07	-0.64	0.34	
average	0.82	0.88	0.87	0.98	0.96	0.94	1.00	0.89	0.82	0.25	-0.33	-0.51	-0.55	-0.54	-0.53	-0.50	-0.36	-0.07	0.17	0.34	0.56	0.66	0.72	0.77	11/24/07	11/17/07		

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
ppb
NOx

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	3.3	2.9	2.8	2.8	2.7	2.3	2.3	2.6	2.8	3.1	3.9	6.0	5.2	6.0	5.9	7.8	7.8	15.7	12.9	8.8	6.9	4.4	4.2		23	15.7	2.3	5.4
11/2/07	3.8	3.4	3.2	3.5	3.5	2.9	2.7	2.8	2.8	3.1	3.3	3.7	3.5	3.6	3.7	4.0	4.3	5.9	4.1	3.9	4.3	2.8	4.3		23	5.9	2.7	3.6
11/3/07	2.8	2.7	2.5	2.3	2.2	2.3	2.2	2.2	2.6	2.9	3.6	3.8	3.7	3.9	3.9	4.1	4.7	5.1	4.8	4.1	4.0	6.1	6.5		23	6.5	2.2	3.6
11/4/07	3.3	3.1	3.2	3.4	3.4	3.7	3.7	3.7	3.9	3.7	4.2	4.7	5.4	5.7	5.1	4.6	1.4	1.3	1.7	1.3	1.9	3.1	3.2		23	5.7	1.3	3.4
11/5/07	2.8	2.3	1.7	1.2	1.2	1.2	1.2	1.5	1.8	1.6	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.7	2.2	2.8	3.0	2.4	2.2		23	3.0	1.2	1.8
11/6/07	1.6			1.4	1.3	1.4	1.4	2.5	3.0	2.0	1.7	2.1	1.9	2.0	2.2	1.9	1.8	2.3	2.7	1.8	2.0	1.9	1.7		21	3.0	1.3	1.9
11/7/07	1.6	1.5	1.6	1.6	1.7	1.7	1.7	1.7	3.3	2.9	2.3	2.4	3.1	3.2	2.4	2.4	3.2	4.1	3.6	2.9	3.6	4.2	3.8		23	4.2	1.5	2.6
11/8/07	2.2	2.2	2.1	1.9	1.9	2.2	2.7	2.7	2.8	2.7	2.6	2.0	1.9	2.2	2.2	2.2	2.6	3.2	4.5	7.1	4.3	3.4	3.4		23	7.1	1.9	2.8
11/9/07	3.1	3.2	3.1	3.1	2.9	2.9	2.6	2.9	3.3	2.7	2.5	2.3	2.1	1.9	1.8	2.2	2.6	3.5	2.4	1.9	2.1	2.1	2.0		23	3.5	1.8	2.6
11/10/07	2.2	2.7	2.8	3.2	3.5	3.4	3.2	3.5	3.8	5.2	4.1	3.7	3.3	3.3	3.2	3.4	3.6	4.2	6.0	4.6	3.9	3.6	3.4		23	6.0	2.2	3.6
11/11/07	2.7	2.5	2.4	2.4	2.5	2.6	3.3	2.5	2.4	2.2	2.0	1.9	1.7	1.2	1.5	1.6	1.8	2.2		2.3	2.1	2.4	2.1		22	3.3	1.2	2.2
11/12/07	1.8	1.6	1.7	1.6	1.4	1.7	1.6	1.8	2.3	2.4	1.5	2.0	1.8	1.6			1.9	2.7	2.2	1.9	1.7	1.7	1.6		21	2.7	1.4	1.8
11/13/07	1.8			2.8	3.1	3.1	2.8	2.8	3.1	3.4	3.6	3.3	2.1	1.9	1.4	1.5	1.4	1.4	1.2	1.1	1.2	1.1	1.1		21	3.6	1.1	2.2
11/14/07	1.0	0.9	1.0	1.0	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.3	1.2	1.4	1.3	1.3	1.5	1.8	1.5	1.3	1.2	1.3	1.3		23	1.8	0.9	1.3
11/15/07	1.2	1.3	1.3	1.4	1.4	1.4	2.1	1.8	3.0	1.8	1.6	1.3	1.4	1.2	1.2	1.4	1.4	1.4	1.7	1.7	1.8	1.7	1.7		23	3.0	1.2	1.6
11/16/07	1.7	2.0	2.3	1.8	1.8	1.8	2.2	2.3	2.4	2.3	1.9	1.9	1.8	1.6	1.5	1.5	2.2	2.8	3.7	2.2	2.7	2.9	3.2		23	3.7	1.5	2.2
11/17/07	3.7	3.7	4.0	4.4	4.5	4.9	5.3	5.6	5.7	5.3	5.3	4.4	3.3	3.1	2.8	3.0	2.9	3.1	3.1	3.1	3.4	3.4	3.2		23	5.7	2.8	4.0
11/18/07	3.2	3.6	4.1	4.9	5.1	4.8	4.6	4.3	4.3	4.7	5.1	5.6	5.4	5.1	5.0	4.9	4.5	4.6	4.7	4.6	4.5	4.2	4.4		23	5.6	3.2	4.6
11/19/07	3.8	3.3	3.1	3.2	3.1	3.0	3.1	3.0	3.0	2.9	3.3	4.0	3.2	3.1	2.7	2.5	2.9	3.3	4.1	3.9	4.0	2.9	2.5		23	4.1	2.5	3.2
11/20/07	2.6			2.8	2.8	2.5	2.4	2.4	2.2	2.4	2.8	2.9	2.7	2.6	3.0	3.1	3.7	3.2	3.1	2.7	3.0	2.9	2.4		21	3.7	2.2	2.8
11/21/07	2.1	1.8	1.6	1.7	1.7	1.8	1.7	1.7	1.7	1.8	1.7	1.6	1.6	1.6	1.5	1.5	1.7	2.5	2.6	2.3	2.1	2.9	2.2		23	2.9	1.5	1.9
11/22/07	1.7	1.7	1.8	1.7	2.8	3.6	2.3	1.6	1.4	1.9	1.9	1.7	1.6	1.4	1.5	1.3	1.4	1.9	1.8	2.0	1.9	1.7	1.4		23	3.6	1.3	1.8
11/23/07	1.7	1.8	1.7	1.7	1.6	1.7	1.7	1.8	2.1	2.3	2.0	1.8	1.7	1.8	2.0	1.7	1.7	1.8	1.9	1.8	2.1	3.0	3.4		23	3.4	1.6	1.9
11/24/07	3.2	2.0	1.8	1.7	1.7	1.7	1.7	1.8	1.7	1.8	2.1	2.8	2.7	2.1	1.7	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.6		23	3.2	1.6	1.9
11/25/07	1.7	1.8	1.8	1.9	1.9	2.0	2.1	1.9	1.9	1.7	1.6	1.7	1.7	1.7	1.8	1.8	2.1	2.2	2.0	1.8	2.0	1.8	2.1		23	2.2	1.6	1.9
11/26/07	2.3	2.5	2.2	2.2	2.2	2.2	2.2	2.2	2.5	2.7	2.7	2.6	2.5	2.3	2.3	2.1	1.8	2.3	1.9	2.7	2.9	2.3	2.7		23	2.9	1.8	2.4
11/27/07					1.7	1.7	1.4	1.2	1.2	1.2	1.2	1.2	1.3	1.4	1.2	1.7	2.5	2.3	2.1	2.3	2.2	2.5	2.7		19	2.7	1.2	1.7
11/28/07	3.5	2.3	3.0	1.9	1.6	1.7	1.7	1.8	1.9	1.8	1.8	1.8	1.9	1.7	1.8	2.3	2.9	3.0	2.8	2.6	2.1	1.9	1.9		23	3.5	1.6	2.2
11/29/07	3.0	3.9	3.6	3.0	2.7	2.5	2.6	3.0	3.0	2.4	2.9	1.8	1.7	2.0	2.2	2.1	2.1	3.3	2.2	2.2	1.9	1.7	1.7		23	3.9	1.7	2.5
11/30/07	1.7	1.8	1.7	1.7	1.7	1.8	1.6	1.7	1.8	1.9	2.0	1.7	1.7	1.7	2.7	2.0	1.7	1.8	1.8	1.8	1.9	1.8	1.7		23	2.7	1.6	1.8
																									0			
hr max	3.8	3.9	4.1	4.9	5.1	4.9	5.3	5.6	5.7	5.3	5.3	6.0	5.4	6.0	5.9	7.8	7.8	15.7	12.9	8.8	6.9	6.1	6.5	0.0				
hr min	1.0	0.9	1.0	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.4	1.3	1.2	1.1	1.2	1.1	1.1	0.0				
average	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.6	2.5	2.5	2.4	2.5	2.6	3.2	3.1	2.8	2.8	2.7	2.7	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
15.70	0.90	2.58
11/1/07	11/14/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	677
possible hours	720
data capture	94.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
ppb
NO

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	2.2	1.9	1.7	1.6	1.6	1.6	1.6	1.6	1.8	2.1	2.8	4.5	4.1	4.8	4.6	5.3	5.3	6.1	5.5	3.6	3.4	3.1	3.1		23	6.1	1.6	3.2
11/2/07	3.1	2.7	2.5	2.5	2.3	2.1	1.8	1.7	1.9	2.2	2.5	3.1	2.9	3.1	3.1	3.4	3.9	3.9	2.8	2.6	2.7	2.1	2.3		23	3.9	1.7	2.7
11/3/07	2.0	1.7	1.6	1.6	1.4	1.5	1.4	1.5	1.6	1.8	2.3	2.5	2.7	3.0	3.1	3.3	3.8	4.3	3.7	3.1	2.9	3.0	3.1		23	4.3	1.4	2.5
11/4/07	2.2	2.2	2.3	2.6	2.6	2.6	2.7	2.6	3.0	3.0	3.3	3.8	4.5	4.7	4.4	4.1	0.8	0.7	0.8	0.6	0.6	0.7	0.7		23	4.7	0.6	2.4
11/5/07	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6		23	0.7	0.6	0.6
11/6/07	0.6			0.6	0.7	0.6	0.6	0.8	1.1	1.0	0.9	1.1	1.0	0.9	0.9	0.7	0.6	0.6	0.6	0.7	0.6	0.6	0.6		21	1.1	0.6	0.8
11/7/07	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.7	1.8	0.9	0.7	1.0	1.2	1.3	0.9	0.8	0.9	0.8	0.7	0.6	0.7	0.6	0.6		23	1.8	0.6	0.8
11/8/07	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.6	0.7	0.7	1.5	0.7	0.6	0.7		23	1.5	0.6	0.7
11/9/07	0.7	0.6	0.6	0.6	0.7	0.7	0.7	0.7	1.1	1.1	1.1	1.0	0.7	0.8	0.7	0.8	0.9	1.1	0.7	0.6	0.7	0.7	0.6		23	1.1	0.6	0.8
11/10/07	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.7	1.0	1.8	1.5	1.3	1.1	0.9	0.9	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.7		23	1.8	0.6	0.8
11/11/07	0.7	0.7	0.6	0.6	0.7	0.7	1.0	0.7	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.7	0.8		0.7	0.6	0.7	0.6		22	1.0	0.6	0.7
11/12/07	0.6	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.7	0.9	0.7	0.9	0.7	0.8			0.8	0.6	0.6	0.7	0.6	0.6	0.6		21	0.9	0.6	0.7
11/13/07	0.6			0.6	0.6	0.7	0.7	0.6	0.7	1.1	1.1	0.9	0.7	0.6	0.7	0.7	0.6	0.7	0.6	0.7	0.6	0.7	0.6		21	1.1	0.6	0.7
11/14/07	0.7	0.6	0.7	0.6	0.6	0.7	0.6	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.7		23	0.7	0.6	0.7
11/15/07	0.7	0.6	0.6	0.7	0.6	0.7	0.6	0.7	1.1	0.8	0.7	0.7	0.6	0.7	0.6	0.7	0.6	0.7	0.6	0.7	0.6	0.6	0.6		23	1.1	0.6	0.7
11/16/07	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.7	0.7		23	0.7	0.6	0.7
11/17/07	0.7	0.6	0.7	0.7	0.7	0.6	0.7	0.8	1.6	1.7	1.8	1.9	1.3	1.2	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7		23	1.9	0.6	0.9
11/18/07	0.6	0.7	0.6	0.7	0.7	0.7	0.7	0.7	1.1	1.5	2.2	2.7	2.7	2.3	1.7	1.5	1.1	0.7	0.7	0.7	0.6	0.6	0.8		23	2.7	0.6	1.1
11/19/07	0.6	0.7	0.6	0.7	0.6	0.6	0.6	0.7	0.8	0.8	1.1	1.3	1.1	0.9	0.7	0.6	0.7	0.6	0.7	0.7	0.6	0.7	0.7		23	1.3	0.6	0.7
11/20/07	0.6			0.6	0.7	0.6	0.7	0.6	0.6	1.0	1.3	1.4	1.3	1.1	1.1	1.1	0.9	0.7	0.8	0.7	0.7	0.7	0.6		21	1.4	0.6	0.8
11/21/07	0.7	0.7	0.7	0.6	0.7	0.6	0.7	0.6	0.6	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.6	0.6		23	0.8	0.6	0.7
11/22/07	0.7	0.6	0.7	0.6	0.7	0.6	0.7	0.7	0.6	0.9	1.1	0.8	0.7	0.7	0.7	0.7	0.7	0.9	0.6	0.6	0.7	0.7	0.7		23	1.1	0.6	0.7
11/23/07	0.6	0.6	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.8	0.9	0.7	0.8	0.8	0.8	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.6		23	0.9	0.6	0.7
11/24/07	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.6	0.8	1.1	1.2	1.2	0.9	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.7	0.6		23	1.2	0.6	0.7
11/25/07	0.7	0.6	0.6	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.6	0.8	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.7	0.7		23	0.8	0.6	0.7
11/26/07	0.7	0.6	0.7	0.6	0.6	0.7	0.6	0.7	0.9	1.2	1.2	1.2	1.2	1.1	0.9	0.8	0.7	0.8	0.7	0.6	0.7	0.7	0.7		23	1.2	0.6	0.8
11/27/07					0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.7	0.6	0.6	0.6	0.7	0.6	0.6		19	0.7	0.6	0.6
11/28/07	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.7	1.0	1.1	1.0	1.2	0.9	0.8	1.0	0.8	0.7	0.7	0.6	0.7	0.7	0.7		23	1.2	0.6	0.8
11/29/07	0.5	0.6	0.6	0.7	0.6	0.7	0.7	0.7	0.8	0.7	1.0	0.7	0.6	0.7	0.9	0.7	0.7	2.0	0.7	0.7	0.7	0.7	0.6		23	2.0	0.5	0.8
11/30/07	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.7	0.7	1.1	1.1	1.0	0.9	0.8	1.1	0.8	0.7	0.6	0.6	0.7	0.6	0.6	0.6		23	1.1	0.6	0.7
																									0			
hr max	3.1	2.7	2.5	2.6	2.6	2.6	2.7	2.6	3.0	3.0	3.3	4.5	4.5	4.8	4.6	5.3	5.3	6.1	5.5	3.6	3.4	3.1	3.1	0.0				
hr min	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0				
average	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	1.0	1.1	1.2	1.3	1.3	1.3	1.2	1.2	1.1	1.2	1.0	0.9	0.9	0.9	0.9	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
6.1	0.5	1.0
11/1/07	11/29/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	677
possible hours	720
data capture	94.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
ppb
NO2

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	1.4	1.2	1.2	1.3	1.2	1.0	1.0	1.1	1.1	1.3	1.3	1.7	1.3	1.4	1.6	2.7	2.7	9.8	7.4	5.3	3.7	1.4	1.2		23	9.8	1.0	2.3
11/2/07	0.9	0.8	0.9	1.2	1.3	1.1	1.1	1.2	1.1	0.9	0.9	0.9	0.8	0.7	0.7	0.8	0.6	2.1	1.5	1.5	1.7	0.8	2.1		23	2.1	0.6	1.1
11/3/07	0.9	1.1	1.1	1.0	1.1	1.1	1.0	0.9	1.1	1.2	1.6	1.5	1.3	1.2	0.9	0.9	1.1	1.1	1.3	1.2	1.2	3.2	3.6		23	3.6	0.9	1.3
11/4/07	1.2	1.0	1.0	1.1	1.1	1.2	1.2	1.2	1.1	0.9	1.1	1.1	1.0	1.3	1.0	0.6	0.7	0.7	1.2	0.9	1.4	2.5	2.5		23	2.5	0.6	1.2
11/5/07	2.3	1.9	1.4	0.7	0.7	0.8	0.8	1.0	1.1	0.9	0.8	0.7	0.7	0.9	0.9	0.9	0.9	1.2	1.7	2.4	2.6	2.0	1.8		23	2.6	0.7	1.3
11/6/07	1.1			1.0	0.8	1.0	1.0	1.9	2.1	1.2	1.0	1.3	1.1	1.2	1.5	1.3	1.2	1.9	2.2	1.4	1.6	1.5	1.3		21	2.2	0.8	1.4
11/7/07	1.2	1.1	1.2	1.2	1.1	1.2	1.3	1.3	1.6	2.1	1.7	1.7	2.2	2.0	1.5	1.6	2.4	3.4	3.1	2.5	3.1	3.7	3.4		23	3.7	1.1	2.0
11/8/07	1.7	1.8	1.7	1.4	1.5	1.8	2.2	2.2	2.3	2.1	1.8	1.4	1.3	1.7	1.7	1.7	2.1	2.7	3.9	5.6	3.7	3.0	3.0		23	5.6	1.3	2.3
11/9/07	2.7	2.7	2.7	2.6	2.5	2.4	2.1	2.3	2.4	1.8	1.7	1.6	1.3	1.2	1.1	1.5	1.9	2.4	1.9	1.4	1.7	1.6	1.5		23	2.7	1.1	2.0
11/10/07	1.9	2.2	2.4	2.8	3.0	3.0	2.9	3.0	3.0	3.5	2.7	2.6	2.6	2.6	2.6	2.7	2.9	3.7	5.4	4.1	3.4	3.1	2.9		23	5.4	1.9	3.0
11/11/07	2.3	2.1	1.9	2.0	2.1	2.2	2.5	2.0	1.8	1.6	1.4	1.3	1.2	0.9	1.0	1.1	1.4	1.7		1.8	1.7	1.8	1.6		22	2.5	0.9	1.7
11/12/07	1.4	1.2	1.3	1.2	1.0	1.2	1.1	1.2	1.6	1.7	1.0	1.2	1.1	0.9			1.3	2.4	1.8	1.5	1.2	1.2	1.2		21	2.4	0.9	1.3
11/13/07	1.4			2.3	2.7	2.6	2.4	2.3	2.5	2.5	2.6	2.6	1.5	1.3	1.0	1.1	1.0	0.9	0.7	0.7	0.7	0.7	0.7		21	2.7	0.7	1.6
11/14/07	0.6	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.8	0.9	0.8	0.8	1.0	1.3	1.0	0.7	0.8	0.8	0.8		23	1.3	0.5	0.8
11/15/07	0.8	0.8	0.8	0.9	1.0	1.0	1.5	1.3	2.1	1.1	0.9	0.7	0.8	0.8	0.7	0.8	0.9	1.0	1.3	1.2	1.2	1.1	1.3		23	2.1	0.7	1.0
11/16/07	1.3	1.5	1.9	1.2	1.4	1.4	1.7	1.9	1.8	1.7	1.3	1.2	1.2	1.0	1.0	1.0	1.7	2.4	3.1	1.8	2.2	2.3	2.8		23	3.1	1.0	1.7
11/17/07	3.2	3.2	3.5	3.8	4.0	4.4	4.6	5.0	4.2	3.8	3.6	2.7	2.2	2.0	2.1	2.2	2.3	2.6	2.7	2.6	2.8	2.9	2.8		23	5.0	2.0	3.2
11/18/07	2.8	3.1	3.5	4.3	4.6	4.2	3.9	3.7	3.3	3.3	3.3	3.0	2.9	3.1	3.5	3.6	3.7	4.0	4.0	4.0	3.9	3.7	3.9		23	4.6	2.8	3.6
11/19/07	3.2	2.8	2.5	2.6	2.5	2.4	2.6	2.4	2.4	2.1	2.4	2.8	2.5	2.3	2.2	2.0	2.5	2.9	3.7	3.4	3.5	2.4	2.1		23	3.7	2.0	2.6
11/20/07	2.0			2.3	2.3	2.0	1.9	1.8	1.7	1.6	1.8	1.7	1.7	1.7	2.1	2.2	3.0	2.5	2.6	2.1	2.4	2.3	1.8		21	3.0	1.6	2.1
11/21/07	1.6	1.1	1.0	1.1	1.2	1.2	1.3	1.0	1.1	1.0	0.9	0.9	0.8	0.9	0.9	0.9	1.2	1.8	2.1	1.7	1.6	2.4	1.6		23	2.4	0.8	1.3
11/22/07	1.2	1.1	1.2	1.0	2.3	3.0	1.7	0.9	0.8	1.2	1.1	1.1	0.9	0.8	0.9	0.8	0.9	1.1	1.3	1.4	1.3	1.1	0.9		23	3.0	0.8	1.2
11/23/07	1.1	1.1	1.2	1.0	1.2	1.2	1.1	1.2	1.5	1.6	1.3	1.2	1.1	1.2	1.3	1.2	1.1	1.2	1.3	1.3	1.5	2.5	2.8		23	2.8	1.0	1.4
11/24/07	2.5	1.4	1.2	1.1	1.3	1.2	1.2	1.2	1.1	1.1	1.2	1.8	1.7	1.3	1.2	1.2	1.1	1.1	1.3	1.3	1.3	1.3	1.2		23	2.5	1.1	1.3
11/25/07	1.1	1.4	1.3	1.3	1.3	1.5	1.5	1.4	1.4	1.2	1.0	1.0	1.0	1.0	1.2	1.2	1.4	1.7	1.5	1.2	1.4	1.2	1.4		23	1.7	1.0	1.3
11/26/07	1.7	1.9	1.7	1.7	1.7	1.7	1.6	1.7	1.8	1.7	1.5	1.4	1.5	1.5	1.6	1.4	1.3	1.6	1.4	2.0	2.3	1.7	2.1		23	2.3	1.3	1.7
11/27/07					1.3	1.2	0.9	0.8	0.7	0.8	0.6	0.6	0.7	0.8	0.7	1.0	2.1	1.7	1.6	1.7	1.7	2.0	2.2		19	2.2	0.6	1.2
11/28/07	3.1	1.9	2.5	1.4	1.0	1.2	1.2	1.1	1.2	1.1	0.9	0.9	1.0	0.9	0.8	1.6	2.3	2.4	2.2	2.0	1.6	1.3	1.3		23	3.1	0.8	1.5
11/29/07	2.5	3.4	3.2	2.6	2.2	2.1	1.9	2.5	2.3	1.7	2.0	1.2	1.1	1.3	1.4	1.5	1.4	1.7	1.8	1.6	1.4	1.2	1.2		23	3.4	1.1	1.9
11/30/07	1.2	1.2	1.2	1.2	1.1	1.2	1.0	1.0	1.2	1.1	1.1	1.0	1.0	1.0	1.6	1.3	1.1	1.3	1.2	1.2	1.4	1.3	1.3		23	1.6	1.0	1.2
																									0			
hr max	3.2	3.4	3.5	4.3	4.6	4.4	4.6	5.0	4.2	3.8	3.6	3.0	2.9	3.1	3.5	3.6	3.7	9.8	7.4	5.6	3.9	3.7	3.9	0.0				
hr min	0.6	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.7	0.8	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.0				
average	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.5	1.5	1.3	1.3	1.4	1.4	1.6	2.2	2.3	2.1	2.0	1.9	1.9	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
9.8	0.5	1.7
11/1/07	11/14/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	677
possible hours	720
data capture	94.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
ppb
SO2

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	1.1	1.2	1.1	1.2	1.2	1.0	1.2	1.0	1.0	1.2	1.2	1.1	1.0	1.2	1.4	1.4	1.4	1.2	1.0	1.1	1.2	1.1	1.2		23	1.4	1.0	1.2
11/2/07	1.2	1.2	1.3	1.2	1.4	1.3	1.3	1.1	1.3	1.3	1.1	1.4	1.4	1.3	1.3	1.3	1.4	1.2	1.1	1.2	1.2	1.1	1.1		23	1.4	1.1	1.2
11/3/07	1.2	1.2	1.3	1.1	1.2	1.2	1.3	1.2	1.1	1.2	1.4	1.2	1.5	1.4	1.2	1.4	1.4	1.4	1.4	1.3	1.2	1.3	1.3		23	1.5	1.1	1.3
11/4/07	1.3	1.2	1.3	1.2	1.1	1.2	1.3	1.2	1.2	1.3	1.3	1.2	1.4	1.4	1.4	1.1	1.4	0.1	1.1	1.3	1.3	2.0	1.8		23	2.0	0.1	1.3
11/5/07	1.8	1.9	1.5	1.5	1.4	1.3	1.3	1.4	1.2	1.3	1.4	1.3	1.4	1.4	1.5	1.4	1.4	1.4	1.3	1.4	1.5	1.4	1.5		23	1.9	1.2	1.4
11/6/07	1.4			1.4	1.3	1.5	1.4	1.4	1.5	1.8	1.7	2.1	1.8	2.2	2.8	2.1	1.7	1.7	1.5	1.5	1.5	1.5	1.5		21	2.8	1.3	1.7
11/7/07	1.6	1.5	1.5	1.5	1.3	1.4	1.5	1.4	1.5	1.4	1.6	1.6	2.0	1.8	1.7	1.6	1.6	1.4	1.6	1.6	1.7	1.5	1.7		23	2.0	1.3	1.6
11/8/07	1.6	1.7	1.5	1.3	1.4	1.6	1.4	1.4	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.6	1.5	1.4	1.3	1.4	1.4	1.5	1.5		23	1.7	1.3	1.5
11/9/07	1.6	1.4	1.5	1.5	1.5	1.4	1.4	1.6	1.6	1.4	1.6	1.5	1.7	1.5	1.5	1.4	1.4	1.3	1.4	1.5	1.6	1.5	1.2		23	1.7	1.2	1.5
11/10/07	1.4	1.4	1.4	1.5	1.4	1.4	1.4	1.3	1.4	1.4	1.7	1.5	1.7	1.6	1.7	1.5	1.4	1.5	1.2	1.4	1.4	1.3	1.4		23	1.7	1.2	1.4
11/11/07	1.5	1.4	1.3	1.3	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.3	1.3	1.4	1.2	1.3	1.6	1.2		1.3	1.4	1.3	1.5		22	1.6	1.2	1.4
11/12/07	1.5	1.5	1.5	1.3	1.3	1.3	1.2	1.4	1.3	1.4	1.4	1.3	1.4	1.4			1.3	1.5	1.4	1.3	1.3	1.3	1.5		21	1.5	1.2	1.4
11/13/07	1.3			1.2	1.3	1.3	1.4	1.3	1.4	1.3	1.3	1.4	1.4	1.2	1.3	1.4	1.4	1.2	1.4	1.2	1.2	1.3	1.4		21	1.4	1.2	1.3
11/14/07	1.3	1.5	1.4	1.5	1.2	1.3	1.5	1.5	1.5	1.4	1.4	1.4	1.6	1.4	1.4	1.3	1.5	1.6	1.4	1.4	1.5	1.4	1.4		23	1.6	1.2	1.4
11/15/07	1.4	1.4	1.5	1.5	1.7	1.5	1.4	1.6	1.4	1.6	1.6	1.7	1.6	1.6	1.6	1.5	1.6	1.4	1.6	1.5	1.3	1.4	1.6		23	1.7	1.3	1.5
11/16/07	1.7	1.4	1.6	1.4	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.3	1.6	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.3	1.5	1.6		23	1.7	1.3	1.5
11/17/07	1.6	1.6	1.6	1.5	1.5	1.4	1.3	1.5	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.6	1.6	1.6	1.5	1.6	1.5	1.7		23	1.7	1.3	1.5
11/18/07	1.4	1.5	1.6	1.5	1.5	1.5	1.4	1.4	1.6	1.5	1.7	1.5	1.6	1.5	1.6	1.6	1.5	1.6	1.5	1.6	1.5	1.5	1.5		23	1.7	1.4	1.5
11/19/07	1.5	1.6	1.5	1.5	1.4	1.4	1.6	1.4	1.6	1.5	2.0	2.2	2.6	2.5	2.1	1.9	1.6	1.6	1.7	1.6	1.6	1.5	1.7		23	2.6	1.4	1.7
11/20/07	1.7			1.7	1.5	1.8	1.7	1.7	1.8	1.6	1.6	2.0	2.0	1.9	1.7	1.8	2.4	2.0	2.2	2.3	2.7	2.7	2.4		21	2.7	1.5	2.0
11/21/07	2.3	1.9	1.9	1.9	2.0	2.0	2.1	1.8	2.1	2.0	1.9	2.1	2.1	1.8	1.8	2.0	2.0	1.7	1.8	1.9	1.8	1.8	1.9		23	2.3	1.7	1.9
11/22/07	1.9	1.9	1.7	1.7	1.9	1.7	1.8	1.7	1.6	1.9	1.7	1.9	1.8	1.9	2.1	1.8	1.9	1.8	1.9	1.8	1.8	1.9	1.7		23	2.1	1.6	1.8
11/23/07	1.8	1.8	1.8	1.8	2.1	2.0	1.9	1.9	2.1	2.0	2.1	2.2	2.5	2.2	2.2	2.1	1.9	2.0	2.0	2.1	2.1	2.2	2.3		23	2.5	1.8	2.0
11/24/07	1.8	1.8	1.8	1.8	2.0	2.0	1.9	2.0	2.1	1.8	1.9	2.1	2.3	2.1	2.0	2.0	1.8	1.9	2.2	2.1	2.1	2.1	2.2		23	2.3	1.8	2.0
11/25/07	1.9	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.1	2.2	2.2	2.2	2.5	2.4	2.3	2.5	2.2	2.2	2.1	2.1	2.2	2.1	2.0		23	2.5	1.9	2.1
11/26/07	2.2	2.2	2.1	2.2	2.2	2.2	2.1	2.2	2.1	2.4	2.9	3.0	2.8	2.7	2.6	2.2	2.2	1.9	2.2	2.1	2.1	2.2	2.3		23	3.0	1.9	2.3
11/27/07					2.8	2.5	2.3	2.2	2.2	2.2	2.3	2.2	2.1	2.2	2.2	2.1	2.2	2.1	2.1	1.8	2.0	2.0	1.9		19	2.8	1.8	2.2
11/28/07	2.1	2.1	2.1	2.1	1.9	2.1	2.1	2.1	2.2	2.6	2.6	2.7	2.9	2.5	2.5	2.6	2.9	2.6	2.3	2.2	2.0	2.1	2.1		23	2.9	1.9	2.3
11/29/07	2.3	2.4	2.4	2.4	2.3	2.5	2.1	2.2	2.2	2.3	2.3	2.3	2.2	2.2	2.2	2.3	2.1	2.1	2.3	2.0	2.2	2.3	2.1		23	2.5	2.0	2.2
11/30/07	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.5	2.4	2.7	2.5	2.3	2.4	2.2	2.2	2.2	2.2	2.1	2.3	2.4	2.5		23	2.7	2.1	2.3
																									0			
hr max	2.3	2.4	2.4	2.4	2.8	2.5	2.3	2.2	2.3	2.6	2.9	3.0	2.9	2.7	2.8	2.6	2.9	2.6	2.3	2.3	2.7	2.7	2.5	0.0				
hr min	1.1	1.2	1.1	1.1	1.1	1.0	1.2	1.0	1.0	1.2	1.1	1.1	1.0	1.2	1.2	1.1	1.3	0.1	1.0	1.1	1.2	1.1	1.1	0.0				
average	1.6	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.8	1.8	1.7	1.7	1.6	1.7	1.6	1.7	1.7	1.7	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
3.0	0.1	1.7
11/26/07	11/4/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	677
possible hours	720
data capture	94.0%

Max 3 hr ave.	2.9	11/26/07 11:00
Max 24 hr ave.	2.4	11/28/07 9:00

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
ppb
O3

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	23.7	25.2	25.1	23.9	23.7	24.0	23.5	22.1	21.9	23.2	24.8	26.4	29.7	33.1	36.2	35.3	35.3	21.7	21.7	21.2	25.9	29.4	27.3		23	36.2	21.2	26.3
11/2/07	30.3	30.8	33.1	31.3	28.6	29.6	27.7	25.2	26.1	28.8	31.2	33.6	35.3	36.7	36.9	36.8	34.8	30.4	27.6	27.3	26.1	28.0	25.7		23	36.9	25.2	30.5
11/3/07	21.3	18.6	18.4	18.2	19.0	19.8	22.2	24.3	22.6	23.7	23.4	25.3	29.6	31.9	35.0	35.6	36.8	35.1	31.5	32.0	32.9	29.4	26.6		23	36.8	18.2	26.7
11/4/07	24.8	24.7	25.5	22.5	21.5	20.0	18.0	19.5	20.5	23.4	26.0	26.7	31.2	32.7	33.9	37.5	37.8	35.5	34.5	32.9	28.9	24.5	24.6		23	37.8	18.0	27.3
11/5/07	25.0	27.4	29.4	29.5	28.3	28.2	26.7	26.8	26.6	28.3	30.0	30.8	30.5	29.4	28.9	28.1	27.0	25.2	22.5	19.8	18.5	19.4	19.4		23	30.8	18.5	26.3
11/6/07	17.1		34.9	16.1	16.4	15.9	14.1	11.9	15.1	20.2	24.1	24.3	26.4	28.1	28.5	28.3	27.9	23.1	19.4	23.9	23.2	22.3	22.1		22	34.9	11.9	22.0
11/7/07	22.4	23.2	23.1	22.3	21.2	20.5	19.9	18.6	18.7	20.2	22.4	22.5	22.2	23.5	26.7	26.1	23.3	21.3	21.9	21.6	21.6	19.9	19.6		23	26.7	18.6	21.9
11/8/07	25.5	24.8	18.2	15.8	17.9	18.0	16.9	15.3	16.2	19.2	22.1	28.0	31.4	29.4	29.9	29.8	26.6	21.5	13.5	12.0	13.9	14.8	13.4		23	31.4	12.0	20.6
11/9/07	12.3	12.4	13.7	12.9	12.9	12.6	11.2	13.9	14.7	18.0	19.2	20.2	22.1	23.3	24.8	24.5	23.5	20.4	18.9	18.1	16.7	15.7	15.4		23	24.8	11.2	17.3
11/10/07	16.9	16.8	17.4	17.5	15.5	15.7	16.1	15.5	13.9	13.7	18.9	23.0	25.9	27.9	29.6	30.1	25.9	21.1	20.0	22.0	19.4	20.6	21.7		23	30.1	13.7	20.2
11/11/07	21.4	22.2	21.3	23.2	20.5	15.8	15.2	18.7	21.1	26.3	32.6	34.6	36.4	34.3	34.3	32.9	30.0	26.4	26.3	26.6	25.8	25.1	24.2		23	36.4	15.2	25.9
11/12/07	26.4	26.3	26.0	26.2	27.5	28.6	30.0	26.8	25.0	30.8	34.1	34.2	33.8	34.1	31.8		31.5	28.1	27.3	27.7	27.2	27.3	27.0		22	34.2	25.0	29.0
11/13/07	25.3		38.3	21.0	19.6	18.3	18.4	19.1	18.5	19.4	21.6	25.6	32.9	41.3	41.7	39.9	37.1	34.7	34.0	34.6	33.9	31.8	30.7		22	41.7	18.3	29.0
11/14/07	29.2	28.6	28.0	29.1	28.6	28.6	28.1	28.7	28.3	28.0	27.6	28.2	28.1	28.3	28.8	29.2	28.4	26.4	26.8	28.9	27.7	25.7	24.4		23	29.2	24.4	28.0
11/15/07	22.8	22.7	21.9	20.2	20.0	17.9	18.7	18.7	20.8	23.3	27.1	30.0	31.3	32.0	33.6	32.6	31.9	30.0	29.6	28.9	26.3	26.0	24.6		23	33.6	17.9	25.7
11/16/07	20.2	19.6	19.4	21.5	23.3	22.2	21.3	20.8	21.6	23.6	25.4	26.1	25.8	27.3	30.4	31.1	26.7	23.1	21.1	24.7	20.6	19.4	17.4		23	31.1	17.4	23.2
11/17/07	15.9	15.3	12.2	9.4	7.4	7.1	5.9	6.2	8.1	11.2	12.3	15.7	19.1	20.3	20.6	19.6	18.0	15.7	13.7	12.5	11.6	11.2	11.0		23	20.6	5.9	13.0
11/18/07	12.4	11.0	9.0	7.5	6.7	7.1	7.1	7.0	7.3	6.8	7.2	8.8	11.1	13.6	14.6	14.5	12.9	11.7	11.4	10.4	9.5	9.3	9.5		23	14.6	6.7	9.8
11/19/07	11.9	10.7	15.4	14.1	13.9	15.3	14.2	18.9	20.6	27.3	28.4	28.6	30.3	32.8	32.9	33.3	30.8	26.4	22.3	21.0	21.0	18.7	19.4		23	33.3	10.7	22.1
11/20/07	19.1		33.2	15.6	14.3	15.8	16.7	17.3	17.2	16.4	15.9	15.7	16.6	18.0	17.6	18.8	17.8	16.2	16.7	19.4	19.2	19.7	20.6		22	33.2	14.3	18.1
11/21/07	20.3	20.7	20.0	19.4	19.6	18.1	17.8	17.7	19.4	20.4	19.5	22.0	22.7	23.9	25.4	25.8	24.8	20.8	19.3	18.5	16.7	16.0	16.2		23	25.8	16.0	20.2
11/22/07	17.7	16.9	17.0	15.7	12.1	13.9	16.5	15.7	20.4	16.5	17.4	21.7	25.1	27.1	27.7	28.0	26.5	23.3	18.2	17.7	17.1	17.9	17.7		23	28.0	12.1	19.5
11/23/07	18.5	17.9	17.9	19.3	18.3	17.5	15.0	15.6	20.3	24.5	26.9	29.3	30.0	30.9	29.8	29.4	28.7	27.8	26.0	25.4	23.1	20.9	19.8		23	30.9	15.0	23.2
11/24/07	18.9	25.4	26.3	25.5	26.4	15.9	18.1	18.2	19.4	19.8	23.9	29.1	31.3	33.4	33.5	33.9	32.0	29.5	29.7	28.4	25.9	25.8	25.9		23	33.9	15.9	25.9
11/25/07	22.2	22.9	21.6	20.1	17.3	15.9	15.5	21.9	25.9	30.3	32.7	33.6	36.8	36.2	35.3	34.9	32.2	27.9	28.0	27.8	26.5	23.9	22.0		23	36.8	15.5	26.6
11/26/07	20.7	21.4	19.8	18.7	17.8	13.7	15.3	18.9	17.5	19.6	22.4	23.8	25.6	27.6	27.3	29.1	27.4	22.3	28.2	24.4	20.6	26.9	27.5		23	29.1	13.7	22.5
11/27/07	30.2		42.3	29.0	28.9	27.6	27.4	27.1	26.7	26.6	28.3	29.1	28.4	28.9	29.1	26.8	25.5	23.8	24.4	23.3	22.5	21.7	20.7		22	42.3	20.7	27.2
11/28/07	15.3	13.9	14.4	18.6	18.9	20.9	21.4	22.2	22.6	25.4	25.9	26.0	26.1	28.2	29.8	28.0	24.2	21.4	18.3	17.1	18.6	21.2	19.5		23	29.8	13.9	21.6
11/29/07	19.7	18.4	18.9	19.8	20.4	18.7	17.4	13.8	15.9	22.4	23.5	25.1	25.9	25.3	26.4	26.1	25.2	23.3	21.4	23.4	24.6	25.3	24.6		23	26.4	13.8	22.0
11/30/07	25.6	25.4	25.9	26.8	26.1	25.0	24.6	24.4	23.6	24.4	26.6	30.3	31.4	32.4	32.0	33.4	32.5	28.1	25.2	25.2	22.5	23.8	24.9		23	33.4	22.5	27.0
																									0			
hr max	30.3	30.8	42.3	31.3	28.9	29.6	30.0	28.7	28.3	30.8	34.1	34.6	36.8	41.3	41.7	39.9	37.8	35.5	34.5	34.6	33.9	31.8	30.7	0.0				
hr min	11.9	10.7	9.0	7.5	6.7	7.1	5.9	6.2	7.3	6.8	7.2	8.8	11.1	13.6	14.6	14.5	12.9	11.7	11.4	10.4	9.5	9.3	9.5	0.0				
average	21.1	20.9	22.9	20.4	19.8	18.9	18.7	19.0	19.9	22.1	24.0	25.9	27.8	29.1	29.8	29.6	28.1	24.7	23.3	23.2	22.3	22.1	21.4	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
42.3	5.9	23.3
11/27/07	11/17/07	

