Palliser Airshed Society

Ambient Air Monitoring Network Summary

October 2005

Prepared By:

FOCUS
AIR QUALITY MONITORING

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November 9, 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 – October 2005

Enclosed is the PAS Ambient Monitoring Report for the month of **October 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 was greater than 99% uptime for the month of October. There were no significant events leading to emergency response for the month of October.

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

- Monthly average concentrations of NO_2 was 7.5 ppb
- Monthly average concentrations for O_3 was 20.2 ppb
- Monthly average concentrations for CO was 0.14 ppm
- Monthly average concentrations for $PM_{2.5}$ was 2.7 $\mu g/m^3$

Passive Monitoring – Six Stations throughout the PAS zone:
The following are the ranges for October 2005 recorded by the six passive stations located throughout the PAS zone.

- Monthly average concentrations for SO_2 passives ranged from 0.2 ppb to 0.4 ppb
- Monthly average concentrations for NO_2 passives ranged from 4.2 ppb to 9.1 ppb
- Monthly average concentrations for O_3 passives ranged from 18.7 ppb to 27.0 ppb

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

Kelly Baragar, C.T.
AQM Technical Superviser

Kevin McCullum, Ph.D., P.Eng.
AQM Environmental Specialist

2005 Monthly Overall Summary Report

Ambient Air Quality Data

Oct-2005	Palliser Airshed Society						Maximum Recorded Values						
							1-hr				24-hr / 8-hr		
Pollutant	**Objectives**		**Station**	**Monthly**	**Exceedence**		Conc	Day	WSPD	WDIR	Conc	Day	**Operational**
(units)	1-hr	24-hr		**Average**	1-hr	24-hr			(km/hr)	(Sector)			**Time (%)**
NO (**ppb**)			Crescent Heights	4.3	-	-	63.9	Oct-25 08:00	1.0	Calm	19.5	Oct-25	100.0%
NO_2 (**ppb**)	212	106	Crescent Heights	7.5	0	0	32.7	Oct-24 18:00	3.5	S	12.6	Oct-25	100.0%
NO_X (**ppb**)			Crescent Heights	11.7	-	-	79.0	Oct-25 08:00	1.0	Calm	32.0	Oct-25	100.0%
O_3 (**ppb**)	82		Crescent Heights	20.2	0	-	46.2	Oct-01 15:00	17.1	W	30.0	Oct-13	100.0%
O_3 (**ppb**) - **8-hr**	65		Crescent Heights		0						39.6	Oct-01	
CO (**ppm**)	13		Crescent Heights	0.14	0	-	0.8	Oct-19 06:00	3.7	N	0.3	Oct-28	100.0%
THC (**ppm**)			Crescent Heights	2.08	-	-	2.9	Oct-07 23:00	4.7	NW	2.3	Oct-09	100.0%
$PM_{2.5}$ ($\mu g/m^3$)		30 [a]	Crescent Heights	2.7		0	15.7	Oct-24 19:00	4.6	S	8.7	Oct-25	99.5%
RH (**%**)			Crescent Heights	61.8	-	-	-	-	-	-	-	-	100.0%
SR (W/m^2)			Crescent Heights	105.1	-	-	-	-	-	-	-	-	100.0%
Temp (^oC)			Crescent Heights	8.7	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)			Crescent Heights	9.4	-	-	-	Oct-31 12:00	32.8	SSW	16.4	10-Oct	100.0%
WSPD s (km/hr)			Crescent Heights	9.6	-	-	-	Oct-31 12:00	33.0	SSW	18.1	31-Oct	99.9%
WDIR (Deg)			Crescent Heights	N	-	-	-	-	-	-	-	-	100.0%

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

There were no general station issues for the month of October

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	No operational issues observed.
Carbon Monoxide	TEI	49C	ppm	No operational issues observed.
PM 2.5	R&P TEOM	1400ab	$\mu g/m^3$	No operational issues observed.
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: October 1, 2005 to November 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:	708
Number of 1-hr Fair Readings:	0
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-Oct-05	13	16	15	13	11	9	7	3	4	7	A	16	20	19	22	23	22	17	13	12	11	10	11	11
2-Oct-05	9	8	8	8	6	7	5	5	10	A	14	13	14	15	15	16	15	13	11	7	4	6	7	7
3-Oct-05	4	6	8	9	9	8	6	9	A	12	15	18	17	17	16	16	15	14	15	14	11	11	10	10
4-Oct-05	9	7	7	7	7	6	6	A	6	7	8	8	9	11	13	12	12	12	12	10	9	9	9	8
5-Oct-05	8	8	6	3	4	2	A	4	6	10	11	12	13	15	16	16	14	14	15	16	14	14	14	13
6-Oct-05	14	14	A	13	12	11	8	6	10	12	13	A	A	A	A	12	13	11	6	9	8	6	9	9
7-Oct-05	10	10	A	9	9	9	10	6	12	14	13	16	16	16	16	17	16	17	17	14	11	9	8	7
8-Oct-05	10	A	5	6	6	4	5	4	4	8	9	14	18	18	19	18	18	17	15	15	8	4	5	4
9-Oct-05	A	6	4	4	3	3	3	5	6	10	11	13	15	18	17	18	18	16	8	7	6	5	6	A
10-Oct-05	8	5	5	10	11	7	5	11	16	16	17	18	18	19	19	19	19	17	17	18	18	18	A	17
11-Oct-05	16	14	13	10	11	8	5	5	7	11	12	14	16	18	18	17	15	12	11	7	7	A	7	7
12-Oct-05	5	4	3	3	3	3	4	3	5	5	9	18	18	17	17	17	16	14	14	15	A	16	18	19
13-Oct-05	19	18	17	16	13	15	12	11	12	15	16	18	19	20	20	17	20	17	17	A	10	11	8	5
14-Oct-05	5	6	7	8	6	4	4	6	5	9	14	15	17	18	19	17	15	17	A	8	14	14	9	10
15-Oct-05	12	12	12	13	9	9	9	6	9	9	12	13	14	17	20	19	17	A	11	17	15	13	14	14
16-Oct-05	16	16	16	12	12	13	12	13	13	10	11	11	11	11	12	12	A	11	10	9	5	4	3	4
17-Oct-05	6	8	11	10	11	10	8	5	10	7	8	11	12	15	17	A	16	15	13	14	15	14	12	13
18-Oct-05	14	14	15	15	15	8	6	5	8	9	12	14	14	18	A	19	16	8	6	5	7	8	11	10
19-Oct-05	9	7	11	7	4	5	5	4	4	5	7	10	17	A	14	11	8	9	7	8	10	11	10	12
20-Oct-05	8	6	4	3	5	4	4	7	9	9	12	14	A	13	13	14	15	15	12	9	7	5	7	7
21-Oct-05	3	3	5	6	6	5	4	5	8	9	10	A	14	13	14	15	13	7	7	11	9	3	4	3
22-Oct-05	3	3	2	3	4	4	4	4	7	10	A	15	17	19	19	19	17	12	11	13	11	11	11	8
23-Oct-05	4	4	4	4	3	3	4	3	5	A	9	13	15	16	16	15	15	13	11	8	10	10	11	12
24-Oct-05	9	12	10	10	10	6	6	9	A	10	13	14	15	16	18	17	7	8	10	13	10	10	9	9
25-Oct-05	9	10	11	9	10	11	9	A	10	10	9	8	8	8	7	9	12	12	12	12	14	13	11	14
26-Oct-05	13	15	13	11	9	6	A	5	7	9	14	15	14	14	15	16	13	8	8	6	9	13	11	10
27-Oct-05	16	16	13	13	7	A	4	3	4	6	7	8	7	7	8	7	6	7	6	6	5	6	5	5
28-Oct-05	5	3	3	3	A	4	4	4	6	7	8	9	8	8	12	13	11	9	9	8	7	10	10	11
29-Oct-05	11	8	9	A	10	11	12	11	9	10	14	14	14	15	15	15	13	7	6	5	6	7	9	9
30-Oct-05	10	9	A	8	9	7	4	6	8	8	7	10	13	13	13	13	11	8	7	5	5	8	9	8
31-Oct-05	9	A	10	9	9	9	8	10	9	11	13	14	15	14	14	10	11	14	16	17	15	7	10	10

PAS - Cresent Heights Nitrogen Dioxide Monthly Summary

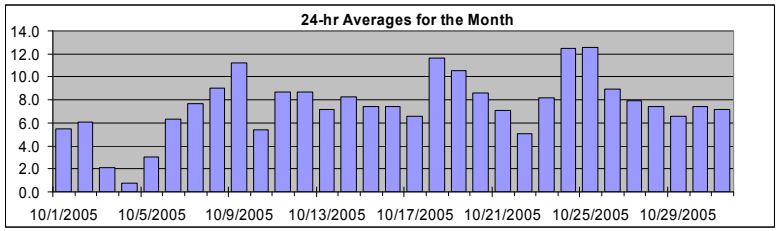
Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO_2)

Monitoring Dates: October 1, 2005 to November 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:	32.7	ppb	24-Oct	18:00 19:00
Maximum 24-hr Average:	12.6	ppb	25-Oct	

AIC Time:	33 hrs	Operational Time:	707 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	23.9	18.3	10.7	6.3	3.2	0.5	0.0	7.5 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**

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	24-hour Average	Daily Maximum
1-Oct-05	2	1	2	2	2	2	4	12	8	9	A	9	6	8	7	5	6	7	6	5	6	6	5	5	5.5	12.1
2-Oct-05	9	7	6	6	6	5	9	11	6	A	8	5	4	3	2	3	3	4	6	10	14	7	4	3	6.0	13.7
3-Oct-05	9	6	4	2	2	3	5	5	A	7	2	0	0	0	0	0	0	1	0	0	2	0	0	0	2.1	8.7
4-Oct-05	0	1	1	1	1	1	2	A	5	2	1	0	0	0	0	0	0	0	0	3	1	0	0	1	0.8	5.2
5-Oct-05	1	0	2	6	9	9	A	10	4	1	1	1	0	0	1	1	4	4	4	3	5	2	1	2	3.1	10.4
6-Oct-05	2	2	A	6	3	4	10	C	C	C	C	A	4	3	3	3	4	7	15	11	10	13	8	6	6.3	15.0
7-Oct-05	4	3	A	7	7	9	8	16	6	5	9	5	5	8	8	6	8	7	4	5	9	13	13	12	7.7	15.7
8-Oct-05	6	A	15	9	10	15	19	16	12	6	9	4	1	2	2	2	2	2	4	3	11	19	22	18	9.0	21.8
9-Oct-05	A	23	17	16	14	14	14	9	5	2	2	1	2	1	4	4	4	7	22	28	23	21	13	A	11.3	28.0
10-Oct-05	13	17	19	7	6	11	20	11	2	1	1	1	0	0	0	1	1	3	2	1	1	1	A	4	5.4	19.7
11-Oct-05	3	2	2	5	2	11	12	11	8	3	4	3	3	2	3	3	6	11	10	18	27	A	26	22	8.7	27.5
12-Oct-05	19	15	10	11	13	12	15	15	14	19	14	3	3	3	3	3	5	5	4	4	A	6	4	2	8.7	19.0
13-Oct-05	2	1	2	3	9	5	8	15	14	5	8	6	5	3	2	7	4	7	6	A	14	10	16	14	7.2	16.1
14-Oct-05	11	9	6	5	8	12	18	17	13	8	4	3	3	2	2	6	10	4	A	15	6	5	12	12	8.3	17.9
15-Oct-05	6	5	5	4	8	8	9	14	8	9	6	9	10	7	2	3	4	A	11	6	11	12	6	6	7.4	14.4
16-Oct-05	4	2	3	9	12	6	8	6	5	10	6	5	5	4	2	3	A	9	9	8	12	12	14	16	7.4	16.1
17-Oct-05	8	6	2	5	3	8	8	14	6	11	10	4	5	3	2	A	7	8	7	7	5	5	11	7	6.6	14.4
18-Oct-05	6	6	5	5	3	16	26	22	10	10	7	6	11	3	A	5	8	23	22	19	12	11	12	16	11.6	25.9
19-Oct-05	10	9	4	11	16	22	20	17	17	11	12	15	3	A	9	11	14	9	11	8	5	4	4	2	10.5	22.0
20-Oct-05	10	7	9	13	16	12	10	9	7	8	4	3	A	7	6	5	3	5	10	12	12	15	10	6	8.6	16.3
21-Oct-05	14	14	7	5	4	8	9	8	4	3	2	A	3	1	1	1	4	17	16	4	5	14	10	10	7.1	16.9
22-Oct-05	15	13	9	11	7	8	9	9	3	0	A	1	0	0	0	0	0	8	8	3	3	3	2	7	5.1	14.5
23-Oct-05	16	10	11	11	12	12	17	11	10	A	12	6	1	1	1	1	2	6	7	13	9	10	8	4	8.2	16.5
24-Oct-05	10	3	6	5	6	13	14	8	A	8	5	4	3	6	4	4	24	20	33	26	22	24	20	18	12.5	32.7
25-Oct-05	18	19	19	16	16	15	12	A	15	15	14	14	15	10	18	17	9	11	10	8	2	4	8	3	12.6	18.7
26-Oct-05	8	2	5	5	6	14	A	17	12	7	4	3	4	8	5	6	12	20	18	19	14	5	7	6	9.0	20.3
27-Oct-05	2	2	8	3	15	A	15	12	11	9	10	8	7	7	7	8	9	9	9	8	8	6	6	4	7.9	15.0
28-Oct-05	3	5	7	11	A	15	18	16	16	10	9	8	8	7	5	2	5	7	5	4	4	2	2	1	7.4	18.3
29-Oct-05	2	3	2	A	6	4	4	4	8	8	3	2	2	3	3	4	6	15	15	17	16	11	7	6	6.6	16.5
30-Oct-05	4	3	A	8	4	8	12	10	9	8	9	6	3	3	7	6	9	12	12	12	10	6	5	5	7.4	12.2
31-Oct-05	3	A	6	6	6	7	10	11	13	9	5	4	4	4	4	13	12	4	3	1	3	17	11	8	7.2	16.7
Hourly Avg	7.3	6.7	6.9	7.2	7.8	9.6	11.8	12.1	9.0	7.3	6.5	4.7	4.0	3.7	3.7	4.4	6.1	8.4	9.6	9.4	9.4	8.8	9.0	7.5		
Hourly Max	19.0	23.4	19.5	16.4	16.3	22.0	25.9	22.4	17.5	18.5	14.4	14.7	14.9	10.4	17.7	16.9	23.9	23.1	32.7	28.0	27.5	24.5	25.9	21.7		

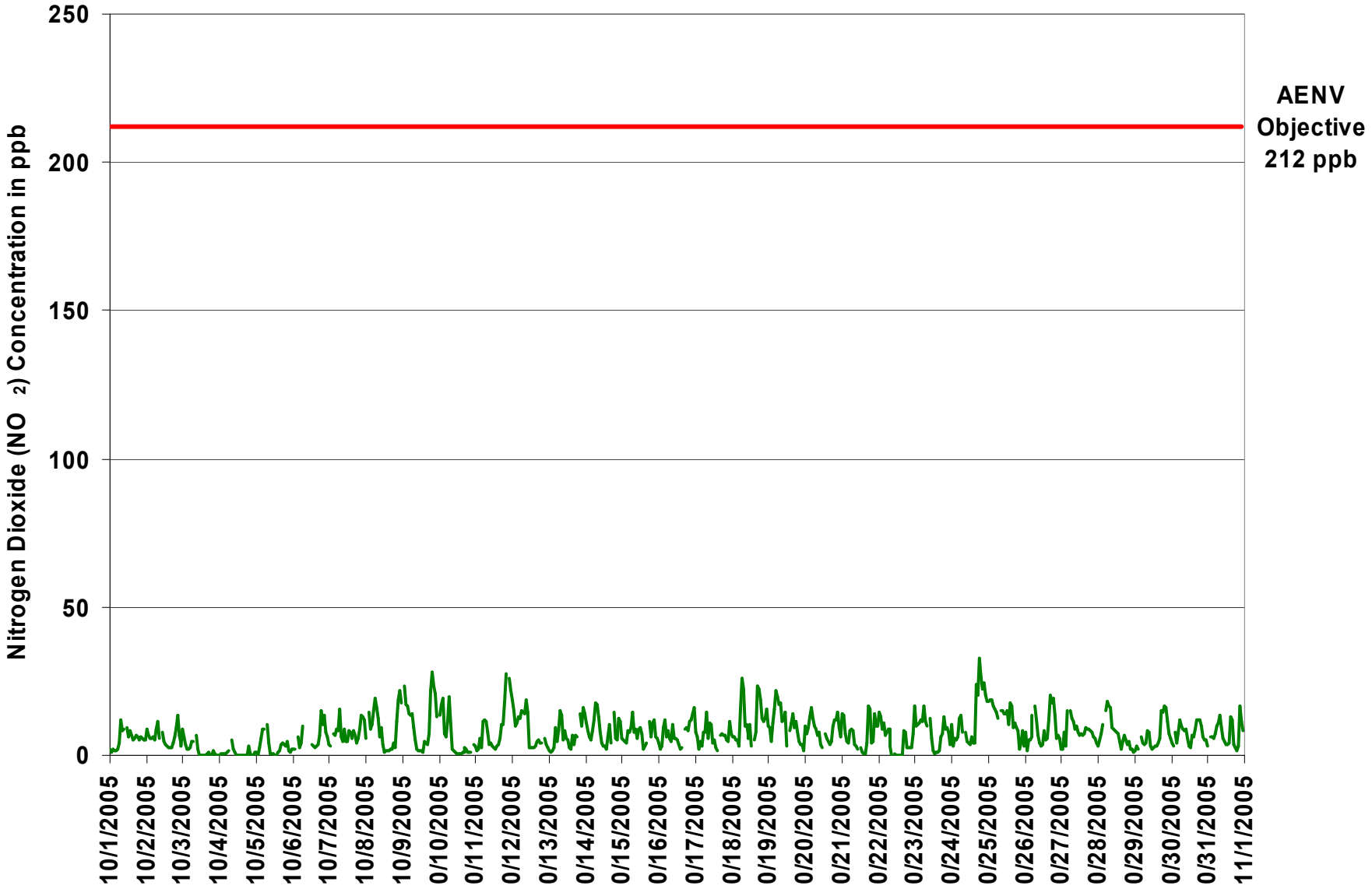


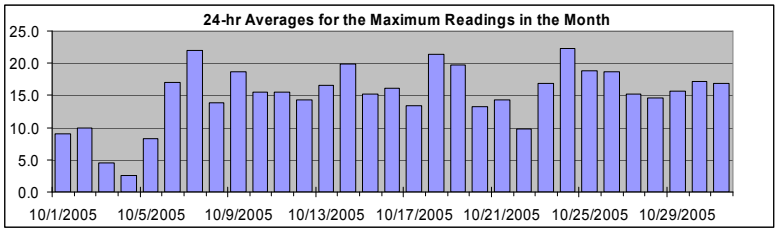
Figure 1. PAS - Cresent Heights Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Cresent Heights
Station Owner: PAS

HOURLY MAXIMUM TABLE

Nitrogen Dioxide (NO_2)

Monitoring Dates: October 1, 2005 to November 1, 2005



Summary

Maximum 1-hr Value:	63.5	ppb	24-Oct	21:00 22:00
Maximum 24-hr Value:	22.2	ppb	24-Oct	

AIC Time:	33 hrs	Operational Time:	707 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	46.6	34.8	20.6	13.3	6.8	1.8	0.3	15.0 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**

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	24-hour Average	Daily Maximum
1-Oct-05	3	2	3	3	2	3	6	15	11	13	A	19	10	14	11	13	16	14	8	7	11	8	9	6	9.1	19.5
2-Oct-05	17	15	11	11	8	8	10	15	10	A	15	6	5	5	4	4	4	9	11	20	21	9	6	4	9.9	21.0
3-Oct-05	13	9	9	3	3	6	14	8	A	13	4	1	0	2	0	0	1	2	2	2	4	1	2	0	4.5	14.2
4-Oct-05	1	1	1	1	2	3	4	A	11	3	2	1	1	1	10	0	1	1	1	6	4	1	1	2	2.5	11.4
5-Oct-05	2	3	4	13	13	11	A	17	9	1	1	2	1	2	3	3	21	19	7	15	13	4	3	23	8.3	23.0
6-Oct-05	14	26	A	38	4	8	19	C	C	C	C	A	6	4	5	5	18	10	20	19	22	19	41	28	17.0	41.1
7-Oct-05	6	14	A	36	37	31	21	30	20	10	15	9	17	37	23	28	32	20	6	12	16	32	23	30	21.9	37.5
8-Oct-05	12	A	37	11	27	19	20	18	18	8	13	6	2	3	3	5	4	3	6	9	19	32	25	20	13.9	37.2
9-Oct-05	A	30	23	31	16	28	16	21	21	3	3	3	3	4	14	5	5	15	61	35	28	25	20	A	18.6	61.2
10-Oct-05	34	37	26	11	10	16	49	22	10	22	12	2	1	2	2	18	2	26	22	3	9	2	A	21	15.5	48.5
11-Oct-05	27	3	4	23	4	25	17	20	10	5	9	6	5	14	6	6	7	16	25	32	35	A	31	27	15.4	35.1
12-Oct-05	22	20	13	15	17	30	16	16	16	21	19	5	7	4	4	4	6	8	6	25	A	16	7	31	14.3	31.3
13-Oct-05	19	7	2	4	28	21	11	35	20	16	14	26	8	8	5	15	11	14	20	A	21	11	38	27	16.6	37.9
14-Oct-05	13	46	29	7	22	27	23	21	17	9	15	5	14	3	4	34	21	16	A	22	14	14	18	61	19.8	61.1
15-Oct-05	10	9	6	6	20	13	17	19	10	10	7	11	13	23	7	6	7	A	20	13	53	35	19	18	15.3	53.4
16-Oct-05	30	10	32	24	43	39	14	8	6	22	8	6	6	5	3	4	A	13	14	16	16	15	18	18	16.1	42.8
17-Oct-05	15	25	5	20	5	24	13	19	16	20	19	7	13	16	3	A	9	10	9	11	9	8	25	9	13.5	24.6
18-Oct-05	8	19	10	8	5	32	46	26	22	25	11	13	22	12	A	9	14	40	31	24	19	17	39	38	21.4	46.1
19-Oct-05	16	13	7	26	27	46	45	27	26	17	20	17	5	A	16	14	32	21	15	9	7	27	12	8	19.7	46.2
20-Oct-05	18	8	11	17	18	14	18	14	13	12	6	8	A	16	8	7	5	9	20	17	16	22	17	8	13.2	22.2
21-Oct-05	18	19	13	6	6	33	14	11	19	21	13	A	7	2	2	4	10	35	22	13	15	18	15	14	14.4	35.0
22-Oct-05	16	16	11	14	12	10	17	15	7	5	A	5	0	0	0	0	2	31	17	9	5	12	7	15	9.8	31.2
23-Oct-05	25	18	17	15	18	13	22	20	13	A	14	15	17	19	3	3	4	19	11	31	19	28	33	13	16.9	33.0
24-Oct-05	34	7	11	8	7	35	18	11	A	13	7	18	10	25	7	12	29	33	40	45	30	63	23	24	22.2	63.5
25-Oct-05	27	34	30	23	24	18	13	A	18	17	17	16	19	15	21	26	19	22	21	15	5	7	15	13	18.8	34.0
26-Oct-05	16	3	28	11	21	34	A	20	36	8	6	15	19	15	12	9	20	28	28	25	32	9	23	9	18.7	35.8
27-Oct-05	4	3	39	6	26	A	20	16	13	10	39	16	9	9	8	10	11	13	11	16	23	9	26	11	15.2	39.5
28-Oct-05	5	7	18	16	A	19	23	19	19	15	19	11	11	17	51	31	7	13	8	5	14	3	3	3	14.6	51.4
29-Oct-05	28	9	5	A	10	21	5	7	25	19	11	3	4	6	5	6	10	23	29	24	30	24	32	25	15.6	31.9
30-Oct-05	7	18	A	29	5	51	29	12	13	12	11	10	5	5	10	10	12	18	23	26	12	27	7	43	17.1	51.3
31-Oct-05	5	A	12	20	14	19	47	21	22	25	7	6	12	10	6	23	24	11	8	2	12	26	32	23	16.8	46.6
Hourly Avg	15.6	14.9	14.9	15.2	15.1	21.9	20.2	17.9	16.0	13.4	12.0	9.3	8.4	10.0	8.5	10.5	12.1	17.0	17.4	16.9	17.8	17.5	18.9	19.1		
Hourly Max	34.4	46.4	39.5	38.3	42.8	51.3	48.5	34.7	35.8	25.1	39.4	25.6	21.5	37.5	51.4	34.3	31.7	40.2	61.2	45.0	53.4	63.5	41.1	61.1		

