



Palliser Airshed Society

Ambient Air Monitoring Network Summary

August 2005

Prepared By:
FOCUS
AIR QUALITY MONITORING

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July 27, 2005

Alberta Environment
Enforcement and Monitoring Division
11th Floor, Oxbridge Place
9820 - 106th Street
Edmonton, Alberta, T5K 2J6

Attention: Director of Monitoring and Evaluation

RE: Palliser Airshed Society (PAS) Ambient Air Monitoring Report – August 2005

Enclosed is the PAS Ambient Monitoring Report for the month of **August 2005**.

Please note that this report has been prepared in partial fulfillment of the City of Medicine Hat's air monitoring requirement as well as all members of the Palliser Airshed Society.

Continuous Monitoring – Crescent Heights

Included in this report are; monthly sampling table, detailed hourly average reports and multipoint calibration reports of all instruments. The measured ambient air quality was within the Provincial and Federal guidelines with no exceedences recorded. Operational time of all instruments (except the THC analyzer) was above 99% uptime for the month of August. The THC analyzer experienced a flame out resulting in a reduced uptime for the month of August of 84.1%. There were no significant events leading to emergency response for the month of August.

The following is a summary of the monthly averages recorded during sampling:

- Monthly average concentrations of NO₂ was 7.9 ppb
- Monthly average concentrations for O₃ was 26.2 ppb
- Monthly average concentrations for CO was 0.14 ppm
- Monthly average concentrations for PM_{2.5} was 5.8 µg/m³

Passive Monitoring – Six Stations throughout the PAS zone:

The following are the ranges for August 2005 recorded by the six passive stations located throughout the PAS zone.

- Monthly average concentrations for SO₂ passives ranged from 0.2 ppb to 0.4 ppb
- Monthly average concentrations for NO₂ passives ranged from 4.7 ppb to 5.9 ppb
- Monthly average concentrations for O₃ passives ranged from 25.3 ppb to 33.4 ppb

If you have any questions, please contact the Focus office at 1-888-466-6555 or 1-888-869-2252.

Gary Cross, C.E.T.
AQM Technical Manager

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AQM Environmental Specialist



August 2005 Monthly Overall Summary Report

Aug-2005		Palliser Airshed Society				Maximum Recorded Values							Operational Time (%)
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		1-hr			24-hr / 8-hr			
	1-hr	24-hr			1-hr	24-hr	Conc	Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	
NO (ppb)			Crescent Heights	2.4	-	-	53.5	Aug-26 21:00	2.8	S	6.0	Aug-26	99.7%
NO ₂ (ppb)	212	106	Crescent Heights	7.9	0	0	40.1	Aug-20 20:00	2.2	SSW	13.2	Aug-01	99.7%
NO _x (ppb)			Crescent Heights	10.1	-	-	88.7	Aug-26 21:00	2.8	S	18.1	Aug-06	99.7%
O ₃ (ppb)	82		Crescent Heights	26.2	0	-	65.1	Aug-06 16:00	6.9	WSW	39.9	Aug-05	99.7%
O ₃ (ppb) - 8-hr	65		Crescent Heights		0						58.7	Aug-05	
CO (ppm)	13		Crescent Heights	0.14	0	-	0.7	Aug-26 21:00	2.8	S	0.2	Aug-14	99.7%
CO (ppm) - 8-hr	5		Crescent Heights		0						0.4	Aug-01	
THC (ppm)			Crescent Heights	1.98	-	-	2.6	Aug-03 21:00	4.9	NNW	2.1	Aug-06	84.1%
PM _{2.5} (µg/m ³)		30 ^a	Crescent Heights	5.8		0	60.8	Aug-24 09:00	8.2	SW	25.3	Aug-24	99.3%
RH (%)			Crescent Heights	57.5	-	-	-	-	-	-	-	-	99.7%
SR (W/m ²)			Crescent Heights	220.6	-	-	-	-	-	-	-	-	99.7%
Temp (°C)			Crescent Heights	17.9	-	-	-	-	-	-	-	-	99.7%
WSPD v (km/hr)			Crescent Heights	8.7	-	-	-	Aug-02 17:00	30.0	N	13.6	25-Aug	99.7%
WSPD s (km/hr)			Crescent Heights	9.1	-	-	-	Aug-02 17:00	30.3	N	14.7	24-Aug	99.7%
WDIR (Deg)			Crescent Heights	N	-	-	-	-	-	-	-	-	99.7%

Note: ^a the draft 1-hr Alberta Ambient Air Quality Objectives
 * Wind Direction is the predominate direction for the Month



Continuous Monitoring

Ambient Air Monitoring Network

Crescent Heights Station

General Station Issues

Parameter	Make	Model	Units	Notes
Ozone	Teledyne - API	400E	ppb	No operational issues observed.
Nitrogen Dioxide	Teledyne - API	200E	ppb	No operational issues observed.
Total Hydrocarbons	Bendix	400A	ppm	Power loss occurred; flame went out and did not re-light. Analyzer brought back on-line and new alarm created to notify when flame does not re-light
Carbon Monoxide	TEI	49C	ppm	No operational issues observed.
PM 2.5	R&P TEOM	1400ab	$\mu\text{g}/\text{m}^3$	Flows noted as being slightly high, filter replaced, re-build of pump on schedule for next month's calibrations
Wind Speed	Met One	010C	kph	No operational issues observed.
Wind Direction	Met One	020C	Deg	No operational issues observed.
Ambient Temperature	Met One	083D	DegC	No operational issues observed.
Relative Humidity	Met One	083D	%	No operational issues observed.
Solar Radiation	Met One	096-1	W/m^2	No operational issues observed.
Data Acquisition System	Titan Logix	AP1000		No operational issues observed.



PAS - Cresent Heights AQI Monthly Summary

Station: Cresent Heights
Station Owner: PAS

Air Quality Index (AQI)

Monitoring Dates: August 1, 2005 to September 1, 2005

Alberta's Air Quality Index

Good	1 to 25
Fair	26 to 50
Poor	51 to 100
Very Poor	> 100

Summary

Number of 1-hr Good Readings:	671
Number of 1-hr Fair Readings:	38
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																							
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-Aug-05	8	9	13	10	8	6	6	8	7	11	11	14	10	22	24	25	23	17	16	16	A	13	14	14
2-Aug-05	12	14	14	11	12	9	10	11	17	19	22	20	21	24	25	22	23	23	A	20	19	16	14	
3-Aug-05	11	9	8	5	6	7	12	9	13	14	15	18	20	20	20	21	19	22	A	18	15	13	11	9
4-Aug-05	8	8	5	4	5	5	6	7	12	14	20	22	23	24	23	24	24	A	22	20	15	19	14	17
5-Aug-05	18	19	16	16	16	14	13	16	17	19	20	23	28	33	34	35	A	36	33	26	17	12	11	12
6-Aug-05	12	9	10	8	8	13	13	11	16	18	22	27	28	33	35	A	38	33	26	22	14	17	15	13
7-Aug-05	12	9	11	13	16	17	14	12	12	16	19	20	20	22	A	23	23	23	22	21	18	18	17	16
8-Aug-05	17	16	15	13	13	11	12	11	13	13	14	19	19	A	18	17	16	14	12	11	10	8	7	5
9-Aug-05	4	3	3	4	3	5	5	5	4	10	13	16	A	18	18	17	18	17	16	16	14	12	12	14
10-Aug-05	13	7	7	9	11	9	8	8	7	8	8	A	9	10	11	12	10	10	10	10	A	A	9	
11-Aug-05	9	9	11	8	6	6	6	8	11	12	A	15	15	16	17	17	17	15	12	12	12	12	8	8
12-Aug-05	9	7	10	9	8	7	6	7	9	A	12	11	11	11	12	12	11	10	10	8	7	7	6	3
13-Aug-05	3	3	2	2	2	2	3	5	A	10	14	16	17	17	16	18	18	19	17	14	12	11	10	11
14-Aug-05	10	9	8	6	4	4	5	A	14	15	15	18	22	25	25	27	25	24	22	20	22	20	15	15
15-Aug-05	14	15	15	14	11	13	A	12	13	17	19	22	23	24	24	24	22	22	20	11	10	10	11	10
16-Aug-05	9	9	9	10	9	A	8	8	9	9	10	13	15	17	18	18	17	19	17	14	11	10	9	7
17-Aug-05	6	7	6	5	A	4	3	5	6	6	6	7	7	7	8	7	6	6	6	6	6	7	6	5
18-Aug-05	5	6	4	A	5	4	3	5	7	7	8	12	14	15	15	16	15	14	12	11	9	7	6	7
19-Aug-05	7	6	A	5	4	3	3	5	9	11	12	14	16	17	18	18	18	18	19	17	10	8	7	6
20-Aug-05	5	A	7	6	4	7	8	7	9	13	17	21	22	23	27	26	25	23	18	12	14	12	9	9
21-Aug-05	A	6	6	6	6	6	8	12	15	18	22	23	25	25	25	27	27	26	23	15	13	9	9	A
22-Aug-05	14	16	15	10	11	8	8	14	17	19	19	20	20	20	19	19	18	18	17	16	15	14	A	11
23-Aug-05	11	13	13	12	11	11	10	13	16	19	20	21	22	22	21	17	15	14	10	A	2	2	2	6
24-Aug-05	7	7	A	5	6	6	6	7	27	40	37	30	27	25	27	27	25	25	23	24	27	33	30	19
25-Aug-05	19	19	A	22	17	11	13	17	20	23	20	18	21	23	24	24	22	20	13	11	10	8	7	7
26-Aug-05	7	A	9	7	6	5	7	6	8	9	12	18	20	20	20	20	20	19	18	15	9	15	10	8
27-Aug-05	A	5	4	8	6	5	6	7	11	11	10	15	28	25	24	23	25	24	25	21	12	12	10	A
28-Aug-05	10	6	7	7	6	6	10	7	12	18	25	28	31	32	30	27	26	26	21	16	7	12	A	8
29-Aug-05	8	8	9	6	9	9	8	6	15	21	25	25	25	25	25	25	25	20	18	15	A	14	13	
30-Aug-05	13	12	14	14	12	8	5	5	5	9	14	13	14	15	17	17	17	16	17	11	A	8	7	8
31-Aug-05	6	8	9	6	4	3	4	5	7	8	11	15	18	19	18	21	21	20	20	A	16	10	8	9



PAS - Cresent Heights Nitrogen Dioxide Monthly Summary

Station: Cresent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

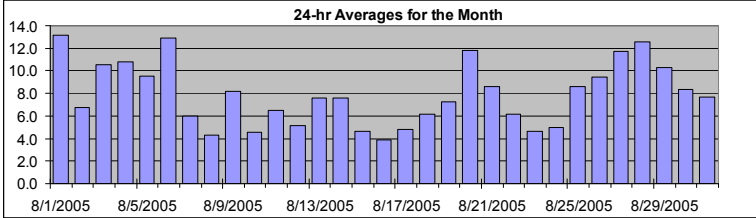
Nitrogen Dioxide (NO₂)

Monitoring Dates: August 1, 2005 to September 1, 2005

Objective Limit: Alberta Environment: 1-hr 212 ppb 24-hr 106 ppb

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	40.1 ppb	20-Aug	20:00	21:00
Maximum 24-hr Average:	13.2 ppb	1-Aug		



AIC Time:	33 hrs	Operational Time:	705 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	28.7	19.7	10.7	5.8	3.5	2.1	1.3	7.9 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Day	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum	
1-Aug-05	18	13	6	10	11	21	22	20	17	12	15	15	27	9	5	2	6	15	15	11	A	15	9	6	13.2	27.3	
2-Aug-05	8	8	5	9	7	12	11	9	5	4	4	10	9	5	3	8	4	2	2	A	10	6	8	6	6.7	12.4	
3-Aug-05	8	14	16	20	23	16	22	14	4	2	4	2	3	2	3	3	7	3	A	13	12	14	13	24	10.5	24.2	
4-Aug-05	25	19	15	13	18	20	16	15	9	10	4	2	2	3	4	3	4	A	12	10	17	6	14	6	10.8	24.9	
5-Aug-05	5	3	9	7	8	8	13	6	5	6	8	6	5	2	2	3	A	10	9	11	25	36	21	12	9.5	35.8	
6-Aug-05	12	30	14	22	17	33	25	18	6	5	6	6	10	8	5	A	11	6	10	10	22	9	6	6	12.9	32.7	
7-Aug-05	9	17	11	6	6	11	12	6	8	5	3	3	2	2	A	9	4	3	3	2	2	2	3	5	6.0	17.5	
8-Aug-05	4	4	3	3	3	5	4	5	3	2	1	1	A	9	4	3	4	3	4	5	4	5	8	8	11	4.3	10.5
9-Aug-05	12	13	12	11	14	11	13	13	14	8	5	3	A	10	6	4	4	4	4	4	4	6	7	6	3	8.2	14.1
10-Aug-05	4	7	8	4	4	3	5	6	4	3	4	A	12	6	4	4	3	3	3	3	4	3	N	N	2	4.6	12.4
11-Aug-05	3	4	3	9	11	9	9	5	5	4	A	14	9	6	4	3	3	3	3	5	5	5	5	13	10	6.5	14.4
12-Aug-05	7	9	3	4	4	5	6	4	2	A	11	5	4	4	3	3	3	5	4	5	6	5	6	11	5.1	11.0	
13-Aug-05	14	8	8	6	7	7	5	3	A	11	7	6	3	3	33	6	5	3	5	9	11	7	5	4	7.6	33.1	
14-Aug-05	7	9	7	9	11	16	10	A	14	9	14	12	11	6	5	5	3	2	3	4	6	5	4	4	7.6	15.5	
15-Aug-05	5	5	4	6	7	11	A	18	10	5	4	3	3	2	3	3	3	3	2	2	3	3	1	2	4.6	17.9	
16-Aug-05	2	2	1	1	1	A	13	7	4	6	8	6	5	2	2	2	2	2	3	4	3	3	3	4	3.9	13.5	
17-Aug-05	4	3	2	3	A	18	9	6	5	4	4	3	4	4	3	3	3	3	5	5	6	4	4	5	4.8	18.3	
18-Aug-05	7	7	8	A	20	15	13	8	6	6	5	3	3	3	3	2	4	4	2	2	4	6	6	4	6.2	19.8	
19-Aug-05	4	5	A	17	9	9	10	10	4	3	3	3	3	3	2	3	3	5	3	5	16	17	19	11	7.2	18.5	
20-Aug-05	13	A	27	17	15	16	16	10	8	9	7	3	2	3	3	2	3	4	10	21	40	17	16	9	11.8	40.1	
21-Aug-05	A	23	13	11	8	10	8	5	3	3	2	2	2	2	3	2	3	4	7	17	16	28	19	A	8.6	28.4	
22-Aug-05	17	10	5	17	11	11	13	6	3	1	1	1	1	1	2	2	3	3	3	5	4	4	A	17	6.2	17.3	
23-Aug-05	11	5	4	3	3	3	6	4	2	2	1	1	3	3	5	C	C	C	C	A	9	9	6	7	4.6	10.7	
24-Aug-05	5	4	A	11	7	5	6	5	4	3	6	3	3	3	8	8	9	8	3	3	3	2	2	3	5.0	11.4	
25-Aug-05	4	3	A	19	8	7	14	9	10	6	4	3	3	2	3	4	3	4	14	16	16	17	16	13	8.6	18.9	
26-Aug-05	6	A	14	11	9	11	12	7	4	4	4	4	3	5	5	5	4	4	4	8	25	35	17	18	9.5	35.3	
27-Aug-05	A	22	13	7	11	12	10	9	7	11	14	13	5	6	8	10	8	10	8	12	24	23	15	A	11.7	23.7	
28-Aug-05	18	20	29	15	14	13	16	15	7	4	4	3	2	4	6	8	8	7	14	21	28	10	A	22	12.6	28.7	
29-Aug-05	19	19	16	16	11	12	19	21	13	9	5	4	3	3	5	5	4	7	5	5	7	A	15	11	10.3	21.3	
30-Aug-05	8	8	5	5	7	11	14	11	8	5	4	5	5	5	3	3	4	4	3	12	A	36	17	9	8.3	35.7	
31-Aug-05	10	7	5	6	10	11	8	7	5	7	7	6	3	3	6	3	3	4	5	5	A	17	17	15	12	7.7	17.4
Hourly Avg	9.2	10.3	9.6	10.0	9.7	11.7	12.0	9.5	6.7	5.7	5.6	5.1	5.0	4.0	5.1	4.3	4.4	4.8	5.9	8.3	12.1	12.3	10.3	8.9			
Hourly Max	24.9	30.0	28.7	21.8	23.1	32.7	25.1	21.3	17.3	11.8	15.3	15.5	27.3	10.4	33.1	9.8	11.2	15.5	14.6	21.3	40.1	35.8	20.8	24.2			

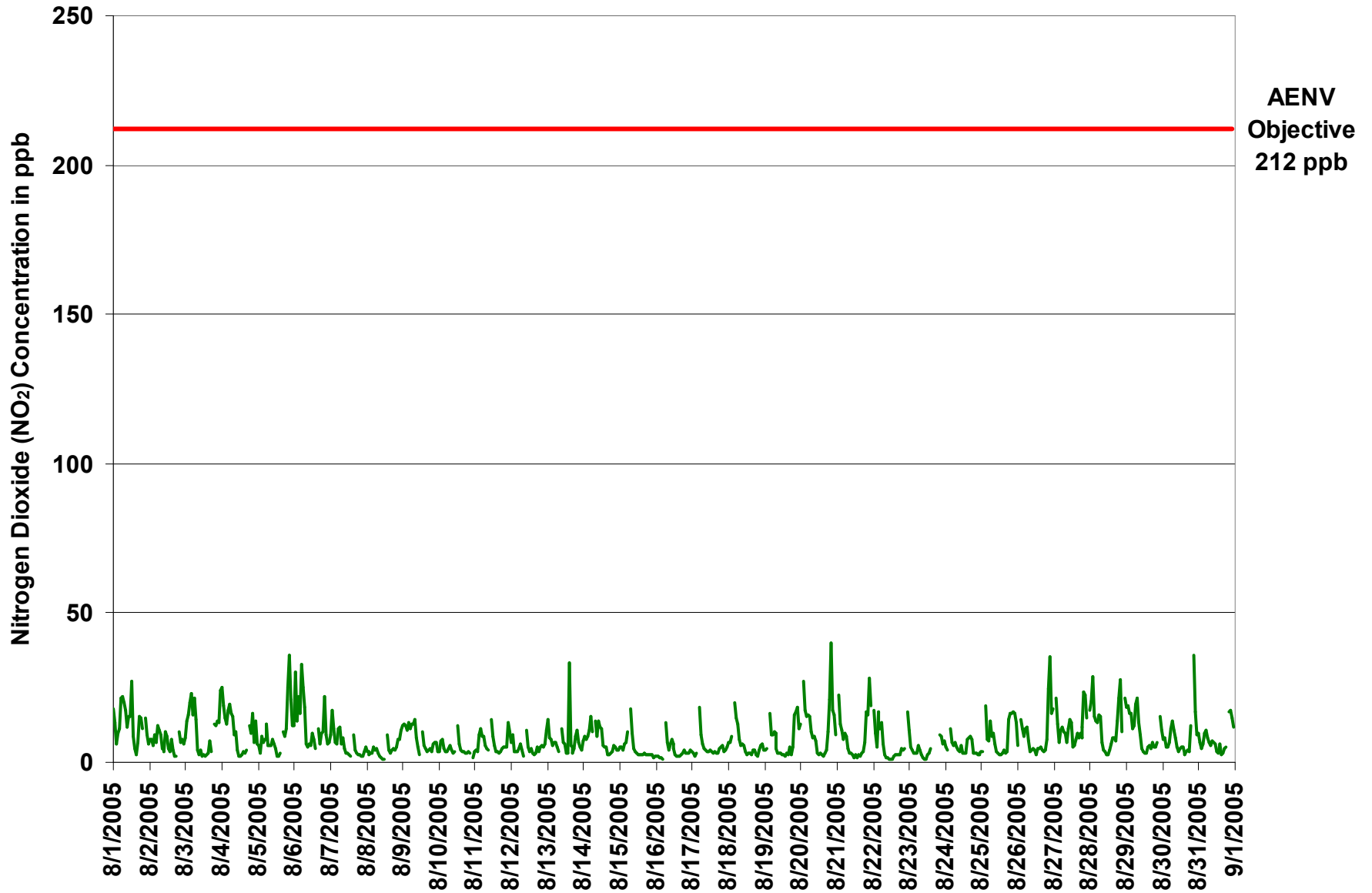


Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend



Station: Cresent Heights
 Station Owner: PAS

HOURLY MAXIMUM TABLE

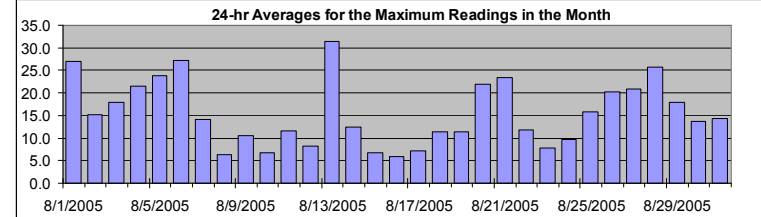
Nitrogen Dioxide (NO₂)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	373.3	ppb	13-Aug	14:00 15:00
Maximum 24-hr Value:	31.4	ppb	13-Aug	

AIC Time:	33 hrs	Operational Time:	705 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	54.0	39.8	21.0	10.7	5.5	3.2	2.3	15.5 ppb



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00		
1-Aug-05	40	24	9	12	18	25	25	26	21	17	30	22	48	19	30	9	45	47	33	47	A	37	28	8		26.9	48.3	
2-Aug-05	54	35	14	23	10	16	14	11	10	6	5	14	13	12	18	31	10	3	3	A	18	8	14	8		15.1	54.0	
3-Aug-05	10	20	20	37	33	30	33	19	6	3	7	4	4	4	4	6	39	7	A	23	22	21	23	36		17.9	39.1	
4-Aug-05	29	22	26	26	23	24	22	16	15	20	10	3	3	13	38	40	32	A	18	13	24	15	50	11		21.6	50.4	
5-Aug-05	41	12	57	31	33	47	27	21	30	9	13	11	7	3	3	5	A	20	14	15	47	57	28	15		23.8	57.3	
6-Aug-05	20	41	31	29	83	63	51	34	17	7	9	11	26	16	25	A	23	9	30	20	37	23	12	9		27.3	83.1	
7-Aug-05	18	52	22	34	37	37	31	8	12	6	6	6	4	3	A	18	6	4	3	3	3	3	5	7		14.2	52.2	
8-Aug-05	6	6	3	4	5	7	5	6	4	3	2	2	2	A	20	6	4	6	7	6	7	10	10	12		6.2	20.4	
9-Aug-05	15	14	16	12	17	14	15	15	17	12	6	5	A	19	7	5	5	5	6	5	8	10	11	4		10.6	18.7	
10-Aug-05	5	13	13	6	5	5	6	9	7	5	5	A	22	8	6	4	4	4	5	5	4	N	N	4		6.8	22.0	
11-Aug-05	5	6	5	17	17	18	18	8	20	6	A	25	13	8	5	5	4	6	12	10	10	12	20	11		11.5	25.4	
12-Aug-05	9	19	5	5	5	7	7	6	3	A	21	7	6	9	4	4	4	15	5	10	8	7	7	15		8.1	20.5	
13-Aug-05	20	12	22	20	23	22	11	11	A	21	10	22	5	5	373	27	26	5	11	25	32	8	7	5		31.4	373.3	
14-Aug-05	11	32	17	14	16	17	14	A	27	10	22	14	26	8	7	6	5	3	4	5	7	6	5	6		12.4	32.1	
15-Aug-05	6	12	6	7	8	13	A	28	13	6	4	4	3	3	12	5	4	4	3	3	4	4	2	3		6.8	28.0	
16-Aug-05	3	3	3	2	2	A	23	9	6	10	11	8	10	3	3	3	3	4	4	7	6	4	4	6		5.9	23.5	
17-Aug-05	6	4	3	5	A	31	13	8	5	5	4	5	7	6	4	4	4	4	8	10	7	7	6	9		7.2	30.7	
18-Aug-05	9	9	11	A	29	17	15	13	8	9	14	6	4	6	16	4	19	8	3	3	11	11	25	12		11.4	29.2	
19-Aug-05	7	14	A	26	11	15	13	13	7	7	5	5	5	5	3	5	3	8	5	7	33	26	25	14		11.5	33.1	
20-Aug-05	19	A	37	22	34	19	20	14	10	11	10	23	13	28	16	3	23	18	18	53	48	31	19	14		21.9	53.4	
21-Aug-05	A	58	31	45	36	18	26	6	6	5	4	3	15	3	37	4	9	8	33	50	24	46	48	A		23.4	58.4	
22-Aug-05	34	31	6	38	16	18	19	10	6	7	3	13	2	2	5	5	5	4	5	6	5	6	A	25		11.8	37.5	
23-Aug-05	17	8	6	5	5	4	11	12	4	3	2	2	5	7	11	C	C	C	C	A	11	13	11	12		7.8	17.4	
24-Aug-05	18	19	A	26	8	24	21	8	5	5	9	4	4	4	10	10	12	10	4	4	6	3	4	6		9.8	25.6	
25-Aug-05	6	5	A	31	15	11	17	16	13	11	6	4	4	4	4	8	4	6	27	24	48	40	23	34		15.7	48.0	
26-Aug-05	9	A	28	43	13	34	23	32	5	5	24	17	4	8	14	10	9	5	6	16	41	63	31	28		20.3	63.1	
27-Aug-05	A	49	18	8	19	25	12	19	9	22	19	20	9	17	10	13	11	34	22	17	48	38	19	A		20.8	49.2	
28-Aug-05	28	30	33	19	23	17	26	30	18	7	35	4	3	8	26	54	40	23	33	46	39	17	A	30		25.7	54.0	
29-Aug-05	22	28	32	25	16	18	29	28	27	14	28	5	5	5	10	10	7	10	6	7	17	A	35	31		18.0	35.4	
30-Aug-05	23	16	11	7	12	15	18	16	11	7	5	6	8	10	5	4	6	15	6	28	A	43	30	13		13.6	43.3	
31-Aug-05	13	18	6	9	13	35	10	32	10	10	15	9	5	11	15	4	5	8	10	A	33	27	17	14		14.3	34.8	
Hourly Avg	17.4	21.2	17.6	19.5	19.5	21.5	19.2	16.0	11.8	9.0	11.5	9.5	9.5	8.5	24.8	10.8	12.8	10.4	11.8	16.7	21.0	20.6	18.6	13.9				
Hourly Max	54.0	58.4	57.3	44.6	83.1	63.3	51.3	33.6	30.2	21.8	35.0	25.4	48.3	28.0	373.3	54.0	45.3	46.5	32.9	53.4	48.5	63.1	50.4	36.2				

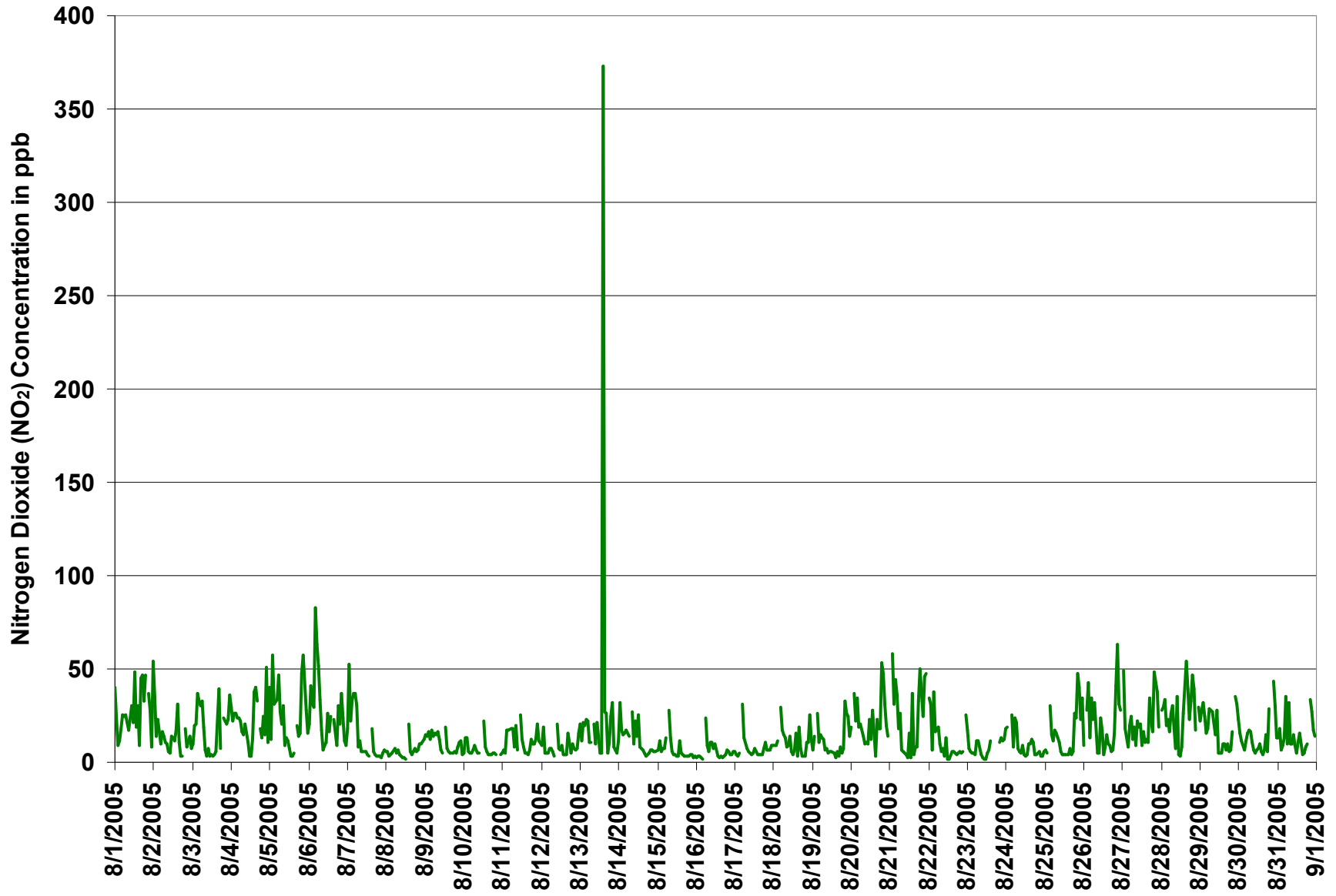
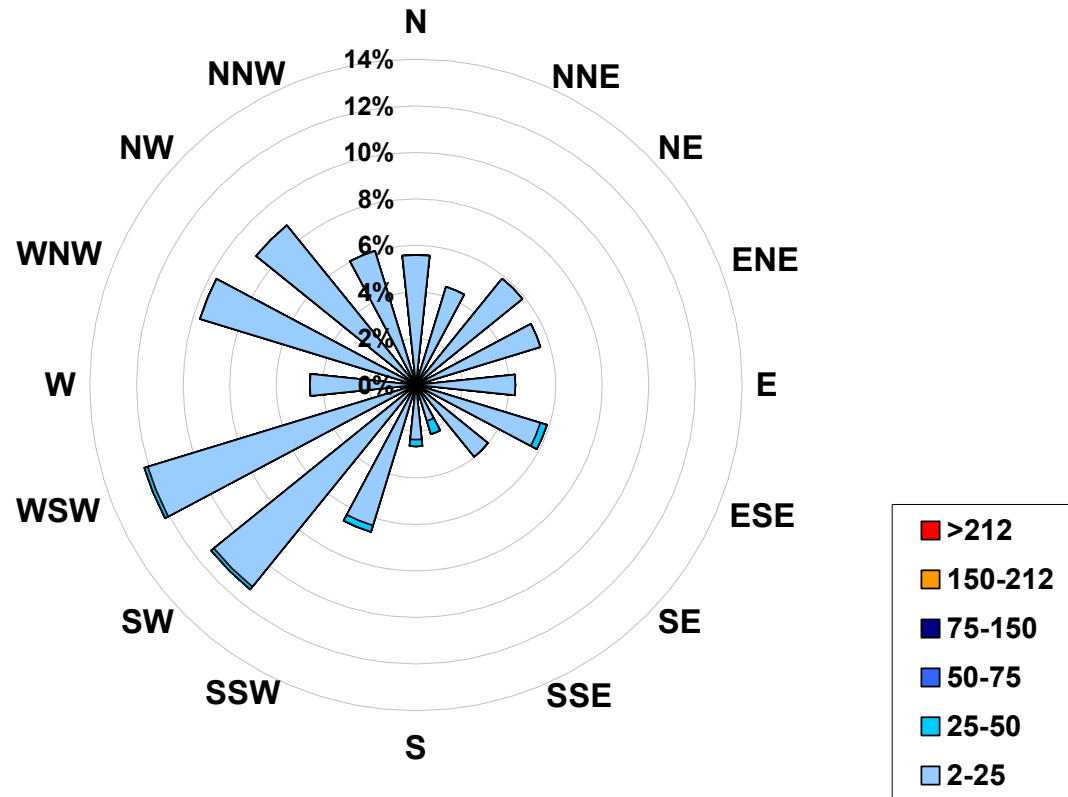


Figure 2. PAS - Crescent Heights Nitrogen Dioxide 1-hr Maximum Value Monthly Trend



1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Crescent Heights Site for August 2005



Calms: 0%

Frequency Distribution of NO ₂ in ppb			
Range	Frequency (hrs)		
2.0 < 25	702		
25 to 50	1		
50 to 75	2		
75 to 150	0		
150 to 212	0		
> 212	0		
Total Non-Zero Values	705		



PAS - Cresent Heights Nitric Oxide Monthly Summary

Station: Cresent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

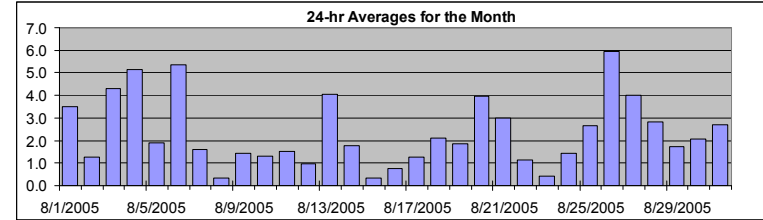
Nitric Oxide (NO)

Monitoring Dates: August 1, 2005 to September 1, 2005

Guideline Limit: 1-hr na ppb 24-hr na ppb
 Summary

Maximum 1-hr Average:	53.5	ppb	26-Aug	21:00	22:00
Maximum 24-hr Average:	6.0	ppb	26-Aug		

AIC Time:	33 hrs	Operational Time:	705 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	18.4	9.3	2.3	0.9	0.5	0.1	0.0	2.4 ppb