Validated by:	Roger L Thompson	Date:	1/3/08
Analyst:	Denise Hazelman	Date:	1/3/08

valid hours	685
possible hours	720
data capture	95.1%

Max 8 hr ave. 37.2 11/13/07 14:00

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
DegC
StnT

data
channel
DegC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	21	21	21	21	21	21	21	21	21	21	21	22	23	23	23	23	23	23	23	23	23	23	23	23	24	23.4	20.6	22.0
11/2/07	22	22	22	22	22	22	21	21	21	21	22	22	22	22	23	23	23	23	23	22	22	22	21	22	24	23.1	21.2	22.0
11/3/07	21	21	21	20	20	20	20	20	21	21	21	21	21	22	22	22	23	24	23	22	22	22	22	22	24	23.7	20.3	21.4
11/4/07	21	21	21	21	22	22	22	22	22	22	22	23	23	23	23	24	23	23	23	24	24	24	23	23	24	23.7	21.2	22.6
11/5/07	22	22	22	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	20	20	20	24	22.4	20.3	21.0
11/6/07	20	20	20	20	20	20	20	20	20	20	21	21	21	21	21	21	22	21	21	21	21	20	20	20	24	21.5	19.6	20.5
11/7/07	20	20	21	21	21	21	20	21	21	21	21	21	22	22	22	23	23	22	22	22	22	22	22	22	24	22.7	20.4	21.3
11/8/07	22	22	22	21	21	22	22	21	21	21	22	22	22	22	23	23	24	23	23	22	22	21	21	21	24	23.7	20.9	21.9
11/9/07	21	21	21	21	21	21	21	21	21	21	21	22	22	22	22	22	22	22	22	22	22	21	21	21	24	22.4	20.7	21.4
11/10/07	21	21	21	21	21	21	21	21	21	22	22	22	23	23	23	23	23	24	24	23	23	23	23	22	24	23.7	20.9	22.2
11/11/07	22	22	23	22	22	22	22	22	22	23	23	23	23	24	24	24	25	24	24	24	23	23	23	23	24	24.5	22.3	23.1
11/12/07	23	23	22	22	22	22	22	22	22	23	24	24	24	24	23	23	23	23	23	22	22	22	22	22	24	24.1	21.9	22.7
11/13/07	22	22	23	23	22	22	22	22	22	22	22	23	23	23	23	24	24	23	23	23	22	22	22	22	24	23.6	21.9	22.6
11/14/07	22	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	24	21.7	20.5	20.9
11/15/07	21	20	20	20	20	20	20	20	19	20	20	21	21	21	22	22	22	22	22	22	21	21	21	22	24	21.9	19.4	20.8
11/16/07	21	21	21	21	21	21	21	21	21	22	22	22	23	23	23	23	23	23	24	23	23	23	23	23	24	23.5	20.8	22.2
11/17/07	23	22	22	22	21	21	21	21	21	21	21	21	21	22	22	22	22	22	22	21	21	21	21	21	24	22.6	20.6	21.3
11/18/07	21	21	21	21	21	21	21	20	21	21	21	21	21	22	22	22	22	22	22	22	22	22	22	22	24	22.3	20.4	21.2
11/19/07	22	22	21	21	21	21	21	21	21	21	22	22	22	23	23	23	24	23	23	22	22	21	21	21	24	23.5	20.8	21.8
11/20/07	21	21	22	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	24	21.9	20.6	21.0
11/21/07	21	21	20	20	20	20	20	20	20	20	20	20	21	21	21	21	20	20	20	20	20	20	20	20	24	20.7	19.6	20.3
11/22/07	20	20	20	20	19	19	19	19	19	19	20	20	20	20	20	20	20	20	20	20	20	19	19	20	24	20.2	19.2	19.7
11/23/07	19	19	19	19	19	19	19	19	19	19	20	20	20	20	20	20	20	20	20	20	20	20	20	21	24	20.7	19.1	19.8
11/24/07	21	20	20	20	20	20	20	20	20	20	19	20	20	20	21	21	21	21	21	20	20	20	20	20	24	21.0	19.1	20.2
11/25/07	20	20	20	20	20	20	20	20	20	20	20	21	21	21	22	22	22	22	21	21	21	21	20	21	24	21.9	19.5	20.5
11/26/07	20	20	20	20	20	19	19	19	19	20	20	20	20	21	21	21	21	21	21	21	20	20	19	20	24	21.0	19.3	20.0
11/27/07	19	19	20	19	18	18	18	18	18	18	17	18	18	18	18	18	18	18	18	18	18	18	18	19	24	19.5	17.4	18.2
11/28/07	19	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	19	20	21	24	21.3	17.6	18.3
11/29/07	21	22	22	21	21	21	21	21	21	21	21	21	22	22	22	22	22	21	21	22	21	21	21	21	24	21.6	20.6	21.3
11/30/07	21	21	20	20	19	19	19	18	18	18	19	20	21	21	21	21	22	21	21	21	21	22	22	22	24	21.9	18.0	20.3
																									0			

hr max	23.0	22.6	23.0	22.5	22.4	22.3	22.3	22.3	22.4	22.7	23.8	24.1	24.1	23.7	24.1	24.3	24.5	24.4	24.3	23.6	23.7	23.7	23.3	23.1
hr min	18.5	18.3	18.1	18.0	17.9	17.9	17.8	17.7	17.6	17.5	17.4	17.5	17.6	17.8	17.9	17.9	18.0	18.0	18.0	18.1	18.1	18.2	18.3	18.8
average	21.0	20.8	20.8	20.7	20.6	20.5	20.4	20.3	20.4	20.5	20.8	21.1	21.3	21.5	21.7	21.8	22.0	21.9	21.7	21.5	21.3	21.1	21.0	21.2

monthly	monthly	monthly
max hr	min hr	ave hr
24.5	17.4	21.1
11/11/07	11/27/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
w/m2
solar

data
channel
w/m2

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	24 hr	total
11/1/07	0	0	0	0	0	0	0	26	115	240	365	447	477	444	371	251	251	6	0	0	0	0	0	0	24	477	2992	2992
11/2/07	0	0	0	0	0	0	0	24	143	281	392	456	476	445	372	255	114	12	0	0	0	0	0	0	24	476	2970	2970
11/3/07	0	0	0	0	0	0	0	6	42	81	91	212	312	178	209	226	91	10	0	0	0	0	0	0	24	312	1457	1457
11/4/07	0	0	0	0	0	0	0	14	110	248	336	383	429	390	295	239	49	6	0	0	0	0	0	0	24	429	2498	2498
11/5/07	0	0	0	0	0	0	0	20	133	271	372	435	419	270	288	202	105	8	0	0	0	0	0	0	24	435	2522	2522
11/6/07	0	0	0	0	0	0	0	34	193	324	393	433	453	389	254	170	97	6	0	0	0	0	0	0	24	453	2747	2747
11/7/07	0	0	0	0	0	0	0	8	77	115	127	209	186	327	254	133	40	4	0	0	0	0	0	0	24	327	1481	1481
11/8/07	0	0	0	0	0	0	0	0	47	78	158	393	428	397	323	214	48	0	0	0	0	0	0	0	24	428	2087	2087
11/9/07	0	0	0	0	0	0	0	15	104	150	210	191	191	311	306	171	72	0	0	0	0	0	0	0	24	311	1720	1720
11/10/07	0	0	0	0	0	0	0	6	56	128	326	393	415	388	320	204	81	0	0	0	0	0	0	0	24	415	2316	2316
11/11/07	0	0	0	0	0	0	0	8	92	238	270	396	378	247	195	131	47	0	0	0	0	0	0	0	24	396	2001	2001
11/12/07	0	0	0	0	0	0	0	5	100	235	339	399	423	397	325	213	75	0	0	0	0	0	0	0	24	423	2512	2512
11/13/07	0	0	0	0	0	0	0	0	55	166	209	194	188	318	175	57	13	0	0	0	0	0	0	0	24	318	1375	1375
11/14/07	0	0	0	0	0	0	0	8	92	148	120	138	138	156	121	129	74	0	0	0	0	0	0	0	24	156	1122	1122
11/15/07	0	0	0	0	0	0	0	9	110	195	311	384	194	200	273	156	54	0	0	0	0	0	0	0	24	384	1885	1885
11/16/07	0	0	0	0	0	0	0	5	75	113	177	181	153	264	276	91	28	0	0	0	0	0	0	0	24	276	1362	1362
11/17/07	0	0	0	0	0	0	0	6	76	91	129	335	388	348	141	71	42	0	0	0	0	0	0	0	24	388	1626	1626
11/18/07	0	0	0	0	0	0	0	0	46	82	114	301	368	355	188	142	64	0	0	0	0	0	0	0	24	368	1660	1660
11/19/07	0	0	0	0	0	0	0	6	79	198	298	355	378	356	287	182	64	0	0	0	0	0	0	0	24	378	2202	2202
11/20/07	0	0	0	0	0	0	0	0	16	76	177	351	327	188	103	104	25	0	0	0	0	0	0	0	24	351	1366	1366
11/21/07	0	0	0	0	0	0	0	0	31	179	280	341	364	343	245	136	36	0	0	0	0	0	0	0	24	364	1953	1953
11/22/07	0	0	0	0	0	0	0	0	42	99	243	349	274	202	205	188	61	0	0	0	0	0	0	0	24	349	1663	1663
11/23/07	0	0	0	0	0	0	0	0	47	115	278	334	358	298	190	86	11	0	0	0	0	0	0	0	24	358	1717	1717
11/24/07	0	0	0	0	0	0	0	5	121	266	358	351	367	346	278	172	57	0	0	0	0	0	0	0	24	367	2321	2321
11/25/07	0	0	0	0	0	0	0	0	67	117	126	219	388	357	253	182	41	0	0	0	0	0	0	0	24	388	1751	1751
11/26/07	0	0	0	0	0	0	0	0	107	254	337	350	360	331	242	154	33	0	0	0	0	0	0	0	24	360	2167	2167
11/27/07	0	0	0	0	0	0	0	0	39	94	180	328	274	319	200	91	20	0	0	0	0	0	0	0	24	328	1544	1544
11/28/07	0	0	0	0	0	0	0	0	41	173	275	337	361	340	273	157	50	0	0	0	0	0	0	0	24	361	2008	2008
11/29/07	0	0	0	0	0	0	0	0	35	86	126	126	140	104	125	85	42	0	0	0	0	0	0	0	24	140	869	869
11/30/07	0	0	0	0	0	0	0	0	55	164	280	349	355	323	101	122	54	0	0	0	0	0	0	0	24	355	1803	1803
																									0		0	0
hr max	0	0	0	0	0	0	0	34	193	324	393	456	477	445	372	255	251	12	0	0	0	0	0	0		monthly	monthly	monthly
hr min	0	0	0	0	0	0	0	0	16	76	91	126	138	104	101	57	11	0	0	0	0	0	0	0		max hr	Max24hr	Total
average	0	0	0	0	0	0	0	7	78	167	246	322	332	311	240	157	61	2	0	0	0	0	0	0		477	2992	57696
																										11/1/07	11/1/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
mmhg
BP

data
channel
mmhg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	710	710	709	709	708	707	707	707	706	706	705	705	704	703	703	703	703	703	703	703	704	704	705	705	24	710	702.6	705.4
11/2/07	706	707	707	708	709	710	711	711	712	712	712	712	712	712	712	712	712	712	712	713	713	713	712	712	24	713	706.0	710.9
11/3/07	712	712	711	711	710	709	708	707	707	706	706	706	706	706	706	706	706	707	708	708	707	707	707	707	24	712	705.7	707.7
11/4/07	707	706	706	706	705	704	704	703	702	702	702	701	701	700	700	700	700	700	701	701	702	703	704	705	24	707	699.5	702.6
11/5/07	707	707	708	709	709	710	710	711	712	712	712	712	713	713	713	714	714	715	715	716	716	716	716	716	24	716	706.6	712.3
11/6/07	717	717	717	716	716	717	717	717	717	717	717	717	716	715	715	714	714	714	713	713	712	711	711	710	24	717	709.8	714.9
11/7/07	709	708	707	706	706	705	705	704	704	704	704	704	704	704	704	705	705	705	706	706	706	706	706	706	24	709	704.1	705.4
11/8/07	706	706	706	706	706	706	706	705	705	705	705	705	704	704	704	705	705	706	706	707	707	708	708	708	24	708	704.2	705.8
11/9/07	708	708	708	708	708	708	709	709	710	710	710	710	710	709	709	708	708	708	708	708	707	707	707	706	24	710	705.9	708.3
11/10/07	705	704	703	702	702	701	701	701	701	701	701	701	700	700	699	699	699	699	699	699	698	698	698	698	24	705	697.6	700.4
11/11/07	697	697	696	696	696	696	697	698	699	700	701	701	701	703	703	704	704	705	705	706	706	707	708	708	24	708	695.5	701.3
11/12/07	708	709	710	710	710	711	711	712	712	712	712	712	711	710	709	709	708	707	706	705	704	703	703	701	24	712	701.3	708.5
11/13/07	700	699	698	697	696	696	696	695	695	695	695	696	697	698	699	699	699	700	701	701	702	702	702	702	24	702	695.2	698.3
11/14/07	703	703	703	703	704	704	705	706	706	707	708	709	709	710	710	711	711	712	712	713	713	713	713	713	24	713	702.5	708.3
11/15/07	713	713	713	713	713	712	712	712	711	711	710	710	709	707	706	705	705	704	703	703	702	701	701	700	24	713	700.4	707.9
11/16/07	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	701	701	701	702	701	702	702	24	702	699.8	700.5
11/17/07	702	702	702	703	703	704	704	704	705	706	706	707	706	706	706	707	707	707	707	707	707	707	707	707	24	707	702.1	705.4
11/18/07	707	706	706	706	705	705	705	704	704	705	704	704	703	703	702	702	702	702	702	702	702	702	702	702	24	707	701.6	703.6
11/19/07	701	701	701	701	702	702	702	703	703	704	704	704	704	703	703	703	704	704	704	705	706	707	707	707	24	707	701.2	703.6
11/20/07	707	707	707	707	707	708	708	709	710	710	711	711	711	711	711	711	711	712	712	713	713	713	714	714	24	714	706.5	710.2
11/21/07	714	715	715	715	715	715	715	715	716	716	716	716	716	716	716	716	716	716	716	717	717	717	717	717	24	717	714.0	715.7
11/22/07	717	717	717	717	716	716	716	717	717	717	717	717	716	716	715	715	715	715	715	715	714	714	714	713	24	717	713.3	715.6
11/23/07	713	712	712	711	710	710	710	709	709	709	709	709	708	708	707	707	707	708	708	708	708	709	708	708	24	713	707.2	709.1
11/24/07	709	708	708	708	708	708	707	707	707	707	706	706	706	705	704	704	704	703	703	703	702	702	702	701	24	709	700.9	705.3
11/25/07	701	700	700	700	700	700	699	700	700	701	701	702	702	702	703	704	704	705	705	706	706	707	707	708	24	708	699.4	702.5
11/26/07	708	709	709	709	709	710	710	710	710	710	711	711	710	710	709	709	708	708	708	709	710	712	712	713	24	713	707.9	709.7
11/27/07	713	713	713	713	713	713	713	712	711	711	710	708	707	706	705	704	704	704	704	704	704	704	704	704	24	713	703.6	708.1
11/28/07	704	704	704	704	705	705	706	707	707	708	708	709	709	709	709	709	709	709	709	709	709	709	709	709	24	709	703.8	707.4
11/29/07	709	709	710	710	710	710	710	710	710	710	709	710	709	709	709	709	710	710	711	711	711	712	713	713	24	713	708.7	710.2
11/30/07	713	714	715	715	715	715	715	715	715	715	715	715	715	714	713	712	712	711	711	711	711	710	709	708	24	715	708.3	713.1
																									0			
hr max	716.7	716.6	716.6	716.5	716.4	716.5	716.8	717.0	717.2	717.1	717.0	716.6	716.0	715.6	715.5	715.7	715.9	716.2	716.4	716.6	716.7	716.8	716.8	716.8				
hr min	697.1	696.5	696.3	695.6	695.5	695.8	695.6	695.4	695.2	695.2	695.4	696.0	696.6	697.9	698.5	698.7	699.1	698.7	698.7	698.5	698.3	698.2	698.0	697.6				
average	707.5	707.4	707.3	707.2	707.1	707.2	707.2	707.3	707.5	707.6	707.7	707.6	707.2	707.0	706.8	706.7	706.9	707.0	707.2	707.3	707.4	707.5	707.5	707.4				

monthly	monthly	monthly
max hr	min hr	ave hr
717	695.2	707.3
11/6/07	11/13/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
%
RH

data
channel
%

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
11/1/07	66.8	63.0	64.9	68.4	69.3	65.8	66.1	68.7	65.2	56.5	47.1	38.2	32.3	29.7	26.3	27.0	27.0	47.1	53.3	57.3	45.4	39.0	43.1	43.1	24	69.3	26.3	50.4
11/2/07	46.3	54.3	50.4	55.6	65.5	74.3	81.4	83.9	75.6	62.1	46.8	35.1	29.0	24.6	23.8	21.6	22.6	30.8	40.4	44.4	47.9	46.4	52.7	55.2	24	83.9	21.6	48.8
11/3/07	65.3	72.8	76.4	80.2	78.8	73.8	67.6	61.2	64.5	62.1	60.0	51.1	38.8	40.1	37.8	29.3	28.1	32.2	43.6	44.5	41.8	45.3	55.4	62.1	24	80.2	28.1	54.7
11/4/07	65.7	72.6	65.3	65.1	65.7	66.5	69.0	67.5	62.5	53.4	44.0	39.3	31.6	28.1	26.8	25.1	28.3	32.9	37.2	42.1	50.2	53.3	54.4	64.0	24	72.6	25.1	50.4
11/5/07	67.7	66.1	66.2	66.7	67.7	63.4	68.6	66.5	64.5	57.1	48.7	44.2	43.7	46.5	46.0	46.6	49.3	55.8	62.3	69.3	74.1	72.9	74.7	78.4	24	78.4	43.7	61.1
11/6/07	84.5	88.2	88.0	88.5	89.9	89.4	91.2	91.6	84.8	75.3	62.5	54.9	46.1	38.7	37.0	40.2	42.9	60.2	72.7	64.9	67.3	68.0	67.5	67.9	24	91.6	37.0	69.3
11/7/07	65.6	63.7	64.8	68.2	70.9	72.9	73.6	74.2	70.6	60.6	52.0	47.3	44.8	41.4	38.9	41.3	48.6	56.9	62.8	68.0	67.2	72.5	75.2	69.3	24	75.2	38.9	61.3
11/8/07	61.3	62.8	73.4	78.5	75.1	73.0	80.5	86.3	81.2	72.0	62.8	44.9	37.3	39.3	38.6	39.9	50.6	63.6	81.1	87.0	87.9	83.7	86.4	88.3	24	88.3	37.3	68.1
11/9/07	87.6	85.0	83.0	84.6	84.0	86.3	91.5	89.1	84.1	76.4	70.6	67.9	62.3	57.2	50.5	52.9	57.0	66.7	74.7	78.9	81.0	84.3	86.6	85.6	24	91.5	50.5	76.2
11/10/07	80.6	78.1	78.0	77.3	80.9	81.9	82.3	82.3	85.4	77.0	63.9	54.8	49.4	43.6	42.1	41.7	49.9	69.5	75.5	74.7	78.4	80.3	77.8	78.7	24	85.4	41.7	70.2
11/11/07	79.0	75.0	76.6	70.0	72.5	82.1	83.4	76.8	68.1	54.5	35.5	26.0	23.7	30.2	30.4	32.1	36.7	45.5	41.8	41.6	43.6	43.9	44.2	43.7	24	83.4	23.7	52.4
11/12/07	43.0	43.1	42.5	44.9	43.1	59.2	76.1	85.9	80.1	59.7	52.5	50.6	49.4	47.9	46.0	45.4	49.9	59.0	58.3	53.2	53.2	53.1	53.2	54.0	24	85.9	42.5	54.3
11/13/07	53.9	56.7	59.4	62.7	67.1	73.1	73.4	72.2	70.8	60.5	48.0	35.4	38.9	48.5	40.3	37.7	35.7	34.4	34.3	41.4	48.4	48.1	46.5	38.6	24	73.4	34.3	51.1
11/14/07	35.8	36.0	40.2	41.7	42.6	42.6	44.9	46.4	48.2	49.3	50.8	52.2	52.8	51.6	52.1	50.3	48.5	51.6	53.0	50.0	54.4	61.5	65.3	69.5	24	69.5	35.8	49.6
11/15/07	69.1	68.2	70.0	74.0	75.2	79.3	78.3	78.5	67.3	59.5	45.2	33.6	31.6	29.9	25.7	27.4	30.3	36.8	38.2	40.0	47.7	49.1	50.6	52.0	24	79.3	25.7	52.4
11/16/07	56.3	61.0	61.4	61.6	50.0	43.9	38.4	37.6	35.2	33.0	33.8	34.2	36.4	34.7	33.1	38.4	43.2	49.3	53.4	51.8	57.6	62.7	58.4	56.3	24	62.7	33.0	46.7
11/17/07	65.7	69.0	76.1	82.1	86.9	85.8	88.8	86.9	88.3	92.2	88.1	76.1	67.0	66.0	67.0	69.1	74.6	86.0	94.3	95.6	96.5	97.0	97.0	95.2	24	97.0	65.7	83.0
11/18/07	95.1	95.4	96.4	95.8	95.3	96.8	97.4	97.8	97.3	95.1	91.8	83.4	73.1	64.7	63.9	65.0	69.1	78.6	83.4	84.6	88.7	89.5	89.7	90.8	24	97.8	63.9	86.6
11/19/07	89.9	91.0	83.6	87.1	90.2	90.4	92.3	90.5	82.5	70.5	60.1	51.9	44.4	37.5	35.2	33.7	36.9	47.7	58.6	62.9	63.8	71.9	71.0	71.0	24	92.3	33.7	67.3
11/20/07	70.9	73.4	76.1	80.1	84.9	83.9	80.5	79.3	91.1	97.1	93.3	80.5	73.0	69.3	69.0	65.4	65.0	70.8	70.1	66.1	65.3	65.4	65.8	64.0	24	97.1	64.0	75.0
11/21/07	65.8	67.0	65.6	66.3	67.2	71.0	73.1	74.1	71.6	67.2	69.0	65.4	62.8	59.3	58.0	59.1	64.1	74.4	80.4	83.5	87.7	89.9	89.8	90.9	24	90.9	58.0	71.8
11/22/07	90.2	89.9	89.5	89.4	89.5	89.6	89.6	91.1	90.1	91.0	86.8	74.9	66.3	60.7	56.7	54.6	59.4	69.3	78.6	82.4	85.2	85.7	86.5	86.2	24	91.1	54.6	80.6
11/23/07	87.3	88.3	88.2	86.1	86.9	86.9	89.3	89.9	83.3	77.0	64.7	53.7	50.8	50.1	57.6	64.8	63.8	65.5	70.8	72.8	77.4	80.8	81.3	81.1	24	89.9	50.1	74.9
11/24/07	81.6	81.4	82.6	86.8	90.1	93.0	93.7	93.7	90.5	87.2	76.1	59.8	52.1	45.0	42.3	40.9	45.1	53.5	54.3	57.2	63.2	66.2	67.2	70.1	24	93.7	40.9	69.7
11/25/07	73.1	68.1	71.2	75.1	80.9	83.6	83.8	67.4	56.4	46.6	41.9	39.6	33.8	42.7	47.1	47.3	51.7	64.8	69.6	70.8	76.4	80.6	84.3	87.5	24	87.5	33.8	64.3
11/26/07	87.0	86.8	89.4	90.4	90.3	92.9	94.8	92.7	90.5	85.4	76.4	69.1	60.4	53.4	49.8	47.8	51.9	62.8	54.6	62.7	79.6	77.1	71.1	56.9	24	94.8	47.8	73.9
11/27/07	57.5	58.8	63.9	61.8	63.3	66.9	66.4	68.1	69.7	69.3	61.1	50.0	47.2	41.0	40.4	45.1	44.3	48.5	46.8	47.2	47.9	48.6	50.7	56.3	24	69.7	40.4	55.0
11/28/07	61.9	66.8	67.3	71.4	77.4	72.8	73.4	70.8	68.7	57.8	53.7	47.3	44.4	43.2	42.1	44.7	49.9	57.2	66.4	73.4	79.7	80.5	80.9	79.8	24	80.9	42.1	63.8
11/29/07	80.5	75.6	75.6	75.9	75.7	78.7	81.9	85.3	82.5	77.5	69.6	59.8	57.8	73.5	82.7	82.3	79.3	80.2	83.3	72.6	70.4	67.4	71.3	72.8	24	85.3	57.8	75.5
11/30/07	72.3	74.1	75.0	72.6	73.6	76.3	76.6	75.9	75.1	69.9	62.4	48.8	43.1	37.8	37.7	31.5	34.0	51.1	61.5	58.6	65.1	66.0	61.5	56.0	24	76.6	31.5	60.7
																									0			
hr max	95.1	95.4	96.4	95.8	95.3	96.8	97.4	97.8	97.3	97.1	93.3	83.4	73.1	73.5	82.7	82.3	79.3	86.0	94.3	95.6	96.5	97.0	97.0	95.2				
hr min	35.8	36.0	40.2	41.7	42.6	42.6	38.4	37.6	35.2	33.0	33.8	26.0	23.7	24.6	23.8	21.6	22.6	30.8	34.3	40.0	41.8	39.0	43.1	38.6				
average	70.2	71.1	72.0	73.6	75.0	76.5	78.3	77.7	74.9	68.4	60.6	52.3	47.5	45.9	44.8	44.9	47.9	56.8	61.8	63.3	66.4	67.7	68.7	68.8				

monthly	monthly	monthly
max hr	min hr	ave hr
97.8	21.6	64.0
11/18/07	11/2/07	

Validated by: *Roger L Thompson* Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
November-07
in
Prcp

data channel in

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr		daily total
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
11/1/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/2/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/3/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/4/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/5/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/6/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/7/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/8/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/9/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/10/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/11/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/12/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/13/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/14/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/15/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/16/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/17/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/18/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/19/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/20/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/21/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/22/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/23/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/24/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/25/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/26/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/27/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/28/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/29/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
11/30/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
																									0			

hr max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hr min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

monthly max hr	monthly 24h max	monthly TOTAL
0.00	0.00	0.00
11/1/07	11/1/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
mps
10WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
12/1/07	5.9	6.5	6.8	6.9	8.0	6.5	6.2	6.0	5.9	5.0	4.3	5.4	4.7	4.5	4.7	4.5	4.5	4.5	4.4	4.7	5.3	6.6	6.8	5.1	24	8.0	4.3	5.6
12/2/07	6.5	7.6	8.1	8.3	6.5	6.2	7.3	7.1	7.4	7.2	7.2	8.1	8.0	6.5	5.9	4.2	2.0	4.2	3.8	4.9	5.7	6.7	7.3	7.5	24	8.3	2.0	6.4
12/3/07	6.8	7.0	6.6	5.1	4.2	3.8	5.7	3.6	4.4	3.8	4.6	4.2	4.5	4.5	5.0	5.5	5.2	5.5	3.7	3.5	2.3	1.5	2.1	3.0	24	7.0	1.5	4.4
12/4/07	3.4	2.5	1.3	2.0	3.5	3.4	2.9	3.1	4.7	6.1															10	6.1	1.3	3.3
12/5/07																									0			
12/6/07																									0			
12/7/07													6.2	6.1	5.7	3.5	2.7	4.1	4.9	3.8	1.7	2.9	3.4	3.6	12	6.2	1.7	4.1
12/8/07	2.7	2.5	1.8	1.0	2.0	2.8	2.3	2.0	1.2	1.9	1.5	1.3	1.5	1.8	2.3	2.8	1.5	1.2	1.0	1.2	0.6	2.4	3.0	3.4	24	3.4	0.6	1.9
12/9/07	3.1	3.6	4.5	4.1	3.7	3.4	3.3	3.6	3.7	3.6	5.2	5.7	5.8	6.1	6.8	6.2	3.9	4.0	4.7	4.4	4.3	4.3	4.4	3.3	24	6.8	3.1	4.4
12/10/07	3.4	3.2	2.9	2.2	2.4	2.2	3.6	3.9	3.8	3.5	4.3	5.5	5.0	5.6	4.7	4.4	4.3	5.1	5.4	5.6	6.9	6.8	4.4	2.8	24	6.9	2.2	4.2
12/11/07	4.0	6.4	5.3	5.9	5.0	4.5	5.1	5.4	3.2	5.7	4.4	4.8	5.7	6.7	5.5	2.4	1.6	1.4	2.3	2.9	4.0	4.4	4.5	4.7	24	6.7	1.4	4.4
12/12/07	4.4	4.8	4.3	4.0	4.2	4.9	4.8	4.6	4.5	4.7	6.1	7.8	7.0	7.5	7.1	6.8	6.2	6.2	6.1	5.1	5.5	5.5	6.8	5.3	24	7.8	4.0	5.6
12/13/07	6.2	6.2	9.1	9.2	9.6	8.3	9.9	11.1	10.0	11.4	13.0	14.4	13.3	9.3	9.2	8.6	7.9	4.4	3.7	2.4	2.7	3.2	3.1	2.5	24	14.4	2.4	7.9
12/14/07	2.5	2.7	3.4	2.8	3.2	2.4	2.5	2.1	2.5	2.7	3.2	4.0	4.4	4.7	5.6						4.9	4.5	4.6	4.7	19	5.6	2.1	3.5
12/15/07	4.9	4.5	4.3	4.6	3.9	3.0	2.4	1.9	2.1	2.3	1.9	2.2	3.0	3.8	3.5	2.5	1.7	2.1	3.5	3.8	4.3	4.6	5.0	5.3	24	5.3	1.7	3.4
12/16/07	5.3	5.1	4.8	4.4	5.1	5.4	5.3	5.4	4.7	4.5	5.1	4.6	4.4	5.3	4.0	4.6	4.3	5.1	5.1	5.6	5.8	5.6	5.7	5.9	24	5.9	4.0	5.0
12/17/07	6.2	5.8	6.0	5.4	5.3	5.7	5.7	5.7	5.7	3.3	4.2	3.5	4.1	4.0	2.9	2.5	2.0	1.2	1.4	0.9	2.3	4.5	5.3	3.9	24	6.2	0.9	4.1
12/18/07	4.0	4.4	3.0	3.2	6.9	6.6	6.2	6.7	8.3									3.7	4.4	4.9	5.1	4.7	5.0	4.7	16	8.3	3.0	5.1
12/19/07	5.7	5.3	5.2	5.6	5.3	3.8	3.9	4.4	5.7	6.7	7.0	5.3	5.5	4.6	3.8	3.7	2.5	3.2	2.8	4.5	4.9	5.1	6.1	5.6	24	7.0	2.5	4.8
12/20/07	5.7	5.1	5.4	4.9	3.6	3.6	2.9	3.9	3.5	5.3	4.7	5.0	5.6	5.3	5.4	4.6	3.7	3.5	3.7	3.4	2.0	1.3	1.7	3.6	24	5.7	1.3	4.1
12/21/07	1.7	0.8	1.5	3.1	1.7	1.9	2.0	2.2	1.8	1.5	3.8	5.6	5.2	7.1	9.0	9.6	11.7	12.9	12.9	13.2	12.7	11.9	14.5	14.3	24	14.5	0.8	6.8
12/22/07	12.1	11.2	11.7	10.5	8.4	5.7	3.7	3.3	4.0	4.0	7.7	9.6	10.9	11.5	10.2	10.2	9.7	7.3	8.3	8.3	6.6	7.2	8.8	8.4	24	12.1	3.3	8.3
12/23/07	9.6	10.0	10.5	11.1	9.1	8.2	7.1	5.1	7.1	10.2	10.2	9.5	9.3	9.8	9.4	7.7	7.5	7.1	6.7	6.3	5.1	4.6	4.4	5.1	24	11.1	4.4	7.9
12/24/07	4.5	5.0	5.0	3.5	3.0	4.6	5.5	5.4	5.4	4.6	5.4	5.9	6.8	6.2	5.6	6.1	6.0	6.3	4.7	3.7	2.4	1.6	2.1	4.9	24	6.8	1.6	4.8
12/25/07	6.7	6.3	6.6	6.2	5.7	6.5	5.9	4.8	4.6	5.3	5.1	6.3	6.6	5.8	5.1	3.9	2.1	1.5	2.9	2.0	3.1	2.9	2.6	2.7	24	6.7	1.5	4.6
12/26/07	3.4	3.7	2.9	3.1	4.8	4.6	4.0	2.9	3.5	2.0	1.0	1.7	1.4	1.7	1.1	2.3	2.5	3.3	2.3	2.5	2.5	2.5	2.5	2.5	24	4.8	1.0	2.7
12/27/07	2.1	2.2	2.5	2.1	2.0	2.0	2.1	1.8	2.0	1.7	1.7	1.6	1.4	1.0	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	14	2.5	1.0	1.9
12/28/07	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	0			
12/29/07	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	1.8	4.0	5.3	5.4	5.0	5.5	5.6	7	5.6	1.8	4.7
12/30/07	5.4	4.9	5.1	4.8	4.4	4.5	4.7	5.1	5.1	3.8	2.6	3.3	2.3	3.3	3.7	2.9	2.1	2.1	1.6	1.8	1.5	2.1	2.4	1.0	24	5.4	1.0	3.4
12/31/07	1.0	2.3	3.7	4.6	4.8	5.0	3.8	6.2	7.9	8.8	10.2	8.8	7.2	8.4	9.7	8.6	9.5	7.9	7.3	6.4	6.0	6.5	7.9	8.9	24	10.2	1.0	6.7
hr max	12.1	11.2	11.7	11.1	9.6	8.3	9.9	11.1	10.0	11.4	13.0	14.4	13.3	11.5	10.2	10.2	11.7	12.9	12.9	13.2	12.7	11.9	14.5	14.3				
hr min	1.0	0.8	1.3	1.0	1.7	1.9	2.0	1.8	1.2	1.5	1.0	1.3	1.4	1.0	1.1	2.3	1.5	1.2	1.0	0.9	0.6	1.3	1.7	1.0				
average	4.9	5.0	5.1	4.9	4.9	4.6	4.6	4.5	4.7	4.8	5.2	5.6	5.6	5.6	5.7	5.1	4.6	4.4	4.5	4.4	4.4	4.6	5.0	4.9				

monthly max hr	monthly min hr	monthly ave hr
14.5	0.6	4.9
12/21/07	12/8/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	606
possible hours	744
data capture	81.5%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
mps
50WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
12/1/07	8.4	8.9	9.1	9.1	10.4	8.5	8.2	8.0	7.7	6.5	5.6	6.6	5.7	5.0	6.1	6.0	6.0	5.9	5.7	5.6	6.4	7.5	8.2	6.3	24	10.4	5.0	7.1
12/2/07	8.5	8.9	9.0	10.1	8.8	9.2	10.2	10.1	11.0	10.1	8.6	9.1	8.6	7.0	6.6	5.7	3.4	5.0	5.7	8.6	9.7	11.3	13.2	14.4	24	14.4	3.4	8.9
12/3/07	12.4	12.7	12.3	10.0	8.9	9.4	11.8	9.2	8.3	7.1	8.0	7.3	7.8	8.1	8.4	8.7	7.0	7.4	5.9	5.9	5.3	2.6	1.2	4.1	24	12.7	1.2	7.9
12/4/07	5.1	4.4	4.6	5.2	7.1	5.3	4.0	6.5	8.3	9.7															10	9.7	4.0	6.0
12/5/07																									0			
12/6/07																									0			
12/7/07													6.8	6.8	6.7	4.1	4.6	6.2	7.4	6.5	7.3	7.0	6.0	6.0	12	7.4	4.1	6.3
12/8/07	6.2	6.1	3.8	1.5	2.6	3.4	3.1	3.1	1.6	2.1	1.5	1.5	1.5	2.0	2.6	3.1	1.9	1.8	1.6	1.9	1.5	2.0	3.7	4.3	24	6.2	1.5	2.7
12/9/07	3.8	4.6	5.7	6.6	5.6	6.1	5.6	6.6	6.6	4.8	6.1	7.0	6.8	7.4	8.1	7.9	6.0	8.0	8.8	8.9	9.6	9.0	9.6	8.2	24	9.6	3.8	7.0
12/10/07	8.3	8.2	6.4	4.9	5.4	6.1	8.4	7.3	7.6	7.8	7.4	6.7	6.0	6.4	5.5	6.0	7.3	9.5	9.6	9.6	11.5	10.5	8.0	6.0	24	11.5	4.9	7.5
12/11/07	6.0	8.2	7.2	7.7	6.7	6.3	8.1	8.4	7.1	8.3	5.4	5.4	6.4	7.6	6.2	3.2	1.9	1.4	2.3	3.0	5.1	6.8	7.9	7.6	24	8.4	1.4	6.0
12/12/07	8.3	9.4	8.9	9.3	9.3	10.5	10.6	10.2	9.6	9.3	9.3	9.4	8.4	9.2	8.8	8.7	10.3	11.0	10.9	10.5	9.9	9.0	11.0	10.9	24	11.0	8.3	9.7
12/13/07	10.9	10.1	13.4	13.1	13.3	11.7	13.1	14.7	13.5	14.5	15.4	16.8	15.6	10.8	10.9	10.3	10.2	6.4	5.6	4.8	4.6	5.1	5.5	4.2	24	16.8	4.2	10.6
12/14/07	4.9	5.1	4.4	3.5	3.5	2.6	2.8	3.0	4.0	3.1	3.4	4.5	4.9	4.8	6.6	5.9	5.3	3.9	6.2	8.0	8.6	7.7	7.4	6.5	24	8.6	2.6	5.0
12/15/07	6.4	6.3	5.5	5.1	4.6	3.9	3.2	2.8	2.4	3.2	2.8	2.6	3.3	4.4	3.9	2.8	2.1	2.4	3.8	4.0	5.0	6.5	6.0	5.8	24	6.5	2.1	4.1
12/16/07	5.8	7.4	7.1	6.2	8.6	9.2	10.4	9.6	8.8	8.6	7.2	5.6	5.2	6.2	5.3	7.1	6.3	9.8	10.9	10.8	10.5	8.8	8.6	10.8	24	10.9	5.2	8.1
12/17/07	11.2	10.1	8.6	8.0	7.1	6.8	7.7	7.1	8.7	4.7	7.3	5.0	3.9	4.5	3.2	3.0	2.5	1.8	2.0	2.2	4.5	6.8	8.2	8.4	24	11.2	1.8	6.0
12/18/07	8.7	7.2	7.4	8.6	12.7	11.5	10.6	11.3	13.2									6.3	6.4	7.5	7.1	7.4	8.4	9.2	16	13.2	6.3	9.0
12/19/07	8.8	7.4	6.7	8.0	8.9	5.5	5.4	7.6	10.9	11.2	9.8	6.5	6.4	5.7	4.4	4.7	3.3	4.3	4.7	7.1	8.1	9.7	10.0	9.4	24	11.2	3.3	7.3
12/20/07	9.7	9.0	8.6	6.2	4.6	3.9	3.8	5.1	4.8	7.3	7.5	8.1	8.1	7.3	8.0	6.6	5.8	7.2	6.7	6.1	4.4	3.4	2.4	4.9	24	9.7	2.4	6.2
12/21/07	3.4	2.2	1.5	2.2	1.3	3.0	2.9	2.9	3.9	2.9	4.3	6.2	6.2	8.4	11.2	12.3	14.2	15.1	15.7	15.7	15.3	14.1	16.6	16.4	24	16.6	1.3	8.2
12/22/07	14.2	13.1	13.6	12.3	10.5	8.9	7.3	6.3	7.5	7.0	9.5	10.8	12.2	13.2	11.7	11.9	11.5	9.7	11.4	11.7	9.6	9.9	11.6	11.7	24	14.2	6.3	10.7
12/23/07	12.6	12.7	12.7	13.3	10.6	9.5	8.6	6.4	8.4	12.1	11.9	10.7	10.3	10.8	10.4	8.7	9.2	9.5	10.2	10.3	9.0	8.3	7.9	8.9	24	13.3	6.4	10.1
12/24/07	8.3	7.9	7.1	6.3	5.5	6.7	8.0	9.2	10.2	9.3	9.9	8.8	9.0	7.5	6.8	8.3	8.7	10.0	9.0	7.3	6.0	5.0	5.5	7.9	24	10.2	5.0	7.8
12/25/07	8.9	8.6	8.7	8.5	7.8	8.6	8.0	6.8	7.0	7.6	6.8	7.5	7.8	6.7	6.2	5.3	3.6	3.2	4.0	2.0	1.8	1.8	1.6	2.7	24	8.9	1.6	5.9
12/26/07	4.2	5.0	4.7	3.9	7.3	4.6	4.7	4.2	3.4	3.1	2.0	1.7	1.3	1.7	1.2	2.4	3.5	5.5	5.2	4.2	3.8	3.2	2.8	2.8	24	7.3	1.2	3.6
12/27/07	2.4	2.5	2.8	2.4	2.4	2.5	2.6	2.6	2.8	2.4	2.2	2.1	2.1	1.8	1.8	1.7	1.3	1.4	1.2	1.2	0.8	0.8	1.2	1.3	24	2.8	0.8	1.9
12/28/07	1.0	0.8	0.7	0.8	0.7	0.5	0.2	0.5	0.6	0.5	0.5	0.7	0.7	0.6	0.7	0.8	0.6	0.6	0.6	0.6	0.6	0.7	0.9	0.8	24	1.0	0.2	0.7
12/29/07	1.0	1.1	1.0	0.9	0.9	1.1	1.0	1.2	1.1	0.9	1.0	3.5	7.9	7.4	7.4	6.5	6.8	7.1	7.1	8.7	9.5	9.1	9.9	9.4	24	9.9	0.9	4.6
12/30/07	8.3	7.8	7.3	6.8	5.7	4.9	4.8	5.0	7.2	6.8	3.8	3.6	2.4	3.6	3.9	3.5	3.4	2.7	2.4	2.3	2.6	1.1	0.8	0.9	24	8.3	0.8	4.2
12/31/07	1.4	2.7	4.7	7.8	7.4	7.0	6.3	8.2	9.3	10.4	11.7	10.1	8.2	9.5	11.0	9.9	11.1	10.2	9.9	8.9	8.4	8.2	10.0	11.0	24	11.7	1.4	8.5
hr max	14.2	13.1	13.6	13.3	13.3	11.7	13.1	14.7	13.5	14.5	15.4	16.8	15.6	13.2	11.7	12.3	14.2	15.1	15.7	15.7	15.3	14.1	16.6	16.4				
hr min	1.0	0.8	0.7	0.8	0.7	0.5	0.2	0.5	0.6	0.5	0.5	0.7	0.7	0.6	0.7	0.8	0.6	0.6	0.6	0.6	0.6	0.7	0.8	0.8				
average	7.1	7.1	6.9	6.7	6.7	6.3	6.5	6.6	7.0	6.7	6.5	6.5	6.4	6.5	6.4	6.1	5.8	6.2	6.5	6.6	6.7	6.5	6.9	7.2				

monthly max hr	monthly min hr	monthly ave hr
16.8	0.2	6.6
12/13/07	12/28/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	662
possible hours	744
data capture	89.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
mps
100WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
12/1/07	10.3	10.3	10.4	10.5	11.5	9.7	9.4	8.9	8.9	7.3	6.3	7.1	5.9	6.0	6.0	6.2	6.2	6.8	6.8	6.5	7.2	8.4	9.0	7.0	24	11.50	5.90	8.03
12/2/07	9.9	10.0	9.7	11.3	10.4	10.5	11.4	12.7	11.9	11.4	10.0	9.8	8.9	7.3	7.2	6.9	4.9	5.4	5.4	7.8	9.2	10.9	13.2	13.2	24	13.2	4.9	9.6
12/3/07	13.9	12.5	12.8	9.1	11.3	12.0	11.7	9.3	7.5	5.0	5.5	7.1	8.3	9.1	9.5	8.6	7.5	7.6	6.9	6.8	6.8	3.9	2.7	2.4	24	13.9	2.4	8.2
12/4/07	4.7	3.7	4.1	5.0	7.5	9.1	7.9	10.0	11.1	12.2															10	12.2	3.7	7.5
12/5/07																									0			
12/6/07																									0			
12/7/07													7.0	6.9	6.9	4.3	5.7	7.1	7.6	7.4	9.2	9.0	8.1	8.3	12	9.2	4.3	7.3
12/8/07	8.9	7.7	5.6	2.9	2.8	3.8	3.7	3.8	2.2	2.2	1.6	1.5	1.5	2.2	2.7	3.1	1.9	1.6	1.4	1.7	1.2	1.5	3.1	4.2	24	8.9	1.2	3.0
12/9/07	3.9	4.6	5.9	6.5	5.5	5.6	4.6	5.4	5.7	5.4	5.8	6.9	6.8	7.4	8.2	8.1	7.1	8.7	10.6	10.7	11.7	12.7	12.2	11.6	24	12.7	3.9	7.6
12/10/07	12.5	12.3	9.1	9.8	8.1	8.0	8.0	6.4	5.9	7.7	10.5	8.2	7.0	6.7	6.5	7.1	9.2	10.9	11.6	12.2	13.8	14.0	10.6	8.4	24	14.0	5.9	9.4
12/11/07	8.3	9.7	8.9	9.3	8.2	7.5	10.6	11.6	9.3	10.3	6.4	5.6	6.6	7.9	6.4	3.5	2.0	1.6	2.1	2.4	3.9	5.8	6.5	6.0	24	11.6	1.6	6.7
12/12/07	7.7	9.1	9.8	10.8	9.4	10.2	9.6	10.1	11.8	13.4	12.2	10.7	9.1	9.4	9.2	9.5	11.8	11.4	11.4	10.9	9.0	7.8	13.0	13.5	24	13.5	7.7	10.5
12/13/07	14.3	13.5	16.4	16.0	16.3	14.3	15.7	17.5	16.4	16.9	17.0	17.9	16.3	11.3	11.6	11.3	11.8	8.2	7.6	7.5	6.5	6.1	5.9	4.2	24	17.9	4.2	12.5
12/14/07	4.7	5.6	5.5	4.7	4.1	3.3	3.1	4.1	4.4	4.0	5.1	5.7	5.1	6.9	8.8	7.8	7.7	7.2	7.9	9.4	10.3	10.4	9.7	8.6	24	10.4	3.1	6.4
12/15/07	7.3	6.5	5.3	5.1	4.9	3.8	3.3	4.0	3.9	6.1	7.1	5.4	4.6	4.7	4.1	3.0	2.5	2.6	3.7	4.4	5.1	6.0	5.5	5.7	24	7.3	2.5	4.8
12/16/07	5.9	6.4	7.4	6.3	8.6	11.2	10.3	11.2	8.6	9.0	9.0	6.9	6.1	6.8	6.1	7.9	7.6	11.4	12.5	11.9	11.3	9.6	9.1	11.0	24	12.5	5.9	8.8
12/17/07	12.0	12.9	10.4	10.4	9.6	8.6	6.2	5.4	6.7	3.5	5.7	5.9	5.1	5.1	3.4	3.0	2.5	1.8	1.0	2.4	5.3	6.1	7.6	9.5	24	12.9	1.0	6.3
12/18/07	9.4	7.3	7.7	11.2	12.7	12.5	11.4	12.2	13.4									6.7	7.7	8.6	8.8	8.6	10.3	9.6	16	13.4	6.7	9.9
12/19/07	8.9	7.4	7.8	8.3	8.1	9.2	9.9	9.4	7.3	7.5	11.8	8.1	8.6	6.7	4.7	4.9	3.6	4.2	5.0	8.1	9.0	8.8	10.3	10.2	24	11.8	3.6	7.8
12/20/07	11.1	9.4	8.8	6.7	5.1	4.1	4.6	4.7	4.6	6.3	6.9	7.8	8.7	9.2	10.3	11.2	9.0	6.9	7.6	6.8	4.2	2.3	1.3	3.9	24	11.2	1.3	6.7
12/21/07	3.5	1.7	1.0	3.1	2.0	2.0	2.5	1.9	3.0	2.5	3.5	6.5	7.1	9.2	12.0	13.5	15.4	16.3	17.1	17.4	17.1	15.6	18.1	17.8	24	18.1	1.0	8.7
12/22/07	15.7	14.6	15.0	13.7	12.3	11.0	9.8	9.1	8.8	10.6	11.9	11.6	12.8	13.9	12.3	12.8	12.6	11.8	14.1	14.5	12.4	12.8	14.7	15.0	24	15.7	8.8	12.7
12/23/07	15.3	15.2	14.8	15.3	12.1	11.0	10.5	8.1	9.9	13.8	13.9	11.7	10.9	11.6	10.9	9.2	10.6	11.5	12.8	13.2	11.1	10.4	10.0	10.2	24	15.3	8.1	11.8
12/24/07	9.8	8.0	5.7	6.0	6.1	7.2	9.0	9.7	10.6	11.0	12.4	12.5	11.9	8.9	8.3	10.4	11.4	12.1	10.2	9.3	6.9	5.9	8.2	10.7	24	12.5	5.7	9.3
12/25/07	11.6	10.8	10.6	10.8	9.9	10.5	9.8	8.7	9.2	10.0	8.3	8.4	8.6	7.5	7.0	6.1	4.8	4.1	4.7	2.7	1.8	1.6	1.4	2.7	24	11.6	1.4	7.2
12/26/07	3.8	4.9	4.6	3.8	6.4	3.8	2.9	3.1	2.6	2.7	2.9	1.6	1.0	1.9	1.2	2.5	3.8	4.8	5.0	6.3	6.0	4.3	3.2	3.2	24	6.4	1.0	3.6
12/27/07	2.5	2.7	2.9	2.4	2.5	2.5	2.3	2.4	2.4	2.0	2.1	1.9	1.9	1.7	1.7	1.6	1.4	1.5	1.2	1.1	0.8	0.6	1.6	1.5	24	2.9	0.6	1.9
12/28/07	0.5	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	1	0.5	0.5	0.5
12/29/07	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	4.0	8.7	2	8.7	4.0	6.4
12/30/07	8.5	8.4	7.4	6.3	5.0	5.0	5.5	4.8	5.2	6.9	5.2	3.9	2.5	3.7	4.0	3.7	3.7	3.2	3.2	2.8	3.2	1.3	1.0	1.2	24	8.5	1.0	4.4
12/31/07	1.5	3.3	4.8	7.5	9.0	9.0	8.9	10.1	10.4	11.5	12.4	10.7	8.7	9.9	11.4	10.5	12.2	12.0	12.1	11.1	10.7	10.0	11.7	12.5	24	12.5	1.5	9.7
hr max	15.7	15.2	16.4	16.0	16.3	14.3	15.7	17.5	16.4	16.9	17.0	17.9	16.3	13.9	12.3	13.5	15.4	16.3	17.1	17.4	17.1	15.6	18.1	17.8				
hr min	0.5	1.7	1.0	2.4	2.0	2.0	2.3	1.9	2.2	2.0	1.6	1.5	1.0	1.7	1.2	1.6	1.4	1.5	1.0	1.1	0.8	0.6	1.0	1.2				
average	8.4	8.4	8.2	8.2	8.1	7.9	7.8	7.9	7.8	8.0	8.1	7.6	7.2	7.3	7.2	7.1	7.1	7.2	7.6	7.8	7.8	7.5	7.9	8.2				

monthly	monthly	monthly
max hr	min hr	ave hr
18.1	0.5	7.8
12/21/07	12/28/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	617
possible hours	744
data capture	82.9%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
Deg
10mWD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
12/1/07	125	123	116	116	125	120	114	107	105	108	97	87	76	55	44	35	35	1	349	332	322	330	345	333	24
12/2/07	307	331	329	324	314	306	311	312	303	295	297	307	297	296	279	263	243	206	199	191	200	192	191	190	24
12/3/07	187	184	183	183	180	204	210	213	201	206	224	230	237	228	234	241	248	249	261	254	302	94	179	126	24
12/4/07	66	73	133	147	157	181	140	180	194	205															10
12/5/07																									0
12/6/07																									0
12/7/07													303	309	315	306	293	288	309	326	319	314	316	344	12
12/8/07	15	36	27	273	24	39	37	29	336	2	3	336	334	307	314	332	355	12	2	12	59	188	213	219	24
12/9/07	222	216	215	215	221	221	218	208	202	210	200	206	207	201	204	204	193	187	187	180	179	184	179	171	24
12/10/07	170	180	171	179	187	183	194	222	224	233	244	241	250	246	250	249	245	285	307	307	308	321	316	284	24
12/11/07	316	318	320	322	324	329	336	345	337	328	323	324	327	326	337	336	317	230	221	210	195	192	189	191	24
12/12/07	198	206	203	196	191	187	191	189	191	198	196	197	192	197	196	198	199	206	225	244	251	255	263	246	24
12/13/07	258	260	279	277	288	277	287	291	288	283	299	304	310	334	328	327	324	350	355	349	357	6	14	49	24
12/14/07	58	98	131	120	138	124	135	137	153	132	126	150	161	172	180	186	178	173	177	181	188	195	196	198	24
12/15/07	205	207	205	209	214	223	236	245	242	253	270	272	284	287	291	301	259	212	196	200	213	220	230	241	24
12/16/07	249	249	257	239	237	221	226	227	220	222	242	256	262	249	237	237	218	214	229	233	232	236	234	229	24
12/17/07	232	233	231	228	213	201	198	203	193	196	196	182	175	180	192	151	184	205	30	332	255	260	270	289	24
12/18/07	295	302	309	292	296	295	292	282	289									257	254	244	251	232	218	227	16
12/19/07	241	225	212	196	188	173	165	171	155	148	148	162	179	186	185	233	248	255	248	245	249	237	248	259	24
12/20/07	261	281	292	275	233	228	220	243	223	201	205	200	204	196	190	183	181	162	179	193	216	215	136	182	24
12/21/07	147	264	167	192	312	45	307	282	56	124	309	328	347	344	355	359	352	341	343	345	346	342	335	336	24
12/22/07	340	336	334	329	325	314	290	246	254	243	284	302	306	312	320	325	324	313	315	307	302	304	306	306	24
12/23/07	308	313	310	314	316	315	318	314	308	302	314	312	311	312	323	306	304	311	311	315	315	305	319	312	24
12/24/07	300	278	271	267	234	208	208	206	205	198	195	193	191	186	191	185	185	194	204	209	228	250	358	315	24
12/25/07	341	357	357	346	335	332	333	331	329	319	312	321	330	333	334	344	336	278	310	297	230	223	252	214	24
12/26/07	206	218	226	236	288	288	283	261	282	294	320	347	326	318	329	81	72	107	88	58	71	79	97	99	24
12/27/07	98	95	94	101	99	103	108	106	99	106	106	107	124	123	130	137	143	146	143	149	153	165	204	222	24
12/28/07	250	233	216	207	280	344	328	297	300	289	291	280	281	290	286	304	296	311	301	273	276	254	240	245	24
12/29/07	244	234	224	213	193	195	199	193	183	185	190	190	194	192	202	187	190	186	184	190	189	196	200	202	24
12/30/07	204	215	218	224	234	243	246	242	275	293	311	293	274	282	287	297	307	286	334	300	46	197	235	302	24
12/31/07	18	329	298	299	310	312	307	315	338	340	339	339	321	316	321	322	326	324	325	321	314	318	321	327	24