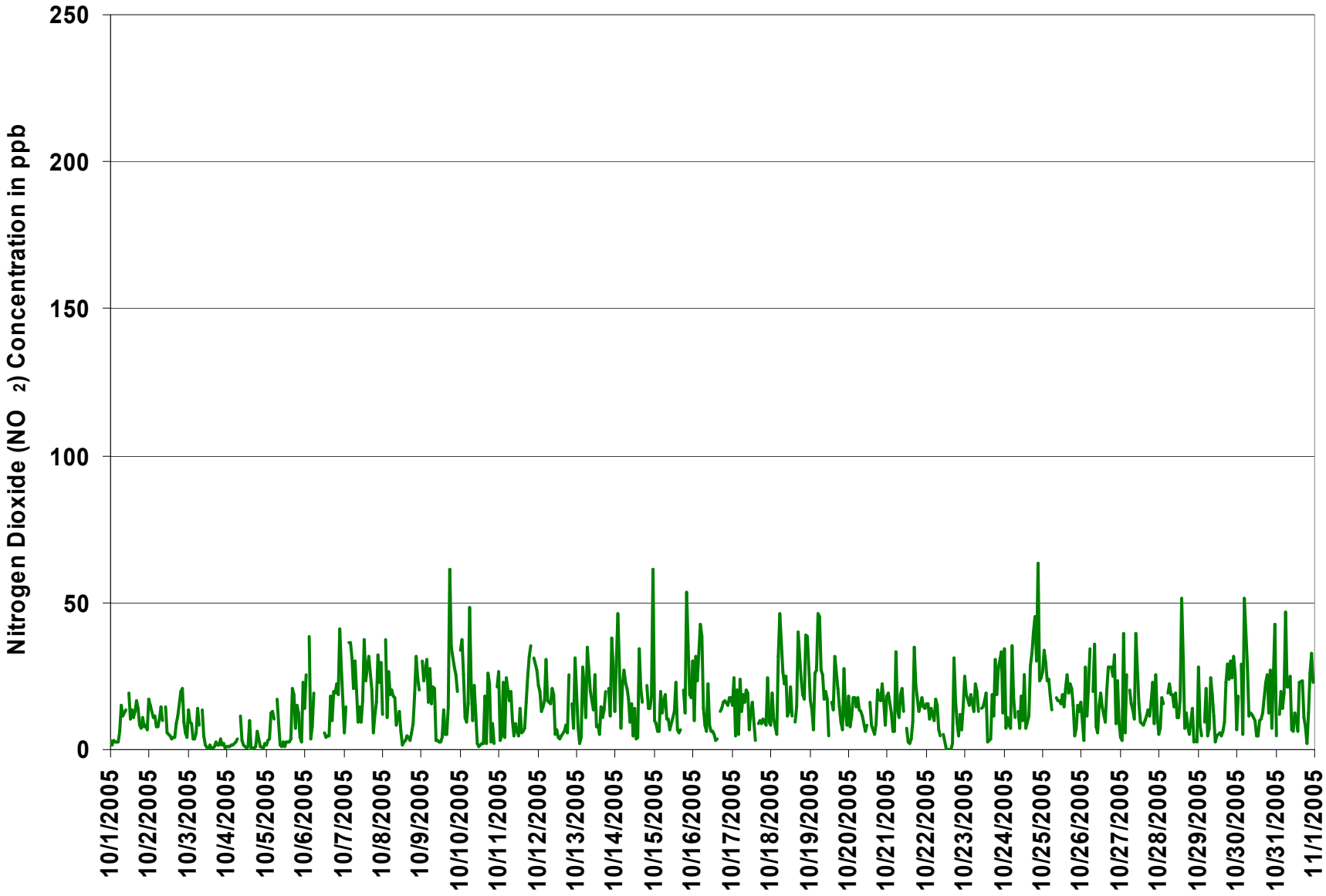
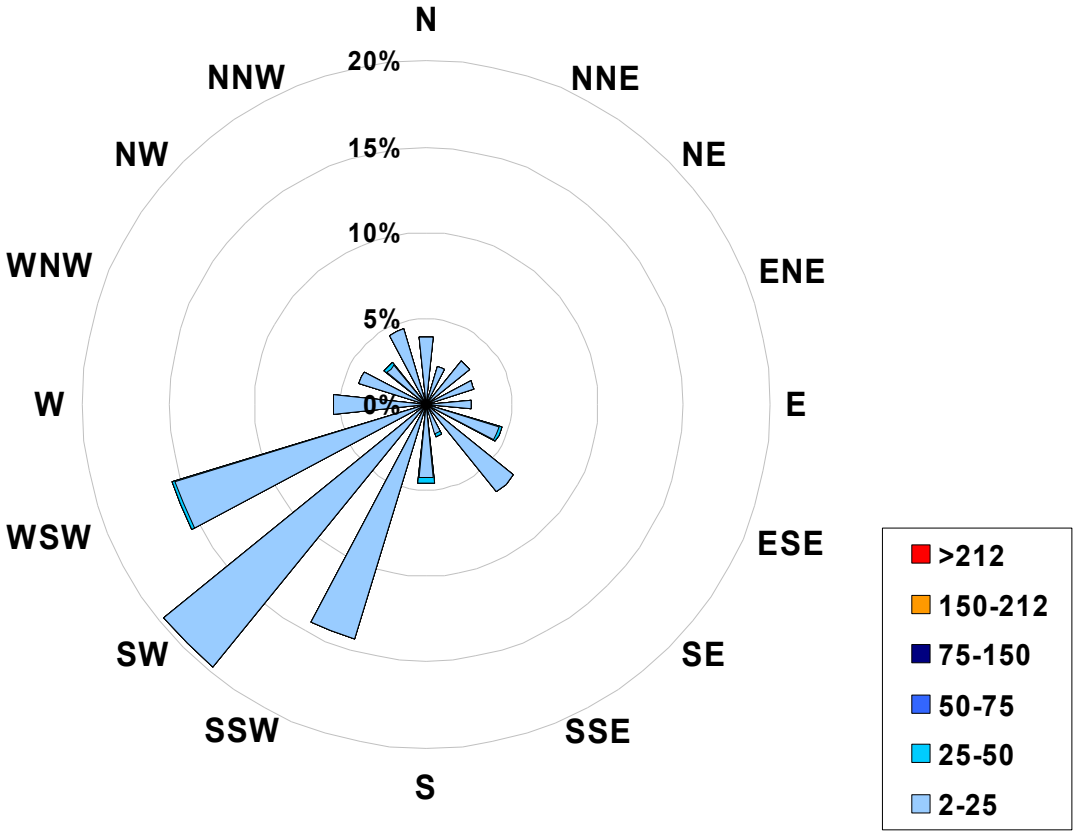


Figure 2. PAS - Cresent Heights Nitrogen Dioxide 1-hr Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of NO_2 in ppb			
Range			Frequency (hrs)
2.0	<	25	681
25	to	50	23
50	to	75	3
75	to	150	0
150	to	212	0
	>	212	0
Total Non-Zero Values			707

PAS - Cresent Heights Nitric Oxide Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

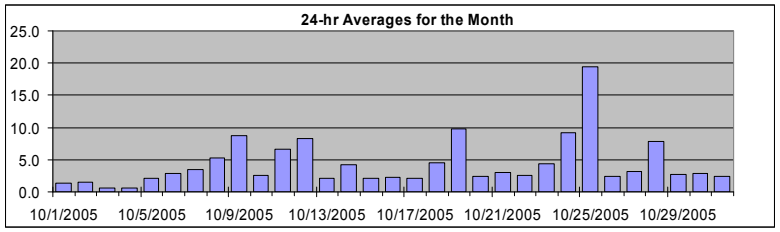
Nitric Oxide (NO)

Monitoring Dates: October 1, 2005 to November 1, 2005

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

Summary

Maximum 1-hr Average:	63.9	ppb	25-Oct	8:00 9:00
Maximum 24-hr Average:	19.5	ppb	25-Oct	



AIC Time:	33 hrs	Operational Time:	707 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	41.3	18.4	4.1	1.8	0.7	0.2	0.0	4.3 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**

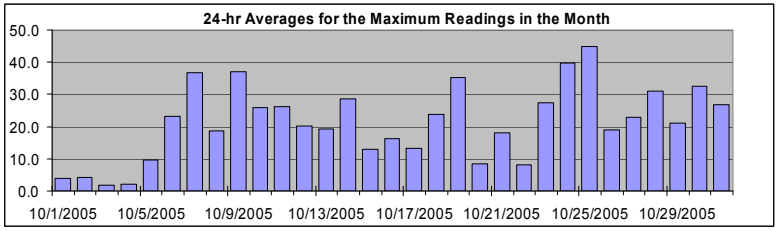
Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Oct-05	0	0	0	0	0	0	0	6	6	6	A	2	1	2	1	1	1	1	1	1	1	1	0	0	1.3	6.2
2-Oct-05	1	1	1	1	0	1	2	5	3	A	1	1	1	1	1	1	1	1	1	3	5	1	0	0	1.5	4.9
3-Oct-05	3	1	0	0	0	1	2	2	A	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0.6	2.7
4-Oct-05	0	1	0	0	0	1	1	A	2	1	2	1	1	0	1	1	1	0	0	0	0	0	0	0	0.7	1.9
5-Oct-05	0	0	0	2	4	4	A	11	5	1	1	2	1	1	1	1	3	1	1	1	1	0	0	3	2.1	11.3
6-Oct-05	1	3	A	2	0	1	3	C	C	C	C	A	3	4	4	4	5	3	3	4	3	3	3	3	2.8	4.5
7-Oct-05	1	1	A	4	3	5	3	10	4	3	7	3	3	8	5	4	4	1	1	2	1	3	1	3	3.4	9.7
8-Oct-05	1	A	8	1	4	4	13	33	23	5	10	2	1	1	0	1	0	0	0	0	0	5	7	2	5.3	32.8
9-Oct-05	A	27	13	28	20	27	26	12	8	2	2	1	1	1	2	1	1	1	7	4	4	4	1	A	8.7	27.9
10-Oct-05	4	11	8	0	0	1	18	3	1	1	2	1	1	0	0	0	0	2	1	0	1	0	A	1	2.5	18.2
11-Oct-05	1	0	0	2	0	8	3	5	4	2	3	2	2	2	2	1	1	2	2	3	16	A	50	41	6.6	49.8
12-Oct-05	21	10	1	2	9	9	33	30	19	28	16	1	1	1	1	1	1	1	0	2	A	1	0	2	8.2	33.1
13-Oct-05	1	0	0	0	3	2	1	4	3	2	3	3	3	1	1	3	1	1	1	A	1	1	8	4	2.1	8.4
14-Oct-05	1	6	4	0	2	4	15	22	17	7	3	1	1	1	0	3	2	0	A	0	0	0	2	6	4.2	21.5
15-Oct-05	1	0	0	0	1	1	1	5	4	6	4	5	5	4	1	1	1	A	1	0	2	6	0	1	2.2	6.3
16-Oct-05	2	0	4	2	4	2	1	0	1	7	3	2	2	3	2	1	A	1	1	0	2	2	3	7	2.3	7.3
17-Oct-05	1	2	1	3	0	5	2	7	2	5	6	3	4	2	1	A	1	1	1	1	0	0	1	0	2.1	7.1
18-Oct-05	0	1	0	0	0	5	23	16	7	12	6	4	7	1	A	1	1	4	3	4	1	1	3	8	4.6	22.8
19-Oct-05	1	2	1	5	6	30	53	24	36	16	14	13	2	A	3	3	5	2	2	1	1	3	1	1	9.8	53.4
20-Oct-05	3	1	1	1	2	2	3	3	2	3	3	2	A	4	2	2	1	2	2	1	2	9	1	1	2.4	9.0
21-Oct-05	6	10	3	0	1	8	5	4	3	3	3	A	1	1	1	1	1	6	3	1	1	5	2	1	3.1	9.9
22-Oct-05	9	9	4	3	2	1	7	6	4	3	A	1	1	1	0	0	0	3	1	0	0	0	0	1	2.5	9.2
23-Oct-05	8	4	4	3	3	4	8	10	11	A	10	5	3	2	1	1	1	2	1	7	1	6	5	1	4.3	11.2
24-Oct-05	9	0	1	0	1	6	4	2	A	3	2	2	2	5	1	1	6	3	45	49	15	30	11	13	9.1	48.7
25-Oct-05	16	16	29	33	22	48	27	A	64	61	41	30	27	8	11	8	2	2	1	1	0	0	1	1	19.5	63.9
26-Oct-05	1	0	1	1	2	8	A	5	6	3	2	2	2	4	1	1	1	3	3	4	3	0	2	0	2.4	7.8
27-Oct-05	0	0	5	0	7	A	3	4	4	3	6	3	3	4	3	3	3	2	2	3	4	1	6	3	3.2	6.9
28-Oct-05	0	1	6	14	A	1	23	32	25	10	12	12	11	9	8	3	2	2	1	1	3	1	1	1	7.8	32.4
29-Oct-05	2	2	1	A	1	1	1	1	5	5	2	1	1	2	1	1	1	3	4	5	9	5	3	3	2.7	9.5
30-Oct-05	1	1	A	5	0	6	4	1	2	4	7	5	2	2	2	2	2	2	4	6	1	2	0	4	2.9	6.8
31-Oct-05	0	A	0	3	2	4	7	3	4	3	1	1	1	2	1	6	4	1	0	0	0	6	4	1	2.4	7.5
Hourly Avg	3.2	3.8	3.4	3.9	3.4	6.6	10.1	9.5	9.9	7.5	6.2	3.9	3.1	2.5	2.0	1.9	1.8	1.7	3.0	3.5	2.7	3.2	4.0	3.7		
Hourly Max	21.3	27.5	28.9	32.9	22.4	48.2	53.4	32.8	63.9	60.8	41.3	29.9	26.7	9.5	10.9	7.7	5.7	5.7	44.7	48.7	15.6	30.2	49.8	41.0		

Station: Cresent Heights
Station Owner: PAS

HOURLY MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: October 1, 2005 to November 1, 2005



Summary

Maximum 1-hr Value:	222.8	ppb	24-Oct	21:00 22:00
Maximum 24-hr Value:	44.8	ppb	25-Oct	

AIC Time:	33 hrs	Operational Time:	707 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	142.2	90.5	27.6	6.2	2.1	0.9	0.6	21.2 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**

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	24-hour Average	Daily Maximum
1-Oct-05	0	1	1	1	1	1	2	14	10	10	A	17	2	5	2	3	2	2	1	1	9	2	1	1	3.9	16.7
2-Oct-05	15	5	5	3	2	2	3	9	6	A	2	2	2	2	2	2	2	4	2	9	16	1	1	1	4.3	16.3
3-Oct-05	9	2	1	1	1	2	10	3	A	2	2	0	0	1	1	1	1	1	1	1	1	1	1	1	2.0	10.3
4-Oct-05	1	1	1	1	1	1	3	A	4	3	3	2	2	1	18	1	1	1	1	1	1	1	1	1	2.2	17.5
5-Oct-05	1	1	1	9	12	13	A	17	14	2	2	4	3	5	2	2	40	14	2	12	13	0	1	48	9.6	48.0
6-Oct-05	11	82	A	56	1	3	14	C	C	C	C	A	5	6	5	4	43	4	5	22	15	8	75	54	23.0	82.1
7-Oct-05	2	10	A	120	82	53	74	43	29	7	14	6	26	74	29	34	51	10	2	69	3	40	5	65	36.9	119.6
8-Oct-05	9	A	136	2	33	26	21	59	53	10	18	5	2	1	1	2	1	1	1	1	1	28	17	4	18.7	135.7
9-Oct-05	A	69	41	111	32	170	47	77	101	3	3	3	2	2	8	2	2	2	104	13	8	16	2	A	37.2	169.6
10-Oct-05	37	100	36	1	3	2	208	17	6	36	24	1	2	2	2	9	1	33	15	1	36	2	A	19	25.8	208.1
11-Oct-05	36	1	2	60	1	149	9	14	6	4	10	6	5	19	3	3	2	3	20	23	58	A	98	68	26.2	149.0
12-Oct-05	34	27	3	5	22	55	54	44	25	35	26	3	6	2	1	2	2	1	1	42	A	11	1	65	20.3	65.3
13-Oct-05	29	4	1	1	37	24	3	41	7	27	5	33	5	4	2	6	4	2	10	A	3	2	112	81	19.3	112.4
14-Oct-05	1	89	71	2	35	33	87	72	26	9	31	3	12	2	1	60	10	3	A	2	1	1	13	91	28.5	90.9
15-Oct-05	3	2	1	1	13	4	5	11	12	7	5	7	7	54	8	2	2	A	3	1	51	87	4	10	13.1	87.0
16-Oct-05	45	8	56	32	77	57	2	1	2	31	6	3	3	4	2	3	A	4	3	1	5	3	8	15	16.2	76.5
17-Oct-05	10	47	9	32	1	63	8	29	14	20	20	5	11	14	3	A	2	2	3	2	2	1	4	2	13.2	63.3
18-Oct-05	2	3	2	1	1	34	116	36	26	97	10	10	38	7	A	2	2	21	11	9	2	2	65	46	23.7	116.5
19-Oct-05	3	5	2	23	77	99	138	70	78	45	30	17	3	A	17	5	75	30	4	2	2	78	4	2	35.1	138.3
20-Oct-05	8	2	2	3	3	3	16	6	5	8	6	12	A	29	5	4	2	5	13	3	6	45	4	2	8.4	44.8
21-Oct-05	18	24	15	1	3	129	13	8	47	48	38	A	2	2	3	2	2	28	5	3	3	9	8	3	18.1	129.0
22-Oct-05	21	30	7	7	5	3	24	15	9	8	A	2	2	2	1	1	1	38	3	1	2	1	2	4	8.2	38.2
23-Oct-05	21	12	11	7	10	7	20	26	16	A	14	14	79	39	2	2	2	14	2	142	14	53	118	9	27.5	142.4
24-Oct-05	75	1	2	1	1	70	7	3	A	4	4	24	12	87	3	3	8	49	101	116	57	223	22	44	39.9	222.8
25-Oct-05	63	96	92	123	110	78	46	A	123	75	62	37	38	18	14	19	4	6	5	1	1	1	3	15	44.8	123.0
26-Oct-05	21	1	21	1	60	93	A	14	67	5	3	17	18	8	9	2	3	6	9	13	30	1	33	1	18.8	93.4
27-Oct-05	1	1	78	1	32	A	7	19	9	7	99	17	5	6	5	5	6	5	3	26	43	3	128	20	22.9	128.2
28-Oct-05	1	3	35	44	A	3	40	64	37	16	41	19	17	53	201	66	3	12	3	2	50	2	1	2	31.1	200.8
29-Oct-05	62	5	2	A	1	23	1	2	49	17	9	2	3	4	2	2	3	20	31	13	64	43	52	75	21.1	74.8
30-Oct-05	3	42	A	101	2	145	48	2	5	9	15	12	3	3	4	3	6	6	104	87	3	56	2	91	32.7	145.5
31-Oct-05	1	A	1	22	16	42	168	33	55	39	2	2	8	37	2	13	12	6	2	1	3	15	83	50	26.7	168.5
Hourly Avg	18.1	23.2	22.6	25.7	22.5	46.3	41.2	26.8	30.0	20.9	18.1	9.9	10.8	16.4	12.0	8.9	9.8	11.1	15.6	20.8	16.8	24.5	29.0	29.7		
Hourly Max	75.4	99.7	135.7	123.0	109.6	169.6	208.1	77.5	122.8	97.1	99.1	37.4	78.6	87.0	200.8	65.9	75.1	49.3	104.2	142.4	64.3	222.8	128.2	91.0		

PAS - Cresent Heights Oxides of Nitrogen Monthly Summary

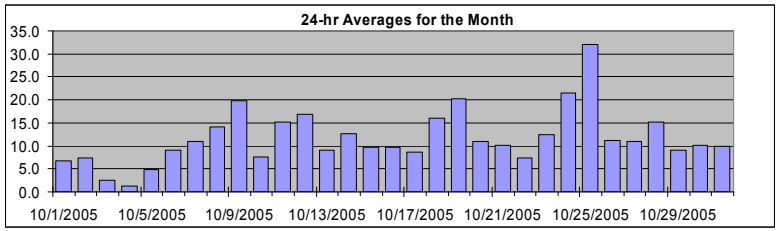
Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: October 1, 2005 to November 1, 2005

Guideline Limit: **Alberta Environment:** 1-hr na ppb | 24-hr na ppb



Summary

Maximum 1-hr Average:	79.0	ppb	25-Oct	8:00 9:00
Maximum 24-hr Average:	32.0	ppb	25-Oct	

AIC Time:	33 hrs	Operational Time:	707 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	62.2	37.6	14.9	8.1	4.3	0.8	0.0	11.7 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**

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	24-hour Average	Daily Maximum
1-Oct-05	2	1	2	2	2	2	4	18	15	15	A	11	7	10	8	6	7	7	7	6	7	6	6	6	6.7	17.7
2-Oct-05	10	8	6	6	7	6	10	16	9	A	9	6	5	4	3	3	3	5	7	12	18	7	4	3	7.4	18.5
3-Oct-05	11	7	4	2	2	3	6	7	A	8	3	0	0	0	0	0	1	1	0	0	2	0	0	0	2.5	11.3
4-Oct-05	0	1	1	1	1	1	3	A	7	3	2	1	1	0	1	0	0	0	0	3	1	0	0	1	1.2	7.2
5-Oct-05	1	0	3	8	13	13	A	22	9	2	2	2	1	2	2	2	7	5	4	4	6	2	1	5	4.9	21.8
6-Oct-05	2	5	A	8	3	5	12	C	C	C	C	A	7	7	7	7	8	10	18	15	13	16	11	8	9.1	18.1
7-Oct-05	4	3	A	11	10	13	11	25	9	8	16	7	8	16	12	10	12	8	5	7	10	16	14	15	10.9	25.4
8-Oct-05	6	A	23	9	14	18	32	49	36	11	20	6	1	2	2	2	2	2	4	2	12	23	28	19	14.1	49.0
9-Oct-05	A	51	30	44	34	40	40	21	13	4	3	3	3	2	6	5	4	7	29	31	27	24	14	A	19.8	50.7
10-Oct-05	18	28	27	7	7	12	38	15	3	2	2	1	1	0	0	1	1	4	2	1	2	1	A	4	7.7	38.0
11-Oct-05	4	2	2	8	3	19	15	16	11	6	7	5	4	4	5	5	7	12	12	21	43	A	75	63	15.1	75.5
12-Oct-05	40	25	11	13	22	22	48	45	32	47	31	4	4	3	3	4	5	6	4	6	A	6	4	4	16.9	48.0
13-Oct-05	2	1	2	3	12	6	9	19	17	7	11	9	7	4	3	9	5	7	7	A	15	10	24	18	9.1	24.4
14-Oct-05	11	15	10	5	10	16	33	39	31	14	7	4	4	3	3	10	13	4	A	15	6	5	14	17	12.6	38.6
15-Oct-05	7	6	4	4	9	9	11	19	13	15	10	14	15	12	3	4	5	A	12	7	14	18	7	6	9.7	19.2
16-Oct-05	7	3	7	12	16	8	9	6	5	18	9	8	8	6	4	4	A	10	10	9	13	13	17	23	9.7	23.1
17-Oct-05	9	8	3	8	4	13	9	21	8	16	16	7	9	4	3	A	7	8	7	7	6	5	12	8	8.6	21.3
18-Oct-05	6	7	6	5	3	20	48	38	17	22	13	9	17	4	A	6	9	27	25	22	13	12	15	23	16.0	48.4
19-Oct-05	11	11	5	15	22	52	73	41	53	28	25	28	5	A	11	14	19	12	13	9	6	7	5	2	20.3	73.2
20-Oct-05	13	8	11	14	18	14	13	12	9	11	7	5	A	11	8	6	5	7	12	13	14	24	11	7	11.0	23.9
21-Oct-05	20	24	10	5	5	16	14	12	7	7	5	A	4	2	1	1	5	22	18	5	5	19	12	11	10.0	23.5
22-Oct-05	23	22	12	14	9	9	16	15	7	3	A	1	0	0	0	0	0	11	8	3	3	3	3	8	7.3	23.5
23-Oct-05	24	13	15	13	15	16	25	22	21	A	22	10	4	2	2	2	2	8	8	20	10	16	13	4	12.4	24.9
24-Oct-05	19	3	6	6	7	19	17	10	A	11	7	7	5	11	5	5	29	23	77	75	37	55	31	31	21.6	77.2
25-Oct-05	34	34	48	49	38	63	40	A	79	76	56	44	42	18	28	25	11	13	11	9	2	4	9	4	32.0	79.0
26-Oct-05	9	2	6	6	8	22	A	22	18	10	6	4	5	12	7	7	13	23	20	23	16	6	9	6	11.3	23.0
27-Oct-05	2	2	12	3	22	A	18	17	15	12	16	11	10	11	10	10	12	11	10	12	12	7	12	7	11.0	21.8
28-Oct-05	3	6	13	24	A	17	41	49	41	20	21	20	18	16	13	5	6	9	6	4	7	2	2	2	15.1	49.0
29-Oct-05	3	4	2	A	7	6	4	5	13	13	5	3	4	5	4	5	7	18	19	21	26	16	11	8	9.1	25.6
30-Oct-05	5	4	A	13	4	14	16	11	11	12	16	11	5	4	9	8	10	14	16	18	11	8	5	9	10.2	18.3
31-Oct-05	3	A	7	9	7	12	17	14	17	13	7	6	5	6	5	19	17	5	3	2	4	23	16	14	10.0	23.2
Hourly Avg	10.4	10.4	10.2	11.0	11.1	16.1	21.8	21.6	18.8	14.7	12.6	8.5	6.9	6.1	5.6	6.1	7.7	9.9	12.5	12.8	12.0	11.9	12.8	11.2		
Hourly Max	40.1	50.7	47.6	49.3	37.8	62.8	73.2	49.0	79.0	76.2	55.6	44.0	41.7	18.4	28.5	24.5	29.4	26.9	77.2	74.9	43.0	54.7	75.5	62.6		