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
1-Aug-05	8	1	0	1	0	3	8	7	6	3	4	3	18	2	1	1	2	2	4	3	A	1	1	0	3.5	17.6	
2-Aug-05	5	2	0	1	0	1	2	3	1	1	1	2	3	1	1	3	1	0	0	A	0	0	0	0	1.3	5.2	
3-Aug-05	0	0	0	13	18	3	18	8	2	1	2	1	1	1	1	1	3	1	A	1	1	1	21	4.3	20.9		
4-Aug-05	15	2	2	3	12	18	24	16	5	5	1	0	1	1	3	2	2	A	1	0	0	0	6	0	5.1	23.6	
5-Aug-05	1	0	7	3	1	4	4	1	4	1	2	1	1	0	0	0	A	0	0	0	2	9	0	0	1.9	9.3	
6-Aug-05	0	7	1	2	14	51	22	15	2	1	1	1	2	1	1	A	1	0	1	0	1	0	0	0	5.4	51.5	
7-Aug-05	0	11	1	3	3	3	5	2	4	1	1	1	1	0	A	0	0	0	0	0	0	0	0	0	1.6	11.1	
8-Aug-05	0	0	0	0	0	0	0	1	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.4	0.8	
9-Aug-05	0	0	1	0	1	1	3	5	8	4	2	1	A	1	1	0	1	1	1	0	0	1	1	0	1.4	7.9	
10-Aug-05	0	0	1	0	0	1	1	2	2	1	1	A	2	1	1	1	1	1	1	1	1	N	N	10	1.3	10.1	
11-Aug-05	0	0	0	1	2	3	5	4	4	2	A	2	2	2	1	1	1	1	1	1	0	1	1	1	1.5	5.5	
12-Aug-05	1	1	0	0	0	0	2	2	1	A	1	1	1	2	1	1	1	3	1	1	1	1	1	1	1.0	2.6	
13-Aug-05	3	1	5	6	6	11	6	5	A	2	2	2	1	1	30	3	2	1	1	2	3	0	0	0	4.1	29.8	
14-Aug-05	1	5	2	1	1	6	4	A	2	2	6	4	3	1	1	1	0	0	0	0	0	0	0	0	1.8	6.0	
15-Aug-05	0	0	0	0	0	1	A	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	3.5	
16-Aug-05	0	0	0	0	0	A	1	1	1	3	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0.8	4.4	
17-Aug-05	0	0	0	0	A	3	2	2	1	2	1	2	2	2	1	1	1	1	2	2	1	1	1	0	1.3	2.9	
18-Aug-05	0	0	2	A	2	4	10	5	3	3	4	2	1	1	1	1	2	1	1	0	1	1	3	1	2.1	9.8	
19-Aug-05	1	2	A	4	1	4	5	6	3	2	2	1	1	1	1	1	1	1	0	0	2	1	2	1	1.8	6.1	
20-Aug-05	1	A	9	3	8	9	19	9	5	4	3	1	1	1	1	0	1	1	1	4	10	1	1	1	4.0	18.7	
21-Aug-05	A	9	6	9	7	3	5	2	1	1	1	1	0	2	1	1	1	1	1	3	0	7	6	A	3.0	8.9	
22-Aug-05	1	2	0	10	1	1	4	2	1	1	0	0	0	0	1	0	1	0	0	0	0	0	A	0	1.2	10.4	
23-Aug-05	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	C	C	C	C	A	2	1	0	1	0.4	2.3	
24-Aug-05	2	2	A	8	1	2	3	2	2	1	2	1	1	1	1	1	1	0	0	0	0	0	0	0	1.4	8.5	
25-Aug-05	0	0	A	1	0	1	7	2	3	1	1	1	0	0	0	1	1	1	2	1	16	12	1	8	2.7	16.5	
26-Aug-05	0	A	0	7	1	5	14	9	3	2	3	1	1	2	2	2	1	1	1	1	15	54	7	6	6.0	53.5	
27-Aug-05	A	10	2	0	8	8	4	6	4	9	12	8	1	2	2	3	1	2	1	1	4	2	1	A	4.0	11.6	
28-Aug-05	1	4	7	1	1	1	15	15	3	1	1	1	0	1	2	3	2	1	1	1	1	0	A	1	2.8	14.9	
29-Aug-05	0	1	2	1	1	1	5	12	5	2	2	1	1	1	1	1	1	1	0	0	1	A	1	1	1.7	12.1	
30-Aug-05	0	0	0	0	0	1	2	3	3	2	1	1	1	2	1	1	1	1	1	3	A	18	4	1	2.1	17.7	
31-Aug-05	1	1	0	0	1	10	5	11	6	8	5	3	1	1	2	1	1	1	1	1	A	0	1	0	1	2.7	10.9
Hourly Avg	1.5	2.2	1.8	2.7	3.0	5.3	6.8	5.4	2.9	2.3	2.2	1.5	1.6	1.0	2.0	1.1	1.0	0.8	0.8	1.0	2.2	3.9	1.4	1.9			
Hourly Max	14.7	11.1	8.9	13.4	18.1	51.5	23.6	16.1	7.9	9.0	11.6	8.2	17.6	2.2	29.8	3.3	3.4	2.6	4.4	3.6	16.5	53.5	7.4	20.9			



Station: Cresent Heights
 Station Owner: PAS

HOURLY MAXIMUM TABLE

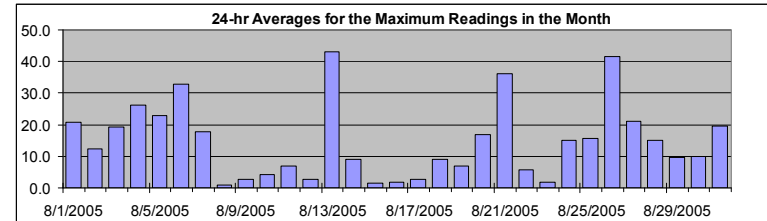
Nitric Oxide (NO)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	274.2	ppb	13-Aug	14:00 15:00
Maximum 24-hr Value:	43.1	ppb	13-Aug	

AIC Time:	33 hrs	Operational Time:	705 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	140.8	85.6	9.7	2.5	1.3	0.7	0.5	14.6 ppb



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																										24-hour Average	Daily Maximum
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Aug-05	75	4	1	3	1	7	12	15	9	7	19	6	62	7	31	5	40	19	29	63	A	33	28	1	20.7	75.1		
2-Aug-05	138	64	1	4	3	2	4	4	3	2	1	4	4	4	7	30	2	1	1	A	1	1	1	1	12.3	138.4		
3-Aug-05	1	1	2	99	68	23	81	14	2	2	4	1	1	2	2	2	57	1	A	2	11	3	9	55	19.3	98.9		
4-Aug-05	30	7	36	27	35	42	73	20	13	17	4	1	2	10	74	57	40	A	2	1	2	1	108	1	26.2	108.4		
5-Aug-05	45	2	94	72	31	91	25	14	86	3	5	4	2	1	1	1	A	1	2	1	8	40	1	1	23.0	93.6		
6-Aug-05	1	25	6	4	259	192	108	84	7	2	2	2	19	4	16	A	2	1	5	1	11	1	1	1	32.8	259.1		
7-Aug-05	1	100	3	106	112	25	37	3	7	2	2	2	2	1	1	A	2	1	1	1	1	1	1	1	17.9	112.0		
8-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	A	2	1	1	1	1	1	1	2	1	1	1	1.0	1.6	
9-Aug-05	1	2	3	1	3	3	5	8	12	8	3	2	A	2	1	1	2	1	1	1	1	1	2	1	2.8	11.9		
10-Aug-05	1	1	2	1	1	1	2	4	3	2	2	A	3	2	1	1	1	2	1	2	2	N	N	53	4.2	53.0		
11-Aug-05	1	1	2	4	9	19	33	9	51	4	A	2	5	3	2	2	2	1	3	2	1	1	2	1	6.9	51.1		
12-Aug-05	1	4	1	1	1	1	3	3	3	A	2	2	3	6	2	2	2	12	2	2	2	2	2	4	2.8	11.9		
13-Aug-05	26	2	86	136	98	132	22	54	A	3	3	26	2	2	274	28	24	2	3	28	36	2	1	1	43.1	274.2		
14-Aug-05	1	106	16	1	2	10	8	A	6	3	20	6	13	2	2	1	1	1	1	1	1	1	1	0	8.9	105.7		
15-Aug-05	1	3	1	1	1	3	A	5	4	1	1	0	1	0	5	1	1	1	0	0	1	1	1	1	1.4	4.9		
16-Aug-05	1	0	0	0	1	A	2	2	2	9	8	4	5	1	1	1	1	1	1	1	1	1	1	1	1.9	8.7		
17-Aug-05	1	1	1	1	A	4	3	3	2	3	2	3	4	8	4	2	2	3	4	7	2	1	1	1	2.7	7.7		
18-Aug-05	1	1	5	A	3	7	18	10	6	6	22	4	3	3	14	2	21	3	2	1	1	1	72	5	9.2	71.6		
19-Aug-05	2	35	A	25	2	28	10	10	7	6	4	3	3	2	2	2	1	2	1	1	7	3	5	1	7.0	34.7		
20-Aug-05	4	A	17	11	117	14	30	16	8	6	5	14	5	26	18	1	11	14	2	32	25	10	3	1	16.9	116.6		
21-Aug-05	A	136	97	122	152	11	42	3	3	2	2	1	18	1	35	1	2	2	16	34	1	56	60	A	36.3	151.6		
22-Aug-05	3	20	1	67	3	5	6	3	2	2	2	2	1	1	1	1	2	1	1	1	1	1	A	2	5.6	67.2		
23-Aug-05	2	1	1	1	1	1	2	2	1	1	1	1	2	4	C	C	C	C	A	3	3	2	3	1.7	4.5			
24-Aug-05	89	51	A	80	3	56	39	4	3	3	5	3	2	1	2	2	1	1	1	1	1	0	1	0	15.2	89.2		
25-Aug-05	1	1	A	4	1	4	11	8	6	4	2	2	2	1	1	3	1	2	4	4	102	98	5	97	15.8	102.0		
26-Aug-05	2	A	1	159	6	65	72	141	8	3	45	18	2	5	12	3	3	2	2	8	57	242	45	54	41.6	241.9		
27-Aug-05	A	137	16	1	40	91	5	20	6	24	18	20	3	11	3	4	2	15	4	1	27	9	1	A	21.0	137.2		
28-Aug-05	2	15	15	2	7	3	48	89	23	3	17	2	1	2	9	51	24	6	10	8	4	1	A	2	15.0	88.7		
29-Aug-05	1	3	39	3	4	2	32	29	26	4	37	1	1	2	2	3	2	1	1	1	2	A	4	19	9.6	39.4		
30-Aug-05	4	1	1	1	1	2	5	5	6	3	2	3	2	5	3	2	3	9	1	25	A	102	39	3	9.9	102.4		
31-Aug-05	4	17	1	1	4	140	12	190	14	11	16	6	2	7	8	2	1	2	1	A	2	2	1	1	19.4	189.9		
Hourly Avg	15.2	25.6	16.1	31.3	32.2	32.8	25.0	25.7	11.1	4.9	8.5	4.9	5.8	4.1	18.0	7.4	8.8	3.8	3.6	8.3	10.9	21.3	14.2	10.9				
Hourly Max	138.4	137.2	96.7	159.1	259.1	192.4	108.4	189.9	86.4	24.4	45.1	26.1	62.1	25.6	274.2	57.1	57.3	19.2	29.0	62.8	102.0	241.9	108.4	97.2				



PAS - Cresnet Heights Oxides of Nitrogen Monthly Summary

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

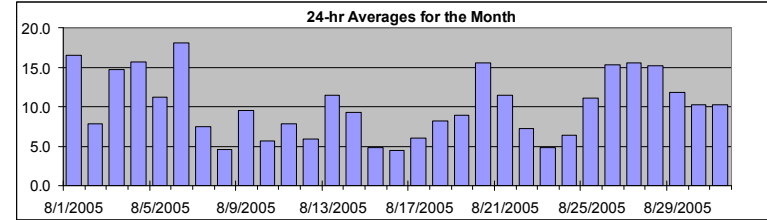
Station: Cresnet Heights
 Station Owner: PAS

Monitoring Dates: August 1, 2005 to September 1, 2005

Guideline Limit: Alberta Environment: 1-hr na ppb 24-hr na ppb
 Summary

Maximum 1-hr Average:	88.7	ppb	26-Aug	21:00 22:00
Maximum 24-hr Average:	18.1	ppb	6-Aug	

AIC Time:	33 hrs	Operational Time:	705 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	44.8	27.2	13.1	7.0	4.1	2.4	1.2	10.1 ppb



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Aug-05	26	14	6	10	12	24	30	27	23	14	20	18	45	10	6	3	8	18	19	15	A	16	10	6	16.5	44.7	
2-Aug-05	13	9	6	10	7	13	13	12	6	5	4	12	11	6	4	11	5	2	2	A	10	6	8	6	7.9	13.3	
3-Aug-05	8	14	16	33	41	19	40	23	6	3	5	2	3	3	3	4	10	4	A	13	14	15	14	45	14.7	45.0	
4-Aug-05	39	21	17	16	30	37	40	31	14	15	5	2	2	3	7	4	6	A	13	10	17	6	20	6	15.7	39.9	
5-Aug-05	7	3	15	9	9	11	17	7	9	7	10	7	5	2	2	3	A	10	9	11	26	45	21	12	11.2	44.8	
6-Aug-05	12	36	14	23	30	84	47	34	8	6	7	6	12	9	5	A	12	6	10	10	23	9	6	6	18.1	84.0	
7-Aug-05	10	28	12	9	9	14	16	8	12	6	4	3	3	2	A	9	4	3	2	2	2	2	4	5	7.4	28.4	
8-Aug-05	4	4	3	3	3	6	4	5	3	2	2	1	1	A	9	4	3	4	5	4	6	8	8	11	4.5	10.9	
9-Aug-05	13	13	13	11	15	12	15	18	22	12	7	3	A	11	6	5	4	4	5	4	7	7	7	4	9.5	21.9	
10-Aug-05	4	7	8	5	4	4	5	7	5	4	5	A	14	7	5	4	4	4	4	4	4	N	N	12	5.7	13.8	
11-Aug-05	3	5	4	10	13	11	14	9	9	6	A	16	11	7	4	4	4	4	5	6	5	5	14	10	7.9	15.9	
12-Aug-05	7	10	3	4	4	5	7	6	3	A	12	6	4	6	3	3	4	8	5	6	7	6	7	12	5.9	11.8	
13-Aug-05	17	9	12	12	13	17	11	9	A	13	8	8	4	4	60	9	7	3	6	10	13	7	6	4	11.4	59.9	
14-Aug-05	7	13	10	9	12	21	14	A	16	11	20	16	14	7	6	6	3	3	3	4	6	5	4	4	9.3	21.4	
15-Aug-05	5	5	4	6	7	11	A	21	12	5	4	3	3	2	3	3	3	3	2	2	3	3	1	2	4.8	21.3	
16-Aug-05	2	2	1	1	1	A	14	8	5	9	12	8	6	3	2	2	2	3	3	4	4	3	3	4	4.5	14.5	
17-Aug-05	4	3	2	3	A	21	12	8	6	5	5	6	6	4	4	4	5	7	7	6	4	5	5	5	6.0	21.2	
18-Aug-05	7	7	10	A	21	19	23	13	8	9	9	5	4	4	4	3	6	5	3	2	5	6	9	5	8.2	22.5	
19-Aug-05	4	6	A	21	10	14	15	16	7	5	5	4	4	3	2	4	3	6	3	5	17	18	20	11	8.9	20.9	
20-Aug-05	13	A	36	20	23	24	34	19	14	12	9	4	3	4	3	2	4	5	11	25	49	18	16	10	15.6	49.2	
21-Aug-05	A	31	19	19	15	12	13	6	4	4	2	3	2	3	2	4	4	4	7	20	16	35	25	A	11.4	35.1	
22-Aug-05	18	11	5	27	12	12	17	8	4	2	2	1	1	1	3	3	3	3	3	5	4	4	A	17	7.2	27.1	
23-Aug-05	11	5	4	3	3	3	6	5	3	1	1	1	3	3	5	C	C	C	C	A	10	10	7	8	4.8	11.0	
24-Aug-05	7	6	A	20	7	8	10	7	6	5	8	4	4	4	9	9	9	8	3	3	3	2	2	3	6.4	20.0	
25-Aug-05	4	3	A	20	8	8	21	11	13	8	4	3	3	3	3	5	3	4	16	18	33	28	17	21	11.1	32.6	
26-Aug-05	6	A	14	18	10	16	26	16	6	6	7	5	3	6	6	7	5	4	5	9	40	89	24	24	15.3	88.7	
27-Aug-05	A	32	15	7	18	20	14	15	10	20	26	21	6	7	9	12	9	11	8	12	27	24	16	A	15.5	31.9	
28-Aug-05	18	24	36	16	15	14	31	30	10	5	4	3	2	5	8	11	10	8	15	22	29	10	A	22	15.1	35.7	
29-Aug-05	19	20	18	17	12	13	24	33	19	11	6	4	3	4	6	7	5	7	5	5	7	A	16	12	11.8	33.2	
30-Aug-05	8	8	5	5	7	12	16	13	11	7	5	6	6	7	4	3	4	5	4	16	A	53	20	10	10.3	53.1	
31-Aug-05	11	8	5	7	11	21	13	18	11	15	12	9	4	4	8	3	3	4	5	5	A	17	18	15	12	10.2	20.9
Hourly Avg	10.6	12.4	11.3	12.5	12.6	16.9	18.7	14.7	9.4	7.8	7.7	6.4	6.5	4.8	6.9	5.2	5.2	5.5	6.5	9.1	14.1	16.0	11.6	10.7			
Hourly Max	39.3	36.2	36.0	33.3	40.9	84.0	47.4	33.5	23.2	20.2	25.9	21.3	44.7	11.3	59.9	12.2	11.6	17.6	18.9	24.6	49.2	88.7	24.7	45.0			

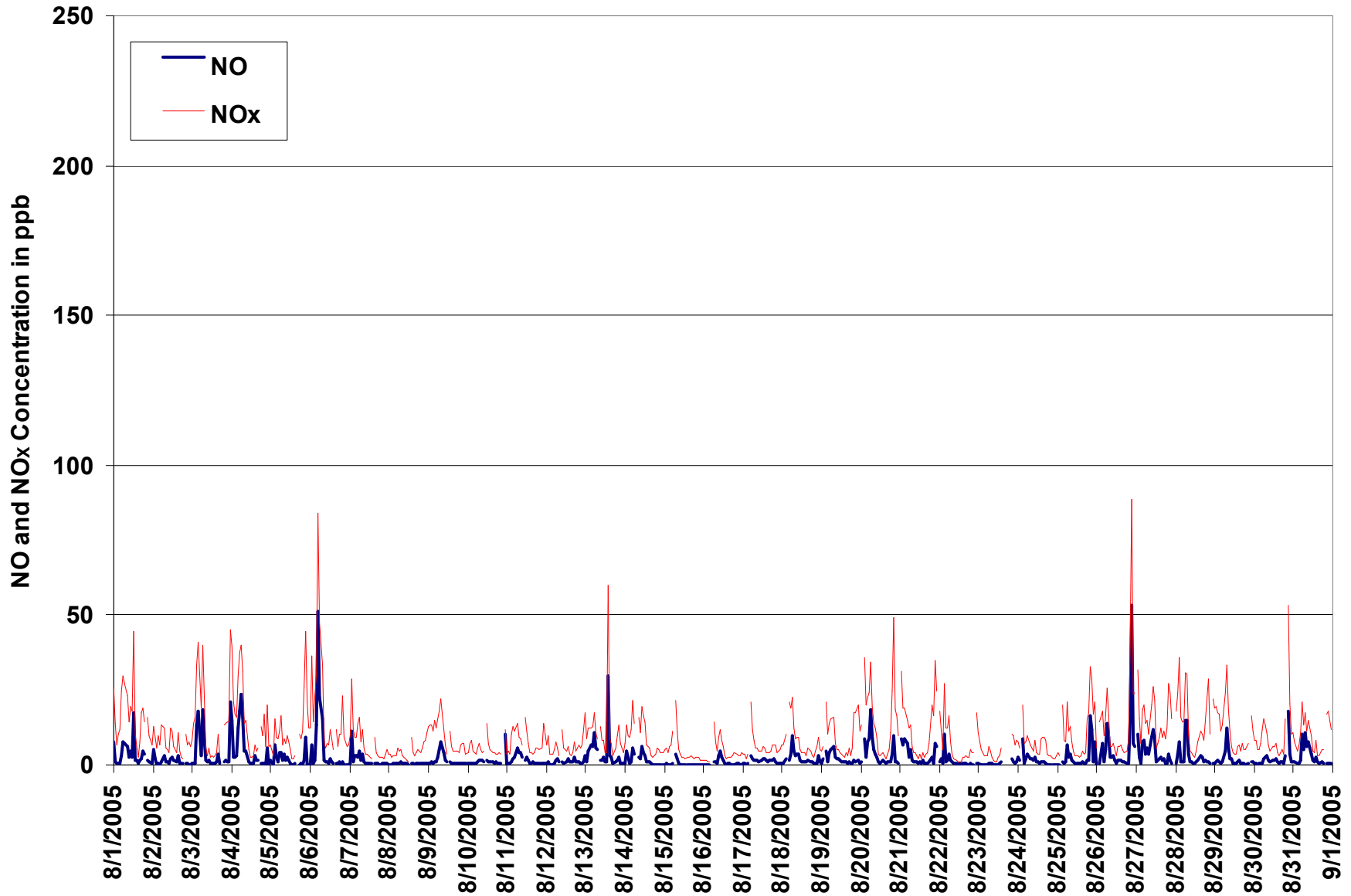


Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

HOURLY MAXIMUM TABLE

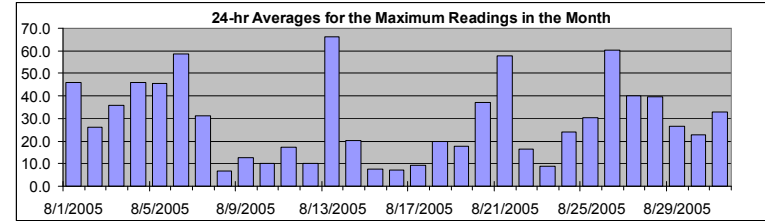
Oxides of Nitrogen (NO_x)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	498.3	ppb	13-Aug	14:00 15:00
Maximum 24-hr Value:	66.2	ppb	13-Aug	

AIC Time:	33 hrs	Operational Time:	705 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	185.5	109.8	31.2	13.8	6.6	3.5	2.4	28.9 ppb



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Aug-05	113	28	9	14	19	31	36	40	30	24	47	27	109	26	62	15	85	65	53	106	A	63	53	8	46.2	113.0
2-Aug-05	176	99	14	27	12	17	16	14	12	7	6	17	17	16	25	56	12	4	3	A	19	8	14	8	26.1	176.0
3-Aug-05	10	20	22	128	99	53	108	32	8	4	11	5	5	4	5	7	96	8	A	25	31	23	32	88	35.8	128.5
4-Aug-05	57	29	55	48	57	63	95	36	28	37	14	4	4	23	101	96	73	A	19	14	25	15	157	11	46.0	156.7
5-Aug-05	82	15	145	94	65	135	49	34	116	12	18	15	9	3	3	5	A	20	15	16	52	97	29	15	45.4	145.0
6-Aug-05	20	62	36	33	342	247	160	117	25	8	11	13	41	20	41	A	24	9	35	20	44	23	12	9	58.8	341.6
7-Aug-05	18	144	24	140	149	62	66	10	19	7	7	7	5	4	A	19	6	5	3	3	3	3	5	7	31.1	149.3
8-Aug-05	6	6	3	4	6	8	6	7	4	3	3	2	2	A	21	6	4	6	8	7	7	10	10	12	6.6	21.2
9-Aug-05	15	16	19	13	20	15	19	22	25	20	8	6	A	20	7	6	5	5	6	5	8	11	12	5	12.7	25.4
10-Aug-05	5	14	14	6	5	5	7	12	9	6	7	A	23	9	6	5	5	5	5	5	5	N	N	54	10.2	54.1
11-Aug-05	5	6	6	21	26	35	49	18	66	10	A	27	17	11	5	6	5	6	14	11	11	13	21	12	17.5	66.4
12-Aug-05	9	23	5	4	5	8	10	8	6	A	22	9	8	14	5	5	6	27	6	12	9	8	8	18	10.2	26.6
13-Aug-05	42	13	108	148	115	146	33	61	A	23	13	47	6	6	498	55	48	6	13	52	67	9	7	6	66.2	498.3
14-Aug-05	12	134	33	15	17	27	20	A	33	13	39	19	38	10	9	7	5	3	4	5	7	7	5	6	20.3	133.9
15-Aug-05	7	15	5	7	8	15	A	31	17	7	4	4	4	3	16	6	4	4	3	3	5	4	2	2	7.6	30.6
16-Aug-05	3	3	4	2	2	A	24	10	7	19	17	11	15	4	3	3	3	4	4	7	6	4	4	6	7.2	24.4
17-Aug-05	6	4	3	5	A	33	15	10	7	7	6	8	11	14	8	5	6	7	10	17	9	7	7	10	9.3	33.4
18-Aug-05	9	9	17	A	31	23	32	23	14	14	36	9	7	9	29	5	38	9	5	4	11	11	97	17	20.0	96.8
19-Aug-05	8	48	A	48	12	42	22	22	10	13	8	8	8	7	4	7	5	9	6	7	39	28	28	15	17.7	48.4
20-Aug-05	22	A	46	32	141	31	49	28	18	16	14	34	18	54	34	4	34	31	19	85	72	36	21	14	37.1	141.0
21-Aug-05	A	195	128	152	186	28	67	9	8	7	5	4	28	3	67	5	10	9	48	82	25	99	108	A	57.7	194.6
22-Aug-05	37	51	7	105	18	22	24	11	7	8	3	13	3	2	6	6	5	4	4	6	5	6	A	26	16.6	105.0
23-Aug-05	18	8	6	5	4	4	13	13	5	3	2	2	6	8	15	C	C	C	C	A	11	15	12	15	8.6	17.6
24-Aug-05	107	69	A	103	10	80	57	10	8	8	14	6	6	5	11	11	13	11	5	4	6	3	3	6	24.2	107.0
25-Aug-05	6	5	A	34	16	16	28	23	18	14	7	5	5	4	10	5	7	30	27	147	132	27	125	30.3	146.7	
26-Aug-05	11	A	28	202	19	99	93	168	13	7	69	35	4	12	26	12	12	7	7	24	92	289	75	80	60.2	289.0
27-Aug-05	A	175	34	9	51	110	17	40	15	46	37	41	11	25	13	16	12	49	26	17	73	47	19	A	40.1	175.4
28-Aug-05	29	43	46	20	30	18	75	114	40	10	51	5	3	9	36	105	62	28	43	55	43	18	A	30	39.7	113.7
29-Aug-05	22	31	71	27	19	20	57	49	52	19	66	6	5	5	11	13	7	10	7	7	18	A	39	50	26.6	70.8
30-Aug-05	28	16	12	7	12	16	22	19	17	9	6	9	9	14	7	5	9	24	7	53	A	141	67	16	22.8	141.4
31-Aug-05	17	35	7	9	17	172	22	215	24	21	29	14	7	17	23	5	6	10	10	A	34	28	18	15	32.8	215.1
Hourly Avg	31.0	45.4	32.4	48.8	50.4	52.7	43.0	40.1	22.0	13.4	19.3	13.7	14.4	12.1	36.8	17.4	20.9	13.5	14.5	24.3	30.5	39.9	31.9	23.7		
Hourly Max	176.0	194.6	145.0	202.3	341.6	246.9	160.1	215.1	116.2	46.2	68.7	47.2	109.1	53.8	498.3	105.0	95.8	64.6	53.0	105.6	146.7	289.0	156.7	124.8		

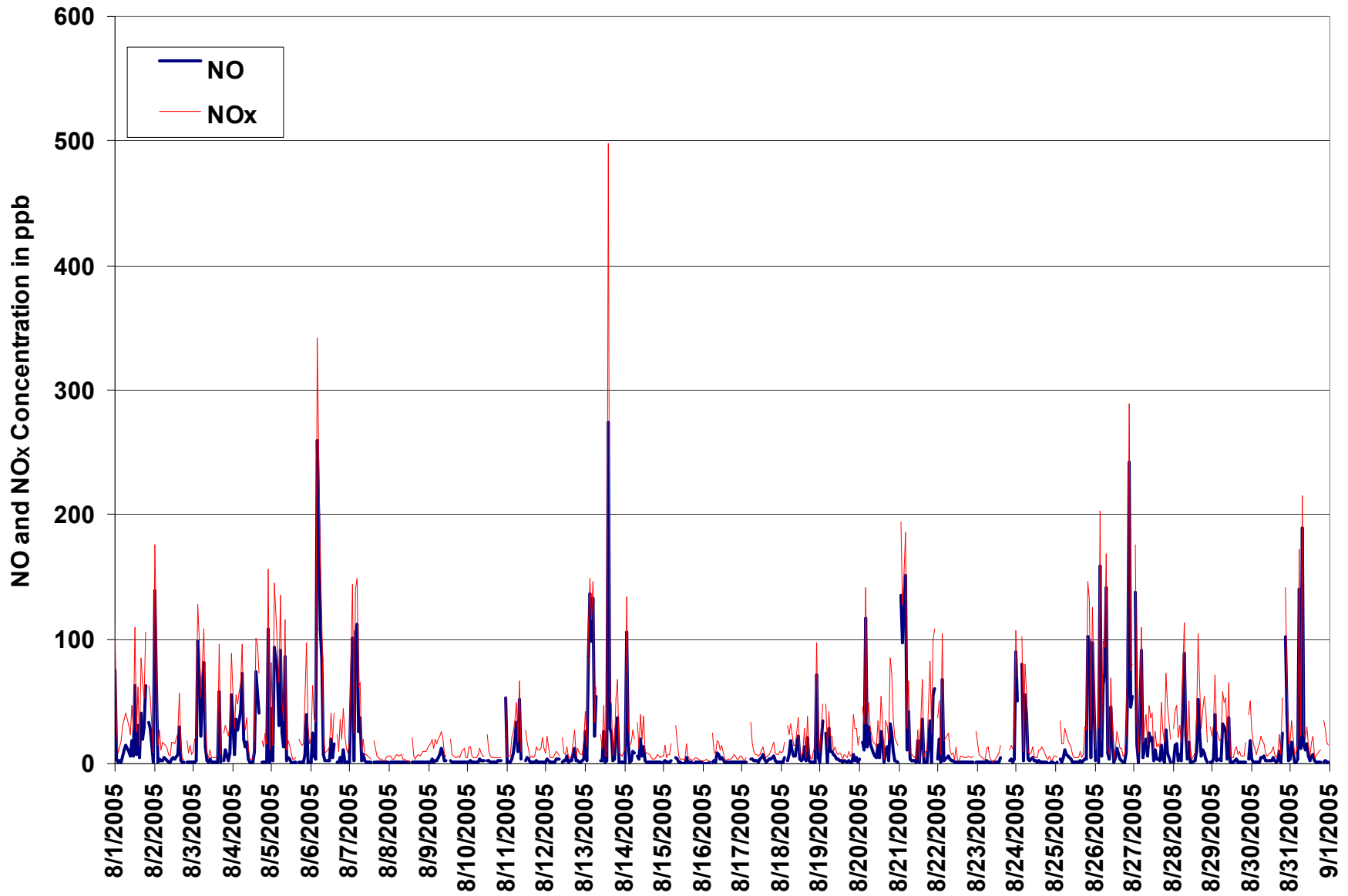


Figure 4. PAS - Crescent Heights Oxides of Nitrogen 1-hr Maximum Value Monthly Trend



PAS - Cresent Heights Ozone Monthly Summary

Station: Cresent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

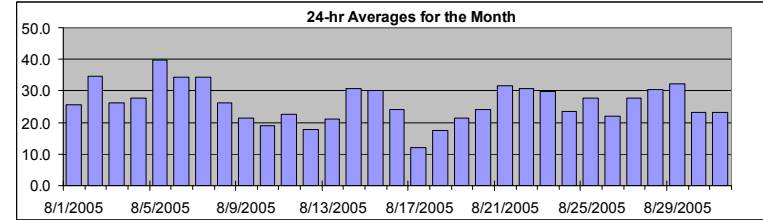
Ozone (O₃)

Monitoring Dates: August 1, 2005 to September 1, 2005

Objective Limit: Alberta Environment: 1-hr 82 ppb 24-hr na ppb

Summary

Number of 1-hr Exceedances:	0					
Maximum 1-hr Average:	65.1	ppb	6-Aug	16:00	17:00	
Maximum 24-hr Average:	39.9	ppb	5-Aug			