Validated by:	Roger L Thompson	Date:	1/3/08
Analyst:	Denise Hazelman	Date:	1/3/08

valid hours	662
possible hours	744
data capture	89.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
Deg
50mWD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
12/1/07	127	125	117	118	127	122	115	108	106	109	100	89	77	55	45	37	37	2	352	334	323	330	346	335	24
12/2/07	309	331	329	324	319	311	313	316	307	301	301	307	297	297	280	266	275	233	223	202	203	197	192	190	24
12/3/07	186	186	184	187	187	189	201	221	232	240	246	248	252	248	249	260	277	276	294	288	317	359	72	125	24
12/4/07	77	89	124	150	157	175	151	182	201	220															10
12/5/07																									0
12/6/07																									0
12/7/07													299	305	311	299	294	305	324	336	336	338	338	359	12
12/8/07	17	16	8	17	21	35	31	17	334	1	5	342	334	305	312	327	346	1	9	16	31	156	207	218	24
12/9/07	219	215	218	227	235	235	232	219	206	209	198	204	205	200	202	202	192	190	186	179	181	184	182	177	24
12/10/07	177	184	175	176	181	184	190	223	239	240	245	240	251	244	250	251	255	294	313	313	310	320	322	312	24
12/11/07	317	315	318	319	320	324	328	338	329	327	322	320	322	322	332	335	326	258	239	224	196	194	190	203	24
12/12/07	214	213	217	209	199	189	190	189	190	194	195	197	193	195	194	196	194	201	227	253	261	270	273	266	24
12/13/07	269	272	278	278	288	279	286	288	286	281	295	301	306	329	324	323	320	347	357	357	1	7	17	42	24
12/14/07	54	94	131	120	135	124	133	141	153	137	133	147	157	170	178	185	179	172	176	177	187	192	194	197	24
12/15/07	205	211	207	207	218	229	253	264	275	282	285	275	283	284	287	294	271	225	211	220	228	233	251	259	24
12/16/07	257	264	278	271	256	245	241	242	243	244	251	260	264	249	238	240	229	231	244	250	251	257	251	247	24
12/17/07	250	249	247	245	234	220	207	202	198	178	191	177	167	175	187	147	167	186	56	310	267	286	291	302	24
12/18/07	310	314	314	294	299	299	296	287	291									277	279	275	275	251	254	259	16
12/19/07	250	236	221	211	196	176	171	173	154	148	149	163	179	187	184	234	257	265	272	263	262	267	274	282	24
12/20/07	287	298	303	289	264	265	264	257	236	213	204	200	205	197	188	179	175	162	176	196	214	226	201	195	24
12/21/07	168	209	245	187	291	32	355	325	24	58	334	330	350	343	354	359	352	340	342	344	345	341	333	335	24
12/22/07	339	335	332	328	325	315	300	277	281	260	287	301	305	311	318	323	323	313	315	308	304	306	307	306	24
12/23/07	310	312	309	313	315	315	318	313	308	302	313	312	310	311	322	307	304	313	314	319	324	316	328	322	24
12/24/07	316	300	297	289	269	242	224	216	218	212	202	197	193	190	191	186	185	189	193	206	230	269	332	323	24
12/25/07	341	356	355	344	336	333	334	332	329	321	314	320	329	333	333	340	340	321	332	320	247	253	299	245	24
12/26/07	222	232	262	297	301	320	316	312	297	299	299	351	344	315	323	80	75	107	108	84	76	82	98	99	24
12/27/07	98	97	94	102	100	104	110	108	102	107	107	108	125	125	133	141	145	151	149	154	157	166	204	223	24
12/28/07	248	232	210	203	276	340	320	288	288	264	272	279	278	284	286	305	296	311	302	278	274	254	242	247	24
12/29/07	247	239	228	214	192	196	201	193	180	183	190	188	191	192	202	187	188	185	184	187	187	197	206	213	24
12/30/07	220	238	242	255	278	265	278	272	291	308	308	288	276	279	285	298	308	294	319	299	12	54	295	351	24
12/31/07	2	330	308	309	316	314	311	317	335	338	337	336	319	315	319	320	324	322	323	320	317	318	321	325	24

Validated by:	Roger L Thompson	Date:	1/3/08
Analyst:	Denise Hazelman	Date:	1/3/08

valid hours	662
possible hours	744
data capture	*89.0%*

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
Deg
100WD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
12/1/07	137	132	125	126	134	128	123	117	115	117	110	98	85	62	52	41	41	9	359	340	328	333	349	341	24
12/2/07	318	334	332	328	328	320	319	323	317	316	313	311	301	305	288	273	287	247	232	209	214	212	204	204	24
12/3/07	195	207	210	217	209	205	225	245	255	273	265	274	273	258	268	281	299	295	317	314	333	25	91	132	24
12/4/07	112	128	161	170	187	198	189	215	238	261															10
12/5/07																									0
12/6/07																									0
12/7/07													306	311	318	302	300	314	326	338	341	348	352	13	12
12/8/07	21	23	20	31	32	36	26	16	341	7	13	351	337	310	318	331	346	7	21	13	14	182	211	229	24
12/9/07	240	242	236	240	248	247	249	242	226	228	206	210	211	207	208	208	200	197	194	194	194	193	194	194	24
12/10/07	194	194	193	193	199	201	207	242	259	247	267	263	271	255	265	268	277	304	323	322	322	332	335	330	24
12/11/07	328	323	328	326	328	330	335	347	341	341	334	328	328	328	336	339	326	289	272	251	218	214	215	217	24
12/12/07	230	227	227	221	207	205	209	207	199	205	206	209	204	201	200	201	199	213	240	263	290	296	294	285	24
12/13/07	286	288	290	289	298	291	296	297	296	291	302	307	313	334	330	329	327	352	5	5	9	16	24	47	24
12/14/07	57	103	144	138	148	156	165	181	179	170	161	160	168	184	196	198	195	194	194	194	200	203	204	208	24
12/15/07	221	230	222	228	242	261	293	297	312	302	311	298	295	293	293	299	284	240	231	238	246	251	277	284	24
12/16/07	285	287	290	280	265	261	266	266	282	280	279	280	280	260	251	254	244	245	257	264	270	285	276	264	24
12/17/07	267	269	264	247	235	229	214	215	192	172	181	169	172	182	191	151	171	197	297	290	292	310	309	316	24
12/18/07	324	332	322	308	315	321	316	306	311									287	292	291	288	266	267	262	16
12/19/07	255	243	233	221	207	191	192	182	173	168	158	169	185	192	188	239	266	276	286	286	281	285	288	299	24
12/20/07	301	303	305	302	309	298	275	260	240	212	198	193	195	195	193	188	181	169	182	209	231	243	189	197	24
12/21/07	201	262	214	188	218	42	48	336	35	67	356	342	359	348	358	3	356	345	347	348	350	345	337	339	24
12/22/07	344	339	337	333	331	326	315	302	299	280	295	305	309	315	322	327	326	319	321	316	313	314	315	316	24
12/23/07	318	319	315	318	320	322	324	319	313	308	319	317	316	317	326	312	310	321	323	329	337	331	345	342	24
12/24/07	337	320	308	294	285	260	241	230	230	219	216	211	203	203	197	195	192	194	200	219	250	290	340	334	24
12/25/07	348	0	360	351	343	340	342	340	337	333	326	326	334	338	338	342	344	331	341	329	282	292	320	258	24
12/26/07	245	255	293	334	325	342	327	319	288	263	259	343	356	306	342	81	82	122	132	128	119	94	107	106	24
12/27/07	105	104	99	109	105	111	118	114	111	114	115	118	132	131	139	146	152	157	157	163	165	176	218	238	24
12/28/07	264	258	251	248	292	329	318	304	302	296	296	292	296	302	306	307	299	311	304	285	277	256	244	246	24
12/29/07	245	238	228	213	198	201	202	201	189	193	205	205	206	206	209	195	196	201	206	211	211	217	230	237	24
12/30/07	253	269	281	295	304	304	312	313	310	311	314	300	292	284	292	305	309	291	317	311	7	25	2	328	24
12/31/07	327	330	323	321	323	322	319	324	341	343	342	341	324	319	324	324	329	327	328	327	327	326	327	330	24

Validated by:	Roger L Thompson	Date:	1/3/08
Analyst:	Denise Hazelman	Date:	1/3/08

valid hours	662
possible hours	744
data capture	89.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
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data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
12/1/07	6.7	7.1	7.6	7.3	6.8	7.1	6.9	7.5	7.1	7.7	7.9	7.9	8.3	9.1	8.2	8.2	8.2	6.2	7.9	5.7	5.7	4.8	5.6	8.1	24	9.1	4.8	7.2
12/2/07	4.2	6.0	5.3	4.2	4.3	4.1	3.7	3.9	4.7	3.3	3.6	3.8	5.1	5.2	5.7	6.9	20.2	11.4	7.0	5.5	4.0	6.5	6.7	6.9	24	20.2	3.3	5.9
12/3/07	6.4	6.1	5.9	5.2	8.1	7.1	3.8	10.0	9.4	4.6	5.3	6.0	6.0	5.8	5.0	4.3	3.7	3.7	3.9	5.2	19.9	15.4	20.9	23.0	24	23.0	3.7	8.1
12/4/07	7.7	16.1	18.8	22.6	7.9	21.3	17.2	10.5	11.4	5.6															10	22.6	5.6	13.9
12/5/07																									0			
12/6/07																									0			
12/7/07													7.3	5.4	7.3	6.5	6.4	4.5	1.9	4.3	9.8	8.9	6.9	5.6	12	9.8	1.9	6.2
12/8/07	9.4	7.1	15.9	46.1	22.6	8.4	9.1	7.1	34.5	13.6	25.8	32.0	17.7	22.7	16.8	8.2	11.0	7.6	7.9	15.9	24.4	9.8	3.2	4.0	24	46.1	3.2	15.9
12/9/07	4.9	3.9	3.2	4.2	4.8	3.7	6.3	5.1	7.1	7.0	8.6	8.4	7.7	9.4	8.5	8.6	9.1	6.9	7.1	4.0	4.1	4.9	4.5	4.5	24	9.4	3.2	6.1
12/10/07	5.4	5.1	4.5	7.3	13.7	9.1	8.7	5.8	6.4	6.5	6.7	6.4	6.2	5.8	7.9	4.9	7.2	5.8	3.5	3.9	4.4	4.3	4.5	9.2	24	13.7	3.5	6.4
12/11/07	5.3	4.7	4.7	4.4	4.5	4.4	5.3	6.0	7.8	4.3	5.2	5.2	5.9	6.7	6.2	9.8	14.2	31.8	5.7	8.7	3.9	3.3	3.0	4.8	24	31.8	3.0	6.9
12/12/07	5.7	2.7	3.0	6.4	6.3	7.0	7.7	6.8	7.1	8.1	8.1	7.6	8.7	8.7	9.0	8.5	7.5	7.1	4.3	6.0	4.6	4.6	4.5	4.8	24	9.0	2.7	6.5
12/13/07	7.5	6.4	4.9	4.7	4.6	5.4	5.5	4.7	4.9	5.2	4.9	5.4	5.3	6.4	5.4	5.2	5.7	6.0	4.9	10.3	6.5	6.6	7.9	6.8	24	10.3	4.6	5.9
12/14/07	6.5	12.2	9.2	9.2	8.1	11.6	8.5	9.1	8.7	8.8	8.7	9.3	6.8	7.3	6.5	7.3	5.5	3.9	6.9	6.2	6.8	7.8	7.7	8.5	24	12.2	3.9	8.0
12/15/07	6.7	6.4	7.6	5.7	6.4	6.5	5.9	6.3	6.3	5.2	5.7	5.8	7.3	7.2	6.5	6.7	6.5	4.4	4.4	3.3	3.9	1.5	4.1	4.5	24	7.6	1.5	5.6
12/16/07	2.0	6.4	8.7	5.1	4.1	4.1	5.9	5.6	4.8	5.4	6.4	8.2	7.1	5.9	7.5	5.3	4.6	4.9	2.4	3.2	3.2	2.5	3.0	4.0	24	8.7	2.0	5.0
12/17/07	4.0	3.6	2.9	4.7	2.5	3.7	5.1	5.3	5.8	9.2	9.4	7.9	9.0	13.1	10.8	10.8	16.1	19.7	22.4	29.0	16.4	5.4	4.5	3.9	24	29.0	2.5	9.4
12/18/07	4.7	4.0	9.2	13.6	4.0	3.8	3.9	5.1	4.3									4.3	2.3	2.2	4.3	5.6	6.3	5.4	16	13.6	2.2	5.2
12/19/07	3.0	3.6	2.9	4.7	4.6	2.9	3.9	5.2	5.5	6.4	7.0	7.8	6.3	8.1	11.3	16.4	10.3	5.9	7.7	3.6	4.0	5.9	3.7	3.0	24	16.4	2.9	6.0
12/20/07	3.9	3.6	3.0	7.9	6.4	4.4	5.0	2.7	4.4	6.0	5.5	6.7	6.4	7.6	7.8	5.9	6.1	5.0	4.8	3.5	50.5	23.3	39.9	4.4	24	50.5	2.7	9.4
12/21/07	24.9	52.1	47.0	7.5	26.0	24.7	42.6	32.8	26.1	27.7	30.7	9.0	6.4	6.1	6.3	6.3	7.0	6.4	5.8	5.8	5.3	5.6	4.5	5.2	24	52.1	4.5	17.6
12/22/07	5.2	5.1	4.7	4.8	5.0	4.2	7.6	14.0	9.1	9.0	6.0	5.5	5.5	5.5	5.9	5.0	4.7	4.3	4.8	4.3	4.6	5.1	5.7	4.9	24	14.0	4.2	5.9
12/23/07	4.4	4.5	4.6	4.7	5.2	5.6	6.6	7.3	6.1	5.3	5.7	6.2	5.9	5.0	5.8	9.7	6.4	3.6	4.5	3.4	4.7	5.9	4.0	5.3	24	9.7	3.4	5.4
12/24/07	5.7	8.5	3.7	13.7	6.0	5.0	4.0	4.4	5.7	7.9	7.5	8.1	7.4	6.7	7.4	7.0	6.9	7.4	7.0	6.7	5.9	37.8	14.2	10.5	24	37.8	3.7	8.5
12/25/07	5.4	5.7	6.1	5.1	6.1	4.6	4.5	5.0	5.2	4.5	4.6	5.6	5.3	5.8	5.8	5.3	6.6	9.1	3.0	10.7	4.4	6.9	8.8	8.5	24	10.7	3.0	5.9
12/26/07	6.3	4.5	8.3	7.9	4.8	4.7	15.2	10.8	5.2	7.1	21.1	18.7	16.4	20.1	46.6	14.6	8.1	7.6	17.5	12.2	10.2	9.1	10.7	8.3	24	46.6	4.5	12.3
12/27/07	12.1	9.6	8.9	9.6	8.7	9.7	8.6	10.0	9.0	10.0	9.8	10.2	9.0	8.8	9.5	10.6	9.7	8.8	8.2	8.9	9.9	12.8	10.5	9.3	24	12.8	8.2	9.7
12/28/07	8.6	10.1	12.2	13.5	17.5	9.6	12.6	10.3	16.1	24.4	14.5	11.8	15.5	14.4	10.8	8.5	13.8	12.0	17.1	15.8	16.0	11.5	10.6	10.5	24	24.4	8.5	13.2
12/29/07	8.1	7.7	8.8	11.8	13.2	13.3	12.5	11.4	8.0	9.3	10.2	10.0	10.6	9.9	10.1	8.8	8.9	7.8	7.2	7.8	7.0	6.7	4.7	4.6	24	13.3	4.6	9.1
12/30/07	5.8	4.6	3.8	3.2	7.1	4.6	5.6	5.4	4.4	5.5	13.3	10.0	13.1	9.5	7.8	5.2	7.1	4.8	50.4	26.9	12.3	14.8	14.1	30.9	24	50.4	3.2	11.3
12/31/07	18.2	5.7	5.1	4.9	4.2	4.4	5.0	5.9	5.5	5.6	5.3	6.2	7.3	6.6	5.8	5.6	5.3	4.9	4.8	4.5	4.6	4.9	4.9	5.3	24	18.2	4.2	5.9
hr max	24.9	52.1	47.0	46.1	26.0	24.7	42.6	32.8	34.5	27.7	30.7	32.0	17.7	22.7	46.6	16.4	20.2	31.8	50.4	29.0	50.5	37.8	39.9	30.9				
hr min	2.0	2.7	2.9	3.2	2.5	2.9	3.7	2.7	4.3	3.3	3.6	3.8	5.1	5.0	5.0	4.3	3.7	3.6	1.9	2.2	3.2	1.5	3.0	3.0				
average	7.1	8.0	8.2	8.9	8.0	7.3	8.5	8.0	8.6	8.3	9.5	8.8	8.3	8.6	9.3	7.8	8.4	7.7	8.4	8.1	9.3	8.7	8.2	7.7				

monthly max hr	monthly min hr	monthly ave hr
52.1	1.5	8.3
12/21/07	12/15/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	662
possible hours	744
data capture	89.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
Deg
50sigT

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
12/1/07	4.3	5.2	5.3	5.3	4.5	5.2	4.5	4.8	4.4	5.6	5.0	4.7	5.4	5.7	5.5	4.7	4.7	4.0	6.4	4.9	4.8	3.7	4.0	6.4	24	6.4	3.7	5.0
12/2/07	3.4	5.0	4.0	3.1	3.4	2.8	2.5	2.9	2.8	2.3	3.2	3.2	4.1	4.4	5.4	4.7	8.2	7.0	3.1	2.4	2.2	1.5	2.0	2.4	24	8.2	1.5	3.6
12/3/07	3.2	2.8	2.9	2.5	2.8	3.5	1.5	3.2	1.8	1.6	1.3	2.9	3.5	2.9	3.5	3.2	1.9	2.3	2.1	2.7	4.2	4.7	15.8	13.1	24	15.8	1.3	3.7
12/4/07	5.2	8.6	6.4	7.0	2.7	8.1	11.4	5.3	6.2	3.7															10	11.4	2.7	6.5
12/5/07																									0			
12/6/07																									0			
12/7/07													6.2	4.2	6.1	5.6	4.2	2.9	2.1	1.7	2.2	1.0	3.0	3.6	12	6.2	1.0	3.6
12/8/07	2.7	1.8	31.5	46.5	14.7	4.9	7.0	3.5	28.6	10.0	23.9	17.9	15.0	18.9	10.8	7.0	8.6	3.8	5.1	6.7	8.1	16.9	3.6	3.2	24	46.5	1.8	12.5
12/9/07	4.0	3.2	2.3	3.8	6.3	3.4	5.2	3.3	2.4	4.0	5.5	4.9	4.4	6.3	5.3	5.2	5.6	2.9	4.5	1.8	1.3	2.7	1.8	1.7	24	6.3	1.3	3.8
12/10/07	1.8	4.4	2.8	4.3	2.6	2.6	3.6	3.4	2.2	3.2	5.1	4.6	5.6	4.4	6.3	3.5	6.1	2.4	1.8	2.7	2.2	2.5	2.1	4.0	24	6.3	1.8	3.5
12/11/07	4.3	4.1	3.9	3.7	3.5	3.2	3.4	4.2	3.0	2.6	4.7	4.1	4.3	5.3	4.3	5.6	9.4	11.3	5.1	7.0	2.5	2.5	2.4	3.5	24	11.3	2.4	4.5
12/12/07	3.4	2.2	1.8	1.4	2.7	4.2	3.6	4.1	3.6	5.0	5.0	3.7	5.7	5.4	6.2	5.2	4.0	2.4	2.8	2.6	2.3	2.9	2.8	2.5	24	6.2	1.4	3.6
12/13/07	4.0	4.7	3.2	3.3	3.6	4.8	4.6	4.1	4.3	4.1	4.3	4.2	4.6	5.0	4.3	4.3	4.3	5.4	3.7	5.0	3.7	4.3	4.8	4.3	24	5.4	3.2	4.3
12/14/07	4.1	7.6	6.6	7.8	7.4	9.9	6.9	7.7	5.6	9.2	7.5	7.5	4.7	4.9	4.0	5.5	3.4	2.1	2.3	2.2	3.6	4.1	4.1	4.7	24	9.9	2.1	5.6
12/15/07	3.9	3.1	4.2	3.4	4.7	3.3	3.4	5.3	3.0	3.1	5.4	5.6	6.1	6.1	5.7	6.5	4.5	6.6	6.8	4.1	6.0	2.2	3.2	3.4	24	6.8	2.2	4.6
12/16/07	1.8	5.2	4.8	4.4	1.3	3.0	2.1	2.2	2.1	1.6	5.3	7.8	6.5	4.4	5.5	3.0	4.2	1.8	1.5	0.7	1.4	2.6	2.8	1.2	24	7.8	0.7	3.2
12/17/07	2.1	3.7	2.1	2.1	2.2	3.1	2.4	3.6	1.7	7.4	4.2	4.5	6.2	11.0	6.7	8.1	9.8	11.8	42.1	17.4	5.9	5.1	2.3	1.1	24	42.1	1.1	6.9
12/18/07	3.5	3.9	5.3	3.7	1.9	1.4	2.3	2.5	1.6									2.1	1.9	2.0	3.7	3.0	2.8	2.2	16	5.3	1.4	2.7
12/19/07	2.6	2.3	2.3	3.2	2.2	3.0	1.7	2.7	1.6	2.6	4.3	5.5	4.6	6.1	9.2	12.9	7.1	4.0	3.0	2.2	3.3	3.5	4.0	2.7	24	12.9	1.6	4.0
12/20/07	2.2	1.0	1.1	3.9	5.0	3.9	4.3	2.8	3.4	5.1	2.7	2.5	2.7	3.9	4.2	3.2	2.1	1.7	2.4	2.4	2.6	4.5	6.2	4.4	24	6.2	1.0	3.3
12/21/07	4.9	15.4	35.6	14.6	30.6	16.4	17.2	11.2	8.0	14.8	40.4	6.9	4.3	4.6	4.2	4.8	5.3	4.7	4.2	4.2	3.9	4.3	3.5	3.7	24	40.4	3.5	11.2
12/22/07	4.0	4.0	3.8	3.7	3.8	2.5	3.6	7.2	3.0	7.0	5.5	4.4	4.4	4.3	4.9	4.1	3.9	3.8	3.6	2.9	3.2	4.2	4.4	3.8	24	7.2	2.5	4.2
12/23/07	3.1	3.5	3.8	3.9	4.3	5.0	5.8	6.4	5.4	4.5	4.9	5.4	4.8	4.3	5.1	8.6	5.3	2.9	2.8	1.7	2.3	4.4	1.9	4.1	24	8.6	1.7	4.3
12/24/07	5.2	4.4	3.8	3.3	3.3	2.5	2.0	1.7	1.3	2.1	3.6	4.5	5.1	5.5	5.5	4.1	4.4	3.0	2.5	2.5	3.3	5.2	5.8	4.6	24	5.8	1.3	3.7
12/25/07	4.2	4.0	3.8	3.5	4.4	3.6	3.3	3.3	3.5	3.2	3.6	4.4	4.5	4.3	4.3	3.1	4.1	3.7	1.1	7.9	10.1	11.9	14.6	8.7	24	14.6	1.1	5.1
12/26/07	5.4	4.5	6.3	5.5	2.9	4.1	3.2	5.6	3.6	3.7	9.8	14.2	15.8	15.5	43.0	9.2	5.8	4.2	8.4	9.3	6.0	5.1	7.2	5.1	24	43.0	2.9	8.5
12/27/07	7.4	5.2	4.3	5.7	4.4	5.1	5.6	6.4	5.0	5.8	6.2	6.1	6.4	6.5	7.4	8.2	8.4	6.6	7.8	7.2	8.4	8.3	9.9	6.8	24	9.9	4.3	6.6
12/28/07	7.6	8.2	11.0	12.9	17.7	8.9	14.5	11.5	15.7	25.6	20.7	10.4	12.9	14.9	11.6	8.2	10.9	10.3	12.7	14.8	13.2	9.6	8.4	7.8	24	25.6	7.6	12.5
12/29/07	6.5	5.4	6.8	10.4	14.1	14.1	11.8	11.2	6.6	9.0	10.9	10.9	11.9	10.5	8.3	8.1	8.3	7.3	6.5	6.2	5.4	5.3	2.1	2.4	24	14.1	2.1	8.3
12/30/07	2.7	3.6	2.1	3.4	4.2	5.1	5.5	5.4	3.3	2.6	7.1	7.1	10.7	8.6	7.1	4.1	2.1	3.1	7.3	10.4	7.5	29.6	43.6	19.3	24	43.6	2.1	8.6
12/31/07	8.1	4.2	4.2	3.7	2.6	2.9	3.3	4.2	3.8	3.9	3.8	4.5	5.6	5.1	4.3	4.5	4.2	3.7	3.5	3.3	3.5	4.2	3.9	4.5	24	8.1	2.6	4.1
hr max	8.1	15.4	35.6	46.5	30.6	16.4	17.2	11.5	28.6	25.6	40.4	17.9	15.8	18.9	43.0	12.9	10.9	11.8	42.1	17.4	13.2	29.6	43.6	19.3				
hr min	1.8	1.0	1.1	1.4	1.3	1.4	1.5	1.7	1.3	1.6	1.3	2.5	2.7	2.9	3.5	3.0	1.9	1.7	1.1	0.7	1.3	1.0	1.8	1.1				
average	4.1	4.7	6.3	6.4	5.9	5.0	5.2	5.0	4.9	5.7	7.8	6.2	6.5	6.8	7.4	5.7	5.6	4.6	5.6	5.0	4.5	5.7	6.2	4.8				

monthly max hr	monthly min hr	monthly ave hr
46.5	0.7	5.6
12/8/07	12/16/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	662
possible hours	744
data capture	89.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
Deg
100sT

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
12/1/07	2.9	3.7	4.3	4.3	3.4	3.8	3.4	4.1	4.0	4.6	4.3	4.1	4.6	4.5	4.8	4.2	4.2	4.3	6.5	3.7	4.2	3.3	3.8	5.8	24	6.5	2.9	4.2
12/2/07	2.5	3.9	3.3	2.3	2.5	2.1	2.1	1.6	2.0	1.4	2.8	3.0	3.9	4.9	5.4	3.7	4.7	3.8	1.9	2.5	2.3	1.2	2.3	1.5	24	5.4	1.2	2.8
12/3/07	3.3	2.0	2.2	2.5	3.7	4.2	1.1	1.8	2.8	3.2	3.5	2.1	1.9	1.9	2.4	3.0	3.2	2.7	4.0	2.1	4.3	6.9	10.5	15.3	24	15.3	1.1	3.8
12/4/07	8.1	11.7	5.0	5.2	2.8	6.5	8.2	2.8	4.3	2.7															10	11.7	2.7	5.7
12/5/07																									0			
12/6/07																									0			
12/7/07													6.0	3.9	4.8	5.3	3.7	2.5	1.7	2.0	2.0	0.9	2.9	3.1	12	6.0	0.9	3.2
12/8/07	1.8	1.7	2.8	10.4	11.6	4.2	4.6	2.3	11.1	8.7	21.2	20.4	17.1	16.8	9.9	6.6	7.9	5.1	5.8	5.1	11.8	27.1	3.2	4.0	24	27.1	1.7	9.2
12/9/07	3.5	3.0	2.5	3.2	5.8	1.8	2.6	2.1	1.9	3.3	4.8	4.2	4.5	6.0	5.1	4.8	3.9	2.9	2.1	1.9	2.1	2.3	2.4	2.3	24	6.0	1.8	3.3
12/10/07	2.0	2.1	2.1	2.2	3.4	2.7	3.7	4.6	5.1	3.2	3.2	6.8	6.2	5.4	6.9	3.7	6.4	2.0	2.1	2.5	1.5	1.4	1.4	2.6	24	6.9	1.4	3.5
12/11/07	3.1	3.8	3.3	2.9	2.8	2.9	2.3	2.4	2.2	1.9	4.7	3.8	4.1	4.7	4.1	5.7	7.8	11.6	4.2	9.5	2.9	2.4	2.3	4.8	24	11.6	1.9	4.2
12/12/07	3.0	1.6	1.0	1.8	2.9	1.9	2.2	1.6	3.0	3.4	3.1	3.6	4.7	5.3	5.3	4.7	2.2	3.0	2.3	3.1	3.6	4.7	3.4	2.2	24	5.3	1.0	3.1
12/13/07	2.6	3.5	2.1	2.2	2.7	3.6	3.5	2.9	2.8	3.0	3.8	3.8	4.0	4.8	3.7	3.7	3.5	4.9	4.3	3.4	3.0	4.9	4.8	6.3	24	6.3	2.1	3.7
12/14/07	5.8	6.9	6.4	6.3	6.6	11.4	5.9	2.9	2.1	4.7	4.7	5.6	4.2	5.0	5.5	5.1	3.6	2.9	2.1	2.2	2.6	2.3	1.9	3.1	24	11.4	1.9	4.6
12/15/07	3.2	3.1	4.3	4.4	3.3	3.1	4.2	4.0	5.2	2.7	2.7	4.9	5.4	6.2	5.6	6.5	3.6	5.9	3.7	2.5	3.0	2.7	2.3	3.6	24	6.5	2.3	4.0
12/16/07	2.0	5.7	3.6	1.8	1.1	1.2	3.2	3.1	4.2	2.4	5.5	6.5	6.3	4.1	5.3	2.7	2.8	1.5	1.3	0.7	2.4	2.1	3.0	1.7	24	6.5	0.7	3.1
12/17/07	1.4	1.6	2.1	1.7	1.0	2.0	3.2	5.2	4.3	3.9	5.8	3.2	4.0	9.9	6.2	6.2	6.8	12.3	45.6	6.4	4.0	6.5	2.6	0.9	24	45.6	0.9	6.1
12/18/07	1.8	5.8	4.9	1.8	1.0	1.7	2.5	2.8	1.5									1.9	1.3	0.9	2.3	3.9	1.3	1.0	16	5.8	0.9	2.3
12/19/07	2.4	2.8	1.9	4.0	4.3	2.3	1.9	2.3	1.9	1.9	2.3	3.7	3.3	5.5	9.3	11.8	6.5	4.1	2.5	2.7	2.5	4.4	1.8	1.5	24	11.8	1.5	3.7
12/20/07	1.4	0.9	1.9	2.5	3.3	4.8	4.0	3.9	2.7	3.1	2.6	2.1	2.5	2.5	2.1	2.0	1.4	0.8	2.5	2.5	2.7	5.3	14.0	3.0	24	14.0	0.8	3.1
12/21/07	6.2	21.0	34.7	5.9	25.2	34.5	23.8	18.1	11.3	10.6	28.2	6.4	5.2	5.2	5.5	4.3	5.2	4.0	3.5	4.3	3.6	3.6	3.1	3.2	24	34.7	3.1	11.5
12/22/07	3.7	3.5	3.2	3.1	3.0	1.7	1.9	3.0	2.3	4.3	4.0	4.3	4.1	3.7	4.3	3.5	3.5	3.1	2.9	1.9	2.5	3.6	3.2	2.2	24	4.3	1.7	3.2
12/23/07	2.0	2.6	3.4	3.5	4.1	4.9	5.3	5.8	4.9	4.1	4.3	4.9	4.5	4.2	4.7	7.3	5.0	2.1	1.8	1.3	2.2	3.6	2.8	3.4	24	7.3	1.3	3.9
12/24/07	4.1	5.3	3.0	2.9	3.9	3.2	1.7	2.7	1.4	1.6	1.2	1.8	3.7	5.6	4.8	2.9	2.6	2.2	2.2	2.7	3.6	3.8	4.9	5.0	24	5.6	1.2	3.2
12/25/07	3.6	5.3	4.8	2.9	3.2	2.9	2.7	2.6	2.3	2.8	2.9	3.8	4.0	3.5	3.7	2.5	3.1	2.6	1.5	4.3	4.6	8.2	11.8	5.4	24	11.8	1.5	4.0
12/26/07	8.1	5.3	6.6	3.0	3.9	3.1	3.1	3.1	3.7	2.9	3.5	24.5	36.1	16.4	32.8	8.2	5.3	2.3	2.5	2.1	6.1	4.4	7.3	5.2	24	36.1	2.1	8.3
12/27/07	5.8	5.6	4.4	5.0	5.1	4.3	5.0	4.9	4.0	4.6	5.6	5.5	6.6	5.5	6.4	6.5	8.0	5.8	7.6	7.4	8.7	9.8	11.3	6.1	24	11.3	4.0	6.2
12/28/07	6.3	7.5	14.1	19.8	10.0	5.0	6.4	5.8	7.8	13.2	7.9	7.5	8.9	7.6	5.9	6.5	8.8	8.6	11.1	13.2	14.1	11.1	10.5	10.1	24	19.8	5.0	9.5
12/29/07	9.7	9.0	7.0	7.3	11.0	9.2	9.4	8.7	8.5	8.9	7.6	7.7	6.5	7.5	6.1	8.5	7.3	6.2	4.9	4.4	2.9	2.1	1.6	2.0	24	11.0	1.6	6.8
12/30/07	2.4	3.9	2.4	2.4	3.4	4.9	4.9	5.6	3.4	5.0	10.2	7.2	10.4	7.5	5.7	3.2	1.9	2.9	6.1	9.2	6.5	17.9	14.3	12.0	24	17.9	1.9	6.4
12/31/07	4.9	3.6	3.8	1.9	2.0	2.1	2.5	3.5	3.4	3.5	3.3	4.1	4.9	4.4	3.9	4.3	3.5	2.8	2.8	2.6	3.2	3.6	3.5	4.0	24	4.9	1.9	3.4
hr max	9.7	21.0	34.7	19.8	25.2	34.5	23.8	18.1	11.3	13.2	28.2	24.5	36.1	16.8	32.8	11.8	8.8	12.3	45.6	13.2	14.1	27.1	14.3	15.3				
hr min	1.4	0.9	1.0	1.7	1.0	1.2	1.1	1.6	1.4	1.4	1.2	1.8	1.9	1.9	2.1	2.0	1.4	0.8	1.3	0.7	1.5	0.9	1.3	0.9				
average	3.8	4.9	5.0	4.2	4.9	4.9	4.5	4.1	4.1	4.3	5.9	6.0	6.6	6.0	6.3	5.1	4.7	4.1	5.0	3.8	4.1	5.5	4.9	4.3				

monthly max hr	monthly min hr	monthly ave hr
45.6	0.7	4.9
12/17/07	12/16/07	

Validated by: *Roger L Thompson* Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	662
possible hours	744
data capture	89.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
mps
10VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
12/1/07	0.28	0.29	0.32	0.32	0.41	0.29	0.28	0.28	0.28	0.27	0.24	0.26	0.27	0.27	0.28	0.34	0.34	0.34	0.35	0.41	0.48	0.57	0.55	0.43	24	0.57	0.24	0.34
12/2/07	0.55	0.64	0.70	0.70	0.56	0.52	0.60	0.59	0.63	0.61	0.61	0.70	0.69	0.57	0.50	0.34	0.17	0.14	0.11	0.15	0.15	0.22	0.23	0.25	24	0.70	0.11	0.46
12/3/07	0.24	0.23	0.23	0.19	0.15	0.20	0.19	0.18	0.14	0.13	0.20	0.24	0.26	0.22	0.27	0.30	0.30	0.33	0.25	0.24	0.20	0.13	0.12	0.15	24	0.33	0.12	0.21
12/4/07	0.18	0.15	0.12	0.12	0.16	0.16	0.18	0.15	0.23	0.22															10	0.23	0.12	0.17
12/5/07																									0			
12/6/07																									0			
12/7/07													0.48	0.49	0.48	0.34	0.23	0.29	0.38	0.32	0.17	0.23	0.28	0.33	12	0.49	0.17	0.34
12/8/07	0.25	0.21	0.17	0.12	0.22	0.23	0.23	0.19	0.16	0.25	0.16	0.12	0.14	0.14	0.20	0.25	0.19	0.16	0.16	0.17	0.11	0.12	0.11	0.11	24	0.25	0.11	0.17
12/9/07	0.12	0.12	0.11	0.11	0.12	0.14	0.12	0.11	0.12	0.15	0.15	0.16	0.12	0.16	0.17	0.18	0.18	0.17	0.17	0.13	0.11	0.15	0.12	0.14	24	0.18	0.11	0.14
12/10/07	0.16	0.14	0.16	0.15	0.12	0.15	0.17	0.16	0.19	0.23	0.28	0.25	0.26	0.26	0.27	0.23	0.20	0.35	0.40	0.42	0.49	0.55	0.37	0.20	24	0.55	0.12	0.26
12/11/07	0.33	0.53	0.45	0.48	0.41	0.39	0.43	0.47	0.30	0.48	0.38	0.43	0.49	0.55	0.47	0.22	0.16	0.14	0.14	0.12	0.12	0.12	0.12	0.12	24	0.55	0.12	0.33
12/12/07	0.11	0.12	0.12	0.13	0.17	0.19	0.20	0.19	0.18	0.18	0.23	0.22	0.22	0.26	0.20	0.21	0.22	0.18	0.17	0.24	0.28	0.30	0.43	0.26	24	0.43	0.11	0.21
12/13/07	0.40	0.36	0.64	0.64	0.69	0.56	0.71	0.84	0.72	0.83	1.10	1.26	1.15	0.83	0.81	0.75	0.68	0.40	0.38	0.26	0.29	0.31	0.27	0.20	24	1.26	0.20	0.63
12/14/07	0.17	0.15	0.17	0.16	0.17	0.15	0.16	0.14	0.14	0.17	0.17	0.22	0.17	0.21	0.17	0.19	0.12	0.12	0.12	0.15	0.16	0.14	0.15	0.13	24	0.22	0.12	0.16
12/15/07	0.19	0.22	0.22	0.24	0.27	0.23	0.24	0.25	0.24	0.29	0.30	0.33	0.45	0.38	0.32	0.25	0.13	0.14	0.13	0.12	0.10	0.06	0.14	0.19	24	0.45	0.06	0.23
12/16/07	0.11	0.21	0.26	0.14	0.16	0.15	0.18	0.19	0.13	0.14	0.26	0.25	0.34	0.28	0.23	0.21	0.13	0.13	0.18	0.20	0.18	0.14	0.18	0.19	24	0.34	0.11	0.19
12/17/07	0.20	0.20	0.22	0.16	0.12	0.12	0.13	0.13	0.14	0.17	0.13	0.14	0.14	0.15	0.15	0.16	0.13	0.12	0.16	0.14	0.17	0.25	0.33	0.26	24	0.33	0.12	0.17
12/18/07	0.32	0.34	0.23	0.27	0.47	0.48	0.44	0.47	0.60									0.17	0.15	0.13	0.12	0.13	0.10	0.15	16	0.60	0.10	0.29
12/19/07	0.21	0.14	0.12	0.14	0.17	0.12	0.17	0.16	0.27	0.33	0.34	0.25	0.16	0.21	0.16	0.21	0.18	0.20	0.14	0.20	0.24	0.20	0.26	0.28	24	0.34	0.12	0.20
12/20/07	0.31	0.34	0.34	0.32	0.15	0.13	0.12	0.12	0.12	0.15	0.15	0.17	0.17	0.18	0.20	0.16	0.14	0.19	0.13	0.13	0.17	0.12	0.12	0.13	24	0.34	0.12	0.18
12/21/07	0.14	0.14	0.12	0.14	0.17	0.15	0.17	0.15	0.15	0.13	0.33	0.46	0.41	0.56	0.74	0.76	0.91	1.13	1.16	1.17	1.10	1.03	1.37	1.34	24	1.37	0.12	0.58
12/22/07	1.09	1.08	1.09	0.95	0.74	0.48	0.30	0.19	0.24	0.20	0.54	0.75	0.91	0.96	0.90	0.90	0.83	0.60	0.70	0.68	0.54	0.56	0.67	0.68	24	1.09	0.19	0.69
12/23/07	0.75	0.81	0.83	0.92	0.74	0.67	0.62	0.44	0.56	0.82	0.84	0.80	0.77	0.80	0.80	0.61	0.62	0.59	0.53	0.54	0.43	0.36	0.39	0.41	24	0.92	0.36	0.65
12/24/07	0.34	0.37	0.33	0.26	0.17	0.12	0.10	0.13	0.19	0.19	0.20	0.20	0.21	0.19	0.14	0.21	0.22	0.20	0.16	0.16	0.13	0.16	0.21	0.44	24	0.44	0.10	0.21
12/25/07	0.57	0.50	0.49	0.51	0.49	0.57	0.50	0.42	0.41	0.46	0.38	0.52	0.58	0.52	0.45	0.34	0.21	0.13	0.21	0.17	0.14	0.14	0.16	0.12	24	0.58	0.12	0.37
12/26/07	0.12	0.14	0.15	0.19	0.33	0.32	0.28	0.19	0.23	0.16	0.14	0.21	0.17	0.16	0.13	0.24	0.19	0.18	0.16	0.18	0.20	0.20	0.21	0.22	24	0.33	0.12	0.20
12/27/07	0.19	0.22	0.24	0.22	0.23	0.26	0.27	0.26	0.28	0.28	0.27	0.32	0.38	0.33	0.38	0.35	0.32	0.35	0.30	0.32	0.25	0.29	0.43	0.44	24	0.44	0.19	0.30
12/28/07	0.22	0.24	0.22	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.12	0.12	0.12	0.12	0.11	0.12	0.11	0.13	0.12	24	0.24	0.11	0.13
12/29/07	0.11	0.19	0.29	0.36	0.33	0.47	0.47	0.51	0.69	0.70	0.98	1.13	1.15	0.95	0.93	0.48	0.20	0.17	0.16	0.18	0.18	0.16	0.13	0.14	24	1.15	0.11	0.46
12/30/07	0.16	0.13	0.13	0.14	0.15	0.18	0.18	0.19	0.33	0.31	0.24	0.26	0.18	0.26	0.31	0.21	0.13	0.11	0.16	0.15	0.14	0.12	0.12	0.14	24	0.33	0.11	0.18
12/31/07	0.14	0.11	0.24	0.34	0.37	0.40	0.30	0.50	0.64	0.76	0.85	0.71	0.60	0.66	0.82	0.70	0.81	0.67	0.63	0.54	0.48	0.52	0.66	0.75	24	0.85	0.11	0.55
hr max	1.09	1.08	1.09	0.95	0.74	0.67	0.71	0.84	0.72	0.83	1.10	1.26	1.15	0.96	0.93	0.90	0.91	1.13	1.16	1.17	1.10	1.03	1.37	1.34				
hr min	0.11	0.11	0.11	0.11	0.12	0.12	0.10	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.12	0.12	0.11	0.11	0.11	0.10	0.06	0.10	0.11				
average	0.28	0.30	0.31	0.31	0.30	0.28	0.28	0.28	0.30	0.32	0.37	0.40	0.41	0.40	0.39	0.34	0.30	0.28	0.28	0.28	0.26	0.26	0.30	0.30				