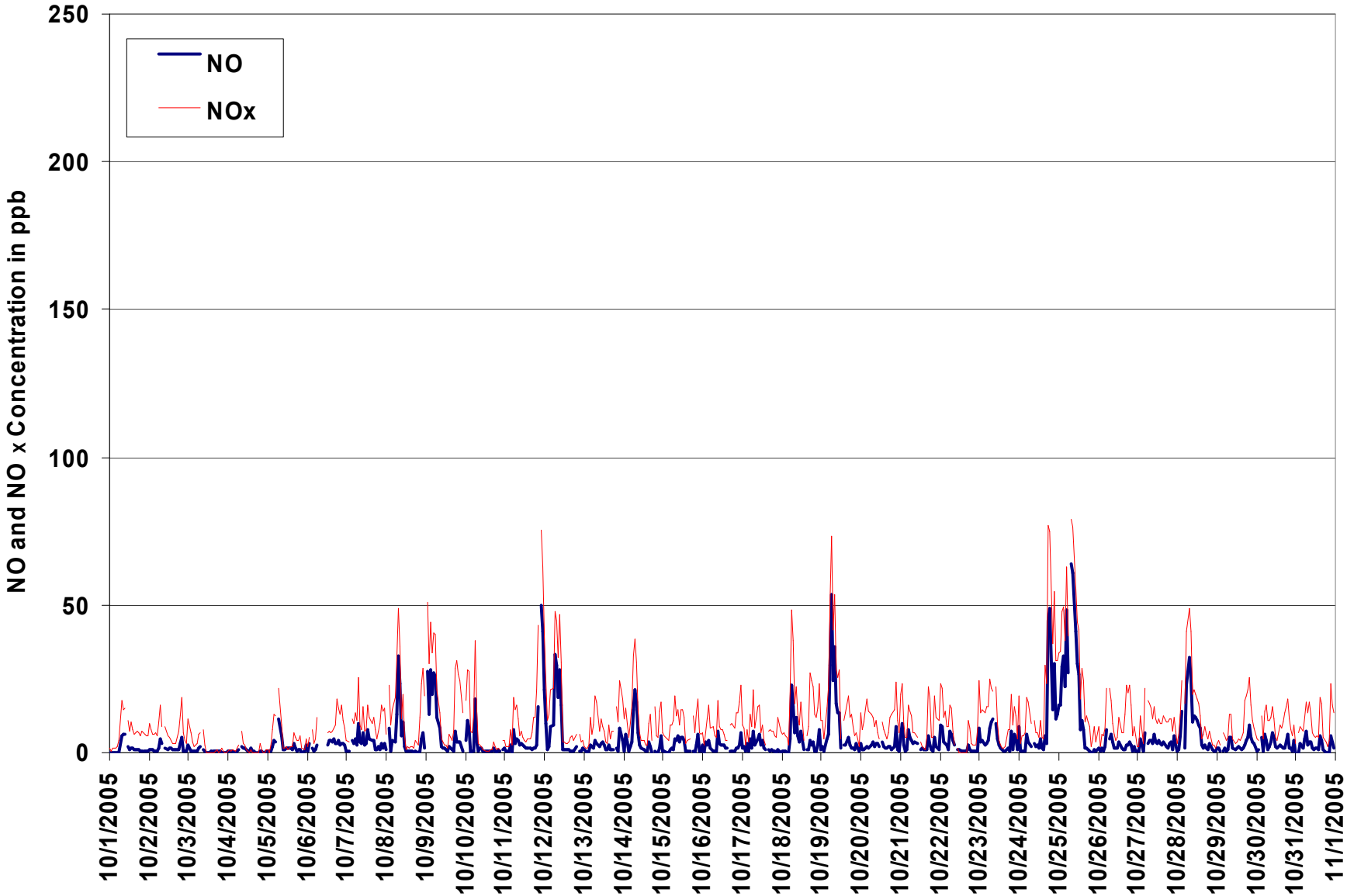


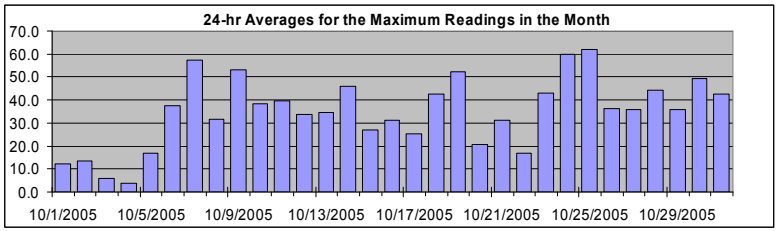
Figure 3. PAS - Cresent Heights Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Cresent Heights
Station Owner: PAS

HOURLY MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: October 1, 2005 to November 1, 2005



Summary

Maximum 1-hr Value:	279.2	ppb	24-Oct	21:00 22:00
Maximum 24-hr Value:	61.9	ppb	25-Oct	

AIC Time:	33 hrs	Operational Time:	707 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	169.2	118.5	46.6	19.9	8.7	2.2	0.7	34.8 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**

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	24-hour Average	Daily Maximum
1-Oct-05	3	2	3	2	2	3	9	28	21	23	A	31	12	19	13	16	19	15	9	8	20	9	9	7	12.3	31.0
2-Oct-05	30	20	15	14	9	10	13	23	15	A	17	7	7	7	5	5	5	12	12	28	37	9	6	5	13.6	37.3
3-Oct-05	21	10	10	3	4	7	24	11	A	15	6	2	0	3	1	1	1	3	2	2	4	1	2	0	5.8	24.4
4-Oct-05	1	2	1	2	2	3	6	A	14	5	4	2	2	2	27	1	1	1	1	7	4	0	1	2	4.0	27.1
5-Oct-05	2	3	5	21	23	23	A	30	23	3	3	5	3	7	4	4	55	31	10	26	24	4	3	73	16.7	73.1
6-Oct-05	25	93	A	94	4	8	33	C	C	C	C	A	10	10	9	9	61	13	23	39	36	27	103	78	37.6	103.3
7-Oct-05	6	23	A	156	119	81	85	74	48	17	28	15	42	112	49	61	81	31	7	81	19	70	27	87	57.4	155.9
8-Oct-05	21	A	172	12	58	37	38	76	71	19	30	11	2	3	4	6	4	3	6	9	20	59	40	24	31.6	171.5
9-Oct-05	A	91	64	132	47	190	61	91	122	6	6	5	4	6	21	7	6	16	153	48	33	42	21	A	53.2	190.1
10-Oct-05	70	126	61	11	12	16	221	36	16	58	35	2	2	2	2	29	2	52	36	2	45	2	A	39	38.2	221.2
11-Oct-05	63	3	4	83	4	167	25	33	14	8	17	11	7	32	8	8	8	18	44	53	88	A	122	90	39.7	167.0
12-Oct-05	54	46	15	18	37	77	69	60	40	55	45	6	12	6	4	6	7	9	6	67	A	26	7	97	33.6	97.0
13-Oct-05	48	12	2	5	60	45	13	76	26	41	19	52	12	11	7	19	14	16	29	A	23	13	144	106	34.5	143.8
14-Oct-05	14	130	95	8	57	56	103	89	43	19	47	6	23	5	5	89	31	19	A	24	14	16	31	137	46.1	137.1
15-Oct-05	13	11	7	6	34	16	22	26	22	16	12	19	20	73	14	6	8	A	22	13	94	119	22	28	27.1	118.5
16-Oct-05	67	19	85	56	114	96	17	9	8	52	13	9	9	9	5	6	A	17	15	17	21	17	25	33	31.3	114.3
17-Oct-05	26	68	13	52	6	77	21	46	30	39	39	12	23	30	5	A	10	11	10	10	9	8	27	9	25.3	76.9
18-Oct-05	8	22	10	8	5	62	160	59	47	109	21	23	53	17	A	9	16	61	40	33	20	18	104	79	42.7	159.6
19-Oct-05	20	17	7	47	93	145	156	95	102	60	46	33	9	A	31	18	102	47	17	11	8	106	16	10	52.1	156.4
20-Oct-05	26	9	14	20	20	16	32	19	18	19	12	17	A	43	13	10	7	13	33	18	21	60	20	10	20.5	59.8
21-Oct-05	36	42	28	7	9	154	26	17	64	68	50	A	9	4	5	4	11	60	26	16	18	25	22	17	31.3	153.7
22-Oct-05	35	40	17	20	17	12	40	29	15	12	A	7	2	0	0	0	3	69	19	9	6	12	7	18	16.9	69.3
23-Oct-05	44	29	28	22	28	19	40	45	29	A	27	29	95	50	4	4	5	31	11	169	33	77	151	21	43.0	169.3
24-Oct-05	103	8	12	9	8	97	24	13	A	17	11	40	22	109	9	14	35	80	135	161	85	279	43	63	59.9	279.2
25-Oct-05	85	123	117	144	131	94	59	A	137	90	78	53	56	31	35	45	22	28	25	16	5	6	17	27	61.9	144.3
26-Oct-05	31	4	48	12	81	126	A	30	103	12	9	33	36	23	21	11	23	34	37	37	56	9	52	10	36.3	125.8
27-Oct-05	4	4	113	6	57	A	22	33	21	17	118	32	14	15	13	15	17	18	14	40	63	10	152	28	35.9	151.8
28-Oct-05	5	10	53	57	A	21	61	79	56	29	61	30	27	69	250	93	8	25	9	6	62	4	4	3	44.4	249.7
29-Oct-05	90	13	5	A	10	40	6	9	69	36	19	4	7	9	6	8	11	43	59	36	92	66	82	100	35.7	100.0
30-Oct-05	10	61	A	128	6	197	76	13	17	20	25	22	8	7	12	13	18	24	127	110	15	83	9	130	49.2	196.8
31-Oct-05	5	A	13	41	30	58	215	55	77	64	9	8	21	47	7	36	35	15	10	3	16	42	111	66	42.8	214.8
Hourly Avg	32.2	35.8	36.3	40.0	36.2	65.1	57.8	43.0	45.3	33.3	28.9	18.2	18.4	25.4	19.6	18.5	20.9	27.1	31.6	36.7	33.0	40.6	46.0	46.6		
Hourly Max	102.9	129.7	171.5	155.9	131.0	196.8	221.2	95.3	137.3	109.4	118.3	53.1	95.5	112.0	249.7	93.5	102.5	80.1	152.9	169.3	93.8	279.2	151.8	137.1		

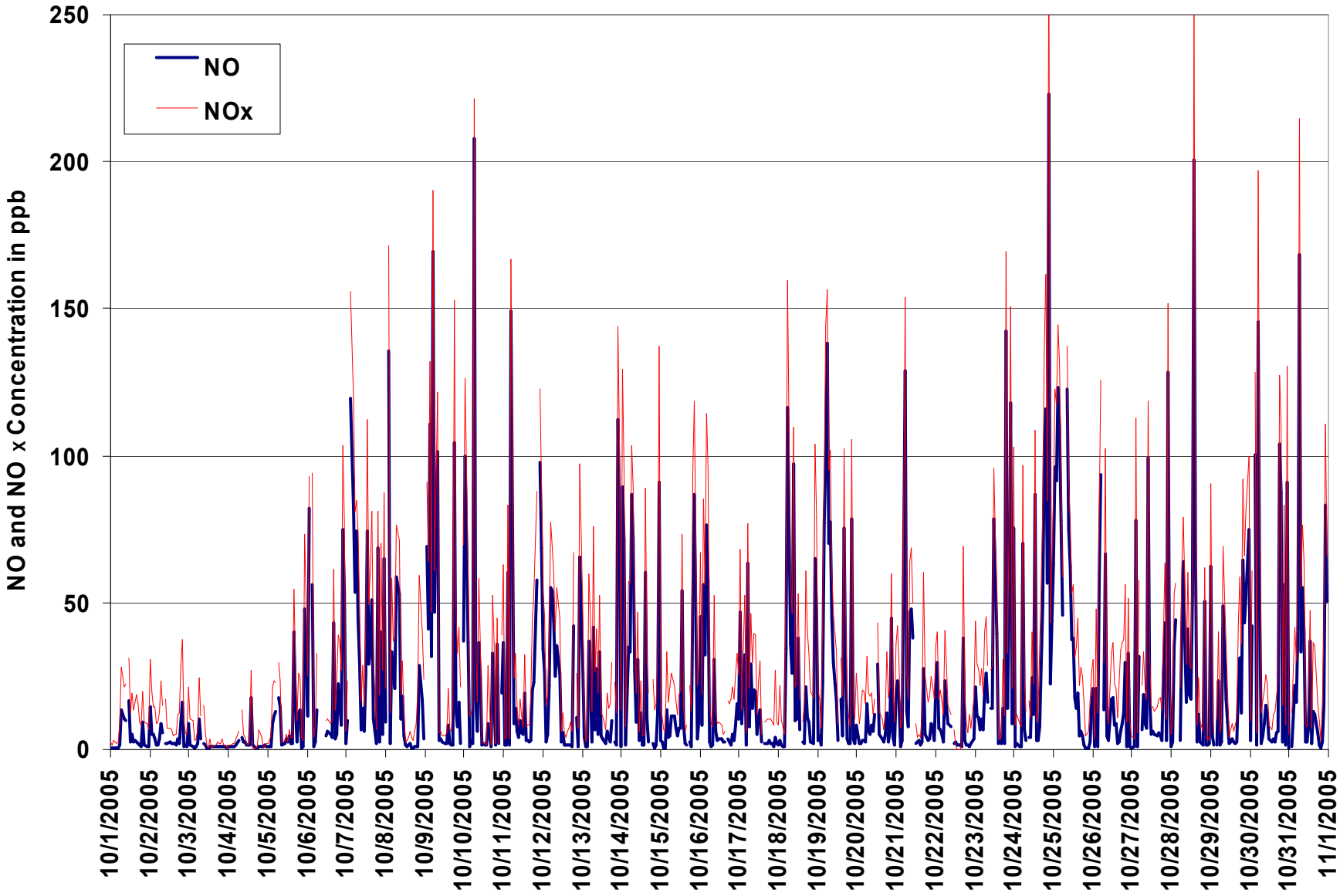


Figure 4. PAS - Cresent Heights Oxides of Nitrogen 1-hr Maximum Value Monthly Trend

PAS - Cresent Heights Ozone Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

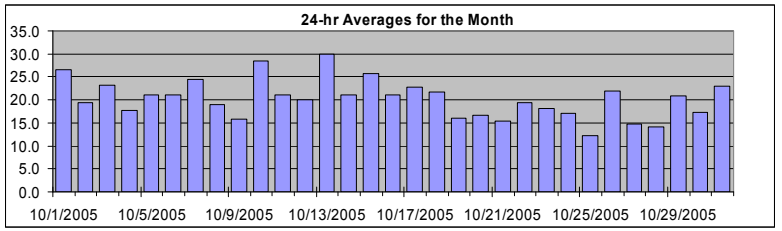
Ozone (O_3)

Monitoring Dates: October 1, 2005 to November 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:	46.2	ppb	1-Oct	15:00 16:00
Maximum 24-hr Average:	30.0	ppb	13-Oct	



AIC Time:	33 hrs	Operational Time:	709 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	39.2	36.0	27.8	20.4	13.2	2.8	1.0	20.2 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**

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	24-hour Average	Daily Maximum
1-Oct-05	27	33	29	25	22	18	14	5	9	15	A	33	40	37	45	46	43	33	25	24	22	21	21	23	26.5	46.2
2-Oct-05	18	16	16	16	12	14	11	9	19	A	27	27	28	30	31	31	31	27	23	14	9	12	13	15	19.5	31.1
3-Oct-05	8	11	16	18	18	16	13	18	A	24	30	35	35	33	32	31	29	28	30	28	23	22	20	20	23.3	35.4
4-Oct-05	17	15	14	13	14	13	12	A	13	14	16	17	19	22	25	25	23	24	24	20	18	19	18	15	17.8	25.5
5-Oct-05	16	16	12	7	3	2	A	5	12	21	23	24	27	29	31	31	28	28	29	31	28	29	28	27	21.2	31.4
6-Oct-05	28	28	A	26	25	23	16	12	20	24	26	27	C	C	A	24	25	21	13	17	15	12	18	19	21.0	27.8
7-Oct-05	20	21	A	19	17	19	20	13	23	28	26	32	32	31	33	35	32	33	33	27	23	18	16	14	24.5	34.7
8-Oct-05	19	A	10	12	11	5	1	3	7	16	17	27	36	37	38	37	35	34	30	29	16	7	3	5	19.0	37.5
9-Oct-05	A	2	2	1	1	1	2	6	12	19	22	26	31	36	35	37	37	32	16	6	6	6	12	A	15.8	36.8
10-Oct-05	15	10	9	20	21	15	7	21	33	32	34	36	36	38	39	39	37	35	35	35	36	36	A	33	28.4	38.9
11-Oct-05	31	28	25	21	21	16	11	9	15	22	24	28	33	36	36	34	30	23	23	14	4	A	1	1	21.2	36.3
12-Oct-05	1	3	5	4	4	4	1	4	9	10	17	36	36	35	35	34	32	29	29	29	A	32	36	37	20.1	37.5
13-Oct-05	38	36	33	32	26	30	25	21	25	30	31	35	37	41	40	35	39	34	34	A	21	21	15	11	30.0	40.9
14-Oct-05	11	13	14	15	12	8	3	4	10	18	27	31	34	37	37	34	30	33	A	17	28	28	19	21	21.0	37.4
15-Oct-05	24	24	24	25	19	19	17	12	18	18	24	25	28	35	40	38	33	A	23	34	30	26	29	28	25.8	39.7
16-Oct-05	31	32	32	24	23	26	24	25	25	20	22	22	22	23	24	25	A	23	19	18	10	7	4	1	21.0	31.7
17-Oct-05	11	16	22	21	23	20	17	10	19	13	17	22	24	30	34	A	33	29	27	29	30	28	23	26	22.8	34.2
18-Oct-05	28	28	30	29	31	16	5	6	16	19	24	29	28	36	A	37	33	16	12	8	14	16	22	19	21.8	37.4
19-Oct-05	17	14	23	15	7	1	1	4	5	10	14	19	33	A	28	22	16	18	14	17	20	23	20	24	16.0	33.3
20-Oct-05	16	11	5	3	2	6	8	14	18	17	24	27	A	26	27	28	30	30	23	17	13	10	13	15	16.7	29.6
21-Oct-05	6	5	9	12	12	9	8	10	17	18	20	A	27	27	29	29	27	15	13	22	18	5	7	6	15.3	29.5
22-Oct-05	1	2	5	5	8	8	8	8	15	19	A	30	34	38	39	38	35	23	23	26	22	21	22	16	19.4	38.6
23-Oct-05	9	9	8	8	6	7	4	6	10	A	18	27	30	32	31	31	30	26	22	16	21	21	23	25	18.2	31.6
24-Oct-05	18	23	21	21	19	13	12	17	A	21	25	27	31	31	36	35	14	16	2	2	3	2	1	1	17.0	36.3
25-Oct-05	1	1	1	1	1	1	1	A	2	3	5	7	9	16	13	18	24	23	25	25	29	26	23	27	12.3	28.7
26-Oct-05	25	30	25	23	19	11	A	10	14	18	27	30	29	29	30	32	25	15	15	12	18	27	22	21	21.9	31.6
27-Oct-05	31	33	25	26	13	A	7	6	7	11	14	16	15	15	15	14	12	13	11	11	10	11	11	10	14.7	33.0
28-Oct-05	10	7	6	3	A	8	3	2	7	14	15	17	16	16	25	26	22	17	17	17	15	20	21	23	14.2	26.5
29-Oct-05	22	16	18	A	21	23	24	21	18	20	27	27	29	30	30	29	26	13	12	10	11	15	18	18	20.8	30.3
30-Oct-05	19	19	A	17	17	14	9	12	17	16	13	19	26	27	25	26	23	16	14	11	11	16	17	17	17.3	26.7
31-Oct-05	18	A	20	19	18	17	17	19	18	23	27	28	29	28	28	20	21	28	32	34	29	13	20	21	23.0	34.5
Hourly Avg	17.9	17.3	16.5	16.0	14.8	12.8	10.3	10.8	14.9	18.4	22.1	26.2	28.7	30.3	31.5	30.7	28.6	24.5	21.6	20.0	18.4	18.3	17.3	17.9		
Hourly Max	38.2	35.8	33.3	32.1	30.8	30.1	24.6	25.5	32.5	32.2	34.1	36.0	39.9	40.9	44.6	46.2	43.3	35.0	34.9	35.3	36.2	36.3	36.0	37.5		

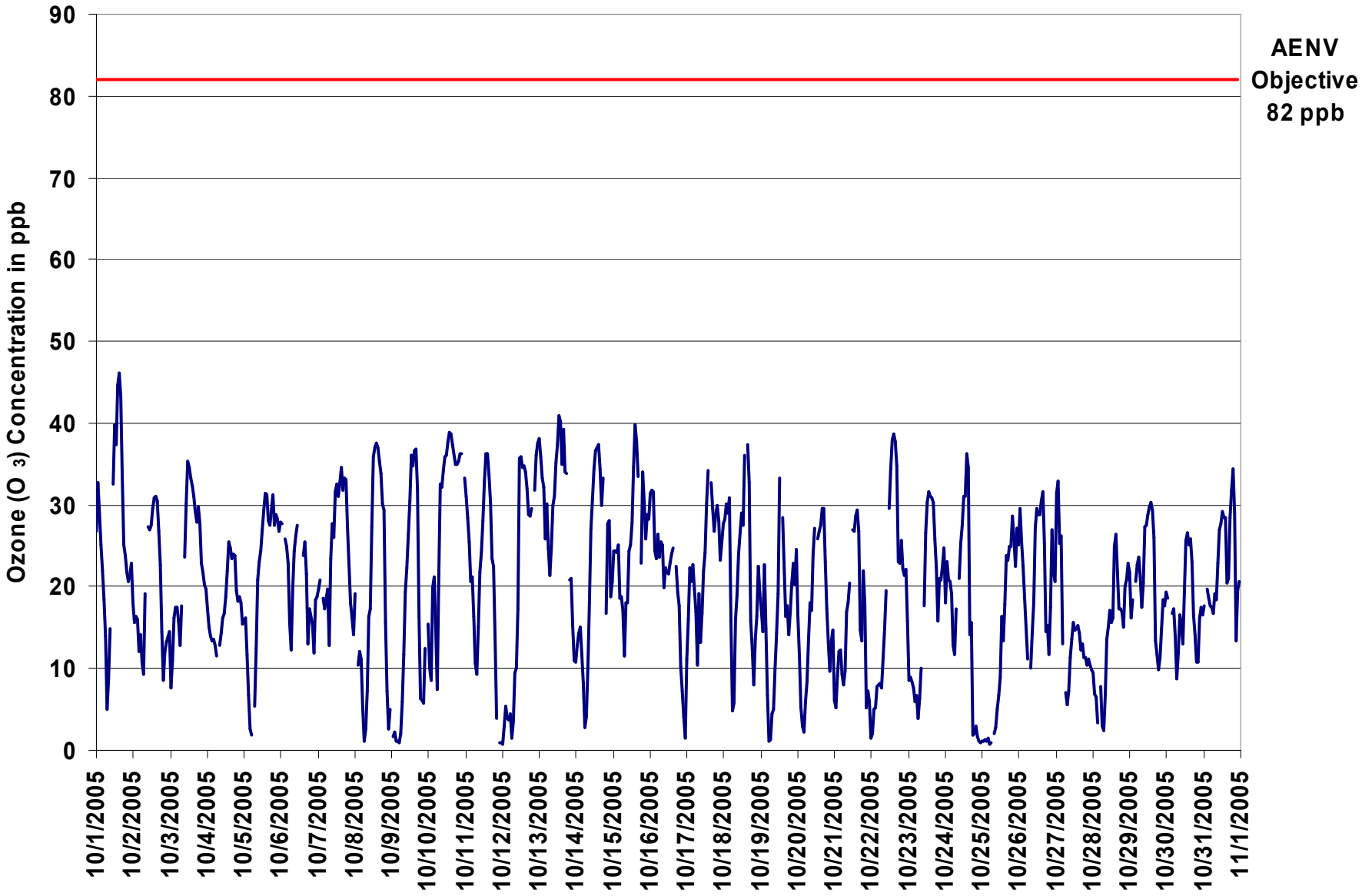


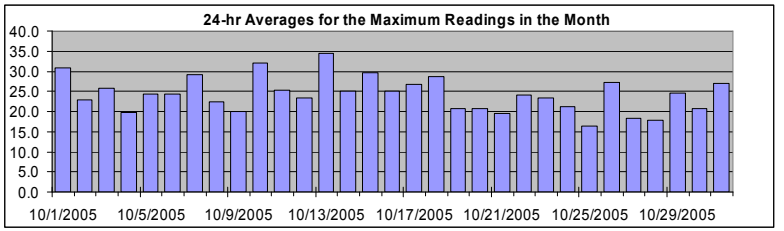
Figure 5. PAS - Cresent Heights Ozone 1-hr Average Monthly Trend

Station: Cresent Heights
Station Owner: PAS

HOURLY MAXIMUM TABLE

Ozone (O_3)

Monitoring Dates: October 1, 2005 to November 1, 2005



Summary

Maximum 1-hr Value:	51.7	ppb	1-Oct	15:00 16:00
Maximum 24-hr Value:	34.6	ppb	13-Oct	

AIC Time:	33 hrs	Operational Time:	709 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	42.8	39.2	31.6	24.7	17.5	5.9	2.2	24.3 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**