AIC Time:	34 hrs	Operational Time:	706 hrs					
Calibration Time:	2 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	59.3	50.0	35.8	24.7	15.5	6.3	3.3	26.2 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Aug-05	16	18	25	19	16	7	8	8	14	23	23	27	21	43	48	49	45	34	32	31	A	27	28	28	25.6	49.4
2-Aug-05	25	27	27	21	24	17	20	23	33	38	44	39	42	47	49	44	47	46	46	A	40	38	32	28	34.7	49.1
3-Aug-05	23	18	15	9	6	14	11	19	26	28	30	36	39	40	41	41	38	44	A	37	29	25	22	9	26.1	43.5
4-Aug-05	2	5	6	7	6	3	6	11	24	28	40	44	45	47	47	49	48	A	44	41	30	38	27	35	27.6	48.9
5-Aug-05	36	37	31	32	32	28	25	33	34	38	39	46	54	59	61	62	A	63	60	51	34	17	20	24	39.9	63.4
6-Aug-05	24	7	20	10	16	3	9	22	32	37	45	52	54	59	62	A	65	60	51	44	28	34	29	26	34.3	65.1
7-Aug-05	24	17	22	26	33	33	27	24	24	33	38	41	40	44	A	46	47	46	44	43	37	36	34	31	34.4	46.9
8-Aug-05	33	31	30	27	26	22	23	22	26	27	28	37	37	A	35	34	33	28	24	22	20	16	13	10	26.3	37.2
9-Aug-05	8	6	6	8	5	10	9	9	8	20	27	33	A	35	35	35	36	34	32	32	28	24	24	28	21.4	35.5
10-Aug-05	25	15	15	19	21	19	16	14	15	17	17	A	18	21	23	23	21	20	20	20	21	N	N	19	19.0	25.4
11-Aug-05	19	18	21	16	13	11	12	16	22	24	A	30	29	31	34	33	34	30	25	23	24	23	16	16	22.6	34.1
12-Aug-05	18	15	19	17	17	15	12	15	17	A	24	22	22	22	23	23	22	19	20	16	14	14	12	7	17.7	23.8
13-Aug-05	4	6	4	5	4	5	6	10	A	20	27	32	34	35	32	35	36	38	33	28	24	21	20	22	20.9	38.4
14-Aug-05	21	17	16	11	8	4	9	A	27	30	30	36	43	49	50	52	50	48	45	41	35	30	29	29	30.8	52.0
15-Aug-05	26	25	23	17	15	9	A	17	25	35	39	43	47	48	48	47	44	44	39	21	20	20	22	20	30.1	48.4
16-Aug-05	19	19	19	19	19	A	16	17	18	19	21	25	29	35	36	36	35	37	35	28	22	20	18	14	24.1	37.0
17-Aug-05	12	13	13	11	A	3	7	11	12	12	13	14	14	15	17	15	12	12	12	12	12	13	11	10	12.0	16.9
18-Aug-05	10	12	7	A	5	4	6	10	14	14	17	25	28	30	30	31	29	27	24	21	18	15	13	14	17.5	31.3
19-Aug-05	14	12	A	10	9	5	6	9	17	21	23	27	33	35	36	35	37	36	39	34	21	15	8	11	21.4	38.6
20-Aug-05	8	A	2	3	3	2	5	11	18	26	33	41	44	47	52	51	50	46	36	24	6	17	12	18	24.1	52.0
21-Aug-05	A	11	13	13	13	12	17	24	29	37	43	46	50	51	51	53	52	51	46	31	27	10	16	A	31.6	52.8
22-Aug-05	28	32	30	18	17	15	16	27	33	37	39	40	41	41	39	39	36	35	34	31	31	28	A	22	30.9	41.0
23-Aug-05	22	27	27	24	22	23	20	26	32	37	40	42	44	44	42	34	29	28	19	C	C	A	A	11	29.7	44.3
24-Aug-05	14	14	A	9	11	12	11	13	16	16	16	27	32	33	31	30	26	27	31	33	34	37	35	31	23.5	36.8
25-Aug-05	30	31	A	29	26	15	10	17	18	25	31	36	42	45	49	49	44	40	27	22	19	13	10	8	27.7	48.9
26-Aug-05	13	A	18	13	12	9	6	11	16	19	24	35	41	40	40	40	40	39	36	30	13	2	7	4	22.0	40.7
27-Aug-05	A	6	9	15	8	10	11	15	21	21	20	30	54	50	48	46	50	49	50	42	24	16	16	A	27.8	53.9
28-Aug-05	19	12	4	11	10	11	6	12	23	35	50	54	57	58	56	52	51	51	43	32	15	24	A	17	30.5	58.0
29-Aug-05	17	16	19	11	18	17	15	13	30	42	50	50	51	51	50	49	49	39	40	36	29	A	28	25	32.3	50.6
30-Aug-05	25	23	28	29	23	16	10	10	11	18	28	25	29	30	35	35	35	32	33	22	A	4	13	16	23.1	34.8
31-Aug-05	12	16	18	13	8	5	8	11	14	16	22	31	36	37	36	42	42	40	39	A	32	19	16	18	23.1	42.3
Hourly Avg	18.8	17.5	17.4	15.8	14.8	12.0	12.1	15.9	21.6	26.5	30.7	35.6	38.3	40.7	41.2	40.4	39.4	38.1	35.3	30.3	24.4	21.2	19.7	19.0		
Hourly Max	36.5	37.1	31.2	31.8	32.9	33.1	27.3	32.8	34.2	41.8	50.2	53.9	57.1	59.3	61.6	62.1	65.1	63.4	60.2	50.9	39.9	38.4	35.2	34.7		

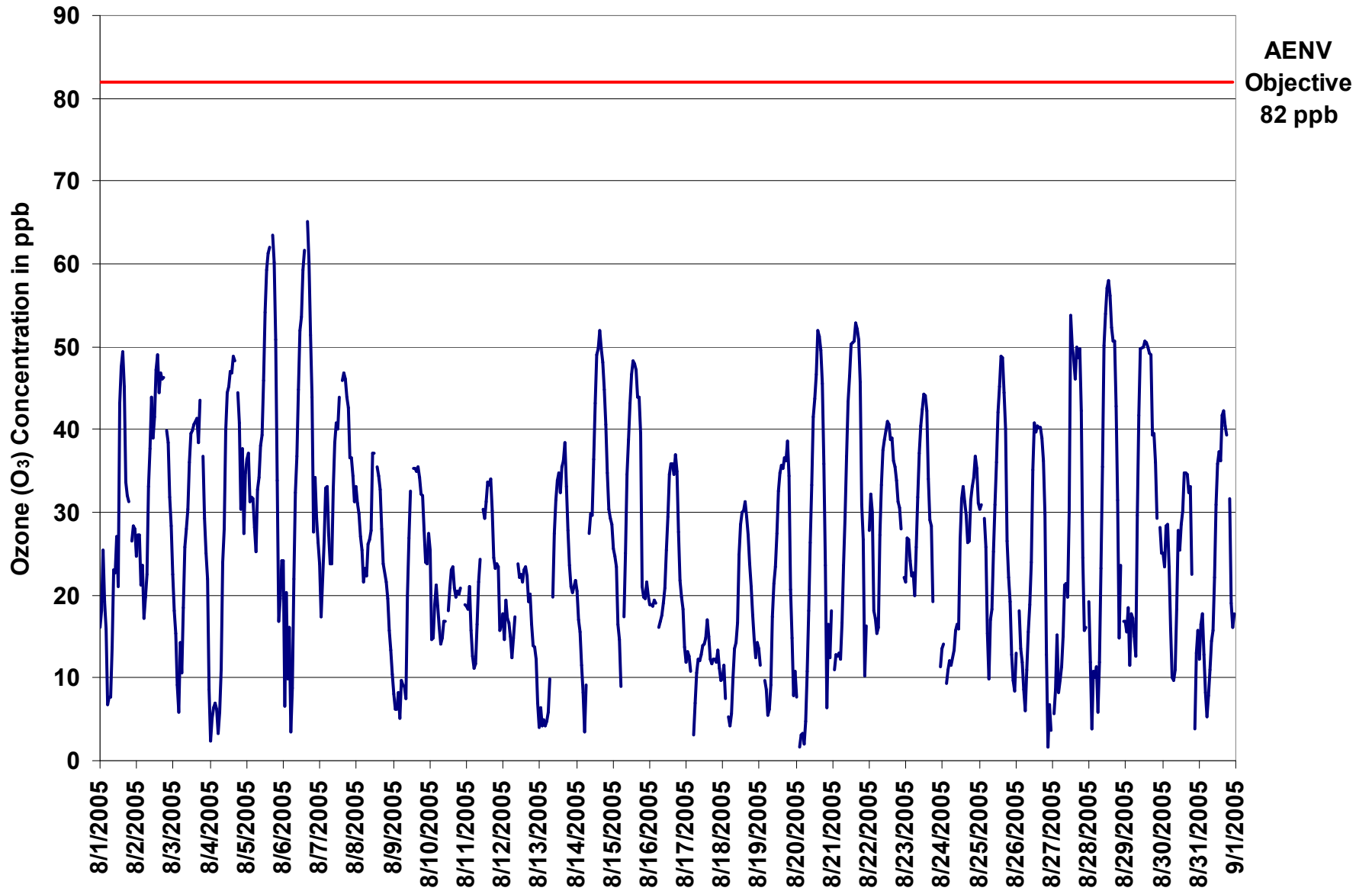


Figure 5. PAS - Cresent Heights Ozone 1-hr Average Monthly Trend



Station: Cresent Heights
 Station Owner: PAS

HOURLY MAXIMUM TABLE

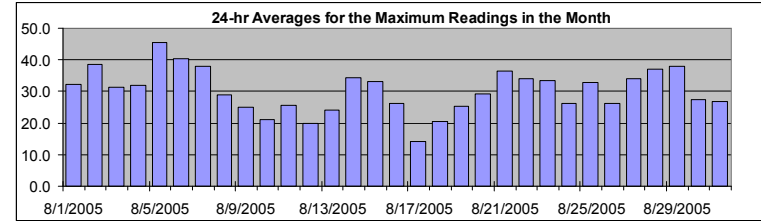
Ozone (O₃)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	68.0	ppb	6-Aug	16:00 17:00
Maximum 24-hr Value:	45.5	ppb	5-Aug	

AIC Time:	34 hrs	Operational Time:	706 hrs					
Calibration Time:	2 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	63.3	53.8	39.6	29.4	19.5	11.3	6.2	30.3 ppb



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																							24-hour Average	Daily Maximum			
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00		
1-Aug-05	26	27	29	23	21	12	12	12	19	30	34	44	32	48	52	51	51	45	41	40	A	31	34	31	31	32.4	51.9	
2-Aug-05	29	35	30	27	26	22	22	26	37	41	47	48	45	51	52	50	50	47	48	A	43	41	38	31	38.6	52.2		
3-Aug-05	29	26	19	16	14	19	16	26	28	30	36	39	42	42	43	44	44	46	A	41	34	33	26	28	31.4	46.0		
4-Aug-05	7	8	11	12	13	8	9	16	28	34	45	46	47	49	51	51	52	A	48	45	39	40	37	38	31.9	51.9		
5-Aug-05	40	39	38	36	35	33	30	36	37	43	43	50	59	62	64	66	A	66	64	60	55	37	25	28	45.5	66.3		
6-Aug-05	28	16	27	16	22	12	17	31	34	42	52	56	59	63	65	A	68	65	58	52	36	44	32	30	40.3	68.0		
7-Aug-05	30	29	28	31	37	40	35	26	31	36	41	42	43	47	A	47	48	48	46	44	40	38	37	33	38.1	48.0		
8-Aug-05	35	33	32	29	28	24	25	25	28	28	34	42	41	A	38	37	34	31	26	24	23	19	16	14	29.0	41.5		
9-Aug-05	16	8	12	11	9	13	13	16	11	26	31	36	A	37	38	37	37	37	34	33	30	29	30	30	24.9	37.6		
10-Aug-05	28	20	18	21	23	21	18	16	17	18	19	A	20	23	25	25	23	22	22	22	23	N	N	21	21.2	28.4		
11-Aug-05	20	22	22	20	20	14	15	20	25	27	A	33	34	34	35	35	36	33	28	26	26	26	20	18	25.7	35.8		
12-Aug-05	20	20	21	19	18	17	14	17	19	A	25	24	24	24	25	25	25	23	23	21	16	16	14	10	19.9	25.3		
13-Aug-05	9	9	6	6	6	7	9	12	A	24	34	35	36	37	38	39	40	41	38	31	29	24	22	24	24.2	40.6		
14-Aug-05	24	22	21	15	13	8	13	A	33	32	33	41	49	53	52	56	54	50	47	44	38	33	31	31	34.5	55.5		
15-Aug-05	28	28	28	20	17	13	A	21	33	37	42	46	49	50	50	50	46	46	44	25	22	22	23	21	33.0	50.4		
16-Aug-05	20	21	20	20	21	A	17	18	19	21	26	28	34	37	38	38	37	39	37	32	23	21	20	17	26.3	38.8		
17-Aug-05	15	15	14	12	A	4	10	13	14	13	14	16	16	17	20	17	14	14	15	16	14	15	13	11	14.1	20.2		
18-Aug-05	11	13	12	A	7	6	11	13	16	17	21	27	31	33	33	33	32	32	25	24	22	18	16	17	20.5	33.0		
19-Aug-05	16	14	A	13	12	9	8	15	22	24	25	32	36	37	37	37	39	39	40	38	34	27	13	14	25.3	40.5		
20-Aug-05	12	A	3	5	7	3	10	15	24	30	40	44	46	51	54	54	52	50	44	42	23	26	16	23	29.3	54.3		
21-Aug-05	A	16	16	16	16	17	23	27	32	41	45	52	53	52	54	54	55	54	51	45	36	22	25	A	36.4	54.9		
22-Aug-05	33	36	33	28	23	21	24	30	36	40	40	41	42	42	42	41	38	37	36	33	32	30	A	26	34.1	42.3		
23-Aug-05	25	30	31	26	24	25	23	30	35	39	42	44	46	46	45	45	37	37	22	C	C	A	A	15	33.4	46.2		
24-Aug-05	16	17	A	14	14	14	14	17	18	20	19	30	34	35	34	32	29	29	34	35	36	39	38	33	26.1	38.9		
25-Aug-05	33	33	A	36	33	19	17	21	24	28	35	40	44	47	52	53	47	43	37	29	30	25	15	14	32.9	53.0		
26-Aug-05	16	A	19	17	15	13	10	15	17	22	29	42	42	42	44	44	43	42	40	35	36	4	12	6	26.3	44.3		
27-Aug-05	A	10	17	19	13	15	15	18	26	28	26	47	59	54	54	49	53	54	56	49	40	22	23	A	33.9	58.7		
28-Aug-05	22	20	14	18	15	16	12	18	28	42	58	57	61	61	62	59	57	57	54	50	23	26	A	21	37.0	61.7		
29-Aug-05	21	23	26	22	30	23	21	25	45	50	53	53	53	53	54	54	52	45	43	38	35	A	30	29	38.0	53.9		
30-Aug-05	29	28	32	32	27	22	14	13	13	25	32	30	31	35	37	37	37	35	36	32	A	13	19	19	27.4	37.3		
31-Aug-05	17	19	20	17	10	8	10	13	18	19	30	39	39	39	42	44	46	45	43	A	35	23	20	21	26.8	45.6		
Hourly Avg	22.5	21.9	21.4	19.9	19.0	16.0	16.3	20.0	25.7	30.3	35.0	40.2	41.6	43.4	44.3	43.6	42.6	41.7	39.4	36.0	31.1	26.5	23.9	22.6				
Hourly Max	39.8	39.0	38.3	35.8	37.0	39.6	35.5	35.9	45.2	50.2	57.7	56.7	61.2	63.4	64.6	65.6	68.0	66.3	64.2	59.9	55.1	43.8	38.4	38.1				

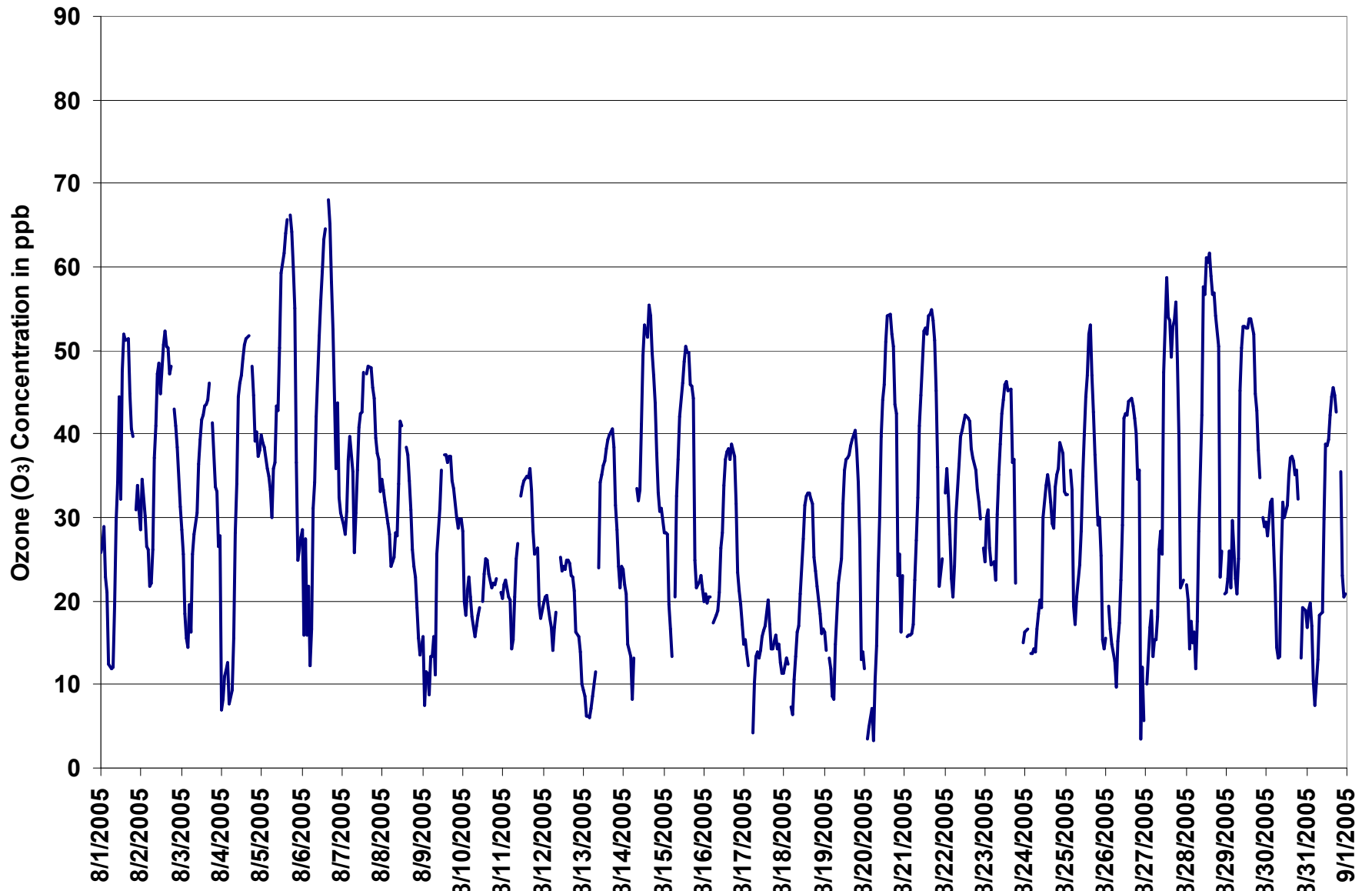
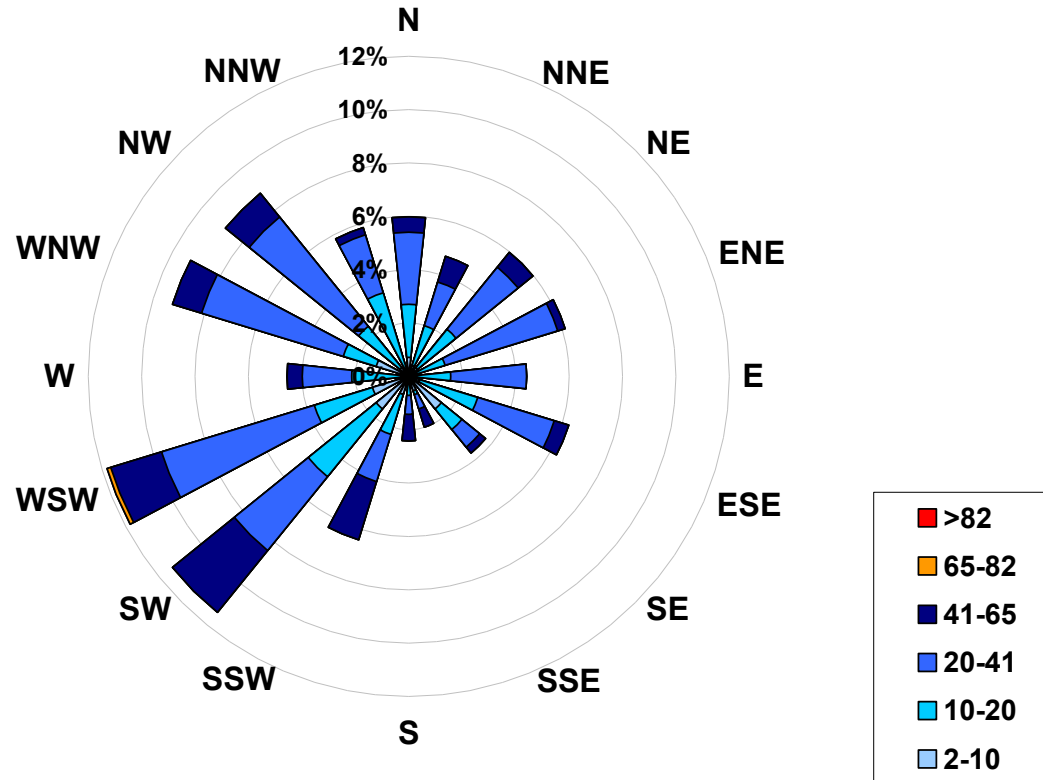


Figure 6. PAS - Crescent Heights Ozone 1-hr Maximum Value Monthly Trend



1-hr Average Concentration Rose for Ozone (in ppb) Located at the Crescent Heights Site for August 2005



Calms: 0%

Frequency Distribution of O ₃ in ppb			
Range		Frequency (hrs)	
2.0	< 10	81	
10	to 20	190	
20	to 41	325	
41	to 65	109	
65	to 82	1	
	> 82	0	
Total Non-Zero Values			706



PAS - Cresent Heights Ozone Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

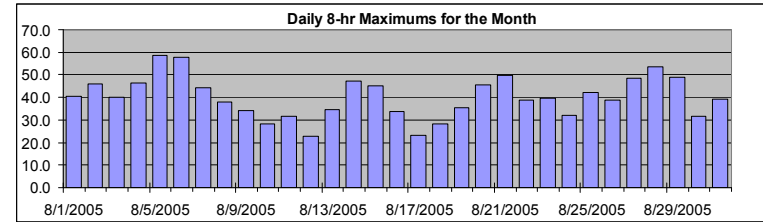
Ozone (O₃)

Station: Cresent Heights
Station Owner: PAS

Monitoring Dates: August 1, 2005 to September 1, 2005

Objective Limit: Alberta Environment: 8-hr 65 ppb
Summary

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	58.7	ppb	5-Aug	19:00	20:00		



Percentile	99	95	75	50	25	5	1
	53.5	45.7	34.1	25.6	16.8	9.8	5.9

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Aug-05	11	12	14	14	14	15	15	15	14	15	15	16	16	21	26	31	35	36	37	38	40	38	35	32		40.3
2-Aug-05	29	28	28	26	26	25	24	23	24	25	27	30	32	36	39	42	44	45	45	46	46	44	42	40		45.9
3-Aug-05	36	32	28	25	21	18	16	14	15	16	18	21	25	29	32	35	37	39	40	40	39	36	34	29		40.0
4-Aug-05	24	18	17	13	10	8	6	6	9	11	16	20	25	31	36	41	44	46	46	46	44	43	40	38		46.5
5-Aug-05	36	36	34	33	34	32	32	32	32	32	33	34	37	41	46	49	51	55	58	59	56	50	44	38		58.7
6-Aug-05	37	30	25	19	17	16	14	14	15	19	22	27	32	39	45	49	53	57	58	56	53	49	45	42		57.6
7-Aug-05	37	32	28	26	27	26	26	26	26	28	30	32	33	34	35	38	41	43	44	44	44	43	42	40		44.2
8-Aug-05	38	36	34	32	31	29	28	27	26	25	25	26	28	29	30	32	33	33	33	30	28	26	24	21		38.0
9-Aug-05	18	15	13	11	9	8	8	8	8	9	12	15	16	20	24	27	31	34	34	34	33	32	31	30		34.3
10-Aug-05	28	26	24	22	21	21	20	18	17	17	17	17	17	17	18	19	20	20	21	21	21	21	N	N		28.4
11-Aug-05	N	N	N	N	N	17	16	16	16	17	16	18	21	24	27	29	31	32	31	30	29	28	26	24		31.7
12-Aug-05	22	20	19	19	18	17	16	16	16	16	17	17	18	19	21	22	23	22	22	21	20	19	18	16		22.7
13-Aug-05	13	12	10	8	7	6	5	6	6	8	11	15	19	23	27	31	31	34	34	34	33	31	29	28		34.4
14-Aug-05	26	23	21	19	17	15	13	12	13	15	17	21	26	32	38	40	42	45	47	47	46	44	41	38		47.2
15-Aug-05	35	32	30	27	24	21	20	19	19	20	22	26	31	36	38	41	44	45	45	42	39	35	32	29		45.1
16-Aug-05	26	22	20	20	20	19	19	18	18	18	18	19	21	22	25	27	29	32	33	34	33	31	29	26		33.8
17-Aug-05	23	20	17	15	14	12	10	10	10	10	10	11	12	13	14	14	14	14	14	14	13	13	12	12		23.1
18-Aug-05	12	11	11	11	10	8	8	8	8	9	10	12	15	18	21	24	26	27	28	28	26	24	22	20		28.2
19-Aug-05	18	16	15	13	12	11	10	9	10	11	13	15	18	22	25	28	31	33	35	35	34	32	28	25		35.5
20-Aug-05	21	19	14	10	7	5	5	5	6	9	13	17	23	28	34	39	43	45	46	44	39	35	30	26		45.7
21-Aug-05	23	18	14	13	14	13	14	15	16	20	23	28	32	37	41	45	48	50	50	48	45	40	36	33		49.9
22-Aug-05	30	27	25	23	22	22	22	23	24	24	25	28	31	34	37	39	39	39	38	37	36	34	33	31		38.9
23-Aug-05	29	28	27	26	25	24	23	24	25	26	28	30	33	36	39	40	39	38	35	34	N	N	N	N		39.6
24-Aug-05	N	N	N	N	N	N	12	12	12	13	13	15	18	21	23	25	26	28	30	30	31	31	32	32		31.8
25-Aug-05	32	33	33	33	31	28	25	23	21	20	21	22	24	28	33	37	40	42	41	40	37	33	28	23		42.0
26-Aug-05	19	16	15	14	12	12	11	12	12	13	14	16	20	24	28	32	35	37	39	38	35	30	26	21		39.0
27-Aug-05	19	14	10	8	7	8	9	11	12	14	15	17	23	28	32	36	40	43	47	49	45	41	37	35		48.7
28-Aug-05	31	26	19	15	12	12	10	11	11	14	20	25	31	37	43	48	52	54	53	50	45	40	38	33		53.6
29-Aug-05	28	23	20	17	17	16	16	16	17	20	24	29	33	37	42	46	49	49	47	46	43	42	39	35		48.9
30-Aug-05	32	29	28	27	26	25	22	21	19	18	18	18	20	23	26	29	31	32	31	32	28	25	22		31.8	
31-Aug-05	19	17	14	13	12	13	12	11	12	12	12	14	18	22	25	29	33	36	38	39	38	36	33	30		39.0

Hourly Max	38.0	36.2	34.5	33.3	33.5	32.3	32.1	31.8	31.5	31.7	32.7	34.4	37.2	41.1	45.6	49.3	53.3	56.7	58.0	58.7	55.8	49.8	44.5	42.2
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PAS - Cresent Heights Carbon Monoxide Monthly Summary

HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

Station: Cresent Heights
 Station Owner: PAS

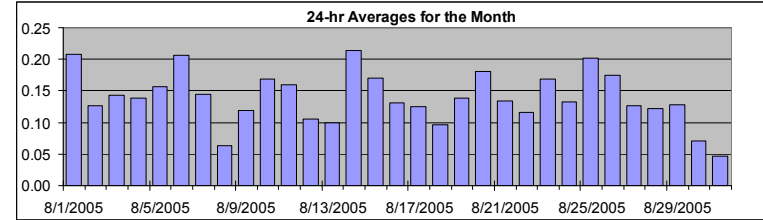
Monitoring Dates: August 1, 2005 to September 1, 2005

Objective Limit: Alberta Environment: 1-hr 13 ppm 24-hr na ppm

Summary

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	0.7	ppm	26-Aug	21:00 22:00
Maximum 24-hr Value:	0.2	ppm	14-Aug	

AIC Time:	33 hrs	Operational Time:	705 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.1 ppm



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Aug-05	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.3	0.4	0.5	0.3	0.2	0.1	0.2	0.2	0.2	0.2	A	0.2	0.1	0.1	0.21	0.46
2-Aug-05	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.13	0.18	
3-Aug-05	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.2	0.3	0.3	0.14	0.32	
4-Aug-05	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.2	0.1	0.1	0.1	0.14	0.33	
5-Aug-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	A	0.1	0.2	0.3	0.4	0.4	0.2	0.2	0.16	0.44
6-Aug-05	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.1	0.2	0.2	0.5	0.2	0.2	0.1	0.21	0.52
7-Aug-05	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	A	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.14	0.19
8-Aug-05	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	A	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.06	0.10
9-Aug-05	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.12	0.23
10-Aug-05	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	N	N	0.2	0.17	0.23
11-Aug-05	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.16	0.21
12-Aug-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10	0.14
13-Aug-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.10	0.19
14-Aug-05	0.1	0.1	0.1	0.1	0.2	0.2	0.2	A	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.21	0.30
15-Aug-05	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.17	0.23
16-Aug-05	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.13	0.19
17-Aug-05	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.12	0.16
18-Aug-05	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10	0.15
19-Aug-05	0.1	0.1	A	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.3	0.3	0.2	0.1	0.14	0.28
20-Aug-05	0.1	A	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.6	0.3	0.3	0.2	0.18	0.62
21-Aug-05	A	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.2	A	0.13	0.41
22-Aug-05	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	A	0.1	0.12	0.20
23-Aug-05	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	C	0.2	0.2	0.2	0.2	0.17	0.21
24-Aug-05	0.2	0.2	A	0.1	0.1	0.2	0.2	0.2	C	C	C	A	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.13	0.20
25-Aug-05	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.20	0.26	
26-Aug-05	0.1	A	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.6	0.7	0.3	0.2	0.17	0.73
27-Aug-05	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	A	0.13	0.22	
28-Aug-05	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	A	0.1	0.12	0.22
29-Aug-05	0.0	0.1	0.1	0.1	0.1	0.1	0.4	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	A	0.1	0.0	0.13	0.39
30-Aug-05	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	A	0.2	0.1	0.0	0.07	0.33
31-Aug-05	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	A	0.1	0.1	0.1	0.1	0.05	0.12
Hourly Avg	0.12	0.11	0.11	0.12	0.12	0.14	0.17	0.16	0.14	0.13	0.13	0.12	0.13	0.12	0.12	0.12	0.12	0.13	0.15	0.18	0.21	0.20	0.15	0.13		
Hourly Max	0.19	0.19	0.20	0.22	0.21	0.25	0.39	0.36	0.28	0.26	0.29	0.36	0.46	0.26	0.23	0.23	0.21	0.23	0.28	0.42	0.62	0.73	0.30	0.32		

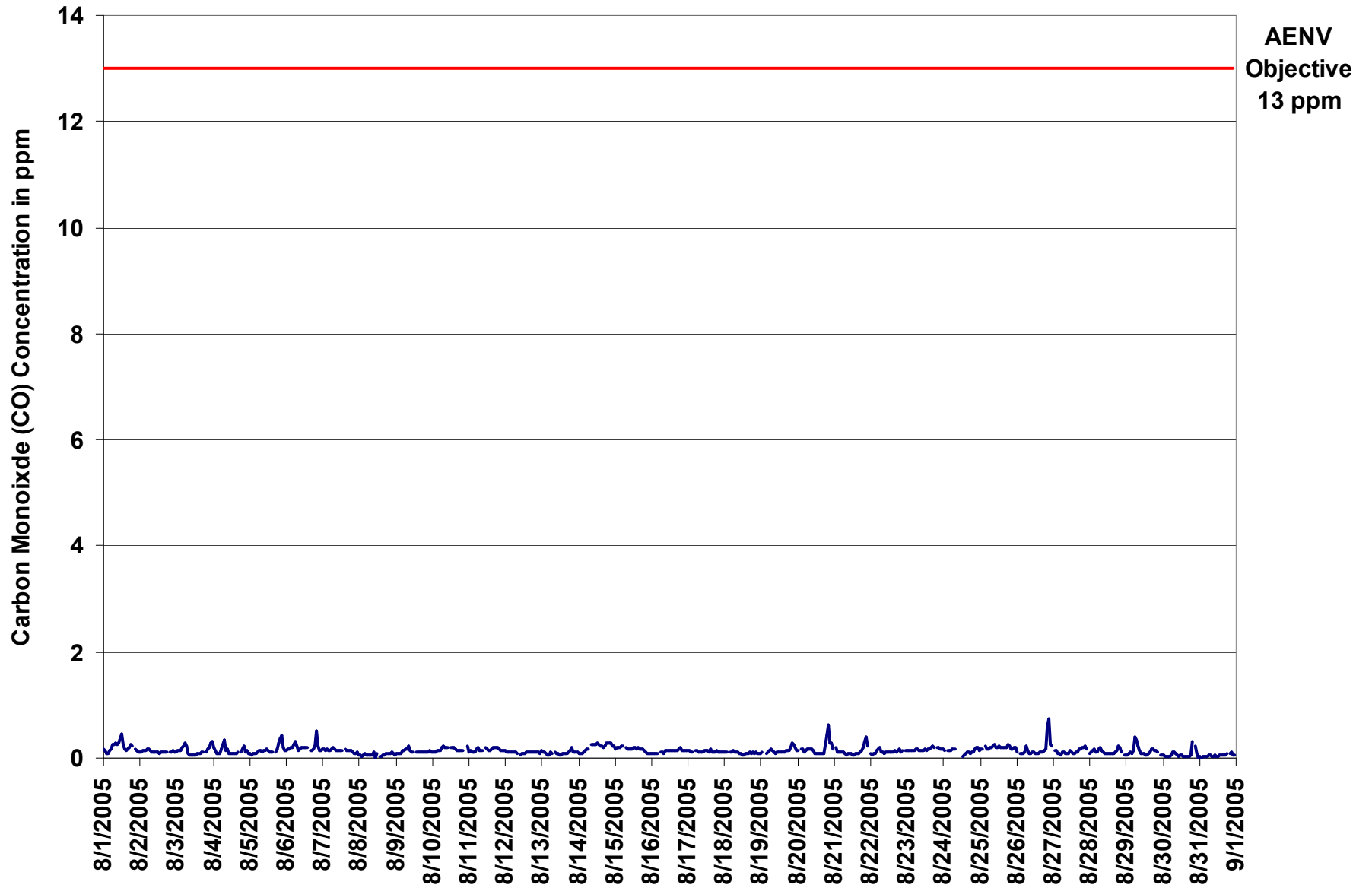


Figure 7. PAS - Cresent Heights Carbon Monoxide 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

HOURLY MAXIMUM TABLE

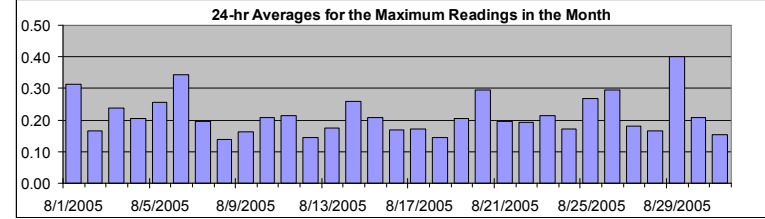
Carbon Monoxide (CO)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	3.4	ppm	29-Aug	6:00 7:00
Maximum 24-hr Value:	0.4	ppm	29-Aug	

AIC Time:	33 hrs	Operational Time:	705 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	0.9	0.5	0.2	0.2	0.1	0.1	0.1	0.2 ppm