monthly max hr	monthly min hr	monthly ave hr
1.37	0.06	0.31
12/21/07	12/15/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	662
possible hours	744
data capture	89.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
mps
50VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
12/1/07	0.47	0.44	0.41	0.47	0.58	0.47	0.39	0.34	0.34	0.25	0.26	0.25	0.26	0.14	0.10	0.18	0.18	0.22	0.19	0.23	0.25	0.31	0.33	0.26	24	0.58	0.10	0.31
12/2/07	0.35	0.36	0.39	0.44	0.37	0.38	0.38	0.45	0.63	0.54	0.44	0.32	0.31	0.24	0.34	0.26	0.16	0.36	0.37	0.59	0.67	0.79	0.76	0.85	24	0.85	0.16	0.45
12/3/07	0.34	0.34	0.15	0.25	0.34	0.49	0.79	0.80	0.09	0.17	0.55	0.53	0.46	0.47	0.45	0.43	0.27	0.43	0.14	0.16	0.12	0.04	0.04	0.20	24	0.80	0.04	0.34
12/4/07	0.14	0.06	0.12	0.27	0.56	0.36	0.20	0.22	0.59	0.65															10	0.65	0.06	0.32
12/5/07																									0			
12/6/07																									0			
12/7/07													0.50	0.40	0.47	0.35	0.38	0.43	0.47	0.37	0.45	0.19	0.24	0.15	12	0.50	0.15	0.37
12/8/07	0.08	0.03	0.08	0.02	0.07	-0.01	0.03	0.03	0.04	0.11	0.09	-0.06	-0.05	0.09	0.09	0.15	0.05	0.03	0.03	0.02	0.03	0.02	0.26	0.34	24	0.34	-0.06	0.07
12/9/07	0.31	0.36	0.46	0.54	0.51	0.58	0.47	0.51	0.48	0.30	0.31	0.47	0.30	0.36	0.34	0.47	0.35	0.55	0.22	-0.08	-0.10	0.09	-0.10	0.05	24	0.58	-0.10	0.32
12/10/07	0.14	0.08	0.11	0.06	0.08	0.07	0.25	0.52	0.60	0.75	0.66	0.49	0.54	0.50	0.45	0.49	0.60	0.77	0.65	0.65	0.82	0.68	0.54	0.39	24	0.82	0.06	0.45
12/11/07	0.30	0.55	0.40	0.42	0.40	0.38	0.50	0.47	0.45	0.47	0.27	0.25	0.29	0.39	0.27	0.11	0.07	0.10	0.20	0.23	0.24	0.25	0.34	0.44	24	0.55	0.07	0.32
12/12/07	0.68	0.74	0.75	0.75	0.64	0.42	0.51	0.29	0.26	0.40	0.45	0.47	0.47	0.52	0.48	0.51	0.60	0.79	0.92	0.96	0.84	0.77	0.90	0.99	24	0.99	0.26	0.63
12/13/07	0.97	0.87	1.13	1.08	1.08	0.99	1.02	1.17	1.13	1.18	1.14	1.18	1.06	0.59	0.62	0.60	0.66	0.22	0.16	0.20	0.14	0.09	0.04	0.03	24	1.18	0.03	0.72
12/14/07	0.03	0.03	0.14	0.06	0.10	0.03	0.03	0.03	0.15	0.07	0.10	0.13	0.16	0.29	0.01	0.16	0.04	0.21	0.10	0.04	0.18	0.26	0.31	0.29	24	0.31	0.01	0.12
12/15/07	0.35	0.39	0.33	0.29	0.35	0.36	0.54	0.51	0.45	0.56	0.41	0.34	0.31	0.50	0.28	0.15	0.14	0.18	0.26	0.32	0.42	0.61	0.51	0.49	24	0.61	0.14	0.38
12/16/07	0.49	0.64	0.60	0.49	0.76	0.82	0.96	0.89	0.76	0.74	0.59	0.26	0.55	0.47	0.44	0.64	0.53	0.90	1.01	0.97	0.93	0.71	0.72	0.97	24	1.01	0.26	0.70
12/17/07	1.01	0.90	0.75	0.71	0.63	0.57	0.48	0.19	0.02	0.18	0.26	0.25	0.15	0.28	0.12	0.06	0.04	0.07	0.02	0.12	0.41	0.58	0.66	0.62	24	1.01	0.02	0.38
12/18/07	0.68	0.50	0.50	0.78	1.03	0.93	0.86	1.00	1.13									0.03	0.02	0.02	0.03	0.06	0.15	0.06	16	1.13	0.02	0.49
12/19/07	0.02	0.20	0.09	0.19	0.17	0.30	0.54	0.48	0.74	0.79	0.60	0.31	0.09	0.15	0.13	0.18	0.04	0.02	0.02	0.03	0.06	0.05	0.03	-0.05	24	0.79	-0.05	0.22
12/20/07	-0.04	0.02	0.02	0.03	0.07	0.02	0.09	0.02	0.01	0.16	0.06	0.18	0.31	0.25	0.15	0.21	0.40	0.52	0.29	0.02	0.20	0.01	0.07	0.06	24	0.52	-0.04	0.13
12/21/07	0.21	0.07	0.06	0.08	0.06	0.05	0.06	0.06	0.08	0.10	0.05	0.01	0.11	0.20	0.34	0.39	0.53	0.38	0.38	0.42	0.42	0.33	0.40	0.37	24	0.53	0.01	0.22
12/22/07	0.37	0.33	0.26	0.26	0.20	0.12	0.11	0.09	0.11	0.13	0.15	0.19	0.15	0.24	0.20	0.19	0.20	0.14	0.20	0.15	0.09	0.15	0.17	0.15	24	0.37	0.09	0.18
12/23/07	0.17	0.15	0.11	0.10	0.13	0.18	0.22	0.11	0.16	0.13	0.20	0.17	0.11	0.15	0.07	0.21	0.14	0.10	0.09	0.14	0.20	0.10	0.04	0.03	24	0.22	0.03	0.13
12/24/07	0.00	0.08	0.07	0.01	0.02	0.12	0.39	0.43	0.53	0.12	0.35	0.29	0.25	0.12	0.15	0.06	0.06	0.11	0.36	0.27	0.06	0.10	0.16	0.20	24	0.53	0.00	0.18
12/25/07	0.23	0.29	0.28	0.22	0.15	0.16	0.16	0.13	0.14	0.14	0.06	0.10	0.19	0.17	0.11	0.08	0.04	0.04	0.02	0.02	0.05	0.03	0.04	0.07	24	0.29	0.02	0.12
12/26/07	0.13	0.18	0.11	0.12	0.03	0.03	0.05	0.05	0.07	0.04	0.12	0.05	-0.07	-0.04	0.08	0.19	0.26	0.47	0.40	0.26	0.23	0.17	0.18	0.19	24	0.47	-0.07	0.14
12/27/07	0.12	0.16	0.20	0.18	0.20	0.32	0.26	0.09	0.03	0.02	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	10	0.32	0.02	0.16
12/28/07	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	0			
12/29/07	rime	rime	rime	rime	rime	rime	0.02	0.02	0.06	0.07	0.19	0.57	1.05	0.77	1.17	0.40	0.19	0.05	0.08	0.19	0.09	0.18	0.03	0.02	18	1.17	0.02	0.29
12/30/07	0.02	-0.03	-0.01	0.03	0.03	0.06	0.04	0.05	0.02	0.03	0.05	0.04	0.07	0.10	0.08	0.03	0.02	0.02	0.03	0.06	0.04	0.02	0.02	0.08	24	0.10	-0.03	0.04
12/31/07	0.05	0.02	0.02	0.02	0.03	0.02	0.03	0.03	0.03	0.03	0.02	0.03	0.04	0.07	0.03	0.04	0.03	0.04	0.03	0.02	0.03	0.03	0.03	0.02	24	0.07	0.02	0.03
hr max	1.01	0.90	1.13	1.08	1.08	0.99	1.02	1.17	1.13	1.18	1.14	1.18	1.06	0.77	1.17	0.64	0.66	0.90	1.01	0.97	0.93	0.79	0.90	0.99				
hr min	-0.04	-0.03	-0.01	0.01	0.02	-0.01	0.02	0.02	0.01	0.02	0.02	-0.06	-0.07	-0.04	0.01	0.03	0.02	0.02	0.02	-0.08	-0.10	0.01	-0.10	-0.05				
average	0.29	0.30	0.29	0.30	0.33	0.32	0.35	0.33	0.34	0.31	0.31	0.28	0.30	0.30	0.28	0.26	0.24	0.28	0.26	0.25	0.27	0.25	0.26	0.28				

monthly max hr	monthly min hr	monthly ave hr
1.18	-0.10	0.29
12/13/07	12/9/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	618
possible hours	744
data capture	83.1%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
mps
100VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
12/1/07	0.39	0.40	0.36	0.38	0.43	0.35	0.34	0.32	0.33	0.21	0.29	0.26	0.33	0.22	0.28	0.34	0.34	0.43	0.43	0.41	0.39	0.51	0.59	0.43	24	0.59	0.21	0.37
12/2/07	0.51	0.60	0.57	0.65	0.51	0.46	0.43	0.67	0.54	0.35	0.58	0.35	0.28	0.32	0.35	0.26	0.20	0.09	0.02	0.06	0.02	0.00	0.64	0.62	24	0.67	0.00	0.38
12/3/07	0.72	0.26	0.35	0.46	0.63	0.57	0.60	0.60	0.06	0.20	0.25	0.37	0.36	0.03	0.28	0.08	0.31	0.38	0.19	0.00	0.07	0.09	0.07	0.11	24	0.72	0.00	0.29
12/4/07	0.08	0.04	0.05	-0.10	0.05	0.63	0.11	0.66	0.59	0.31															10	0.66	-0.10	0.24
12/5/07																									0			
12/6/07																									0			
12/7/07													0.73	0.65	0.75	0.47	0.60	0.74	0.83	0.85	1.08	1.00	0.90	0.84	12	1.08	0.47	0.79
12/8/07	0.94	0.79	0.58	0.17	0.21	0.26	0.27	0.33	0.18	0.16	0.14	0.00	-0.06	0.18	0.14	0.31	0.14	0.09	0.05	0.08	0.07	-0.03	0.03	0.04	24	0.94	-0.06	0.21
12/9/07	0.23	0.35	0.44	0.51	0.48	0.50	0.38	0.40	0.41	0.29	0.35	0.42	0.30	0.49	0.35	0.55	0.71	0.90	0.99	0.94	1.14	1.21	1.13	1.06	24	1.21	0.23	0.61
12/10/07	1.17	1.25	0.84	0.86	0.81	0.73	0.78	0.50	0.50	0.72	1.12	0.66	0.71	0.53	0.63	0.64	0.88	1.14	1.24	1.29	1.49	1.61	1.22	0.91	24	1.61	0.50	0.93
12/11/07	0.84	1.08	0.93	0.99	0.89	0.87	1.28	1.49	1.09	1.14	0.62	0.45	0.60	0.79	0.65	0.34	0.15	0.10	0.11	0.11	0.07	0.27	0.48	0.13	24	1.49	0.07	0.64
12/12/07	0.57	0.73	0.82	0.95	0.80	0.88	0.85	0.78	1.02	1.21	1.00	0.80	0.82	0.81	0.83	0.81	1.14	0.96	0.95	1.05	0.86	0.78	1.32	1.41	24	1.41	0.57	0.92
12/13/07	1.53	1.44	1.73	1.69	1.75	1.56	1.71	1.96	1.88	1.82	1.83	1.90	1.76	1.33	1.33	1.20	1.39	0.86	0.80	0.89	0.69	0.60	0.59	0.22	24	1.96	0.22	1.35
12/14/07	0.27	0.27	0.41	0.26	0.16	0.05	0.07	-0.32	-0.18	0.20	0.18	0.21	0.22	-0.18	0.45	0.76	0.67	0.61	0.60	0.92	0.90	0.79	0.69	0.63	24	0.92	-0.32	0.36
12/15/07	0.57	0.54	0.41	0.42	0.59	0.65	0.65	0.71	0.60	0.83	0.75	0.46	0.35	0.54	0.32	0.20	0.16	0.04	0.07	0.01	0.35	0.54	0.52	0.54	24	0.83	0.01	0.45
12/16/07	0.55	0.60	0.71	0.57	0.78	1.02	0.98	1.10	0.86	0.90	0.83	0.29	0.79	0.53	0.56	0.70	0.61	1.04	1.19	1.12	1.06	0.91	0.83	1.02	24	1.19	0.29	0.81
12/17/07	1.14	1.21	0.93	0.90	0.78	0.67	0.34	0.34	0.05	-0.07	0.13	0.11	0.17	0.39	0.05	0.03	0.01	0.06	0.05	0.21	0.51	0.65	0.74	0.99	24	1.21	-0.07	0.43
12/18/07	1.08	0.76	0.82	1.39	1.42	1.41	1.24	1.33	1.43									0.52	0.56	0.63	0.65	0.62	0.80	0.70	16	1.43	0.52	0.96
12/19/07	0.64	0.51	0.50	0.45	0.28	0.09	0.38	-0.74	0.30	0.27	0.62	0.11	-0.46	0.11	-0.07	0.33	0.17	0.29	0.36	0.62	0.69	0.68	0.77	0.78	24	0.78	-0.74	0.32
12/20/07	0.86	0.76	0.64	0.55	0.41	0.21	0.43	0.28	0.25	0.06	0.05	0.25	0.56	0.64	0.60	-0.58	-0.65	0.26	-0.19	0.44	0.30	0.07	-0.01	0.24	24	0.86	-0.65	0.27
12/21/07	0.07	0.03	0.03	-0.04	0.07	0.05	0.09	0.07	0.07	0.08	0.20	0.33	0.50	0.76	1.00	1.12	1.52	1.63	1.60	1.71	1.70	1.55	1.87	1.88	24	1.88	-0.04	0.75
12/22/07	1.64	1.45	1.51	1.40	1.22	1.07	0.92	0.64	0.71	0.88	1.03	1.03	1.10	1.34	1.16	1.28	1.16	1.09	1.39	1.38	1.10	1.18	1.47	1.48	24	1.64	0.64	1.19
12/23/07	1.49	1.45	1.27	1.30	1.00	0.95	1.06	0.73	0.85	1.18	1.31	1.11	0.95	1.03	0.84	0.89	0.90	1.05	1.18	1.32	1.16	1.01	0.96	0.92	24	1.49	0.73	1.08
12/24/07	0.88	0.75	0.38	0.46	0.61	0.54	0.61	0.61	0.72	0.72	0.82	0.83	0.86	0.46	0.48	0.64	0.36	0.96	0.77	0.71	0.55	0.51	0.73	1.05	24	1.05	0.36	0.67
12/25/07	1.15	1.04	1.06	1.07	0.97	1.01	0.93	0.82	0.89	0.97	0.75	0.74	0.80	0.74	0.61	0.53	0.42	0.36	0.43	0.17	0.07	0.03	0.08	0.11	24	1.15	0.03	0.66
12/26/07	0.17	0.33	0.42	0.40	0.53	0.30	0.20	0.22	0.11	0.12	0.23	0.07	-0.09	0.04	0.06	0.02	0.13	0.06	0.07	0.04	0.12	0.10	0.07	0.10	24	0.53	-0.09	0.16
12/27/07	0.04	0.10	0.15	0.12	0.12	0.23	0.18	0.22	0.20	0.14	0.00	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	11	0.23	0.00	0.14
12/28/07	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	0			
12/29/07	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	0.03	0.00	0.59	0.84	0.83	0.63		6	0.84	0.00	0.49
12/30/07	0.64	0.64	0.60	0.55	0.44	0.36	0.36	0.34	0.32	0.64	0.54	0.12	0.18	0.21	0.28	0.14	0.16	0.08	0.15	0.14	0.19	0.06	0.02	0.01	24	0.64	0.01	0.30
12/31/07	0.04	0.23	0.35	0.66	0.80	0.79	0.74	0.89	0.97	1.01	1.08	1.03	0.65	0.84	0.86	0.92	1.15	1.17	1.21	1.13	1.00	0.98	1.14	1.30	24	1.30	0.04	0.87
hr max	1.64	1.45	1.73	1.69	1.75	1.56	1.71	1.96	1.88	1.82	1.83	1.90	1.76	1.34	1.33	1.28	1.52	1.63	1.60	1.71	1.70	1.61	1.87	1.88				
hr min	0.04	0.03	0.03	-0.10	0.05	0.05	0.07	-0.74	-0.18	-0.07	0.00	0.00	-0.46	-0.18	-0.07	-0.58	-0.65	0.04	-0.19	0.00	0.02	-0.03	-0.01	0.01				
average	0.70	0.68	0.65	0.65	0.64	0.62	0.61	0.58	0.57	0.57	0.61	0.52	0.52	0.53	0.53	0.50	0.53	0.60	0.58	0.62	0.65	0.64	0.71	0.70				

monthly max hr	monthly min hr	monthly ave hr
1.96	-0.74	0.61
12/13/07	12/19/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	607
possible hours	744
data capture	81.6%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
Deg
10SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
12/1/07	0.42	0.48	0.49	0.48	0.55	0.47	0.44	0.42	0.42	0.38	0.35	0.40	0.40	0.38	0.37	0.34	0.34	0.29	0.25	0.21	0.24	0.26	0.34	0.26	24	0.55	0.21	0.37
12/2/07	0.25	0.33	0.31	0.34	0.24	0.22	0.25	0.25	0.23	0.25	0.28	0.25	0.26	0.26	0.23	0.18	0.10	0.08	0.05	0.14	0.16	0.26	0.30	0.34	24	0.34	0.05	0.23
12/3/07	0.29	0.29	0.28	0.18	0.15	0.13	0.17	0.19	0.10	0.15	0.24	0.26	0.26	0.23	0.23	0.23	0.16	0.18	0.13	0.13	0.11	0.07	0.12	0.19	24	0.29	0.07	0.19
12/4/07	0.20	0.19	0.11	0.11	0.23	0.27	0.20	0.21	0.26	0.28															10	0.28	0.11	0.21
12/5/07																									0			
12/6/07																									0			
12/7/07													0.33	0.25	0.24	0.16	0.12	0.12	0.10	0.12	0.11	0.13	0.11	0.14	12	0.33	0.10	0.16
12/8/07	0.14	0.13	0.11	0.09	0.18	0.18	0.16	0.11	0.18	0.26	0.31	0.32	0.34	0.31	0.23	0.21	0.12	0.08	0.08	0.08	0.04	0.07	0.05	0.05	24	0.34	0.04	0.16
12/9/07	0.07	0.08	0.07	0.10	0.08	0.11	0.12	0.17	0.23	0.25	0.36	0.40	0.37	0.42	0.45	0.40	0.27	0.19	0.23	0.16	0.17	0.15	0.16	0.15	24	0.45	0.07	0.22
12/10/07	0.20	0.14	0.13	0.11	0.08	0.10	0.15	0.10	0.13	0.18	0.20	0.23	0.31	0.33	0.29	0.23	0.16	0.15	0.13	0.14	0.23	0.27	0.15	0.13	24	0.33	0.08	0.18
12/11/07	0.21	0.28	0.26	0.26	0.22	0.20	0.27	0.31	0.16	0.19	0.21	0.21	0.24	0.33	0.28	0.16	0.10	0.15	0.11	0.13	0.03	0.11	0.09	0.13	24	0.33	0.03	0.19
12/12/07	0.13	0.08	0.04	0.15	0.15	0.23	0.22	0.18	0.19	0.25	0.30	0.40	0.44	0.46	0.47	0.42	0.33	0.27	0.19	0.19	0.26	0.25	0.29	0.19	24	0.47	0.04	0.25
12/13/07	0.28	0.33	0.41	0.41	0.42	0.40	0.51	0.52	0.48	0.54	0.59	0.62	0.55	0.43	0.40	0.36	0.35	0.17	0.15	0.13	0.11	0.12	0.15	0.13	24	0.62	0.11	0.36
12/14/07	0.11	0.15	0.25	0.24	0.23	0.21	0.17	0.16	0.20	0.25	0.33	0.36	0.37	0.37	0.33	0.30	0.23	0.12	0.20	0.25	0.24	0.25	0.27	0.26	24	0.37	0.11	0.24
12/15/07	0.30	0.24	0.22	0.19	0.17	0.15	0.12	0.12	0.10	0.11	0.12	0.15	0.21	0.23	0.20	0.15	0.06	0.08	0.06	0.03	0.09	0.14	0.09	0.13	24	0.30	0.03	0.14
12/16/07	0.11	0.14	0.15	0.09	0.11	0.15	0.23	0.25	0.19	0.22	0.31	0.30	0.27	0.30	0.30	0.24	0.11	0.12	0.11	0.15	0.12	0.08	0.12	0.16	24	0.31	0.08	0.18
12/17/07	0.17	0.16	0.15	0.09	0.00	0.11	0.17	0.14	0.20	0.14	0.24	0.28	0.31	0.32	0.27	0.23	0.08	0.05	0.10	0.07	0.08	0.13	0.15	0.13	24	0.32	0.00	0.16
12/18/07	0.13	0.11	0.12	0.24	0.25	0.23	0.22	0.28	0.34									0.09	0.08	0.04	0.03	0.08	0.07	0.11	16	0.34	0.03	0.15
12/19/07	0.14	0.07	0.00	-0.13	0.15	0.11	0.14	0.23	0.32	0.44	0.50	0.41	0.34	0.30	0.28	0.24	0.12	0.11	0.08	0.12	0.13	0.15	0.17	0.14	24	0.50	0.00	0.20
12/20/07	0.16	0.13	0.10	0.14	0.11	0.07	0.06	0.00	0.00	0.19	0.18	0.27	0.33	0.33	0.32	0.26	0.17	0.17	0.13	0.06	0.11	0.06	0.10	0.09	24	0.33	0.00	0.15
12/21/07	0.09	0.11	0.08	0.09	0.12	0.10	0.11	0.11	0.10	0.11	0.20	0.24	0.29	0.36	0.52	0.57	0.62	0.57	0.64	0.63	0.63	0.55	0.53	0.56	24	0.64	0.08	0.33
12/22/07	0.57	0.50	0.48	0.42	0.38	0.24	0.20	0.25	0.15	0.28	0.48	0.50	0.46	0.51	0.44	0.45	0.41	0.33	0.35	0.37	0.31	0.39	0.42	0.42	24	0.57	0.15	0.39
12/23/07	0.41	0.43	0.49	0.49	0.45	0.44	0.41	0.36	0.42	0.54	0.53	0.45	0.44	0.44	0.42	0.41	0.34	0.19	0.25	0.18	0.20	0.20	0.12	0.18	24	0.54	0.12	0.37
12/24/07	0.16	0.13	0.15	0.15	0.11	0.10	0.14	0.14	0.19	0.20	0.26	0.34	0.39	0.35	0.33	0.34	0.32	0.29	0.19	0.13	0.08	0.09	0.12	0.29	24	0.39	0.08	0.21
12/25/07	0.33	0.40	0.41	0.30	0.28	0.28	0.26	0.19	0.19	0.24	0.25	0.30	0.32	0.29	0.26	0.21	0.12	0.07	0.13	0.10	0.06	0.08	0.09	0.05	24	0.41	0.05	0.22
12/26/07	0.11	0.12	0.15	0.13	0.15	0.12	0.13	0.14	0.14	0.11	0.20	0.27	0.32	0.30	0.32	0.27	0.14	0.11	0.14	0.16	0.21	0.19	0.17	0.19	24	0.32	0.11	0.18
12/27/07	0.16	0.18	0.17	0.15	0.16	0.17	0.15	0.15	0.15	0.14	0.15	0.16	0.16	0.15	0.15	0.15	0.14	0.13	0.13	0.13	0.12	0.13	0.15	0.12	24	0.18	0.12	0.15
12/28/07	0.14	0.12	0.12	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.02	0.03	0.02	0.02	0.04	0.05	0.07	0.11	0.10	24	0.14	0.00	0.04
12/29/07	0.10	0.17	0.18	0.17	0.15	0.16	0.13	0.18	0.25	0.20	0.25	0.31	0.34	0.31	0.31	0.38	0.31	0.26	0.24	0.27	0.25	0.21	0.15	0.16	24	0.38	0.10	0.23
12/30/07	0.21	0.19	0.14	0.11	0.12	0.13	0.12	0.13	0.14	0.15	0.18	0.21	0.21	0.22	0.20	0.19	0.08	0.08	0.09	0.09	0.08	0.11	0.05	0.10	24	0.22	0.05	0.14
12/31/07	0.05	0.21	0.16	0.20	0.18	0.22	0.18	0.34	0.41	0.44	0.46	0.45	0.40	0.44	0.42	0.42	0.42	0.35	0.34	0.29	0.30	0.31	0.38	0.37	24	0.46	0.05	0.32
hr max	0.57	0.50	0.49	0.49	0.55	0.47	0.51	0.52	0.48	0.54	0.59	0.62	0.55	0.51	0.52	0.57	0.62	0.57	0.64	0.63	0.63	0.55	0.53	0.56				
hr min	0.05	0.07	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.02	0.03	0.02	0.02	0.03	0.03	0.06	0.05	0.05				
average	0.20	0.21	0.20	0.20	0.19	0.19	0.19	0.20	0.21	0.24	0.29	0.31	0.32	0.32	0.31	0.28	0.21	0.17	0.17	0.16	0.16	0.18	0.18	0.19				

monthly max hr	monthly min hr	monthly ave hr
0.64	0.00	0.22
12/21/07	12/17/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	662
possible hours	744
data capture	89.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
Deg
50SW

data channel Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
12/1/07	0.41	0.58	0.65	0.64	0.65	0.59	0.51	0.47	0.51	0.49	0.37	0.42	0.47	0.45	0.40	0.36	0.36	0.32	0.28	0.29	0.33	0.44	0.47	0.35	24	0.65	0.28	0.45
12/2/07	0.35	0.50	0.50	0.46	0.33	0.27	0.34	0.36	0.21	0.24	0.38	0.44	0.49	0.52	0.35	0.24	0.17	0.14	0.16	0.12	0.10	0.10	0.20	0.23	24	0.52	0.10	0.30
12/3/07	0.27	0.28	0.29	0.29	0.28	0.29	0.10	0.21	0.23	0.24	0.20	0.23	0.32	0.22	0.24	0.22	0.20	0.10	0.17	0.22	0.16	0.07	0.24	0.38	24	0.38	0.07	0.23
12/4/07	0.20	0.11	0.15	0.29	0.27	0.36	0.25	0.24	0.44	0.28															10	0.44	0.11	0.26
12/5/07																									0			
12/6/07																									0			
12/7/07													0.67	0.50	0.39	0.31	0.20	0.10	0.08	0.12	0.10	0.20	0.18	0.26	12	0.67	0.08	0.26
12/8/07	0.15	0.08	0.14	0.12	0.27	0.21	0.17	0.05	0.19	0.38	0.53	0.41	0.41	0.44	0.38	0.32	0.13	0.04	0.02	0.18	0.04	0.13	0.12	0.10	24	0.53	0.02	0.21
12/9/07	0.09	0.10	0.10	0.14	0.11	0.09	0.10	0.11	0.15	0.26	0.44	0.44	0.44	0.50	0.60	0.47	0.30	0.18	0.32	0.16	0.14	0.21	0.14	0.26	24	0.60	0.09	0.24
12/10/07	0.28	0.21	0.23	0.22	0.19	0.17	0.27	0.10	0.12	0.21	0.29	0.37	0.41	0.46	0.39	0.24	0.17	0.12	0.16	0.15	0.17	0.30	0.16	0.20	24	0.46	0.10	0.23
12/11/07	0.34	0.42	0.42	0.41	0.32	0.31	0.38	0.43	0.18	0.23	0.32	0.35	0.46	0.57	0.44	0.25	0.10	0.11	0.10	0.13	0.14	0.18	0.14	0.25	24	0.57	0.10	0.29
12/12/07	0.16	0.08	0.07	0.09	0.17	0.36	0.29	0.27	0.24	0.35	0.43	0.41	0.44	0.54	0.56	0.47	0.33	0.12	0.09	0.11	0.20	0.15	0.29	0.14	24	0.56	0.07	0.27
12/13/07	0.33	0.41	0.41	0.47	0.53	0.56	0.68	0.73	0.70	0.70	0.94	0.98	0.85	0.70	0.61	0.58	0.56	0.33	0.25	0.21	0.20	0.17	0.08	0.07	24	0.98	0.07	0.50
12/14/07	0.10	0.19	0.28	0.25	0.30	0.20	0.16	0.16	0.19	0.23	0.33	0.48	0.46	0.49	0.37	0.30	0.21	0.19	0.25	0.21	0.25	0.23	0.24	0.27	24	0.49	0.10	0.26
12/15/07	0.24	0.19	0.21	0.18	0.14	0.13	0.12	0.13	0.11	0.08	0.20	0.29	0.40	0.50	0.42	0.24	0.11	0.10	0.19	0.10	0.19	0.09	0.10	0.10	24	0.50	0.08	0.19
12/16/07	0.09	0.19	0.19	0.19	0.08	0.10	0.11	0.14	0.13	0.11	0.43	0.47	0.39	0.40	0.36	0.17	0.19	0.12	0.07	0.06	0.07	0.09	0.10	0.08	24	0.47	0.06	0.18
12/17/07	0.07	0.08	0.08	0.08	0.09	0.09	0.22	0.20	0.00	0.22	0.28	0.28	0.40	0.35	0.34	0.24	0.07	0.10	0.16	0.16	0.11	0.12	0.13	0.10	24	0.40	0.00	0.17
12/18/07	0.14	0.14	0.16	0.45	0.19	0.13	0.14	0.21	0.23									0.04	0.04	0.01	0.04	0.12	0.16	0.10	16	0.45	0.01	0.14
12/19/07	0.00	0.19	0.15	0.27	0.21	0.25	0.10	0.29	0.23	0.33	0.52	0.54	0.40	0.35	0.36	0.32	0.14	0.00	0.04	0.04	0.10	0.09	0.09	0.14	24	0.54	0.00	0.21
12/20/07	0.17	0.00	0.00	0.10	0.13	0.09	0.11	0.00	0.07	0.23	0.12	0.26	0.27	0.27	0.30	0.32	0.20	0.15	0.31	0.12	0.18	0.09	0.12	0.12	24	0.32	0.00	0.16
12/21/07	0.17	0.13	0.10	0.12	0.13	0.14	0.21	0.18	0.23	0.17	0.21	0.36	0.39	0.57	0.71	0.87	0.87	0.96	1.06	1.08	0.99	0.87	0.99	1.02	24	1.08	0.10	0.52
12/22/07	0.98	0.86	0.87	0.75	0.60	0.29	0.25	0.42	0.18	0.45	0.75	0.85	0.83	0.85	0.78	0.76	0.73	0.53	0.51	0.48	0.44	0.59	0.67	0.63	24	0.98	0.18	0.63
12/23/07	0.58	0.68	0.78	0.85	0.76	0.79	0.76	0.56	0.67	0.89	0.86	0.84	0.75	0.77	0.81	0.71	0.58	0.36	0.31	0.29	0.28	0.28	0.07	0.19	24	0.89	0.07	0.60
12/24/07	0.23	0.15	0.12	0.06	0.00	0.17	0.10	0.10	0.10	0.20	0.30	0.32	0.38	0.37	0.35	0.32	0.32	0.31	0.27	0.22	0.11	0.15	0.18	0.32	24	0.38	0.00	0.21
12/25/07	0.50	0.55	0.56	0.39	0.42	0.44	0.38	0.29	0.25	0.34	0.32	0.48	0.52	0.47	0.40	0.25	0.14	0.08	0.02	0.03	0.08	0.06	0.14	0.11	24	0.56	0.02	0.30
12/26/07	0.19	0.21	0.20	0.14	0.09	0.04	0.20	0.11	0.11	0.14	0.18	0.38	0.39	0.38	0.52	0.41	0.18	0.14	0.24	0.21	0.19	0.18	0.19	0.22	24	0.52	0.04	0.22
12/27/07	0.16	0.18	0.21	0.19	0.18	0.20	0.21	0.21	0.13	0.02	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	10	0.21	0.02	0.17
12/28/07	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	0			
12/29/07	rime	rime	rime	rime	rime	rime	0.06	0.09	0.11	0.13	0.25	0.56	0.48	0.44	0.37	0.34	0.29	0.26	0.25	0.31	0.31	0.27	0.16	0.16	18	0.56	0.06	0.27
12/30/07	0.15	0.16	0.17	0.17	0.15	0.16	0.15	0.15	0.16	0.17	0.19	0.17	0.16	0.25	0.19	0.16	0.16	0.15	0.14	0.13	0.13	0.09	0.01	0.36	24	0.36	0.01	0.16
12/31/07	0.18	0.15	0.17	0.17	0.17	0.17	0.17	0.20	0.20	0.22	0.18	0.23	0.25	0.29	0.18	0.20	0.18	0.17	0.18	0.17	0.18	0.18	0.17	0.17	24	0.29	0.15	0.19
hr max	0.98	0.86	0.87	0.85	0.76	0.79	0.76	0.73	0.70	0.89	0.94	0.98	0.85	0.85	0.81	0.87	0.87	0.96	1.06	1.08	0.99	0.87	0.99	1.02				
hr min	0.00	0.00	0.00	0.06	0.00	0.04	0.06	0.00	0.00	0.02	0.12	0.17	0.16	0.22	0.18	0.16	0.07	0.00	0.02	0.01	0.04	0.06	0.01	0.07				
average	0.25	0.26	0.28	0.29	0.26	0.25	0.24	0.24	0.22	0.28	0.38	0.44	0.46	0.47	0.43	0.36	0.28	0.20	0.22	0.20	0.20	0.21	0.21	0.24				

monthly max hr	monthly min hr	monthly ave hr
1.08	0.00	0.28
12/21/07	12/17/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	618
possible hours	744
data capture	83.1%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
Deg
100SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
12/1/07	0.34	0.57	0.66	0.62	0.62	0.56	0.48	0.51	0.53	0.50	0.38	0.39	0.40	0.40	0.38	0.34	0.34	0.26	0.21	0.22	0.29	0.39	0.37	0.33	24	0.66	0.21	0.42
12/2/07	0.28	0.43	0.46	0.40	0.32	0.26	0.33	0.25	0.29	0.33	0.30	0.43	0.49	0.54	0.34	0.25	0.25	0.17	0.09	0.12	0.12	0.00	0.13	0.09	24	0.54	0.00	0.28
12/3/07	0.12	0.32	0.34	0.14	0.25	0.35	0.10	0.25	0.19	0.18	0.19	0.22	0.25	0.13	0.28	0.23	0.22	0.13	0.19	0.00	0.15	0.12	0.31	0.35	24	0.35	0.00	0.21
12/4/07	0.23	0.12	0.13	0.48	0.60	0.49	0.56	0.30	0.48	0.39															10	0.60	0.12	0.38
12/5/07																									0			
12/6/07																									0			
12/7/07													0.80	0.56	0.47	0.37	0.24	0.09	0.08	0.16	0.10	0.09	0.12	0.23	12	0.80	0.08	0.28
12/8/07	0.14	0.14	0.22	0.21	0.27	0.22	0.17	0.13	0.22	0.31	0.53	0.37	0.35	0.43	0.42	0.41	0.16	0.10	0.09	0.11	0.12	0.10	0.08	0.10	24	0.53	0.08	0.23
12/9/07	0.16	0.12	0.11	0.21	0.11	0.10	0.10	0.10	0.09	0.22	0.38	0.46	0.50	0.57	0.69	0.52	0.28	0.16	0.12	0.09	0.14	0.13	0.12	0.09	24	0.69	0.09	0.23
12/10/07	0.17	0.11	0.27	0.37	0.16	0.17	0.16	0.22	0.18	0.23	0.30	0.36	0.39	0.41	0.36	0.21	0.15	0.15	0.14	0.21	0.18	0.17	0.12	0.19	24	0.41	0.11	0.22
12/11/07	0.27	0.39	0.43	0.36	0.29	0.31	0.40	0.27	0.12	0.14	0.36	0.34	0.53	0.63	0.48	0.27	0.14	0.14	0.15	0.13	0.13	0.23	0.10	0.20	24	0.63	0.10	0.28
12/12/07	0.28	0.16	0.11	0.06	0.09	0.09	0.09	0.09	0.17	0.18	0.29	0.34	0.45	0.61	0.61	0.53	0.21	0.14	0.11	0.20	0.20	0.23	0.24	0.16	24	0.61	0.06	0.24
12/13/07	0.28	0.43	0.31	0.34	0.47	0.59	0.71	0.65	0.60	0.54	0.94	0.96	0.81	0.72	0.54	0.54	0.48	0.29	0.18	0.24	0.20	0.15	0.13	0.20	24	0.96	0.13	0.47
12/14/07	0.17	0.22	0.28	0.25	0.23	0.16	0.16	0.37	0.31	0.24	0.20	0.26	0.30	0.65	0.64	0.36	0.29	0.28	0.34	0.13	0.11	0.13	0.11	0.22	24	0.65	0.11	0.27
12/15/07	0.16	0.16	0.18	0.16	0.16	0.14	0.11	0.08	0.12	0.13	0.26	0.36	0.38	0.55	0.49	0.28	0.14	0.09	0.17	0.04	0.23	0.09	0.09	0.09	24	0.55	0.04	0.19
12/16/07	0.08	0.25	0.25	0.19	0.12	0.12	0.15	0.16	0.12	0.10	0.49	0.51	0.38	0.36	0.36	0.14	0.23	0.11	0.09	0.06	0.09	0.09	0.08	0.08	24	0.51	0.06	0.19
12/17/07	0.16	0.10	0.11	0.07	0.08	0.12	0.17	0.19	0.57	0.26	0.48	0.37	0.34	0.38	0.37	0.18	0.10	0.13	0.09	0.17	0.18	0.12	0.09	0.17	24	0.57	0.07	0.21
12/18/07	0.12	0.13	0.15	0.41	0.10	0.08	0.15	0.26	0.13									0.09	0.08	0.08	0.09	0.12	0.10	0.09	16	0.41	0.08	0.14
12/19/07	0.14	0.13	0.16	0.27	0.27	0.58	0.40	0.69	0.22	0.20	0.23	0.51	0.55	0.57	0.47	0.34	0.18	0.18	0.17	0.10	0.11	0.18	0.10	0.09	24	0.69	0.09	0.29
12/20/07	0.09	0.12	0.09	0.11	0.18	0.16	0.15	0.11	0.12	0.13	0.12	0.28	0.22	0.25	0.37	0.74	0.75	0.19	0.69	0.11	0.15	0.12	0.10	0.21	24	0.75	0.09	0.23
12/21/07	0.26	0.09	0.12	0.32	0.14	0.20	0.36	0.22	0.21	0.21	0.36	0.48	0.39	0.53	0.74	0.78	0.81	0.83	0.96	1.00	0.91	0.77	0.83	0.79	24	1.00	0.09	0.51
12/22/07	0.88	0.76	0.77	0.66	0.53	0.21	0.12	0.49	0.19	0.34	0.61	0.83	0.81	0.79	0.76	0.64	0.67	0.47	0.31	0.29	0.33	0.53	0.46	0.31	24	0.88	0.12	0.53
12/23/07	0.31	0.45	0.73	0.78	0.75	0.83	0.75	0.60	0.67	0.83	0.84	0.79	0.76	0.70	0.84	0.72	0.50	0.22	0.16	0.14	0.24	0.17	0.11	0.17	24	0.84	0.11	0.54
12/24/07	0.16	0.18	0.23	0.24	0.11	0.09	0.09	0.09	0.07	0.07	0.27	0.35	0.33	0.41	0.39	0.39	0.47	0.16	0.23	0.15	0.11	0.12	0.27	0.32	24	0.47	0.07	0.22
12/25/07	0.40	0.47	0.46	0.21	0.32	0.37	0.28	0.18	0.14	0.19	0.23	0.48	0.44	0.42	0.39	0.23	0.17	0.13	0.09	0.15	0.10	0.08	0.12	0.16	24	0.48	0.08	0.26
12/26/07	0.25	0.21	0.17	0.11	0.17	0.12	0.18	0.17	0.13	0.14	0.23	0.26	0.27	0.37	0.56	0.38	0.17	0.16	0.25	0.19	0.20	0.20	0.16	0.22	24	0.56	0.11	0.22
12/27/07	0.15	0.15	0.19	0.17	0.17	0.22	0.20	0.21	0.19	0.19	0.08	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	11	0.22	0.08	0.17
12/28/07	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	0			
12/29/07	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	rime	0.08	0.07	0.46	0.13	0.08	0.12	6	0.46	0.07	0.16
12/30/07	0.09	0.11	0.11	0.11	0.13	0.13	0.22	0.18	0.22	0.18	0.35	0.40	0.27	0.51	0.45	0.27	0.16	0.12	0.17	0.14	0.13	0.16	0.06	0.05	24	0.51	0.05	0.20
12/31/07	0.09	0.15	0.15	0.16	0.13	0.14	0.22	0.47	0.52	0.67	0.68	0.72	0.73	0.75	0.61	0.71	0.61	0.39	0.45	0.35	0.41	0.45	0.55	0.49	24	0.75	0.09	0.44
hr max	0.88	0.76	0.77	0.78	0.75	0.83	0.75	0.69	0.67	0.83	0.94	0.96	0.81	0.79	0.84	0.78	0.81	0.83	0.96	1.00	0.91	0.77	0.83	0.79				
hr min	0.08	0.09	0.09	0.06	0.08	0.08	0.09	0.08	0.07	0.07	0.08	0.22	0.22	0.13	0.28	0.14	0.10	0.09	0.08	0.00	0.09	0.00	0.06	0.05				
average	0.22	0.25	0.28	0.29	0.26	0.26	0.26	0.28	0.26	0.28	0.38	0.46	0.46	0.51	0.50	0.41	0.32	0.21	0.22	0.18	0.21	0.20	0.19	0.21				

monthly max hr	monthly min hr	monthly ave hr
1.00	0.00	0.29
12/21/07	12/2/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	607
possible hours	744
data capture	81.6%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
degC
2mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
12/1/07	-6.2	-6.1	-6.4	-7.0	-7.6	-8.1	-8.5	-8.7	-8.7	-8.4	-8.1	-7.6	-7.4	-7.5	-7.6	-8.2	-8.2	-9.1	-9.3	-9.1	-9.1	-9.1	-9.4	-9.9	24	-6.1	-9.9	-8.1
12/2/07	-10.5	-10.0	-10.9	-12.8	-14.8	-16.1	-15.9	-16.3	-16.6	-16.2	-15.1	-13.5	-12.5	-11.8	-11.4	-11.3	-12.2	-16.2	-17.9	-16.9	-16.3	-14.7	-13.3	-12.1	24	-10.0	-17.9	-14.0
12/3/07	-11.3	-11.4	-11.0	-10.5	-12.3	-14.2	-12.8	-10.7	-11.0	-9.1	-6.1	-3.8	-1.2	0.1	0.5	-0.2	-1.7	-2.5	-1.1	0.0	-0.4	-0.8	-2.1	-4.8	24	0.5	-14.2	-5.8
12/4/07	-8.7	-10.2	-9.3	-9.4	-8.8	-7.5	-7.4	-7.4	-6.0	-4.9	-1.1	2.9	4.1	6.3	7.1	6.8	10.7	0.5	-0.6	-4.9	-7.5	-8.5	-8.6	-9.1	24	10.7	-10.2	-3.4
12/5/07	-9.5	-9.8	-10.4	-11.2	-12.0	-13.7	-15.8	-16.4	-16.2	-14.2	-13.2	-12.4	-11.5	-11.1	-10.9	-10.8	-10.8	-11.0	-10.6	-10.1	-9.4	-8.0	-7.4	-6.9	24	-6.9	-16.4	-11.4
12/6/07	-6.3	-5.9	-5.3	-4.6	-4.0	-4.3	-4.8	-6.1	-7.2	-7.0	-6.2	-6.0	-7.2	-7.9	-7.9	-9.0	-11.2	-13.0	-13.4	-15.1	-15.7	-14.9	-14.7	-15.3	24	-4.0	-15.7	-8.9
12/7/07	-15.9	-15.2	-15.7	-14.8	-13.9	-14.8	-14.8	-15.5	-15.9	-14.0	-12.6	-10.9	-9.1	-8.3	-7.8	-7.9	-9.8	-12.4	-13.3	-14.3	-14.1	-15.1	-15.6	-15.7	24	-7.8	-15.9	-13.2
12/8/07	-16.9	-18.1	-17.7	-16.1	-15.1	-15.8	-16.1	-16.9	-15.8	-14.7	-14.1	-13.5	-12.6	-11.8	-10.9	-10.8	-11.6	-12.6	-13.6	-14.8	-14.3	-15.5	-14.8	-14.9	24	-10.8	-18.1	-14.5
12/9/07	-15.0	-14.9	-15.8	-15.3	-14.4	-14.3	-13.1	-12.6	-11.6	-10.1	-8.6	-8.3	-7.6	-7.0	-5.9	-6.9	-8.4	-10.6	-10.8	-12.3	-12.8	-13.4	-12.9	-12.5	24	-5.9	-15.8	-11.5
12/10/07	-13.6	-14.8	-14.7	-15.5	-16.7	-17.5	-15.4	-16.6	-15.9	-12.9	-11.5	-7.8	-5.3	-3.3	-2.2	-1.6	-2.7	-4.8	-5.8	-7.0	-6.2	-5.9	-7.2	-7.2	24	-1.6	-17.5	-9.7
12/11/07	-5.0	-4.2	-4.4	-4.1	-4.0	-4.7	-7.3	-7.8	-10.1	-8.6	-6.7	-5.4	-4.6	-4.0	-3.6	-3.9	-5.4	-7.4	-9.1	-10.5	-11.5	-12.3	-13.0	-12.2	24	-3.6	-13.0	-7.1
12/12/07	-12.2	-13.6	-14.1	-13.3	-12.7	-12.6	-13.4	-13.7	-13.7	-11.7	-9.3	-7.1	-4.7	-3.5	-3.2	-3.1	-4.1	-5.7	-7.0	-6.1	-3.5	-2.6	-2.3	-4.8	24	-2.3	-14.1	-8.3
12/13/07	-3.7	-3.5	-2.4	-2.7	-2.7	-3.1	-3.1	-3.1	-3.4	-2.7	-1.2	-0.4	-0.4	-1.1	-1.8	-2.6	-3.9	-7.1	-8.7	-9.6	-10.2	-10.8	-11.7	-13.7	24	-0.4	-13.7	-4.7
12/14/07	-14.7	-14.9	-14.7	-15.8	-15.6	-15.4	-15.3	-15.5	-15.2	-14.0	-12.2	-10.4	-9.3	-8.7	-8.1	-7.4	-7.5	-9.1	-8.3	-8.8	-9.3	-8.5	-8.2	-6.2	24	-6.2	-15.8	-11.4
12/15/07	-6.5	-5.9	-5.7	-6.7	-7.8	-8.0	-8.2	-8.3	-8.6	-8.3	-6.1	-4.4	-3.0	-1.5	-0.6	-0.9	-2.1	-5.3	-7.7	-8.3	-9.0	-9.8	-10.1	-10.2	24	-0.6	-10.2	-6.4
12/16/07	-10.5	-10.1	-10.2	-11.3	-11.4	-11.1	-8.1	-7.6	-9.0	-8.0	-4.2	-1.8	-0.5	1.2	2.3	2.4	0.2	-2.4	-5.1	-3.8	-6.0	-6.9	-6.6	-6.6	24	2.4	-11.4	-5.6
12/17/07	-7.0	-7.7	-7.6	-7.5	-9.0	-9.2	-8.9	-8.8	-8.0	-7.3	-4.6	-1.1	1.1	1.6	1.2	0.9	-1.6	-4.5	-7.4	-8.3	-7.3	-5.9	-5.6	-6.0	24	1.6	-9.2	-5.4
12/18/07	-3.9	-4.4	-4.9	-4.0	-2.5	-2.8	-3.2	-3.3	-2.8	-1.9	-0.6	1.1	2.6	8.6	4.3	3.7	1.9	-1.1	-2.8	-2.4	-4.1	-5.4	-6.2	-6.0	24	8.6	-6.2	-1.7
12/19/07	-5.0	-6.7	-7.1	-6.6	-6.7	-7.7	-5.4	-4.6	-3.1	-2.0	0.5	1.1	1.3	1.7	2.2	2.3	0.7	-2.7	-4.1	-4.9	-3.9	-4.1	-3.5	-2.6	24	2.3	-7.7	-3.0
12/20/07	-2.6	-2.0	-2.5	-2.1	-5.0	-4.7	-4.0	-2.4	-4.2	-2.9	-1.0	0.7	2.1	4.1	3.5	3.0	1.7	1.1	-0.5	-2.6	-4.1	-4.5	-4.9	-2.8	24	4.1	-5.0	-1.5
12/21/07	-3.4	-4.6	-3.9	-2.3	-2.7	-3.6	-3.5	-2.6	-2.7	-1.4	0.0	-0.3	0.4	0.3	0.7	0.7	-0.8	-5.0	-6.7	-7.0	-7.3	-7.3	-8.9	-11.0	24	0.7	-11.0	-3.5
12/22/07	-10.8	-10.9	-11.1	-11.4	-12.9	-14.9	-16.1	-16.4	-16.5	-13.4	-10.5	-8.5	-7.5	-7.9	-8.6	-9.9	-11.2	-13.0	-13.9	-14.5	-15.1	-15.1	-14.9	-15.4	24	-7.5	-16.5	-12.5
12/23/07	-15.8	-15.7	-15.4	-15.2	-14.5	-14.0	-14.1	-14.6	-14.1	-13.7	-10.9	-9.4	-8.4	-7.6	-6.4	-6.8	-8.2	-9.8	-10.4	-11.5	-12.0	-12.5	-13.8	-13.6	24	-6.4	-15.8	-12.0
12/24/07	-13.9	-14.1	-12.8	-12.3	-14.0	-12.9	-11.1	-11.8	-10.6	-9.1	-7.8	-5.8	-2.9	-1.2	-0.6	0.1	-0.1	-0.9	-1.8	-3.0	-3.0	-1.6	-1.1	0.0	24	0.1	-14.1	-6.3
12/25/07	0.6	0.8	0.5	0.4	0.2	-0.1	-0.2	-0.5	-0.8	-0.8	-0.5	-0.3	-0.3	-0.1	-0.1	-0.3	-1.3	-2.8	-5.7	-6.0	-8.5	-9.8	-7.0	-5.4	24	0.8	-9.8	-2.0
12/26/07	-4.0	-6.1	-6.4	-8.6	-8.7	-9.0	-9.3	-11.4	-9.0	-6.9	-4.6	-2.9	-2.1	-1.0	-0.7	-0.8	-3.1	-7.7	-10.0	-11.8	-10.4	-9.5	-8.9	-9.0	24	-0.7	-11.8	-6.7
12/27/07	-9.3	-9.4	-9.3	-9.1	-9.0	-8.8	-8.7	-8.8	-8.7	-8.7	-8.3	-7.6	-7.4	-7.7	-8.1	-9.2	-9.2	-9.1	-9.1	-8.8	-8.5	-8.4	-8.7	-8.9	24	-7.4	-9.4	-8.7
12/28/07	-8.9	-8.8	-8.7	-8.5	-8.4	-8.6	-8.6	-8.8	-8.8	-8.7	-8.8	-8.7	-8.6	-8.4	-8.3	-8.1	-8.2	-8.4	-8.5	-8.5	-8.5	-8.3	-8.0	-8.1	24	-8.0	-8.9	-8.5
12/29/07	-7.7	-7.7	-7.6	-7.7	-8.8	-9.4	-9.6	-9.8	-10.5	-10.5	-10.0	-9.1	-8.1	-7.2	-6.8	-6.7	-6.9	-7.2	-7.4	-7.3	-7.4	-8.0	-9.3	-9.5	24	-6.7	-10.5	-8.3
12/30/07	-8.3	-8.3	-9.4	-10.6	-11.5	-11.0	-11.5	-12.5	-11.6	-9.2	-7.9	-7.0	-5.5	-3.7	-3.0	-3.8	-4.8	-7.1	-7.1	-6.7	-7.3	-7.0	-6.5	-5.8	24	-3.0	-12.5	-7.8
12/31/07	-6.4	-8.4	-6.6	-7.1	-7.3	-7.2	-7.7	-6.5	-6.7	-7.5	-8.3	-8.8	-8.6	-8.4	-8.5	-9.0	-10.1	-11.4	-12.1	-12.7	-13.1	-12.8	-13.1	-14.2	24	-6.4	-14.2	-9.3
hr max	0.6	0.8	0.5	0.4	0.2	-0.1	-0.2	-0.5	-0.8	-0.8	0.5	2.9	4.1	8.6	7.1	6.8	10.7	1.1	-0.5	0.0	-0.4	-0.8	-1.1	0.0				
hr min	-16.9	-18.1	-17.7	-16.1	-16.7	-17.5	-16.1	-16.9	-16.6	-16.2	-15.1	-13.5	-12.6	-11.8	-11.4	-11.3	-12.2	-16.2	-17.9	-16.9	-16.3	-15.5	-15.6	-15.7				
average	-8.8	-9.1	-9.1	-9.2	-9.5	-9.8	-9.7	-9.9	-9.8	-8.7	-7.1	-5.7	-4.7	-3.8	-3.6	-3.8	-4.8	-7.0	-8.1	-8.6	-8.9	-8.9	-9.0	-9.0				