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	24-hour Average	Daily Maximum
1-Oct-05	30	35	35	27	25	22	16	8	12	29	A	36	46	44	50	52	49	44	28	26	25	23	24	25	30.8	51.7
2-Oct-05	24	20	19	19	15	18	13	13	26	A	29	29	30	32	32	33	33	32	27	21	17	15	15	17	22.9	32.9
3-Oct-05	14	13	20	20	21	18	15	23	A	27	33	38	37	35	34	33	31	29	32	31	24	24	22	21	25.8	37.8
4-Oct-05	19	17	15	15	15	14	13	A	15	17	18	18	21	25	28	26	26	26	26	25	21	20	19	18	19.8	27.9
5-Oct-05	18	20	14	12	6	4	A	8	18	25	25	28	30	33	34	34	31	30	33	34	32	31	30	30	24.3	34.2
6-Oct-05	31	31	A	28	26	26	20	16	24	27	29	30	C	C	A	26	28	26	19	21	20	16	22	22	24.4	30.6
7-Oct-05	21	23	A	21	21	23	23	21	30	31	34	35	36	37	39	39	38	36	36	31	28	26	20	23	29.2	39.3
8-Oct-05	23	A	13	14	16	11	2	4	12	19	26	35	38	39	39	40	38	37	32	32	23	12	4	9	22.5	39.5
9-Oct-05	A	4	6	2	2	2	5	10	16	22	25	32	34	38	37	40	39	39	29	13	12	13	17	A	19.9	39.6
10-Oct-05	22	16	23	24	26	19	17	28	35	34	37	38	38	39	40	40	39	38	37	36	38	38	A	36	32.1	40.4
11-Oct-05	33	31	28	24	23	29	19	12	20	24	28	30	36	39	40	36	33	31	29	22	9	A	2	2	25.3	40.3
12-Oct-05	2	5	9	6	9	7	3	7	14	12	36	38	38	37	36	36	35	31	30	32	A	35	39	40	23.4	40.2
13-Oct-05	41	38	35	34	32	35	28	28	33	34	36	39	42	43	43	41	43	39	41	A	25	27	23	15	34.6	43.3
14-Oct-05	16	16	17	17	16	12	6	6	18	22	30	35	38	39	40	40	36	36	A	24	32	32	24	26	25.2	40.5
15-Oct-05	28	27	26	27	25	21	20	17	21	22	27	28	33	42	42	40	37	A	26	41	36	33	32	32	29.7	41.9
16-Oct-05	36	34	35	32	32	29	30	28	27	26	27	24	23	25	25	27	A	27	24	22	18	11	7	4	25.0	36.1
17-Oct-05	16	24	25	23	24	23	22	16	21	20	23	26	31	32	37	A	37	32	30	32	32	32	30	28	26.8	37.1
18-Oct-05	31	35	34	33	35	30	12	10	25	28	31	34	34	38	A	39	39	34	19	16	19	22	30	32	28.7	39.2
19-Oct-05	23	24	27	25	13	4	4	9	9	14	20	33	37	A	32	28	21	22	17	19	24	25	23	27	20.8	36.7
20-Oct-05	27	17	7	7	5	8	11	17	22	21	28	30	A	29	30	31	33	33	30	21	20	17	17	17	20.8	33.3
21-Oct-05	13	11	12	13	15	12	12	14	20	20	24	A	29	29	30	32	30	29	18	26	23	18	11	9	19.6	31.6
22-Oct-05	5	5	7	14	17	17	17	16	17	24	A	32	37	40	40	39	38	31	30	29	25	27	27	23	24.2	39.7
23-Oct-05	28	18	15	14	11	10	10	11	15	A	21	32	33	34	33	33	32	31	28	21	27	27	28	28	23.4	33.5
24-Oct-05	27	25	23	23	22	20	15	21	A	25	27	31	33	37	39	39	24	21	10	6	9	4	3	2	21.2	39.5
25-Oct-05	2	3	3	2	4	2	2	A	4	5	8	8	16	22	24	27	31	32	33	32	30	30	27	30	16.4	32.8
26-Oct-05	31	31	30	27	23	17	A	17	17	24	30	32	32	34	33	36	36	24	24	19	24	32	29	26	27.3	36.3
27-Oct-05	36	36	31	30	22	A	10	8	9	14	18	18	17	18	18	17	15	17	15	15	13	13	13	13	18.2	36.3
28-Oct-05	11	9	11	12	A	11	9	5	12	17	18	22	18	20	30	28	26	21	21	20	18	22	24	25	17.9	30.3
29-Oct-05	24	20	21	A	23	25	26	24	21	24	30	29	31	32	33	32	31	21	17	21	18	19	22	23	24.7	33.4
30-Oct-05	22	20	A	20	19	19	12	20	21	19	16	23	28	28	29	28	27	23	18	14	13	20	19	19	20.8	28.5
31-Oct-05	19	A	23	23	20	22	21	22	22	29	30	29	31	30	30	27	30	31	34	37	34	25	26	25	27.0	36.5
Hourly Avg	22.3	21.0	20.2	19.6	18.7	17.0	14.2	15.2	19.2	22.6	26.4	29.7	31.9	33.5	34.5	34.0	32.8	30.2	26.3	24.6	23.0	23.0	21.0	21.5		
Hourly Max	40.6	38.0	35.4	34.4	34.9	35.0	29.9	28.3	34.9	34.2	36.9	39.4	45.8	43.5	49.8	51.7	49.1	43.9	41.0	41.5	37.5	38.0	38.5	40.2		

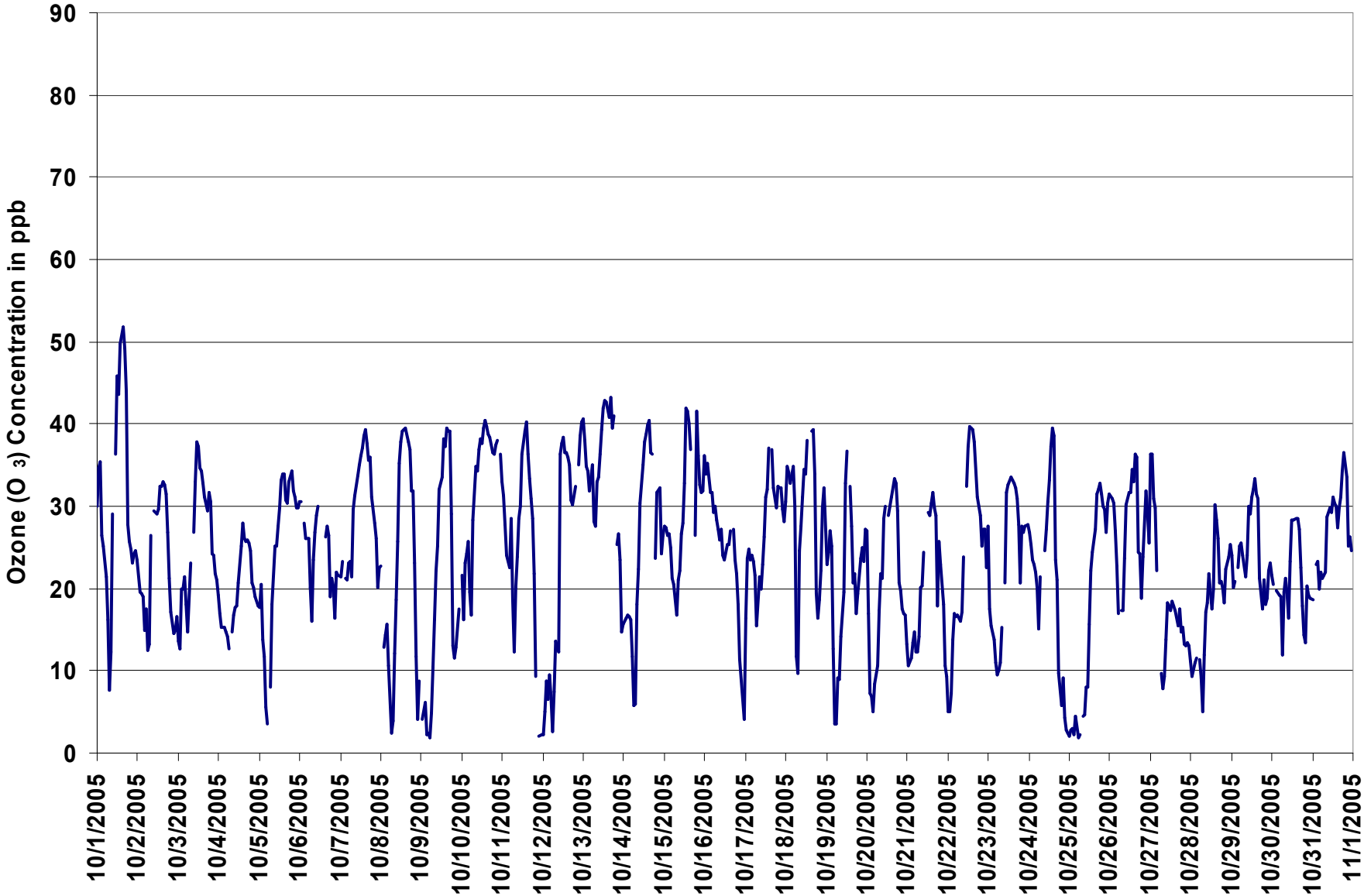
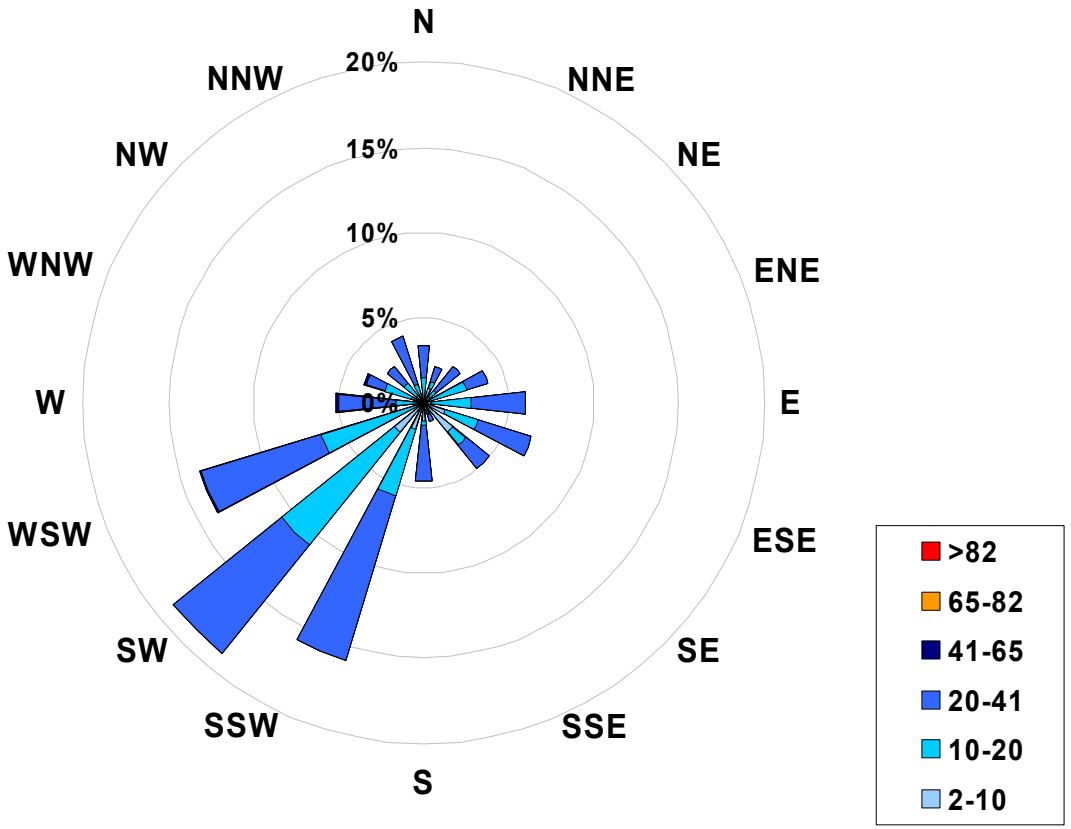


Figure 6. PAS - Cresent Heights Ozone 1-hr Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of O_3 in ppb			
Range			Frequency (hrs)
2.0	<	10	119
10	to	20	230
20	to	41	357
41	to	65	3
65	to	82	0
	>	82	0
Total Non-Zero Values			709

PAS - Cresent Heights Ozone Monthly Summary

Station: Cresent Heights
Station Owner: PAS

EIGHT HOUR RUNNING AVERAGE TABLE

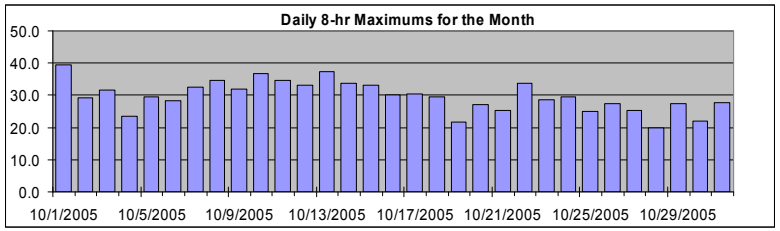
Ozone (O_3)

Monitoring Dates: October 1, 2005 to November 1, 2005

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

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	39.6	ppb	1-Oct	17:00 18:00



Percentile	99	95	75	50	25	5	1
	36.8	32.9	26.1	20.1	14.7	6.2	1.6

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	Daily Maximum
1-Oct-05	13	15	17	18	19	21	22	22	19	17	15	17	19	22	26	32	37	40	38	37	34	32	29	26	39.6
2-Oct-05	23	21	20	19	18	17	16	14	14	14	16	17	19	22	24	28	29	29	28	27	24	22	20	18	29.1
3-Oct-05	15	13	12	13	14	14	14	15	15	17	19	22	24	27	30	31	31	32	32	31	29	28	26	25	31.7
4-Oct-05	23	22	20	18	17	16	15	14	13	13	13	14	15	16	18	19	20	21	22	23	23	22	21	20	23.4
5-Oct-05	19	18	17	15	13	11	10	9	8	9	10	13	16	20	22	25	27	28	29	29	29	29	29	28	29.5
6-Oct-05	28	28	28	28	27	26	25	22	21	21	21	22	21	N	N	N	N	N	N	N	N	18	18	18	28.4
7-Oct-05	17	17	17	18	18	19	19	18	19	20	21	22	24	26	27	30	31	32	33	32	31	29	27	25	32.6
8-Oct-05	23	22	18	16	14	13	10	9	7	8	9	11	14	18	23	27	30	33	34	35	32	28	24	20	34.5
9-Oct-05	18	13	9	5	3	2	2	2	3	6	8	11	15	19	23	27	30	32	31	29	26	22	19	17	31.9
10-Oct-05	14	10	9	11	13	15	14	15	17	20	23	25	27	30	34	36	36	37	37	37	37	37	36	35	36.8
11-Oct-05	35	34	32	30	28	25	23	20	18	18	17	18	20	22	25	29	30	31	30	29	25	23	18	14	34.6
12-Oct-05	9	7	4	3	3	3	3	3	4	5	7	11	15	19	23	26	29	32	33	32	32	31	32	32	33.1
13-Oct-05	33	34	35	35	34	34	32	30	29	28	27	28	29	31	33	34	36	37	37	37	35	32	28	25	37.2
14-Oct-05	21	18	15	15	14	12	11	10	10	11	12	14	17	21	25	29	31	33	34	32	31	30	27	25	33.8
15-Oct-05	24	23	23	24	23	22	22	21	20	19	19	19	20	22	25	28	30	32	32	33	33	32	30	29	33.2
16-Oct-05	29	29	30	29	28	28	28	27	26	25	24	24	23	23	23	23	22	23	22	22	20	18	15	12	30.3
17-Oct-05	12	11	11	12	13	15	16	17	18	18	17	18	18	19	21	23	25	27	28	29	30	30	28	28	30.3
18-Oct-05	27	27	28	28	28	26	24	22	20	19	18	18	18	20	22	27	29	29	27	24	22	19	20	18	29.4
19-Oct-05	16	15	17	18	17	15	12	10	9	8	7	8	11	13	16	19	21	22	22	21	19	20	19	19	21.7
20-Oct-05	19	18	17	15	13	11	10	8	8	9	12	15	16	19	22	24	25	27	27	26	24	22	20	19	27.2
21-Oct-05	16	13	11	10	10	10	10	9	10	12	13	14	16	18	21	24	25	25	24	24	22	20	17	14	25.3
22-Oct-05	11	9	8	6	5	5	5	6	7	10	10	14	17	22	26	30	33	34	32	32	30	28	26	23	33.7
23-Oct-05	20	18	17	14	12	11	8	7	7	7	8	11	15	18	22	25	28	28	29	27	26	25	24	23	28.6
24-Oct-05	21	21	21	21	21	20	19	18	18	18	18	19	21	24	27	30	28	27	24	21	17	14	9	5	29.5
25-Oct-05	3	2	2	1	1	1	1	1	1	2	2	3	4	6	8	9	12	14	17	19	22	23	24	25	25.1
26-Oct-05	25	26	26	26	25	23	23	20	19	17	17	18	20	22	23	26	27	27	26	23	22	22	21	19	27.5
27-Oct-05	20	22	24	25	25	24	22	20	17	14	12	11	11	11	12	13	14	14	14	13	13	12	12	11	25.3
28-Oct-05	11	10	9	8	8	8	7	6	5	6	7	9	10	11	14	17	19	19	20	20	19	20	19	19	19.9
29-Oct-05	19	19	19	19	20	20	21	21	20	21	22	23	24	25	25	26	27	27	25	22	20	18	17	15	27.4
30-Oct-05	15	15	16	17	18	17	16	15	15	14	14	15	16	17	19	21	22	22	22	21	19	18	17	16	22.0
31-Oct-05	15	15	16	17	18	18	18	18	18	19	20	21	22	24	25	25	26	26	27	28	28	26	25	25	27.8
Hourly Max	34.6	33.9	34.6	35.0	33.8	33.6	32.2	30.2	28.5	27.8	27.5	27.8	29.3	30.6	33.6	35.8	37.0	39.6	37.8	37.2	36.8	36.6	36.3	35.5	

PAS - Cresent Heights Carbon Monoxide Monthly Summary

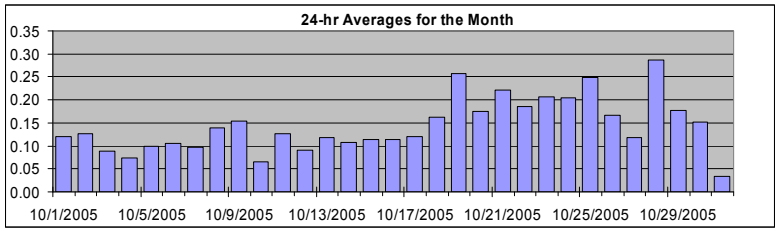
Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

Monitoring Dates: October 1, 2005 to November 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:	0.8	ppm	19-Oct	6:00 7:00
Maximum 24-hr Value:	0.3	ppm	28-Oct	

AIC Time:	33 hrs	Operational Time:	708 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	0.5	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**

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	24-hour Average	Daily Maximum
1-Oct-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.12	0.24
2-Oct-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.13	0.17
3-Oct-05	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	A	0.1	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.09	0.20
4-Oct-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	A	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.07	0.19
5-Oct-05	0.1	0.1	0.1	0.1	0.1	0.1	A	0.2	0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	C	C	C	A	0.0	0.1	0.1	0.10	0.21
6-Oct-05	0.0	0.0	A	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.11	0.24
7-Oct-05	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	0.1	0.10	0.15
8-Oct-05	0.1	A	0.1	0.1	0.1	0.2	0.3	0.4	0.3	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	0.2	0.1	0.14	0.40
9-Oct-05	A	0.3	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.3	0.2	0.2	0.1	A	0.15	0.36
10-Oct-05	0.1	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.07	0.13
11-Oct-05	0.1	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	0.0	0.1	0.1	0.1	0.2	0.4	A	0.3	0.2	0.13	0.39
12-Oct-05	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.2	0.1	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	0.1	0.1	0.09	0.25
13-Oct-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	0.2	A	0.2	0.2	0.2	0.1	0.12	0.23
14-Oct-05	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	A	0.1	0.1	0.1	0.2	0.3	0.11	0.27
15-Oct-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.11	0.25
16-Oct-05	0.1	0.1	0.0	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	A	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.11	0.20
17-Oct-05	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.1	0.2	0.2	0.1	0.1	0.2	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.12	0.25
18-Oct-05	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.16	0.37
19-Oct-05	0.2	0.1	0.1	0.1	0.2	0.5	0.8	0.5	0.6	0.3	0.3	0.3	0.1	A	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.26	0.81
20-Oct-05	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	A	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17	0.22
21-Oct-05	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	A	0.2	0.3	0.3	0.3	0.3	0.5	0.4	0.3	0.2	0.3	0.2	0.2	0.22	0.52
22-Oct-05	0.3	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1	A	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.30
23-Oct-05	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	A	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.21	0.37
24-Oct-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	0.2	0.1	0.2	0.3	0.3	0.7	0.6	0.3	0.2	0.2	0.2	0.20	0.70
25-Oct-05	0.1	0.1	0.2	0.1	0.1	0.2	0.2	A	0.6	0.5	0.4	0.3	0.4	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.25	0.59
26-Oct-05	0.1	0.1	0.1	0.1	0.1	0.2	A	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.17	0.28
27-Oct-05	0.1	0.1	0.1	0.1	0.1	A	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	0.0	0.0	0.12	0.22
28-Oct-05	0.1	0.1	0.1	0.2	A	0.1	0.2	0.6	0.4	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.29	0.56
29-Oct-05	0.2	0.1	0.1	A	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.18	0.35
30-Oct-05	0.2	0.1	A	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.15	0.30
31-Oct-05	0.1	A	0.0	0.0	0.1	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	0.0	0.03	0.14
Hourly Avg	0.12	0.10	0.09	0.09	0.09	0.11	0.17	0.20	0.16	0.12	0.13	0.13	0.13	0.14	0.15	0.16	0.17	0.20	0.22	0.18	0.17	0.15	0.15	0.13		
Hourly Max	0.29	0.30	0.19	0.24	0.24	0.46	0.81	0.56	0.59	0.50	0.37	0.35	0.40	0.44	0.40	0.36	0.39	0.52	0.70	0.60	0.39	0.31	0.32	0.27		

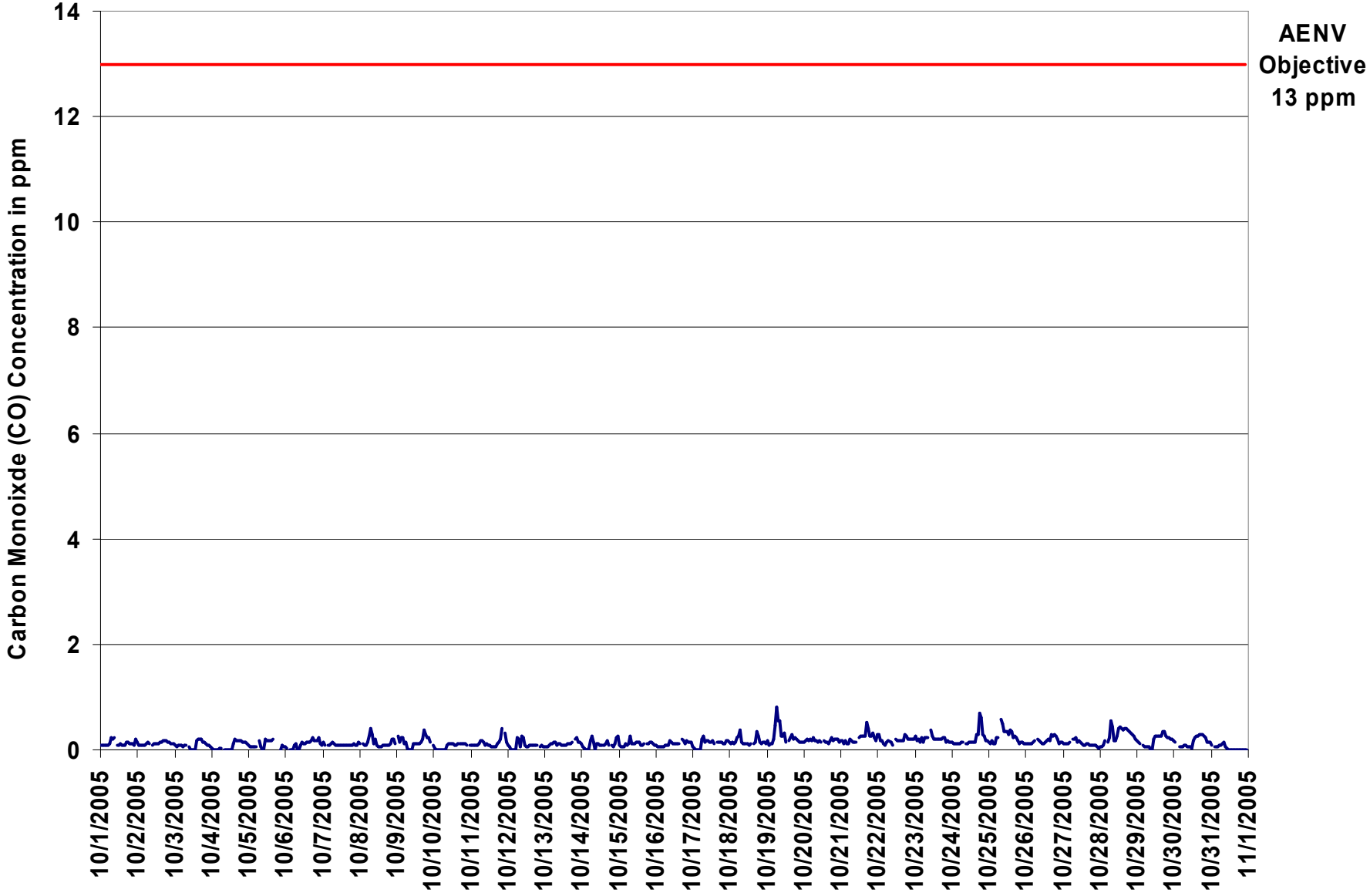


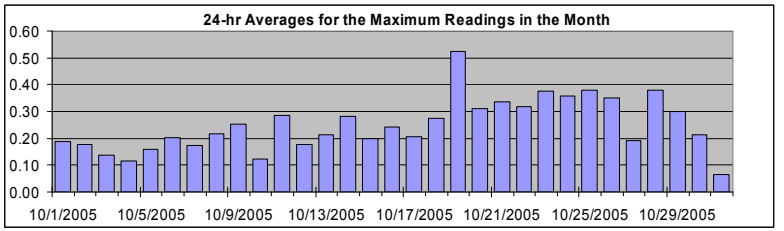
Figure 7. PAS - Cresent Heights Carbon Monoxide 1-hr Average Monthly Trend