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
1-Aug-05	0.2	0.2	0.1	0.1	0.2	0.2	0.4	0.3	0.4	0.4	0.5	0.5	0.6	0.4	0.3	0.2	0.3	0.3	0.3	0.6	A	0.2	0.2	0.1	0.1	0.31	0.59
2-Aug-05	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.2	A	0.2	0.2	0.2	0.2	0.17	0.27	
3-Aug-05	0.2	0.2	0.2	0.2	0.2	0.6	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.1	A	0.2	0.3	0.5	0.4	0.4	0.24	0.56	
4-Aug-05	0.3	0.2	0.1	0.1	0.1	0.2	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	A	0.2	0.4	0.4	0.2	0.2	0.1	0.20	0.40	
5-Aug-05	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.1	0.2	0.2	A	0.3	0.3	0.9	0.6	0.7	0.3	0.2	0.25	0.86	
6-Aug-05	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.5	2.1	0.6	0.2	0.2	0.34	2.13	
7-Aug-05	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.3	0.20	0.35	
8-Aug-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6	0.1	0.6	A	0.2	0.0	0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.14	0.59	
9-Aug-05	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.3	0.2	0.1	0.1	A	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.16	0.34	
10-Aug-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	A	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N	N	0.4	0.21	0.40	
11-Aug-05	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.21	0.30	
12-Aug-05	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	A	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.1	0.2	0.2	0.14	0.25	
13-Aug-05	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.1	A	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.8	0.2	0.1	0.2	0.18	0.79	
14-Aug-05	0.1	0.1	0.1	0.2	0.2	0.4	0.3	A	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.26	0.40	
15-Aug-05	0.2	0.2	0.2	0.2	0.3	0.3	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.21	0.30	
16-Aug-05	0.1	0.1	0.1	0.1	0.1	A	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.17	0.29	
17-Aug-05	0.1	0.1	0.1	0.1	A	0.1	0.2	0.2	0.1	0.2	0.1	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.2	0.1	0.17	0.31	
18-Aug-05	0.1	0.1	0.3	A	0.1	0.2	0.3	0.2	0.2	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.15	0.30	
19-Aug-05	0.1	0.2	A	0.1	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.3	0.2	0.3	0.6	0.4	0.3	0.2	0.21	0.56	
20-Aug-05	0.2	A	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.8	0.8	0.9	0.7	0.5	0.3	0.30	0.92	
21-Aug-05	A	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.4	A	0.20	0.64	
22-Aug-05	0.1	0.1	0.4	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.4	0.2	0.2	A	0.2	0.19	0.37	
23-Aug-05	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	C	0.3	0.2	0.2	0.2	0.21	0.30	
24-Aug-05	0.2	0.2	A	0.1	0.1	0.2	0.2	0.2	C	C	C	A	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.17	0.23	
25-Aug-05	0.2	0.2	A	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.5	0.3	0.2	0.2	0.5	0.3	0.27	0.54	
26-Aug-05	0.1	A	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	1.4	1.1	0.7	0.3	0.29	1.36	
27-Aug-05	A	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.3	0.4	0.2	A	0.18	0.40	
28-Aug-05	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.3	0.2	A	0.1	0.17	0.35	
29-Aug-05	0.1	0.1	0.9	0.2	0.3	0.5	3.4	0.8	0.6	0.4	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	A	0.1	0.1	0.40	3.42		
30-Aug-05	0.1	0.0	0.0	0.0	0.1	0.1	0.3	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	1.6	A	0.5	0.2	0.1	0.21	1.63	
31-Aug-05	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.6	0.1	0.0	0.2	0.1	0.1	0.4	0.1	0.2	0.1	0.2	0.1	A	0.2	0.3	0.1	0.1	0.15	0.60	
Hourly Avg	0.16	0.16	0.19	0.15	0.16	0.22	0.35	0.25	0.21	0.19	0.19	0.18	0.19	0.17	0.16	0.17	0.18	0.20	0.23	0.34	0.39	0.31	0.24	0.18			
Hourly Max	0.30	0.35	0.92	0.27	0.31	0.56	3.42	0.75	0.57	0.41	0.58	0.49	0.59	0.44	0.29	0.29	0.35	0.34	0.81	1.63	2.13	1.05	0.74	0.40			

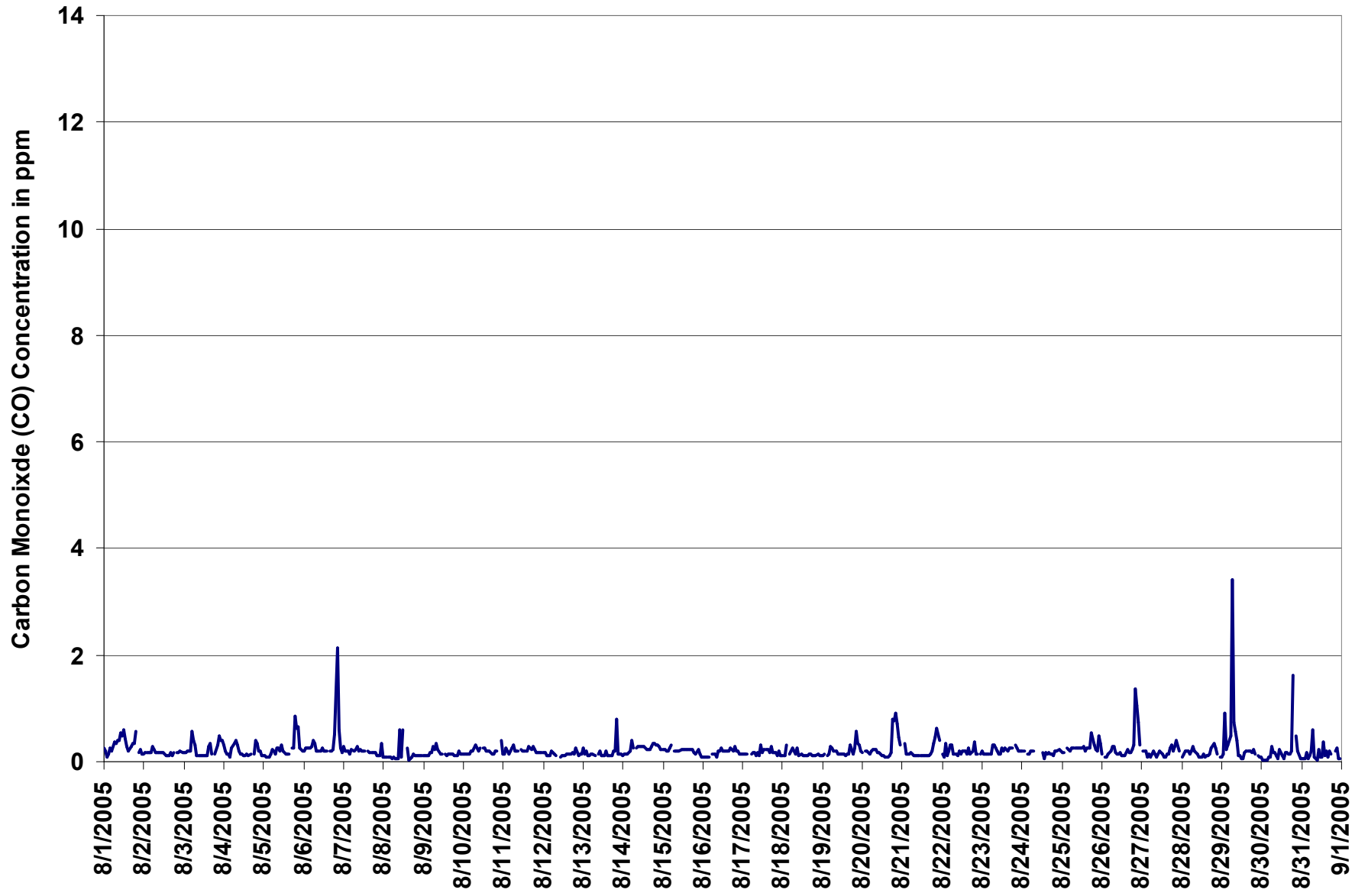
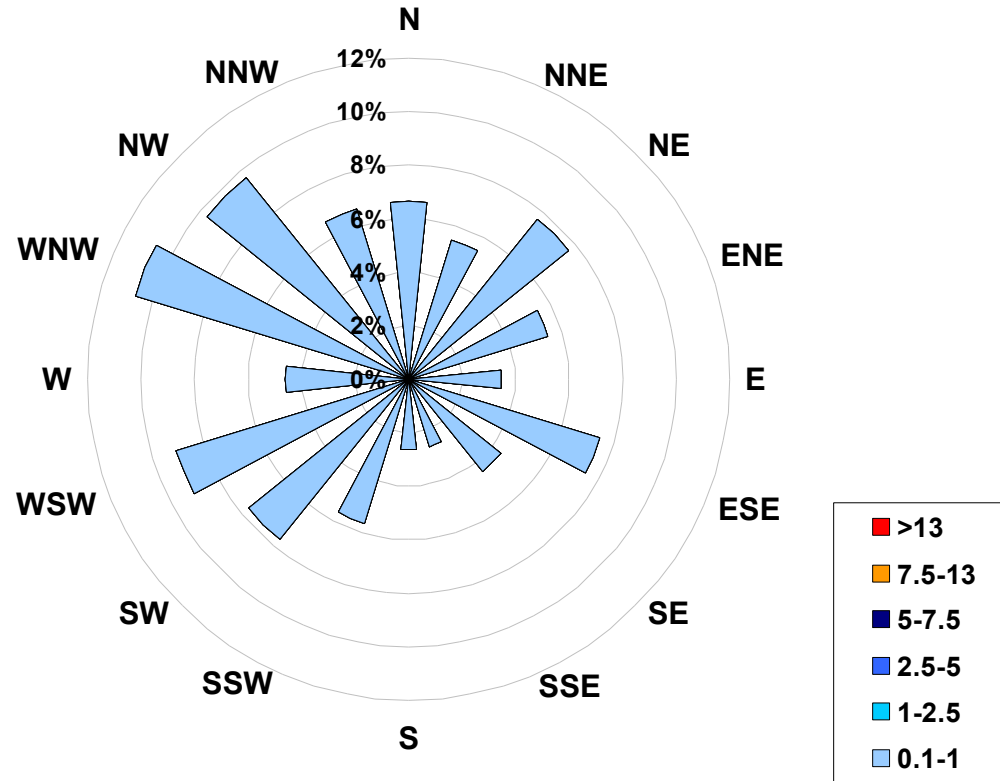


Figure 8. PAS - Cresent Heights Carbon Monoxide 1-hr Maximum Value Monthly Trend



1-hr Average Concentration Rose for Carbon Monoxide (in ppm) Located at the Crescent Heights Site for August 2005



Calms: 0%

Frequency Distribution of CO in ppm			Frequency (hrs)
Range			
0.1	<	1	705
1	to	2.5	0
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
	>	13	0
Total Non-Zero Values			705



PAS - Crescent Heights Carbon Monoxide Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

Carbon Monoxide (CO)

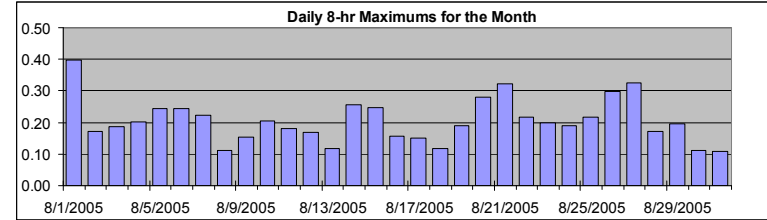
Station: Crescent Heights
 Station Owner: PAS

Monitoring Dates: August 1, 2005 to September 1, 2005

Objective Limit: Alberta Environment: 8-hr 5 ppm

Summary

Number of 8-hr Exceedances:	0		
Maximum 8-hr Average:	0.4 ppm	1-Aug	0:00 1:00



Percentile	99	95	75	50	25	5	1
	0.3	0.2	0.2	0.1	0.1	0.1	0.0

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Aug-05	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.40
2-Aug-05	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.17
3-Aug-05	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.19	
4-Aug-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.20
5-Aug-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.24	
6-Aug-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24	
7-Aug-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.22	
8-Aug-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.11	
9-Aug-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15	
10-Aug-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N	N	0.21	
11-Aug-05	N	N	N	N	N	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18	
12-Aug-05	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.17	
13-Aug-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.12	
14-Aug-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.26	
15-Aug-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.25	
16-Aug-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.16	
17-Aug-05	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15	
18-Aug-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.12	
19-Aug-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.19	
20-Aug-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.28	
21-Aug-05	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.32	
22-Aug-05	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.22	
23-Aug-05	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	
24-Aug-05	0.2	0.2	N	0.2	0.2	0.2	0.2	0.2	N	N	N	N	N	N	N	N	N	N	0.1	0.1	0.1	0.1	0.1	0.1	0.19	
25-Aug-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	
26-Aug-05	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.30	
27-Aug-05	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.32	
28-Aug-05	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.17	
29-Aug-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.19	
30-Aug-05	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.11	
31-Aug-05	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.11	

Hourly Max	0.40	0.37	0.33	0.31	0.29	0.22	0.20	0.21	0.21	0.21	0.22	0.25	0.29	0.30	0.29	0.27	0.26	0.25	0.25	0.25	0.25	0.26	0.28	0.30
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PAS - Crescent Heights Total Hydrocarbons Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

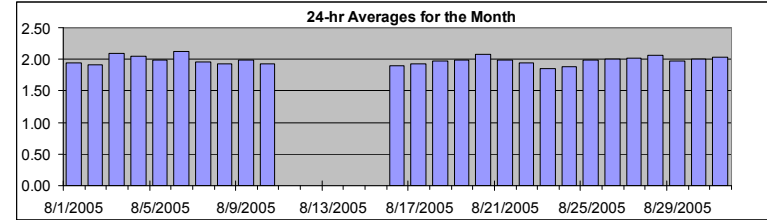
HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)

Monitoring Dates: August 1, 2005 to September 1, 2005

Objective Limit: Alberta Environment: 1-hr na ppm 24-hr na ppm
 Summary

Maximum 1-hr Average:	2.6	ppm	3-Aug	21:00 22:00
Maximum 24-hr Value:	2.1	ppm	6-Aug	



AIC Time:	27 hrs	Operational Time:	595 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	84.1%
Percentile	99	95	75
	2.4	2.3	2.0
	1.9	1.9	1.8
	1.8	1.8	1.8
	1	Average	
	2.0	ppm	

Status Flag Characters			
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00	0:00
1-Aug-05	Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Aug-05		2.0	2.3	1.8	1.9	2.1	2.1	2.1	2.3	2.1	2.0	2.0	1.9	1.9	1.8	1.8	1.7	1.8	1.8	1.8	1.8	A	1.9	1.8	1.8	1.94	2.30	
2-Aug-05		1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	A	1.9	2.0	2.1	2.0	1.91	2.09	
3-Aug-05		2.1	2.1	2.2	2.2	2.4	2.3	2.2	2.2	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	2.0	2.6	2.5	2.4	2.10	2.56	
4-Aug-05		2.3	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	2.0	1.9	2.0	1.9	2.05	2.32	
5-Aug-05		1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.1	2.1	1.9	1.9	1.9	A	1.9	1.9	2.0	2.1	2.2	2.1	2.0	1.98	2.22	
6-Aug-05		2.0	2.1	2.1	2.2	2.3	2.5	2.4	2.2	2.1	2.1	2.2	2.2	2.2	2.1	A	2.0	1.9	1.9	2.0	2.2	2.1	1.9	1.9	2.12	2.54		
7-Aug-05		2.0	2.0	2.0	2.1	1.9	1.9	2.0	2.1	2.1	2.0	1.9	1.9	1.9	2.0	A	2.0	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.96	2.12		
8-Aug-05		1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	A	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.0	1.92	2.03		
9-Aug-05		2.0	2.1	2.1	2.1	2.2	2.4	2.3	2.2	2.2	2.1	1.9	1.8	A	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.8	1.9	1.99	2.35	
10-Aug-05		1.9	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	N	N	N	1.93	2.06	
11-Aug-05		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.00	0.00
12-Aug-05		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.00	0.00
13-Aug-05		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.00	0.00
14-Aug-05		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.00	0.00
15-Aug-05		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	N	1.90	1.90
16-Aug-05		1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.89	1.94	
17-Aug-05		1.9	1.9	1.9	2.0	A	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.1	1.93	2.05		
18-Aug-05		2.1	2.1	2.1	A	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.97	2.13	
19-Aug-05		2.0	2.0	A	2.0	2.0	2.0	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.2	2.1	2.1	2.1	1.99	2.17	
20-Aug-05		2.2	A	2.2	2.2	2.3	2.3	2.4	2.3	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.2	2.2	2.2	2.08	2.37	
21-Aug-05		A	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.2	2.1	A	1.99	2.17	
22-Aug-05		2.0	1.9	1.9	2.0	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	1.94	2.12	
23-Aug-05		2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	N	N	N	1.6	1.7	1.8	C	2.0	2.0	2.0	1.9	1.85	2.03		
24-Aug-05		1.9	1.8	N	1.8	1.8	1.8	1.8	1.7	1.7	1.7	C	C	C	A	2.3	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.88	2.26	
25-Aug-05		1.9	1.9	A	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.1	2.1	2.2	1.99	2.18		
26-Aug-05		2.1	A	2.0	2.0	2.0	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.2	2.4	2.1	2.1	2.00	2.36	
27-Aug-05		A	2.1	2.1	2.0	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	1.9	2.0	1.9	1.9	1.9	2.0	2.0	2.1	2.1	A	2.02	2.15		
28-Aug-05		2.1	2.1	2.1	2.3	2.4	2.3	2.5	2.3	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2	2.1	2.0	2.0	A	2.0	2.06	2.48	
29-Aug-05		1.9	2.0	2.0	2.3	2.4	2.4	2.3	2.4	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.0	1.9	A	1.9	1.9	1.98	2.40	
30-Aug-05		1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.0	1.9	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.1	A	2.2	2.2	2.0	2.00	2.23	
31-Aug-05		2.1	2.0	2.0	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	A	2.1	2.1	2.0	2.0	2.04	2.18	
Hourly Avg		1.99	2.02	N	2.04	2.08	2.10	2.09	2.07	1.99	1.96	1.94	1.93	1.92	N	1.91	1.89	1.88	1.88	1.92	1.95	1.99	2.05	2.03	2.00			
Hourly Max		2.30	2.30	2.20	2.32	2.43	2.54	2.48	2.37	2.22	2.11	2.15	2.18	2.19	2.18	2.26	1.99	1.97	1.98	2.22	2.13	2.19	2.56	2.46	2.39			

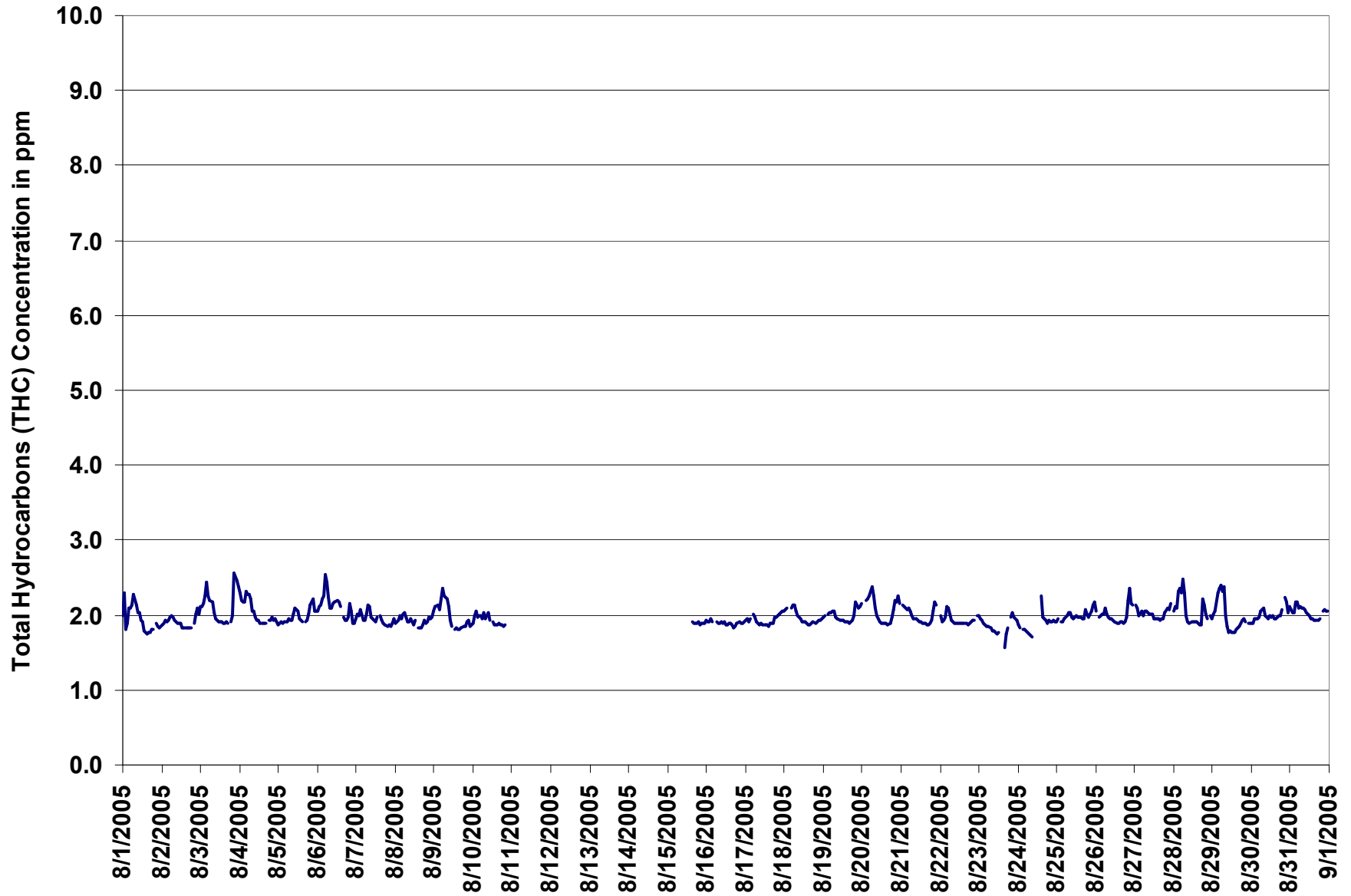


Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend



Station: Cresent Heights
 Station Owner: PAS

HOURLY MAXIMUM TABLE

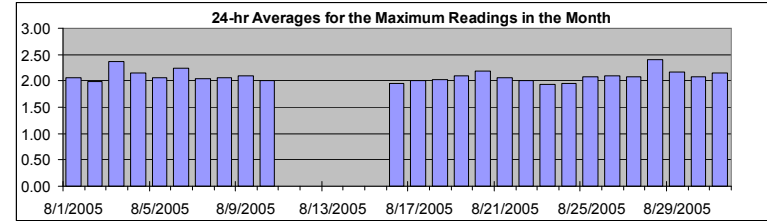
Total Hydrocarbons (THC)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	8.1	ppm	28-Aug	18:00 19:00
Maximum 24-hr Value:	2.4	ppm	28-Aug	

AIC Time:	27 hrs	Operational Time:	595 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	84.1%					
Percentile	99	95	75	50	25	5	1	Average
	2.8	2.5	2.1	2.0	1.9	1.9	1.8	2.1 ppm



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Aug-05	2.4	2.7	1.8	2.1	2.2	2.2	2.2	2.4	2.3	2.1	2.3	2.1	2.0	1.9	1.8	1.8	1.8	1.9	1.9	A	2.0	1.9	1.8	2.06	2.73		
2-Aug-05	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.3	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	2.2	2.3	2.1	1.99	2.33	
3-Aug-05	2.2	2.2	2.3	2.3	2.7	2.4	2.2	2.3	2.1	2.0	2.1	2.0	2.0	1.9	1.9	1.9	1.9	A	2.0	2.3	6.6	2.7	2.5	2.37	6.63		
4-Aug-05	2.4	2.3	2.2	2.2	3.0	2.8	2.3	2.3	2.2	2.1	2.0	2.0	2.0	1.9	1.9	1.9	A	2.0	2.0	2.0	2.0	2.1	1.9	2.15	2.99		
5-Aug-05	1.9	1.9	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	1.9	A	2.0	2.0	2.2	2.4	2.3	2.1	2.1	2.05	2.35	
6-Aug-05	2.1	2.2	2.2	2.3	2.5	2.8	2.5	2.5	2.3	2.1	2.2	2.2	2.2	2.2	2.2	A	2.1	2.0	2.0	2.2	2.8	2.3	2.0	1.9	2.25	2.78	
7-Aug-05	2.0	2.1	2.1	2.2	2.0	2.0	2.1	2.2	2.2	2.0	2.0	2.0	2.0	2.0	A	2.3	2.1	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.04	2.35	
8-Aug-05	1.9	2.0	1.9	2.1	2.0	2.1	2.1	2.0	2.0	2.0	2.4	2.0	2.7	A	2.1	1.9	1.9	2.0	2.1	2.0	2.0	2.1	2.0	2.1	2.06	2.70	
9-Aug-05	2.1	2.3	2.3	2.1	2.5	2.6	2.4	2.3	2.3	2.3	2.1	1.9	A	1.8	1.9	1.8	1.8	1.9	1.9	1.9	2.0	2.0	1.9	1.9	2.09	2.59	
10-Aug-05	2.0	2.1	2.2	2.1	2.1	2.1	2.0	2.2	2.0	2.2	2.0	A	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	N	N	N	2.01	2.20		
11-Aug-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.00	0.00
12-Aug-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.00	0.00
13-Aug-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.00	0.00
14-Aug-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.00	0.00
15-Aug-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	2.0	1.9	1.9	1.9	2.0	1.9	2.0	1.9	2.0	N	1.98	1.98
16-Aug-05	2.0	2.0	2.0	2.0	2.0	A	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	1.95	2.03	
17-Aug-05	2.0	2.1	2.1	2.0	A	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.00	2.16	
18-Aug-05	2.1	2.1	2.2	A	2.2	2.2	2.2	2.2	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	2.0	2.0	2.03	2.23	
19-Aug-05	2.1	2.1	A	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.1	2.7	2.2	2.2	2.3	2.09	2.71		
20-Aug-05	2.3	A	2.3	2.3	2.4	2.5	2.5	2.3	2.2	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.1	2.3	2.3	2.4	2.5	2.19	2.49		
21-Aug-05	A	2.2	2.1	2.2	2.1	2.2	2.1	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	1.9	1.9	1.9	2.1	2.2	2.3	2.2	A	2.06	2.31		
22-Aug-05	2.1	2.0	2.0	2.1	2.2	2.2	2.1	2.0	2.0	2.0	1.9	1.9	1.9	2.0	1.9	1.9	2.0	1.9	2.0	2.0	2.0	A	2.1	2.00	2.17		
23-Aug-05	2.1	2.1	2.2	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	N	N	N	1.8	1.9	1.9	C	2.1	2.1	2.0	2.0	1.94	2.18	
24-Aug-05	1.9	1.9	N	1.9	1.8	1.8	1.8	1.8	2.4	1.7	C	C	C	A	2.3	2.0	2.0	2.0	1.9	2.0	1.9	1.9	2.0	1.9	1.95	2.41	
25-Aug-05	2.0	2.0	A	2.0	1.9	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.4	2.2	2.0	2.1	2.2	2.5	2.07	2.47	
26-Aug-05	2.1	A	2.0	2.0	2.0	2.1	2.2	2.1	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.0	1.9	2.0	2.0	2.6	2.6	2.4	2.2	2.09	2.62	
27-Aug-05	A	2.3	2.2	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.2	A	2.08	2.28	
28-Aug-05	2.1	2.2	2.2	2.5	2.5	2.4	2.6	2.6	2.1	1.9	1.9	2.0	2.1	2.0	2.0	1.9	1.9	1.9	8.1	2.4	2.1	2.0	A	2.0	2.41	8.11	
29-Aug-05	2.1	2.2	2.2	2.5	2.6	2.6	3.9	2.9	2.3	2.0	1.8	1.8	1.8	1.9	1.8	1.9	1.9	1.9	2.0	2.0	A	1.9	1.9	2.17	3.90		
30-Aug-05	2.0	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.3	A	2.6	2.4	2.1	2.08	2.62	
31-Aug-05	2.2	2.1	2.1	2.3	2.3	2.2	2.2	2.2	2.1	2.1	2.1	2.3	2.4	2.0	2.0	2.0	2.0	2.0	2.0	A	2.3	2.3	2.1	2.1	2.14	2.44	
Hourly Avg	2.09	2.11	N	2.13	2.20	2.21	2.22	2.18	2.10	2.02	2.03	1.99	2.03	N	1.96	1.95	1.94	1.94	2.22	2.05	2.14	2.33	2.13	2.09			
Hourly Max	2.39	2.73	2.29	2.54	2.99	2.79	3.90	2.91	2.41	2.28	2.45	2.25	2.70	2.24	2.31	2.35	2.07	2.03	8.11	2.41	2.77	6.63	2.74	2.50			

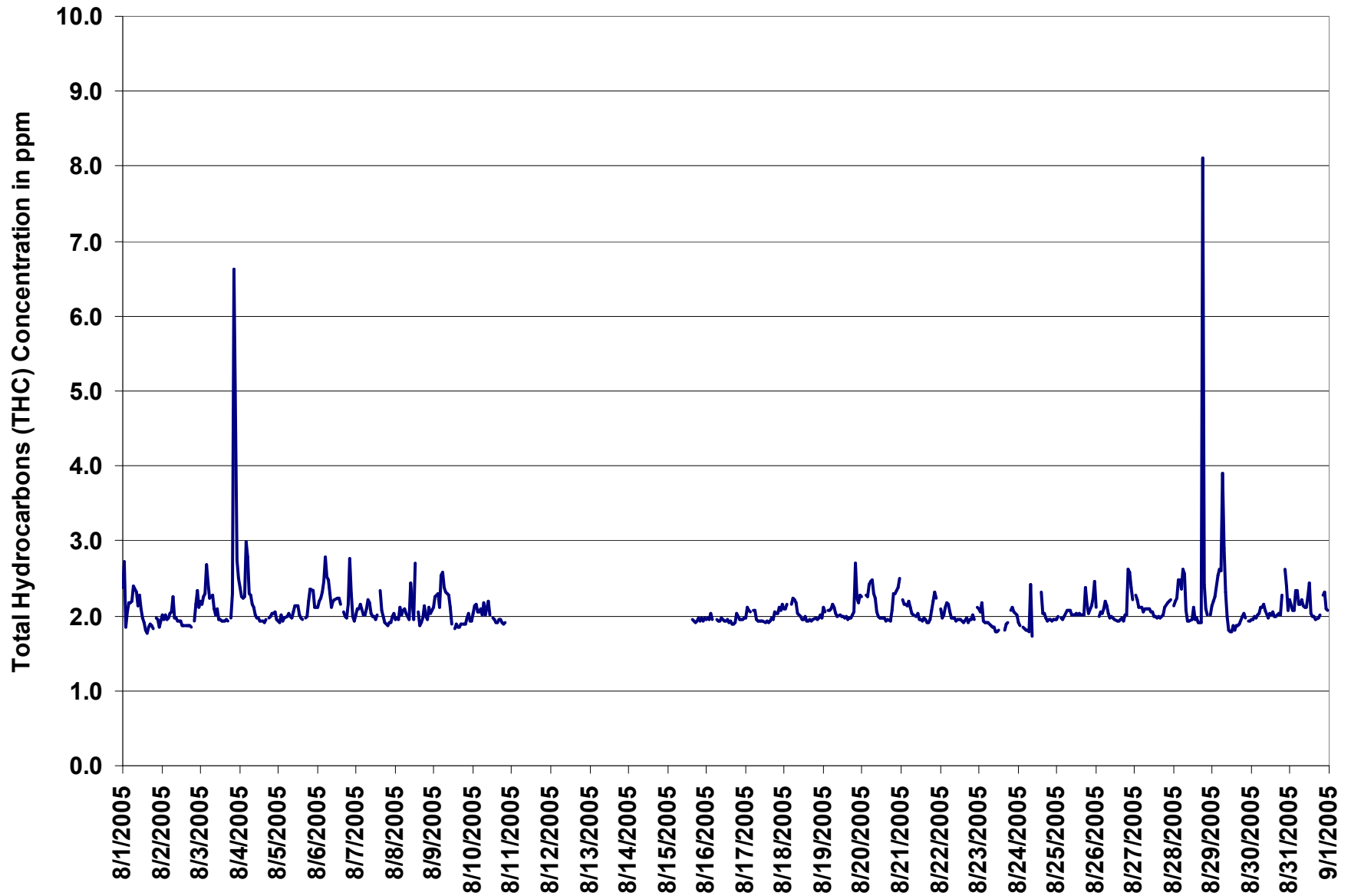
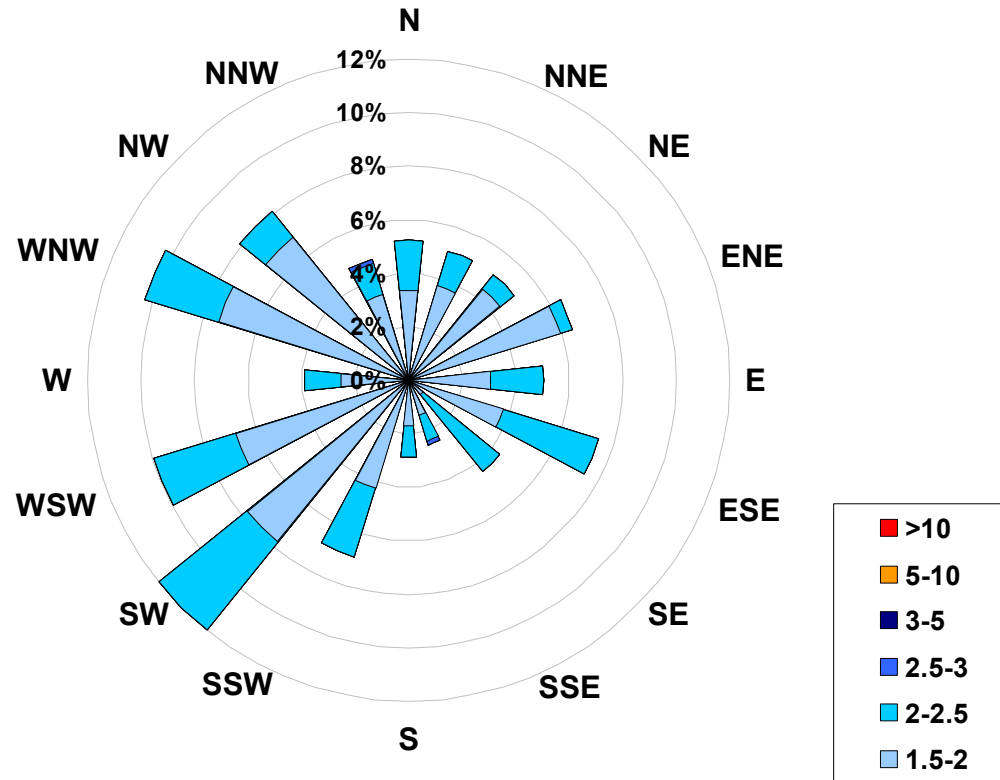


Figure 10. PAS - Crescent Heights Total Hydrocarbons 1-hr Maximum Value Monthly Trend