monthly	monthly	monthly
max hr	min hr	ave hr
10.7	-18.1	-7.8
12/4/07	12/8/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
degC
10mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
12/1/07	-6.2	-6.2	-6.5	-7.0	-7.7	-8.2	-8.6	-8.7	-8.9	-8.6	-8.4	-8.1	-7.9	-7.9	-8.0	-8.4	-8.4	-9.2	-9.3	-9.2	-9.1	-9.2	-9.5	-9.8	24	-6.2	-9.8	-8.3
12/2/07	-10.4	-10.0	-11.0	-12.6	-14.4	-15.5	-15.4	-15.8	-16.2	-16.3	-15.5	-14.1	-13.2	-12.4	-11.5	-10.7	-10.6	-12.1	-13.4	-14.9	-14.8	-14.1	-12.7	-11.8	24	-10.0	-16.3	-13.3
12/3/07	-11.1	-11.3	-10.8	-10.3	-11.4	-12.4	-12.1	-10.1	-9.9	-9.1	-6.6	-4.4	-1.8	-0.5	0.2	-0.1	-1.1	-1.8	-0.2	0.5	0.3	0.3	0.0	-4.2	24	0.5	-12.4	-5.3
12/4/07	-8.5	-10.2	-9.3	-8.1	-8.2	-7.7	-7.5	-7.4	-6.2	-5.3															10	-5.3	-10.2	-7.8
12/5/07																									0			
12/6/07																									0			
12/7/07													-9.9	-9.1	-8.3	-7.9	-8.3	-8.7	-9.5	-11.2	-12.6	-12.2	-11.9	-13.4	12	-7.9	-13.4	-10.3
12/8/07	-15.3	-16.1	-16.3	-15.9	-15.2	-15.8	-16.1	-16.6	-16.0	-15.1	-14.5	-13.9	-13.0	-12.2	-11.4	-11.2	-11.5	-12.0	-12.6	-13.3	-13.4	-14.0	-13.5	-13.7	24	-11.2	-16.6	-14.1
12/9/07	-13.8	-13.8	-13.7	-14.1	-13.4	-13.7	-12.9	-12.6	-11.7	-10.5	-9.2	-8.9	-8.3	-7.7	-6.8	-7.2	-8.1	-9.8	-10.3	-11.7	-12.1	-12.7	-12.4	-11.8	24	-6.8	-14.1	-11.1
12/10/07	-13.2	-13.9	-13.8	-14.2	-14.7	-15.6	-14.9	-15.6	-15.4	-13.2	-11.9	-8.4	-6.1	-3.9	-2.5	-1.5	-1.7	-2.6	-3.5	-5.3	-5.4	-5.4	-6.3	-6.5	24	-1.5	-15.6	-9.0
12/11/07	-4.8	-4.1	-4.1	-3.9	-3.8	-4.2	-6.0	-7.3	-8.9	-8.5	-7.4	-6.3	-5.3	-4.7	-4.2	-4.1	-4.2	-5.1	-6.2	-7.0	-7.5	-9.1	-9.8	-10.3	24	-3.8	-10.3	-6.1
12/12/07	-11.3	-12.1	-11.8	-12.3	-11.8	-12.1	-13.1	-13.2	-13.5	-11.9	-9.8	-7.8	-5.4	-4.2	-3.6	-3.2	-3.8	-5.1	-6.2	-5.3	-3.2	-2.3	-1.8	-3.8	24	-1.8	-13.5	-7.9
12/13/07	-2.7	-2.8	-1.8	-2.1	-2.1	-2.5	-2.6	-2.6	-2.9	-2.4	-1.2	-0.5	-0.6	-1.6	-2.2	-2.6	-3.5	-5.9	-7.7	-8.8	-9.1	-9.8	-11.1	-12.3	24	-0.5	-12.3	-4.2
12/14/07	-13.4	-14.3	-14.7	-15.9	-15.8	-15.6	-15.4	-15.5	-15.3	-14.4	-12.8	-11.2	-10.1	-9.3	-8.6	-7.7	-7.5	-8.5	-8.2	-8.6	-9.1	-8.5	-8.2	-6.3	24	-6.3	-15.9	-11.5
12/15/07	-6.6	-6.0	-5.7	-6.7	-7.8	-8.0	-8.2	-8.1	-8.1	-8.1	-6.3	-5.0	-3.5	-2.1	-1.0	-0.6	-0.8	-1.5	-2.8	-3.4	-3.4	-4.4	-6.1	-6.3	24	-0.6	-8.2	-5.0
12/16/07	-6.0	-7.5	-6.8	-7.6	-8.7	-10.0	-8.0	-7.4	-8.7	-8.3	-4.6	-2.1	-0.8	0.8	1.9	2.4	1.9	-0.4	-2.2	-2.4	-3.7	-3.1	-3.2	-5.1	24	2.4	-10.0	-4.2
12/17/07	-5.5	-6.4	-5.4	-3.3	-4.7	-7.0	-7.9	-7.3	-7.5	-7.0	-5.0	-1.7	0.4	0.9	0.8	0.6	-0.5	-1.6	-5.7	-7.1	-4.6	-3.4	-3.3	-3.6	24	0.9	-7.9	-4.0
12/18/07	-2.3	-2.0	-2.7	-2.8	-1.4	-1.8	-2.3	-2.5	-2.2									3.0	3.0	2.2	1.3	-1.4	-2.7	-2.6	16	3.0	-2.8	-1.1
12/19/07	-1.4	-2.9	-2.5	-4.3	-5.7	-5.4	-3.6	-4.0	-2.8	-2.0	0.1	0.8	1.0	1.4	1.9	2.1	1.5	0.5	-1.1	-2.4	-1.9	-2.6	-1.9	-0.6	24	2.1	-5.7	-1.5
12/20/07	-0.6	0.9	2.0	2.2	-2.6	-0.9	1.9	4.6	3.7	-1.9	-1.1	0.3	1.5	3.6	3.3	3.0	2.1	1.9	0.5	-0.4	-1.0	-0.7	-1.6	-0.5	24	4.6	-2.6	0.8
12/21/07	-2.1	-2.3	-2.3	-0.9	-1.2	-3.1	-2.5	-1.2	-2.1	-1.4	-0.1	-0.8	-0.2	-0.1	0.5	0.6	-0.8	-5.2	-6.9	-7.1	-7.3	-7.3	-8.9	-11.1	24	0.6	-11.1	-3.1
12/22/07	-10.8	-10.9	-11.1	-11.3	-12.7	-14.4	-15.6	-15.8	-15.6	-13.6	-10.7	-9.0	-8.0	-8.4	-9.0	-10.1	-11.1	-12.6	-13.5	-14.1	-14.7	-14.7	-14.6	-15.1	24	-8.0	-15.8	-12.4
12/23/07	-15.6	-15.5	-15.2	-15.1	-14.6	-14.1	-14.2	-14.7	-14.3	-13.9	-11.2	-9.9	-9.1	-8.1	-6.9	-7.0	-7.9	-9.1	-9.7	-10.8	-11.2	-11.7	-12.4	-12.5	24	-6.9	-15.6	-11.9
12/24/07	-12.7	-12.7	-11.3	-10.2	-11.6	-11.3	-10.3	-11.2	-10.4	-9.2	-8.1	-6.4	-3.4	-1.7	-1.0	0.0	0.0	-0.6	-1.4	-2.1	-2.4	-1.0	-0.8	0.2	24	0.2	-12.7	-5.8
12/25/07	0.7	1.0	0.6	0.5	0.3	0.1	-0.1	-0.3	-0.6	-0.7	-0.6	-0.5	-0.6	-0.5	-0.3	-0.4	-0.7	-1.7	-1.7	-1.6	-3.3	-3.3	-2.3	-2.9	24	1.0	-3.3	-0.8
12/26/07	-3.3	-5.7	-6.5	-6.8	-7.2	-6.0	-6.4	-8.5	-7.3	-6.6	-4.9	-3.4	-2.5	-1.5	-1.0	-1.2	-2.6	-5.7	-8.9	-11.4	-10.4	-9.5	-8.9	-9.1	24	-1.0	-11.4	-6.1
12/27/07	-9.4	-9.4	-9.4	-9.2	-9.1	-8.8	-8.7	-8.9	-8.8	-8.9	-8.6	-7.9	-7.8	-8.0	-8.4	-9.4	-9.4	-9.3	-9.2	-8.9	-8.6	-8.5	-8.8	-9.1	24	-7.8	-9.4	-8.9
12/28/07	-9.0	-9.0	-8.8	-8.6	-8.6	-8.8	-8.7	-8.9	-8.9	-8.8	-9.0	-9.0	-9.0	-8.7	-8.6	-8.4	-8.3	-8.5	-8.6	-8.6	-8.6	-8.5	-8.1	-8.2	24	-8.1	-9.0	-8.7
12/29/07	-7.9	-7.8	-7.7	-7.8	-8.9	-9.6	-9.8	-10.0	-10.6	-10.7	-10.4	-9.7	-8.7	-7.7	-7.3	-7.0	-7.0	-7.2	-7.4	-7.3	-7.3	-7.6	-8.7	-8.9	24	-7.0	-10.7	-8.5
12/30/07	-8.1	-8.3	-8.9	-9.2	-9.5	-9.3	-10.0	-10.5	-9.8	-9.0	-8.3	-7.2	-5.7	-4.2	-3.5	-3.2	-3.6	-3.8	-3.9	-4.1	-5.8	-5.7	-5.1	-4.1	24	-3.2	-10.5	-6.7
12/31/07	-4.9	-5.2	-5.1	-6.8	-7.0	-7.1	-7.3	-6.5	-6.8	-7.7	-8.6	-9.4	-9.3	-8.9	-9.0	-9.3	-10.0	-11.0	-11.7	-12.2	-12.8	-12.7	-12.9	-14.0	24	-4.9	-14.0	-9.0
hr max	0.7	1.0	2.0	2.2	0.3	0.1	1.9	4.6	3.7	-0.7	0.1	0.8	1.5	3.6	3.3	3.0	2.1	3.0	3.0	2.2	1.3	0.3	0.0	0.2	monthly	monthly	monthly	
hr min	-15.6	-16.1	-16.3	-15.9	-15.8	-15.8	-16.1	-16.6	-16.2	-16.3	-15.5	-14.1	-13.2	-12.4	-11.5	-11.2	-11.5	-12.6	-13.5	-14.9	-14.8	-14.7	-14.6	-15.1	max hr	min hr	ave hr	
average	-7.7	-8.0	-7.9	-8.0	-8.6	-8.9	-8.8	-8.8	-8.8	-8.6	-7.5	-6.3	-5.5	-4.7	-4.2	-4.2	-4.7	-5.5	-6.4	-7.0	-7.2	-7.3	-7.4	-7.8	4.6	-16.6	-7.1	
																									12/20/07	12/8/07		

Validated by:	Roger L Thompson	Date:	1/3/08
Analyst:	Denise Hazelman	Date:	1/3/08

valid hours	662
possible hours	744
data capture	89.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
degC
50mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
12/1/07	-6.6	-6.6	-6.9	-7.4	-8.2	-8.6	-9.0	-9.1	-9.3	-9.1	-9.0	-8.7	-8.5	-8.6	-8.6	-8.9	-8.9	-9.6	-9.7	-9.6	-9.5	-9.6	-9.9	-10.2	24	-6.6	-10.2	-8.8
12/2/07	-10.5	-10.4	-11.5	-12.9	-14.3	-15.1	-15.1	-15.5	-15.2	-15.9	-15.7	-14.4	-13.6	-12.8	-11.8	-10.7	-10.2	-10.1	-9.9	-10.1	-9.5	-8.8	-8.1	-7.9	24	-7.9	-15.9	-12.1
12/3/07	-8.9	-8.6	-8.6	-6.6	-7.9	-7.7	-6.3	-5.7	-4.6	-3.0	-1.1	-2.4	0.7	1.9	2.3	3.1	4.8	4.0	4.0	3.5	3.2	2.4	2.3	-1.8	24	4.8	-8.9	-1.7
12/4/07	-8.4	-9.9	-7.5	-5.4	-4.8	-5.7	-7.6	-6.4	-5.0	-2.8															10	-2.8	-9.9	-6.4
12/5/07																									0			
12/6/07																									0			
12/7/07													-10.4	-9.6	-8.6	-8.1	-7.8	-7.5	-7.6	-9.0	-9.4	-9.4	-10.2	-12.5	12	-7.5	-12.5	-9.2
12/8/07	-13.7	-14.1	-15.0	-15.3	-15.6	-16.2	-16.4	-16.5	-16.4	-15.7	-15.0	-14.5	-13.7	-12.8	-12.0	-11.8	-11.9	-12.1	-12.3	-12.4	-12.7	-12.9	-12.6	-12.4	24	-11.8	-16.5	-13.9
12/9/07	-12.0	-12.0	-11.7	-11.5	-11.5	-11.2	-11.1	-11.3	-11.1	-10.9	-9.8	-9.5	-9.0	-8.3	-7.5	-7.8	-8.3	-8.7	-9.5	-9.8	-10.0	-10.5	-10.3	-9.7	24	-7.5	-12.0	-10.1
12/10/07	-11.6	-12.4	-12.4	-13.2	-12.9	-13.1	-12.9	-12.6	-11.5	-10.5	-11.9	-8.7	-6.1	-4.3	-2.9	-1.7	-0.6	0.1	-1.2	-3.2	-3.9	-4.8	-5.1	-5.1	24	0.1	-13.2	-7.6
12/11/07	-4.8	-4.3	-4.2	-4.0	-4.0	-4.2	-5.4	-7.2	-7.9	-8.2	-7.7	-6.8	-5.8	-5.2	-4.7	-4.3	-4.2	-4.5	-4.8	-5.0	-5.5	-6.0	-6.0	-5.9	24	-4.0	-8.2	-5.4
12/12/07	-6.1	-5.9	-5.7	-7.9	-8.0	-10.7	-11.3	-11.7	-12.1	-11.5	-10.2	-8.0	-6.0	-4.9	-4.2	-3.6	-3.3	-2.9	-2.1	-2.0	-1.3	0.3	-0.4	-0.3	24	0.3	-12.1	-5.8
12/13/07	-1.0	-1.5	-1.2	-1.7	-1.6	-2.2	-2.4	-2.4	-2.8	-2.4	-1.4	-0.8	-0.9	-2.1	-2.6	-2.8	-3.5	-5.6	-7.5	-8.4	-8.9	-9.5	-10.5	-11.5	24	-0.8	-11.5	-4.0
12/14/07	-12.3	-13.7	-15.2	-16.4	-16.3	-16.1	-15.9	-15.7	-15.5	-14.9	-13.4	-11.8	-10.7	-10.0	-9.1	-8.2	-7.9	-7.9	-7.4	-8.1	-8.5	-8.0	-8.0	-6.3	24	-6.3	-16.4	-11.6
12/15/07	-6.7	-5.9	-5.9	-7.1	-8.1	-8.2	-6.8	-7.1	-6.4	-6.4	-5.8	-4.7	-3.9	-2.5	-1.3	-0.9	-0.8	-1.0	-1.3	-1.2	-1.5	-1.4	-1.0	-1.0	24	-0.8	-8.2	-4.0
12/16/07	-0.9	-2.0	-1.3	-0.8	-1.5	-3.7	-5.1	-5.9	-5.8	-6.0	-4.5	-2.4	-1.1	0.4	1.5	2.7	3.2	3.5	2.9	3.5	3.2	2.0	1.6	0.6	24	3.5	-6.0	-0.7
12/17/07	1.1	0.5	0.1	0.8	0.1	-0.5	-3.0	-1.3	-3.5	-0.9	-2.1	-0.7	0.0	0.4	0.2	0.2	-0.4	-1.2	-3.6	-2.5	-0.9	0.8	1.1	1.3	24	1.3	-3.6	-0.6
12/18/07	1.9	1.5	1.7	0.0	2.2	1.0	0.4	-0.4	-0.5									5.3	5.0	5.0	5.0	4.1	3.4	4.2	16	5.3	-0.5	2.5
12/19/07	4.7	4.0	3.8	1.9	0.0	2.0	3.9	0.4	-0.8	-1.1	-0.3	0.3	0.6	0.9	1.4	1.7	1.5	1.3	1.3	1.8	2.6	3.8	5.4	6.6	24	6.6	-1.1	2.0
12/20/07	5.7	7.4	7.8	7.2	5.0	5.1	7.1	8.0	8.3	2.9	3.0	2.6	1.5	3.4	3.2	3.5	3.8	3.6	2.6	2.1	2.2	3.1	3.3	2.6	24	8.3	1.5	4.4
12/21/07	0.5	1.4	2.2	3.0	3.3	1.7	0.5	1.5	1.8	1.3	0.5	-1.2	-0.7	-0.6	-0.1	0.1	-1.3	-5.7	-7.4	-7.5	-7.7	-7.7	-9.3	-11.5	24	3.3	-11.5	-1.8
12/22/07	-11.2	-11.3	-11.4	-11.7	-12.9	-14.1	-14.9	-14.9	-12.6	-12.9	-11.0	-9.5	-8.5	-8.9	-9.5	-10.6	-11.4	-12.6	-13.4	-13.9	-14.5	-14.7	-14.7	-15.1	24	-8.5	-15.1	-12.3
12/23/07	-15.6	-15.6	-15.5	-15.4	-15.1	-14.6	-14.6	-15.1	-14.7	-14.4	-11.7	-10.5	-9.7	-8.7	-7.4	-7.4	-8.1	-8.7	-9.0	-9.5	-10.0	-10.6	-10.6	-10.6	24	-7.4	-15.6	-11.8
12/24/07	-10.7	-9.7	-8.1	-7.5	-6.2	-6.1	-4.8	-5.0	-4.8	-4.3	-6.7	-6.0	-3.7	-2.2	-1.4	-0.4	-0.1	0.1	0.9	1.0	1.4	1.4	1.1	0.8	24	1.4	-10.7	-3.4
12/25/07	0.6	0.8	0.3	0.3	0.2	0.0	-0.1	-0.4	-0.5	-0.7	-0.8	-0.9	-1.0	-0.9	-0.7	-0.7	-0.8	-0.6	-0.5	-0.6	-1.2	-0.9	-0.7	-0.7	24	0.8	-1.2	-0.4
12/26/07	-2.1	-3.9	-4.4	-3.1	-4.0	-2.8	-2.9	-3.9	-3.2	-4.0	-5.0	-3.9	-3.1	-2.2	-1.6	-1.7	-2.5	-4.4	-5.3	-10.3	-10.8	-9.9	-9.3	-9.5	24	-1.6	-10.8	-4.7
12/27/07	-9.7	-9.8	-9.7	-9.5	-9.5	-9.2	-9.1	-9.2	-9.2	-9.4	-9.2	-8.5	-8.3	-8.5	-8.9	-9.8	-9.8	-9.6	-9.5	-9.3	-9.0	-8.8	-9.2	-9.5	24	-8.3	-9.8	-9.3
12/28/07	-9.4	-9.3	-9.2	-9.0	-8.9	-9.1	-9.1	-9.2	-9.3	-9.2	-9.4	-9.4	-9.4	-9.2	-9.0	-8.8	-8.7	-8.8	-8.9	-9.0	-9.0	-8.8	-8.4	-8.5	24	-8.4	-9.4	-9.0
12/29/07	-8.2	-8.1	-8.1	-8.1	-9.2	-9.9	-10.2	-10.3	-11.0	-11.2	-10.9	-10.4	-9.3	-8.3	-7.8	-7.4	-7.4	-7.4	-7.6	-7.3	-6.9	-6.7	-6.4	-5.7	24	-5.7	-11.2	-8.5
12/30/07	-5.9	-5.4	-5.6	-4.9	-3.3	-4.1	-3.7	-3.8	-5.0	-5.9	-7.4	-7.0	-6.1	-4.6	-3.8	-3.4	-3.3	-3.2	-3.2	-3.2	-3.5	-3.7	-3.8	-3.6	24	-3.2	-7.4	-4.5
12/31/07	-3.9	-3.9	-3.9	-5.7	-6.6	-7.2	-7.1	-6.7	-7.2	-8.1	-9.2	-10.0	-9.8	-9.4	-9.5	-9.8	-10.4	-11.1	-11.6	-12.2	-12.8	-13.0	-13.2	-14.2	24	-3.9	-14.2	-9.0
hr max	5.7	7.4	7.8	7.2	5.0	5.1	7.1	8.0	8.3	2.9	3.0	2.6	1.5	3.4	3.2	3.5	4.8	5.3	5.0	5.0	5.0	4.1	5.4	6.6	monthly	monthly	monthly
hr min	-15.6	-15.6	-15.5	-16.4	-16.3	-16.2	-16.4	-16.5	-16.4	-15.9	-15.7	-14.5	-13.7	-12.8	-12.0	-11.8	-11.9	-12.6	-13.4	-13.9	-14.5	-14.7	-14.7	-15.1	max hr	min hr	ave hr
average	-5.9	-6.0	-6.0	-6.1	-6.4	-6.8	-6.9	-7.1	-7.0	-7.2	-7.1	-6.5	-5.8	-5.1	-4.6	-4.4	-4.4	-4.5	-4.9	-5.3	-5.3	-5.3	-5.3	-5.6	8.3	-16.5	-5.8	
																									12/20/07	12/8/07		

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	662
possible hours	744
data capture	89.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
degC
100mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
12/1/07	-6.7	-6.9	-7.3	-7.8	-8.6	-9.0	-9.3	-9.5	-9.7	-9.6	-9.4	-9.2	-9.1	-9.1	-9.1	-9.3	-9.3	-9.9	-10.0	-10.0	-9.9	-10.1	-10.4	-10.6	24	-6.7	-10.6	-9.2
12/2/07	-10.7	-10.8	-11.9	-13.2	-14.4	-15.1	-15.2	-15.3	-15.1	-15.3	-15.7	-14.9	-14.1	-13.2	-12.2	-10.8	-10.0	-10.1	-9.6	-9.6	-8.7	-7.3	-5.3	-3.0	24	-3.0	-15.7	-11.7
12/3/07	-3.5	-2.4	-1.3	0.3	-1.5	-1.4	-2.0	-2.3	-1.0	1.4	2.9	5.0	6.2	6.2	6.5	5.4	5.8	4.9	5.1	4.7	4.4	3.7	2.6	-0.5	24	6.5	-3.5	2.1
12/4/07	-3.8	-2.6	-2.4	-1.9	1.2	0.6	-3.7	-1.2	1.6	4.9															10	4.9	-3.8	-0.7
12/5/07																									0			
12/6/07																									0			
12/7/07													-10.9	-10.1	-9.1	-8.5	-8.0	-7.6	-7.7	-8.4	-8.4	-9.0	-9.9	-12.4	12	-7.6	-12.4	-9.2
12/8/07	-13.4	-13.8	-14.9	-15.4	-16.1	-16.6	-16.7	-16.7	-16.8	-16.2	-15.5	-14.9	-14.2	-13.3	-12.5	-12.3	-12.4	-12.5	-12.6	-12.6	-12.7	-12.8	-12.7	-12.3	24	-12.3	-16.8	-14.2
12/9/07	-11.7	-11.4	-11.5	-11.6	-11.6	-11.1	-10.8	-10.7	-10.7	-10.7	-10.4	-10.1	-9.6	-8.9	-8.0	-8.3	-8.6	-8.8	-9.0	-9.2	-8.8	-9.0	-8.9	-7.8	24	-7.8	-11.7	-9.9
12/10/07	-10.3	-10.7	-9.4	-11.8	-11.5	-12.3	-10.9	-9.4	-7.1	-6.4	-6.3	-6.9	-6.0	-4.7	-3.1	-1.7	-0.1	0.3	-1.1	-2.8	-3.6	-4.2	-4.6	-4.8	24	0.3	-12.3	-6.2
12/11/07	-4.9	-4.6	-4.4	-4.3	-4.3	-4.5	-5.4	-6.9	-7.5	-8.1	-8.1	-7.3	-6.3	-5.7	-5.2	-4.8	-4.6	-4.7	-4.8	-4.9	-5.0	-5.4	-5.4	-4.9	24	-4.3	-8.1	-5.5
12/12/07	-5.0	-4.8	-5.0	-5.6	-7.0	-9.0	-8.9	-8.5	-7.5	-7.1	-9.3	-7.6	-6.3	-5.4	-4.7	-4.0	-3.4	-2.8	-1.9	-1.3	0.4	2.0	1.9	0.6	24	2.0	-9.3	-4.6
12/13/07	-0.2	-1.0	-0.7	-1.4	-1.4	-2.0	-2.4	-2.4	-2.7	-2.6	-1.8	-1.3	-1.4	-2.6	-3.1	-3.2	-3.8	-5.7	-7.4	-8.2	-8.9	-9.8	-10.9	-11.7	24	-0.2	-11.7	-4.0
12/14/07	-12.5	-13.7	-14.7	-16.0	-16.6	-15.5	-14.5	-11.6	-10.9	-10.7	-11.8	-11.5	-10.6	-10.0	-8.0	-7.7	-7.2	-7.2	-7.0	-7.4	-7.6	-6.5	-7.1	-5.2	24	-5.2	-16.6	-10.5
12/15/07	-6.3	-5.6	-6.1	-5.9	-5.6	-5.5	-5.2	-5.1	-3.7	-4.0	-3.9	-4.7	-4.3	-2.9	-1.8	-1.3	-1.1	-1.2	-1.2	-1.0	-1.0	-0.9	-0.3	-0.5	24	-0.3	-6.3	-3.3
12/16/07	-0.3	-0.9	-0.4	0.2	0.2	-0.1	-1.2	-3.0	-1.7	-1.9	-2.9	-2.6	-1.5	0.0	1.2	3.1	3.3	4.0	4.5	4.8	4.2	3.4	3.3	3.3	24	4.8	-3.0	0.8
12/17/07	4.0	3.7	3.0	3.7	3.5	3.5	1.8	2.9	-0.9	3.7	1.2	1.8	1.3	0.5	-0.2	-0.2	-0.8	-1.3	-1.7	-1.3	-0.1	1.4	1.9	2.0	24	4.0	-1.7	1.4
12/18/07	3.6	3.3	3.0	3.7	4.1	2.5	1.8	0.9	1.5									5.2	5.3	5.6	5.8	4.9	5.2	5.7	16	5.8	0.9	3.9
12/19/07	5.3	6.4	6.2	4.8	2.9	5.0	5.3	2.1	2.1	2.5	1.5	0.2	0.4	0.4	0.9	1.2	1.2	1.2	1.2	3.1	3.9	5.0	6.6	8.3	24	8.3	0.2	3.2
12/20/07	8.5	8.7	8.6	8.4	7.1	6.3	7.9	8.3	8.9	6.9	6.4	5.8	4.7	5.0	4.3	5.0	4.9	4.3	3.1	2.5	3.9	4.1	4.1	3.8	24	8.9	2.5	5.9
12/21/07	2.6	3.4	3.8	4.1	4.2	3.6	1.9	1.6	2.2	2.1	1.3	-1.2	-1.0	-1.0	-0.6	-0.3	-1.7	-6.2	-7.8	-8.0	-8.1	-8.1	-9.8	-11.9	24	4.2	-11.9	-1.5
12/22/07	-11.7	-11.7	-11.9	-12.1	-13.2	-13.7	-14.0	-12.8	-10.7	-11.3	-11.3	-10.0	-9.0	-9.4	-10.0	-11.0	-11.8	-12.8	-13.3	-13.7	-14.3	-14.6	-14.6	-14.8	24	-9.0	-14.8	-12.2
12/23/07	-15.4	-15.7	-15.7	-15.7	-15.5	-15.0	-15.0	-15.5	-15.1	-14.8	-12.1	-11.0	-10.2	-9.1	-7.9	-7.9	-8.5	-8.7	-8.6	-8.9	-9.7	-10.3	-9.3	-8.4	24	-7.9	-15.7	-11.8
12/24/07	-8.8	-8.6	-6.0	-6.6	-4.4	-3.9	-3.0	-2.9	-1.7	-1.0	-2.3	-2.2	-2.2	-2.1	-1.5	-0.1	0.0	0.9	1.7	2.1	2.1	1.9	2.5	1.5	24	2.5	-8.8	-1.9
12/25/07	0.6	0.5	0.0	0.2	0.0	-0.2	-0.4	-0.5	-0.5	-0.6	-1.0	-1.4	-1.5	-1.4	-1.2	-1.0	-1.0	-0.8	-0.7	-0.8	-0.9	-0.7	-0.7	-0.9	24	0.6	-1.5	-0.6
12/26/07	-2.2	-3.8	-3.4	-1.8	-3.0	-2.3	-2.3	-2.6	-2.5	-2.7	-2.9	-4.0	-3.5	-2.6	-2.1	-2.2	-2.8	-3.9	-3.4	-4.3	-6.6	-10.3	-9.8	-9.9	24	-1.8	-10.3	-4.0
12/27/07	-10.1	-10.2	-10.1	-9.9	-9.9	-9.6	-9.4	-9.6	-9.5	-9.7	-9.6	-8.9	-8.7	-8.9	-9.3	-10.2	-10.2	-10.0	-9.9	-9.6	-9.3	-9.2	-9.6	-9.8	24	-8.7	-10.2	-9.6
12/28/07	-9.8	-9.7	-9.5	-9.3	-9.3	-9.5	-9.4	-9.6	-9.6	-9.6	-9.7	-9.8	-9.7	-9.5	-9.4	-9.1	-9.0	-9.2	-9.2	-9.3	-9.3	-9.1	-8.8	-8.8	24	-8.8	-9.8	-9.4
12/29/07	-8.5	-8.5	-8.4	-8.5	-9.6	-10.3	-10.5	-10.7	-11.2	-11.3	-10.9	-10.5	-9.6	-8.6	-8.1	-7.8	-7.8	-7.6	-7.1	-5.9	-5.6	-5.4	-4.8	-5.0	24	-4.8	-11.3	-8.4
12/30/07	-3.8	-1.0	-0.3	-0.5	-0.4	-1.4	-2.5	-1.4	-2.5	-3.3	-5.7	-7.2	-6.2	-5.1	-4.3	-3.8	-3.5	-3.5	-3.0	-3.2	-3.2	-3.3	-3.4	-3.7	24	-0.3	-7.2	-3.2
12/31/07	-3.8	-3.7	-3.9	-4.8	-5.6	-6.9	-6.8	-6.8	-7.6	-8.6	-9.6	-10.5	-10.3	-10.0	-10.0	-10.3	-10.8	-11.3	-11.8	-12.3	-12.9	-13.3	-13.5	-14.5	24	-3.7	-14.5	-9.2
hr max	8.5	8.7	8.6	8.4	7.1	6.3	7.9	8.3	8.9	6.9	6.4	5.8	6.2	6.2	6.5	5.4	5.8	5.2	5.3	5.6	5.8	5.0	6.6	8.3				
hr min	-15.4	-15.7	-15.7	-16.0	-16.6	-16.6	-16.7	-16.7	-16.8	-16.2	-15.7	-14.9	-14.2	-13.3	-12.5	-12.3	-12.4	-12.8	-13.3	-13.7	-14.3	-14.6	-14.6	-14.8				
average	-5.0	-4.9	-4.8	-5.0	-5.2	-5.5	-5.7	-5.7	-5.4	-5.3	-6.0	-6.0	-5.7	-5.2	-4.8	-4.5	-4.5	-4.5	-4.6	-4.6	-4.6	-4.7	-4.7	-4.9				

monthly	monthly	monthly
max hr	min hr	ave hr
8.9	-16.8	-5.1
12/20/07	12/8/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	662
possible hours	744
data capture	89.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
degC
10-2

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
12/1/07	-0.04	-0.05	-0.06	-0.06	-0.11	-0.09	-0.07	-0.07	-0.13	-0.24	-0.30	-0.47	-0.48	-0.44	-0.40	-0.21	-0.21	-0.06	-0.04	-0.07	-0.05	-0.07	-0.04	0.02	24	0.02	-0.48	-0.16
12/2/07	0.11	-0.05	-0.08	0.13	0.42	0.54	0.50	0.54	0.38	-0.08	-0.43	-0.60	-0.65	-0.63	-0.12	0.57	1.58	4.13	4.50	2.07	1.43	0.67	0.57	0.33	24	4.50	-0.65	0.66
12/3/07	0.22	0.16	0.20	0.30	0.92	1.85	0.71	0.61	1.10	-0.06	-0.48	-0.62	-0.58	-0.54	-0.27	0.08	0.64	0.69	0.94	0.46	0.70	1.03	2.08	0.57	24	2.08	-0.62	0.45
12/4/07	0.19	-0.05	0.00	1.28	0.60	-0.13	-0.16	0.00	-0.23	-0.36															10	1.28	-0.36	0.11
12/5/07																									0			
12/6/07																									0			
12/7/07													-0.84	-0.80	-0.46	-0.01	1.53	3.68	3.80	3.09	1.51	2.90	3.76	2.25	12	3.80	-0.84	1.70
12/8/07	1.56	1.94	1.35	0.21	-0.07	-0.01	-0.01	0.38	-0.21	-0.40	-0.37	-0.34	-0.37	-0.44	-0.55	-0.42	0.07	0.60	1.01	1.46	0.91	1.55	1.31	1.18	24	1.94	-0.55	0.43
12/9/07	1.24	1.08	2.08	1.16	1.06	0.65	0.15	-0.05	-0.10	-0.35	-0.54	-0.56	-0.72	-0.63	-0.84	-0.31	0.31	0.83	0.48	0.65	0.65	0.66	0.58	0.70	24	2.08	-0.84	0.34
12/10/07	0.41	0.90	0.98	1.33	2.00	1.84	0.46	1.03	0.48	-0.29	-0.38	-0.58	-0.77	-0.58	-0.28	0.02	0.93	2.25	2.22	1.72	0.77	0.54	0.96	0.66	24	2.25	-0.77	0.69
12/11/07	0.21	0.14	0.28	0.19	0.16	0.52	1.27	0.44	1.13	0.13	-0.66	-0.95	-0.78	-0.71	-0.65	-0.19	1.22	2.33	2.86	3.48	3.94	3.22	3.17	1.99	24	3.94	-0.95	0.95
12/12/07	0.97	1.43	2.34	1.04	0.94	0.45	0.37	0.45	0.21	-0.25	-0.50	-0.73	-0.75	-0.67	-0.42	-0.10	0.36	0.62	0.79	0.80	0.27	0.27	0.49	0.95	24	2.34	-0.75	0.39
12/13/07	0.95	0.72	0.64	0.63	0.60	0.62	0.56	0.49	0.43	0.25	-0.05	-0.10	-0.24	-0.55	-0.40	0.00	0.41	1.21	0.97	0.80	1.13	1.00	0.54	1.40	24	1.40	-0.55	0.50
12/14/07	1.28	0.63	-0.05	-0.12	-0.22	-0.21	-0.11	-0.01	-0.09	-0.38	-0.64	-0.74	-0.76	-0.66	-0.51	-0.35	-0.08	0.65	0.12	0.19	0.23	0.01	-0.04	-0.08	24	1.28	-0.76	-0.08
12/15/07	-0.10	-0.05	-0.02	-0.03	-0.07	-0.07	0.06	0.21	0.58	0.16	-0.20	-0.57	-0.60	-0.59	-0.45	0.24	1.24	3.74	4.89	4.93	5.53	5.41	3.92	3.86	24	5.53	-0.60	1.33
12/16/07	4.52	2.63	3.35	3.77	2.79	1.06	0.10	0.24	0.21	-0.39	-0.33	-0.27	-0.23	-0.36	-0.36	0.01	1.62	2.03	2.86	1.45	2.30	3.85	3.42	1.48	24	4.52	-0.39	1.49
12/17/07	1.55	1.37	2.21	4.13	4.31	2.23	0.98	1.46	0.52	0.29	-0.33	-0.52	-0.69	-0.61	-0.43	-0.22	1.05	2.88	1.62	1.20	2.70	2.50	2.35	2.42	24	4.31	-0.69	1.37
12/18/07	1.66	2.33	2.20	1.18	1.07	0.96	0.93	0.86	0.62									4.04	5.75	4.55	5.37	4.07	3.50	3.36	16	5.75	0.62	2.65
12/19/07	3.55	3.78	4.56	2.38	1.01	2.25	1.81	0.61	0.34	-0.03	-0.43	-0.33	-0.23	-0.26	-0.31	-0.24	0.83	3.15	3.01	2.52	2.00	1.57	1.56	2.05	24	4.56	-0.43	1.46
12/20/07	2.01	2.86	4.40	4.28	2.39	3.73	5.91	7.07	7.89	1.08	-0.14	-0.41	-0.60	-0.44	-0.13	0.07	0.41	0.80	1.02	2.25	3.03	3.76	3.31	2.35	24	7.89	-0.60	2.37
12/21/07	1.30	2.37	1.60	1.42	1.54	0.51	0.97	1.34	0.60	0.01	-0.09	-0.44	-0.52	-0.40	-0.28	-0.12	-0.09	-0.19	-0.14	-0.10	-0.07	-0.05	-0.07	-0.05	24	2.37	-0.52	0.38
12/22/07	-0.03	-0.02	0.00	0.06	0.23	0.44	0.49	0.56	0.94	-0.19	-0.26	-0.50	-0.54	-0.49	-0.40	-0.17	0.08	0.41	0.37	0.33	0.37	0.32	0.26	0.26	24	0.94	-0.54	0.11
12/23/07	0.24	0.21	0.15	0.06	-0.11	-0.13	-0.08	-0.08	-0.13	-0.23	-0.33	-0.50	-0.63	-0.49	-0.43	-0.16	0.28	0.70	0.66	0.69	0.80	0.87	1.41	1.05	24	1.41	-0.63	0.16
12/24/07	1.18	1.41	1.51	2.11	2.35	1.59	0.71	0.59	0.19	-0.09	-0.30	-0.61	-0.57	-0.52	-0.35	-0.17	0.09	0.26	0.33	0.93	0.65	0.59	0.28	0.28	24	2.35	-0.61	0.52
12/25/07	0.11	0.13	0.09	0.11	0.15	0.19	0.17	0.22	0.23	0.12	-0.06	-0.25	-0.32	-0.35	-0.27	-0.12	0.54	1.12	4.04	4.44	5.22	6.52	4.71	2.57	24	6.52	-0.35	1.22
12/26/07	0.65	0.36	-0.12	1.86	1.50	2.98	2.96	2.88	1.71	0.26	-0.29	-0.51	-0.37	-0.48	-0.26	-0.36	0.53	1.94	1.06	0.38	0.00	-0.05	-0.06	-0.08	24	2.98	-0.51	0.69
12/27/07	-0.08	-0.07	-0.07	-0.08	-0.08	-0.08	-0.08	-0.08	-0.10	-0.21	-0.32	-0.36	-0.37	-0.31	-0.27	-0.21	-0.16	-0.11	-0.10	-0.10	-0.10	-0.10	-0.15	-0.18	24	-0.07	-0.37	-0.16
12/28/07	-0.13	-0.17	-0.17	-0.16	-0.13	-0.11	-0.12	-0.11	-0.11	-0.17	-0.22	-0.30	-0.36	-0.32	-0.31	-0.27	-0.17	-0.10	-0.10	-0.11	-0.11	-0.12	-0.12	-0.11	24	-0.10	-0.36	-0.17
12/29/07	-0.10	-0.12	-0.13	-0.11	-0.12	-0.15	-0.16	-0.13	-0.12	-0.22	-0.38	-0.65	-0.61	-0.51	-0.42	-0.27	-0.11	-0.01	-0.01	0.01	0.06	0.38	0.69	0.62	24	0.69	-0.65	-0.11
12/30/07	0.15	0.07	0.55	1.34	1.98	1.65	1.58	1.97	1.82	0.24	-0.44	-0.23	-0.15	-0.51	-0.47	0.61	1.17	3.38	3.26	2.62	1.43	1.38	1.38	1.70	24	3.38	-0.51	1.10
12/31/07	1.54	3.18	1.55	0.32	0.29	0.03	0.35	0.05	-0.04	-0.17	-0.35	-0.58	-0.62	-0.46	-0.48	-0.28	0.04	0.35	0.40	0.44	0.31	0.10	0.19	0.23	24	3.18	-0.62	0.27
hr max	4.52	3.78	4.56	4.28	4.31	3.73	5.91	7.07	7.89	1.08	-0.05	-0.10	-0.15	-0.26	-0.12	0.61	1.62	4.13	5.75	4.93	5.53	6.52	4.71	3.86				
hr min	-0.13	-0.17	-0.17	-0.16	-0.22	-0.21	-0.16	-0.13	-0.23	-0.40	-0.66	-0.95	-0.84	-0.80	-0.84	-0.42	-0.21	-0.19	-0.14	-0.11	-0.11	-0.12	-0.15	-0.18				
average	0.90	0.97	1.05	1.03	0.91	0.83	0.72	0.77	0.65	-0.06	-0.34	-0.49	-0.53	-0.51	-0.39	-0.10	0.52	1.48	1.66	1.47	1.46	1.53	1.43	1.14				

monthly max hr	monthly min hr	monthly ave hr
7.89	-0.95	0.68
12/20/07	12/11/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	662
possible hours	744
data capture	89.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
degC
50-10