Station: Cresent Heights
Station Owner: PAS

HOURLY MAXIMUM TABLE

Carbon Monoxide (CO)

Monitoring Dates: October 1, 2005 to November 1, 2005



Summary

Maximum 1-hr Value:	1.7	ppm	19-Oct	7:00 8:00
Maximum 24-hr Value:	0.5	ppm	19-Oct	

AIC Time:	33 hrs	Operational Time:	708 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	1.3	0.6	0.3	0.2	0.1	0.0	0.0	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**

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	24-hour Average	Daily Maximum
1-Oct-05	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	A	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.1	0.4	0.19	0.50
2-Oct-05	0.3	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.2	A	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.18	0.35
3-Oct-05	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	A	0.1	0.1	0.0	0.0	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.14	0.32
4-Oct-05	0.1	0.0	0.0	0.1	0.0	0.1	0.3	A	0.0	0.0	0.2	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.11	0.30
5-Oct-05	0.1	0.1	0.1	0.1	0.1	0.2	A	0.3	0.1	0.0	0.2	0.3	0.4	0.3	0.2	0.2	0.3	C	C	C	A	0.0	0.1	0.1	0.16	0.36
6-Oct-05	0.1	0.2	A	0.0	0.0	0.0	0.5	0.3	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.5	0.5	0.2	0.2	0.20	0.52
7-Oct-05	0.2	0.2	A	0.1	0.1	0.1	0.8	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.17	0.81
8-Oct-05	0.2	A	0.2	0.1	0.2	0.3	0.7	0.6	0.6	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.2	0.22	0.65
9-Oct-05	A	0.5	0.3	0.4	0.4	0.2	0.2	0.2	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.7	0.6	0.5	0.3	0.3	0.2	A	0.25	0.74
10-Oct-05	0.3	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.12	0.35
11-Oct-05	0.1	0.1	0.1	0.1	0.1	0.2	0.6	0.2	0.3	0.1	0.2	0.1	0.2	0.5	0.1	0.1	0.1	0.4	0.3	0.5	1.4	A	0.6	0.2	0.29	1.40
12-Oct-05	0.1	0.1	0.1	0.1	0.1	0.2	0.6	0.5	0.2	0.4	0.3	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	0.18	0.63
13-Oct-05	0.1	0.1	0.1	0.1	0.3	0.2	0.3	0.5	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.4	A	0.3	0.3	0.2	0.2	0.21	0.55
14-Oct-05	0.2	0.1	0.1	0.0	0.1	0.2	0.4	0.5	0.3	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.3	0.3	A	0.1	0.2	0.6	0.8	1.4	0.28	1.36
15-Oct-05	0.4	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.3	0.3	0.1	0.2	0.2	0.2	0.1	0.1	0.1	A	0.2	0.1	0.2	0.2	0.1	0.1	0.20	0.50
16-Oct-05	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	1.2	0.7	0.1	0.1	0.1	0.2	0.2	A	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.24	1.20
17-Oct-05	0.1	0.0	0.1	0.0	0.0	0.1	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.5	0.2	A	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.21	0.55
18-Oct-05	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.7	0.2	0.2	0.2	0.2	0.1	0.1	A	0.2	0.3	0.7	0.5	0.3	0.2	0.3	0.3	0.2	0.27	0.71
19-Oct-05	0.3	0.2	0.1	0.2	0.5	1.7	1.7	1.7	1.6	0.5	0.6	0.4	0.2	A	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.52	1.72
20-Oct-05	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.5	0.2	0.4	0.3	A	0.9	0.3	0.6	0.2	0.3	0.3	0.2	0.4	0.2	0.2	0.2	0.31	0.87
21-Oct-05	0.2	0.3	0.2	0.2	0.1	0.2	0.5	0.4	0.1	0.3	0.3	A	0.3	0.3	0.3	0.3	0.4	1.3	0.5	0.4	0.3	0.4	0.3	0.2	0.34	1.27
22-Oct-05	1.5	0.5	0.3	0.2	0.2	0.1	0.4	0.3	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.3	0.3	0.3	0.3	0.2	0.4	0.32	1.46
23-Oct-05	0.4	0.3	0.4	0.3	1.3	0.4	0.8	0.4	0.4	A	0.5	0.4	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.7	0.2	0.2	0.2	0.2	0.38	1.30
24-Oct-05	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	A	0.3	0.2	0.2	0.1	0.4	0.2	0.2	0.5	0.4	1.3	1.1	1.1	0.3	0.3	0.2	0.36	1.26
25-Oct-05	0.2	0.2	0.4	0.2	0.2	0.5	0.4	A	0.9	0.7	0.5	0.4	0.5	0.4	0.5	0.6	0.4	0.4	0.4	0.2	0.1	0.2	0.2	0.2	0.38	0.93
26-Oct-05	0.1	0.1	0.1	0.1	0.1	1.0	A	0.6	0.3	0.2	0.2	0.2	0.2	1.0	0.8	0.3	0.4	0.3	0.5	0.6	0.3	0.2	0.2	0.2	0.35	0.99
27-Oct-05	0.1	0.2	0.4	0.3	0.2	A	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.0	0.19	0.40
28-Oct-05	0.1	0.1	0.2	0.2	A	0.2	0.4	1.0	0.6	0.3	0.2	0.4	0.5	0.5	0.6	0.4	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.38	1.04
29-Oct-05	0.2	0.2	0.2	A	0.2	0.1	0.1	0.1	0.2	0.0	0.1	0.3	0.3	0.4	0.5	0.3	0.8	0.7	0.5	0.6	0.3	0.3	0.2	0.3	0.30	0.84
30-Oct-05	0.2	0.2	A	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.21	0.41
31-Oct-05	0.1	A	0.1	0.1	0.1	0.1	0.1	0.2	0.2	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	0.0	0.06	0.24
Hourly Avg	0.21	0.16	0.16	0.13	0.19	0.26	0.42	0.41	0.31	0.25	0.24	0.20	0.18	0.28	0.23	0.23	0.26	0.33	0.33	0.30	0.29	0.23	0.22	0.22		
Hourly Max	1.46	0.50	0.41	0.35	1.30	1.71	1.66	1.72	1.64	1.20	0.65	0.45	0.49	0.99	0.84	0.64	0.84	1.27	1.26	1.08	1.40	0.65	0.83	1.36		

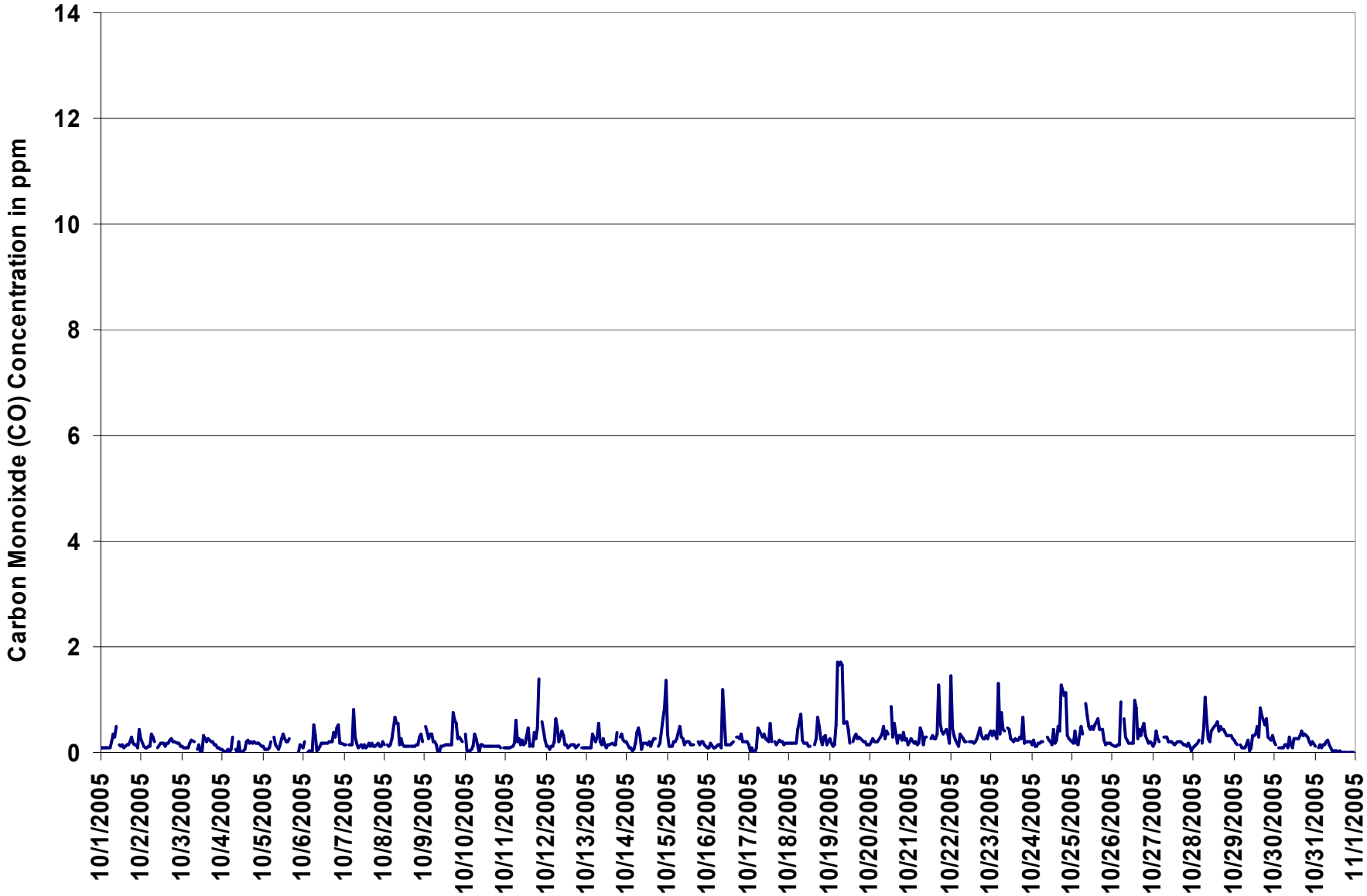
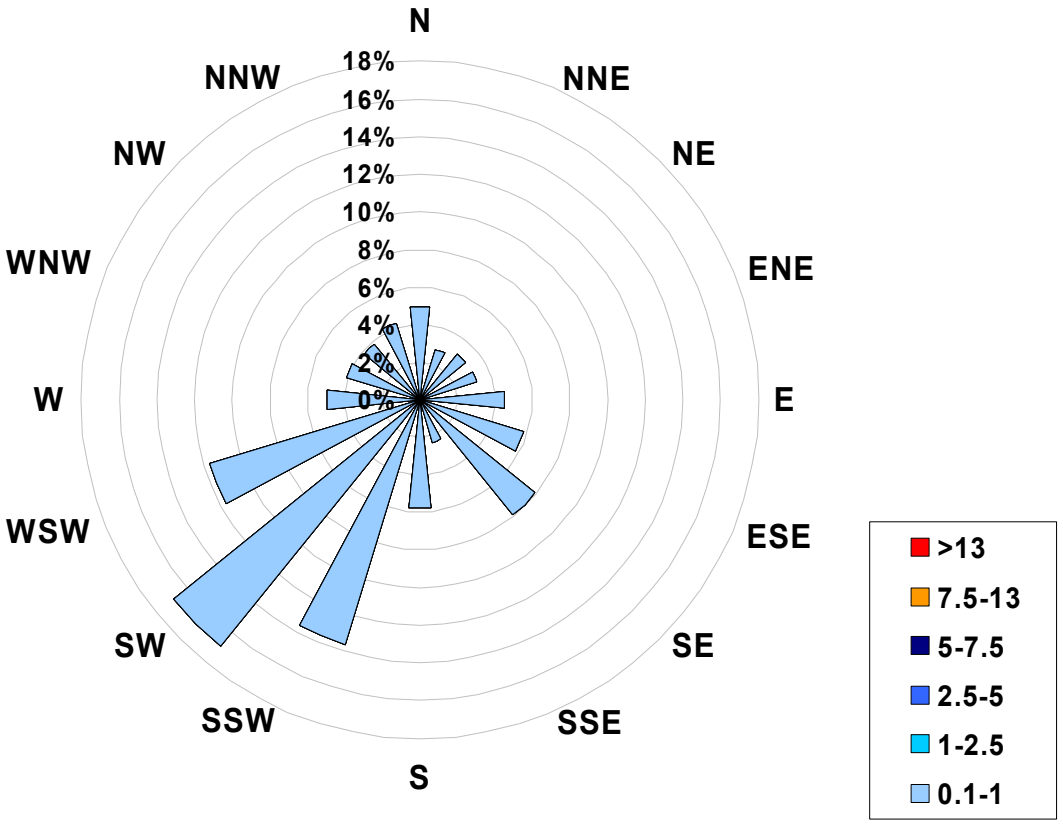


Figure 8. PAS - Cresent Heights Carbon Monoxide 1-hr Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of CO in ppm			
Range			Frequency (hrs)
0.1	<	1	708
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			708

PAS - Cresent Heights Carbon Monoxide Monthly Summary

Station: Cresent Heights
Station Owner: PAS

EIGHT HOUR RUNNING AVERAGE TABLE

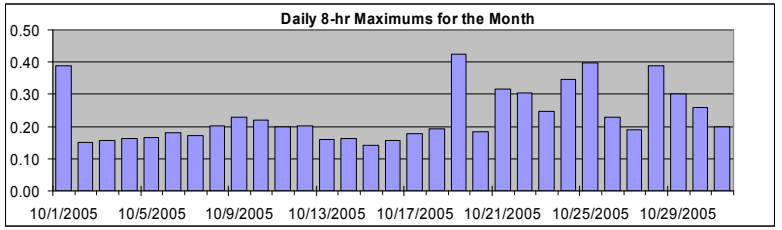
Carbon Monoxide (CO)

Monitoring Dates: October 1, 2005 to November 1, 2005

Objective Limit: **Alberta Environment:** 8-hr 5 ppm

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	0.4	ppm	19-Oct	11:00 12:00



Percentile	99	95	75	50	25	5	1
	0.4	0.3	0.2	0.1	0.1	0.0	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**

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	Daily Maximum
1-Oct-05	0.4	0.4	0.3	0.3	0.3	0.2	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	0.39
2-Oct-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	0.2	0.2	0.1	0.15
3-Oct-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	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.16
4-Oct-05	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	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.16
5-Oct-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	N	N	N	N	N	N	0.16
6-Oct-05	N	N	N	N	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	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.18
7-Oct-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	0.1	0.1	0.1	0.1	0.17
8-Oct-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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.20
9-Oct-05	0.1	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	0.2	0.2	0.2	0.2	0.23
10-Oct-05	0.2	0.2	0.1	0.1	0.1	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	0.1	0.1	0.1	0.1	0.1	0.1	0.22
11-Oct-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	0.2	0.2	0.20
12-Oct-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	0.1	0.1	0.1	0.1	0.20
13-Oct-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	0.2	0.2	0.16
14-Oct-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	0.16
15-Oct-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	0.14
16-Oct-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	0.2	0.2	0.16
17-Oct-05	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.18
18-Oct-05	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	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.19
19-Oct-05	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.42
20-Oct-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	0.18
21-Oct-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.32
22-Oct-05	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.30
23-Oct-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	0.25
24-Oct-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	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.35
25-Oct-05	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.40
26-Oct-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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
27-Oct-05	0.2	0.2	0.2	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	0.19
28-Oct-05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.39
29-Oct-05	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.30
30-Oct-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	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.26
31-Oct-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20
Hourly Max	0.39	0.35	0.32	0.30	0.26	0.19	0.26	0.31	0.36	0.38	0.40	0.42	0.42	0.41	0.40	0.39	0.35	0.35	0.38	0.39	0.38	0.36	0.35	0.35	

PAS - Cresent Heights Total Hydrocarbons Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

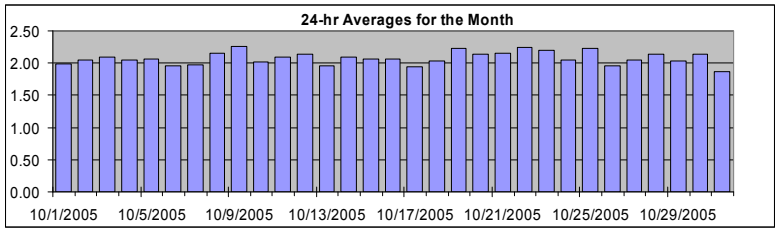
Total Hydrocarbons (THC)

Monitoring Dates: October 1, 2005 to November 1, 2005

Objective Limit: **Alberta Environment:** 1-hr na ppm | 24-hr na ppm

Summary

Maximum 1-hr Average:	2.9	ppm	7-Oct	23:00 0:00
Maximum 24-hr Value:	2.3	ppm	9-Oct	



AIC Time:	33 hrs	Operational Time:	708 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	2.7	2.4	2.1	2.0	2.0	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**

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	24-hour Average	Daily Maximum
1-Oct-05	2.0	1.9	2.1	2.0	1.9	2.3	2.3	2.2	2.2	2.0	A	1.9	1.8	1.8	1.8	1.8	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	1.99	2.28
2-Oct-05	2.1	2.0	2.1	2.0	2.1	2.0	2.1	2.2	2.1	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.05	2.18
3-Oct-05	2.2	2.1	2.1	2.2	2.2	2.2	2.3	2.2	A	2.2	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.09	2.26
4-Oct-05	2.1	2.0	2.1	2.1	2.1	2.1	2.0	A	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.05	2.14
5-Oct-05	2.0	2.1	2.2	2.1	2.2	2.2	A	2.3	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.06	2.30
6-Oct-05	2.0	2.0	A	1.9	1.9	1.9	1.9	2.0	1.9	1.9	C	C	C	A	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	1.96	2.02
7-Oct-05	2.0	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	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.9	1.97	2.85
8-Oct-05	2.1	A	2.2	2.2	2.1	2.2	2.3	2.5	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.1	2.5	2.4	2.7	2.15	2.74
9-Oct-05	A	2.6	2.5	2.7	2.7	2.5	2.4	2.1	2.1	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.3	2.6	2.3	2.2	2.2	A	2.26	2.74
10-Oct-05	2.3	2.2	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	2.0	2.0	2.0	1.9	1.9	1.9	1.9	A	1.9	2.02	2.32
11-Oct-05	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.2	2.1	2.1	2.0	2.2	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.4	A	2.5	2.5	2.09	2.54
12-Oct-05	2.5	2.3	2.3	2.3	2.3	2.2	2.4	2.3	2.2	2.3	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	1.9	1.9	2.14	2.47
13-Oct-05	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	1.8	1.9	1.9	1.9	2.0	2.0	A	2.1	2.3	2.2	2.3	1.96	2.27
14-Oct-05	2.3	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.1	2.2	2.1	2.1	2.09	2.31
15-Oct-05	2.2	2.2	2.1	2.2	2.3	2.1	2.2	2.3	2.1	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	A	2.0	2.0	2.0	2.0	2.0	2.0	2.06	2.28
16-Oct-05	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.1	2.0	2.1	2.1	2.1	2.0	2.0	A	2.3	2.1	2.2	2.2	2.2	2.2	2.3	2.07	2.32
17-Oct-05	2.0	1.9	1.9	1.9	1.8	1.8	1.9	1.9	1.9	2.0	2.1	2.0	2.0	1.9	1.9	A	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	1.95	2.10
18-Oct-05	1.9	1.9	2.1	2.0	2.0	2.0	2.1	2.2	2.1	2.0	2.0	2.0	2.0	2.0	A	1.9	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.03	2.18
19-Oct-05	2.4	2.6	2.3	2.4	2.8	2.8	2.7	2.6	2.8	2.4	2.2	2.1	1.9	A	2.0	2.0	2.0	1.9	2.0	2.0	1.9	1.9	1.9	1.9	2.23	2.84
20-Oct-05	2.0	2.1	2.2	2.3	2.3	2.2	2.2	2.2	2.1	2.1	2.1	2.0	A	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.2	2.4	2.1	2.14	2.41
21-Oct-05	2.3	2.4	2.2	2.2	2.1	2.1	2.2	2.1	2.1	2.1	2.0	A	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.1	2.2	2.2	2.1	2.2	2.16	2.40
22-Oct-05	2.3	2.6	2.7	2.5	2.4	2.1	2.2	2.2	2.1	2.1	A	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.5	2.3	2.4	2.3	2.24	2.66
23-Oct-05	2.4	2.6	2.5	2.5	2.5	2.5	2.4	2.5	2.5	A	2.3	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.21	2.60
24-Oct-05	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.1	2.0	2.3	2.4	2.2	2.3	2.2	2.2	2.05	2.37
25-Oct-05	2.2	2.5	2.4	2.3	2.2	2.3	2.4	A	2.6	2.7	2.5	2.4	2.4	2.3	2.2	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.22	2.67
26-Oct-05	1.9	1.9	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	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.96	2.12
27-Oct-05	1.9	1.9	2.0	1.9	2.0	A	2.1	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.05	2.16
28-Oct-05	2.1	2.2	2.2	2.5	A	2.2	2.3	2.4	2.3	2.2	2.1	2.1	2.2	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.14	2.46
29-Oct-05	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.0	2.0	2.03	2.15
30-Oct-05	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.1	2.1	2.1	2.13	2.26
31-Oct-05	2.0	A	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.9	1.9	1.9	1.86	2.03
Hourly Avg	2.10	2.14	2.13	2.14	2.12	2.12	2.15	2.15	2.12	2.08	2.06	2.03	2.01	2.00	1.99	1.99	2.01	2.04	2.07	2.06	2.08	2.09	2.10	2.12		
Hourly Max	2.47	2.61	2.66	2.74	2.78	2.84	2.75	2.58	2.81	2.67	2.48	2.36	2.38	2.35	2.24	2.18	2.20	2.32	2.35	2.57	2.46	2.53	2.54	2.85		

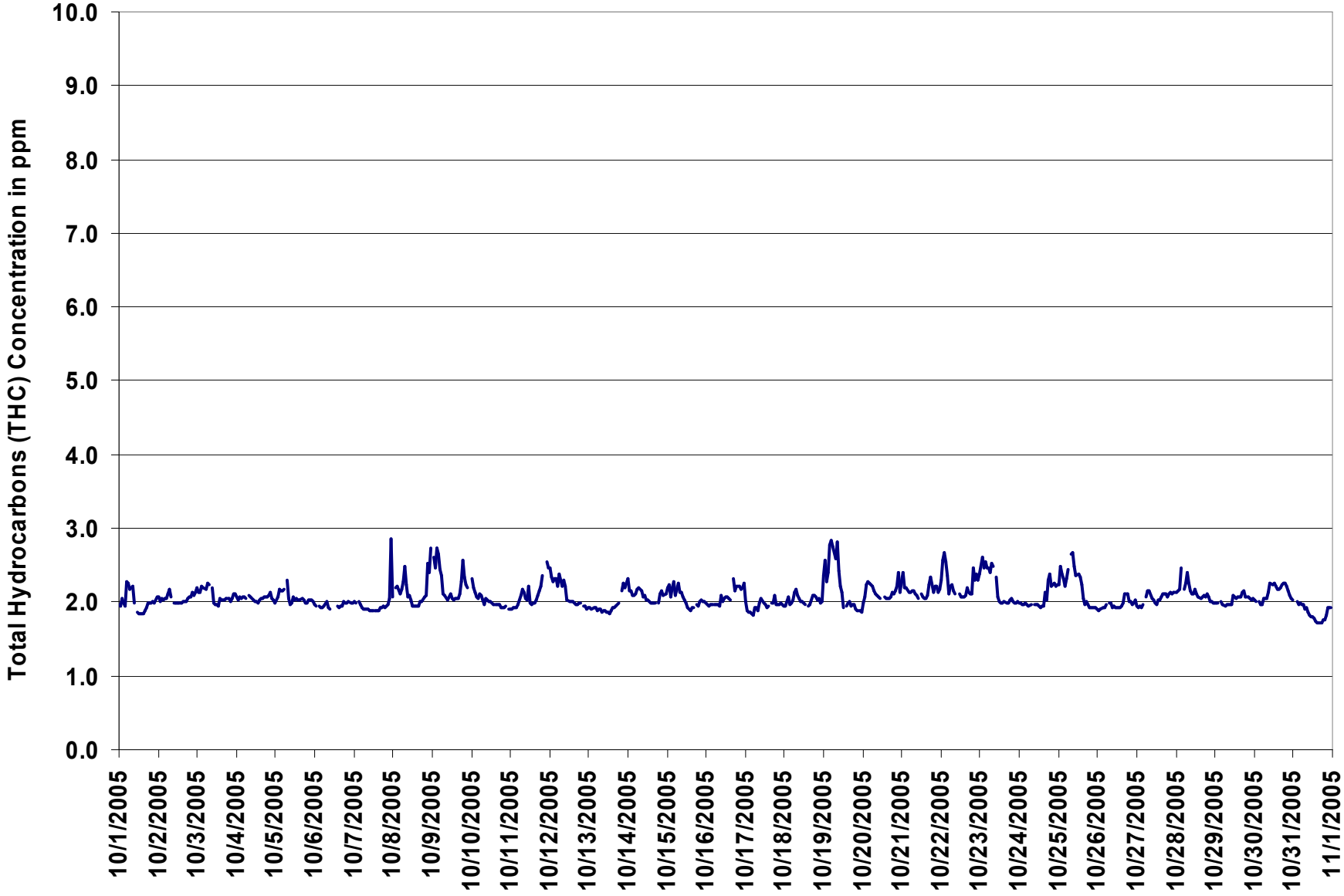


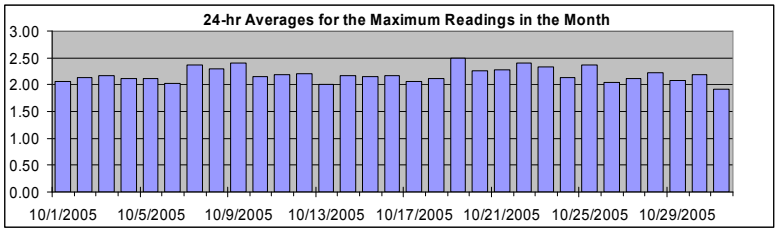
Figure 9. PAS - Cresent Heights Total Hydrocarbons 1-hr Average Monthly Trend