**1-hr Average Concentration Rose for Total Hydrocarbons (in ppm)
Located at the Crescent Heights Site for August 2005**



Calms: 0%

Frequency Distribution of THC in ppm		Frequency (hrs)
Range		
1.5	< 2	396
2	to 2.5	197
2.5	to 3	2
3	to 5	0
5	to 10	0
	> 10	0
Total Non-Zero Values		595



PAS - Cresent Heights Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Cresent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

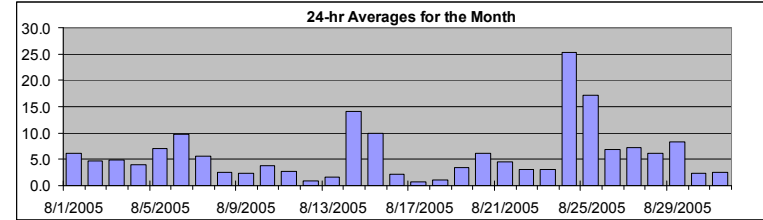
Particulate Matter (PM_{2.5})

Monitoring Dates: August 1, 2005 to September 1, 2005

Draft Objective Limit: Alberta Environment: 1-hr - $\mu\text{g}/\text{m}^3$ 24-hr 30 $\mu\text{g}/\text{m}^3$
 Summary

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	60.8 $\mu\text{g}/\text{m}^3$ 24-Aug 9:00 10:00
Maximum 24-hr Value:	25.3 $\mu\text{g}/\text{m}^3$ 24-Aug

AIC Time:	0 hrs	Operational Time:	739 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	99.3%
Percentile	99	95	75
	33.6	17.8	7.4
	4.0	1.6	0.0
	0.0	0.0	0.0
	Average		5.8 $\mu\text{g}/\text{m}^3$
	Geomean		4.3 $\mu\text{g}/\text{m}^3$



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Aug-05	6	5	3	5	8	7	8	10	6	5	7	7	9	4	3	3	7	14	7	7	7	2	1	3	6.1	14.0
2-Aug-05	5	5	10	7	6	7	6	5	3	4	1	4	2	0	2	0	12	8	5	5	4	3	4	5	4.7	12.4
3-Aug-05	4	4	5	6	7	4	14	8	2	0	2	2	2	2	2	3	4	6	5	5	6	6	9	11	5.0	14.2
4-Aug-05	10	9	5	4	6	6	7	8	5	5	0	3	2	2	2	0	1	2	3	5	3	2	4	2	4.0	9.7
5-Aug-05	3	3	4	5	4	5	11	6	9	10	9	5	5	6	4	5	5	5	10	10	12	14	13	9	7.1	14.1
6-Aug-05	9	11	8	10	7	15	16	10	10	13	13	12	11	11	8	5	6	7	7	10	14	11	6	4	9.8	15.8
7-Aug-05	5	6	7	5	6	11	13	10	6	7	7	7	5	6	5	5	3	4	6	3	0	1	3	4	5.7	12.7
8-Aug-05	1	2	1	2	3	3	3	2	1	0	0	0	2	3	2	1	4	10	6	5	3	2	3	1	2.5	10.2
9-Aug-05	3	2	0	1	2	2	3	5	5	1	1	0	0	2	0	0	1	4	3	0	1	9	5	4	2.3	9.0
10-Aug-05	1	0	0	3	5	5	6	10	5	9	8	6	4	3	3	3	2	1	1	2	3	N	N	3	3.7	9.7
11-Aug-05	1	1	1	2	4	4	4	2	0	2	0	0	3	7	3	4	2	13	3	3	2	1	3	3	2.8	13.1
12-Aug-05	2	0	0	0	0	1	2	2	0	0	0	1	1	2	3	0	4	0	3	0	1	0	0	0	0.9	3.6
13-Aug-05	4	1	2	1	1	1	3	3	3	1	D	0	1	0	0	0	0	1	2	2	3	4	4	2	1.7	4.2
14-Aug-05	2	3	4	4	5	5	5	9	16	18	17	16	19	19	15	17	13	18	24	24	26	23	18	18	14.1	26.3
15-Aug-05	17	18	18	16	14	15	14	14	13	11	12	11	11	10	9	9	7	9	8	1	0	0	0	0	9.9	18.0
16-Aug-05	0	0	0	0	0	0	0	0	2	4	3	4	3	4	3	5	5	4	4	5	3	1	0	2	2.2	5.4
17-Aug-05	0	D	0	0	0	0	2	1	0	1	2	2	3	2	2	4	0	0	0	0	0	0	0	0	0.8	3.6
18-Aug-05	0	1	0	0	0	1	1	2	1	2	1	0	0	0	1	2	2	5	2	3	1	1	0	0	1.1	5.3
19-Aug-05	3	0	1	2	1	2	2	2	0	0	1	1	0	2	3	4	6	6	6	7	7	9	8	7	3.4	9.2
20-Aug-05	6	7	8	7	5	8	9	9	7	5	1	0	1	1	0	3	3	5	8	8	17	14	10	6	6.2	16.6
21-Aug-05	6	5	4	4	3	3	5	5	4	3	1	0	1	2	3	3	3	4	5	9	10	11	11	4	4.5	10.9
22-Aug-05	3	3	4	12	13	8	5	4	2	1	0	0	0	0	0	0	0	0	1	1	1	2	4	9	3.1	13.4
23-Aug-05	5	1	2	1	3	1	6	3	4	2	3	4	4	5	5	9	6	4	0	0	3	0	0	1	3.0	9.3
24-Aug-05	1	0	0	D	0	0	0	0	33	61	53	41	33	31	34	34	30	30	28	29	34	47	39	23	25.3	60.8
25-Aug-05	23	22	29	27	20	13	16	20	25	28	24	20	15	13	14	14	12	13	14	13	11	9	8	9	17.2	28.6
26-Aug-05	5	6	6	6	6	6	8	7	6	6	7	3	4	5	5	3	5	6	6	7	11	18	12	9	6.8	17.8
27-Aug-05	9	6	5	5	7	5	5	6	5	7	7	7	4	4	6	6	6	8	7	10	13	15	12	8	7.3	14.6
28-Aug-05	7	7	8	9	7	8	12	9	7	4	1	5	4	5	3	3	4	4	5	10	8	8	6	3	6.1	12.0
29-Aug-05	3	4	3	5	3	4	4	8	5	5	7	9	7	8	9	17	20	21	17	13	13	8	1	5	8.2	20.8
30-Aug-05	4	4	2	3	2	2	6	2	3	1	0	1	1	0	0	0	1	2	1	3	4	7	3	3	2.4	6.9
31-Aug-05	2	1	2	4	2	2	3	4	3	3	1	2	1	1	1	2	2	3	4	3	3	4	4	4	2.6	4.3
Hourly Avg	4.9	4.6	4.6	5.1	4.9	5.0	6.4	6.0	6.1	7.0	6.4	5.6	5.2	5.1	4.9	5.3	5.7	7.0	6.4	6.6	7.3	7.8	6.3	5.3		
Hourly Max	22.6	22.2	28.6	26.6	20.2	15.4	16.1	20.4	33.0	60.8	53.1	40.8	33.3	30.8	34.3	33.8	30.3	29.8	27.8	28.6	33.8	46.8	39.4	23.3		

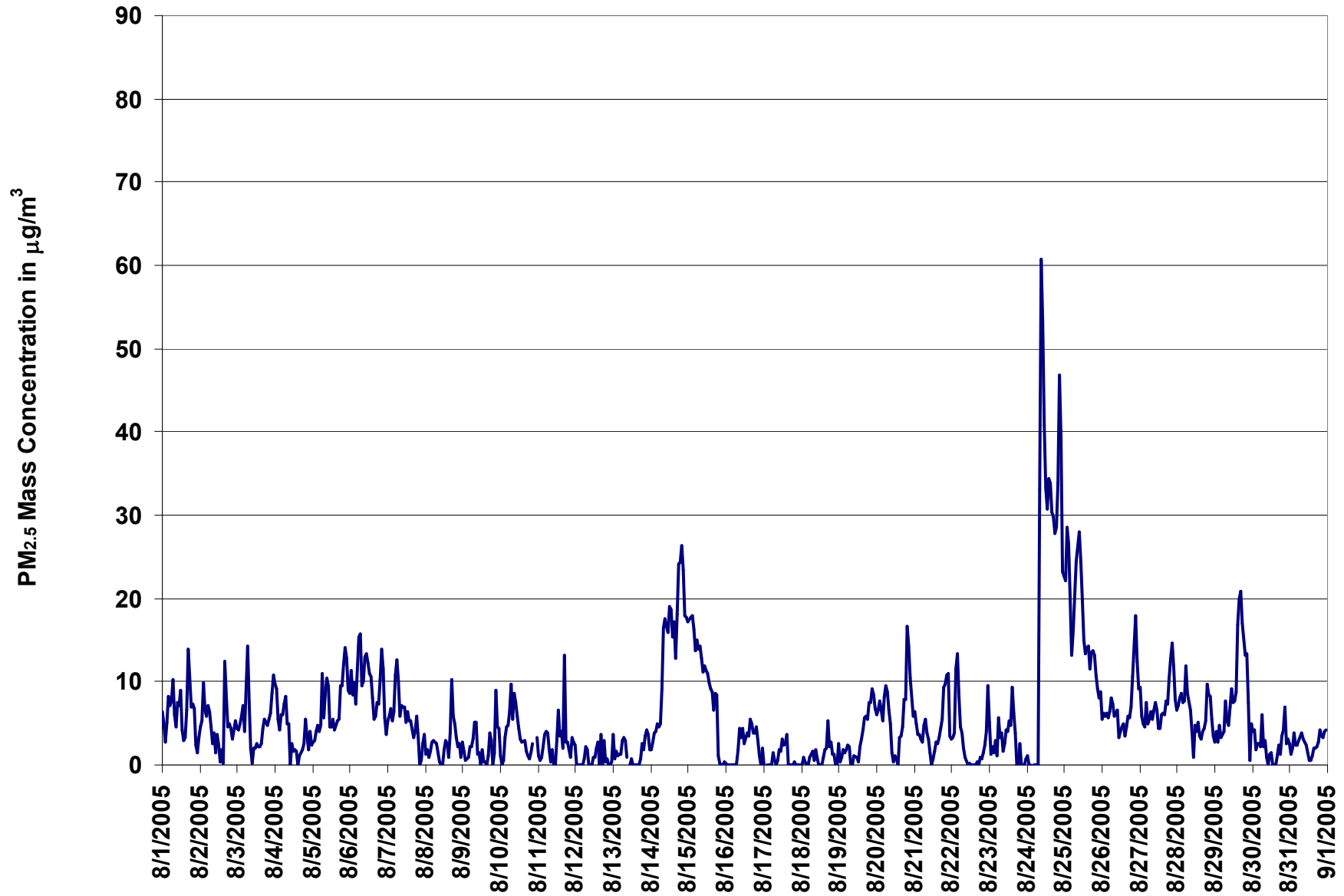


Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

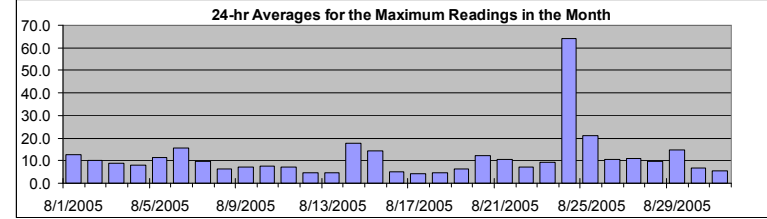
HOURLY MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	448.9	µg/m ³	24-Aug	8:00 9:00
Maximum 24-hr Value:	64.3	µg/m ³	24-Aug	



AIC Time:	0 hrs	Operational Time:	739 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.3%						
Percentile	99	95	75	50	25	5	1	Average	Geomean
	41.0	25.9	12.3	7.9	5.2	2.4	0.8	11.2 µg/m ³	9.3 µg/m ³

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Aug-05	12	16	5	8	14	11	12	14	11	18	23	16	15	11	7	7	12	26	12	13	13	9	8	6	12.5	26.1	
2-Aug-05	11	13	18	9	9	10	9	8	5	7	5	10	10	3	5	6	44	17	7	7	9	6	6	8	10.1	44.0	
3-Aug-05	7	7	7	11	11	12	31	11	5	4	6	5	6	4	4	5	6	9	9	7	7	9	12	15	8.9	30.7	
4-Aug-05	13	15	13	7	10	10	11	13	8	9	4	6	5	5	4	4	5	6	5	10	8	4	8	5	7.8	14.5	
5-Aug-05	5	5	6	7	7	7	27	10	13	15	15	9	10	10	10	8	9	11	14	12	19	20	16	12	11.5	26.6	
6-Aug-05	11	14	12	14	15	23	26	18	14	16	16	17	16	15	13	11	10	19	12	20	23	20	8	6	15.5	25.7	
7-Aug-05	7	9	13	8	8	25	16	14	10	11	10	10	8	10	10	10	6	7	14	12	2	3	6	7	9.8	24.5	
8-Aug-05	4	5	4	5	8	5	5	7	6	4	3	1	8	8	6	3	8	16	13	9	7	8	7	5	6.4	15.8	
9-Aug-05	9	4	7	5	8	7	7	8	12	6	6	6	13	8	5	2	4	9	6	2	4	19	11	7	7.3	18.7	
10-Aug-05	6	2	6	7	9	8	12	17	8	13	10	9	8	7	6	6	4	4	3	3	6	N	N	9	7.5	17.2	
11-Aug-05	3	4	4	5	9	9	6	4	3	5	4	4	9	9	8	7	5	38	7	6	7	5	4	5	7.2	37.9	
12-Aug-05	6	4	2	2	1	3	4	5	3	2	3	5	7	6	9	8	14	4	9	4	2	3	2	3	4.7	13.8	
13-Aug-05	10	3	3	3	3	5	5	6	6	6	D	2	5	2	3	2	2	5	5	6	6	7	7	4	4.6	9.6	
14-Aug-05	5	5	7	7	7	7	8	16	22	19	20	19	23	24	21	23	19	25	26	27	29	27	22	20	17.9	28.8	
15-Aug-05	20	27	24	21	15	17	18	21	19	16	17	18	14	16	14	16	10	11	10	7	2	2	2	3	14.2	26.9	
16-Aug-05	4	1	1	0	1	2	2	4	4	7	7	9	5	7	7	10	8	9	6	7	5	5	3	5	5.0	9.8	
17-Aug-05	3	D	4	1	1	2	7	3	3	4	6	13	14	5	5	7	3	4	2	4	3	2	1	2	4.4	14.4	
18-Aug-05	2	3	3	2	3	5	6	6	4	6	3	2	7	2	6	5	5	17	5	5	5	5	3	4	4.7	16.6	
19-Aug-05	6	3	3	4	3	4	5	5	3	3	5	4	4	5	7	8	8	9	7	10	16	12	11	9	6.4	16.0	
20-Aug-05	8	8	12	10	8	12	13	11	12	9	6	6	6	11	6	11	9	14	20	18	29	27	14	17	12.4	29.2	
21-Aug-05	12	16	6	9	7	6	8	10	7	8	5	4	8	7	6	14	12	9	9	17	16	22	27	9	10.7	27.5	
22-Aug-05	10	6	8	18	18	12	10	7	5	5	3	3	3	4	6	3	6	4	4	3	4	6	7	15	7.1	18.1	
23-Aug-05	12	7	8	6	7	3	11	8	10	7	8	12	11	11	13	31	12	15	5	1	8	5	2	5	9.1	30.6	
24-Aug-05	6	4	4	D	0	6	1	0	449	449	74	44	35	34	38	38	35	32	30	32	43	50	48	26	64.3	448.9	
25-Aug-05	25	26	32	32	26	16	19	23	29	31	29	22	19	18	17	20	15	16	19	17	14	13	11	13	20.9	31.6	
26-Aug-05	7	8	8	9	7	10	13	11	8	10	10	10	8	7	8	7	8	9	8	10	25	24	21	11	10.7	24.6	
27-Aug-05	12	8	9	8	13	10	8	9	9	10	10	12	7	8	9	10	9	13	10	14	16	19	14	10	10.8	19.1	
28-Aug-05	9	10	11	11	9	10	17	14	10	10	7	8	7	10	7	5	8	6	13	15	12	12	9	7	9.8	17.4	
29-Aug-05	5	9	8	11	7	7	11	13	19	12	10	14	12	12	12	25	24	26	27	19	25	26	10	11	14.7	26.8	
30-Aug-05	12	10	5	5	12	6	11	7	7	9	6	6	3	3	3	3	1	3	5	4	7	9	11	7	5	6.6	12.0
31-Aug-05	5	3	4	9	5	5	6	6	5	6	5	5	3	4	7	6	5	6	5	7	7	6	6	6	5.4	8.8	
Hourly Avg	8.6	8.5	8.1	8.5	8.5	8.9	11.2	10.0	23.5	23.7	11.2	10.0	10.0	9.3	9.1	10.3	10.7	13.0	10.6	10.7	12.3	12.9	10.4	8.7			
Hourly Max	24.9	26.9	31.6	31.6	25.8	24.5	30.7	23.3	448.9	448.7	73.6	44.2	34.7	33.7	37.8	38.1	44.0	37.9	30.4	32.1	42.7	50.3	48.4	25.9			

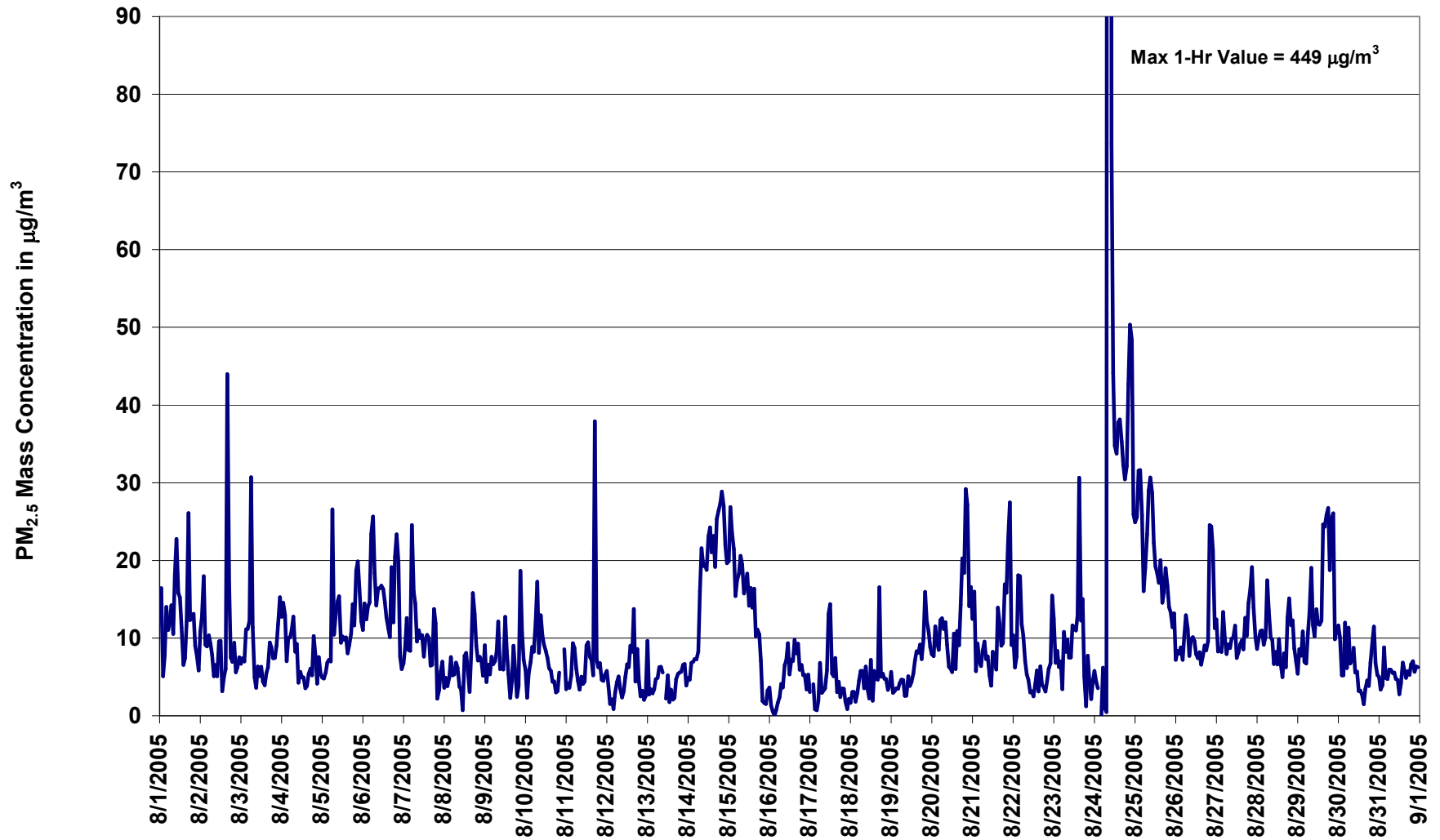
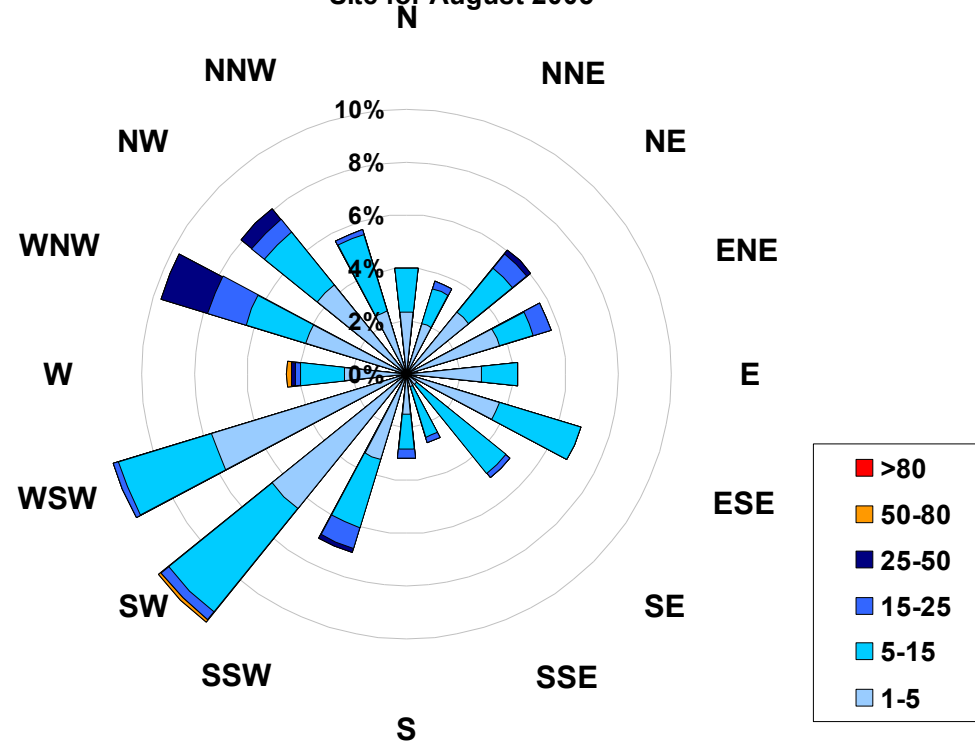


Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Maximum Value Monthly Trend



1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Crescent Heights Site for August 2005



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range		Frequency (hrs)	
1.0	< 5	443	
5	to 15	240	
15	to 25	37	
25	to 50	17	
50	to 80	2	
	> 80	0	
Total Non-Zero Values		739	



PAS - Cresent Heights Relative Humidity Monthly Summary

Station: Cresent Heights
 Station Owner: PAS

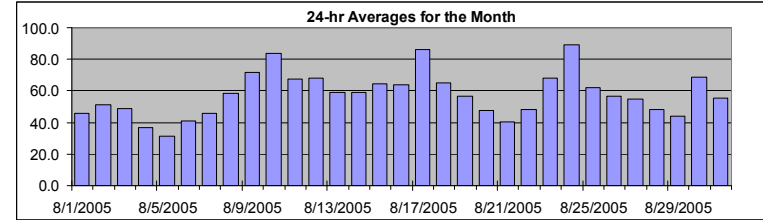
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	93.0 %	24-Aug	1:00 2:00
Maximum 24-hr Value:	88.9 %	24-Aug	



AIC Time:	0 hrs	Operational Time:	742 hrs					
Calibration Time:	0 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	91.4	88.3	75.4	58.0	41.8	19.2	12.8	57.5 %

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum
1-Aug-05	Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Aug-05		47	50	47	49	53	54	51	56	54	46	45	48	46	35	27	22	26	47	43	49	57	50	50	54	46.0	56.9
2-Aug-05		57	57	70	74	75	73	68	61	54	45	38	37	34	28	27	21	29	47	46	50	54	56	63	71	51.5	75.2
3-Aug-05		72	75	79	81	81	73	68	58	49	39	34	31	30	28	27	27	30	29	30	33	40	44	51	61	48.7	81.0
4-Aug-05		69	70	73	75	74	72	65	55	43	34	20	19	17	16	15	12	10	11	12	17	19	22	29	26	36.5	74.6
5-Aug-05		28	31	36	42	44	48	45	41	40	39	37	27	21	18	15	13	13	13	16	24	30	37	43	47	31.1	47.8
6-Aug-05		48	53	54	61	62	63	57	44	45	46	45	40	37	33	27	22	17	17	19	27	35	40	47	52	41.2	63.3
7-Aug-05		57	60	60	57	52	46	52	58	53	48	44	40	37	36	34	34	34	33	35	43	42	42	46	51	45.6	59.9
8-Aug-05		51	52	54	57	60	63	63	62	59	55	49	37	36	34	37	38	43	56	77	82	81	81	85	84	58.1	84.7
9-Aug-05		85	86	88	84	85	83	85	85	86	80	72	63	62	62	57	55	53	54	58	54	54	61	82	84	71.6	87.6
10-Aug-05		83	77	75	77	80	85	85	89	90	87	88	91	91	88	86	84	84	84	84	83	82	N	N	74	83.9	91.2
11-Aug-05		75	77	79	79	79	87	88	80	70	63	56	49	48	49	49	47	46	70	74	73	70	68	70	76	67.6	88.1
12-Aug-05		81	80	75	75	73	73	76	73	67	63	51	55	53	55	55	56	63	71	73	71	72	72	74	77	68.2	80.6
13-Aug-05		79	82	87	89	89	88	83	79	73	64	51	42	40	37	33	30	30	31	38	43	48	57	62	62	59.1	88.7
14-Aug-05		60	62	64	70	74	77	77	75	68	63	58	53	48	44	40	38	41	45	51	55	60	64	66	67	59.2	77.3
15-Aug-05		69	76	82	86	88	89	88	80	71	61	56	51	49	46	47	45	43	42	46	59	64	69	70	73	64.6	89.3
16-Aug-05		76	76	76	74	75	77	77	73	66	59	56	51	49	47	47	48	51	49	50	58	68	71	73	79	63.6	79.4
17-Aug-05		85	85	87	88	89	92	90	87	85	83	82	81	79	78	78	85	89	89	89	88	89	89	89	88	86.0	91.9
18-Aug-05		87	86	87	87	87	84	78	77	71	70	65	52	43	35	37	36	38	45	57	64	66	69	71	70	65.0	87.3
19-Aug-05		71	74	73	76	78	80	76	70	59	52	47	43	37	34	34	33	34	36	39	47	56	60	70	75	56.5	80.3
20-Aug-05		77	80	82	85	84	84	71	63	52	39	32	26	21	19	14	15	15	17	23	31	38	51	59	58	47.4	84.7
21-Aug-05		65	67	68	69	71	68	61	51	42	32	27	21	17	15	15	14	14	15	20	30	38	47	49	50	40.2	70.5
22-Aug-05		48	41	46	52	66	75	69	60	55	49	45	41	39	37	37	36	38	40	41	42	44	47	49	54	48.0	75.1
23-Aug-05		64	64	70	75	79	76	77	71	62	55	51	47	44	44	44	52	63	72	80	84	91	91	90	91	68.2	91.3
24-Aug-05		93	93	92	91	89	88	88	85	81	80	79	86	88	88	89	91	92	91	91	90	92	91	91	92	88.9	93.0
25-Aug-05		89	88	86	88	87	84	80	76	72	65	58	49	39	33	33	31	28	34	39	49	59	67	73	78	61.8	88.8
26-Aug-05		79	79	76	78	79	81	76	71	66	60	53	40	34	33	31	28	25	27	34	43	50	59	72	75	56.3	80.7
27-Aug-05		79	81	78	74	80	74	68	61	56	51	47	39	32	29	29	29	30	31	36	46	53	64	70	71	54.5	81.3
28-Aug-05		74	73	74	77	80	79	79	67	58	44	31	27	24	22	20	18	18	19	23	34	46	55	61	61	48.4	80.3
29-Aug-05		57	57	58	65	62	59	51	50	33	23	17	17	15	13	13	21	28	37	48	60	66	70	68	69	44.0	70.3
30-Aug-05		71	71	70	75	78	86	88	88	86	81	72	71	66	58	51	49	50	50	50	57	62	69	73	75	68.7	88.5
31-Aug-05		77	75	73	77	80	81	75	70	63	57	49	41	34	31	31	31	30	31	36	44	49	57	64	68	55.1	81.2
Hourly Avg		69.5	70.2	71.6	73.7	75.3	75.5	72.7	68.2	62.3	55.9	50.1	45.7	42.3	39.5	38.1	37.6	38.8	43.0	47.0	52.6	57.2	60.7	65.4	68.2		
Hourly Max		92.6	93.0	92.5	90.9	89.2	91.9	90.1	88.7	90.0	86.8	88.0	91.2	90.9	88.1	88.8	91.2	92.0	91.0	91.1	90.4	91.9	91.0	91.4	92.5		

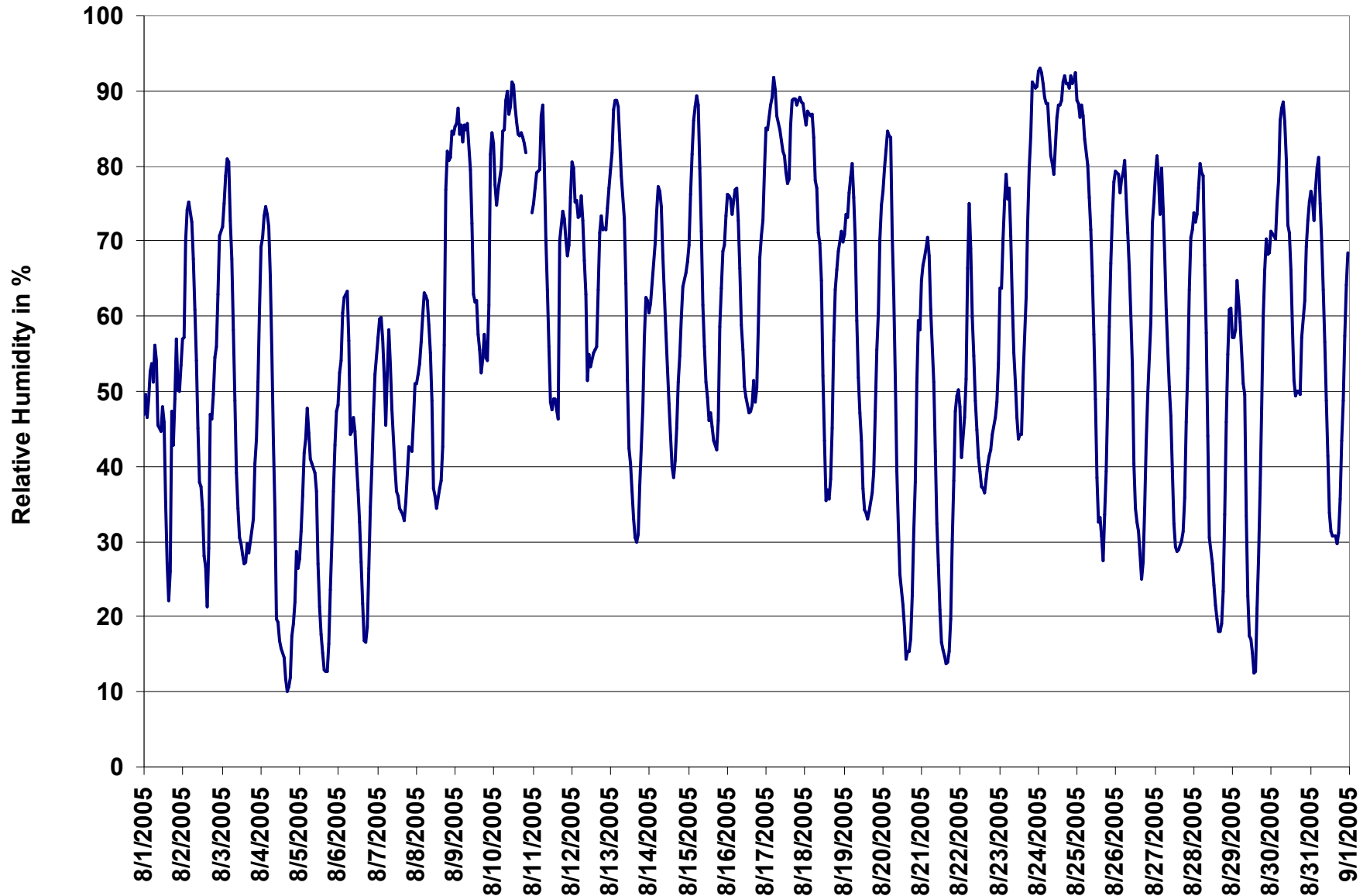


Figure 13. PAS - Cresent Heights Relative Humidity 1-hr Average Monthly Trend



PAS - Cresent Heights Temperature Monthly Summary

Station: Cresent Heights
 Station Owner: PAS

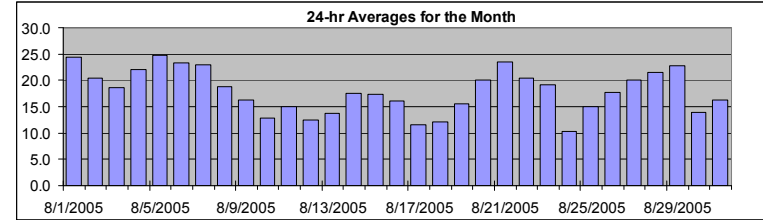
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	35.1 °C	29-Aug	14:00 15:00
Maximum 24-hr Value:	24.7 °C	5-Aug	



AIC Time:	0 hrs	Operational Time:	742 hrs					
Calibration Time:	0 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	33.6	30.9	22.3	16.8	12.5	9.5	7.4	17.9 °C