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
12/1/07	-0.31	-0.37	-0.40	-0.39	-0.45	-0.43	-0.40	-0.39	-0.44	-0.51	-0.57	-0.64	-0.67	-0.64	-0.62	-0.51	-0.51	-0.39	-0.37	-0.43	-0.40	-0.43	-0.42	-0.37	24	-0.31	-0.67	-0.46
12/2/07	-0.15	-0.41	-0.46	-0.30	0.04	0.40	0.37	0.31	0.93	0.43	-0.26	-0.37	-0.40	-0.36	-0.32	-0.02	0.40	1.96	3.50	4.81	5.36	5.30	4.61	3.86	24	5.36	-0.46	1.22
12/3/07	2.19	2.65	2.13	3.70	3.53	4.71	5.79	4.43	5.36	6.10	5.40	1.98	2.41	2.34	2.02	3.27	5.87	5.81	4.13	2.99	2.90	2.10	2.30	2.39	24	6.10	1.98	3.60
12/4/07	0.10	0.35	1.83	2.73	3.42	1.96	-0.08	0.97	1.18	2.53															10	3.42	-0.08	1.50
12/5/07																									0			
12/6/07																									0			
12/7/07													-0.47	-0.48	-0.36	-0.20	0.51	1.27	1.89	2.28	3.17	2.79	1.64	0.93	12	3.17	-0.48	1.08
12/8/07	1.64	2.02	1.30	0.60	-0.43	-0.40	-0.38	0.02	-0.45	-0.59	-0.56	-0.59	-0.67	-0.63	-0.62	-0.55	-0.40	-0.09	0.34	0.90	0.76	1.06	0.88	1.36	24	2.02	-0.67	0.19
12/9/07	1.75	1.80	1.96	2.62	1.87	2.53	1.76	1.32	0.63	-0.44	-0.64	-0.64	-0.64	-0.67	-0.72	-0.55	-0.18	1.01	0.85	1.83	2.08	2.19	2.06	2.16	24	2.62	-0.72	1.00
12/10/07	1.62	1.54	1.38	0.95	1.85	2.55	2.03	2.94	3.84	2.75	-0.04	-0.24	-0.02	-0.41	-0.38	-0.14	1.12	2.65	2.29	2.02	1.53	0.62	1.18	1.36	24	3.84	-0.41	1.37
12/11/07	-0.02	-0.20	-0.06	-0.15	-0.16	-0.01	0.61	0.17	1.06	0.32	-0.33	-0.48	-0.46	-0.50	-0.53	-0.22	0.02	0.57	1.43	2.06	2.06	3.04	3.81	4.37	24	4.37	-0.53	0.68
12/12/07	5.18	6.27	6.09	4.34	3.74	1.43	1.76	1.55	1.41	0.45	-0.36	-0.19	-0.60	-0.69	-0.61	-0.41	0.44	2.17	4.09	3.39	1.84	2.57	1.44	3.49	24	6.27	-0.69	2.03
12/13/07	1.71	1.28	0.56	0.31	0.45	0.31	0.19	0.16	0.17	0.02	-0.21	-0.28	-0.33	-0.47	-0.38	-0.22	0.01	0.30	0.24	0.35	0.25	0.34	0.57	0.82	24	1.71	-0.47	0.26
12/14/07	1.14	0.63	-0.41	-0.47	-0.50	-0.47	-0.43	-0.24	-0.23	-0.45	-0.55	-0.61	-0.62	-0.65	-0.51	-0.50	-0.31	0.61	0.82	0.56	0.62	0.45	0.19	0.00	24	1.14	-0.65	-0.08
12/15/07	-0.11	0.02	-0.26	-0.37	-0.25	-0.21	1.33	0.98	1.70	1.77	0.49	0.25	-0.33	-0.39	-0.31	-0.23	0.00	0.55	1.44	2.21	1.93	3.05	5.12	5.26	24	5.26	-0.39	0.99
12/16/07	5.08	5.53	5.55	6.78	7.18	6.32	2.94	1.51	2.91	2.37	0.07	-0.31	-0.36	-0.39	-0.41	0.29	1.38	3.93	5.15	5.85	6.96	5.13	4.87	5.68	24	7.18	-0.41	3.50
12/17/07	6.57	6.84	5.50	4.11	4.81	6.52	4.92	6.07	3.98	6.02	2.91	0.96	-0.41	-0.57	-0.56	-0.46	0.14	0.42	2.15	4.55	3.73	4.20	4.34	4.91	24	6.84	-0.57	3.40
12/18/07	4.23	3.56	4.45	2.89	3.65	2.88	2.66	2.06	1.72									2.34	2.03	2.87	3.73	5.50	6.12	6.76	16	6.76	1.72	3.59
12/19/07	6.13	6.85	6.33	6.20	5.76	7.38	7.52	4.41	2.00	0.90	-0.35	-0.48	-0.44	-0.51	-0.51	-0.42	-0.03	0.86	2.41	4.20	4.52	6.41	7.33	7.16	24	7.52	-0.51	3.48
12/20/07	6.30	6.57	5.85	4.95	7.61	6.06	5.20	3.38	4.56	4.77	4.15	2.27	0.06	-0.23	-0.18	0.45	1.67	1.76	2.09	2.47	3.19	3.76	4.91	3.12	24	7.61	-0.23	3.53
12/21/07	2.64	3.63	4.51	3.94	4.47	4.79	3.05	2.67	3.96	2.72	0.57	-0.45	-0.58	-0.53	-0.54	-0.44	-0.41	-0.52	-0.48	-0.45	-0.41	-0.39	-0.42	-0.41	24	4.79	-0.58	1.29
12/22/07	-0.39	-0.40	-0.38	-0.35	-0.18	0.37	0.73	0.96	3.00	0.61	-0.32	-0.46	-0.50	-0.52	-0.51	-0.45	-0.34	0.01	0.13	0.23	0.20	0.03	-0.03	0.05	24	3.00	-0.52	0.06
12/23/07	0.02	-0.09	-0.25	-0.31	-0.46	-0.46	-0.42	-0.43	-0.46	-0.44	-0.47	-0.56	-0.59	-0.55	-0.52	-0.43	-0.17	0.44	0.76	1.33	1.25	1.06	1.82	1.91	24	1.91	-0.59	0.08
12/24/07	2.09	2.96	3.22	2.66	5.47	5.23	5.55	6.21	5.64	4.86	1.34	0.47	-0.27	-0.54	-0.48	-0.37	-0.14	0.77	2.34	3.14	3.73	2.36	1.89	0.59	24	6.21	-0.54	2.45
12/25/07	-0.11	-0.17	-0.23	-0.12	-0.12	-0.09	-0.08	-0.02	0.10	0.00	-0.20	-0.39	-0.42	-0.44	-0.38	-0.26	-0.01	1.07	1.19	0.98	2.07	2.39	1.63	2.14	24	2.39	-0.44	0.36
12/26/07	1.24	1.84	2.06	3.66	3.14	3.19	3.49	4.63	4.09	2.62	-0.09	-0.52	-0.65	-0.65	-0.58	-0.53	0.00	1.36	3.55	1.10	-0.37	-0.37	-0.37	-0.39	24	4.63	-0.65	1.31
12/27/07	-0.37	-0.38	-0.39	-0.38	-0.38	-0.38	-0.37	-0.38	-0.39	-0.48	-0.53	-0.54	-0.52	-0.50	-0.51	-0.47	-0.41	-0.39	-0.36	-0.36	-0.37	-0.37	-0.39	-0.37	24	-0.36	-0.54	-0.42
12/28/07	-0.36	-0.36	-0.35	-0.36	-0.35	-0.36	-0.35	-0.35	-0.35	-0.36	-0.37	-0.41	-0.42	-0.43	-0.39	-0.39	-0.36	-0.35	-0.35	-0.33	-0.33	-0.33	-0.32	-0.33	24	-0.32	-0.43	-0.36
12/29/07	-0.33	-0.34	-0.35	-0.32	-0.35	-0.38	-0.39	-0.38	-0.38	-0.43	-0.51	-0.63	-0.63	-0.56	-0.51	-0.45	-0.39	-0.26	-0.18	0.01	0.38	0.93	2.21	3.14	24	3.14	-0.63	-0.05
12/30/07	2.17	2.83	3.31	4.39	6.19	5.28	6.22	6.75	4.83	3.10	0.95	0.21	-0.39	-0.41	-0.36	-0.16	0.35	0.52	0.66	0.89	2.36	1.92	1.37	0.57	24	6.75	-0.41	2.23
12/31/07	1.00	1.25	1.21	1.03	0.44	-0.11	0.23	-0.19	-0.42	-0.47	-0.55	-0.61	-0.56	-0.55	-0.57	-0.49	-0.35	-0.06	0.03	0.06	0.02	-0.28	-0.23	-0.22	24	1.25	-0.61	-0.02
hr max	6.57	6.85	6.33	6.78	7.61	7.38	7.52	6.75	5.64	6.10	5.40	2.27	2.41	2.34	2.02	3.27	5.87	5.81	5.15	5.85	6.96	6.41	7.33	7.16				
hr min	-0.39	-0.41	-0.46	-0.47	-0.50	-0.47	-0.43	-0.43	-0.46	-0.59	-0.64	-0.64	-0.67	-0.69	-0.72	-0.55	-0.51	-0.52	-0.48	-0.45	-0.41	-0.43	-0.42	-0.41				
average	1.81	1.99	1.92	1.87	2.14	2.09	1.91	1.75	1.78	1.41	0.35	-0.13	-0.35	-0.40	-0.38	-0.18	0.29	1.01	1.49	1.77	1.88	1.97	2.08	2.14				

monthly max hr	monthly min hr	monthly ave hr
7.61	-0.72	1.28
12/20/07	12/9/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	662
possible hours	744
data capture	89.0%

Basin Electric - Geltysburg S.D. Monitoring Program
December-07
degC
100-50

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
12/1/07	-0.18	-0.38	-0.42	-0.41	-0.45	-0.43	-0.39	-0.40	-0.43	-0.45	-0.46	-0.47	-0.53	-0.49	-0.47	-0.43	-0.43	-0.37	-0.36	-0.39	-0.41	-0.43	-0.49	-0.44	24	-0.18	-0.53	-0.42
12/2/07	-0.18	-0.41	-0.43	-0.29	-0.05	0.04	-0.16	0.18	0.10	0.61	0.08	-0.48	-0.48	-0.40	-0.40	-0.13	0.18	0.05	0.38	0.44	0.74	1.44	2.79	4.92	24	4.92	-0.48	0.36
12/3/07	5.33	6.17	7.34	6.90	6.42	6.24	4.24	3.39	3.53	4.40	4.09	7.36	5.59	4.31	4.21	2.24	0.99	0.86	1.15	1.22	1.17	1.30	0.32	1.28	24	7.36	0.32	3.75
12/4/07	4.59	7.27	5.07	3.44	5.97	6.35	3.93	5.22	6.58	7.64															10	7.64	3.44	5.61
12/5/07																									0			
12/6/07																									0			
12/7/07													-0.49	-0.47	-0.44	-0.42	-0.19	-0.11	-0.10	0.51	1.00	0.46	0.38	0.07	12	1.00	-0.49	0.02
12/8/07	0.28	0.31	0.10	-0.14	-0.46	-0.42	-0.22	-0.20	-0.33	-0.50	-0.49	-0.47	-0.49	-0.48	-0.49	-0.48	-0.45	-0.40	-0.32	-0.19	0.00	0.09	-0.07	0.10	24	0.31	-0.50	-0.24
12/9/07	0.28	0.64	0.20	-0.11	-0.09	0.03	0.32	0.60	0.42	0.18	-0.54	-0.57	-0.58	-0.55	-0.51	-0.48	-0.29	-0.05	0.48	0.68	1.22	1.51	1.45	1.90	24	1.90	-0.58	0.26
12/10/07	1.28	1.65	2.96	1.46	1.41	0.74	1.98	3.22	4.39	4.03	5.66	1.76	0.04	-0.38	-0.22	-0.07	0.53	0.19	0.18	0.40	0.29	0.53	0.44	0.38	24	5.66	-0.38	1.37
12/11/07	-0.09	-0.32	-0.23	-0.29	-0.32	-0.34	-0.05	0.23	0.43	0.12	-0.32	-0.48	-0.47	-0.49	-0.48	-0.44	-0.37	-0.18	0.01	0.05	0.44	0.61	0.64	0.98	24	0.98	-0.49	-0.06
12/12/07	1.03	1.04	0.64	2.35	1.00	1.70	2.43	3.16	4.56	4.40	0.87	0.44	-0.29	-0.47	-0.48	-0.43	-0.03	0.10	0.18	0.62	1.79	1.75	2.34	0.92	24	4.56	-0.48	1.23
12/13/07	0.87	0.57	0.51	0.35	0.29	0.18	0.01	0.06	0.05	-0.22	-0.42	-0.49	-0.49	-0.48	-0.47	-0.41	-0.31	-0.09	0.10	0.29	-0.08	-0.34	-0.31	-0.21	24	0.87	-0.49	-0.04
12/14/07	-0.23	0.02	0.49	0.37	-0.24	0.56	1.40	4.14	4.59	4.16	1.54	0.28	0.12	-0.06	1.10	0.52	0.64	0.69	0.33	0.65	0.92	1.55	0.92	1.11	24	4.59	-0.24	1.07
12/15/07	0.37	0.32	-0.17	1.14	2.51	2.79	1.66	2.09	2.65	2.34	1.90	0.03	-0.42	-0.44	-0.44	-0.43	-0.33	-0.20	0.13	0.14	0.48	0.45	0.70	0.55	24	2.79	-0.44	0.74
12/16/07	0.60	1.11	0.84	1.02	1.63	3.57	3.86	2.92	4.15	4.06	1.58	-0.21	-0.35	-0.41	-0.31	0.40	0.10	0.45	1.56	1.31	0.96	1.34	1.68	2.68	24	4.15	-0.41	1.44
12/17/07	2.85	3.22	2.86	2.92	3.42	3.94	4.79	4.20	2.55	4.66	3.27	2.44	1.23	0.12	-0.43	-0.40	-0.37	-0.18	1.84	1.24	0.71	0.65	0.81	0.68	24	4.79	-0.43	1.96
12/18/07	1.62	1.81	1.24	3.60	1.91	1.47	1.42	1.30	2.01									-0.14	0.25	0.56	0.83	0.76	1.78	1.54	16	3.60	-0.14	1.37
12/19/07	0.63	2.40	2.34	2.84	2.89	3.05	1.36	1.65	2.91	3.59	1.79	-0.07	-0.19	-0.45	-0.46	-0.44	-0.33	-0.15	-0.12	1.26	1.27	1.20	1.20	1.68	24	3.59	-0.46	1.24
12/20/07	2.86	1.25	0.77	1.19	2.13	1.15	0.82	0.29	0.61	4.03	3.35	3.26	3.16	1.64	1.13	1.57	1.09	0.69	0.54	0.45	1.71	1.06	0.79	1.16	24	4.03	0.29	1.53
12/21/07	2.07	1.99	1.59	1.06	0.90	1.98	1.36	0.10	0.33	0.80	0.79	0.06	-0.25	-0.42	-0.48	-0.46	-0.46	-0.47	-0.48	-0.46	-0.42	-0.42	-0.44	-0.45	24	2.07	-0.48	0.33
12/22/07	-0.43	-0.44	-0.43	-0.42	-0.28	0.33	0.88	2.05	1.84	1.66	-0.26	-0.55	-0.55	-0.53	-0.51	-0.48	-0.42	-0.18	0.07	0.18	0.19	0.07	0.05	0.30	24	2.05	-0.55	0.09
12/23/07	0.15	-0.08	-0.28	-0.31	-0.42	-0.42	-0.38	-0.39	-0.42	-0.38	-0.36	-0.51	-0.53	-0.50	-0.51	-0.50	-0.36	0.01	0.39	0.56	0.26	0.37	1.25	2.19	24	2.19	-0.53	-0.05
12/24/07	1.87	1.18	2.10	0.88	1.79	2.18	1.77	2.10	3.11	3.28	4.46	3.78	1.52	0.17	-0.05	0.33	0.14	0.79	0.77	1.10	0.68	0.52	1.35	0.61	24	4.46	-0.05	1.52
12/25/07	-0.02	-0.26	-0.32	-0.12	-0.20	-0.24	-0.23	-0.16	-0.05	0.06	-0.18	-0.44	-0.45	-0.46	-0.44	-0.38	-0.28	-0.19	-0.22	-0.25	0.27	0.19	-0.02	-0.17	24	0.27	-0.46	-0.19
12/26/07	-0.14	0.13	1.02	1.35	1.04	0.50	0.60	1.29	0.72	1.28	2.05	-0.04	-0.38	-0.45	-0.49	-0.51	-0.25	0.47	1.94	6.00	4.21	-0.43	-0.46	-0.43	24	6.00	-0.51	0.79
12/27/07	-0.39	-0.38	-0.39	-0.37	-0.37	-0.36	-0.34	-0.35	-0.36	-0.36	-0.38	-0.38	-0.36	-0.37	-0.38	-0.38	-0.38	-0.37	-0.37	-0.37	-0.37	-0.36	-0.33	-0.35	24	-0.33	-0.39	-0.37
12/28/07	-0.36	-0.35	-0.35	-0.36	-0.35	-0.35	-0.36	-0.34	-0.34	-0.35	-0.34	-0.35	-0.34	-0.33	-0.33	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34	-0.35	-0.34	-0.33	24	-0.33	-0.36	-0.34
12/29/07	-0.35	-0.35	-0.35	-0.33	-0.36	-0.36	-0.37	-0.39	-0.16	-0.13	-0.02	-0.14	-0.25	-0.34	-0.35	-0.35	-0.36	-0.20	0.49	1.41	1.38	1.32	1.65	0.74	24	1.65	-0.39	0.08
12/30/07	2.13	4.43	5.26	4.37	2.89	2.70	1.28	2.31	2.52	2.59	1.64	-0.22	-0.13	-0.45	-0.47	-0.41	-0.23	-0.23	0.19	0.02	0.31	0.49	0.40	-0.14	24	5.26	-0.47	1.30
12/31/07	0.09	0.21	0.00	0.92	0.96	0.36	0.26	-0.17	-0.46	-0.48	-0.49	-0.51	-0.50	-0.51	-0.52	-0.49	-0.42	-0.25	-0.17	-0.12	-0.12	-0.32	-0.32	-0.34	24	0.96	-0.52	-0.14
hr max	5.33	7.27	7.34	6.90	6.42	6.35	4.79	5.22	6.58	7.64	5.66	7.36	5.59	4.31	4.21	2.24	1.09	0.86	1.94	6.00	4.21	1.75	2.79	4.92				
hr min	-0.43	-0.44	-0.43	-0.42	-0.46	-0.43	-0.39	-0.40	-0.46	-0.50	-0.54	-0.57	-0.58	-0.55	-0.52	-0.51	-0.46	-0.47	-0.48	-0.46	-0.42	-0.43	-0.49	-0.45				
average	0.95	1.17	1.14	1.18	1.20	1.32	1.14	1.36	1.63	1.89	1.11	0.50	0.12	-0.14	-0.14	-0.14	-0.11	0.01	0.30	0.61	0.68	0.54	0.65	0.75				

monthly	monthly	monthly
max hr	min hr	ave hr
7.64	-0.58	0.74
12/4/07	12/9/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	662
possible hours	744
data capture	89.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
ppb
NOx

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
12/1/07	1.6	1.6	1.7	2.1	2.1	2.0	2.1	2.6	3.6	3.9	3.3	2.9	2.5	2.5	2.5	3.0	3.0	3.3	3.2	3.0	2.8	2.7	2.7		23	3.9	1.6	2.6
12/2/07	2.2	2.6	3.2	3.0	3.3	3.9	3.6	5.1		4.0	4.1	3.8	3.5					3.7	3.4	3.1	3.0	2.8	2.7		18	5.1	2.2	3.4
12/3/07	2.6	2.8	2.7	2.6	2.6	2.5	2.5	2.5	2.6	3.0	3.9	3.8	4.8	3.5	3.7	4.2	5.1	5.0	3.9	3.4	3.3	3.6	3.2		23	5.1	2.5	3.4
12/4/07	3.8			3.2	3.2	3.4	3.6	3.7	3.7	3.6	3.8	4.3	4.3	3.0								6.0	5.3		14	6.0	3.0	3.9
12/5/07	2.7	2.3	1.8	1.7	1.6	1.3	1.3	1.8	3.0	1.6	1.7	4.9		0.3					1.0	1.3	1.5	1.4	1.4		18	4.9	0.3	1.8
12/6/07	1.6	1.7	1.7	2.1	1.9	1.9	1.8	2.1	2.5					1.9	2.0	2.6	3.9	4.3	3.1	3.4	3.0	2.4	2.1		19	4.3	1.6	2.4
12/7/07	2.0	2.1	2.3	2.7	2.7	2.5	2.6	2.9	3.3	4.4	5.2	4.7	4.0	2.7	2.6	2.6	2.7	2.7	2.3	2.1	2.3	2.6	2.6		23	5.2	2.0	2.9
12/8/07	2.8	2.6	2.6	2.4	2.4	2.2	1.8	2.1	1.9	2.0	2.1	2.7	3.7	3.7		3.2	2.9	3.3	4.7	4.5	3.2	2.9	2.5		22	4.7	1.8	2.8
12/9/07	1.9	2.0	2.0	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.3	2.2	1.9	1.8	1.8	1.7	1.8	1.7	1.5	1.5	1.4	1.5		23	2.3	1.4	1.9
12/10/07	1.5	1.6	1.5	1.4	1.5	1.3	1.2	1.4	1.5	2.9	2.9	2.5	3.3	3.0	2.9	3.2	3.5	2.8	2.3	2.0	1.7	1.6	1.7		23	3.5	1.2	2.1
12/11/07	1.5			1.4	1.3	1.4	1.5	1.4	2.1	2.1	2.4	2.2	1.9	1.7	1.4	1.8	2.5	1.8	2.0	1.4	1.6	1.3	1.3		21	2.5	1.3	1.7
12/12/07	1.3	1.4	1.4	1.7	1.3	1.3	1.7	1.5	1.6	1.8	1.8	2.2	2.4	2.5	2.4	2.8	3.1	3.4	3.3	3.6	3.3	2.9	2.8		23	3.6	1.3	2.2
12/13/07	1.6	1.5	1.1	1.2	1.3	1.3	1.2	1.2	1.4	1.2	1.3	1.2	1.3	2.0	1.8	1.8	1.6	3.1	3.4	3.0	3.0	3.3	3.1		23	3.4	1.1	1.9
12/14/07	3.3	2.5	2.1	1.5	1.3	1.1	1.2	1.2	1.3	1.1	1.5	1.8	1.8	2.2	2.3	2.3	2.3	2.0	2.3	2.3	2.3	2.4	2.5		23	3.3	1.1	1.9
12/15/07	2.2	2.1	2.3	2.2	2.1	1.8	2.1	2.1	1.9	2.3	2.1	1.7	1.8	1.7	1.6	2.8	1.9	2.0	1.7	1.7	1.8	1.7	1.7		23	2.8	1.6	2.0
12/16/07	3.2	1.9	1.9	1.8	2.1	1.5	1.8	1.8	1.8	1.9	2.5	2.5	2.3	2.1	2.1	1.9	2.0	1.9	1.7	1.8	1.8	1.8	1.6		23	3.2	1.5	2.0
12/17/07	1.4	1.2	1.2	1.3	1.1	1.3	1.8	1.7	1.6	2.0	2.4	2.2	2.3	2.4	2.3	2.3	2.8	2.9	5.0	3.9	3.5	3.4	2.7		23	5.0	1.1	2.3
12/18/07	2.2			1.8	1.7	1.8	1.8	1.8		2.6					0.7		5.3	4.9	3.4	4.0	4.7	3.0	1.7		15	5.3	0.7	2.8
12/19/07	1.8	1.5	1.6	1.8	1.8	1.7	1.8	1.8	1.8	2.3	2.6	2.7	2.7	2.7	2.6	2.9	3.4	4.7	4.6	3.2	3.1	2.6	2.4		23	4.7	1.5	2.5
12/20/07	1.9	1.9	1.6	1.4	2.3	2.3	1.8	2.0	2.3	2.1	2.1	2.4	2.7	2.8	2.7	2.7	2.8	2.8	3.1	2.8	2.9	3.2	3.1		23	3.2	1.4	2.4
12/21/07	2.7	4.3	2.9	2.4	2.6	2.5	2.5	2.5	2.7	3.0	3.1	2.7	2.9	3.2	4.6	5.0	3.7	5.3	5.0	4.5	2.5	2.4	3.7		23	5.3	2.4	3.3
12/22/07	2.8	2.7	2.4	2.3	2.9	2.5	1.6	1.6	1.3	2.1	1.3	1.3	1.3	1.3	1.3	1.4	1.6	1.8	1.5	1.3	1.2	1.3	1.2		23	2.9	1.2	1.7
12/23/07	1.2	1.2	1.2	1.1	1.2	1.1	0.9	0.8	0.9	1.4	1.4	1.3	1.2	1.3	1.3	1.3	2.6	2.0	1.1	0.9	1.0	1.2	1.2		23	2.6	0.8	1.3
12/24/07	4.7	1.6	1.3	1.1	0.9	1.0	0.8	1.1	1.3	1.2	1.3	1.3	1.4	1.7	1.8	1.7	1.8	1.6	1.7	1.8	1.7	1.8	1.9		23	4.7	0.8	1.6
12/25/07	1.6			3.8	3.1	3.4	3.6	3.6	3.8	2.9	2.3	2.5	2.7	2.9	3.1	2.8	2.8	2.5	2.6	2.1	2.0	1.8	1.9		21	3.8	1.6	2.8
12/26/07	1.5	1.5	1.5	1.7	1.2	1.0	1.2	1.1	1.4	1.8	1.9	1.4	1.6	1.5	1.4	1.3	1.8	2.2	2.7	4.3	3.5	3.0	2.3		23	4.3	1.0	1.9
12/27/07	3.2	2.2	2.1	2.0	1.8	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.8	1.7	1.7	2.0	2.2	2.3	2.3	2.3	2.3	2.3		23	3.2	1.6	2.0
12/28/07	2.2	2.3	2.2	2.2	2.2	2.3	2.2	2.1	1.9	1.8	1.8	1.7	1.7	1.8	1.7	1.6	1.7	1.7	1.5	1.4	1.3	1.1	1.2		23	2.3	1.1	1.8
12/29/07	1.3	1.7	1.8	1.9	2.1	1.9	2.2	2.1	2.1	2.2	2.2	2.4	2.6	2.7	2.6	2.8	2.8	2.7	2.7	2.7	2.5	2.4	2.3		23	2.8	1.3	2.3
12/30/07	2.2	2.2	2.1	2.1	2.1	2.2	1.7	1.8	1.8	2.2	2.3	2.2	2.3	2.1	1.8	1.9	2.3	2.3	2.5	2.3	2.6	2.0	1.9		23	2.6	1.7	2.1
12/31/07	2.4	2.2	1.5	1.6	2.3	4.0	3.0	1.7	3.0	5.0	6.2	6.3	5.8	4.1	1.9	1.9	1.7	1.7	1.6	1.2	1.2	1.3	1.3		23	6.3	1.2	2.7
hr max	4.7	4.3	3.2	3.8	3.3	4.0	3.6	5.1	3.8	5.0	6.2	6.3	5.8	4.1	4.6	5.0	5.3	5.3	5.0	4.5	4.7	6.0	5.3	0.0				
hr min	1.2	1.2	1.1	1.1	0.9	1.0	0.8	0.8	0.9	1.1	1.3	1.2	1.2	0.3	0.7	1.3	1.6	1.6	1.0	0.9	1.0	1.1	1.2	0.0				
average	2.2	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.4	2.5	2.6	2.6	2.3	2.2	2.4	2.7	2.8	2.7	2.6	2.4	2.4	2.3	#DIV/0!				

monthly	monthly	monthly
max hr	min hr	ave hr
6.30	0.30	2.31
12/31/07	12/5/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	677
possible hours	744
data capture	91.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
ppb
NO

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
12/1/07	0.6	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.2	1.1	1.0	0.9	0.7	0.7	0.6	0.6	0.6	0.7	0.6	0.6		23	1.2	0.6	0.8
12/2/07	0.6	0.6	0.6	0.6	0.7	0.6	0.7	0.7		1.7	1.9	1.7	1.6					0.8	0.6	0.7	0.7	0.7	0.7		18	1.9	0.6	0.9
12/3/07	0.7	0.7	0.6	0.7	0.6	0.7	0.6	0.7	0.6	1.0	1.4	1.3	1.8	1.1	1.1	1.2	1.0	0.7	0.6	0.7	0.7	0.7	0.6		23	1.8	0.6	0.9
12/4/07	0.6			0.6	0.7	0.7	0.7	0.6	0.7	0.9	1.4	1.4	1.3	1.7								1.9	2.4		14	2.4	0.6	1.1
12/5/07	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.5	0.4	0.7	2.1		0.2					0.2	0.2	0.2	0.2	0.2		18	2.1	0.2	0.4
12/6/07	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.6					0.8	0.7	1.0	1.0	0.2	0.3	0.4	0.4	0.3	0.3		19	1.0	0.2	0.4
12/7/07	0.2	0.3	0.3	0.3	0.2	0.2	0.4	0.3	0.7	1.9	2.6	2.2	1.8	1.0	0.8	0.8	0.5	0.1	0.2	0.3	0.3	0.2	0.2		23	2.6	0.1	0.7
12/8/07	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.3	0.4	0.7	0.8	1.3	1.1		0.7	0.4	0.2	0.2	0.3	0.3	0.2	0.1		22	1.3	0.1	0.4
12/9/07	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.7	0.6	0.5	0.4	0.4	0.2	0.3	0.3	0.3	0.2	0.2	0.2		23	0.7	0.1	0.3
12/10/07	0.2	0.1	0.3	0.2	0.3	0.2	0.4	0.3	0.2	0.9	1.0	0.9	1.2	1.0	0.8	0.9	0.6	0.3	0.4	0.3	0.2	0.3	0.2		23	1.2	0.1	0.5
12/11/07	0.3			0.1	0.3	0.2	0.1	0.2	0.3	0.7	0.9	0.8	0.7	0.7	0.3	0.5	0.3	0.4	0.0	0.1	0.2	0.3	0.2		21	0.9	0.0	0.4
12/12/07	0.2	0.3	0.3	0.5	0.2	0.2	0.4	0.3	0.4	0.6	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.4	0.2	0.2	0.3	0.3		23	0.8	0.2	0.4
12/13/07	0.3	0.2	0.2	0.2	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.7	0.6	0.7	0.7	0.5	0.3	0.6	0.6	0.3	0.4	0.5	0.3		23	0.7	0.2	0.4
12/14/07	0.3	0.3	0.3	0.3	0.1	0.2	0.3	0.3	0.2	0.4	0.6	0.6	0.8	0.7	0.7	0.8	0.5	0.4	0.4	0.3	0.2	0.3	0.4		23	0.8	0.1	0.4
12/15/07	0.3	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.6	0.7	0.6	0.7	0.6	0.6	0.5	1.3	0.5	0.4	0.2	0.2	0.3	0.3	0.3		23	1.3	0.2	0.5
12/16/07	0.3	0.3	0.2	0.4	0.3	0.2	0.2	0.2	0.5	0.5	0.9	0.9	0.7	0.8	0.8	0.7	0.6	0.3	0.2	0.3	0.3	0.4	0.1		23	0.9	0.1	0.4
12/17/07	0.2	0.4	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.4	0.6	0.7	0.7	0.6	0.6	0.4	0.5	0.4	0.6	0.7	0.6	0.4	0.3		23	0.7	0.2	0.4
12/18/07	0.3			0.2	0.2	0.2	0.1	0.3		0.2					0.4		0.7	0.6	0.3	0.3	0.4	0.3	0.3		15	0.7	0.1	0.3
12/19/07	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.1	0.3	0.5	0.6	0.7	0.6	0.5	0.7	0.6	0.6	0.6	0.3	0.3	0.3	0.2	0.2		23	0.7	0.1	0.4
12/20/07	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.6	0.7	0.7	0.8	0.8	0.8	0.6	0.4	0.3	0.3	0.4	0.3	0.4	0.3		23	0.8	0.2	0.4
12/21/07	0.3	0.5	0.3	0.5	0.4	0.5	0.5	0.5	0.5	0.7	1.0	0.9	1.0	1.0	1.5	1.4	0.8	0.8	0.7	0.4	0.3	0.2	0.4		23	1.5	0.2	0.7
12/22/07	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.6	0.5	0.6	0.6	0.6	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.1		23	0.6	0.1	0.3
12/23/07	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.5	0.6	0.3	0.4	0.4	0.2	0.4	0.5	0.2	0.2	0.2	0.3	0.2	0.1		23	0.6	0.1	0.3
12/24/07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.6	0.6	0.5	0.5	0.4	0.2	0.2	0.2	0.3	0.1	0.2	0.3		23	0.6	0.1	0.3
12/25/07	0.2			0.3	0.3	0.3	0.2	0.2	0.3	0.5	0.6	0.7	0.6	0.7	0.6	0.7	0.4	0.3	0.2	0.2	0.2	0.2	0.2		21	0.7	0.2	0.4
12/26/07	0.1	0.3	0.2	0.3	0.2	0.2	0.3	0.2	0.3	0.7	0.7	0.6	0.6	0.6	0.5	0.4	0.3	0.3	0.1	0.4	0.2	0.2	0.2		23	0.7	0.1	0.3
12/27/07	0.2	0.3	0.3	0.4	0.5	0.5	0.4	0.7	0.7	0.6	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5		23	0.7	0.2	0.5
12/28/07	0.6	0.5	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.5	0.6	0.6	0.6	0.5	0.4	0.4	0.3	0.4	0.5	0.3		23	0.7	0.3	0.5
12/29/07	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.6	0.6	0.7	0.8	0.7	0.7	0.5	0.5	0.3	0.3	0.2	0.2	0.1	0.2		23	0.8	0.1	0.4
12/30/07	0.3	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.3	0.5	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.3	0.2	0.2	0.1	0.2	0.2		23	0.7	0.1	0.4
12/31/07	0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.2	0.6	1.3	2.2	2.8	2.6	1.6	0.6	0.5	0.3	0.2	0.2	0.2	0.2	0.1	0.3		23	2.8	0.1	0.7
hr max	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7	1.9	2.6	2.8	2.6	1.7	1.5	1.4	1.0	0.8	0.7	0.7	0.7	1.9	2.4	0.0				
hr min	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.3	0.4	0.2	0.2	0.4	0.2	0.1	0.0	0.1	0.1	0.1	0.1	0.0				
average	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.7	0.9	1.0	0.9	0.8	0.7	0.7	0.5	0.4	0.3	0.3	0.3	0.4	0.4	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
2.8	0.0	0.5
12/31/07	12/11/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	677
possible hours	744
data capture	91.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
ppb
NO2

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
12/1/07	1.1	1.1	1.2	1.6	1.6	1.5	1.5	2.0	2.7	3.1	2.4	2.0	1.7	1.7	1.8	2.3	2.3	2.9	2.8	2.6	2.4	2.2	2.1		23	3.1	1.1	2.0
12/2/07	1.8	1.9	2.6	2.4	2.7	3.4	3.1	4.4		2.5	2.3	2.2	2.0					3.1	2.9	2.5	2.4	2.3	2.2		18	4.4	1.8	2.6
12/3/07	2.1	2.2	2.1	2.0	2.0	2.0	2.0	1.9	1.9	2.2	2.7	2.7	3.2	2.5	2.7	3.2	4.3	4.4	3.3	2.9	2.7	3.0	2.8		23	4.4	1.9	2.6
12/4/07	3.3			2.6	2.6	2.9	3.0	3.2	3.1	2.7	2.6	3.1	3.1	1.7								4.4	3.2		14	4.4	1.7	3.0
12/5/07	2.5	2.2	1.8	1.6	1.4	1.3	1.2	1.8	2.6	1.2	1.2	2.9		0.2					1.0	1.2	1.4	1.4	1.3		18	2.9	0.2	1.6
12/6/07	1.4	1.5	1.7	1.8	1.8	1.7	1.7	1.9	2.1					1.3	1.4	1.8	3.1	4.3	2.9	3.3	2.9	2.3	2.0		19	4.3	1.3	2.2
12/7/07	1.9	2.0	2.3	2.5	2.5	2.5	2.5	2.7	2.9	2.8	3.0	2.8	2.8	2.2	2.1	2.2	2.6	2.7	2.3	2.0	2.3	2.5	2.6		23	3.0	1.9	2.5
12/8/07	2.7	2.5	2.7	2.4	2.2	1.9	1.8	2.1	1.9	1.7	1.7	2.3	2.8	2.9		2.7	2.8	3.1	4.5	4.4	3.3	2.8	2.3		22	4.5	1.7	2.6
12/9/07	1.9	1.9	2.0	2.0	2.1	2.1	2.0	2.1	2.0	2.0	1.9	1.9	1.7	1.7	1.6	1.5	1.5	1.6	1.6	1.3	1.2	1.4	1.5		23	2.1	1.2	1.8
12/10/07	1.4	1.5	1.5	1.5	1.1	1.3	1.4	1.3	1.2	2.2	2.1	1.9	2.1	2.2	2.2	2.5	2.9	2.5	2.0	1.7	1.4	1.4	1.4		23	2.9	1.1	1.8
12/11/07	1.3			1.1	1.3	1.4	1.3	1.3	1.9	2.0	1.9	1.7	1.5	1.4	1.2	1.5	2.5	1.9	1.8	1.4	1.4	1.2	1.2		21	2.5	1.1	1.5
12/12/07	1.3	1.2	1.3	1.3	1.1	1.3	1.4	1.6	1.5	1.3	1.4	1.6	1.8	1.9	1.9	2.3	2.8	3.1	3.1	3.5	3.1	2.8	2.6		23	3.5	1.1	2.0
12/13/07	1.5	1.0	1.2	1.0	1.0	1.1	1.1	0.9	0.9	1.0	1.1	1.2	0.9	1.4	1.3	1.4	1.3	2.8	3.1	2.8	2.9	3.1	3.0		23	3.1	0.9	1.6
12/14/07	3.0	2.3	2.1	1.3	1.3	1.1	1.0	1.1	0.9	1.2	1.2	1.3	1.6	1.5	1.8	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.2		23	3.0	0.9	1.7
12/15/07	2.2	2.2	1.9	1.8	1.9	1.7	1.8	1.9	1.8	1.7	1.5	1.4	1.4	1.2	1.3	1.8	1.5	1.7	1.7	1.6	1.5	1.6	1.7		23	2.2	1.2	1.7
12/16/07	2.8	1.7	1.7	1.6	1.7	1.4	1.6	1.8	1.6	1.4	1.7	1.6	1.7	1.5	1.7	1.8	1.9	1.7	1.7	1.5	1.6	1.7	1.8		23	2.8	1.4	1.7
12/17/07	1.2	1.3	1.2	1.3	1.2	1.3	1.4	1.4	1.3	1.8	2.1	1.8	1.7	1.6	1.9	2.1	2.4	2.7	4.8	3.5	3.3	3.1	2.5		23	4.8	1.2	2.0
12/18/07	1.9			1.8	1.7	1.6	1.7	1.6		5.0					0.6		4.8	4.5	3.2	3.8	4.4	3.0	1.5		15	5.0	0.6	2.7
12/19/07	1.6	1.3	1.4	1.7	1.7	1.6	1.6	1.6	1.7	1.8	2.2	2.2	2.2	2.3	2.3	2.5	3.1	4.4	4.3	3.0	3.0	2.5	2.2		23	4.4	1.3	2.3
12/20/07	1.8	1.6	1.5	1.3	2.2	2.1	1.7	2.0	2.0	1.7	1.7	1.8	2.2	2.2	2.1	2.2	2.6	2.6	2.9	2.7	2.8	3.0	3.0		23	3.0	1.3	2.2
12/21/07	2.5	4.0	2.7	2.2	2.5	2.3	2.3	2.4	2.3	2.4	2.3	1.9	2.2	2.4	3.3	3.9	3.2	5.0	4.6	4.1	2.2	2.1	3.6		23	5.0	1.9	2.9
12/22/07	2.8	2.5	2.1	2.2	2.9	2.4	1.5	1.5	1.3	1.5	0.9	0.9	1.0	0.9	1.0	1.2	1.5	1.7	1.6	1.3	1.2	1.3	1.2		23	2.9	0.9	1.6
12/23/07	1.2	1.2	1.2	1.1	1.1	1.0	0.8	0.8	0.8	1.1	1.2	1.1	1.0	0.9	1.0	1.2	2.4	1.8	0.8	0.9	0.9	1.2	1.3		23	2.4	0.8	1.1
12/24/07	4.6	1.5	1.3	1.0	0.9	1.0	0.7	1.0	1.2	0.9	0.9	1.0	1.2	1.2	1.2	1.5	1.5	1.6	1.5	1.6	1.6	1.9	1.8		23	4.6	0.7	1.4
12/25/07	1.5			3.4	3.1	3.3	3.5	3.5	3.5	2.6	1.9	2.0	2.2	2.2	2.5	2.3	2.5	2.4	2.6	2.0	1.8	1.6	1.8		21	3.5	1.5	2.5
12/26/07	1.3	1.3	1.4	1.5	1.0	0.8	1.1	1.0	1.3	1.3	1.4	1.0	1.2	1.3	1.2	1.2	1.6	2.0	2.4	4.1	3.3	2.9	1.9		23	4.1	0.8	1.6
12/27/07	3.0	2.0	1.8	1.8	1.6	1.6	1.4	1.4	1.2	1.3	1.1	1.2	1.2	1.3	1.3	1.6	1.7	1.8	1.9	1.9	2.0	2.2	2.2		23	3.0	1.1	1.7
12/28/07	1.8	1.9	1.8	2.0	1.8	1.8	1.8	1.7	1.7	1.5	1.6	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.1	1.1	1.0		23	2.0	1.0	1.5
12/29/07	1.2	1.4	1.7	1.7	1.8	1.7	1.8	1.7	1.8	1.7	1.8	1.7	1.9	2.2	2.2	2.3	2.5	2.4	2.4	2.3	2.4	2.3	2.3		23	2.5	1.2	2.0
12/30/07	2.1	2.1	2.0	1.9	2.1	2.1	1.7	1.7	1.7	1.7	1.8	1.5	1.6	1.5	1.4	1.7	2.0	2.3	2.5	2.0	2.4	2.0	1.8		23	2.5	1.4	1.9
12/31/07	2.2	2.0	1.2	1.4	2.1	3.8	2.7	1.6	2.8	4.0	4.2	3.7	3.6	2.9	1.7	1.7	1.6	1.6	1.4	1.1	1.1	1.0	1.3		23	4.2	1.0	2.2
hr max	4.6	4.0	2.7	3.4	3.1	3.8	3.5	4.4	3.5	5.0	4.2	3.7	3.6	2.9	3.3	3.9	4.8	5.0	4.8	4.4	4.4	4.4	3.6	0.0				
hr min	1.1	1.0	1.2	1.0	0.9	0.8	0.7	0.8	0.8	0.9	0.9	0.9	0.9	0.2	0.6	1.2	1.3	1.3	0.8	0.9	0.9	1.0	1.0	0.0				
average	2.0	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	2.0	1.9	1.9	1.9	1.7	1.7	2.0	2.4	2.6	2.5	2.3	2.2	2.2	2.0	#DIV/0!				

monthly	monthly	monthly
max hr	min hr	ave hr
5.0	0.2	2.0
12/18/07	12/5/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	677
possible hours	744
data capture	91.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
ppb
SO2

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
12/1/07	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.1	2.4	2.2	2.3	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.1	2.2	2.1	2.1		23	2.4	2.1	2.2
12/2/07	2.2	2.0	2.2	2.1	2.1	2.2	2.3	2.4		2.9	2.9	3.0	3.0					2.4	2.3	2.3	2.3	2.4	2.4		18	3.0	2.0	2.4
12/3/07	2.7	2.5	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.7	2.8	2.6	2.6	2.5	2.5	2.4	2.5	2.4	2.6	2.4	2.4	2.5		23	2.8	2.4	2.5
12/4/07	2.5			2.3	2.2	2.2	2.2	2.4	2.2	2.1	2.5	2.5	2.4	2.5								2.1	1.2		14	2.5	1.2	2.2
12/5/07	1.2	1.3	1.3	1.2	1.2	1.2	1.2	1.3	1.2	1.0	1.4	1.3		1.3					0.1	0.1	0.1	0.1	0.1		18	1.4	0.1	0.9
12/6/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1					0.1	1.2	1.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		19	1.2	0.1	0.2
12/7/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.2	0.1	1.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	1.4	0.1	0.2
12/8/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.1	2.1	2.9	2.9		2.4	1.6	1.0	0.1	0.1	1.1	0.1	0.1		22	2.9	0.1	0.8
12/9/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
12/10/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
12/11/07	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		21	0.1	0.1	0.1
12/12/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
12/13/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
12/14/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	1.1	0.1	0.1
12/15/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
12/16/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
12/17/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
12/18/07	0.1			0.1	0.1	0.1	0.1	0.1		0.1					0.1		0.1	0.1	0.1	0.1	0.1	0.1	0.1		15	0.1	0.1	0.1
12/19/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
12/20/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
12/21/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
12/22/07	1.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	1.1	0.1	0.1
12/23/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
12/24/07	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	1.0	0.1	0.1
12/25/07	0.1			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		21	0.1	0.1	0.1
12/26/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
12/27/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
12/28/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
12/29/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
12/30/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
12/31/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.5	3.0	2.3	1.5	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	3.0	0.1	0.5
hr max	2.7	2.5	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.9	2.9	3.0	3.0	2.9	2.5	2.5	2.4	2.5	2.4	2.6	2.4	2.4	2.5	0.0				
hr min	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0				
average	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.7	0.5	0.3	0.4	0.3	0.4	0.3	0.3	0.4	0.4	0.4	#DIV/0!				

	monthly max hr	monthly min hr	monthly ave hr
	3.0	0.1	0.4
	12/2/07	12/5/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	677
possible hours	744
data capture	91.0%

Max 3 hr ave.	3.0	12/2/07 12:00
Max 24 hr ave.	2.5	12/2/07 8:00

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
ppb
O3

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
12/1/07	26.3	26.4	25.8	24.9	24.6	24.3	23.7	22.6	21.1	21.4	22.9	23.7	24.0	25.3	25.6	23.4	23.4	20.7	21.6	21.7	20.9	21.0	22.3		23	26.4	20.7	23.4
12/2/07	23.9	24.9	21.6	22.4	23.0	22.6	24.1	23.6	21.2	22.5	23.6	26.0	26.4	26.2	27.0	27.7	28.1	27.0	26.9	27.1	27.0	27.3	28.0		23	28.1	21.2	25.1
12/3/07	28.4	28.3	28.7	28.8	28.4	27.4	27.7	28.3	28.1	28.3	28.9	30.4	31.9	32.4	34.1	33.2	31.0	29.7	30.5	30.9	29.7	28.2	26.8		23	34.1	26.8	29.6
12/4/07	26.4			27.8	28.9	28.2	27.5	27.2	27.3	27.0	26.3	26.0	26.4	27.6	27.9	26.0	22.3	20.1	21.3	23.2	18.6	23.5	25.7		21	28.9	18.6	25.5
12/5/07	26.7	27.8	28.6	28.7	28.3	28.7	27.6	26.7	24.6	29.0	30.7	31.6				34.2	33.6	32.8	32.4	31.3	29.6	27.6	27.4		20	34.2	24.6	29.4
12/6/07	25.1	23.2	21.4	18.9	18.2	17.6	16.6	16.1	16.0	18.0		18.5	21.7	25.1	25.4	23.4	20.7	19.5	19.9	18.3	19.0	20.8	21.0		22	25.4	16.0	20.2
12/7/07	17.3	15.7	15.5	16.0	15.9	15.3	15.0	14.3	15.3	16.8	19.6	24.2	29.0	30.2	31.0	31.7	31.7	31.5	32.7	31.6	30.8	30.8	30.8		23	32.7	14.3	23.6
12/8/07	27.2	26.7	26.7	24.9	29.7	31.1	31.3	29.2	30.2	31.2	32.2	31.6	30.6	30.6	30.9	31.6	30.2	29.5	26.8	25.2	27.7	22.7	25.5		23	32.2	22.7	28.8
12/9/07	23.7	23.8	23.9	24.8	22.8	21.9	22.4	22.6	23.0	25.3	27.8	28.4	31.6	33.1	34.7	35.1	34.4	32.1	33.1	32.3	31.6	30.6	30.3		23	35.1	21.9	28.2
12/10/07	29.1	28.5	29.0	29.0	27.7	26.8	29.5	28.5	28.0	27.6	26.7	26.9	27.2	27.6	26.5	25.2	23.5	27.9	30.4	30.5	31.1	32.6	31.5		23	32.6	23.5	28.3
12/11/07	31.7			36.1	34.5	33.9	33.3	34.8	31.7	33.8	35.6	37.2	37.4	37.6	38.0	36.9	36.0	35.1	34.3	35.0	33.8	32.5	32.0		21	38.0	31.7	34.8
12/12/07	31.8	29.7	28.3	28.3	29.4	28.7	27.6	27.2	26.6	27.8	28.5	29.4	30.6	31.3	31.7	31.5	30.3	28.9	26.6	27.3	29.8	28.6	27.8		23	31.8	26.6	29.0
12/13/07	29.0	29.6	31.9	31.8	31.8	31.6	31.6	31.7	31.2	31.1	31.9	33.3	32.7	29.2	30.9	31.7	31.8	22.2	19.5	21.6	20.8	21.2	21.4		23	33.3	19.5	28.7
12/14/07	21.2	22.0	23.9	27.4	29.3	29.8	29.7	29.5	28.4	28.4	27.8	27.1	26.5	25.7	25.4	24.9	24.6	22.7	23.7	22.0	20.8	20.3	19.8		23	29.8	19.8	25.3
12/15/07	19.3	20.4	22.7	23.9	24.1	24.8	23.2	23.4	22.5	22.5	24.2	25.5	25.8	26.7	28.7	28.8	29.9	28.9	26.1	24.7	23.5	22.4	21.7		23	29.9	19.3	24.5
12/16/07	19.1	21.9	22.9	21.6	21.5	20.8	21.8	21.9	19.9	20.3	24.0	26.4	27.4	29.0	27.2	27.3	25.4	24.8	22.1	25.1	21.5	21.7	22.7		23	29.0	19.1	23.3
12/17/07	22.2	21.6	23.1	24.1	23.2	24.3	26.7	28.7	30.0	29.2	30.9	34.5	37.2	36.9	37.0	36.0	31.4	29.5	21.6	22.5	22.9	27.1	28.5		23	37.2	21.6	28.2
12/18/07	30.0			28.6	28.0	26.5	25.6	25.5	26.0		14.9	22.3	10.5			28.7	21.4	20.5	23.3	23.9	22.7	22.9	23.7		18	30.0	10.5	23.6
12/19/07	23.8	21.9	21.3	21.6	23.0	23.2	28.0	29.3	31.0	32.3	33.6	33.0	31.4	30.4	30.1	28.2	24.9	20.5	20.4	20.0	21.1	20.1	20.4		23	33.6	20.0	25.6
12/20/07	23.8	26.7	28.5	29.4	21.6	21.9	25.0	26.9	21.3	21.5	21.5	22.5	24.6	27.1	28.4	26.3	23.1	22.8	19.4	17.6	17.8	18.5	15.8		23	29.4	15.8	23.1
12/21/07	17.7	12.7	11.4	12.8	11.2	8.4	8.5	12.4	10.3	10.8	13.6	13.7	15.3	16.6	17.0	17.2	19.9	16.3	17.6	19.8	24.5	24.1	21.6		23	24.5	8.4	15.4
12/22/07	25.8	25.6	27.1	27.4	27.3	26.4	25.9	25.0	25.2	26.2	29.3	29.6	30.6	31.5	30.3	27.9	26.6	25.3	24.8	24.9	24.2	23.7	24.4		23	31.5	23.7	26.7
12/23/07	23.6	24.0	24.4	24.2	23.6	23.5	23.4	23.2	23.5	23.7	25.4	26.3	27.1	27.2	28.7	28.8	26.3	25.6	26.7	25.9	26.0	25.9	24.9		23	28.8	23.2	25.3
12/24/07	20.8	24.7	26.2	27.4	24.7	25.6	26.5	25.0	24.0	24.4	25.1	26.1	28.4	29.7	30.0	31.0	30.6	28.4	25.9	24.3	22.6	21.4	20.2		23	31.0	20.2	25.8
12/25/07	26.1			23.1	23.6	25.2	24.6	24.1	23.9	24.9	25.2	24.9	25.1	26.2	28.1	28.8	26.8	27.0	24.6	25.9	19.8	20.5	23.5		21	28.8	19.8	24.9
12/26/07	23.3	20.4	19.3	17.1	20.5	20.8	20.6	18.9	20.4	20.6	21.4	23.0	24.2	26.6	28.0	27.5	24.4	19.6	16.7	13.8	18.6	21.3	23.7		23	28.0	13.8	21.3
12/27/07	21.2	22.2	23.1	24.3	24.9	26.0	26.6	26.6	26.5	27.2	27.9	28.4	28.7	28.5	27.9	27.8	27.1	26.8	25.9	25.6	25.6	25.3	23.6		23	28.7	21.2	26.0
12/28/07	23.6	22.6	21.7	21.6	22.2	22.9	23.9	24.1	24.6	25.0	26.5	27.9	29.3	29.5	29.2	28.8	29.0	29.9	30.5	31.0	31.3	31.0	29.8		23	31.3	21.6	26.8
12/29/07	29.0	26.6	25.6	25.9	25.4	24.6	23.6	23.5	23.3	23.7	24.1	24.6	26.5	27.2	27.6	27.4	27.3	25.1	24.2	24.5	24.3	23.2	22.1		23	29.0	22.1	25.2
12/30/07	23.4	22.0	20.1	18.1	17.8	19.9	20.6	18.9	22.0	25.1	25.2	25.5	25.4	26.5	27.5	26.7	25.0	23.8	23.3	22.4	18.7	18.8	17.9		23	27.5	17.8	22.4
12/31/07	19.6	19.2	23.2	19.7	17.1	13.5	16.2	20.7	18.2	18.1	19.8	19.9	19.1	21.4	26.9	26.9	26.9	24.5	24.1	24.4	23.3	22.6	22.3		23	26.9	13.5	21.2
hr max	31.8	29.7	31.9	36.1	34.5	33.9	33.3	34.8	31.7	33.8	35.6	37.2	37.4	37.6	38.0	36.9	36.0	35.1	34.3	35.0	33.8	32.6	32.0	0.0				
hr min	17.3	12.7	11.4	12.8	11.2	8.4	8.5	12.4	10.3	10.8	13.6	13.7	10.5	16.6	17.0	17.2	19.9	16.3	16.7	13.8	17.8	18.5	15.8	0.0				
average	24.5	23.7	23.9	24.5	24.3	24.1	24.5	24.5	24.0	24.8	25.8	26.7	27.1	28.4	29.0	28.7	27.3	25.8	25.1	25.0	24.5	24.5	24.4	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
38.0	8.4	25.4
12/11/07	12/21/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	698
possible hours	744
data capture	93.8%