Station: Cresent Heights
Station Owner: PAS

HOURLY MAXIMUM TABLE

Total Hydrocarbons (THC)

Monitoring Dates: October 1, 2005 to November 1, 2005



Summary

Maximum 1-hr Value:	10.8	ppm	7-Oct	23:00 0:00
Maximum 24-hr Value:	2.5	ppm	19-Oct	

AIC Time:	33 hrs	Operational Time:	708 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	3.1	2.7	2.3	2.1	2.0	1.9	1.8	2.2 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**

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	24-hour Average	Daily Maximum
1-Oct-05	2.0	2.0	2.1	2.1	2.0	2.4	2.5	2.3	2.3	2.1	A	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.2	2.07	2.46
2-Oct-05	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	A	2.0	2.0	2.0	2.0	2.0	2.3	2.0	2.1	2.2	2.1	2.2	2.3	2.1	2.3	2.12	2.33
3-Oct-05	2.5	2.2	2.2	2.3	2.3	2.3	2.3	2.3	A	2.3	2.1	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.0	2.1	2.2	2.2	2.16	2.48
4-Oct-05	2.2	2.1	2.1	2.1	2.1	2.1	2.1	A	2.2	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.0	2.11	2.19
5-Oct-05	2.0	2.2	2.2	2.2	2.2	2.3	A	2.4	2.2	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.12	2.44
6-Oct-05	2.0	2.0	A	2.0	2.0	2.0	2.1	2.1	2.0	2.0	C	C	C	A	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.1	2.0	2.0	2.02	2.16
7-Oct-05	2.0	2.1	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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	10.8	2.37	10.80
8-Oct-05	2.1	A	2.6	2.3	2.2	2.3	3.0	2.6	2.5	2.1	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.2	2.0	2.1	2.3	2.7	2.5	3.0	2.29	3.02
9-Oct-05	A	3.1	2.8	3.0	2.9	2.7	2.7	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.5	2.7	2.6	2.3	2.2	A	2.40	3.10
10-Oct-05	3.7	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	A	1.9	2.14	3.66
11-Oct-05	1.9	2.0	1.9	2.0	2.0	2.0	2.3	2.2	2.2	2.1	2.1	2.8	2.0	2.1	2.0	2.1	2.1	2.2	2.2	2.4	2.7	A	2.6	2.5	2.19	2.76
12-Oct-05	2.5	2.6	2.3	2.4	2.4	2.3	2.6	2.4	2.2	2.4	2.3	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	1.9	2.20	2.57
13-Oct-05	1.9	2.0	1.9	2.0	2.0	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	A	2.3	2.3	2.3	2.3	2.01	2.34
14-Oct-05	2.4	2.2	2.2	2.2	2.1	2.1	2.2	2.3	2.2	2.1	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	A	2.0	2.3	2.4	2.3	2.4	2.17	2.45
15-Oct-05	2.3	2.4	2.1	2.3	2.6	2.2	2.3	2.4	2.4	2.2	2.1	2.1	2.0	2.0	1.9	2.0	2.0	A	2.0	2.0	2.1	2.1	2.1	2.1	2.16	2.56
16-Oct-05	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.6	2.1	2.1	2.1	2.1	2.1	2.1	A	2.7	2.3	2.4	2.3	2.2	2.3	2.3	2.16	2.67
17-Oct-05	2.2	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	2.3	2.5	2.1	2.0	2.0	2.0	A	2.1	2.1	2.3	2.0	2.1	2.0	2.1	2.0	2.05	2.49
18-Oct-05	2.0	2.0	2.3	2.0	2.0	2.2	2.2	2.3	2.3	2.1	2.1	2.0	2.0	2.0	A	2.0	2.0	2.2	2.2	2.1	2.1	2.2	2.1	2.1	2.11	2.34
19-Oct-05	2.6	3.7	2.4	2.7	2.9	3.1	3.8	3.2	3.9	2.6	2.5	2.2	2.0	A	2.0	2.0	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.49	3.88
20-Oct-05	2.2	2.2	2.4	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.1	2.1	A	2.3	2.1	2.1	2.1	2.2	2.2	2.1	2.2	2.6	2.8	2.2	2.25	2.77
21-Oct-05	2.5	2.9	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.1	A	2.1	2.1	2.1	2.1	2.1	2.8	2.5	2.4	2.4	2.3	2.2	2.3	2.28	2.92
22-Oct-05	2.4	2.8	2.9	3.1	2.8	2.2	2.3	2.3	2.2	2.2	A	2.2	2.1	2.1	2.1	2.1	2.3	2.2	2.1	2.1	3.1	2.7	2.6	2.5	2.41	3.14
23-Oct-05	2.8	2.7	2.7	2.8	2.8	2.8	2.7	2.8	2.7	A	2.4	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.0	2.0	2.0	2.0	2.34	2.80
24-Oct-05	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.2	2.5	2.6	2.4	2.4	2.3	2.3	2.13	2.58
25-Oct-05	2.3	2.7	2.7	2.4	2.4	2.5	2.7	A	2.9	2.8	2.7	2.4	2.5	2.6	2.4	2.2	2.1	2.1	2.1	2.0	1.9	2.0	2.0	2.0	2.36	2.94
26-Oct-05	1.9	1.9	2.0	2.0	2.0	2.1	A	2.1	2.1	2.0	2.1	2.1	2.0	2.1	2.0	2.0	2.1	2.2	2.2	2.1	2.1	2.0	2.0	2.1	2.05	2.21
27-Oct-05	2.0	2.0	2.0	2.0	2.0	A	2.1	2.2	2.2	2.1	2.1	2.0	2.0	2.2	2.1	2.1	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.2	2.11	2.22
28-Oct-05	2.2	2.2	2.3	2.7	A	2.2	2.4	2.6	2.4	2.4	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.3	2.1	2.1	2.1	2.0	2.23	2.69
29-Oct-05	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.08	2.24
30-Oct-05	2.1	2.0	A	2.0	2.0	2.0	2.1	2.1	2.2	2.2	2.4	2.3	2.3	2.3	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.1	2.1	2.19	2.35
31-Oct-05	2.1	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.8	1.8	1.9	1.8	1.7	1.8	1.8	1.8	1.8	1.9	2.0	2.1	2.0	1.91	2.13
Hourly Avg	2.24	2.27	2.24	2.24	2.21	2.21	2.32	2.27	2.26	2.17	2.15	2.11	2.05	2.07	2.04	2.05	2.07	2.14	2.15	2.15	2.20	2.19	2.19	2.47		
Hourly Max	3.66	3.67	2.91	3.14	2.93	3.05	3.81	3.24	3.88	2.79	2.70	2.76	2.46	2.55	2.40	2.33	2.29	2.75	2.51	2.69	3.09	2.68	2.77	10.80		

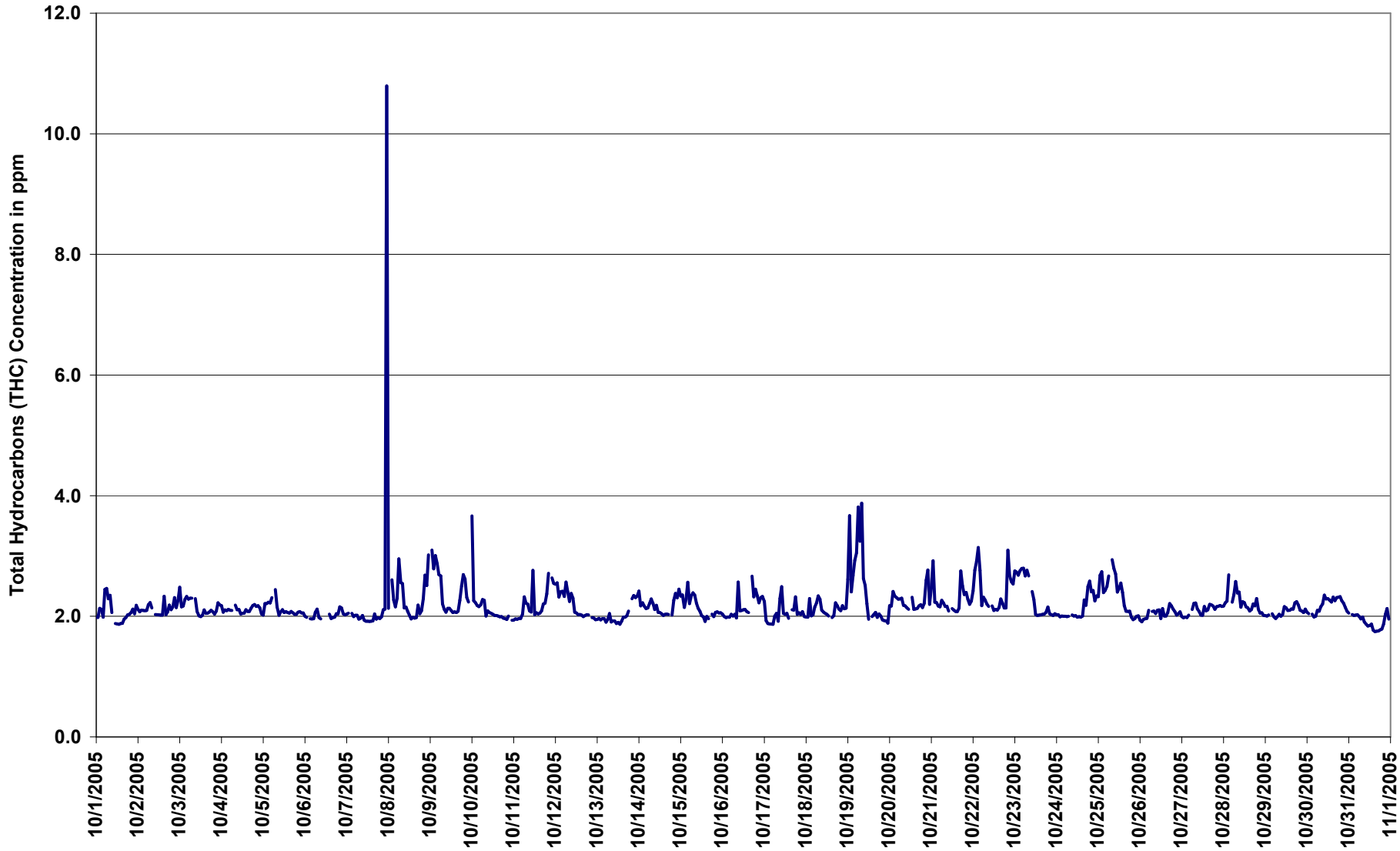
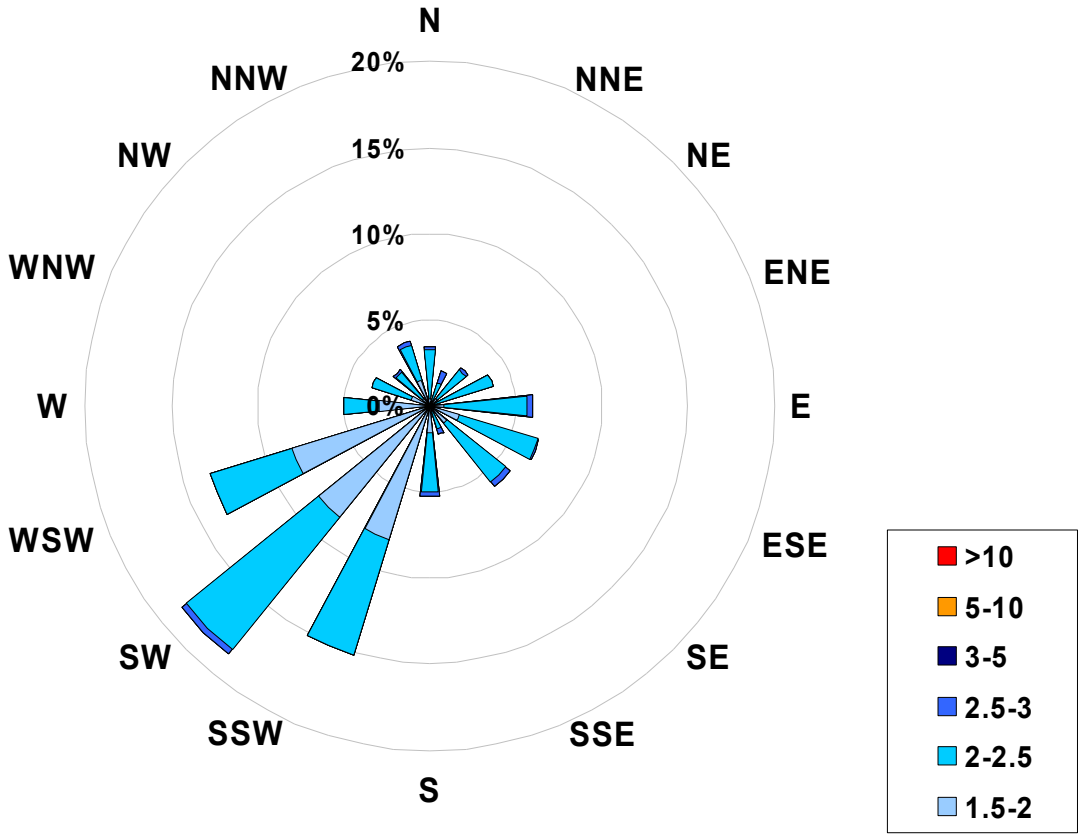


Figure 10. PAS - Cresent Heights Total Hydrocarbons 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Total Hydrocarbons (in ppm)
Located at the Cresent Heights Site for October 2005



Calms:	0%

Frequency Distribution of THC in ppm			
Range			Frequency (hrs)
1.5	<	2	270
2	to	2.5	416
2.5	to	3	22
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			708

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

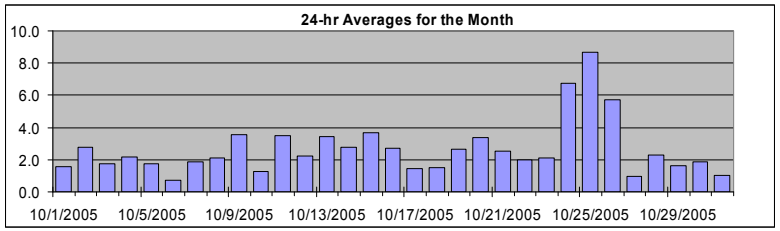
Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: October 1, 2005 to November 1, 2005

Draft Objective Limit: **Alberta Environment:** 1-hr - µg/m³ 24-hr 30 µg/m³



Summary

Number of 24-hr Exceedances (draft):	0			
Maximum 1-hr Average:	15.7	µg/m³	24-Oct	19:00 20:00
Maximum 24-hr Value:	8.7	µg/m³	25-Oct	

AIC Time:	0 hrs	Operational Time:	737 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.5%

Percentile	99	95	75	50	25	5	1	Average	Geomean
	11.9	7.8	3.6	2.2	1.0	0.0	0.0	2.7 µg/m	2.3 µg/m

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	24-hour Average	Daily Maximum
1-Oct-05	1	0	1	0	0	1	2	3	5	5	D	0	D	0	0	0	0	7	3	1	2	2	0	3	1.6	7.4
2-Oct-05	4	2	2	3	2	1	2	5	1	1	2	3	3	3	4	4	5	4	3	2	3	3	2	2	2.8	5.3
3-Oct-05	3	3	2	3	4	3	3	3	3	2	0	0	1	0	2	2	1	1	0	2	2	1	1	1	1.8	3.7
4-Oct-05	0	1	1	1	0	1	0	2	1	2	2	2	2	2	4	3	3	4	6	4	2	2	3	2	2.1	5.6
5-Oct-05	2	3	3	4	4	3	4	4	4	3	1	2	0	0	0	0	1	0	0	0	2	1	0	0	1.8	4.4
6-Oct-05	0	0	2	0	0	1	1	3	2	0	1	C	C	C	D	D	0	0	1	1	0	0	0	0	0.7	3.4
7-Oct-05	0	0	0	0	0	1	3	2	2	1	2	0	5	0	0	1	1	2	2	4	4	4	4	5	1.9	5.3
8-Oct-05	2	2	2	2	2	2	3	4	4	2	4	1	0	0	0	1	2	2	2	1	3	4	4	3	2.1	4.2
9-Oct-05	6	6	4	5	4	4	4	6	4	4	2	4	2	1	1	1	2	2	6	6	4	4	2	3	3.6	5.8
10-Oct-05	2	2	3	1	1	2	6	4	1	1	1	1	1	0	0	0	0	1	1	1	0	1	0	1	1.3	6.4
11-Oct-05	1	3	2	2	3	8	5	5	4	3	3	2	1	1	0	0	2	5	1	3	5	7	9	8	3.5	8.6
12-Oct-05	6	4	1	1	1	2	2	4	4	4	6	1	1	1	1	2	2	3	2	1	1	1	1	1	2.2	6.2
13-Oct-05	4	3	3	4	5	4	5	5	3	4	3	1	1	1	1	1	2	3	4	5	6	5	4	4	3.4	5.7
14-Oct-05	4	4	2	3	4	4	5	7	7	5	3	0	0	1	1	2	2	1	2	3	2	1	2	3	2.8	7.2
15-Oct-05	1	1	1	1	1	2	1	3	4	5	3	3	3	1	1	3	5	6	7	5	7	9	8	7	3.7	8.9
16-Oct-05	3	3	2	2	2	1	2	0	2	4	3	3	5	3	3	3	2	4	4	3	3	2	4	4	2.7	4.6
17-Oct-05	3	1	1	1	0	0	2	2	3	3	4	2	0	0	0	1	0	1	1	2	2	3	2	2	1.5	3.7
18-Oct-05	2	3	2	3	0	3	4	4	3	2	1	1	0	0	0	1	0	1	3	2	0	0	1	0	1.5	3.9
19-Oct-05	0	0	0	1	0	1	2	3	4	3	4	5	1	3	4	5	5	5	4	3	5	2	2	2	2.7	5.3
20-Oct-05	4	1	5	4	6	5	5	5	5	3	2	2	3	3	2	3	2	2	3	3	4	3	3	3	3.4	5.7
21-Oct-05	3	3	3	2	2	3	3	3	2	3	5	3	2	2	1	1	1	4	4	1	3	3	2	2	2.5	5.2
22-Oct-05	3	3	1	2	2	2	3	5	2	3	1	1	0	0	0	1	2	3	2	2	3	2	1	2	2.0	5.2
23-Oct-05	3	1	2	1	1	1	1	3	4	3	5	3	2	1	1	1	1	1	2	2	3	2	3	2	2.1	5.4
24-Oct-05	3	3	3	2	3	4	2	4	4	4	4	6	8	9	8	8	7	7	12	16	13	12	11	10	6.8	15.7
25-Oct-05	11	12	13	11	12	13	11	11	12	12	10	9	10	8	9	5	4	4	6	6	5	5	4	4	8.7	13.4
26-Oct-05	5	3	3	4	4	6	4	5	8	6	5	5	6	8	10	10	12	10	8	6	3	0	3	3	5.7	12.0
27-Oct-05	0	1	0	0	0	1	0	1	1	1	1	2	0	1	2	2	2	1	2	2	1	0	1	0	0.9	2.3
28-Oct-05	0	1	1	1	2	1	2	5	8	4	7	4	10	2	0	1	1	2	1	1	0	0	0	1	2.3	9.6
29-Oct-05	1	2	1	0	0	2	0	2	3	3	0	4	1	0	1	1	2	3	3	2	2	2	2	1	1.6	4.2
30-Oct-05	1	1	0	1	1	2	4	3	3	3	4	2	6	2	1	1	2	3	2	1	2	0	0	0	1.9	6.5
31-Oct-05	0	1	0	0	0	0	1	0	1	0	0	0	1	1	2	2	3	2	1	2	3	3	2	1	1.0	3.4
Hourly Avg	2.5	2.2	2.1	2.0	2.1	2.7	3.0	3.7	3.7	3.2	3.0	2.4	2.6	1.8	1.9	2.2	2.5	3.1	3.1	3.0	3.1	2.7	2.6	2.6		
Hourly Max	10.7	12.0	13.4	10.6	12.5	12.9	10.8	11.3	12.5	11.5	10.5	9.2	10.0	8.9	10.3	10.0	12.0	10.0	11.8	15.7	12.5	11.6	10.7	10.3		

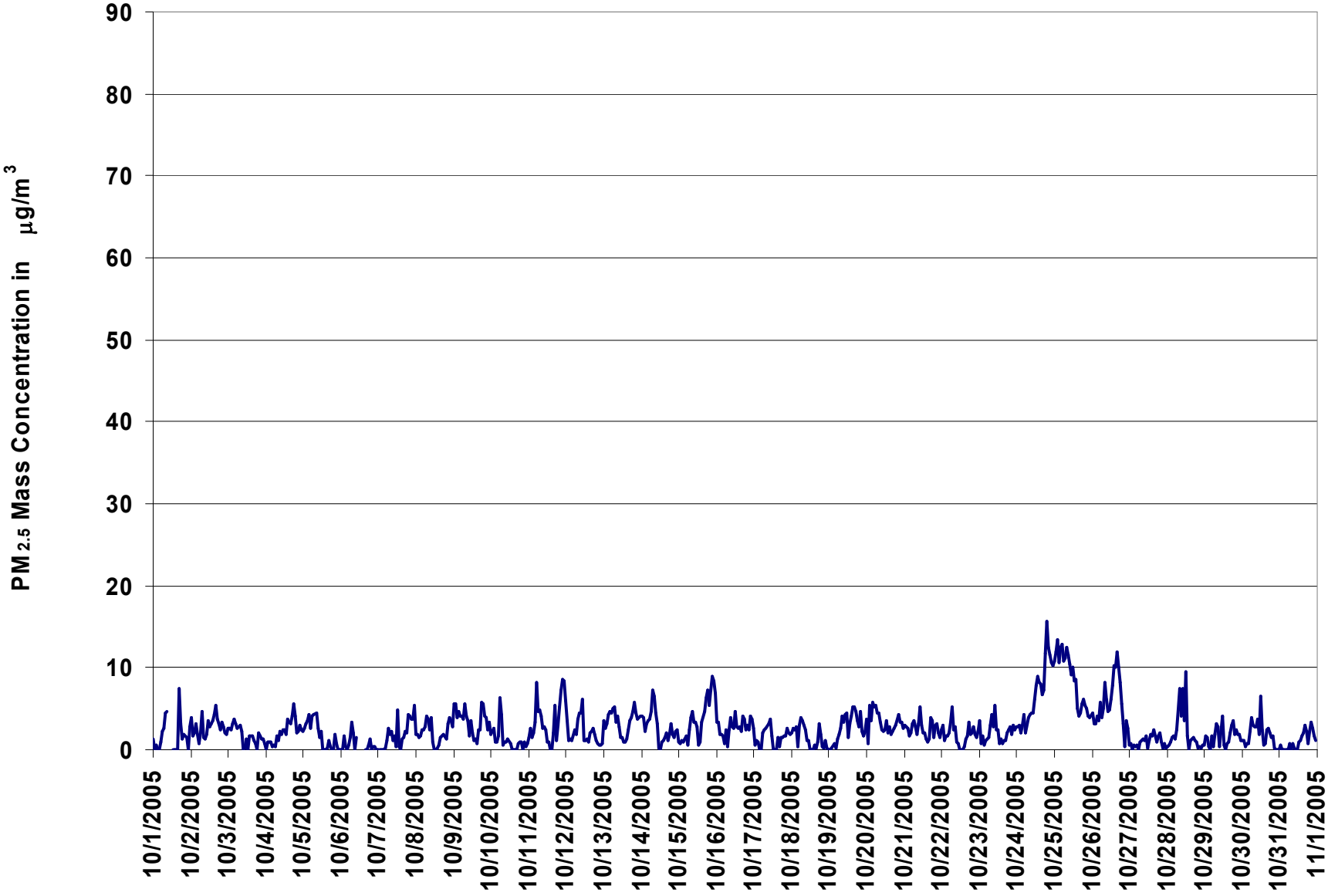


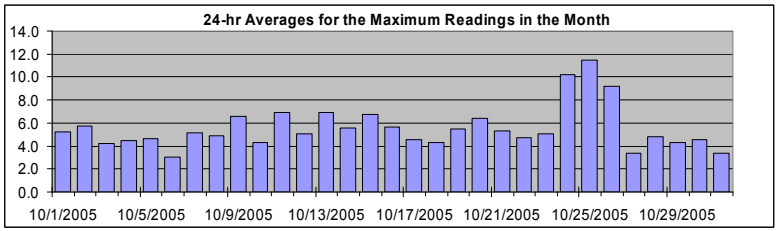
Figure 11. PAS - Cresent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Cresent Heights
Station Owner: PAS