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Aug-05	20	19	18	18	19	19	20	21	22	24	25	25	27	31	33	34	33	27	29	26	25	24	22	20	24.3	34.4
2-Aug-05	19	19	18	16	16	16	17	18	20	23	24	25	26	28	28	29	26	21	20	19	18	17	15	13	20.4	28.6
3-Aug-05	13	12	11	11	10	11	13	16	18	20	22	24	24	25	26	26	25	25	24	22	20	19	16	15	18.7	25.8
4-Aug-05	12	11	9	8	8	9	12	16	20	25	28	30	31	32	32	32	32	32	32	28	25	23	20	21	22.1	32.5
5-Aug-05	21	20	19	18	18	16	19	21	22	25	26	29	31	32	33	33	33	33	32	29	26	23	19	17	24.7	33.1
6-Aug-05	16	15	15	14	13	14	16	20	22	23	25	27	28	30	31	33	33	33	32	29	26	24	21	20	23.4	33.4
7-Aug-05	18	17	16	16	17	19	19	19	21	23	25	27	28	29	30	30	30	29	29	26	23	21	20	19	22.9	30.2
8-Aug-05	18	18	18	17	17	16	16	17	18	19	21	22	23	25	24	24	22	20	17	16	16	16	15	15	18.7	24.8
9-Aug-05	15	14	14	13	13	13	13	14	14	16	17	19	19	19	19	19	20	20	19	18	18	17	15	14	16.3	19.7
10-Aug-05	14	14	13	13	13	12	12	12	12	13	13	13	13	13	13	13	13	12	12	12	12	N	N	12	12.8	14.5
11-Aug-05	11	11	11	11	11	10	10	12	14	16	17	18	19	20	21	20	20	17	16	15	15	15	14	13	14.9	20.6
12-Aug-05	12	12	11	11	11	11	11	11	12	13	14	14	15	15	16	16	15	13	12	13	12	11	10	9	12.4	15.8
13-Aug-05	8	8	7	6	6	6	7	10	12	15	16	17	18	19	20	21	21	21	19	17	16	14	13	13	13.7	20.9
14-Aug-05	13	13	12	12	12	11	12	13	16	18	20	21	22	24	25	26	24	22	20	19	17	16	16	15	17.4	25.8
15-Aug-05	15	14	14	13	13	13	13	14	16	19	20	21	22	23	23	23	23	23	22	17	15	13	13	12	17.3	23.5
16-Aug-05	11	11	11	11	10	10	10	11	14	17	18	20	20	21	21	22	22	23	22	19	17	16	14	13	16.1	22.7
17-Aug-05	13	12	11	11	10	9	10	11	11	12	12	13	14	14	14	13	12	12	11	11	11	10	10	10	11.5	14.0
18-Aug-05	10	10	9	8	7	7	8	9	10	11	13	15	16	17	17	18	17	16	13	12	12	11	11	11	12.0	17.8
19-Aug-05	11	10	10	10	10	10	10	11	14	15	17	19	20	21	22	23	23	22	21	19	16	15	12	10	15.5	22.7
20-Aug-05	10	9	9	8	7	7	11	14	18	23	25	27	29	30	31	30	31	31	29	25	23	20	18	17	20.1	30.9
21-Aug-05	15	14	13	12	12	12	14	18	22	26	28	31	32	33	34	34	34	34	32	28	24	21	19	18	23.4	34.4
22-Aug-05	18	19	17	17	16	14	16	18	19	21	22	24	25	25	25	25	24	23	22	22	21	20	20	19	20.5	24.7
23-Aug-05	18	18	17	16	16	16	16	18	21	22	24	26	27	27	27	25	22	19	16	15	14	14	13	13	19.1	27.1
24-Aug-05	12	12	12	11	11	11	10	10	11	12	13	11	10	10	9	9	9	10	10	9	9	9	9	9	10.3	12.7
25-Aug-05	10	10	10	10	10	11	12	12	13	14	16	18	20	21	21	22	22	21	20	18	15	13	12	11	15.0	21.9
26-Aug-05	10	10	10	9	9	8	10	12	14	17	20	23	24	26	27	27	27	27	25	21	20	18	15	14	17.6	27.3
27-Aug-05	13	13	13	13	11	11	13	16	18	20	23	26	28	29	29	30	29	29	27	23	21	18	16	15	20.1	29.6
28-Aug-05	14	14	14	13	12	12	14	17	20	24	27	28	29	30	31	31	31	31	29	24	21	18	16	15	21.5	31.0
29-Aug-05	15	15	14	14	14	14	16	19	26	29	32	33	34	35	35	33	30	27	25	21	18	16	15	15	22.7	35.1
30-Aug-05	14	14	14	13	12	12	12	11	12	12	13	14	16	17	17	17	17	17	18	16	15	14	12	11	14.0	17.5
31-Aug-05	11	11	11	11	10	9	10	11	14	16	19	21	23	24	23	23	23	23	21	19	17	14	12	11	16.3	23.5
Hourly Avg	13.8	13.4	13.0	12.4	12.1	12.0	13.0	14.6	16.7	18.8	20.5	21.9	23.0	24.0	24.5	24.5	23.9	22.9	21.8	19.6	17.9	16.7	15.1	14.2		
Hourly Max	21.0	20.0	19.1	18.5	18.9	19.2	20.3	20.9	25.6	29.5	32.2	33.1	33.7	35.1	35.1	34.4	34.4	33.9	32.3	29.0	25.7	23.9	22.1	21.1		

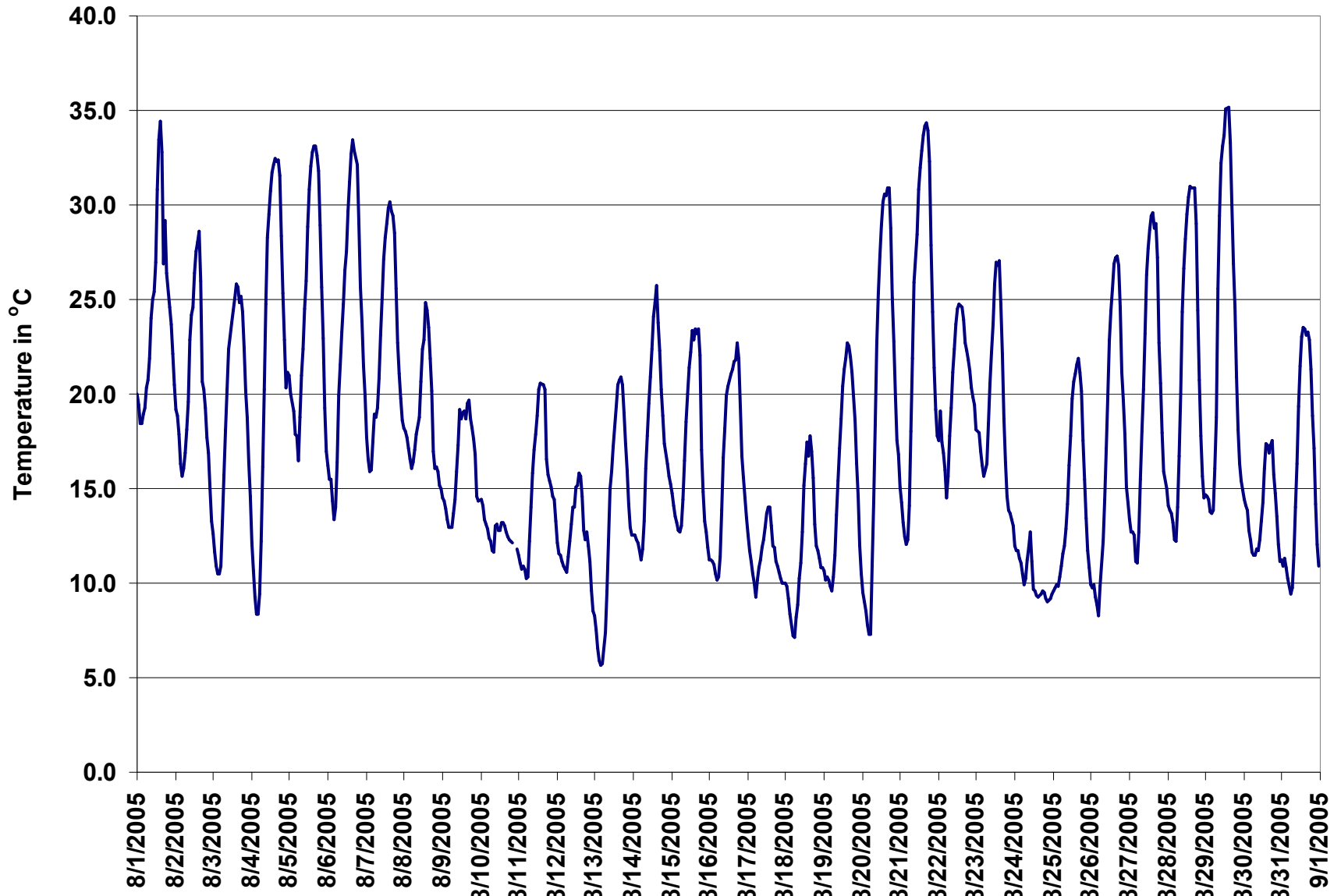


Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend



PAS - Cresent Heights Solar Radiation Monthly Summary

Station: Cresent Heights
 Station Owner: PAS

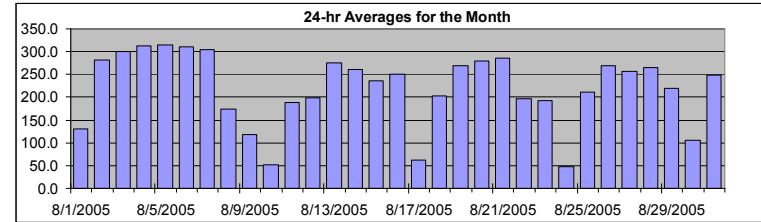
HOURLY AVERAGE TABLE

Solar Radiation (SR)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	882.0	W/m ²	2-Aug	12:00 13:00
Maximum 24-hr Value:	315.4	W/m ²	5-Aug	



AIC Time:	0 hrs	Operational Time:	742 hrs					
Calibration Time:	0 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	851.2	774.2	426.6	61.0	0.0	0.0	0.0	220.6 W/m ²

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Aug-05	0	0	0	0	1	18	67	57	138	153	131	159	361	364	677	500	165	109	202	20	1	0	0	0	130.1	677.2	
2-Aug-05	0	0	0	0	2	78	153	290	398	654	625	473	882	852	782	670	368	326	169	53	4	0	0	0	282.4	882.0	
3-Aug-05	0	0	0	0	1	48	188	334	513	657	773	856	822	850	768	515	281	353	188	42	1	0	0	0	299.5	856.5	
4-Aug-05	0	0	0	0	1	47	189	355	524	670	785	857	880	852	696	644	438	347	194	47	0	0	0	0	313.7	880.4	
5-Aug-05	0	0	0	0	1	38	183	347	514	660	770	844	871	839	769	659	508	345	182	36	1	0	0	0	315.4	871.2	
6-Aug-05	0	0	0	0	1	40	179	345	506	648	755	827	853	827	759	650	508	343	179	35	0	0	0	0	310.7	853.0	
7-Aug-05	0	0	0	0	1	39	173	334	499	645	754	824	845	812	740	627	490	328	165	32	0	0	0	0	304.4	844.6	
8-Aug-05	0	0	0	0	0	7	53	110	158	199	473	613	511	797	695	391	124	22	19	7	0	0	0	0	174.1	796.9	
9-Aug-05	0	0	0	0	1	15	28	88	138	281	416	420	231	386	188	105	240	211	46	19	0	0	0	0	117.2	419.9	
10-Aug-05	0	0	0	0	0	6	25	18	181	198	54	73	151	132	89	58	55	63	26	3	0	N	N	0	51.5	198.5	
11-Aug-05	0	0	0	0	0	8	114	311	499	603	435	341	504	612	430	281	172	109	86	18	0	0	0	0	188.4	612.4	
12-Aug-05	0	0	0	0	0	12	61	210	327	379	331	425	660	630	588	608	323	137	65	16	0	0	0	0	198.8	659.6	
13-Aug-05	0	0	0	0	0	31	157	328	497	676	545	645	759	794	736	607	491	269	83	13	0	0	0	0	276.3	793.5	
14-Aug-05	0	0	0	0	0	10	50	193	380	582	695	774	798	769	698	635	287	267	98	21	0	0	0	0	260.8	798.2	
15-Aug-05	0	0	0	0	0	11	87	258	469	602	708	775	588	650	415	372	356	282	100	15	0	0	0	0	236.9	775.1	
16-Aug-05	0	0	0	0	0	14	64	157	325	601	651	712	678	759	677	580	431	247	114	6	0	0	0	0	250.6	758.5	
17-Aug-05	0	0	0	0	0	12	61	90	120	130	147	236	235	165	85	59	78	54	18	9	0	0	0	0	62.4	236.3	
18-Aug-05	0	0	0	0	0	20	130	153	221	268	530	792	729	756	373	561	218	101	32	2	0	0	0	0	203.6	792.0	
19-Aug-05	0	0	0	0	0	7	48	127	424	615	725	787	821	782	713	584	449	250	120	11	0	0	0	0	269.3	820.9	
20-Aug-05	0	0	0	0	0	16	140	295	461	608	722	787	813	759	745	587	423	257	94	9	0	0	0	0	279.9	813.3	
21-Aug-05	0	0	0	0	0	15	138	300	467	613	727	802	824	791	714	598	450	283	120	7	0	0	0	0	285.4	824.4	
22-Aug-05	0	0	0	0	0	14	127	287	434	583	653	772	626	430	300	259	155	53	33	2	0	0	0	0	197.1	772.4	
23-Aug-05	0	0	0	0	0	3	51	140	270	330	629	708	610	469	562	401	289	133	21	0	0	0	0	0	192.3	707.8	
24-Aug-05	0	0	0	0	0	0	13	109	167	145	134	151	105	143	95	55	32	10	5	0	0	0	0	0	48.5	167.1	
25-Aug-05	0	0	0	0	0	11	30	59	129	205	473	609	817	763	633	566	437	244	91	5	0	0	0	0	211.3	817.4	
26-Aug-05	0	0	0	0	0	9	119	281	447	591	702	774	793	758	682	565	416	252	75	3	0	0	0	0	269.5	793.2	
27-Aug-05	0	0	0	0	0	8	110	267	427	572	684	755	773	737	660	544	320	242	83	3	0	0	0	0	257.7	773.3	
28-Aug-05	0	0	0	0	0	7	105	262	430	579	695	767	783	749	672	560	408	242	78	3	0	0	0	0	264.2	782.5	
29-Aug-05	0	0	0	0	0	8	67	220	281	437	668	683	627	670	465	575	350	150	61	1	0	0	0	0	219.3	682.6	
30-Aug-05	0	0	0	0	0	1	5	26	67	94	239	201	267	480	469	286	171	144	94	5	0	0	0	0	106.1	480.1	
31-Aug-05	0	0	0	0	0	4	98	254	414	557	668	741	798	741	568	449	365	230	63	1	0	0	0	0	248.0	797.8	
Hourly Avg	0.0	0.0	0.0	0.0	0.2	17.9	97.2	213.1	349.2	468.9	557.9	618.8	645.6	649.0	562.7	469.4	316.1	206.5	93.7	14.3	0.2	0.0	0.0	0.0			
Hourly Max	0.0	0.1	0.1	0.1	2.4	78.2	188.7	355.4	524.2	676.1	785.4	856.9	882.0	852.0	782.5	669.7	508.0	353.5	202.4	52.7	3.6	0.1	0.1	0.0			

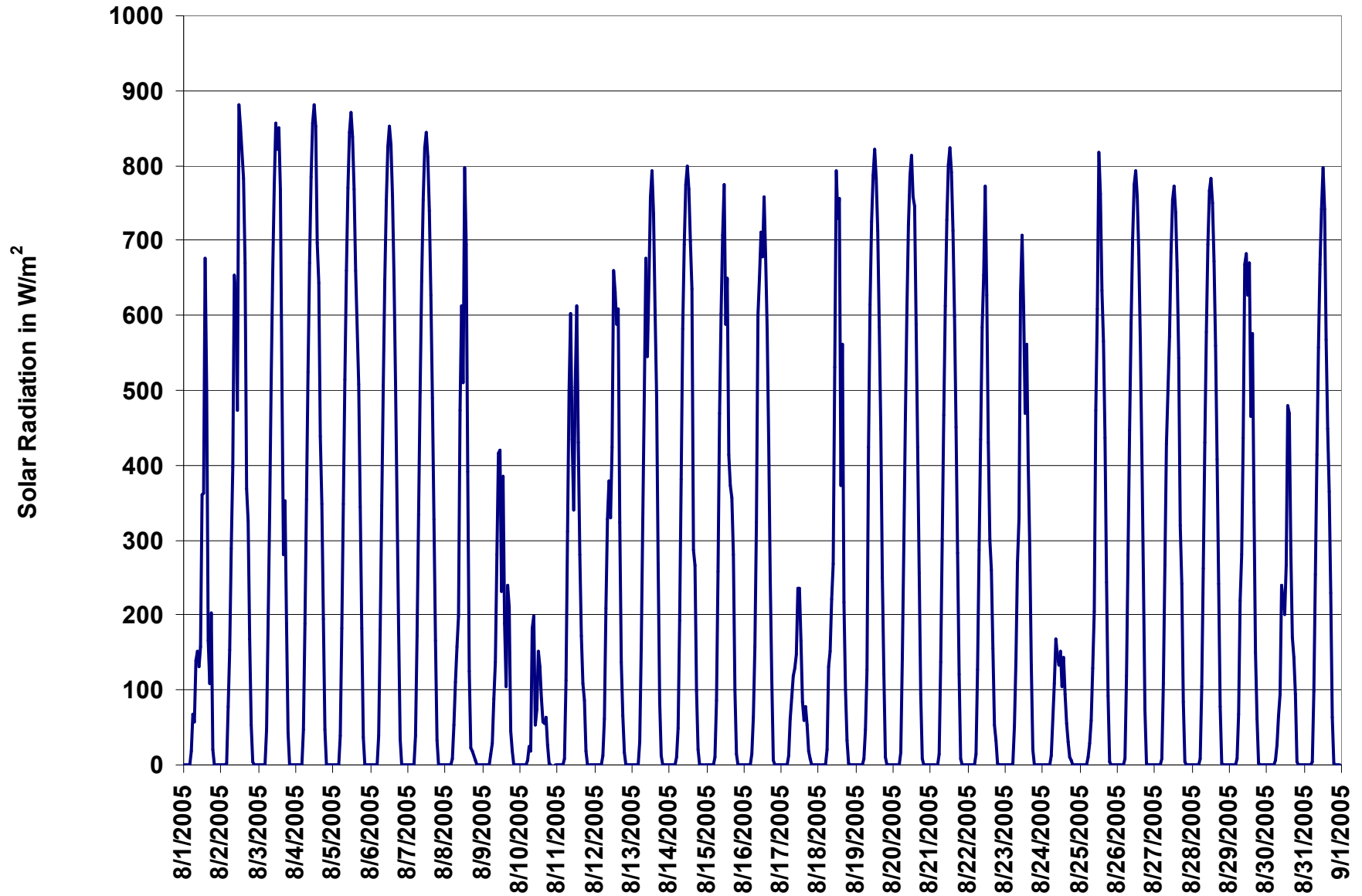


Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend



PAS - Cresent Heights Scalar Wind Speed Monthly Summary

Station: Cresent Heights
 Station Owner: PAS

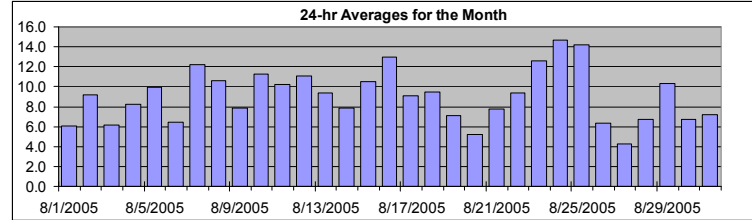
HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	30.3	km/hr	2-Aug	17:00 18:00
Maximum 24-hr Value:	14.7	km/hr	24-Aug	



Calm Time:	3 hrs	0% calms	Operational Time:	739 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.7%				
Percentile	99	95	75	50	25	5	1	AverageS
	20.3	17.7	12.1	8.2	5.4	2.7	1.5	9.1 km/hr

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Aug-05	5	5	6	3	4	3	4	4	4	4	4	4	5	6	7	6	5	11	6	8	11	11	10	10	6.0	11.3
2-Aug-05	12	11	13	9	7	6	6	6	4	4	4	3	6	8	9	12	20	30	21	8	6	7	5	2	9.1	30.3
3-Aug-05	5	4	1	2	6	4	3	3	5	8	7	8	9	9	10	9	8	10	13	9	5	5	1	2	6.1	12.9
4-Aug-05	3	4	4	3	4	3	3	1	4	4	8	16	16	16	16	17	17	14	9	8	7	8	3	9	8.3	17.3
5-Aug-05	10	14	8	12	14	13	8	16	17	13	13	10	11	12	13	11	9	8	6	3	3	5	5	6	10.0	16.7
6-Aug-05	5	4	6	5	5	3	3	4	6	9	8	8	9	8	11	8	7	8	5	2	2	10	10	9	6.4	10.6
7-Aug-05	6	4	7	12	19	15	10	11	12	12	11	12	15	13	10	10	11	11	15	23	23	17	9	6	12.2	23.1
8-Aug-05	9	9	11	12	11	8	7	8	10	11	11	14	14	14	15	16	15	14	12	8	6	5	7	5	10.6	15.9
9-Aug-05	3	1	3	3	3	5	4	3	3	6	8	9	7	13	13	13	15	17	14	14	12	7	7	6	7.8	17.0
10-Aug-05	8	11	8	10	12	12	15	11	17	12	5	10	14	16	15	14	15	14	11	7	6	N	N	6	11.3	17.0
11-Aug-05	6	6	4	4	5	6	7	10	14	15	16	15	17	17	16	15	13	16	8	6	7	8	8	8	10.3	16.9
12-Aug-05	10	8	8	9	9	10	9	12	15	12	17	19	18	16	15	13	14	12	10	8	7	7	5	3	11.1	18.5
13-Aug-05	4	7	6	6	6	7	7	9	11	12	11	11	12	13	12	14	13	13	10	7	6	10	10	11	9.4	13.5
14-Aug-05	11	11	6	3	3	3	3	2	3	3	5	6	6	5	6	7	13	19	16	14	11	12	13	10	7.8	19.1
15-Aug-05	6	5	4	6	9	4	6	7	10	8	8	8	7	8	12	11	16	13	14	20	19	18	18	16	10.6	19.6
16-Aug-05	16	17	19	22	20	19	16	15	6	5	7	6	9	11	10	12	12	9	10	10	16	17	14	12	13.0	21.9
17-Aug-05	11	13	9	8	8	10	7	6	6	5	4	6	6	10	11	13	15	13	15	12	11	7	8	6	9.1	15.4
18-Aug-05	7	8	7	9	7	7	6	7	6	8	10	15	14	15	12	12	11	15	16	11	9	5	6	6	9.4	16.4
19-Aug-05	6	10	7	6	6	5	4	4	6	6	7	9	10	12	13	11	13	11	8	3	4	3	4	4	7.1	12.8
20-Aug-05	3	3	2	3	3	1	calm	2	3	3	6	7	10	9	15	12	7	4	2	calm	2	6	5	7	5.2	14.7
21-Aug-05	4	5	4	5	4	5	7	8	15	11	13	12	15	16	13	12	8	6	4	4	3	5	4	3	7.7	15.9
22-Aug-05	6	11	14	9	11	5	6	7	10	11	12	11	12	11	11	10	12	12	11	9	10	6	4	6	9.4	13.8
23-Aug-05	12	11	23	19	15	12	5	6	8	17	20	10	6	6	11	17	17	18	15	15	9	10	8	9	12.6	23.3
24-Aug-05	10	9	11	11	15	15	10	12	12	8	8	17	18	15	14	16	16	17	18	19	21	22	19	18	14.7	22.1
25-Aug-05	18	19	19	19	17	15	17	17	17	16	17	19	19	19	18	17	16	11	7	4	6	5	2	6	14.2	19.4
26-Aug-05	8	9	10	7	6	6	4	7	9	8	8	5	5	5	8	10	9	8	2	2	3	5	4	6.4	10.5	
27-Aug-05	4	3	5	6	3	5	3	3	5	6	4	3	5	5	5	5	5	3	2	3	4	5	4	5	4.3	6.2
28-Aug-05	5	2	calm	2	5	3	2	4	7	9	16	12	15	12	11	12	9	4	2	3	4	8	6	3	6.7	15.7
29-Aug-05	2	1	1	3	5	7	6	4	4	7	19	19	20	16	15	17	15	8	10	14	17	16	14	7	10.3	19.5
30-Aug-05	6	7	9	8	6	5	4	6	7	9	10	5	7	9	10	10	11	8	6	1	2	3	7	5	6.7	11.3
31-Aug-05	6	6	6	5	4	8	6	8	9	9	9	9	9	9	11	10	8	9	7	6	6	7	6	4	7.2	10.5
1-hr Average	7.4	7.7	8.1	7.8	8.2	7.4	6.5	7.2	8.5	8.7	9.9	10.3	11.2	11.5	11.6	11.9	12.1	11.7	10.0	8.7	8.2	8.6	7.5	6.9		
Hourly Max	18.2	19.2	23.3	21.9	19.9	18.6	17.1	17.2	17.0	16.8	19.6	19.4	19.5	18.6	17.8	17.3	19.7	30.3	20.9	23.1	22.9	22.1	19.1	18.4		



PAS - Cresnet Heights Vector Wind Speed Monthly Summary

Station: Cresnet Heights
 Station Owner: PAS

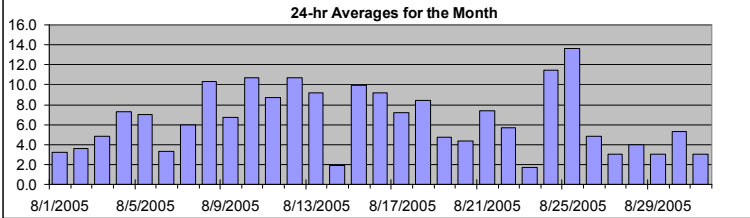
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	30.0	km/hr	2-Aug	17:00 18:00
Maximum 24-hr Value:	13.6	km/hr	25-Aug	



Calm Time:	9 hrs	1% calms	Operational Time:	733 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.7%				
Percentile	99	95	75	50	25	5	1	AverageV
	20.2	17.4	11.7	7.8	4.9	2.1	1.2	4.7 km/hr

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Aug-05	5	5	6	1	calm	2	2	2	1	4	3	2	5	6	7	5	5	10	5	7	8	11	11	10		3.2	11.1
2-Aug-05	11	11	13	9	6	5	6	6	3	2	3	3	4	8	9	11	14	30	21	7	6	7	4	2		3.6	30.0
3-Aug-05	5	4	calm	2	6	3	3	2	5	7	5	6	8	7	8	8	7	9	13	8	5	5	1	calm		4.9	12.8
4-Aug-05	3	4	4	3	4	3	2	1	3	3	7	15	15	16	16	17	17	14	9	8	7	8	3	9		7.3	16.9
5-Aug-05	10	14	7	12	14	13	7	16	17	12	13	10	11	11	12	11	9	8	6	3	3	4	5	5		7.0	16.6
6-Aug-05	5	4	6	3	4	2	3	4	6	8	7	8	9	8	10	7	6	8	5	2	2	10	10	8		3.3	10.3
7-Aug-05	6	4	5	12	19	15	9	11	11	11	11	11	14	12	10	9	10	11	15	23	23	17	9	6		6.0	23.0
8-Aug-05	9	9	10	12	10	7	7	8	10	11	10	14	13	13	14	15	15	14	11	7	6	5	7	5		10.3	15.5
9-Aug-05	2	calm	2	3	3	4	3	2	2	5	7	9	7	12	12	13	15	17	14	14	12	4	5	6		6.7	16.8
10-Aug-05	8	11	8	9	12	12	15	9	17	11	5	10	14	16	15	14	15	14	11	7	6	N	N	6		10.7	16.6
11-Aug-05	5	6	4	4	5	6	7	10	14	15	16	15	17	16	16	15	13	15	8	6	7	8	8	7		8.8	16.6
12-Aug-05	10	8	8	9	9	10	9	12	15	11	16	18	18	15	14	13	13	12	10	8	7	7	5	3		10.7	18.4
13-Aug-05	4	7	6	6	6	7	6	9	11	12	11	10	11	12	11	13	13	13	10	7	6	10	9	11		9.2	13.3
14-Aug-05	11	11	6	2	2	2	2	calm	3	1	3	6	4	4	5	4	11	19	16	14	10	12	12	10		1.9	19.0
15-Aug-05	5	4	4	6	9	1	5	7	9	8	8	7	7	7	11	11	16	13	13	19	19	18	18	16		9.9	19.4
16-Aug-05	16	17	19	22	20	18	16	15	6	4	6	4	9	10	10	11	11	9	9	10	16	16	13	12		9.2	21.7
17-Aug-05	10	12	7	7	8	10	7	6	5	5	4	5	5	10	10	13	15	13	15	12	10	7	8	6		7.2	15.3
18-Aug-05	7	8	7	8	7	6	6	7	6	8	9	14	13	14	11	12	10	13	16	11	8	4	6	5		8.4	16.2
19-Aug-05	6	9	6	5	6	5	4	4	6	6	6	8	9	12	12	11	12	10	8	2	4	3	4	3		4.7	12.2
20-Aug-05	3	3	2	3	3	1	calm	2	2	3	6	6	9	8	14	12	7	3	1	calm	2	5	4	6		4.3	14.3
21-Aug-05	4	4	4	4	4	5	7	8	15	11	13	12	15	15	13	12	7	5	4	4	3	4	4	2		7.4	15.5
22-Aug-05	6	11	14	8	10	5	5	7	9	10	11	10	11	10	10	10	12	12	11	9	10	5	4	5		5.6	13.7
23-Aug-05	12	10	22	19	15	12	4	6	7	17	19	10	3	5	10	17	17	17	15	13	7	10	8	9		1.7	22.4
24-Aug-05	10	8	11	11	15	15	10	12	11	8	6	17	18	15	14	16	16	17	18	19	20	22	19	18		11.5	21.9
25-Aug-05	18	19	19	19	17	15	17	17	17	16	17	18	18	18	17	17	15	11	7	4	6	5	calm	6		13.6	19.2
26-Aug-05	8	9	10	7	6	6	4	7	9	8	8	4	5	3	4	6	9	9	7	1	1	3	5	4		4.8	10.4
27-Aug-05	4	3	5	6	3	5	3	2	5	6	4	2	5	5	4	4	5	3	2	3	4	5	4	5		3.0	5.9
28-Aug-05	4	2	calm	2	5	3	2	3	7	9	15	12	14	12	10	12	9	4	1	3	4	8	6	3		3.9	15.4
29-Aug-05	2	1	1	2	5	7	5	4	1	4	19	19	19	16	14	17	15	8	10	14	16	16	13	5		3.0	19.3
30-Aug-05	2	6	8	7	5	5	4	6	7	9	9	5	7	8	10	10	11	8	5	1	2	3	6	5		5.3	11.1
31-Aug-05	6	6	6	3	4	8	6	8	8	8	9	9	8	10	9	8	8	7	5	6	6	6	4	3		3.1	9.7
1-hr Vector	1.0	1.3	1.2	0.9	1.5	1.6	1.3	2.1	1.7	2.3	3.5	3.0	4.2	4.6	4.9	5.4	5.8	6.4	5.7	4.4	3.4	1.9	1.1	0.2			
Hourly Max	18.1	19.1	22.4	21.7	19.8	18.4	16.9	17.0	16.8	16.5	19.3	19.2	19.2	18.1	17.4	17.0	16.7	30.0	20.6	23.0	22.9	21.9	18.9	18.2			



PAS - Cresent Heights Wind Direction Monthly Summary

HOURLY AVERAGE TABLE

Wind Direction (WD)

Station: Cresent Heights
Station Owner: PAS

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	742 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.7%				
Percentile	99	95	75	50	25	5	1	Average
	355.4	342.4	289.3	222.8	105.7	20.0	4.4	301 deg

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	WD Sector	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Aug-05	52	121	130	330	47	150	63	111	121	113	170	137	154	167	199	189	195	246	211	239	237	238	235	248	196	SSW	
2-Aug-05	242	247	318	305	290	276	303	305	11	148	179	198	210	233	242	256	324	6	17	60	102	82	97	92	314	NW	
3-Aug-05	357	2	256	257	336	310	233	322	18	22	285	302	290	280	279	275	273	316	329	342	340	334	334	93	314	NW	
4-Aug-05	124	130	126	115	144	141	139	81	120	168	202	209	204	198	198	205	207	200	202	195	172	182	230	230	192	SSW	
5-Aug-05	236	216	231	231	236	238	255	232	227	245	238	274	297	305	304	292	295	314	344	8	111	122	124	126	254	WSW	
6-Aug-05	139	161	217	32	341	157	224	209	225	211	222	236	241	233	228	237	258	236	237	253	37	86	108	116	211	SSW	
7-Aug-05	108	133	192	221	233	241	250	269	279	290	292	315	332	339	344	351	8	13	16	17	17	21	28	60	331	NNW	
8-Aug-05	51	62	64	86	77	84	86	76	84	99	88	66	77	83	77	85	83	47	67	96	61	53	85	60	76	ENE	
9-Aug-05	73	301	22	355	320	3	1	19	97	116	115	111	80	76	87	83	79	73	68	71	74	120	114	58	77	ENE	
10-Aug-05	53	33	42	61	87	78	58	24	67	101	100	55	46	52	64	64	52	54	56	67	52	D	D	0	58	ENE	
11-Aug-05	353	332	304	274	279	270	249	247	249	251	253	275	280	296	316	311	319	347	340	303	301	307	303	310	292	WNW	
12-Aug-05	324	353	353	360	359	353	346	349	356	343	349	348	351	330	321	308	315	325	326	328	324	332	348	321	339	NNW	
13-Aug-05	254	242	234	219	239	234	218	222	217	214	244	252	251	249	249	242	248	240	239	235	244	242	244	235	238	WSW	
14-Aug-05	242	237	242	303	267	345	36	290	130	196	201	174	200	243	230	194	32	27	33	44	47	48	61	68	38	NE	
15-Aug-05	75	66	38	349	4	46	19	40	85	69	46	44	54	49	38	58	55	57	63	33	50	57	70	78	52	NE	
16-Aug-05	39	49	69	91	109	114	119	121	113	310	286	299	355	2	21	25	40	61	50	52	42	27	30	9	56	NE	
17-Aug-05	20	90	82	23	9	8	35	36	28	24	26	45	346	341	347	348	346	341	339	326	320	305	309	298	358	N	
18-Aug-05	294	287	281	295	288	289	285	253	263	255	241	238	248	253	268	266	254	312	324	315	308	283	248	265	276	W	
19-Aug-05	252	243	263	252	237	253	278	301	323	326	289	297	293	302	312	298	315	337	4	43	110	139	120	126	296	WNW	
20-Aug-05	146	121	149	126	133	125	143	121	150	189	224	219	224	209	223	225	209	220	254	136	212	242	226	217	208	SSW	
21-Aug-05	190	190	207	181	201	185	202	219	228	240	227	217	223	226	223	226	250	258	260	240	207	188	209	208	221	SW	
22-Aug-05	223	241	239	265	313	264	273	314	348	13	6	14	20	5	353	6	360	7	42	37	37	50	127	343	350	N	
23-Aug-05	8	58	85	104	116	120	152	115	72	105	106	104	179	267	249	276	297	320	314	321	326	286	294	260	40	NE	
24-Aug-05	235	230	216	226	214	222	213	207	208	229	268	322	318	302	292	287	291	292	305	301	300	303	303	296	277	W	
25-Aug-05	293	290	291	278	269	277	285	289	289	294	304	305	300	306	304	294	299	298	294	266	250	241	5	221	290	WNW	
26-Aug-05	233	236	235	218	219	211	215	216	224	228	219	227	230	202	202	251	292	305	339	344	198	184	132	164	232	SW	
27-Aug-05	166	191	223	229	213	240	216	203	234	241	221	141	139	161	154	146	115	146	131	112	111	126	138	132	174	S	
28-Aug-05	126	143	106	356	346	8	128	205	220	223	220	213	220	244	258	250	254	243	116	115	105	116	124	119	217	SW	
29-Aug-05	98	108	273	337	0	18	37	14	355	230	173	172	190	184	209	290	298	308	310	317	323	335	350	83	280	W	
30-Aug-05	207	257	291	301	311	303	289	305	327	338	359	308	290	292	306	318	322	322	4	12	239	212	241	219	303	WNW	
31-Aug-05	208	220	231	86	185	231	238	230	240	244	238	250	301	310	300	305	315	339	4	30	77	116	102	117	266	W	
Hourly Avg	293	247	260	280	266	248	264	263	259	249	243	268	277	284	284	287	318	340	355	360	8	6	27	304			