Max 8 hr ave. 36.7 12/11/07 11:00

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
DegC
StnT

data
channel
DegC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
12/1/07	22	22	22	22	22	22	22	21	21	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	24	22.1	21.4	21.7
12/2/07	22	22	22	21	21	21	21	21	20	20	21	21	21	21	21	21	21	21	20	20	20	20	20	20	24	21.7	19.5	20.7
12/3/07	20	20	21	21	21	21	21	21	21	21	22	23	23	23	24	24	24	23	23	24	24	24	24	24	24	24.4	20.3	22.3
12/4/07	24	24	25	24	24	23	23	23	23	23	20	20	22	19	18	21	22	21	22	23	23	24	23	22	24	24.6	18.5	22.4
12/5/07	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	21	22	21	23	23	24	24	24	24	24.1	21.1	22.2
12/6/07	23	23	23	23	23	23	23	23	23	22	23	23	23	23	22	17	19	21	21	21	21	21	21	21	24	23.4	17.4	21.9
12/7/07	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	24	21.4	20.9	21.2
12/8/07	21	22	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	24	21.5	21.0	21.3
12/9/07	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	24	21.4	20.9	21.2
12/10/07	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	24	21.4	20.8	21.1
12/11/07	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	24	21.4	20.9	21.1
12/12/07	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	24	21.3	20.9	21.0
12/13/07	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	24	21.2	20.9	21.0
12/14/07	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	24	21.3	21.0	21.2
12/15/07	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	24	21.4	20.9	21.1
12/16/07	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	24	21.4	21.0	21.1
12/17/07	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	23	23	23	23	23	23	24	22.9	20.9	21.5
12/18/07	23	23	23	23	23	22	23	22	23	23	23	19	20	23	23	22	23	23	22	22	22	22	22	22	24	23.2	19.2	22.4
12/19/07	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	21	22	21	22	24	22.4	21.4	22.1
12/20/07	21	21	21	21	21	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	24	21.9	21.4	21.6
12/21/07	22	22	22	21	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	24	21.9	21.4	21.6
12/22/07	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	24	22.1	21.5	21.8
12/23/07	22	21	21	20	20	20	21	21	21	21	21	22	22	22	22	22	22	22	22	22	22	22	22	22	24	21.9	20.1	21.2
12/24/07	22	22	22	22	22	22	22	22	22	22	22	22	21	21	21	21	21	21	21	21	21	21	21	22	24	22.0	21.3	21.6
12/25/07	21	22	22	22	22	21	21	21	21	21	21	22	22	22	22	22	22	22	22	22	21	22	22	22	24	21.9	21.4	21.5
12/26/07	22	21	21	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	24	21.9	21.4	21.6
12/27/07	21	22	22	22	22	22	22	22	22	22	22	22	22	22	22	21	22	22	22	22	22	21	21	22	24	21.6	21.4	21.5
12/28/07	21	21	21	21	21	22	22	22	22	22	22	21	21	21	21	21	21	21	21	21	22	21	21	22	24	21.5	21.4	21.4
12/29/07	21	21	21	21	21	22	22	22	22	22	22	22	22	21	21	21	22	22	22	22	21	21	22	22	24	21.7	21.4	21.5
12/30/07	21	22	21	22	22	22	22	22	22	22	21	21	21	21	21	21	21	21	21	21	21	21	21	22	24	21.7	21.3	21.5
12/31/07	21	21	21	21	21	22	22	22	22	22	22	22	21	22	22	22	22	22	22	22	22	22	22	22	24	21.8	21.4	21.6
hr max	24.0	24.1	24.6	23.9	23.6	23.4	23.4	23.4	23.4	23.0	23.1	22.7	23.1	23.4	23.6	23.7	23.6	23.2	23.4	23.6	23.8	24.1	24.0	24.4				
hr min	20.3	20.4	20.5	20.2	20.1	20.4	20.6	20.6	20.2	20.3	19.9	19.2	20.4	18.9	18.5	17.4	18.8	20.7	20.4	20.1	19.9	19.6	19.5	20.1				
average	21.6	21.5	21.6	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.4	21.3	21.5	21.5	21.4	21.3	21.4	21.5	21.5	21.6	21.6	21.6	21.6	21.7				

monthly	monthly	monthly
max hr	min hr	ave hr
24.6	17.4	21.5
12/4/07	12/6/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
w/m2
solar

data
channel
w/m2

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	24 hr	total
12/1/07	0	0	0	0	0	0	0	0	22	49	71	163	150	122	103	35	35	0	0	0	0	0	0	0	24	163	749	749
12/2/07	0	0	0	0	0	0	0	0	70	218	335	395	389	354	278	169	50	0	0	0	0	0	0	0	24	395	2257	2257
12/3/07	0	0	0	0	0	0	0	0	33	138	222	305	347	309	229	132	33	0	0	0	0	0	0	0	24	347	1747	1747
12/4/07	0	0	0	0	0	0	0	0	24	101	216	282	245	359	278	60	12	0	0	0	0	0	0	0	24	359	1578	1578
12/5/07	0	0	0	0	0	0	0	0	70	221	376	428	408	214	135	79	25	0	0	0	0	0	0	0	24	428	1956	1956
12/6/07	0	0	0	0	0	0	0	0	61	139	178	146	223	252	328	135	44	0	0	0	0	0	0	0	24	328	1506	1506
12/7/07	0	0	0	0	0	0	0	0	68	226	346	424	433	397	284	188	53	0	0	0	0	0	0	0	24	433	2419	2419
12/8/07	0	0	0	0	0	0	0	0	20	96	143	183	234	244	178	99	30	0	0	0	0	0	0	0	24	244	1227	1227
12/9/07	0	0	0	0	0	0	0	0	20	93	176	205	253	232	365	181	52	0	0	0	0	0	0	0	24	365	1575	1575
12/10/07	0	0	0	0	0	0	0	0	78	229	280	339	419	450	318	182	52	0	0	0	0	0	0	0	24	450	2346	2346
12/11/07	0	0	0	0	0	0	0	0	18	161	302	377	339	339	264	141	37	0	0	0	0	0	0	0	24	377	1978	1978
12/12/07	0	0	0	0	0	0	0	0	80	221	285	389	523	411	310	184	53	0	0	0	0	0	0	0	24	523	2456	2456
12/13/07	0	0	0	0	0	0	0	0	42	166	290	329	357	365	324	177	47	0	0	0	0	0	0	0	24	365	2097	2097
12/14/07	0	0	0	0	0	0	0	0	32	110	241	310	279	215	149	91	22	0	0	0	0	0	0	0	24	310	1448	1448
12/15/07	0	0	0	0	0	0	0	0	21	196	247	260	266	370	307	184	56	0	0	0	0	0	0	0	24	370	1906	1906
12/16/07	0	0	0	0	0	0	0	0	57	221	347	371	406	381	299	189	55	0	0	0	0	0	0	0	24	406	2326	2326
12/17/07	0	0	0	0	0	0	0	0	30	79	203	315	401	335	249	173	47	0	0	0	0	0	0	0	24	401	1832	1832
12/18/07	0	0	0	0	0	0	0	0	37	163	287	365	397	325	270	148	50	0	0	0	0	0	0	0	24	397	2042	2042
12/19/07	0	0	0	0	0	0	0	0	18	121	269	201	160	154	177	175	52	0	0	0	0	0	0	0	24	269	1326	1326
12/20/07	0	0	0	0	0	0	0	0	31	96	144	211	301	289	197	131	28	0	0	0	0	0	0	0	24	301	1427	1427
12/21/07	0	0	0	0	0	0	0	0	9	51	90	152	207	180	169	82	12	0	0	0	0	0	0	0	24	207	951	951
12/22/07	0	0	0	0	0	0	0	0	34	149	265	344	381	360	253	139	29	0	0	0	0	0	0	0	24	381	1955	1955
12/23/07	0	0	0	0	0	0	0	0	13	94	134	196	254	194	206	124	57	0	0	0	0	0	0	0	24	254	1272	1272
12/24/07	0	0	0	0	0	0	0	0	45	82	141	248	233	260	219	150	51	0	0	0	0	0	0	0	24	260	1429	1429
12/25/07	0	0	0	0	0	0	0	0	6	40	86	154	168	178	146	89	47	0	0	0	0	0	0	0	24	178	914	914
12/26/07	0	0	0	0	0	0	0	0	53	193	310	393	467	398	296	180	58	0	0	0	0	0	0	0	24	467	2347	2347
12/27/07	0	0	0	0	0	0	0	0	8	37	74	91	87	60	45	24	7	0	0	0	0	0	0	0	24	91	432	432
12/28/07	0	0	0	0	0	0	0	0	0	13	31	53	70	62	51	28	10	0	0	0	0	0	0	0	24	70	318	318
12/29/07	0	0	0	0	0	0	0	0	12	40	101	170	157	106	88	58	25	0	0	0	0	0	0	0	24	170	758	758
12/30/07	0	0	0	0	0	0	0	0	36	142	279	300	459	431	333	110	44	0	0	0	0	0	0	0	24	459	2132	2132
12/31/07	0	0	0	0	0	0	0	0	11	66	153	267	245	175	220	109	44	0	0	0	0	0	0	0	24	267	1290	1290
hr max	0	0	0	0	0	0	0	0	80	229	376	428	523	450	365	189	58	0	0	0	0	0	0	0				
hr min	0	0	0	0	0	0	0	0	0	13	31	53	70	60	45	24	7	0	0	0	0	0	0	0				
average	0	0	0	0	0	0	0	0	34	127	214	270	299	275	228	127	39	0	0	0	0	0	0	0				

monthly	monthly	monthly
max hr	Max24hr	Total
523	2456	49994
12/12/07	12/12/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
mmhg
BP

data
channel
mmhg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
12/1/07	707	707	706	705	705	704	703	703	702	702	701	700	699	698	697	697	697	698	699	700	700	701	701	701	24	707	696.9	701.3
12/2/07	703	703	704	705	705	706	707	708	709	710	710	711	711	711	712	712	712	712	712	712	713	713	712	712	24	713	702.6	709.3
12/3/07	711	711	711	710	710	709	708	709	708	708	708	708	708	708	707	707	707	708	708	708	708	708	707	707	24	711	706.9	708.4
12/4/07	707	707	706	706	705	704	704	703	702	702	701	701	700	700	700	700	700	700	704	704	704	704	704	708	24	708	699.7	703.1
12/5/07	708	708	708	708	710	710	710	710	710	710	713	712	711	710	709	709	708	707	707	706	705	704	704	703	24	713	703.0	708.4
12/6/07	702	702	702	702	702	702	702	702	703	703	704	704	704	704	703	703	704	704	704	704	705	705	705	705	24	705	701.5	703.3
12/7/07	706	706	706	706	706	707	707	707	708	709	709	709	709	708	708	709	709	710	710	711	712	712	713	713	24	713	705.5	708.6
12/8/07	714	714	714	715	715	715	715	716	717	717	717	717	717	717	716	716	716	716	716	717	717	717	717	717	24	717	713.9	716.0
12/9/07	716	716	716	716	715	715	715	715	715	714	714	714	713	713	712	711	711	710	710	710	709	709	708	708	24	716	707.6	712.6
12/10/07	707	707	706	706	706	705	705	705	705	705	706	706	706	706	706	706	707	707	708	708	709	709	710	711	24	711	704.8	706.7
12/11/07	711	711	711	711	711	712	711	711	712	713	713	713	712	712	712	712	712	712	712	713	712	712	712	712	24	713	710.6	711.9
12/12/07	712	711	711	710	710	709	709	708	708	707	706	706	704	704	703	703	703	702	702	703	702	702	703	703	24	712	702.4	705.8
12/13/07	703	703	704	704	704	704	705	705	705	706	707	707	707	708	708	708	709	710	710	711	711	712	712	712	24	712	703.3	707.2
12/14/07	712	713	713	713	713	713	713	713	714	714	714	714	713	713	713	712	712	712	712	712	712	712	711	711	24	714	711.2	712.7
12/15/07	711	710	710	710	709	709	709	709	708	708	708	708	707	707	706	706	706	706	706	706	706	706	706	706	24	711	705.6	707.6
12/16/07	706	706	706	706	705	705	705	705	706	706	706	706	705	705	705	705	705	705	705	705	705	705	705	705	24	706	704.8	705.2
12/17/07	705	705	705	704	704	704	703	703	703	702	702	701	700	699	699	699	699	699	699	699	699	699	699	700	24	705	698.7	701.2
12/18/07	700	700	700	701	701	701	702	702	703	703	704	704	704	703	704	704	704	704	705	705	705	705	705	704	24	705	699.7	702.8
12/19/07	704	704	704	704	703	703	702	702	701	701	701	700	700	699	699	699	699	699	699	699	700	700	700	700	24	704	698.7	700.8
12/20/07	700	700	700	700	700	700	699	699	699	699	699	699	698	698	697	697	697	697	697	697	697	697	697	697	24	700	696.6	698.3
12/21/07	697	697	697	697	697	697	697	697	697	698	699	699	699	699	699	700	701	703	704	705	706	706	707	708	24	708	696.5	700.1
12/22/07	708	709	709	709	710	710	710	709	709	709	708	708	707	706	706	706	706	706	706	706	706	705	704	704	24	710	704.0	707.3
12/23/07	704	703	703	703	703	703	703	704	704	704	705	705	705	705	705	705	706	706	706	707	707	707	707	707	24	707	702.9	704.9
12/24/07	707	707	706	707	706	705	705	705	704	704	704	703	702	701	700	700	700	700	700	700	700	700	700	700	24	707	699.5	702.6
12/25/07	701	701	702	702	703	704	705	706	706	706	707	707	707	707	707	707	707	708	708	708	708	708	708	707	24	708	700.9	705.9
12/26/07	707	707	707	707	706	706	706	706	706	706	706	706	705	705	704	704	705	705	705	705	705	705	706	706	24	707	704.4	705.6
12/27/07	706	706	706	706	706	706	706	707	707	707	707	707	707	707	707	707	707	708	708	708	707	707	707	707	24	708	705.5	706.8
12/28/07	707	707	707	706	706	706	705	705	705	705	705	704	704	703	703	703	703	703	703	703	703	703	703	703	24	707	703.0	704.4
12/29/07	703	703	703	703	702	702	702	702	702	702	702	701	700	700	700	700	700	700	700	700	699	699	699	699	24	703	699.1	700.8
12/30/07	699	699	699	699	699	698	699	698	698	698	699	699	698	697	697	697	698	698	698	699	699	699	700	700	24	700	697.2	698.4
12/31/07	700	700	701	701	702	702	703	704	705	706	707	707	708	708	708	709	710	710	711	712	713	713	714	714	24	714	699.9	706.9
hr max	716.1	715.9	715.5	715.6	715.1	715.0	715.3	715.9	716.6	716.9	717.1	717.0	716.8	716.5	716.1	715.9	716.2	716.3	716.4	716.5	716.5	716.6	716.6	716.5				
hr min	696.8	696.7	696.7	696.7	696.7	696.5	696.8	697.4	697.3	697.6	698.5	698.5	697.7	697.3	696.9	697.2	696.9	696.6	697.0	697.2	697.0	696.9	696.7	697.0				
average	705.9	705.7	705.7	705.8	705.7	705.6	705.6	705.7	705.7	705.9	706.1	705.9	705.4	705.1	704.9	705.0	705.2	705.3	705.6	705.8	705.9	705.9	705.9	706.1				

monthly max hr	monthly min hr	monthly ave hr
717	696.5	705.6
12/8/07	12/21/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
%
RH

data
channel
%

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
12/1/07	54.1	53.5	56.3	66.3	83.0	91.0	92.2	92.4	91.7	90.6	91.0	90.0	88.5	89.3	89.9	90.9	90.9	93.1	93.2	92.9	92.6	92.3	91.1	90.5	24	93.2	53.5	85.3
12/2/07	91.4	91.1	89.9	89.4	88.4	88.2	86.8	85.9	85.7	85.2	81.6	76.7	75.3	73.1	72.6	71.7	72.6	85.1	87.5	88.7	87.9	87.1	84.4	81.3	24	91.4	71.7	83.7
12/3/07	80.1	80.5	80.1	80.5	83.2	86.3	86.8	85.0	84.4	79.4	73.4	67.0	61.2	59.9	59.1	64.1	71.5	75.5	75.6	75.5	77.6	81.2	85.0	87.8	24	87.8	59.1	76.7
12/4/07	86.6	88.3	85.9	86.5	85.6	82.4	83.7	86.9	87.2	86.2	80.7	72.3	71.9	72.0	72.0	72.0	73.0	73.0	73.0	74.0	74.0	74.0	75.0	75.0	24	88.3	71.9	78.8
12/5/07	75.0	76.0	76.0	76.0	77.0	77.0	77.0	78.0	78.0	78.0	78.9	76.6	74.8	77.8	80.1	82.0	83.6	85.8	87.3	89.9	91.7	92.8	92.5	91.0	24	92.8	74.8	81.4
12/6/07	89.4	88.8	88.9	88.8	87.6	88.4	90.3	89.6	85.9	81.8	81.5	82.5	80.4	74.2	68.2	71.0	77.1	80.6	82.2	84.3	86.0	83.1	82.6	85.1	24	90.3	68.2	83.3
12/7/07	89.9	89.4	86.8	85.5	84.0	85.1	86.6	87.2	83.5	76.6	75.2	71.9	64.1	61.6	61.1	58.7	62.1	66.4	65.9	68.4	68.3	69.9	72.6	74.2	24	89.9	58.7	74.8
12/8/07	79.1	78.6	79.1	82.1	75.7	72.7	72.1	76.3	72.0	67.2	62.7	62.2	60.8	61.3	59.1	59.1	63.7	66.8	70.6	74.2	71.7	79.5	78.2	84.0	24	84.0	59.1	71.2
12/9/07	85.8	85.9	86.4	87.4	88.3	89.2	90.2	90.3	90.8	89.1	84.9	82.7	81.0	82.1	78.5	80.5	85.7	91.6	91.6	91.4	91.7	91.0	91.5	92.0	24	92.0	78.5	87.5
12/10/07	91.2	89.9	89.6	88.8	88.4	88.0	89.4	88.0	88.2	87.6	88.8	83.4	72.1	66.1	64.8	64.5	71.5	76.7	74.0	73.4	79.2	83.8	87.2	89.0	24	91.2	64.5	81.8
12/11/07	85.5	81.5	81.0	79.6	82.1	82.6	86.9	87.1	90.5	85.9	77.9	74.3	73.5	73.6	70.8	69.8	74.6	81.7	89.9	92.8	94.6	93.3	92.4	92.6	24	94.6	69.8	83.1
12/12/07	92.2	91.4	90.7	91.1	91.1	91.6	91.2	90.7	90.0	90.1	90.1	83.9	73.3	69.2	69.3	71.2	77.7	83.0	87.1	82.5	73.5	72.0	73.4	80.1	24	92.2	69.2	83.2
12/13/07	83.9	79.7	71.4	70.6	69.2	68.8	69.0	70.7	70.9	67.5	62.8	62.3	64.5	69.9	67.7	68.8	70.3	77.5	80.8	83.1	85.3	85.6	86.4	88.5	24	88.5	62.3	74.0
12/14/07	88.3	88.1	88.3	85.4	83.9	83.1	82.8	83.2	83.5	80.1	74.4	71.6	76.3	78.9	80.1	81.5	84.1	89.0	88.5	92.9	94.2	94.6	95.1	96.6	24	96.6	71.6	85.2
12/15/07	96.7	97.0	97.0	96.1	95.2	95.0	94.6	94.4	94.0	93.8	91.7	86.0	78.4	68.1	61.8	61.6	66.3	77.3	86.5	90.0	90.9	93.2	95.4	94.8	24	97.0	61.6	87.3
12/16/07	92.7	87.0	85.8	85.3	86.3	91.1	89.1	88.4	87.9	83.5	71.7	62.5	59.6	52.0	51.0	53.1	63.4	72.1	78.1	71.5	76.4	79.2	80.8	80.4	24	92.7	51.0	76.2
12/17/07	82.6	84.0	84.5	84.1	89.0	91.2	89.2	87.9	85.0	83.4	77.0	67.2	58.3	59.1	59.4	62.5	72.9	83.7	90.3	92.6	90.9	86.8	84.3	85.6	24	92.6	58.3	80.5
12/18/07	80.7	81.9	81.5	76.1	71.5	71.8	72.8	73.0	70.8	61.7	39.5	37.8	32.3	37.4	51.7	53.7	64.1	71.5	70.3	67.2	69.8	73.7	78.5	80.2	24	81.9	32.3	65.4
12/19/07	75.2	81.6	86.1	90.2	89.4	90.3	85.7	83.5	79.2	74.7	66.0	66.6	69.6	70.2	68.6	67.9	74.8	83.8	86.6	88.0	85.4	86.5	83.4	79.9	24	90.3	66.0	79.7
12/20/07	78.7	74.2	74.4	70.8	83.1	83.2	78.8	71.0	76.4	79.6	81.1	78.2	73.8	65.2	68.7	72.3	80.1	82.9	87.8	91.9	94.0	96.1	95.6	92.2	24	96.1	65.2	80.4
12/21/07	93.9	95.3	95.8	94.9	93.7	95.5	95.6	94.7	95.1	94.4	91.5	89.0	84.5	83.0	80.5	80.4	84.6	88.0	86.4	87.7	90.3	91.3	90.2	83.0	24	95.8	80.4	90.0
12/22/07	70.5	71.4	70.3	71.1	72.3	77.2	81.1	81.4	79.7	71.0	68.1	66.6	65.7	63.3	67.7	71.9	71.8	72.3	74.1	76.1	77.8	78.4	80.3	81.8	24	81.8	63.3	73.4
12/23/07	81.6	80.5	79.4	79.4	80.2	81.4	82.5	83.4	83.6	82.4	85.1	84.5	82.5	82.3	81.3	80.8	79.0	81.9	81.5	83.8	83.7	84.4	85.2	85.5	24	85.5	79.0	82.3
12/24/07	84.9	84.0	82.1	82.0	90.7	92.7	94.0	93.0	93.1	93.8	93.7	88.5	75.9	68.1	67.1	65.8	68.0	73.7	78.6	80.7	82.3	81.6	82.1	79.9	24	94.0	65.8	82.3
12/25/07	92.2	92.5	91.4	90.0	89.3	87.1	85.7	85.9	85.6	84.8	83.2	80.1	78.7	76.2	75.2	76.1	80.0	85.4	91.5	92.7	92.9	95.9	95.9	95.1	24	95.9	75.2	86.8
12/26/07	92.9	92.8	96.1	93.4	92.7	91.9	91.5	92.8	91.6	85.3	79.9	78.9	72.6	68.8	61.9	69.3	79.0	92.5	95.2	95.2	94.5	94.5	94.7	94.4	24	96.1	61.9	87.2
12/27/07	94.1	94.0	94.0	94.2	94.1	94.3	94.4	94.2	94.3	94.2	94.5	94.9	94.9	94.8	94.4	93.7	93.8	93.9	93.9	94.1	94.3	94.4	94.1	94.0	24	94.9	93.7	94.2
12/28/07	94.0	94.0	94.1	94.3	94.3	94.4	94.3	94.1	94.1	94.1	94.0	94.0	93.9	94.0	94.0	94.3	94.3	94.2	94.2	94.1	94.2	94.5	94.6	94.6	24	94.6	93.9	94.2
12/29/07	94.9	94.9	95.2	94.8	94.2	93.8	93.7	93.4	92.9	92.9	93.1	93.4	93.7	94.4	93.3	92.6	91.3	91.7	90.8	88.3	88.2	89.5	92.0	92.8	24	95.2	88.2	92.7
12/30/07	92.5	92.3	91.7	91.2	91.7	91.9	90.6	91.0	87.2	81.2	74.6	72.7	68.2	68.6	65.2	69.9	73.8	79.1	81.0	80.3	84.2	86.4	86.1	85.5	24	92.5	65.2	82.4
12/31/07	88.2	94.1	91.7	92.0	93.8	94.2	94.2	93.1	92.2	89.3	84.8	80.2	80.3	80.6	74.2	78.6	81.5	81.2	80.3	80.0	81.0	82.8	85.0	84.3	24	94.2	74.2	85.7
hr max	96.7	97.0	97.0	96.1	95.2	95.5	95.6	94.7	95.1	94.4	94.5	94.9	94.9	94.8	94.4	94.3	94.3	94.2	95.2	95.2	94.6	96.1	95.9	96.6				
hr min	54.1	53.5	56.3	66.3	69.2	68.8	69.0	70.7	70.8	61.7	39.5	37.8	32.3	37.4	51.0	53.1	62.1	66.4	65.9	67.2	68.3	69.9	72.6	74.2				
average	85.8	85.6	85.2	85.1	86.1	86.8	86.9	86.7	86.0	83.4	79.8	76.7	73.6	72.1	71.3	72.6	76.7	81.6	83.7	84.5	85.1	86.1	86.6	86.8				

monthly	monthly	monthly
max hr	min hr	ave hr
97.0	32.3	82.3
12/15/07	12/18/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
December-07
in
Prcp

data channel in

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr		daily total
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
12/1/07	0	0	0	0	0	0	0.03	0.02	0.01	0	0.02	0.01	0	0	0	0.01	0.01	0.01	0	0.01	0	0	0	0	24	0.03		0.13
12/2/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/3/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/4/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/5/07	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.01	0	23	0.01		0.01
12/6/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/7/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/8/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/9/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/10/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/11/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/12/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/13/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/14/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/15/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/16/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/17/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/18/07	0	0	0	0	0	0	0	0	0			0	0		0	0		0	0	0	0	0	0	0	20	0.00		0.00
12/19/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/20/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/21/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/22/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/23/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/24/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/25/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/26/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/27/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/28/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/29/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/30/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
12/31/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
hr max	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.01	0.00	0.02	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.01	0.00				
hr min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.01	0.00	0.02	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.01	0.00				

monthly max hr	monthly 24h max	monthly TOTAL
0.03	0.13	0.14
12/1/07	12/1/07	

Validated by: Roger L Thompson Date: 1/3/08
Analyst: Denise Hazelman Date: 1/3/08

valid hours	739
possible hours	744
data capture	99.3%

Appendix E

ARS Audit Report

Air Resource Specialists, Inc.

1901 Sharp Point Drive
Suite E
Fort Collins, Colorado 80525
970-484-7941
FAX: 970-484-3423

January 21, 2008

Vince Scheetz
ENSR
1601 Prospect Parkway
Fort Collins, CO 80525

RE: Air Quality and Meteorology Audit Report Entitled:
Audit Report for Basin NextGen Project
Gettysburg, South Dakota, Fourth Quarter 2007

Dear Vince:

Enclosed for your use are two bound copies and one unbound copy of the above referenced report.

Air Resource Specialists, Inc. appreciates this opportunity to assist ENSR with independent quality assurance audit services. Please contact me if you have any questions or need any additional information.

Sincerely,

Martin H. Valvur
Project Manager

MHV/jg
Enclosures

AUDIT REPORT

FOR

BASIN NEXTGEN PROJECT
GETTYSBURG, SOUTH DAKOTA
FOURTH QUARTER 2007

Prepared for

ENSR
1601 Prospect Parkway
Fort Collins, Colorado 80525

Prepared by

AIR RESOURCE SPECIALISTS, INC.
1901 Sharp Point Drive, Suite E
Fort Collins, Colorado 80525
Telephone: 970-484-7941
Fax: 970-484-3423

January 18, 2008

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1.0 AUDIT SUMMARY

ENSR is operating an ambient air quality and meteorological monitoring station for the Basin NextGen Project, approximately five (5) miles east of Gettysburg, South Dakota. The monitoring program has been designed to fulfill specific regulatory requirements that relate to the Environmental Protection Agency's (EPA) Prevention of Significant Deterioration (PSD) Program. Specific objectives of the ambient air quality and meteorological monitoring program are to:

- Fulfill pre-construction air monitoring required under PSD permitting rules,
- Obtain baseline data on the present ambient air conditions, and
- Provide a comprehensive on-site database for use in dispersion modeling using ISCST3, AERMOD, and CALPUFF.

To meet these objectives, ENSR has installed an ambient air quality monitoring station and an instrumented 100-meter meteorological tower.

Air Resources Specialists, Inc. (ARS) conducted a performance audit of the monitoring systems on December 18, 2007. Guidance from the following EPA documents was used to establish the audit procedures:

- 40 CFR 58, Appendix A. *Quality Assurance Requirements for SLAMS, SPMs, and PSD Air Monitoring*
- EPA *Quality Assurance Handbook for Air Pollution Measurement Systems:*
  - *Volume I. Principles*
  - *Volume II. Ambient Air Specific Methods*
  - *Volume IV. Meteorological Measurements*
- EPA *Meteorological Monitoring Guidance for Regulatory Modeling Applications*
- EPA *Transfer Standards for Calibration of Air Monitoring Analyzers for Ozone*
- NDEP *Bureau of Air Pollution Control, Ambient Air Quality Monitoring Standards*

At the time of the audit, all of gaseous analyzers, PM_{10} samplers, and meteorological parameters were operating within EPA and project accuracy goals.

Ambient air quality audit results are summarized by parameter in Table 1-1, while meteorological results are summarized by parameter in Table 1-2.

The monitoring site specifications, as measured by ARS' global positioning system (GPS) and parameters audited are:

- Elevation: 2,050 feet MSL
- Latitude: 45° 02' 37" N
- Longitude: 99° 50' 13" W
- UTM 4988136 N
- UTM 565914 E

Ambient air quality instruments audited were:

- Ozone (O_3) Analyzer
- Sulfur Dioxide (SO_2) Analyzer
- Oxides of Nitrogen (NO, NO_2, and NO_X) Analyzer
- In-Station Calibrator
- Inhalable Particulate (PM_{10}) Sampler (2)

Meteorological parameters audited were:

- 100 meters:
  - Wind speed
  - Wind direction
  - Vertical wind speed
  - Temperature
- 50 meters:
  - Wind speed
  - Wind direction
  - Vertical wind speed
  - Temperature
- 10 meters:
  - Wind speed
  - Wind direction
  - Vertical wind speed
  - Temperature
- 2 meters:
  - Temperature
  - Relative humidity
- Solar radiation
- Precipitation
- Barometric pressure

Table 1-1

Summary of Ambient Air Quality Audit Results

Parameter	Instrument/Analyzer	Within Accuracy Goal
Gaseous Samplers		
O_3	TEI* 49i Analyzer	Yes
SO_2	TEI 43i Analyzer	Yes
NO, NO_2, NO_x	TEI 42i Analyzer	Yes
Particulate Samplers		
PM_{10}	Tisch (PM_{10} #1)	Yes
PM_{10}	Tisch (PM_{10} #2)	Yes

*Thermo Environmental Instruments, Inc.

Table 1-2

Summary of Meteorological Audit Results

Parameter	Instrument/Sensor	Within Accuracy Goal
100-Meter Level		
Wind Speed	Climatronics F460	Yes
Wind Direction	Climatronics F460	Yes
Vertical Wind Speed	Climatronics 102236	Yes
Temperature	Climatronics 100093	Yes
50-Meter Level		
Wind Speed	Climatronics F460	Yes
Wind Direction	Climatronics F460	Yes
Vertical Wind Speed	Climatronics 102236	Yes
Temperature	Climatronics 100093	Yes
10-Meter Level		
Wind Speed	Climatronics F460	Yes
Wind Direction	Climatronics F460	Yes
Vertical Wind Speed	Climatronics 102236	Yes
Temperature	Climatronics 100093	Yes
2-Meter Level		
Temperature	Climatronics 100093	Yes
Other		
Relative Humidity	Rotronics HMD 35	Yes
Solar Radiation	Eppley 8-48	Yes
Precipitation	Texas Electronics TR525-1	Yes
Barometric Pressure	Climatronics 101448	Yes

Details of the audit are presented in the following sections:

Section 2.0	Audit Methods
Section 3.0	Audit Equipment
Section 4.0	Audit Results
Appendix A	Audit Data Forms
Appendix B	Relevant Formulae for Computing NO_2 Input Concentration
Appendix C	Audit Standards Certifications

Any questions related to this audit or audit report should be addressed to:

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2.0 AUDIT METHODS

Audit procedures, audit challenge ranges, and acceptance criteria are described below. These ranges and limits conform to EPA's PSD guidelines. Audit results were verbally communicated to the site operator and the ENSR Project Manager prior to departure from the site. Audit data forms are provided in Appendix A.

2.1 GASEOUS ANALYZERS (O_3, SO_2, AND NO_x)

Audit challenge ranges and acceptance criteria for the ambient gas analyzers are presented in Table 2-1. Audits were conducted by using an ozone primary standard and a gas dilution/gas phase titration system. These systems introduced a reference zero and three (3) test atmospheres to the individual gas analyzers through the normal sampling system, including the sample intake manifold, filters, and scrubbers.

The percent difference between the actual concentration of the audit test gas and the concentration indicated by the analyzer was used to determine if the analyzer was operating within specified limits. Analyzers whose readings at any point differed from the test atmosphere by more than ±15% were considered out of tolerance.

Test atmospheres for the ozone analyzer and the on-site ozone transfer standard were generated using an ozone primary standard (TEI 49C). Test atmospheres for the gaseous SO_2 and NO_x analyzers were generated using the ARS gas dilution/gas phase titration system, zero air supply, and EPA protocol reference gases. The formulae for completing NO_2 input concentrations are provided in Appendix B.

Table 2-1

Gaseous Analyzers
Audit Challenge Ranges and Acceptance Criteria

Parameter	Audit Concentration Ranges (ppm)					Acceptance Criteria
	Level 1	Level 2	Level 3	Level 4	Level 5	
O_3	0.02-0.05	0.06-0.08	0.15-0.20	0.36-0.45	n/a	±7% or ±7 ppb for any point
SO_2	0.003-0.005	0.006-0.01	0.03-0.08	0.15-0.20	0.36-0.40	±15% or ±15 ppb for any point
$NO/NO_2/NO_X$	0.003-0.005	0.03-0.08	0.15-0.20	0.35-0.45	n/a	±15% or ±15 ppb for any point

2.1.1 In-Station Standards Comparisons

In addition to conducting audits of the gaseous analyzers, ARS also conducted a comparison of the in-station calibration standards. The in-station calibration standards consisted of a TEI 146 gas dilution system and a TEI 49C ozone transfer standard. Standards comparisons are not required in the regulatory guidelines; however, ARS has found this to be a useful evaluation tool in cases where analyzers are operating outside of project accuracy goals.

2.2 PARTICULATE SAMPLERS

The volumetric flow controlled PM_{10} particulate samplers were audited in their normal operating mode with a particulate filter installed. ARS audited the samplers with a fixed flow audit orifice. The observed flow of the sampler, based on its most recent calibration, was compared to the observed flow of the ARS audit orifice. The audit value is represented by the percent difference between the two flows. Differences between the sampler and audit flows greater than ±10% are considered out of tolerance. To ensure that the addition of the audit orifice to the sampler did not adversely affect the sampler flow, an additional sampler flow rate, with the particulate filter in place and the audit orifice removed, was performed. This design flow rate of the PM_{10} samplers was compared to the actual flow rate and reported as the percent difference. Values greater than ±10% are considered out of tolerance. Audit methods and acceptable criteria for the particulate samplers are summarized in Table 2-2.

Table 2-2

Particulate Samplers
Audit Methods and Acceptance Criteria

Parameter	Audit Method	Acceptance Criteria
PM_{10} filter sampler	Audit orifice flow to actual sampler flow.	±10%
(EPA Reference Method)	Design criteria flow to actual sampler flow.	±10%

2.3 METEOROLOGICAL PARAMETERS

Meteorological measurement systems were audited in accordance with the EPA's *Quality Assurance Handbook for Air Pollution Measurement Systems: Volume IV – Meteorological Measurements*, (March 1995). Accuracy goals for the meteorological parameters were obtained from the EPA's *On-Site Meteorological Program Guidance for Regulatory Modeling Applications*. ARS used National Institute of Standards and Technologies (NIST) traceable test equipment for all meteorological parameters. Audit ranges and acceptable criteria for each parameter are summarized in Table 2-3. Meteorological audit procedures are as follows:

Table 2-3

Meteorological Sensors
Audit Ranges and Acceptance Criteria

Sensor	Parameter	Audit Challenge Ranges	Acceptance Criteria
Wind Speed (Horizontal and Vertical)	• Speed Accuracy	Three RPM Values	0.447 mph + 5% of Observed
	• Starting Threshold	Starting Torque	≤0.2 gm-cm (horizontal) ≤2.0 gm-cm (vertical)
Wind Direction	• Orientation Accuracy	To and From Two Landmarks	±5° in Any Direction
	• Response Threshold	Starting Torque	≤7.0 gm-cm
Temperature and Temperature Difference	• Accuracy and Linearity	Three Temperature Baths: 0°C, Near Ambient, and Near Full-Scale	Temperature ±0.5°C Δ Temperature ±0.1°C
Relative Humidity	• Accuracy	Compared to Ambient	Relative Humidity ±10%
Solar Radiation	• Accuracy	Three collocated readings	±5° of Observed, ±25 w/m^2 which ever is greater
Precipitation	• Accuracy	Compared to Three Known Amounts of Introduced Water	±10% of Observed
	• Tip Response	Manual Tips	One contact closure per tip
Barometric Pressure	• Accuracy	Compared to Ambient	±3 mb

Wind Speed – Dynamic tests of the horizontal wind speed sensors were performed using an R. M. Young model 18810 pulsed motor wind speed calibrator. Each sensor was tested at zero plus three (3) shaft revolution speeds (300, 900, and 1500 rpm). The equivalent wind speed was calculated corresponding to the manufacturer's specified values for shaft rpm versus wind velocity and compared to readings obtained from the on-site datalogger and backup strip chart recorder. A bearing integrity check was also performed using an R. M. Young torque wheel.

Wind Direction – Wind direction sensor audits included the verification of sensor orientation, linearity, and bearing integrity. ARS determined the orientation of the wind sensor crossarm. Accuracy of the crossarm was determined by use of a Brunton compass mounted on a tripod and knowledge of the site location in terms of latitude and longitude. A computer program was used to establish the declination of the site.

Potentiometer linearity was tested by verifying the accuracy of the measured wind direction towards and away from the crossarm in the four (4) cardinal directions. If the checks are within ±5 degree accuracy, the linearity is also valid.

In addition to the sensor orientation and linearity checks, the sensor bearings were tested using an R. M. Young torque wheel.

Vertical Wind Speed – Vertical wind speed was audited by first obtaining a zero response. The sensors were then challenged using an R. M. Young Model 18810 pulsed motor wind speed calibrator. The pulsed motor was used to rotate the sensor shafts at 300 and 900 rpm in both the clockwise (cw) and counter-clockwise (ccw) directions. Values observed were compared to the manufacturer's specifications to verify sensor accuracy.

Temperature and Temperature Difference – Each temperature sensor was audited by immersion in three (3) temperature baths with NIST-traceable thermometers. The temperature tests were performed at 0°C, ambient (approximately 25°C), and as near to full-scale as possible. Bath temperature readings obtained with the NIST-traceable thermometer were compared to the on-site datalogger. Temperature differences (ΔT) systems were assessed by simultaneously immersing both sensors in each of the three baths and noting the measured temperature difference between sensors. Data observed on the datalogger were used to assess the accuracy and linearity of each sensor.

Relative Humidity – The relative humidity monitoring system performance audit was conducted using a hand-held reference relative humidity measurement system to obtain the ambient relative humidity value. The observation was taken as near as possible to the on-site sensor. Relative humidity data observed on the on-site datalogger and strip chart recorder were compared to the reference readings.

Solar Radiation – The solar radiation sensor was audited by collocating an Eppley model PSP certified reference sensor next to the station sensor. Three (3) instantaneous comparisons were conducted. Readings from the audit standard and on-site dataloggers were arithmetically averaged, converted to proper engineering units (watts per meter square), and compared to establish sensor accuracy.

Precipitation – The tipping bucket precipitation gauge was audited by using a volumetric precipitation gauge calibrator and transferring a known amount of water through the gauge orifice at a rate equivalent to 2.0 inches/hour of precipitation. The gauge was challenged twice with water equivalents of approximately 1.0 inch of precipitation (100 tips of the sensor). The tip response of the on-site datalogger was verified, and the total datalogger values were compared to the actual introduced volumes.

Barometric Pressure – Barometric pressure was audited by side-by-side comparison to a portable barometric pressure standard (AIR-HB-1A).

3.0 AUDIT EQUIPMENT

Audits of all criteria pollutant gaseous analyzers were conducted using EPA protocol reference gases. All audit equipment and reference standards were in current calibration and traceable to the NIST or other authoritative references. The nitric oxide (NO) and sulfur dioxide (SO_2) reference gases were traceable to EPA standard reference materials. Table 3-1 lists the specific audit equipment used and certification dates. Copies of standards certifications for the equipment used in the audit are provided in Appendix C.

Table 3-1

Audit Equipment

References	Manufacturer	Model Number	Serial Number	Recertification Date
O_3	TEI	49C	401504-581	2/6/2008
Gas Dilution*	ERT	Gas Cal 82	1229G	2/6/2008
SO_2 (29.35 ppm)	Scott Marrin	--	JJ686	11/16/2008
NO (30.8 ppm)	--	--	JJ686	11/16/2008
Zero Air Source	ARS	Portable	002	N/A
High Vol Cal Orifice	Graseby	G28	C368	1/04/2008
Digital Voltmeter	Fluke	8060A	4735610	1/15/2008
Wind Speed	R.M. Young	18810	21181	1/18/2008
Bearing Torque	R.M. Young	18312	N/A	N/A
Temperature	Alpha Technics	4600	101610	1/08/2008
Relative Humidity	Rotronics	Hygroclip	95915	1/22/2008
Solar Radiation	Eppley	PSP	29387F3	1/09/2008

*The Gas Dilution system contains various components that have their own individual serial numbers. The serial number referenced here is for the system as a whole.

4.0 AUDIT RESULTS

Detailed Basin NextGen Project monitoring system audit results of continuous gaseous analyzers and particulate samplers are provided in Tables 4-1 and 4-2, respectively. The standards comparison is shown on Table 4-3. Detailed audit results of meteorological parameters are provided in Tables 4-4 through 4-6. Audit findings and recommendations are discussed below.

4.1 AUDIT FINDINGS

Performance Audit Results

- None.

System Audit Results

- None.

Table 4-1
Summary of Audit Findings
Continuous Gaseous Parameters
Basin NextGen Project
Gettysburg, South Dakota
December 18, 2007

Parameter	Manufacturer	Instrument Serial No.	Designated Audit Value	DAS Observed	ppm Difference	Accuracy Goal (±) * (± ppm)	Percent Difference (± 15%)	Within Accuracy Goal
Ozone - Parts Per Million								
Analyzer	TEI	0517812012	0.000	-0.003	-0.003	0.007	NA	NA
			0.450	0.447	-0.003	0.032	-0.7	Y
Slope = 0.995917	Correlation = 0.999974		0.206	0.202	-0.004	0.014	-1.9	Y
Intercept = -0.001655	Mean % = -1.25		0.087	0.086	-0.001	0.007	-1.1	Y
			0.043	0.041	-0.002	0.007	-4.7	Y
Sulfur Dioxide - Parts Per Million								
SO_2	TEI	29727-236	0.000	-0.002	-0.002	0.015	NA	NA
			0.438	0.446	0.008	0.066	1.7	Y
Slope =1.023432	Correlation =0.999991		0.195	0.196	0.001	0.029	0.4	Y
Intercept =-0.002971	Mean % =0.6		0.088	0.088	0.000	0.015	-0.3	Y
			0.000	0.000	0.000	0.015	NA	NA
			0.000	0.000	0.000	0.015	NA	NA
Oxides of Nitrogen - Parts Per Million								
NO	TEI	70181-365	0.000	0.000	0.000	0.015	0.000	Y
			0.450	0.434	-0.016	0.068	-3.5	Y
Slope =0.965946	Correlation =0.999958		0.200	0.196	-0.004	0.030	-2.2	Y
Intercept = 0.000135	Mean =-3.6		0.090	0.085	-0.005	0.015	-5.2	Y
			0.000	0.000	0.000	0.015	NA	NA
NO_x	TEI	70181-365	0.000	0.001	0.001	0.015	NA	NA
			0.450	0.438	-0.012	0.068	-2.8	Y
Slope =0.972449	Correlation =0.999978		0.200	0.197	-0.003	0.030	-1.7	Y
Intercept = 0.000394	Mean =-2.8		0.090	0.087	-0.003	0.015	-3.8	Y
			0.000	0.000	0.000	0.015	NA	NA
NO_2	TEI	70181-365	0.000	-0.00456	-0.005	0.015	NA	NA
			0.391	0.378	-0.013	0.059	-3.4	Y
Slope =0.979831	Correlation =0.999966		0.179	0.171	-0.008	0.027	-4.5	Y
Intercept = -0.005454	Mean =-9.5		0.098	0.089	-0.009	0.015	-9.5	Y
Converter Efficiency =	101.7%		0.253	0.236	-0.017	0.038	-6.6	Y

* Continuous analyzer accuracy goals are +/- 10.0% of observed. Accuracy goals were taken from 40 CFR, Part 58, Appendix B, Quality Assurance Requirements for Prevention of Significant Deteriorations (PSD) Air Monitoring. All units are in parts per million (ppm).