HOURLY MAXIMUM TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: October 1, 2005 to November 1, 2005



Summary

Maximum 1-hr Average:	25.0	µg/m³	26-Oct	8:00 9:00
Maximum 24-hr Value:	11.5	µg/m³	25-Oct	

AIC Time:	0 hrs	Operational Time:	737 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.5%

Percentile	99	95	75	50	25	5	1	Average	Geomean
	15.8	12.4	6.6	4.9	3.6	2.0	1.4	5.6 µg/m	5.3 µg/m

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	24-hour Average	Daily Maximum
1-Oct-05	4	2	5	1	2	3	5	6	10	13	D	2	D	5	2	7	2	14	7	6	7	7	3	6	5.3	14.3
2-Oct-05	6	6	4	6	5	3	4	9	7	4	5	6	6	7	8	9	8	7	5	5	5	6	4	4	5.7	9.2
3-Oct-05	6	5	5	5	6	6	5	5	5	4	2	5	5	5	7	4	3	3	2	3	3	3	3	2	4.2	7.0
4-Oct-05	1	2	2	3	2	2	2	5	2	5	4	5	5	5	10	8	7	6	9	6	5	4	5	4	4.5	10.3
5-Oct-05	5	5	5	6	6	5	9	8	7	6	6	7	2	3	2	5	3	3	1	3	8	3	3	2	4.7	8.9
6-Oct-05	2	1	4	2	1	2	4	5	6	4	5	C	C	C	D	D	1	2	4	4	2	2	2	2	3.0	6.1
7-Oct-05	1	2	2	2	3	6	5	6	5	4	5	4	16	5	3	4	3	6	5	7	6	7	8	9	5.1	15.6
8-Oct-05	4	4	4	4	5	5	5	7	9	5	7	5	2	3	3	3	4	5	4	4	6	6	6	6	4.9	8.6
9-Oct-05	8	8	7	7	6	7	6	9	11	6	6	7	5	5	5	3	5	6	9	8	6	5	5	6	6.6	10.7
10-Oct-05	4	4	5	3	3	4	18	8	3	5	4	4	4	2	2	2	2	4	4	4	2	3	5	3	4.3	17.9
11-Oct-05	5	5	4	4	5	23	7	8	6	6	5	5	5	4	4	4	4	10	4	7	8	10	11	12	7.0	23.2
12-Oct-05	8	7	3	3	3	7	4	6	7	7	11	5	4	5	4	5	6	5	5	4	3	3	4	3	5.0	11.3
13-Oct-05	7	6	8	8	9	7	8	10	7	6	5	5	5	4	4	4	6	9	11	8	8	8	6	6	6.9	11.5
14-Oct-05	6	6	5	5	5	5	6	13	9	7	6	4	3	3	3	5	5	6	5	7	5	5	5	5	5.6	13.0
15-Oct-05	4	3	3	4	4	3	4	5	7	7	9	6	6	6	3	6	8	8	12	9	10	14	11	9	6.8	14.1
16-Oct-05	8	5	6	4	5	6	6	3	5	9	7	6	8	5	5	5	4	7	6	4	5	5	6	6	5.7	8.7
17-Oct-05	6	2	3	2	1	9	5	4	4	5	6	5	2	3	4	5	3	6	7	4	6	5	5	5	4.5	8.5
18-Oct-05	5	4	5	5	3	8	8	7	6	6	5	5	2	2	2	4	2	4	6	4	3	2	3	3	4.3	8.4
19-Oct-05	2	1	4	4	3	4	4	4	6	8	8	7	4	8	8	8	8	7	7	5	8	5	4	5	5.5	7.9
20-Oct-05	6	7	9	7	9	8	8	6	7	6	5	5	6	5	7	5	5	6	5	6	7	6	5	4	6.4	8.9
21-Oct-05	4	5	4	4	4	8	6	5	5	7	7	6	7	6	5	4	5	9	6	4	4	5	4	3	5.3	9.0
22-Oct-05	4	5	3	4	4	5	6	8	5	5	5	4	2	3	4	4	5	6	4	4	5	9	4	4	4.7	8.5
23-Oct-05	8	3	4	2	3	3	3	5	6	7	10	6	7	4	5	4	4	4	5	5	5	5	7	4	5.0	9.7
24-Oct-05	5	5	5	5	5	11	5	6	8	8	7	10	12	14	13	11	9	10	16	21	17	14	14	14	10.2	20.7
25-Oct-05	15	16	17	13	15	15	15	13	15	14	13	13	14	13	16	8	6	6	7	8	7	6	6	5	11.5	17.3
26-Oct-05	8	5	5	7	6	11	5	7	25	9	7	8	9	10	13	13	15	12	12	10	8	5	7	5	9.2	25.0
27-Oct-05	2	2	1	3	3	5	3	3	4	3	4	3	3	4	4	5	5	7	5	4	3	2	3	2	3.4	7.2
28-Oct-05	2	3	3	4	3	3	4	10	10	8	11	8	14	6	2	3	3	3	3	3	2	2	2	3	4.8	14.3
29-Oct-05	2	3	3	3	2	9	3	4	6	5	3	10	7	2	5	4	5	4	7	4	4	3	3	2	4.3	9.6
30-Oct-05	3	3	1	4	4	6	10	5	5	5	7	5	13	8	2	3	4	5	3	3	3	2	2	1	4.6	12.9
31-Oct-05	2	3	2	2	2	1	5	2	3	3	1	2	3	3	4	5	5	5	4	4	7	4	4	3	3.3	6.5
Hourly Avg	5.0	4.5	4.6	4.4	4.3	6.6	6.0	6.5	7.1	6.4	6.2	5.7	6.2	5.2	5.3	5.3	5.0	6.4	6.1	5.8	5.7	5.4	5.1	4.8		
Hourly Max	14.7	16.4	17.3	13.4	15.0	23.2	17.9	13.4	25.0	14.3	12.8	12.6	15.6	13.8	15.8	12.6	15.2	14.3	15.8	20.7	17.4	14.1	13.8	14.2		

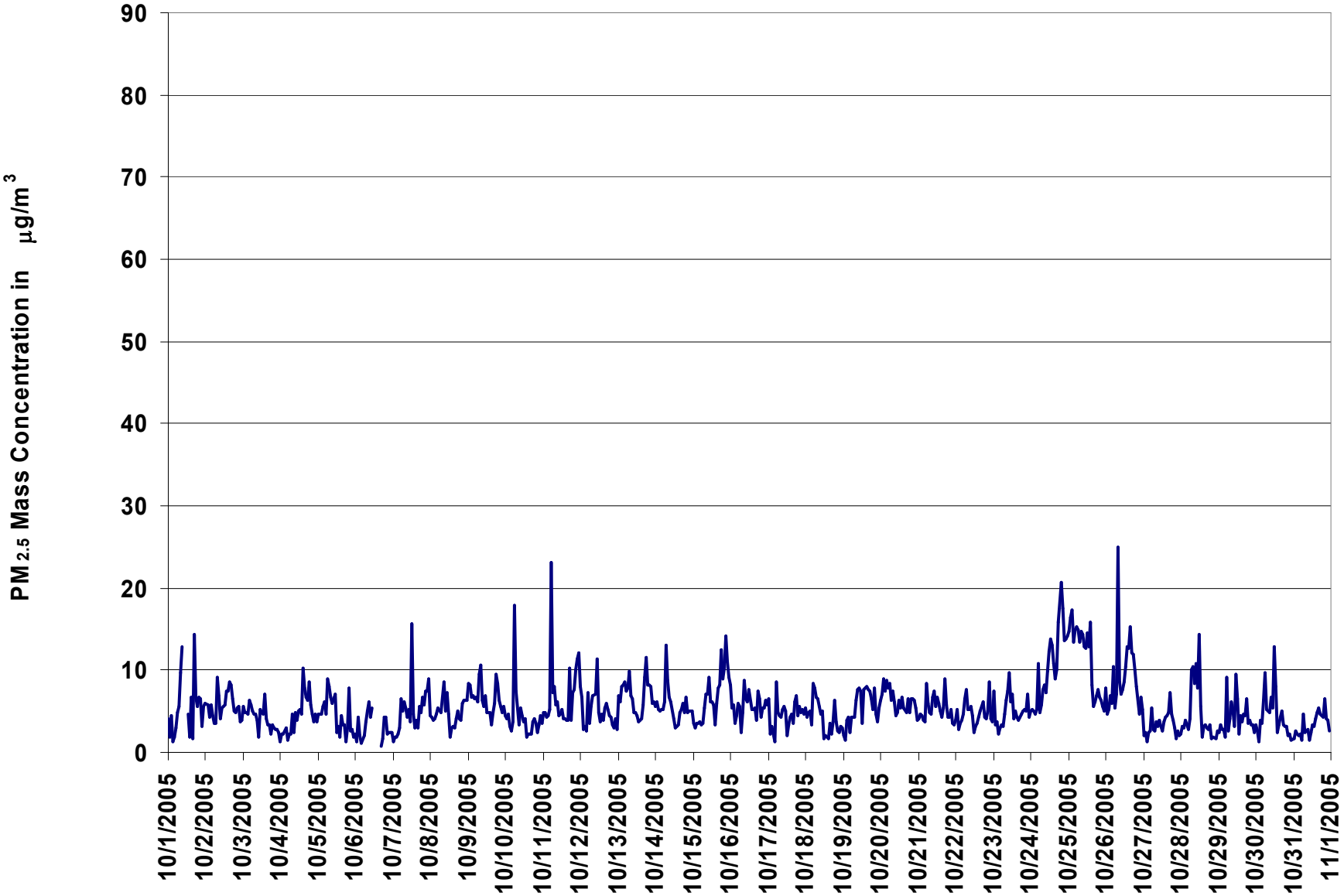
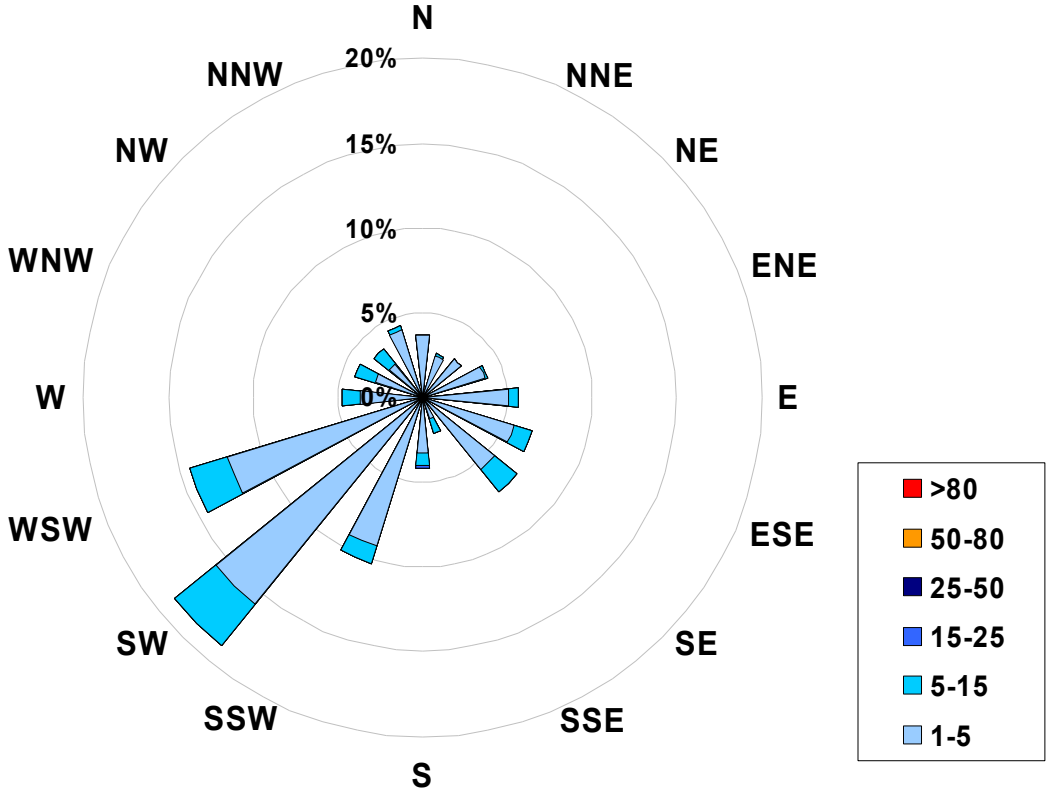


Figure 12. PAS - Cresent Heights Particulate Matter (less than 2.5 microns) 1-hr Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of $PM_{2.5}$ in $\mu g/m^3$			
Range			Frequency (hrs)
1.0	<	5	651
5	to	15	85
15	to	25	1
25	to	50	0
50	to	80	0
	>	80	0
Total Non-Zero Values			737

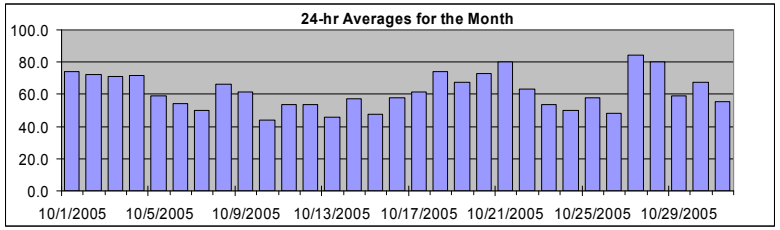
PAS - Cresent Heights Relative Humidity Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: October 1, 2005 to November 1, 2005



Summary

Maximum 1-hr Average:	92.8	%	21-Oct	9:00 10:00
Maximum 24-hr Value:	84.3	%	27-Oct	

AIC Time:	0 hrs	Operational Time:	744 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	91.7	88.7	77.5	61.9	47.8	33.4	25.0	61.8 %

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	24-hour Average	Daily Maximum
1-Oct-05	88	87	87	89	90	90	91	91	90	84	72	65	54	55	45	42	42	57	71	75	77	80	80	80	74.3	91.1
2-Oct-05	81	83	83	83	85	85	85	82	73	68	64	64	62	58	55	53	53	61	68	72	76	80	81	82	72.3	85.3
3-Oct-05	83	83	82	82	82	83	84	81	81	78	64	53	56	57	55	57	59	61	60	64	70	75	79	82	71.2	83.6
4-Oct-05	83	84	85	84	83	82	82	81	78	74	69	67	64	62	57	55	59	62	68	70	66	66	68	71	71.8	84.5
5-Oct-05	71	72	78	82	81	84	86	80	70	60	55	48	41	39	37	37	41	45	47	48	50	53	56	57	59.1	86.1
6-Oct-05	55	56	61	64	66	66	70	66	59	52	45	41	42	42	41	40	40	46	54	56	61	64	60	61	54.5	69.9
7-Oct-05	61	59	59	64	64	61	63	64	55	46	42	38	36	34	30	31	34	38	40	47	53	54	61	73	50.3	72.9
8-Oct-05	78	80	81	82	83	86	88	85	73	64	57	52	47	44	44	44	47	51	56	60	68	72	74	77	66.3	88.1
9-Oct-05	78	83	85	90	89	90	89	85	74	63	56	46	39	34	32	27	28	34	42	50	57	64	67	67	61.3	90.3
10-Oct-05	66	69	69	68	68	71	70	54	42	38	33	30	29	26	22	21	22	26	33	37	37	37	37	43	43.7	71.0
11-Oct-05	44	49	55	57	60	57	64	68	66	61	57	53	47	43	37	35	38	41	42	47	52	66	72	74	53.5	74.5
12-Oct-05	78	79	79	81	80	81	81	72	60	51	43	37	38	39	39	38	41	44	46	42	39	39	33	30	53.8	81.5
13-Oct-05	28	31	35	41	44	47	52	52	52	52	49	45	42	39	34	30	30	36	42	50	57	65	67	72	45.5	71.9
14-Oct-05	76	77	78	79	80	81	82	76	68	59	49	42	34	31	32	33	34	38	44	54	52	54	59	60	57.1	81.7
15-Oct-05	59	59	61	62	65	68	69	68	62	56	44	35	29	21	19	22	28	35	42	38	42	48	52	54	47.6	68.5
16-Oct-05	48	49	48	52	52	55	55	56	56	53	50	53	54	50	50	51	53	59	63	69	73	76	78	81	57.6	80.8
17-Oct-05	79	75	72	71	66	63	62	61	56	54	50	48	42	40	38	45	48	51	55	64	69	81	89	92	61.2	91.8
18-Oct-05	92	92	91	91	89	90	91	89	87	81	75	67	58	51	45	45	48	57	67	76	78	79	74	72	74.3	92.0
19-Oct-05	79	81	77	81	87	86	87	82	75	72	62	51	46	46	48	52	54	61	63	64	64	64	69	66	67.4	86.9
20-Oct-05	73	82	85	80	78	80	82	81	79	76	66	60	60	59	59	60	63	72	71	74	76	77	79	83	73.2	85.0
21-Oct-05	85	87	87	88	89	89	89	91	92	93	93	86	72	67	62	58	58	65	70	73	79	83	85	87	80.3	92.8
22-Oct-05	89	89	89	87	87	84	84	83	75	72	63	51	40	31	30	30	34	44	50	56	62	65	62	65	63.4	89.3
23-Oct-05	66	75	74	73	74	73	73	71	62	55	46	39	37	33	32	31	34	40	46	51	50	50	49	53	53.7	75.1
24-Oct-05	56	58	57	56	59	60	59	57	54	47	41	38	32	27	24	24	29	37	47	56	64	66	72	76	49.8	76.3
25-Oct-05	79	80	80	81	80	82	84	82	78	69	60	54	44	37	37	34	36	38	38	40	43	45	46	45	58.0	83.6
26-Oct-05	41	40	44	50	57	59	60	59	53	49	40	38	37	35	39	38	42	47	49	53	53	55	57	63	48.2	62.6
27-Oct-05	69	78	82	82	81	81	77	79	80	84	87	87	88	86	87	87	89	87	89	89	88	89	89	89	84.3	89.4
28-Oct-05	90	91	92	92	92	91	90	90	87	88	84	77	73	69	63	62	67	75	75	77	79	74	73	71	80.1	91.8
29-Oct-05	72	78	79	77	75	72	70	72	67	58	50	47	41	36	34	34	37	50	59	61	60	62	64	69	59.3	79.1
30-Oct-05	70	74	74	77	77	78	80	74	61	62	65	58	57	54	54	51	54	63	69	75	78	71	68	72	67.3	80.0
31-Oct-05	72	71	71	70	72	69	65	56	51	50	45	44	45	46	48	48	49	50	43	42	50	55	58	61	55.4	72.1
Hourly Avg	70.6	72.6	73.6	74.7	75.3	75.7	76.3	73.9	68.3	63.5	57.3	52.1	47.9	44.9	43.0	42.4	44.9	50.7	55.1	59.0	62.0	64.7	66.3	68.6		
Hourly Max	92.0	91.7	91.8	91.6	91.8	91.3	91.0	91.4	92.4	92.8	92.5	87.5	87.8	86.3	86.8	87.1	89.4	87.1	89.1	89.1	87.7	88.5	89.3	91.8		

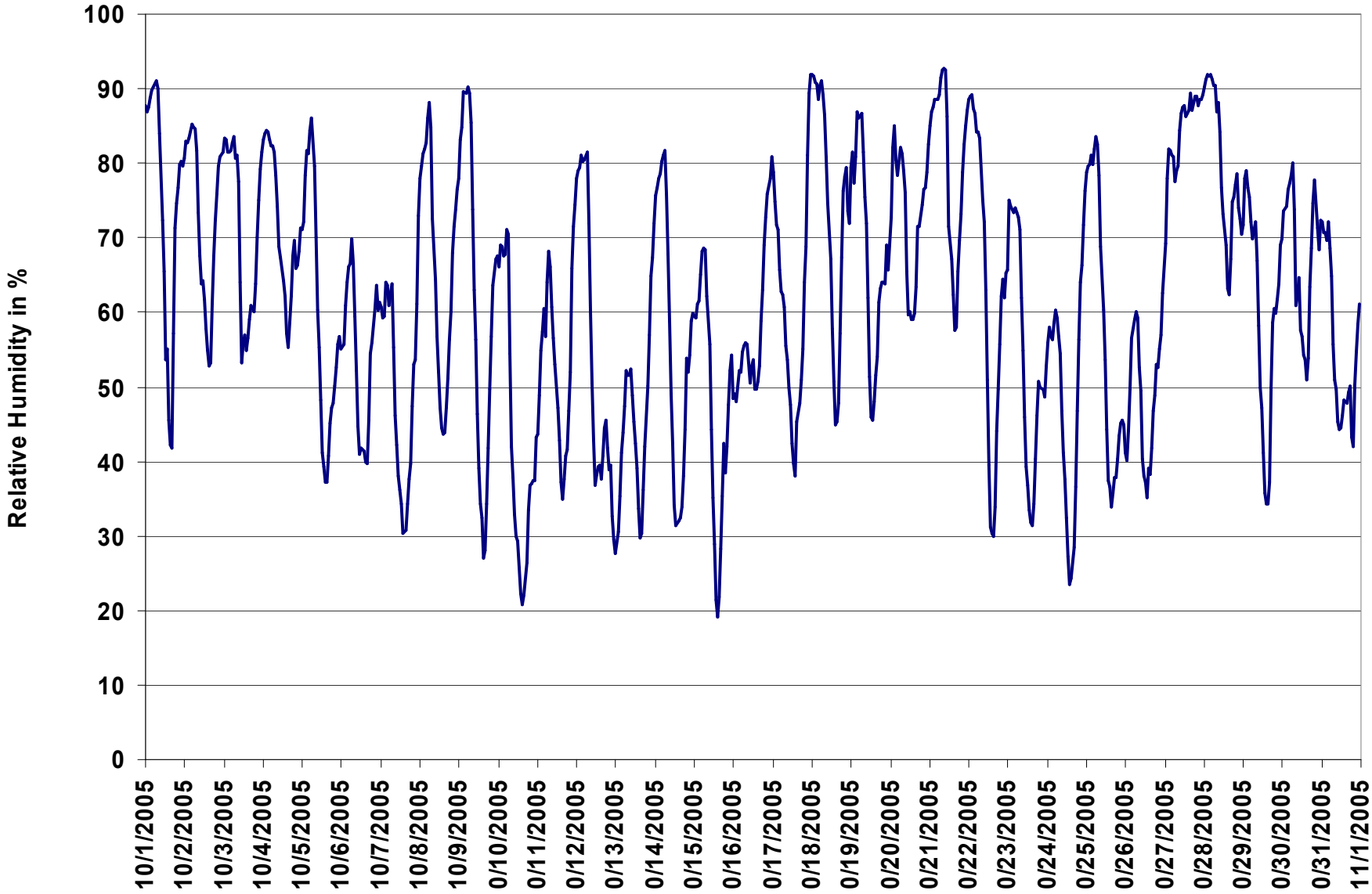


Figure 13. PAS - Cresent Heights Relative Humidity 1-hr Average Monthly Trend

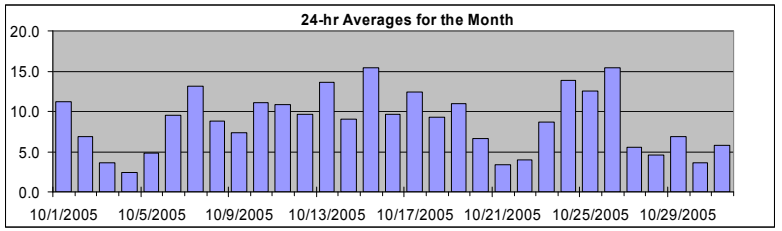
PAS - Cresent Heights Temperature Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: October 1, 2005 to November 1, 2005



Summary

Maximum 1-hr Average:	26.8	°C	15-Oct	13:00 14:00
Maximum 24-hr Value:	15.4	°C	26-Oct	

AIC Time:	0 hrs	Operational Time:	744 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	23.0	18.3	12.9	8.8	4.2	-0.4	-1.6	8.7 °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**