PAS - Cresent Heights Standard Deviation of Wind Direction Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	742 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	99.7%			
Percentile	99	95	75	50	25	5	1
	54.0	39.8	19.3	12.3	8.6	5.7	4.4

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

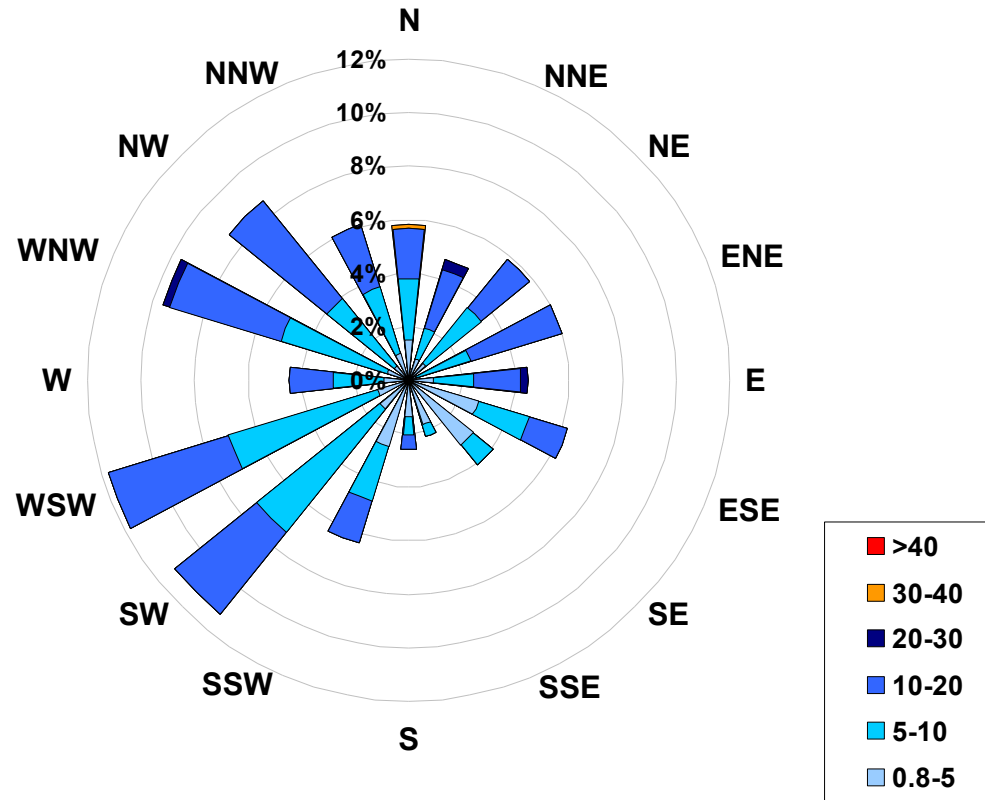
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Aug-05	26	20	7	41	49	18	32	52	82	18	54	62	13	12	18	18	15	25	26	9	8	10	12	7	
2-Aug-05	15	10	8	9	16	24	10	21	45	69	33	53	39	26	24	18	18	6	6	12	8	8	21	23	
3-Aug-05	13	26	46	30	26	33	20	27	29	28	52	40	31	34	26	29	17	19	9	7	4	7	24	40	
4-Aug-05	15	17	12	19	16	16	22	40	18	29	25	14	17	15	11	12	11	9	9	4	7	8	21	6	
5-Aug-05	8	5	47	6	5	7	10	5	8	12	10	18	16	18	17	20	20	18	18	10	23	13	6	8	
6-Aug-05	8	15	13	24	56	40	31	26	18	13	36	21	19	24	17	25	26	11	9	23	18	14	8	13	
7-Aug-05	11	11	16	13	4	7	10	10	11	13	18	19	16	18	22	17	21	13	8	4	4	5	6	8	
8-Aug-05	7	11	8	8	12	12	16	12	10	13	13	14	17	21	21	13	9	12	12	20	18	15	6	8	
9-Aug-05	23	38	15	9	10	32	24	37	44	12	12	12	16	9	9	7	7	7	7	7	6	16	27	10	
10-Aug-05	18	6	12	9	8	9	7	24	5	10	23	26	7	7	9	10	8	8	9	9	11	N	N	10	
11-Aug-05	11	9	15	14	13	12	10	13	11	11	8	10	10	12	11	10	9	9	8	10	10	9	9	9	
12-Aug-05	6	8	6	6	6	5	5	7	8	12	10	7	12	14	12	12	12	10	9	9	6	6	12	18	
13-Aug-05	16	5	8	5	7	8	8	8	10	11	15	15	20	22	17	12	10	9	6	8	8	5	5	7	
14-Aug-05	8	6	17	39	54	40	16	44	33	51	37	25	47	46	34	29	22	7	6	7	7	7	7	8	
15-Aug-05	17	48	15	7	17	46	12	13	13	19	21	28	24	33	13	16	9	12	12	6	8	6	6	8	
16-Aug-05	7	5	7	5	6	6	6	7	15	33	26	44	23	22	20	18	20	16	10	5	6	9	13	8	
17-Aug-05	9	9	16	8	5	5	11	15	17	21	23	27	25	11	9	6	6	7	7	7	9	11	10	13	
18-Aug-05	10	10	11	10	11	10	15	11	14	12	16	13	18	13	14	16	13	10	6	9	12	17	8	11	
19-Aug-05	8	11	11	8	5	8	10	18	20	31	28	25	29	19	19	20	16	11	8	11	10	13	15	20	
20-Aug-05	22	13	25	11	22	41	43	18	23	31	22	28	21	24	13	13	19	23	24	27	22	15	14	11	
21-Aug-05	14	16	10	10	11	9	8	9	4	10	8	11	13	12	17	15	18	15	10	8	16	18	13	27	
22-Aug-05	35	6	5	11	13	18	17	17	13	18	19	25	16	18	15	14	11	7	9	6	7	27	23	23	
23-Aug-05	8	11	11	7	9	16	32	28	35	12	11	24	40	33	17	11	9	8	10	12	18	10	14	11	
24-Aug-05	10	10	9	10	7	9	12	14	35	17	19	7	8	9	9	7	7	7	8	9	7	6	8	8	
25-Aug-05	7	7	7	7	8	7	6	8	9	9	10	11	12	12	11	11	12	11	10	10	5	10	66	14	
26-Aug-05	5	3	3	5	5	7	9	9	12	15	15	45	33	50	27	21	15	13	7	32	44	14	9	13	
27-Aug-05	16	10	11	7	12	8	16	19	18	22	33	44	27	27	27	31	18	14	20	6	8	8	13	14	
28-Aug-05	7	13	40	21	7	24	31	19	12	13	9	13	13	15	17	12	11	16	16	21	9	5	7	9	
29-Aug-05	14	40	57	16	19	7	8	26	55	47	7	9	9	10	12	11	11	12	11	9	11	11	12	39	
30-Aug-05	38	35	14	13	16	14	19	14	13	11	13	24	18	19	17	17	10	11	12	30	21	29	11	14	
31-Aug-05	9	7	8	41	26	6	9	10	15	17	18	35	24	22	22	26	26	16	8	4	9	7	9	10	

Daily Maximum
81.7
68.5
51.5
40.4
46.7
55.8
21.8
21.1
43.7
26.5
14.8
18.2
22.1
53.9
48.3
43.7
26.6
18.0
31.4
42.7
27.3
34.6
40.2
34.8
65.7
50.4
44.0
40.4
57.4
38.2
41.5

Hourly Max	38	48	57	41	56	46	43	52	82	69	54	62	47	50	34	31	26	25	26	32	44	29	66	40
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1-hr Average Wind Rose (in km/hr) Located at the Cresent Heights Site for August 2005



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	< 5		162
5	to 10		294
10	to 20		275
20	to 30		7
30	to 40		1
	> 40		0
Total Non-Zero Values			739



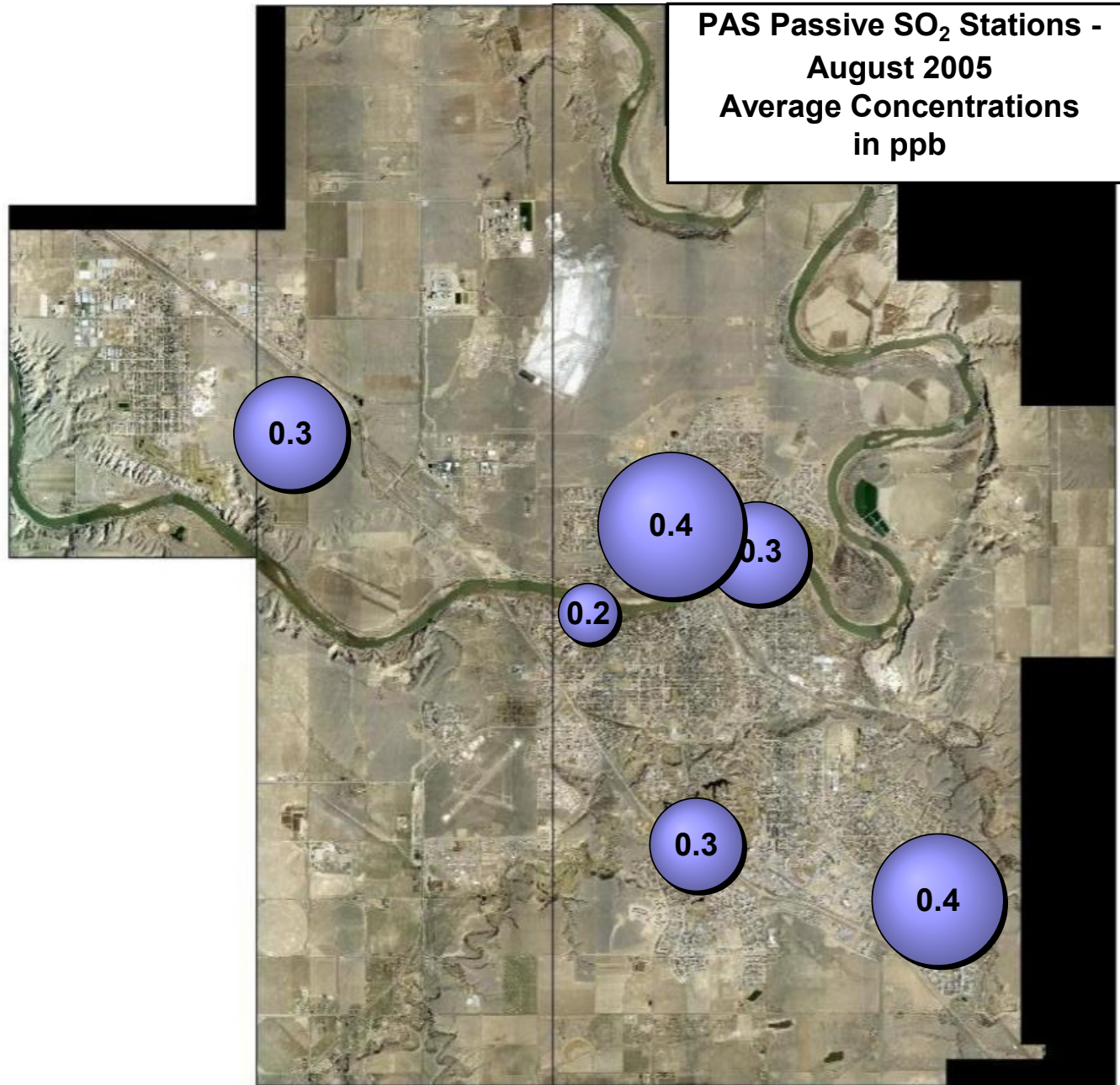
Passive Monitoring – August 2005

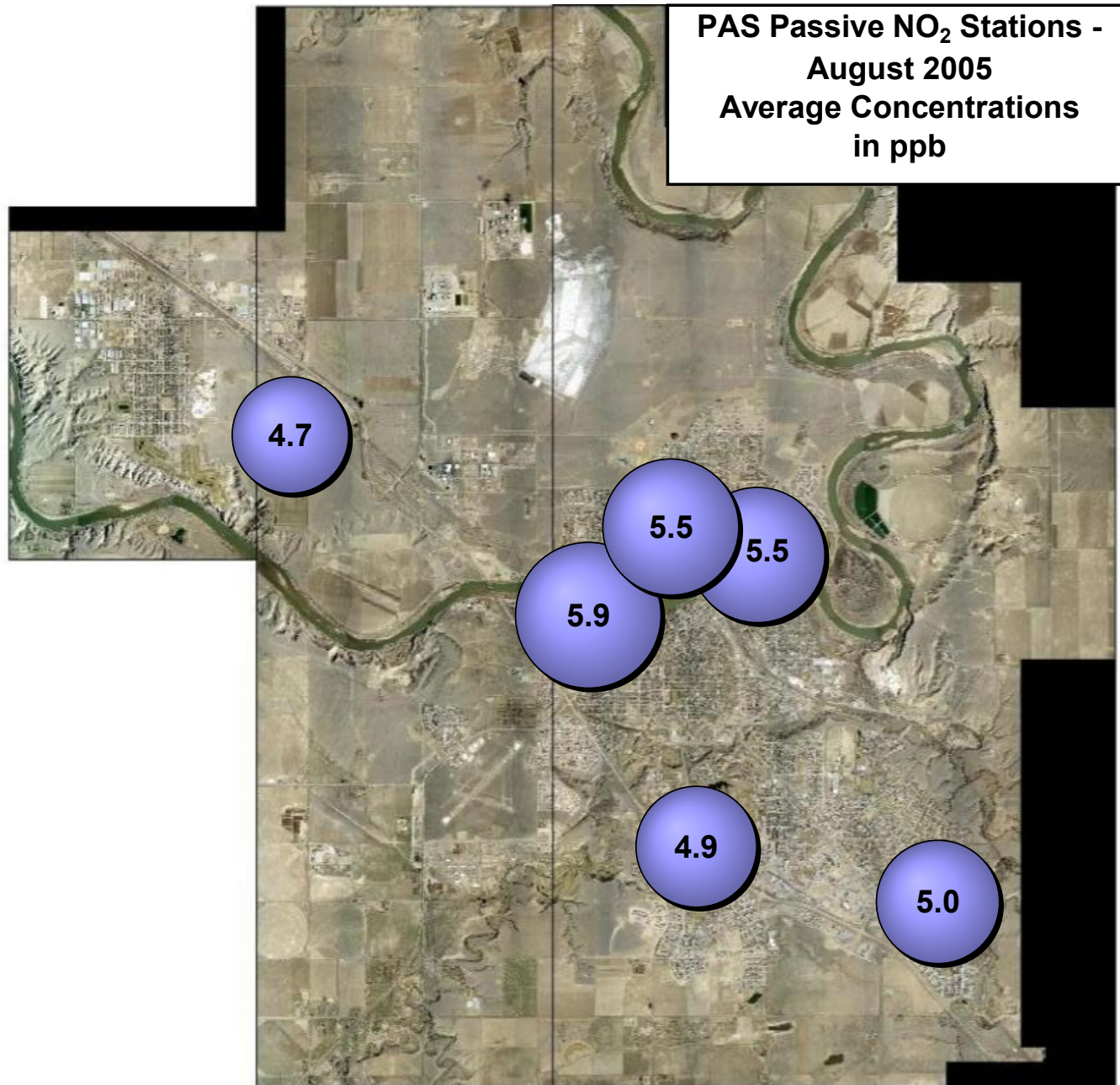
Ambient Air Compliance Network

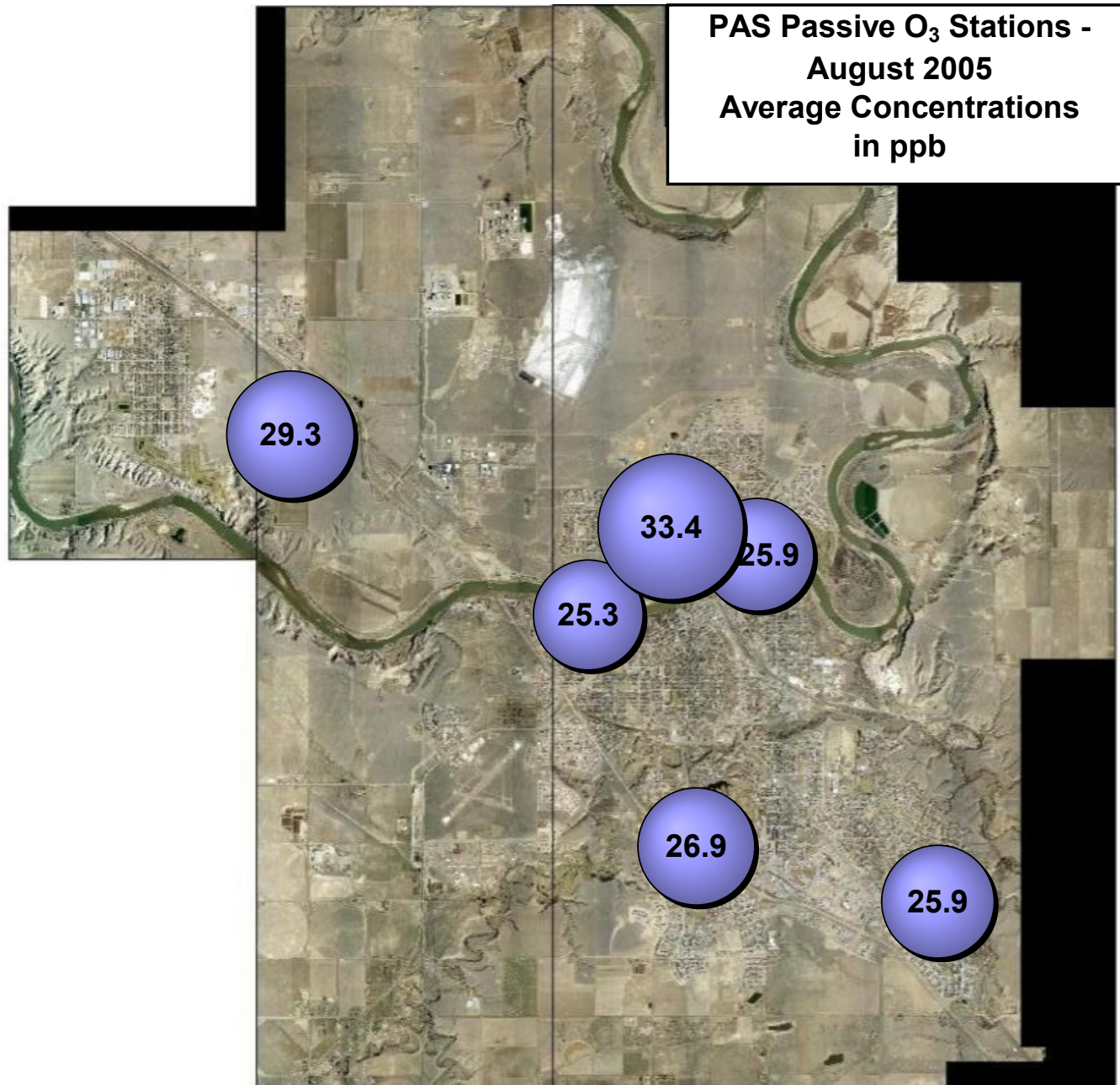


Palliser Airshed Society - PAS Passive Stations for August 2005

Station Number	Station Name	SO ₂ ppb	O ₃ ppb	NO ₂ ppb	Easting	Northing	Elevation
Duplicates							
5a	Monitoring Station	0.2	27.4	5.3			
5b		0.3	26.5	4.5			
1	Hospital	0.2	25.3	5.9	521648	5542721	698
2	Ball Park	0.3	25.9	5.5	524019	5543686	660
3	Monitoring Station	0.4	33.4	5.5	522812	5544133	714
4	Redcliff	0.3	29.3	4.7	517448	5545608	725
5	Southridge	0.3	26.9	4.9	523172	5539016	721
6	Christian School Park	0.4	25.9	5.0	526577	5538133	709
Stats:							
	Mean	0.3	27.8	5.2			
	Standard Deviation	0.1	3.1	0.4			
	Minimum	0.2			1	Hospital	
	Maximum	0.4			3	Monitoring Station	
	Minimum		25.3		1	Hospital	
	Maximum		33.4		3	Monitoring Station	
	Minimum			4.7	4	Redcliff	
	Maximum			5.9	1	Hospital	







August 2005 - Calibration Reports

PAS - Crescent Heights Station:

O₃, NO_x, NO, NO₂, THC, CO, PM_{2.5}, and Wind Speed / Wind Direction

Calibration Report

Parameter 03
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	August 23, 2005	Previous Calibration	July 25, 2005
Station Number	1	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	19:00	End Time (MST)	22:10
Barometric Pressure	0.911 ATM	Station Temperature	20.5 Deg C
Calibrator	Envionics 6100	Serial Number	3016
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	NA
DACS voltage range	0 - 1 volt	DACS channel #	5
	Before		After
DACS slope	0.050000	DACS slope	0.050000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope	1.002594	Calculated slope	0.991858
Calculated intercept	1.097165	Calculated intercept	2.557796
Analyzer make	API Model 400E	Analyzer serial #	331

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background coefficient	-5.3	ppb	-4.7	ppb
Lamp measure	1.075		0.997	
Lamp Reference	2759.0	mV	2722.0	mV
Pressure	2759.7	mV	2724.4	mV
Sample Flow	26.0	inches Hg	25.8	inches Hg
Lamp temp	732	ccm	727	ccm
	52	Deg C	52	Deg C

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4995	0.00	0.0	-0.3	N/A
4995	0.00	293.0	294.6	0.9946
4995	0.00	196.9	194.6	1.0116
4995	0.00	102.2	97.7	1.0459
4995	0.00	0.0	4.5	0.0000
4995	0.00	293.0	264.1	1.1094
Average Correction Factor				1.0174

Calculated value of As Found Response: 261.3 ppm Percent Change of As Found: -10.8%

	before calibration		after calibration	
Auto zero	0.2	ppb	0.0	ppb
Auto span	357.1	ppb	362.3	ppb

Notes: Both zero and span adjustments performed.

Calibration Performed By: Kelly Baragar

Calibration Summary



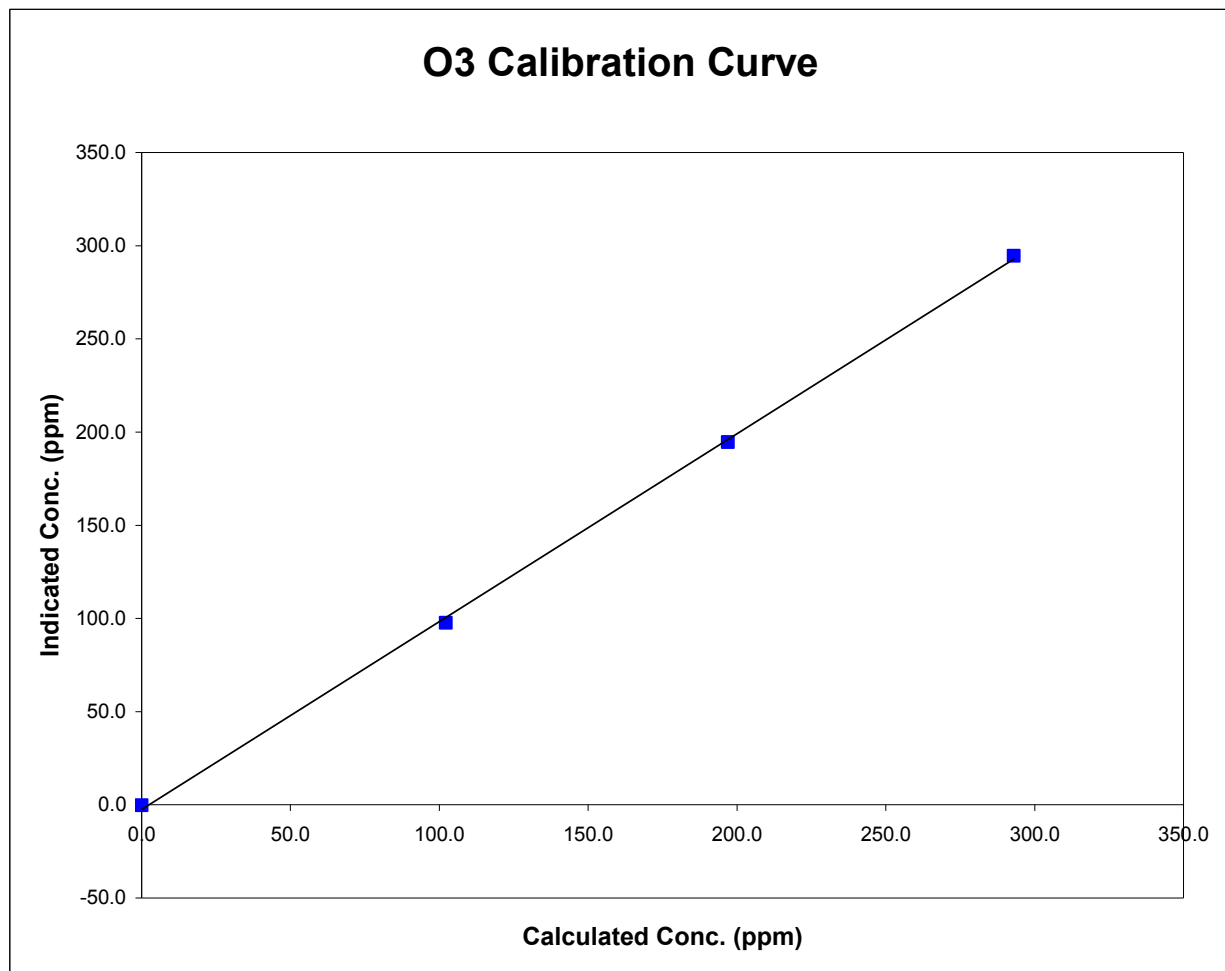
Parameter O3
Air Monitoring Network Palliser Airshed

Station Information

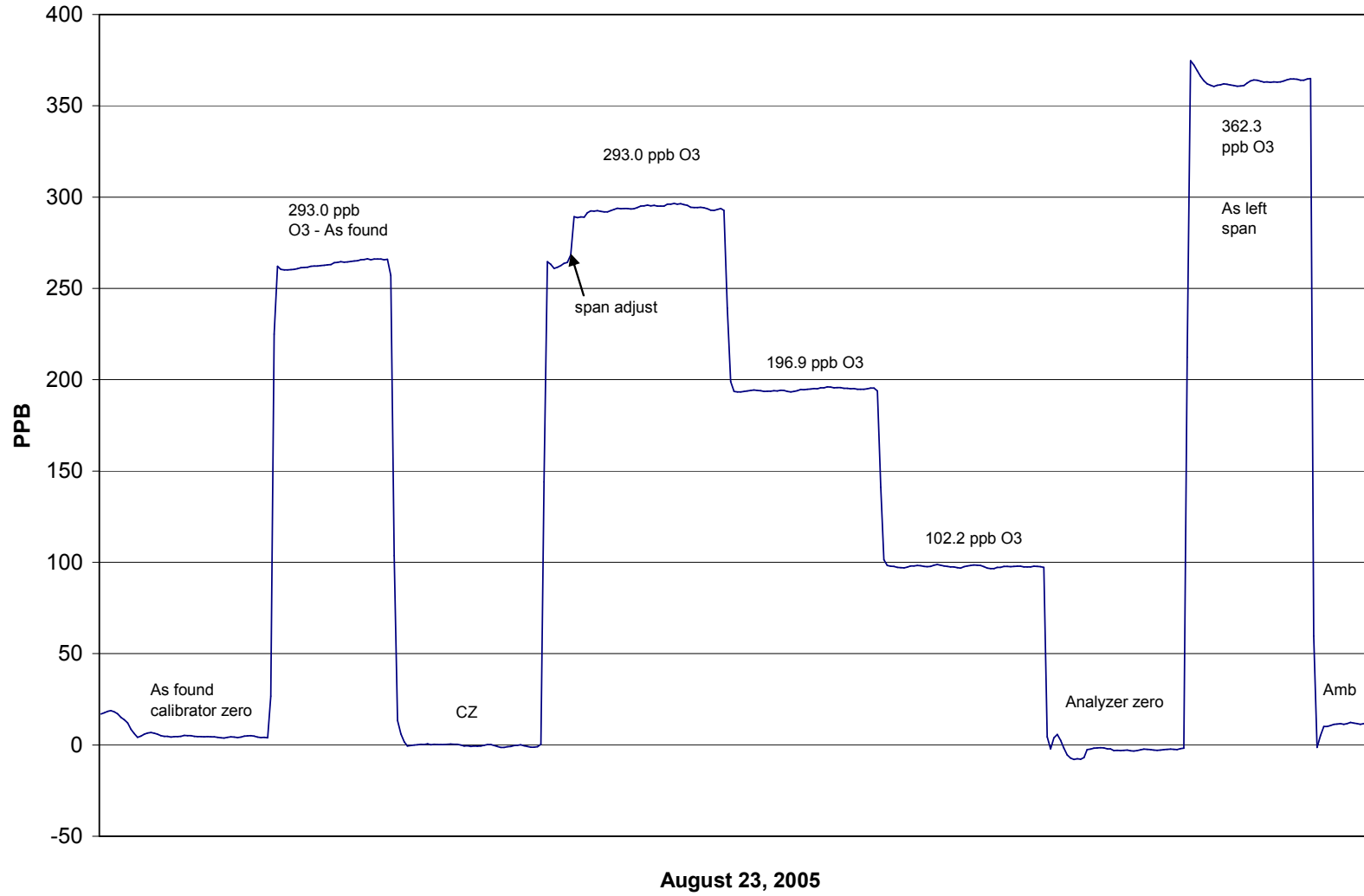
Calibration Date	<u> August 23, 2005 </u>	Previous Calibration	<u> July 25, 2005 </u>
Station Number	<u> 1 </u>	Station Location	<u> Crescent Heights </u>
Start Time (MST)	<u> 19:00 </u>	End Time (MST)	<u> 22:10 </u>
Analyzer make/model	<u> API Model 400E </u>	Analyzer serial #	<u> 331 </u>

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
293.0	294.6	0.9946		
196.9	194.6	1.0116	Correlation Coefficient	0.999637
102.2	97.7	1.0459		
0.0	-0.3	N/A	Slope	0.991858
			Intercept	2.557796



O3 Calibration



Calibration Report

Parameter **NOx-NO-NO₂**
 Air Monitoring Network **Palliser Airshed**



Station Information

Calibration Date August 23, 2005 Previous Calibration July 25, 2005
 Station Number 1 Station Location Crescent Heights

Reason: Routine Installation Removal Other: _____

Start Time (MST) 15:00 End Time (MST) 19:55
 Barometric Pressure 0.911 ATM Station Temperature 19.5 Deg C
 Calibrator Envionics 6100 Serial Number 3016
 NO Cal Gas Conc 49.8 ppm Cal Gas Expiry Date 12-Dec-05
 NOx Cal Gas Conc 49.8 ppm Cal Gas Serial # ALM011558

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45270

Parameter		NO2	NOx	NO
Before	DACS slope	0.050000	0.050000	0.050000
	DACS offset	0.000000	0.000000	0.000000
After	DACS slope	0.050000	0.050000	0.050000
	DACS offset	0.000000	0.000000	0.000000
Before	Data Slope	1.006548	0.998057	0.995388
	Data Offset	-2.887676	-2.544346	-1.071806
After	Data Slope	1.001868	0.995950	0.992593
	Data Offset	-1.375140	-0.766117	0.296495
Channel #		8	6	7
Voltage Range		0 - 1 VDC	0 - 1 VDC	0 - 1 VDC

Analyzer Information

Analyzer make/model API Model 200E Analyzer serial # 219

Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO background	-0.5	mV	-0.5	mV
NOx background	0.4	mV	0.4	mV
NO coefficient	1.855		1.954	
NOx coefficient	1.881		1.970	
Chamber Temp	50.0	Deg C	50.0	Deg C
Cooler Temp	7.0	Deg C	7.0	Deg C
Azero	32.6		32.9	
Perm Temp	40.0	Deg C	40.0	Deg C
Pressure	4.1	inches Hg	4.0	inches Hg
Sample Flow	459.0	ccm	455.0	ccm

Notes: Analyzer was span adjusted.