Table 4-2
Summary of Audit Findings
Particulate Parameters
Basin NextGen Project
Gettysburg, South Dakota
December 18, 2007

Parameter	Manufacturer	Instrument Serial No.	Designated Audit Value	Observed		Accuracy Goal (±) * (+ 10%)	Percent Difference	Within Accuracy Goal
Particulates - Flow ft.^{3}/min.								
PM_{10} Sampler # 1	Graseby	985						
		Audit Flows	38.8	37.7		10.0	-2.8	Y
		Design Flow	40.0	39.3		10.0	-1.4	Y
Particulates - Flow ft.^{3}/min.								
PM_{10} Sampler # 2	Graseby	986						
		Audit Flows	39.0	38.0		10.0	-2.5	Y
		Design Flow	40.0	39.4		10.0	-1.2	Y

* PM_{10} sampler accuracy goals are ± 10.0% of observed audit flow, and ± 10.0% of design flow. Accuracy goals were taken from 40 CFR, Part 58, Appendix B, "Quality Assurance Requirements for Prevention of Significant Deterioration (PSD) Air Monitoring."
All units are in cubic feet per minute (CFM).

Table 4-3
Summary of Audit Findings
Standards Comparisons
Basin NextGen Project
Gettysburg, South Dakota
December 18, 2007

Parameter	Manufacturer	Instrument Serial No.	Designated Audit Value	DAS Audit (ppm)		DAS In-Station (ppm)	Percent Difference (+ 15%)	Within Accuracy Goal
NO	API	482	0.000	0.000		0.001	NA	N/A
			0.450	0.434		0.428	-1.4	Y
			0.090	0.085		0.083	-2.4	Y
SO_2	API	482	0.000	-0.002		0.001	NA	N/A
			0.438	0.446		0.438	-1.8	Y
			0.088	0.088		0.088	0.0	Y

Table 4-4
Summary of Audit Findings
Meteorological Parameters
(Wind Speed, Wind Direction)
Basin NextGen Project
Gettysburg, South Dakota
December 18, 2007

Parameter	Manufacturer	Instrument Serial No.	Designated Audit Value	DAS Observed	Accuracy Goal (±) *	Deviation From Standard	Within Accuracy Goal
Wind Speed (100m) - Meters Per Second							
0 RPM	Climatronics	2915	0.2	0.2	0.5	0.0	Y
300 RPM			16.1	16.1	1.3	0.0	Y
900 RPM			47.3	47.6	2.9	0.3	Y
1500 RPM			78.5	79.1	4.5	0.6	Y
Wind Speed (50m) - Meters Per Second							
0 RPM	Climatronics	2920	0.2	0.30	0.5	0.1	Y
300 RPM			16.1	16.07	1.3	0.0	Y
900 RPM			47.3	47.61	2.9	0.3	Y
1500 RPM			78.5	79.10	4.5	0.6	Y
Wind Speed (10m) - Meters Per Second							
0 RPM	Climatronics	2911	0.2	0.30	0.5	0.1	Y
300 RPM			16.1	16.07	1.3	0.0	Y
900 RPM			47.3	47.60	2.9	0.3	Y
1500 RPM			78.5	79.15	4.5	0.7	Y
Vertical Wind Speed (100m) - Meters Per Second							
0	R.M. Young	295	0.00	0	0.2	0.00	Y
300 RPM CW			1.88	1.89	0.29	0.01	Y
300 RPM CCW			-1.88	-1.91	-0.3	-0.03	Y
900 RPM CW			5.63	5.68	0.48	0.05	Y
900 RPM CCW			-5.63	-5.67	-0.48	-0.04	Y
Vertical Wind Speed (50m) - Meters Per Second							
0	R.M. Young	296	0.00	0.02	0.2	0.02	Y
300 RPM CW			1.88	1.9	0.3	0.02	Y
300 RPM CCW			-1.88	-1.89	-0.29	-0.01	Y
900 RPM CW			5.63	5.7	0.49	0.08	Y
900 RPM CCW			-5.63	-5.68	-0.48	-0.05	Y
Vertical Wind Speed (10m) - Meters Per Second							
0	R.M. Young	297	0.00	0.13	0.2	0.13	Y
300 RPM CW			1.88	2.01	0.3	0.14	Y
300 RPM CCW			-1.88	-1.79	-0.29	0.09	Y
900 RPM CW			5.63	5.74	0.49	0.12	Y
900 RPM CCW			-5.63	-5.65	-0.48	-0.03	Y
Wind Direction (100m) - Degrees True							
To Mark 1	Climatronics	2925	185	187	5	1.5	Y
From Mark 1			5	6	5	0.7	Y
To Mark 2			254	256	5	2.0	Y
From Mark 2			74	76	5	2.0	Y
Wind Direction (50m) - Degrees True							
To Mark 1	Climatronics	2936	185	184	5	-1.3	Y
From Mark 1			5	3	5	-1.6	Y
To Mark 2			254	255	5	1.0	Y
From Mark 2			74	72	5	-1.7	Y
Wind Direction (10m) - Degrees True							
To Mark 1	Climatronics	2931	185	185	5	0.0	Y
From Mark 1			5	4	5	-1.3	Y
To Mark 2			254	256	5	2.0	Y
From Mark 2			74	73	5	-0.9	Y

* All meteorological monitoring system accuracy goals were taken from the EPA's "Meteorological Monitoring Guidance for Regulatory Modeling Applications, February 2000, EPA-454/R-99-005."

Table 4-5
Summary of Audit Findings
Meteorological Parameters
(Delta Temperature, Temperature, Relative Humidity,
Solar Radiation, Precipitation, Barometric Pressure)
Basin NextGen Project
Gettysburg, South Dakota
December 18, 2007

Parameter	Manufacturer	Instrument Serial No.	Designated Audit Value	DAS Observed	Accuracy Goal (±) *	Deviation From Standard	Within Accuracy Goal
Delta Temperature (100m - 50m)							
Ice Bath	Climatronics	4947-4945	0.00	0.00	0.1	0.00	Y
Ambient Bath			0.00	-0.04	0.1	-0.04	Y
Hot Bath			0.00	-0.07	0.1	-0.07	Y
Delta Temperature (50m - 2m)							
Ice Bath	Climatronics	4943-4945	0.00	-0.03	0.1	-0.03	Y
Ambient Bath			0.00	0.01	0.1	0.01	Y
Hot Bath			0.00	0.05	0.1	0.05	Y
Delta Temperature (10m - 2m)							
Ice Bath	Climatronics	4948-4945	0.00	0.01	0.1	0.01	Y
Ambient Bath			0.00	0.00	0.1	0.00	Y
Hot Bath			0.00	0.00	0.1	0.00	Y
Temperature (2m)							
Ice Bath	Climatronics	4945	0.0	0.07	0.5	0.07	Y
Ambient Bath			24.6	24.46	0.5	-0.15	Y
Hot Bath			49.6	49.32	0.5	-0.25	Y
Relative Humidity							
Average	Rotronics		31.97	35.38	10	3.41	Y
Solar Radiation							
Average	Eppley		316.9	316.7	-0.1	-0.19	Y
Precipitation							
Average	Climatronics		0.52	0.47	0.05	-0.05	Y
Barometric Pressure							
Average	Climatronics		699.5	698.8	3.0	-0.70	Y

* All meteorological monitoring system accuracy goals were taken from the EPA's "Meteorological Monitoring Guidance for Regulatory Modeling Applications, February 2000, EPA-454/R-99-005."

Table 4-6
Summary of Audit Findings
Wind Sensor Torque Values
Basin NextGen Project
Gettysburg, South Dakota
December 18, 2007

Sensor	Maximum Torque*	Audit Value	Accuracy Goal	Within Accuracy Goal
100 Meter Level				
Horizontal Wind Speed	0.2 gm-cn	0.2	0.2	Y
Vertical Wind Speed	1.0 gm-cm	0.2	1.0	Y
Wind Direction	7.0 gm-cm	2.0	7.0	Y
50 Meter Level				
Horizontal Wind Speed	0.2 gm-cn	0.2	0.2	Y
Vertical Wind Speed	1.0 gm-cm	0.3	1.0	Y
Wind Direction	7.0 gm-cm	2.0	7.0	Y
10 Meter Level				
Horizontal Wind Speed	0.2 gm-cn	0.2	0.2	Y
Vertical Wind Speed	1.0 gm-cm	0.2	1.0	Y
Wind Direction	7.0 gm-cm	2.0	7.0	Y

* Torque accuracy goals were obtained from the sensor manufacturers specifications

APPENDIX A

AUDIT DATA FORMS

Air Resource Specialists, Inc.

OZONE AUDIT

Date: 12/18/2007 Network: NextGen Site: Basin NextGen Project Auditor: M. H. Valvur

Site Analyzer Mfg: TEI Model: 49c S/N: 0517812012 Last Certification Date: 12/5/2007

Site Reference Mfg: TEI Model: 49 TS S/N: 33799-246 Last Certification Date: 12/5/2007

Audit O3 Mfg: TECO Model: 49C S/N: 401504-581 Recalibration Date: 2/6/08

Frequency A: 83625 Frequency B: 82450 A Flow: 0.665 B Flow: 0.625

Zero Air Mfg: In-Station Model: N/A S/N: N/A Maintenance Due Date: N/A

AUDIT REFERENCE		STATION ANALYZER			STATION REFERENCE		
Audit Point	Input Conc. (ppm)	DAS Reading	Recorder Reading	%Difference Ref.vs.Analyzer	DAS Reading	Recorder Reading	%Difference Ref.vs.SiteRef.
Zero	0.000	-0.003	0.0	**NA**	-0.004	N/A	**N/A**
1	0.450	0.447	86.0	**-0.7**	0.448	N/A	**-0.4**
2	0.206	0.202	42.0	**-1.9**	0.207	N/A	**0.5**
3	0.087	0.086	14.0	**-1.1**	0.087	N/A	**0.5**
4	0.043	0.041		**-4.7**	0.042	N/A	**-2.1**

STATION REFERENCE CHECK					
Station Reference			Station Analyzer		
Cal. Point	Display Reading	Recorder Reading	DAS Reading	Recorder Reading	% Difference Ref. vs Analyzer
1					
2					
3					
4					

LINEAR REGRESSION*			
Station Analyzer		Station Reference	
Slope	**0.995917**	Slope	**0.992545**
Intercept	**-0.001655**	Intercept	**0.001646**
Correlation	**0.999974**	Correlation	**0.999991**
Average % Difference	**-1.3**	Average % Difference	**0.2**

REMARKS:

*Regression results are calculated from audit points zero, 1, 2, and 3.

Signature: Mark H Valvur

GAS DILUTION AUDIT

SO_2

Date: 12/18/2007 Network: NextGen Site: Basin NextGen Project Auditor: M. H. Valvur

Instrument: TECO Model: 43A S/N: 29727-236 Last Certification Date: 12/5/2007

Dilution System Mfg: ERT S/N: 1229G Recalibration Date: 2/6/2008

Z Air Mod: ARS S/N: N/A Recalibration Date: N/A

Cylinder S/N: JJ686 Concentration (ppm): 29.35 Recalibration Date: 11/16/2008

Dilution System Linear Regression Results			
MFC	Corre. (r)	Slope (m)	Intcpt (b)
Zair	0.999932	0.000485	-0.040747
Gas 1	0.999929	0.049748	0.057358
Gas 2			

Audit Point	Input Conc. ppm	Flow Meter Settings		Calculated Flows		Observed SO2		
		Z Air	Gas	Z Air cc/m	Gas cc/m	DAS	Recorder	% Diff.
Zero	0.000	2.384	0.000	5000.00	0.00	-0.002	0.0	**NA**
1	0.438	2.384	3.826	5000.00	75.75	0.446	94.0	**1.7**
2	0.195	2.384	1.721	5000.00	33.44	0.196	36.0	**0.4**
3	0.088	3.354	1.105	7000.00	21.05	0.088	16.0	**-0.3**
4		3.936	0.057	8200.00	0.00		8.0	**NA**
5								**NA**

Linear Regression Results*	
Slope (m)	**1.023432**
Intercept (b)	**-0.002971**
Correlation (r)	**0.999991**
Average % difference	**0.6**

* Regression results are calculated from audit points zero, 1, 2, and 3.

Station Reference Check

Point	(ppm)	Audit	In-Station	Ref. vs. Analyzer
1	0.000	-0.002	0.001	**NA**
2	0.438	0.446	0.438	**-1.8**
3	0.088	0.088	0.088	**0.0**

Concentration (ppm): 30.3

Recalibration Date: 3/8/2009

Remarks:

Signature:

GAS DILUTION AUDIT

$NO/NO_2/GPT$

Date: 12/18/2007 Network: NextGen Site: Basin NextGen Project Auditor: M. H. Valvur

Instrument: TECO Model: 42 S/N: 70181-365 Last Certification Date: 12/5/2007

Dilution System Mfg: ERT S/N: 1229G Recalibration Date: 2/6/2008

Z Air Mod: ARS S/N: N/A Recalibration Date: N/A

Cylinder S/N: JJ686 Concentration (ppm): 30.80 Recalibration Date: 11/16/2008

Dilution System Linear Regression Results			
MFC	Corre. (r)	Slope (m)	Intcpt (b)
Zair	0.999932	0.000485	-0.040747
Gas 1	0.999929	0.049748	0.057358
Gas 2			

NO Audit

Audit Point	Input Conc. ppm	Flow Meter Settings Z Air	Flow Meter Settings Gas	Calculated Flows Z Air cc/m	Calculated Flows Gas cc/m	Observed NO DAS	Observed NO Recorder	Observed NO % Diff.	Observed NOX DAS	Observed NOX Recorder	Observed NOX % Diff.	Observed NO_2 DAS	Observed NO_2 Recorder
Zero	0.000	2.384	0.000	5000.00	0.00	0.000	0.0%	NA	0.001	N/A	NA	0.000	N/A
1	0.450	2.384	3.745	5000.00	74.14	0.434	98	-3.5	0.438	97	-2.8	-0.004	0
2	0.200	2.384	1.683	5000.00	32.68	0.196	37	-2.2	0.197	38	-1.7	-0.001	0
3	0.090	2.384	0.786	5000.00	14.65	0.085	16	-5.2	0.087	16	-3.8	-0.001	0
4		3.839	0.580	8000.00	10.50		8	NA		8	NA		0

Gas Phase Titration

Audit Point	Input Conc. ppm	Flow Meter Settings Z Air	Flow Meter Settings Gas	Calculated Flows Z Air cc/m	Calculated Flows Gas cc/m	Observed NO DAS	Observed NO Recorder	Observed NO_X DAS	Observed NO_X Recorder	Observed NO_2 DAS	Observed NO_2 Recorder	Observed NO_2 % Difference
GPT Zero	0.000	2.384	3.745	5000.00	74.14	0.445	96	0.450	N/A	-0.005	N/A	NA
GPT 1	0.391	2.384	3.745	5000.00	74.14	0.067	24	0.445	96	0.378	N/A	-3.4
GPT 2	0.179	2.384	3.745	5000.00	74.14	0.272	66	0.442	96	0.171	N/A	-4.5
GPT 3	0.098	2.384	3.745	5000.00	74.14	0.350	78	0.439	96	0.089	N/A	-9.5
GPT 4	0.253	2.384	3.745	5000.00	74.14	0.201	N/A	0.437	N/A	0.236	N/A	-6.6

Linear Regression*

	NO	NO_x	NO_2 GPT
Slope	0.965946	0.972449	0.979831
Intercept	0.000135	0.00039	-0.00545
Correlation	0.999958	0.999978	0.999966
Ave. % Diff.	-3.6	-2.8	-9.5

Catalytic Converter Efficiency: 101.7%

Station Reference Check: Cyl. SN: JJ8896 Conc. 31.1 Recal Due 3/8/2009

Input Conc. ppm	DAS - NO Audit	DAS - NO In-Station	DAS - NO_X Audit	DAS - NO_X In-Station	DAS - NO_2 Audit	DAS - NO_2 In-Station	NO % difference Audit vs. In-Station
0.000	0.000	0.001	0.001	0.000	0.000	0.000	NA
0.450	0.434	0.428	0.438	0.426	-0.004	-0.001	-1.4
0.090	0.085	0.083	0.087	0.083	-0.001	0.001	-2.4

Remarks: * Regression results are calculated from audit points zero, 1, 2, and 3.

Signature:

VOLUMETRIC FLOW CONTROLLED SAMPLER AUDIT DATA SHEET
PM_{10}

Station Location: Basin NextGen Project Date: 12/17/07 Time: 16:59

Sampler Model: Tisch S/N: 985

Pa: 699.9 mm Hg. Ta: -3.1 °C 270.05 K

Sampler No. PM_{10} #1

Audit Orifice S/N: C368 Orifice Calibration Date: 1/4/2007

Orifice Calibration Relationship m = 1.1521 b = -0.010240 r = 0.999980

Sampler Calibration Relationship m = 11.1673 b = 0.214300 r = 0.999300

Orifice Pressure Drop (ΔH_2O): 4.09 in. H_2O Qa (audit)[a]: 1.10 m^3 / min, 38.82 ACFM

With Orifice Installed Without Orifice Installed

Sampler Pressure Drop (ΔH_2O): 22.19 in. H_2O 18.40 in. H_2O

Qa (Sampler)[b]: 1.069 m^3 / min, 37.75 ACFM 1.084 m^3 / min, 38.27 ACFM

Audit Flow Rate Percentage Difference[c]: -2.8 %

Qa (Corrected Sampler)[d]: 1.11 m^3 / min, 39.33 ACFM

Design Flow Rate Percentage Difference[e]: -1.44 %

[a] For calculation of audit orifice standard flow rates:

$$Qa\ (audit) = \{[\Delta(H_2O)\ (Ta / Pa)]^{1/2} - b\}\{1 / m\}$$

[b] For calculation of sampler flow rate:

$$Qa\ (Sampler) = \{[P1/Pa - b][Ta]^{1/2}\}\{1/m\}$$

[c] Audit % Difference = $\frac{[Qa\ (sampler) - Qa\ (orifice)]}{Qa\ (orifice)}$ [100} where Qa is measured with orifice installed.

[d] Qa (corrected sampler) = Qa (sampler) $\frac{[100 - audit\ \%\ Difference]}{100}$ where Qa (sampler) is measured without the orifice installed.

[e] Design Flow Rate % Difference = $\frac{[Qa\ (corrected\ sampler) - 1.13]}{1.13}$ [100]

Auditor: [signature] Observer: _____

VOLUMETRIC FLOW CONTROLLED SAMPLER AUDIT DATA SHEET
PM_{10}

Station Location: Basin NextGen Project Date: 12/17/07 Time: 17:05

Sampler Model: Tisch S/N: 986

Pa: 699.6 mm Hg. Ta: -3.1 °C 270.05 K

Sampler No. PM_{10} #2

Audit Orifice S/N: C368 Orifice Calibration Date: 1/4/2007

Orifice Calibration Relationship m = 1.1521 b = -0.010240 r = 0.999980

Sampler Calibration Relationship m = 9.8606 b = 0.296000 r = 0.999800

	With Orifice Installed	Without Orifice Installed
Orifice Pressure Drop (ΔH_2O)	4.12 in. H_2O	
Qa (audit)[a]		1.10 m^3 / min 38.97 ACFM
Sampler Pressure Drop (ΔH_2O)	21.87 in. H_2O	18.78 in. H_2O
Qa (Sampler)[b]	1.076 m^3 / min 37.99 ACFM	1.090 m^3 / min 38.48 ACFM

Audit Flow Rate Percentage Difference[c]: -2.5 %

Qa (Corrected Sampler)[d]: 1.12 m^3 / min, 39.44 ACFM

Design Flow Rate Percentage Difference[e]: -1.16 %

[a] For calculation of audit orifice standard flow rates:

$$Qa\ (audit) = \{[\Delta(H_2O)\ (Ta / Pa)]^{1/2} - b\}\ \{1 / m\}$$

[b] For calculation of sampler flow rate:

$$Qa\ (Sampler) = \{[P1/Pa - b][Ta]^{1/2}\}\ \{1/m\}$$

[c] Audit % Difference = $\frac{[Qa\ (sampler) - Qa\ (orifice)]}{Qa\ (orifice)}$ [100} where Qa is measured with orifice installed.

[d] Qa (corrected sampler) = Qa (sampler) $\frac{[100 - audit\ \%\ Difference]}{100}$ where Qa (sampler) is measured without the orifice installed.

[e] Design Flow Rate % Difference = $\frac{[Qa\ (corrected\ sampler) - 1.13]}{1.13}$ [100]

Auditor: [signature] Observer: _____

Basin NextGen Project
Meteorological Audit Results
100 METER LEVEL
December 18, 2007

Parameter/Test	Ideal Response	DAS Response	Delta Units
WIND SPEED - Meters Per Second			
0 RPM	0.2	0.2	0.0
300 RPM	16.1	16.1	0.0
900 RPM	47.3	47.6	0.3
1500 RPM	78.5	79.1	0.6
VERITCAL WIND SPEED - Meters Per Second			
0 RPM	0.00	0.00	0.00
300 RPM CW	1.88	1.89	0.01
300 RPM CCW	-1.88	-1.91	-0.03
900 RPM CW	5.63	5.68	0.05
900 RPM CCW	-5.63	-5.67	-0.04
WIND DIRECTION - Degrees True			
To Mark 1	185.0	186.5	1.5
From 1	5.0	5.7	0.7
To Mark 2	254.0	256.0	2.0
From 2	74.0	76.0	2.0
DELTA TEMPERATURE - Degrees Celsius (100 - 2)			
Ice Bath	0.00		0.00
Ambient Bath	0.00		0.00
Hot Bath	0.00		0.00

Wind Sensor Torques

Sensor	Maximum Response	Actual Response	Audit Units
Horizontal Wind Speed	0.2 gm-cm	0.2	0.2
Vertical Wind Speed	1.0 gm-cm	0.2	0.2
Wind Direction	7.0 gm-cm	2.0	2.0

Basin NextGen Project
Meteorological Audit Results
50 METER LEVEL
December 18, 2007

Parameter/Test	Ideal Response	DAS Response	Delta Units
WIND SPEED - Meters Per Second			
0 RPM	0.2	0.3	0.1
300 RPM	16.1	16.1	0.0
900 RPM	47.3	47.6	0.3
1500 RPM	78.5	79.1	0.6
VERTICAL WIND SPEED - Meters Per Second			
0 RPM	0.00	0.02	0.02
300 RPM CW	1.88	1.90	0.02
300 RPM CCW	-1.88	-1.89	-0.01
900 RPM CW	5.63	5.70	0.08
900 RPM CCW	-5.63	-5.68	-0.05
WIND DIRECTION - Degrees True			
To Mark 1	185.0	183.7	-1.3
From 1	5.0	3.4	-1.6
To Mark 2	254.0	255.0	1.0
From 2	74.0	72.3	-1.7
DELTA TEMPERATURE - Degrees Celsius (50 - 10)			
Ice Bath	0.00	-0.03	-0.03
Ambient Bath	0.00	0.01	0.01
Hot Bath	0.00	0.05	0.05

Wind Sensor Torques

Sensor	Maximum Response	Actual Response	Audit Units
Horizontal Wind Speed	0.2 gm-cm	0.2	0.2
Vertical Wind Speed	1.0 gm-cm	0.3	0.3
Wind Direction	7.0 gm-cm	2.0	2.0

Basin NextGen Project
Meteorological Audit Results
10 METER LEVEL
December 18, 2007

Parameter/Test	Ideal Response	DAS Response	Delta Units
WIND SPEED - Meters Per Second			
0 RPM	0.2	0.3	0.1
300 RPM	16.1	16.1	0.0
900 RPM	47.3	47.6	0.3
1500 RPM	78.5	79.2	0.7
VERTICAL WIND SPEED - Meters Per Second			
0 RPM	0.00	0.13	0.13
300 RPM CW	1.88	2.01	0.14
300 RPM CCW	-1.88	-1.79	0.09
900 RPM CW	5.63	5.74	0.12
900 RPM CCW	-5.63	-5.65	-0.03
WIND DIRECTION - Degrees True			
To Mark 1	185.0	185.0	0.0
From 1	5.0	3.8	-1.3
To Mark 2	254.0	256.0	2.0
From 2	74.0	73.1	-0.9
DELTA TEMPERATURE - Degrees Celsius (10 - 2)			
Ice Bath	0.00	0.01	0.01
Ambient Bath	0.00	0.00	0.00
Hot Bath	0.00	0.00	0.00

Wind Sensor Torques

Sensor	Maximum Response	Actual Response	Audit Units
Horizontal Wind Speed	0.2 gm-cm	0.2	0.2
Vertical Wind Speed	1.0 gm-cm	0.2	0.2
Wind Direction	7.0 gm-cm	2.0	2.0

Basin NextGen Project
Meteorological Audit Results
2 METER LEVEL
December 18, 2007

Parameter/Test	Ideal Response	DAS Response	Delta Units
TEMPERATURE - Degrees Celsius			
Ice Bath	0.0	0.1	0.1
Ambient Bath	24.6	24.5	-0.1
Hot Bath	49.6	49.3	-0.3
RELATIVE HUMIDITY - Percent			
Comparison 1	30.1	33.5	3.4
Comparison 2	29.4	32.6	3.2
Comparison 3	36.4	40.1	3.7
Average	32.0	35.4	3.4

Basin NextGen Project
Meteorological Audit Results
OTHER PARAMETERS
December 18, 2007

Parameter/Test	Ideal Response	DAS Response	Delta Units
SOLAR RADIATION - Watts Per Meter^2			
RUN 1	362.1	364.4	2.3
RUN 2	310.8	300.7	-10.2
RUN 3	277.7	285.0	7.3
Average	316.9	316.7	-0.2
PRECIPITATION - Inches			
Comparison 1	0.52	0.47	-0.05
Comparison 2			
Comparison 3			
Average	0.52	0.47	-0.05
BAROMETRIC PRESSURE - Millimeters of Mercury			
Comparison 1	699.5	698.8	-0.7
Comparison 2			
Comparison 3			
Average	699.5	698.8	-0.7

APPENDIX B

RELEVANT FORMULAE

FOR COMPUTING NO_2 INPUT CONCENTRATION

Equations used to compute $[NO_2]_{OUT}$ and the $NO_2 \rightarrow NO$ converter efficiency are:

Equation 1 $[NO_2]_{OUT}$

If $[NO_2]_{IMP} > 0$

$$[NO_2]_{OUT} = [NO]_{ORIG} - [NO]_{REM} + \frac{F_{NO} \times [NO_2]_{IMP}}{F_{NO} + F_O + F_D}$$

Equation 2 $[NO_2]_{OUT}$

If $[NO_2]_{IMP} = 0$

$$[NO_2]_{OUT} = [NO]_{ORIG} - [NO]_{REM}$$

Equation 3 $[NO_2]_{CONV}$

$$[NO_2]_{CONV} = [NO_2]_{OUT} - ([NO_x]_{ORIG} - [NO_x]_{REM})$$

Equation 4 **Converter Efficiency**

Based on the slope (b) of a linear regression analysis of
$[NO_2]_{CONV}$ (y-axis) versus $[NO_2]_{OUT}$ (x-axis)
Converter efficiency % = $NO_2(_{CONV})$ x slope x 100

Where F_{NO} = flow rate of NO standard
F_O = flow rate of air through O_3 generator
F_D = flow rate of dilution air
$[NO]_{ORIG}$ = concentration of NO before O_3 is added during GPT
$[NO]_{REM}$ = concentration of NO after O_3 is added during GPT
$[NO]_{CONV}$ = quantity of NO_2 converted to NO

$$[NO]_{OUT} = \frac{F_{NO} \times [NO]_{std}}{F_{NO} + F_O + F_D}$$

APPENDIX C

AUDIT STANDARDS CERTIFICATIONS

Air Resource Specialists, Inc.

LAB O_3 CALIBRATION FORM

Date 11/6/2007 **Client** ARS **Tech.** M H Valvur

DVM Manufacturer Fluke **Model** 8060A

Last Certification Date 01/15/2007 **Serial Number** 4735610

Z Air Make Werther ARS **Model** Lab

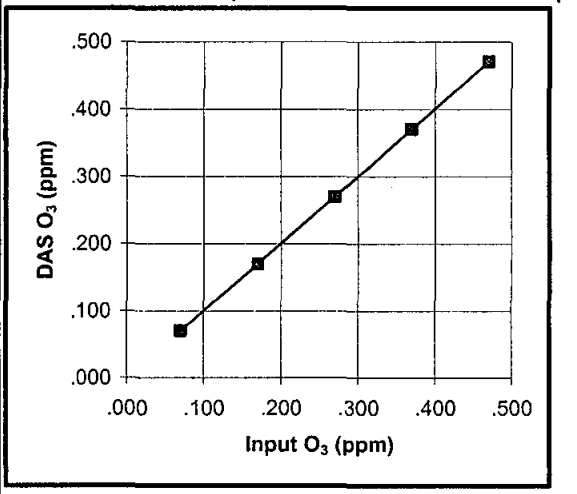
Serial Number 526280 N/A **Last Maintenance Date** 11/17/05

PRIMARY	
Last Cal. Date	9/6/2007
Manufacturer	TECO
Model	49C PS
Serial Number	75759-380
BKG / CO EFF	0 / 1.020
A Frequency	107508
B Frequency	101507
Flow	.588 / .547
Cell Temperature	34.5
Inst. Offset (ppm)	0

Instrument to be Calibrated	
Last Cal. Date	08/17/2007
Manufacturer	TECO
Model	49C
Serial Number	401504-581
BKG / CO EFF	0.2 / 1.036
A Frequency	81816
B Frequency	80990
Flow	.656 / .682
Cell Temperature	36.3
Inst. Offset (ppm)	.000

Input Conc. (ppm)	Display Reading (ppm)	Output Voltage VDC	DAS O3 (ppm)	Error in ppm	Error Delta Percent
.000	.000	.000	**.000**	.000	NA
.470	.463	.470	**.471**	.001	**00.2 %**
.370	.366	.370	**.371**	.001	**00.3%**
.270	.274	.270	**.270**	.000	**00.0%**
.170	.170	.170	**.170**	.000	**00.0%**
.070	.070	.070	**.070**	.000	**00.0%**
.000	.000	.000	**.000**	.000	NA

SLOPE	**1.002426**
INTERCEPT	**-0.000213**
CORRELATION	**0.999999**
AVERAGE DELTA%	**00.1 %**



Remarks

Signature

MFC/MFM Calibration Form

Date: 11/6/2007 Station: ARS Tech: M H Valvur

Mass Flow Device #1

Mfg: Brooks S/N: 90H1248/3 Range: 0 - 10 lpm

Primary Std. Mfg: BIOS Model: DC - 1HC S/N: H - 1809

Primary Standard Type (Bubble=1, Dry=0) 0 Last Calibration Date: 1/19/2007

Calibration Gas: Air Range: 50 ccm - 50 - lpm

Ambient Pressure (mmHg.)	Gas Temp. ° C	Gas Vapor Pressure (mmHg)	Corr. Factor	Flow ACCPM	Display Volts (Y)	Flow SCCPM (X)
643.2	21.8	.000	0.855500	9769.0	4.000	8357.4
643.2	22.2	.000	0.854340	8506.0	3.500	7267.0
643.2	22.3	.000	0.854050	7309.0	3.000	6242.3
643.2	22.4	.000	0.853760	6123.0	2.500	5227.6
643.2	22.5	.000	0.853480	4933.0	2.000	4210.2
643.2	22.5	.000	0.853480	3733.0	1.500	3186.0

Slope (m) = 0.000485 Intcp (b)= -0.040747 Corr (r)= 0.999932

Flow = (Display Voltage - b) / m Display Voltage = (Flow * m) + b

Mass Flow Device #2

Mfg: Brooks S/N: 90H12749/1 Range: 0 - 100 ccm

Primary Std. Mfg: MINI-Buck Model: M-5 S/N: M-3277B

Primary Standard Type (Bubble=1, Dry=0) 1 Last Calibration Date: 1/12/2007

Calibration Gas: Air Range: 1 - 6000 ccm

Ambient Pressure (mmHg.)	Gas Temp. ° C	Gas Vapor Pressure (mmHg)	Corr. Factor	Flow ACCPM	Display Volts (Y)	Flow SCCPM (X)
643.2	23.3	21.454	0.822780	108.00	4.500	88.9
643.2	21.9	19.707	0.829010	83.80	3.500	69.5
643.2	21.8	19.587	0.829450	59.80	2.500	49.6
643.2	21.5	19.231	0.830770	35.00	1.500	29.1
643.2	21.7	19.468	0.829890	22.70	1.000	18.8
643.2	22.4	20.316	0.826800	17.70	.800	14.6

Slope (m) = 0.049748 Intcp (b)= 0.057358 Corr (r)= 0.999929

Flow = (Display Voltage - b) / m Display Voltage = (Flow * m) + b

REMARKS:

Signature

SCOTT-MARRIN, INC.
6531 BOX SPRINGS BLVD. • RIVERSIDE, CA 92507
TELEPHONE (951) 653-6780 • FAX (951) 653-2430

REPORT OF ANALYSIS
EPA PROTOCOL GAS MIXTURES

AIRR01
TO: Air Resource Specialists Inc
Attn: Tara Porter
1901 Sharp Point Dr, Suite E
Fort Collins, CO 80525-4402
(970) 484-7941

DATE: December 1 2006

CUSTOMER ORDER NUMBER: A19425

COMPONENT	CONCENTRATION(v/v) ± EPA UNCERTAINTY	REFERENCE STANDARD	ANALYZER MAKE, MODEL, S/N, DETECTION	EXPIRATION DATE	REPLICATE ANALYSIS DATA
CYLINDER NO:	JJ686				
			CARLE INST MODEL 8000		11/16/06
Carbon monoxide	3030 ± 30 ppm	GMIS	S/N 8249	11/16/08	3030 ppm
		CYLINDER #:	METHANATION/FID		3040 ppm
		1L3312	GAS CHROMATOGRAPHY		3030 ppm
		@ 2528 ppm	LAST CAL DATE: 11/10/06	MEAN:	3030 ppm
			MONITOR LABS MODEL 8440		11/27/06
Nitric oxide	30.8 ± 0.2 ppm	GMIS	S/N 136	11/27/08	30.7 ppm
NOx	30.8 ppm	CYLINDER #:	CONTINUOUS		30.8 ppm
		CC28420	CHEMILUMINESCENCE		30.8 ppm
		@ 50.6 ppm	LAST CAL DATE: 11/22/06	MEAN:	30.8 ppm
			BOVAR MODEL 922M		11/29/06
Sulfur dioxide	29.35 ± 0.3 ppm	GMIS	S/N VD92284844	11/29/08	29.19 ppm
		CYLINDER #:	CONTINUOUS		29.28 ppm
O2-free Nitrogen	Balance	CC50772	UV PHOTOMETRY		29.27 ppm
CYLINDER PRESSURE:	1850 psig	@ 26.34 ppm	LAST CAL DATE: 11/07/06	MEAN:	29.25 ppm

ppm = µmole/mole % = mole-%

The above analyses were performed in accordance with Procedure G1 of the EPA Traceability Protocol, Report Number EPA-600/R97/121, dated September 1997.
This cylinder should not be used if the pressure is less than 150 psig.

ANALYST: M. J. MONSON APPROVED: J. T. MARRIN

The only liability of this company for gas which fails to comply with this analysis shall be replacement or reanalysis thereof by the company without extra cost.
STANDARD CALIBRATION GASES IN ALUMINUM CYLINDERS

TISCH ENVIROMENTAL, INC.
145 SOUTH MIAMI AVE.
VILLAGE OF CLEVES, OH 45002
513.467.9000
877.263.7610 TOLL FREE
513.467.9009 FAX
WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Jan 04, 2007 Rootsmeter S/N 9833620 Ta (K) - 293
Operator Tisch Orifice I.D. - C368 Pa (mm) - 751.84

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.2860	3.1	2.00
2	NA	NA	1.00	0.9060	6.3	4.00
3	NA	NA	1.00	0.8110	7.8	5.00
4	NA	NA	1.00	0.7730	8.5	5.50
5	NA	NA	1.00	0.6380	12.5	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0020	0.7791	1.4186		0.9959	0.7744	0.8828
0.9977	1.1012	2.0061		0.9916	1.0945	1.2485
0.9957	1.2278	2.2429		0.9896	1.2203	1.3959
0.9947	1.2868	2.3524		0.9886	1.2790	1.4640
0.9893	1.5507	2.8371		0.9833	1.5413	1.7657

Qstd slope (m) = 1.83980
intercept (b) = -0.01645
coefficient (r) = 0.99998

y axis = SQRT[H2O(Pa/760)(298/Ta)]

Qa slope (m) = 1.15205
intercept (b) = -0.01024
coefficient (r) = 0.99998

y axis = SQRT[H2O(Ta/Pa)]

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)
Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa]
Qa = Va/Time

For subsequent flow rate calculations:

Qstd = 1/m{[SQRT(H2O(Pa/760)(298/Ta))]- b}
Qa = 1/m{[SQRT H2O(Ta/Pa)]- b}

SYPRIS®
TEST & MEASUREMENT

CALIBRATION CERTIFICATE

Certificate Number: 5100095080
CUSTOMER # 510773-0000

AIR RESOURCE SPECIALISTS

1901 SHARP POINT DRIVE
STE E
FT. COLLINS, CO 80525
ATTN: Denise Yates

Manufacturer: FLUKE
Model: 8060A
Description: DIGITAL MULTIMETER
Size / Range:
Serial Number: 4735610
Asset Number:
Department:
Accessories: NO ACCESSORIES RECEIVED

Calibration Date: 01/15/2007
Recommended Due: 01/15/2008
As Received: IN TOLERANCE
As Returned: IN TOLERANCE
Procedure: MANUFACTURER'S MNL
Environment: 23 DEG C 32 % RH
P.O. / Release: A19596
Sypris ID #: 4735610
Barcode ID: 51-2013772
Location:

This instrument has been processed and calibrated in accordance with the Sypris Test & Measurement Quality Assurance Manual and is traceable to the National Institute of Standards and Technology (NIST). The Sypris Test & Measurement quality system is registered to ISO 9001:2000 and compliant with ISO 10012-1, ISO/IEC 17025-1999, ANSI/NCSL Z540-1-1994, 10 CFR 50 App. B, 10 CFR 21, NQA-1, and MIL-STD-45662A. This report may not be reproduced, except in full, without written approval of Sypris Test & Measurement. Unless stated otherwise; the expanded measurement uncertainty of the measurement process does not exceed 25% of the tolerance allowed for the individual characteristics measured, uncertainties of measurements for this calibration are based upon 95% (2 sigma) confidence limits, no sampling plan or other process was used for this calibration, the results reported herein apply only to the calibration of the item described above and no limitations of use apply to the calibrated item. Although the item calibrated meets the specifications and performance at the time of calibration, due to any number of factors, the recommended due date of the item calibrated does not imply continuing conformance to specifications during the recommended interval.

Calibration Accuracy MANUFACTURER'S SPECIFICATIONS

Conditions/Analysis

DUE CALIBRATION
CALIBRATED TO MANUFACTURER'S SPECIFICATIONS
PERFORMED PREVENTATIVE MAINTENANCE INSPECTION

STANDARDS USED

ID Number	Model Number	Cal Date	Due Date	Traceability Number
1004559	5700A	04/17/2006	04/17/2007	5100090305
1004560	5725A	04/17/2006	04/17/2007	5100090308

120406
CERTIFIED BY

Access your Calibration Records Online at http://Calweb.Sypris.com

1367
INSPECTED BY

8020 SOUTHPARK CIRCLE SUITE 300, LITTLETON, CO 80120 303-798-2243

QA 47-33 (05/05)

Page 1 of 1

R.M. Young Company
2801 Aero Park Drive
Traverse City, Michigan 49686 USA

Certificate of Calibration and Testing

Test Unit:			
Model:	18810	Serial Number:	21181
Description:	Anemometer Drive - 10 to 1,000 RPM - Comprised of Models 18820 Control Unit & 18831 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	Output Frequency (1) Hz	Calculated Rpm (2)	Indicated Rpm (3)
60	320	60	600
120	640	120	1200
240	1280	240	2400
420	2240	420	4200
600	3200	600	6000
810	4320	810	8100
990	5280	990	9900
☑ Clockwise and Counterclockwise rotation verified			

(1) Measured at the optical encoder output
(2) Frequency output produces 320 pulses per revolution of the motor shaft
(3) Indicated on the Control Unit LCD display - Note: Divide displayed rpm by 10 to calculate actual motor rpm

*Indicates out of tolerance

☑ No Calibration Adjustments Required ☐ As Found ☐ As Left

Traceable frequency meter used in calibration DP4863

Date of inspection 18 January 2007

Tested By EK

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

ALPHA TECHNICS

17151 Gillette Avenue
Irvine, CA 92614-5602 USA
Tel: 949.250.0178
Fax: 949.271.2300
www.alphatechnics.com

REPORT OF CALIBRATION
EUTECHNICS DIGITAL THERMOMETER
P/N 139200-3K3

S/N: 101610

The [illegible] Thermometer was calibrated at temperatures listed below by comparison to temperature standards traceable to the National Institute of Standards and Technology. The accuracy of these settings at time of calibration is estimated to be ±0.020°C (121.00°C is ±0.040°C).

Bath Temperature [illegible]	Reading Before Adjustment (°C)	Reading After Adjustment (°C)
[illegible]	0.00	0.00
[illegible]	37.00	37.00
[illegible]	75.01	75.00
[illegible]	121.00	121.00

Equipment used in this calibration at Eutechnics

Manufacturer	Model	Test No.	Test Date	Recall Date
Eutechnics	Temperature Standards	TE 188 TE 192 TE 195	12/21/06 12/21/06 12/21/06	01/21/07 01/21/07 01/21/07
[illegible]	Circulating Temperature Bath Controller	TE 165	N/A	N/A
[illegible]		TE 178	N/A	N/A
[illegible]		TE 200	N/A	N/A
[illegible]		TE 213	N/A	N/A

Replaced Parts

Qty	Circuit Designator	Description
1	B1	Battery 9V

Test [illegible] and supporting documents on file and available for inspection at 17151 Gillette Ave., Irvine, CA.

Tested by MC

Date01/08/07

Approved CDF

Date01/08/07

AT/RH Sensor Calibration Form

Serial Number:	95915	Owner:	ARS
Model Number:	Rotronic Hygroclip	Date of Last Operation:	1/24/2006 to 1/4/2007
Calibration Date:	1/22/2007	Last Operational Site:	DC REF
Service Technician:	Marty Mills		
Service Type:	Scheduled		
Comments:			

Pre - Calibration Relative Humidity:

Check Point	Nominal Time	NIST Traceable	Sensor	Deviation
10%	10 min.	10.0%	9.6%	-0.4%
35%	10 min.	35.1%	34.5%	-0.6%
50%	10 min.	50.1%	49.3%	-0.8%
60%	10 min.	60.1%	59.1%	-0.9%
70%	10 min.	70.1%	69.1%	-1.0%
80%	10 min.	80.2%	79.1%	-1.1%
90%	10 min.	90.1%	89.1%	-1.0%
95%	10 min.	95.1%	94.2%	-1.0%

RMS Error	Minimum Error	Maximum Error	Within Mfg Specifications
0.9%	0.4%	1.1%	True

Pre - Calibration Temperature:

Check Point	Nominal Time	NIST Traceable	Sensor	Deviation
15 degrees	10 min.	15.3	14.5	-0.8
25 degrees	10 min.	25.1	25.6	0.5
35 degrees	10 min.	34.7	36.4	1.6

RMS Error	Minimum Error	Maximum Error	Within Mfg Specifications
1.1	0.53	1.65	False

THE EPPLEY LABORATORY, INC.
12 Sheffield Ave., P.O. Box 419, Newport, RI 02840 USA
Telephone: 401-847-1020 Fax: 401-847-1031
Email: eplab@mail.bbsnet.com Internet: www.eppleylab.com

EPLAB
Scientific Instruments for Precision Measurements Since 1917

STANDARDIZATION OF EPPLEY PRECISION SPECTRAL PYRANOMETER Model PSP

Serial Number: 29282F3

Resistance: 717 Ω at 23 °C
Temperature Compensation Range: -20 to 40 °C

This radiometer has been compared with Standard Precision Spectral Pyranometer, Serial Number 21231F3 in Eppley's Integrating Hemisphere under radiation intensities of approximately 700 watts meter^{-2} (roughly one-half a solar constant). The adopted calibration temperature is 25 °C.

As a result of a series of comparisons, it has been found to have a sensitivity of:

$$7.56 \times 10^{-6} \text{ volts/watts meter}^{-2}$$

The calculation of this constant is based on the fact that the relationship between radiation intensity and emf is rectilinear to intensities of 1400 watts meter^{-2}. This radiometer is linear to within ± 0.5% up to this intensity.

The calibration of this instrument is traceable to standard self-calibrating cavity pyrheliometers in terms of the Systems Internationale des Unites (SI units), which participated in the Ninth International Pyrheliometric Comparisons (IPC IX) at Davos, Switzerland in September-October 2000.

Useful conversion facts: 1 cal cm^{-2} min^{-1} = 697.3 watts meter^{-2}
1 BTU/ft^2-hr^{-1} = 3.153 watts meter^{-2}

Shipped to:
Air Resource Specialist
Fort Collins, CO

Date of Test: January 3, 2007

In Charge of Test: R.T. Egema

S.O. Number: 60992
Date: January 9, 2007

Reviewed by: Thomas D. Kirk

Remarks:

U.S. Locations

AK, Anchorage
(907) 561-5700

AL, Birmingham
(205) 980-0054

AL, Florence
(256) 767-1210

CA, Alameda
(510) 748-6700

CA, Camarillo
(805) 388-3775

CA, Orange
(714) 973-9740

CA, Sacramento
(916) 362-7100

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(970) 493-8878

CO, Ft. Collins Tox Lab.
(970) 416-0916

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(850) 385-5006

GA, Norcross
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(630) 836-1700

IL, Collinsville
(618) 344-1545

LA, New Orleans
(504) 592-3559

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TX, Dallas
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TX, Houston
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TX, San Antonio
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(757) 312-0063

VA, Glen Allen
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WA, Redmond
(425) 881-7700

WI, Milwaukee
(262) 523-2040

Headquarters
MA, Westford
(978) 589-3000

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www.ensr.aecom.com

About ENSR

ENSR, an AECOM company, is a leading worldwide environmental services firm. Founded in 1968, ENSR serves industrial companies and government agencies with consulting, engineering, remediation, and environmental health and safety solutions. ENSR is a recipient of the BP HSSE Diamond Award, Textron Environmental Remediation Partner in Excellence Award, and Environmental Business Journal awards. As an AECOM company, ENSR is part of a global design and management company with 29,000 employees worldwide serving the transportation, facilities, and environmental markets.

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