Calibration Report

Parameter **NO_x-NO-NO₂**
Air Monitoring Network **Palliser Airshed**



Station Information

Calibration Date: August 23, 2005 Station Location: Crescent Heights

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor
zero	4993	0.00	0.0	0.0	0.0	1.0	0.1	0.8	N/A	N/A
1	4993	39.97	395.5	395.5	0.0	397.9	398.2	0.1	0.9939	0.9931
2	4993	19.97	198.4	198.4	0.0	200.1	199.6	0.3	0.9914	0.9937
3	4993	9.97	99.2	99.2	0.0	100.0	99.1	0.7	0.9927	1.0010
AFZ	4993	0.00	0.0	0.0	0.0	1.0	0.1	0.8	0.0000	0.0000
AFS	4993	39.97	395.5	395.5	0.0	376.5	376.4	0.4	1.0505	1.0507
Average Correction Factor									0.9927	0.9960

As Found Concentrations NO_x= 372.9 NO= 375.3 As Found Percent Change NO_x= -5.7% NO= -5.1%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	398.0	394.1	3.9	398.6	396.8	0.8	N/A	N/A	N/A	N/A
350	398.0	105.0	293.0	399.4	105.5	293.3	0.9966	0.9954	0.9988	100.1%
200	398.0	201.1	196.9	400.3	202.4	198.2	0.9942	0.9941	0.9932	100.7%
100	398.0	295.8	102.2	401.5	297.7	104.1	0.9913	0.9936	0.9823	101.8%
Average Correction Factor							0.9940	0.9944	0.9914	100.9%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	0.2	-1.2	0.2	ppb	0.7	-0.6	1.1	ppb
Auto span	457.0	450.0	9.9	ppb	468.0	458.8	12.0	ppb

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter NO₂
 Air Monitoring Network Palliser Airshed

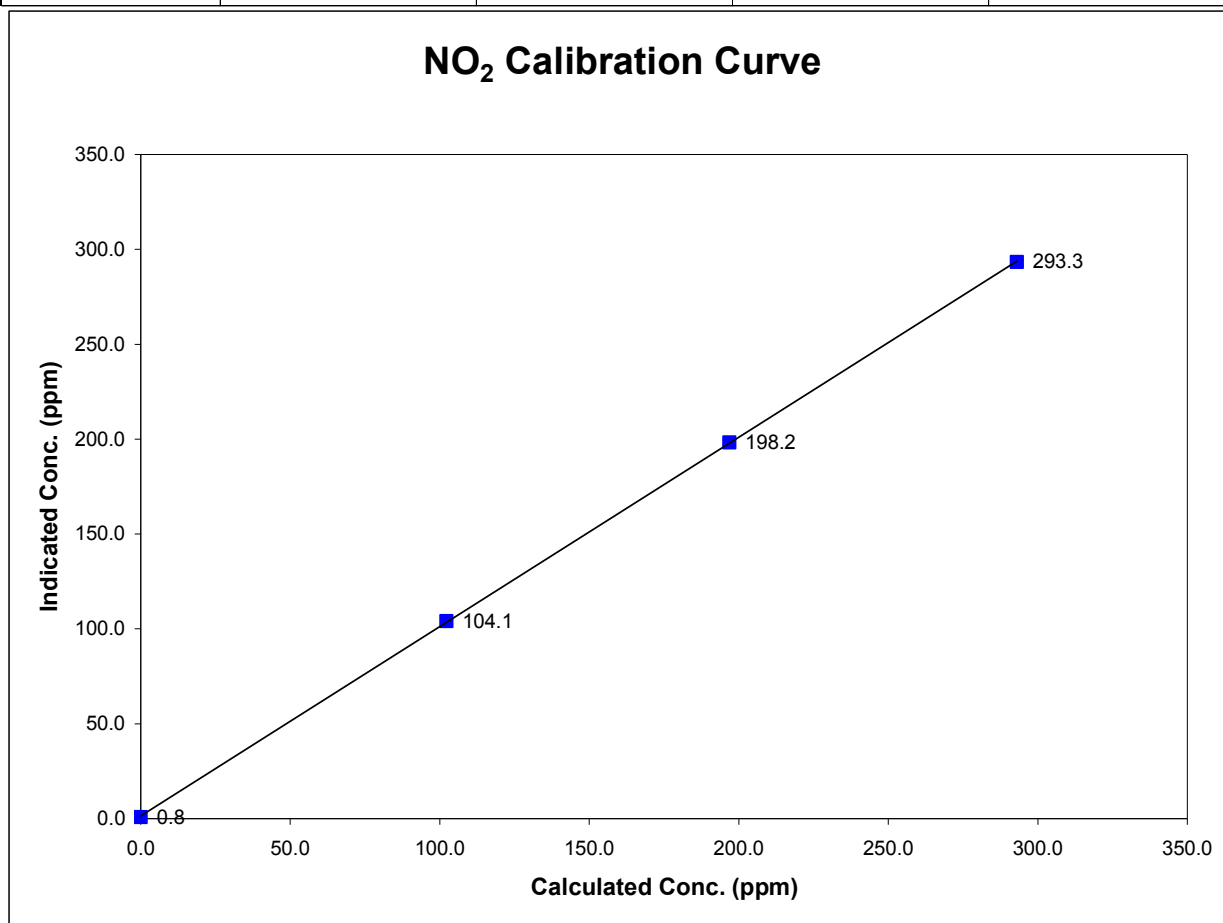


Station Information

Calibration Date	August 23, 2005	Previous Calibration	July 25, 2005
Station Number	1	Station Location	Crescent Heights
Start Time (MST)	15:00	End Time (MST)	19:55
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.8	0.0000	Correlation Coefficient	0.999977
102.2	104.1	0.9823		
196.9	198.2	0.9932		
293.0	293.3	0.9988		
			Slope	1.001868
			Intercept	-1.375140



Calibration Summary

Parameter NO_x
 Air Monitoring Network Palliser Airshed



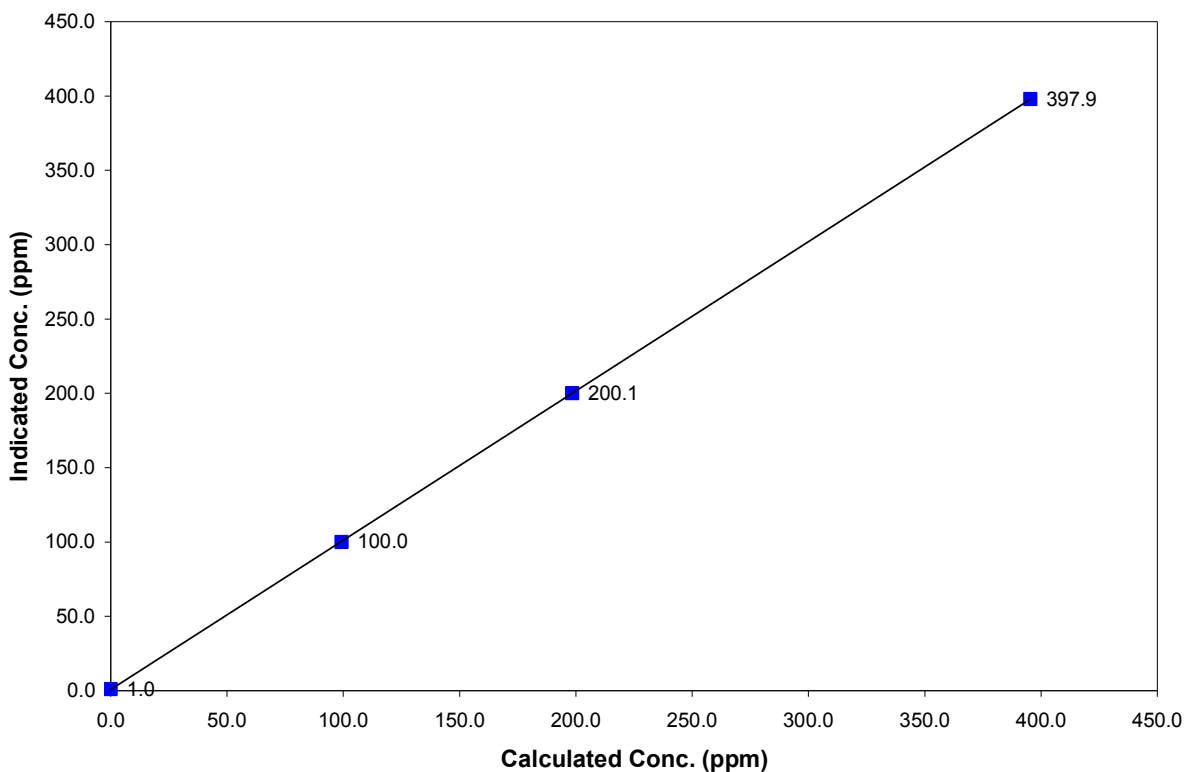
Station Information

Calibration Date	August 23, 2005	Previous Calibration	July 25, 2005
Station Number	1	Station Location	Crescent Heights
Start Time (MST)	15:00	End Time (MST)	19:55
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.0	0.0000		
395.5	397.9	0.9939	Correlation Coefficient	0.999997
198.4	200.1	0.9914		
99.2	100.0	0.9927	Slope	0.995950
			Intercept	-0.766117

NO_x Calibration Curve



Calibration Summary

Parameter NO
 Air Monitoring Network Palliser Airshed

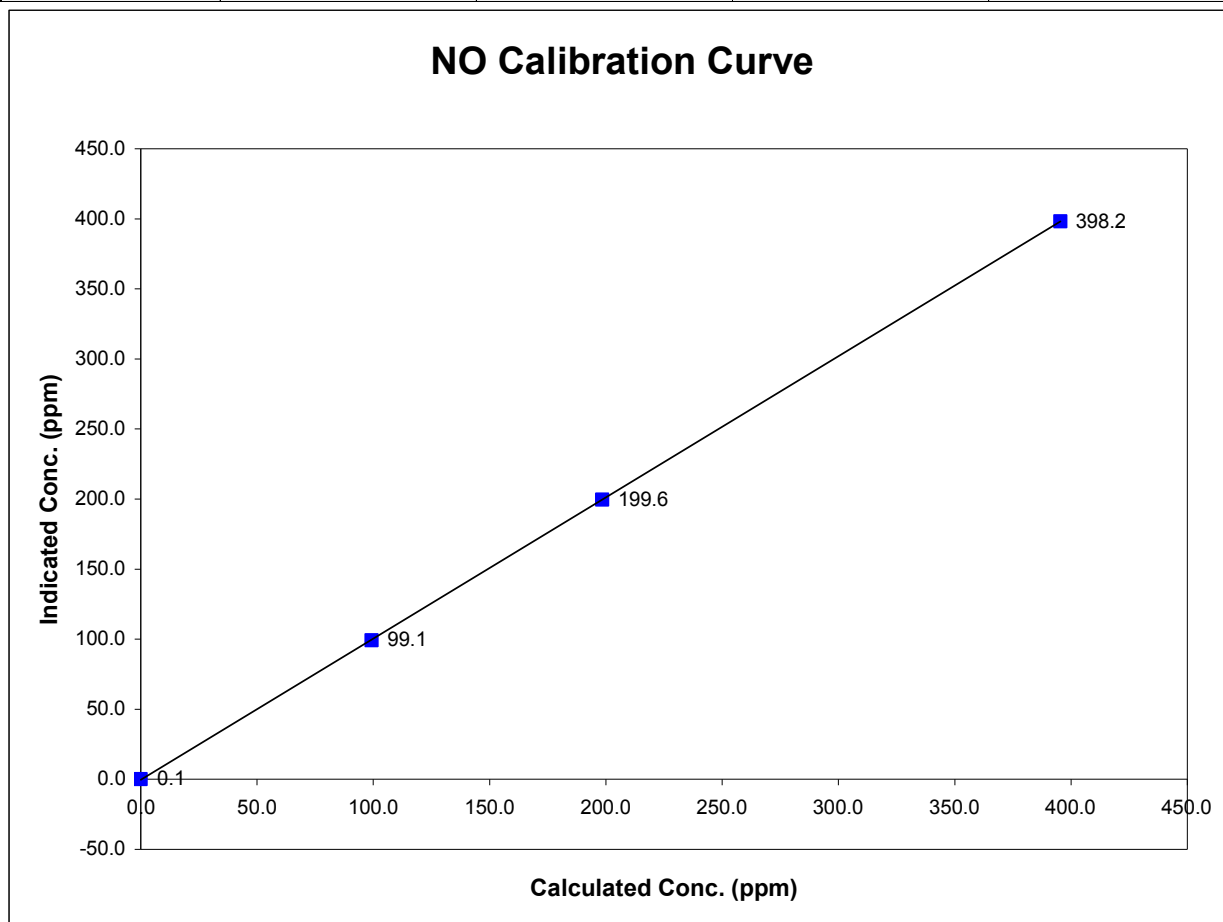


Station Information

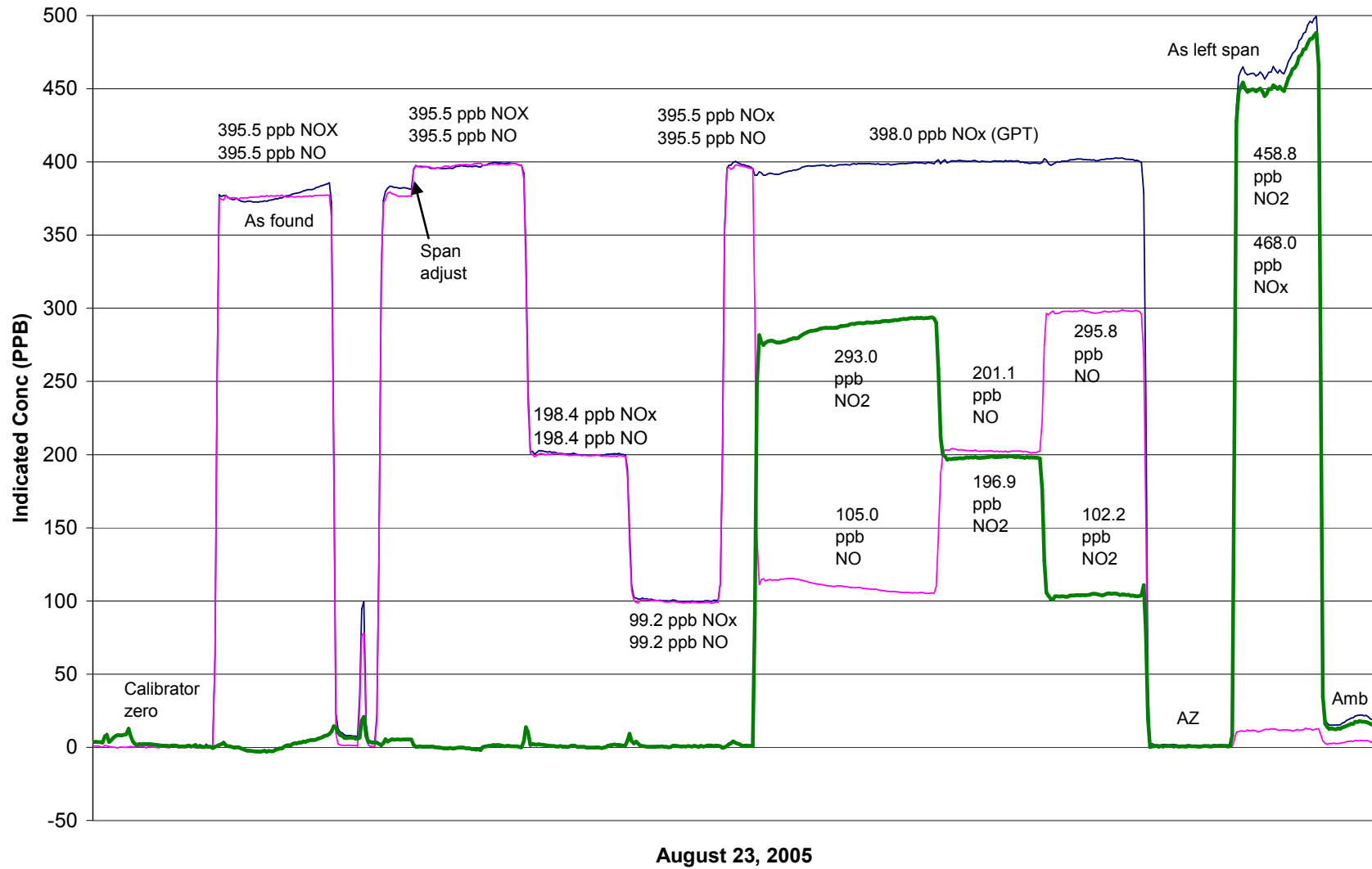
Calibration Date	August 23, 2005	Previous Calibration	July 25, 2005
Station Number	1	Station Location	Crescent Heights
Start Time (MST)	15:00	End Time (MST)	19:55
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	N/A		
395.5	398.2	0.9931	Correlation Coefficient	0.999995
198.4	199.6	0.9937		
99.2	99.1	1.0010	Slope	0.992593
			Intercept	0.296495



NOx Calibration



Calibration Report

Parameter THC
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	August 24, 2005	Previous Calibration	July 25, 2005
Station Number	1	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:42	End Time (MST)	14:00
Barometric Pressure	0.910 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3016
Cal Gas Concentration	700 ppm CH ₄ / 301 ppm C ₃ H ₈	Cal Gas Expiry Date	8/28/2005
Cal Gas CH4 equiv	1527.75 ppm	Cal Gas Cylinder #	ALM030358
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
DACS slope	0.005000	DACS slope	0.005000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope	1.001951	Calculated slope	0.994850
Calculated intercept	-0.083577	Calculated intercept	0.038348
Analyzer make	TEI model 51C-LT	Analyzer serial #	407505596

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
THC sample pressure	5.75	PSI	5.75	PSI
THC span counts	10965	raw	10678	raw
THC zero counts	1784	raw	1639	raw

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
2994	0.00	0.00	0.00	N/A
2994	39.98	20.13	20.23	0.9951
2994	19.98	10.13	10.08	1.0046
2994	9.97	5.07	5.04	1.0058
zero	0.00	0.00	-0.31	As Found Zero
2994	39.98	20.13	19.57	As Found Span
Average Correction Factor				1.0018

Calculated value of As Found Response: 19.827 ppm Percent Change of As Found: 1.5%

	before calibration		after calibration	
Auto zero	0.02	ppm	0.04	ppm
Auto span	23.43	ppm	23.53	ppm

Notes: Analyzer was zero and span adjusted.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter THC
 Air Monitoring Network Palliser Airshed

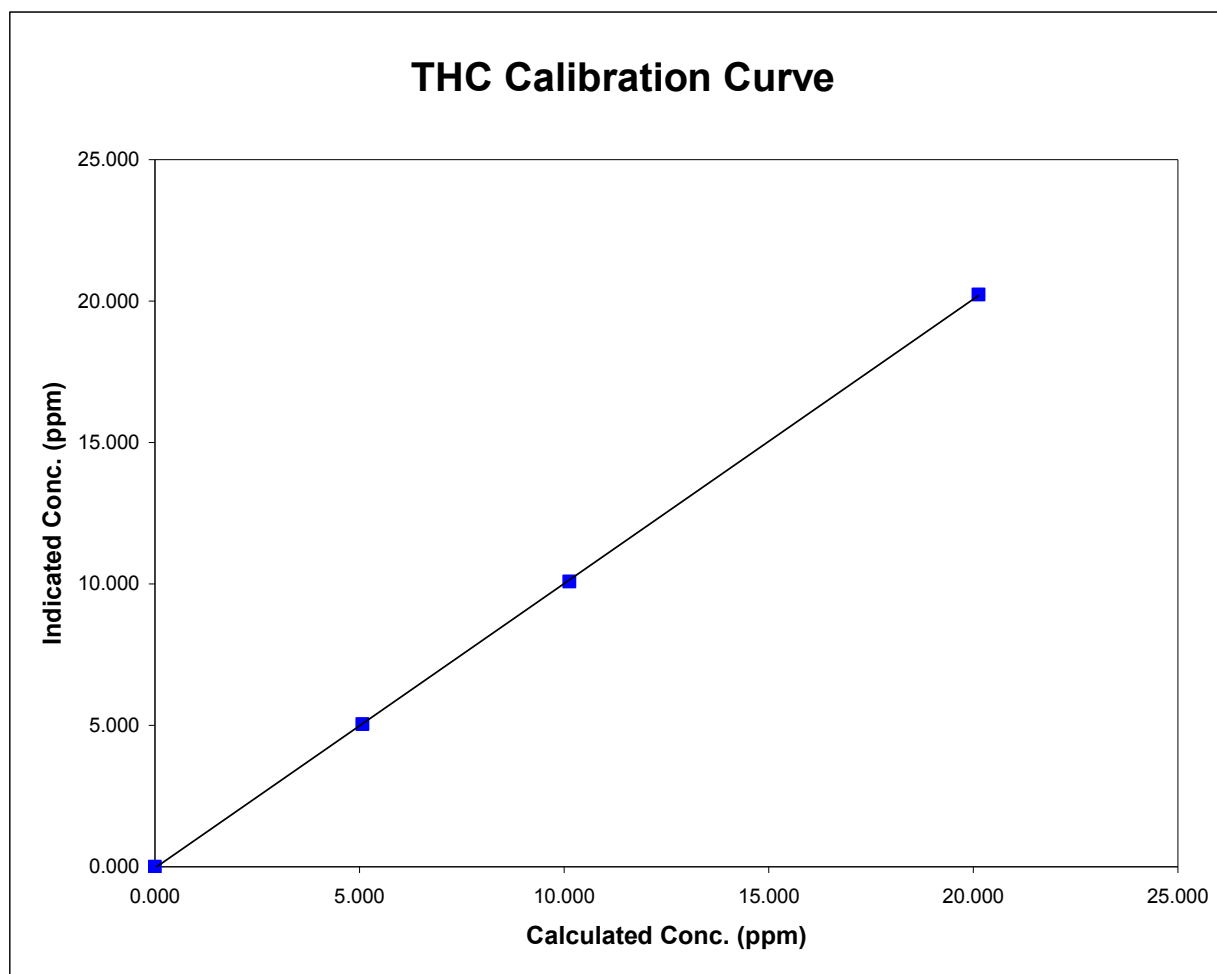


Station Information

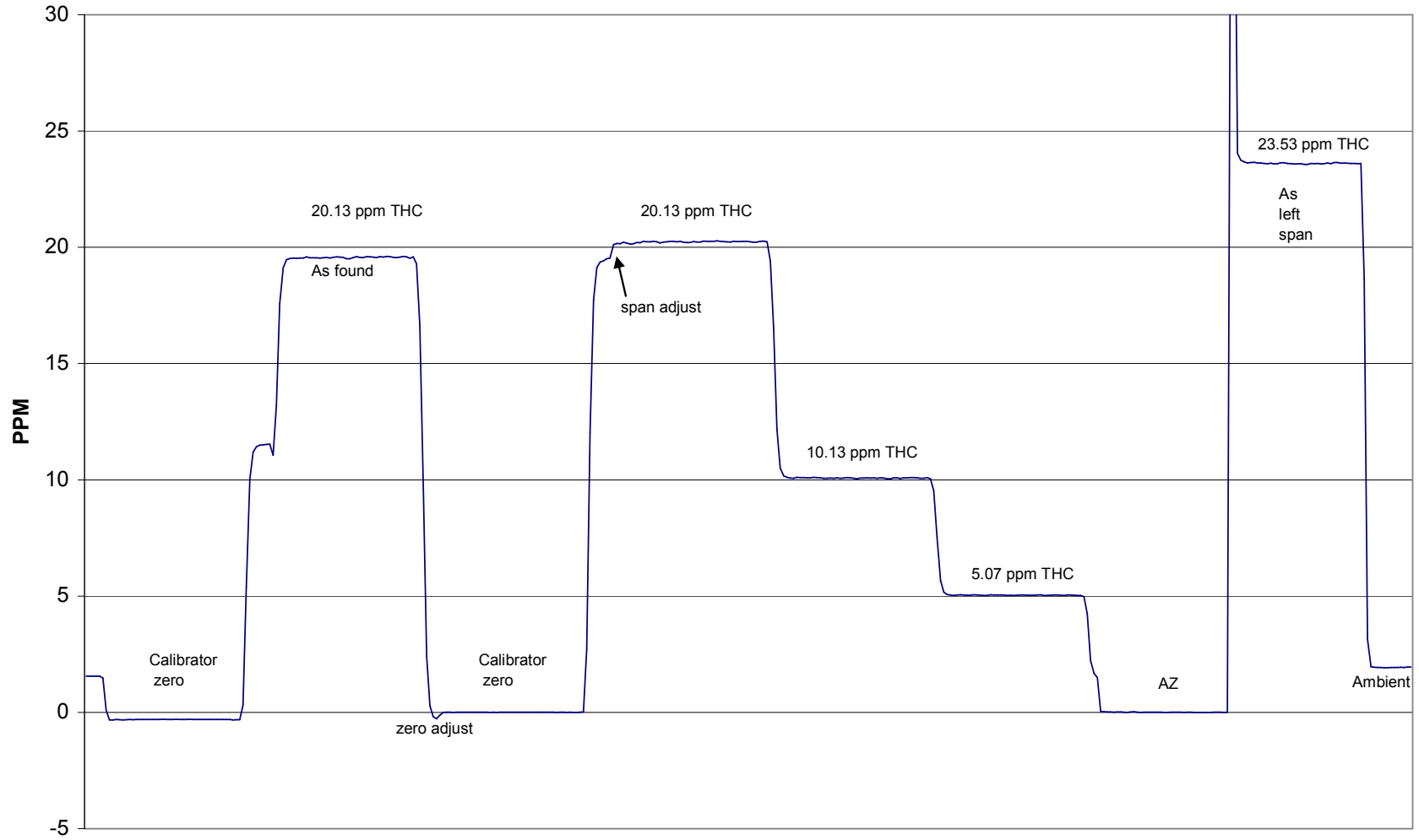
Calibration Date	August 24, 2005	Previous Calibration	July 25, 2005
Station Number	1	Station Location	Crescent Heights
Start Time (MST)	10:42	End Time (MST)	14:00
Analyzer make/model	TEI model 51C-LT	Analyzer serial #	407505596

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.005	N/A		
20.132	20.232	0.9951	Correlation Coefficient	0.999969
10.128	10.081	1.0046		
5.071	5.041	1.0058	Slope	0.994850
			Intercept	0.038348



THC Calibration



August 24, 2005

Calibration Report



Parameter CO
 Air Monitoring Network Palliser

Station Information

Calibration Date	August 24, 2005	Previous Calibration	July 25, 2005
Station Number	1	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	8:00	End Time (MST)	20:30
Barometric Pressure	0.910 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3016
Cal Gas Conc	2998 ppm	Cal Gas Expiry Date	3/14/2008
		Cal Gas Cylinder #	BLM002248
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
DACS slope	0.005000	DACS slope	0.005000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope	1.009148	Calculated slope	0.998465
Calculated intercept	-0.031214	Calculated intercept	0.117233
Analyzer make	TEI Model 48CLT	Analyzer serial #	436609887

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO coefficient	1.015		1.045	
CO bkg setting	4.844		5.945	
Lamp ratio	1.1566		1.1545	
Lamp intensity	199960	Hz	200200	Hz
Sample Flow	1.009	LPM	1.007	LPM

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4993	0.00	0.00	0.00	N/A
4993	49.97	29.71	29.69	1.0007
4993	19.96	11.94	11.74	1.0166
4993	9.97	5.97	5.79	1.0312
4993	0.00	0.00	0.39	0.0000
4993	49.97	29.71	30.03	0.9892
Average Correction Factor				1.0162

Calculated value of As Found Response: 29.876 ppm Percent Change of As Found: -0.6%

	before calibration		after calibration	
Auto zero	0.04	ppm	0.06	ppm
Auto span	19.22	ppm	18.99	ppm

Notes: A zero and span adjustment was performed following an internal A/D calibration.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter CO

Air Monitoring Network Palliser

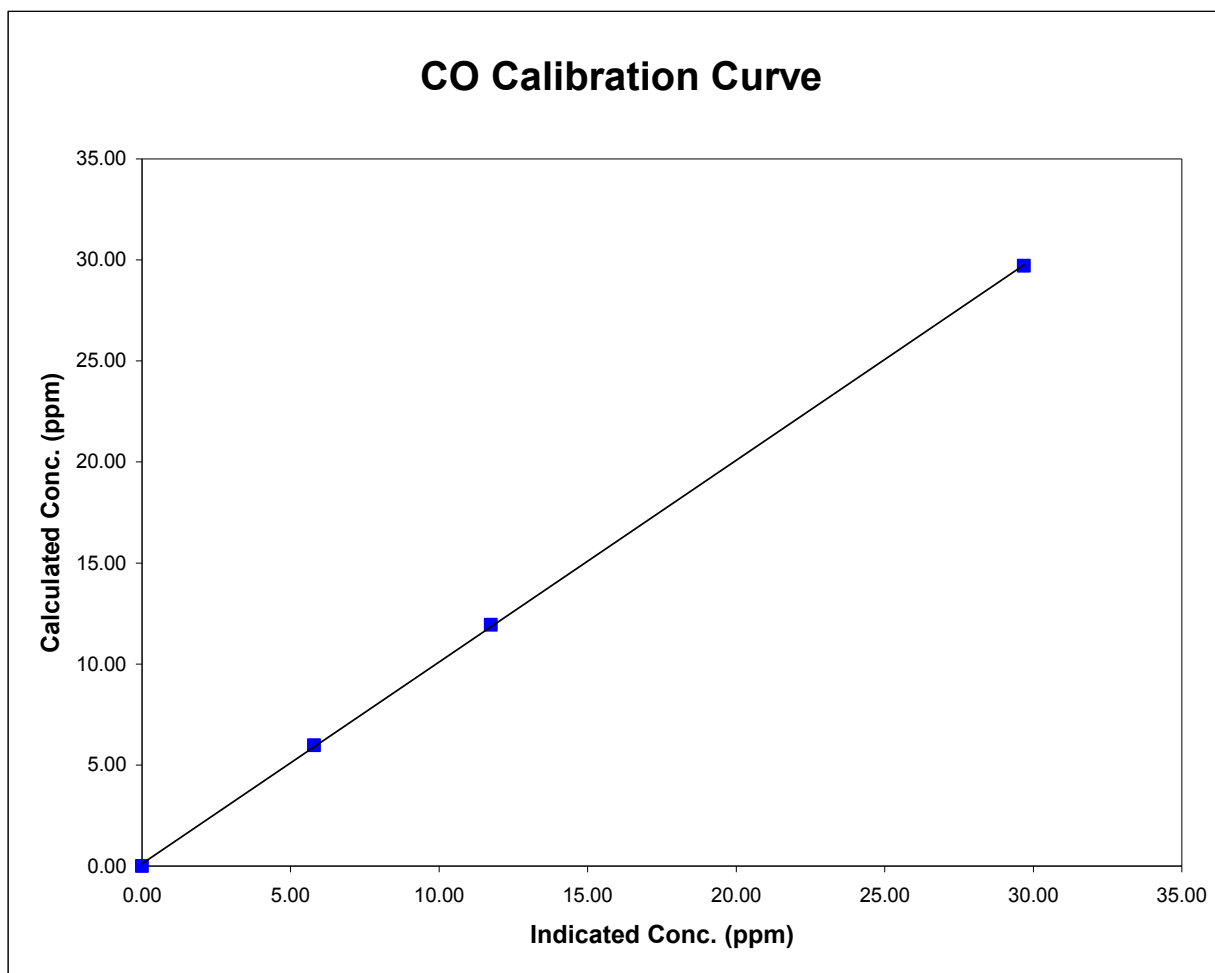


Station Information

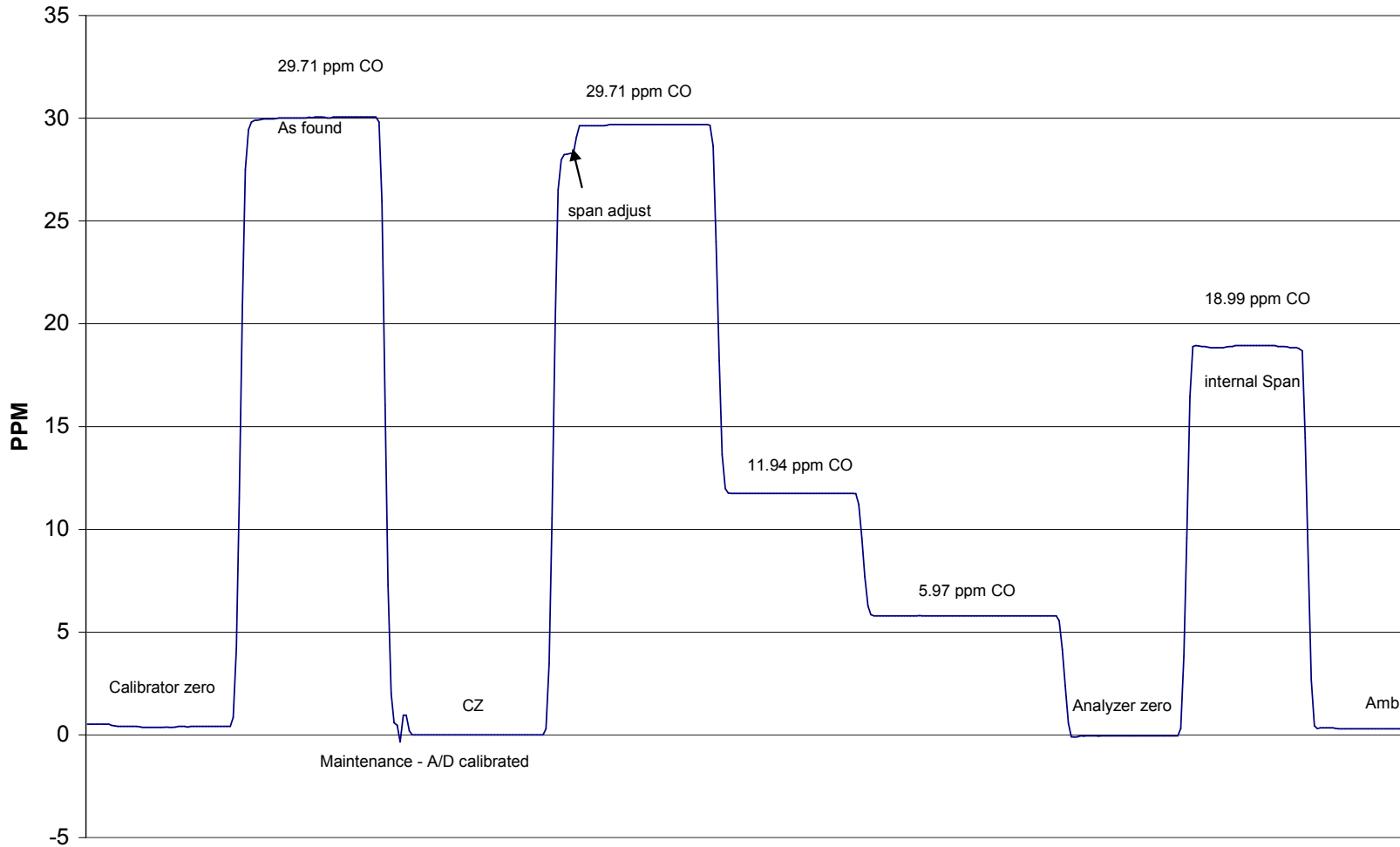
Calibration Date	August 24, 2005	Previous Calibration	July 25, 2005
Station Number	1	Station Location	Crescent Heights
Start Time (MST)	8:00	End Time (MST)	20:30
Analyzer make/model	TEI Model 48CLT	Analyzer serial #	436609887

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.00	0.00	N/A		
29.71	29.69	1.0007	Correlation Coefficient	0.999938
11.94	11.74	1.0166		
5.97	5.79	1.0312	Slope	0.998465
			Intercept	0.117233



CO Calibration



August 24, 2005