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	24-hour Average	Daily Maximum
1-Oct-05	10	10	10	9	9	9	9	10	11	13	15	16	16	16	16	16	15	13	10	9	8	7	6	5	11.2	16.2
2-Oct-05	5	5	5	6	5	5	4	4	6	7	9	9	10	11	12	12	12	10	8	6	5	4	3	3	6.9	12.1
3-Oct-05	2	2	2	2	2	2	1	2	2	3	4	5	6	7	8	8	7	6	5	4	3	2	1	0	3.6	7.7
4-Oct-05	0	-1	-1	-1	-1	-1	-2	-2	0	1	3	3	5	6	7	7	6	5	4	4	4	4	3	2	2.4	7.5
5-Oct-05	2	1	0	-2	-1	-1	-3	-1	2	5	7	9	10	11	11	11	10	8	7	6	6	6	6	5	4.9	11.5
6-Oct-05	5	5	5	4	3	3	3	4	7	10	12	13	14	15	15	16	16	14	12	11	10	9	10	10	9.5	16.4
7-Oct-05	11	11	11	10	10	11	11	10	13	16	17	18	18	19	19	18	17	15	13	11	10	10	9	8	13.2	19.0
8-Oct-05	8	7	6	5	4	3	3	3	6	9	12	13	15	15	15	15	14	13	11	10	8	7	6	5	8.8	15.4
9-Oct-05	5	4	3	2	1	1	0	1	4	7	10	12	15	16	17	17	16	13	11	8	6	4	2	2	7.3	17.3
10-Oct-05	2	2	2	2	2	2	2	7	11	13	15	16	17	18	18	19	18	16	15	14	14	14	14	12	11.0	18.6
11-Oct-05	12	11	10	9	9	11	10	9	10	11	12	13	15	16	16	15	14	13	12	10	8	6	5	3	10.9	15.9
12-Oct-05	2	1	1	0	0	-1	-2	0	5	9	14	17	17	17	17	18	17	15	15	15	15	13	13	14	9.6	17.6
13-Oct-05	15	14	13	12	11	11	11	12	13	14	15	16	18	18	19	19	18	16	14	12	11	9	8	6	13.6	19.3
14-Oct-05	4	4	3	2	2	1	1	2	5	9	12	14	15	16	17	17	17	14	12	9	10	9	9	9	9.0	17.1
15-Oct-05	9	9	10	10	9	8	8	8	11	13	18	22	25	27	26	25	23	20	18	17	15	13	12	11	15.4	26.8
16-Oct-05	12	12	12	10	10	9	9	9	10	12	13	12	12	13	12	12	11	10	8	7	6	4	4	3	9.6	13.2
17-Oct-05	5	7	9	9	10	12	12	12	14	15	16	18	18	18	17	16	15	14	13	12	11	9	9	8	12.4	18.2
18-Oct-05	8	8	8	8	7	6	6	6	7	9	11	12	13	14	15	15	15	12	9	7	6	6	7	8	9.3	15.4
19-Oct-05	6	5	6	5	4	3	2	4	6	9	13	17	18	18	18	17	17	15	14	14	14	13	11	12	10.9	18.3
20-Oct-05	12	10	9	8	7	6	5	5	6	7	8	8	8	8	7	7	6	5	5	5	5	4	4	3	6.7	12.0
21-Oct-05	2	1	0	0	0	-1	-1	-1	0	1	2	5	8	9	10	11	10	8	7	5	3	2	1	0	3.4	10.8
22-Oct-05	-1	-1	-2	-2	-2	-3	-2	-2	1	3	7	10	12	13	13	12	11	9	7	5	3	2	2	1	4.0	12.9
23-Oct-05	2	0	-1	-1	-1	-1	-1	0	4	8	12	16	18	19	20	19	17	14	12	11	11	11	11	10	8.7	19.6
24-Oct-05	9	9	10	10	10	9	9	10	11	15	17	19	21	24	24	24	22	18	15	13	10	9	7	6	13.9	24.5
25-Oct-05	5	5	5	4	4	4	4	4	6	9	12	16	21	23	23	22	21	19	18	17	16	16	15	15	12.5	23.1
26-Oct-05	16	16	15	13	12	11	11	11	13	16	19	20	21	21	20	20	19	17	16	14	14	13	13	12	15.4	21.2
27-Oct-05	10	9	9	9	8	8	7	6	5	5	5	5	5	5	4	4	4	4	4	4	4	3	2	2	5.5	10.3
28-Oct-05	1	0	0	0	-1	-1	-1	-1	1	1	4	6	9	11	11	11	10	8	7	6	6	7	6	7	4.6	11.4
29-Oct-05	6	4	4	4	4	4	4	3	4	7	10	11	12	13	13	13	12	9	7	6	6	5	4	3	6.9	12.9
30-Oct-05	3	2	1	1	0	0	0	1	4	4	4	6	7	9	9	10	9	6	5	3	1	2	1	0	3.7	9.8
31-Oct-05	0	0	0	0	0	1	2	4	5	7	8	8	9	9	10	11	10	10	10	10	8	6	5	4	5.7	10.8
Hourly Avg	6.0	5.5	5.3	4.8	4.5	4.2	3.9	4.6	6.6	8.6	10.8	12.4	13.7	14.7	14.9	14.8	13.8	11.9	10.5	9.2	8.2	7.4	6.7	6.1		
Hourly Max	15.7	16.2	15.0	13.5	11.7	11.6	12.0	12.4	14.3	15.8	18.6	21.8	24.6	26.8	26.3	25.1	22.9	20.3	18.0	17.3	16.3	15.6	15.1	14.9		

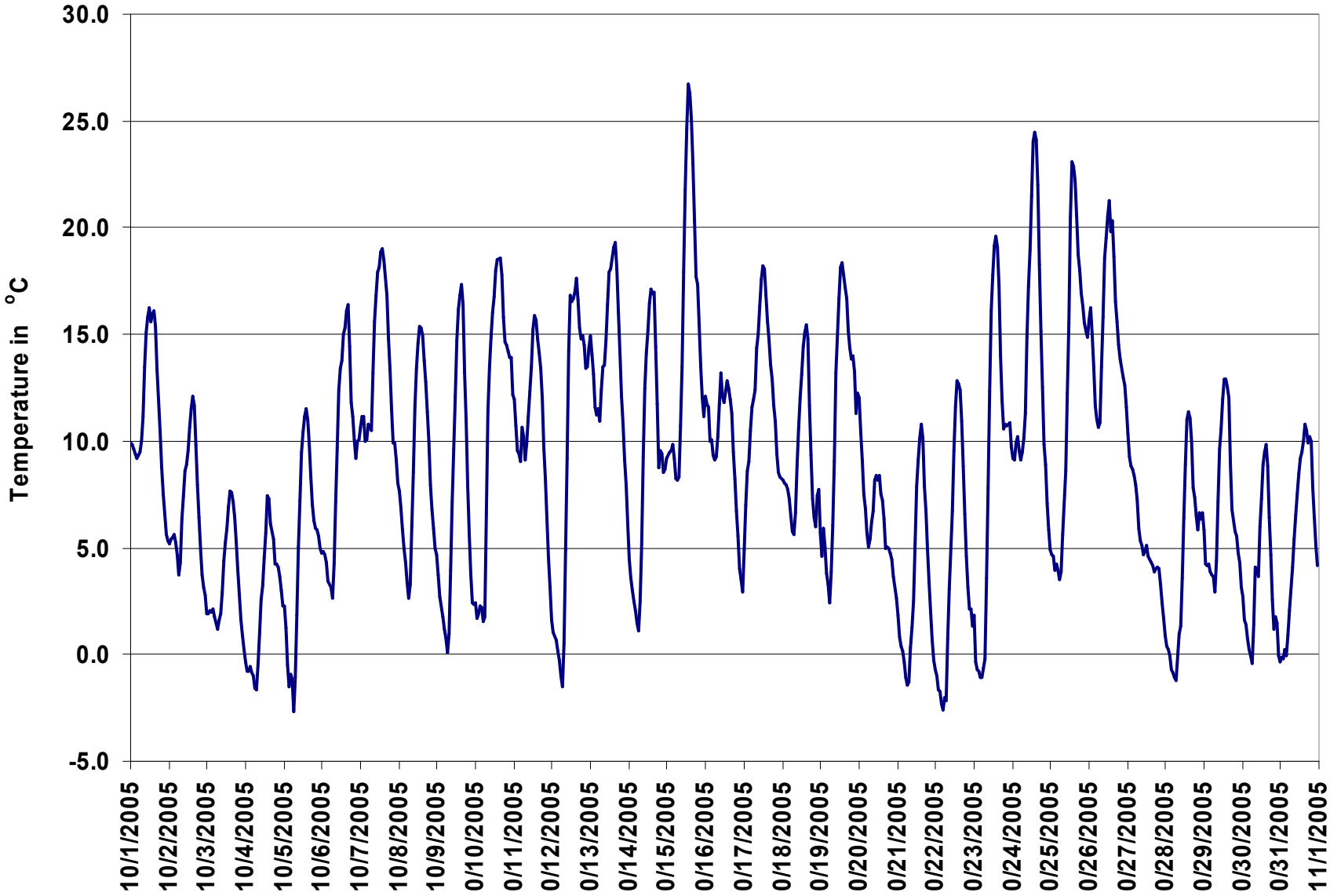


Figure 14. PAS - Cresent Heights Temperature 1-hr Average Monthly Trend

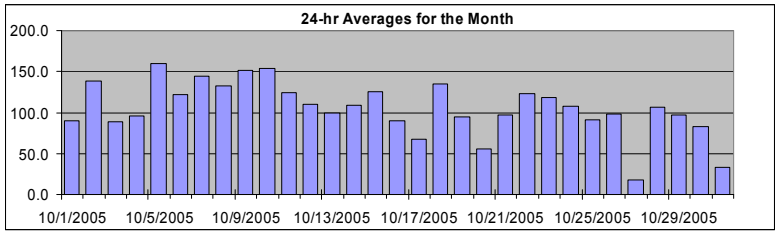
PAS - Cresent Heights Solar Radiation Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Solar Radiation (SR)

Monitoring Dates: October 1, 2005 to November 1, 2005



Summary

Maximum 1-hr Average:	579.1	W/m²	5-Oct	11:00 12:00
Maximum 24-hr Value:	159.9	W/m²	5-Oct	

AIC Time:	0 hrs	Operational Time:	744 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	548.1	453.6	195.9	0.2	0.0	0.0	0.0	105.1 W/m²

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	24-hour Average	Daily Maximum
1-Oct-05	0	0	0	0	0	0	4	47	130	229	255	415	315	179	226	224	99	30	0	0	0	0	0	0	89.7	414.6
2-Oct-05	0	0	0	0	0	0	4	74	248	343	453	271	392	556	372	369	196	36	1	0	0	0	0	0	138.1	555.6
3-Oct-05	0	0	0	0	0	0	8	61	159	216	264	221	298	333	261	181	98	28	0	0	0	0	0	0	88.7	333.4
4-Oct-05	0	0	0	0	0	0	7	56	98	178	298	267	275	327	348	304	122	25	0	0	0	0	0	0	96.1	347.9
5-Oct-05	0	0	0	0	0	0	9	130	275	413	517	579	578	546	334	290	138	31	0	0	0	0	0	0	159.9	579.1
6-Oct-05	0	0	0	0	0	0	9	117	258	309	492	382	343	396	209	259	134	22	0	0	0	0	0	0	122.1	491.6
7-Oct-05	0	0	0	0	0	0	3	108	260	395	503	563	409	496	331	249	131	16	0	0	0	0	0	0	144.4	562.9
8-Oct-05	0	0	0	0	0	0	4	87	245	354	507	513	506	389	274	194	83	18	0	0	0	0	0	0	132.3	513.1
9-Oct-05	0	0	0	0	0	0	3	99	257	388	490	551	549	519	300	309	160	11	0	0	0	0	0	0	151.6	551.0
10-Oct-05	0	0	0	0	0	0	5	107	257	393	496	556	553	523	323	312	151	10	0	0	0	0	0	0	153.6	555.9
11-Oct-05	0	0	0	0	0	0	5	56	123	311	415	509	530	476	274	180	83	15	0	0	0	0	0	0	124.1	529.7
12-Oct-05	0	0	0	0	0	0	4	118	250	339	437	339	295	324	265	216	56	7	0	0	0	0	0	0	110.4	437.3
13-Oct-05	0	0	0	0	0	0	2	23	80	129	208	440	463	207	353	313	150	11	0	0	0	0	0	0	99.1	463.1
14-Oct-05	0	0	0	0	0	0	3	87	223	360	351	339	275	386	258	176	133	13	0	0	0	0	0	0	108.5	385.7
15-Oct-05	0	0	0	0	0	0	1	45	223	248	447	505	490	478	288	203	70	9	0	0	0	0	0	0	125.3	505.1
16-Oct-05	0	0	0	0	0	0	2	28	51	113	343	225	237	440	337	247	116	6	0	0	0	0	0	0	89.4	440.0
17-Oct-05	0	0	0	0	0	0	1	69	84	58	222	324	363	181	124	100	73	9	0	0	0	0	0	0	67.0	363.1
18-Oct-05	0	0	0	0	0	0	1	86	230	340	440	510	470	464	333	254	110	5	0	0	0	0	0	0	135.1	510.3
19-Oct-05	0	0	0	0	0	0	3	67	157	279	390	449	348	291	151	100	28	1	0	0	0	0	0	0	94.3	449.5
20-Oct-05	0	0	0	0	0	0	1	35	68	101	317	190	232	222	76	49	33	1	0	0	0	0	0	0	55.2	317.4
21-Oct-05	0	0	0	0	0	0	1	22	51	105	190	438	462	444	268	240	92	4	0	0	0	0	0	0	96.6	461.6
22-Oct-05	0	0	0	0	0	0	1	66	211	322	419	476	474	440	239	230	86	3	0	0	0	0	0	0	123.6	476.4
23-Oct-05	0	0	0	0	0	0	1	51	189	313	410	468	463	431	218	223	81	3	0	0	0	0	0	0	118.7	467.8
24-Oct-05	0	0	0	0	0	0	1	52	131	318	306	414	454	422	213	205	55	2	0	0	0	0	0	0	107.3	453.7
25-Oct-05	0	0	0	0	0	0	1	26	106	215	326	409	405	319	189	139	49	3	0	0	0	0	0	0	91.1	408.5
26-Oct-05	0	0	0	0	0	0	0	34	168	256	292	455	411	332	183	184	41	1	0	0	0	0	0	0	98.2	454.9
27-Oct-05	0	0	0	0	0	0	0	6	27	37	44	74	65	66	53	31	9	1	0	0	0	0	0	0	17.2	74.2
28-Oct-05	0	0	0	0	0	0	0	38	204	246	366	469	426	392	173	209	42	2	0	0	0	0	0	0	106.9	468.6
29-Oct-05	0	0	0	0	0	0	0	32	160	281	350	365	354	384	181	156	70	2	0	0	0	0	0	0	97.3	384.2
30-Oct-05	0	0	0	0	0	0	0	25	66	116	170	391	423	389	196	174	50	1	0	0	0	0	0	0	83.4	422.8
31-Oct-05	0	0	0	0	0	0	0	10	31	51	82	141	160	129	101	72	21	0	0	0	0	0	0	0	33.3	160.1
Hourly Avg	0.0	0.0	0.0	0.0	0.0	0.0	2.7	60.0	161.9	250.2	348.4	395.1	387.7	370.3	240.4	206.1	89.0	10.5	0.1	0.0	0.0	0.0	0.0	0.0		
Hourly Max	0.1	0.1	0.1	0.1	0.1	0.1	9.0	129.7	274.5	412.5	517.0	579.1	577.8	555.6	372.1	369.2	195.7	35.6	0.5	0.1	0.2	0.1	0.2	0.1		

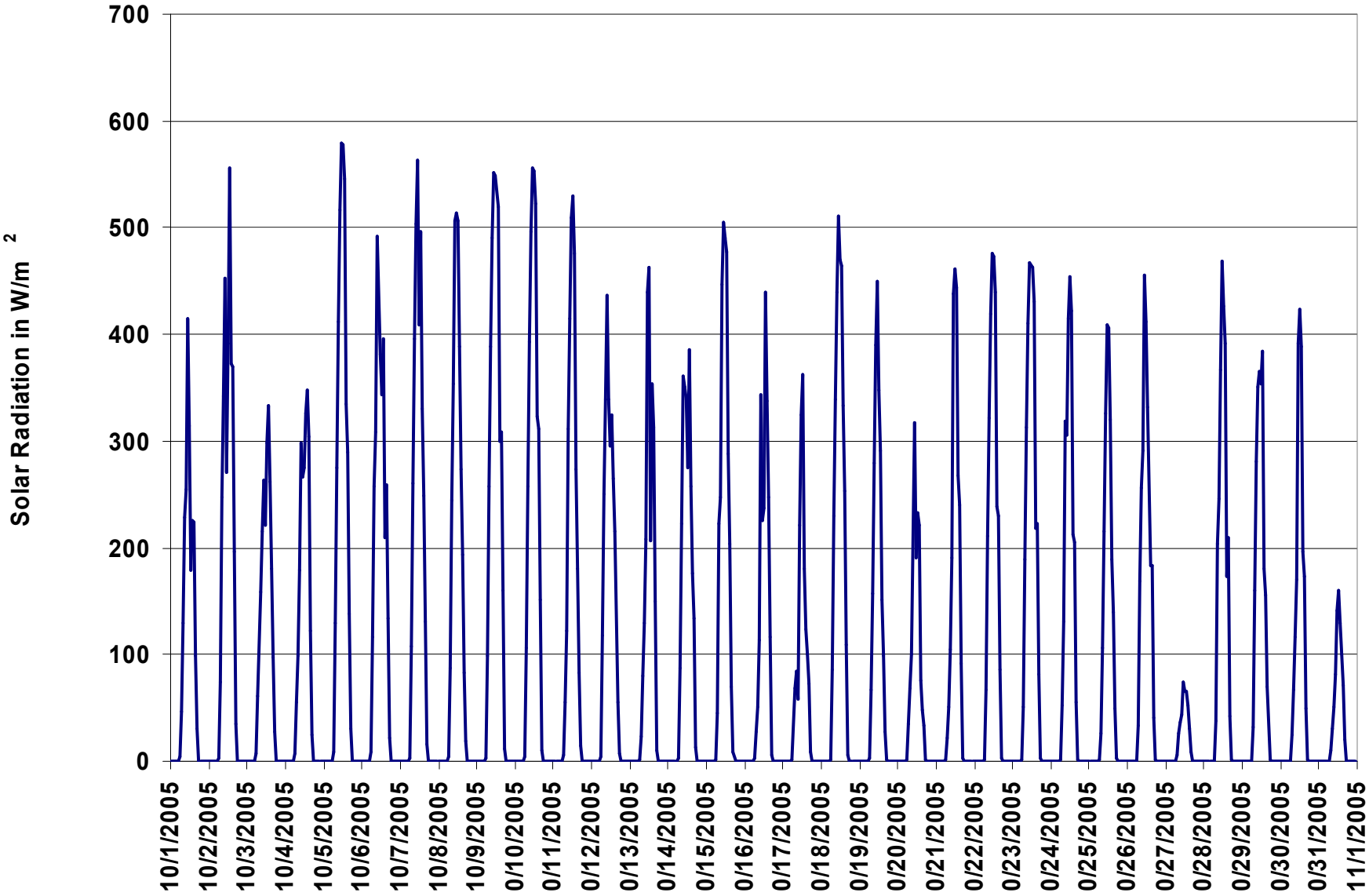


Figure 15. PAS - Cresent Heights Solar Radiation 1-hr Average Monthly Trend

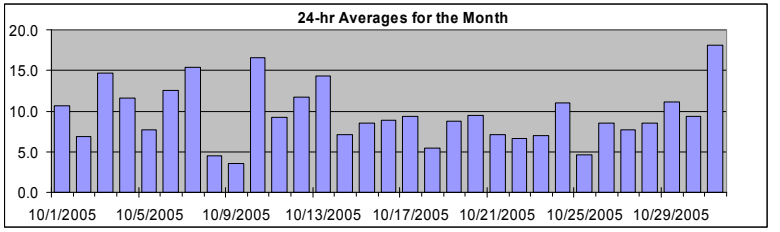
PAS - Cresent Heights Scalar Wind Speed Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: October 1, 2005 to November 1, 2005



Summary

Maximum 1-hr Average:	33.0	km/hr	31-Oct	12:00 13:00
Maximum 24-hr Value:	18.1	km/hr	31-Oct	

Calm Time:	3 hrs	**0%** calms		Operational Time:			740 hrs	
Calibration Time:	0 hrs			AMD Operational Uptime:			99.9%	
Percentile	99	95	75	50	25	5	1	AverageS
	28.6	20.6	12.6	8.5	5.0	2.4	1.1	9.6 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**

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	24-hr Scalar Average	Daily Max
1-Oct-05	10	13	12	13	9	6	2	3	5	8	22	23	19	14	19	17	15	10	8	8	8	6	5	2	10.7	23.0
2-Oct-05	3	4	4	5	4	6	5	4	7	9	10	8	10	9	8	7	7	6	9	11	7	7	7	7	6.8	11.0
3-Oct-05	9	10	12	10	10	9	12	16	19	18	20	20	20	17	16	17	15	14	14	16	16	13	14	12	14.6	20.4
4-Oct-05	12	12	12	15	14	13	13	11	10	11	14	14	11	12	12	12	13	10	7	5	13	12	12	9	11.6	14.7
5-Oct-05	7	8	7	3	1	3	3	6	7	10	10	8	10	12	11	12	12	11	9	8	6	6	7	9	7.7	12.4
6-Oct-05	8	11	11	15	14	15	7	8	15	18	18	20	23	23	18	14	15	9	3	8	4	3	8	9	12.5	23.3
7-Oct-05	11	12	13	9	11	18	12	9	20	25	26	25	20	22	21	23	21	16	17	13	9	7	4	5	15.3	25.9
8-Oct-05	4	3	7	7	5	2	1	1	3	3	3	5	7	5	4	5	7	8	8	7	4	4	4	3	4.5	8.4
9-Oct-05	2	2	calm	1	2	2	3	3	6	8	9	6	4	5	3	3	3	1	3	4	4	4	3	3	3.6	8.7
10-Oct-05	3	2	4	3	3	2	2	3	14	17	27	29	31	26	29	28	25	20	18	22	24	23	23	20	16.6	30.7
11-Oct-05	19	11	15	18	16	12	9	5	7	10	11	11	12	13	13	12	9	3	5	3	2	1	3	2	9.2	18.7
12-Oct-05	2	4	5	5	4	4	4	3	4	3	8	14	17	19	23	17	16	14	14	17	17	18	22	25	11.7	25.4
13-Oct-05	31	24	20	9	10	17	12	13	18	11	11	19	21	18	20	17	19	15	9	5	6	7	5	6	14.4	31.1
14-Oct-05	5	9	7	7	9	2	4	5	5	6	10	12	15	11	7	3	7	10	6	5	9	6	5	6	7.2	15.4
15-Oct-05	8	7	7	5	5	8	7	5	9	7	5	3	3	9	18	17	18	13	7	9	8	8	9	8	8.5	18.5
16-Oct-05	10	14	14	10	7	10	9	5	10	6	10	12	12	13	14	11	7	5	5	6	6	6	5	3	8.8	14.1
17-Oct-05	9	9	8	9	14	14	9	7	11	8	9	10	10	11	16	10	9	6	9	13	11	9	2	3	9.4	16.0
18-Oct-05	4	6	6	6	6	3	5	7	8	10	10	10	6	4	5	4	3	3	5	4	6	3	4	3	5.4	10.3
19-Oct-05	2	3	6	3	2	calm	4	2	2	2	2	4	15	14	14	12	10	14	7	12	18	20	16	16	8.7	19.6
20-Oct-05	17	11	10	9	11	8	8	10	6	11	13	13	12	14	12	11	16	7	4	6	4	5	5	4	9.4	17.5
21-Oct-05	3	4	4	7	9	8	9	7	10	10	10	8	13	12	9	5	3	4	7	10	7	3	5	3	7.2	13.0
22-Oct-05	2	2	5	5	5	7	6	6	5	8	7	10	9	11	15	15	12	5	7	4	4	3	4	2	6.6	14.9
23-Oct-05	5	2	4	4	3	4	2	4	2	2	3	10	13	15	13	12	12	8	6	8	10	8	9	10	7.0	15.1
24-Oct-05	10	15	17	17	15	17	15	13	10	8	15	20	21	13	12	10	5	2	3	5	4	6	4	4	11.0	21.4
25-Oct-05	4	4	2	4	1	3	3	1	1	1	2	2	2	2	5	7	8	7	11	9	13	6	8	6	4.6	12.6
26-Oct-05	8	10	7	9	12	6	6	9	7	11	19	18	12	10	8	6	6	6	4	4	4	7	8	8	8.5	19.5
27-Oct-05	9	5	5	5	4	5	11	11	11	11	11	11	9	8	8	8	7	5	5	5	6	7	8	7	7.7	11.1
28-Oct-05	6	2	4	3	3	5	calm	D	3	5	3	4	2	3	16	18	10	9	11	8	13	19	21	21	8.5	21.3
29-Oct-05	18	14	11	15	14	16	17	14	10	12	11	12	10	12	11	10	7	4	7	9	7	9	9	7	11.1	18.4
30-Oct-05	9	12	16	11	12	10	5	4	7	7	10	13	13	6	6	8	6	5	9	8	6	15	13	15	9.4	16.1
31-Oct-05	16	16	12	6	6	12	16	20	19	20	24	31	33	32	29	21	21	20	21	23	15	11	6	6	18.1	33.0
1-hr Average	8.5	8.4	8.9	8.0	7.8	8.2	7.5	7.2	8.7	9.6	11.7	13.0	13.5	12.7	13.4	12.0	11.0	8.7	8.3	8.9	8.8	8.4	8.3	7.9		
Hourly Max	31.1	24.5	19.5	17.5	16.3	17.6	17.3	19.7	20.3	24.9	27.2	30.9	33.0	31.8	29.3	27.9	24.9	19.9	20.6	23.0	24.5	23.0	23.3	25.4		

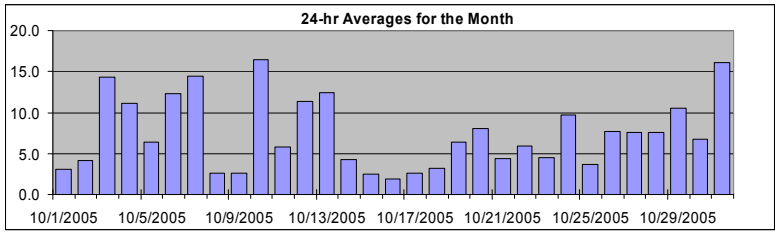
PAS - Cresent Heights Vector Wind Speed Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: October 1, 2005 to November 1, 2005



Summary

Maximum 1-hr Average:	32.8	km/hr	31-Oct	12:00 13:00
Maximum 24-hr Value:	16.4	km/hr	10-Oct	

Calm Time:	13 hrs	**2%** calms			Operational Time:			731 hrs		
Calibration Time:	0 hrs				AMD Operational Uptime:			100.0%		
Percentile	99	95	75	50	25	5	1			AverageV
	28.5	20.6	12.5	8.3	4.9	2.0	1.3			10.9 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**

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	24-hr Vector Average	Daily Max
1-Oct-05	10	13	12	13	9	6	2	1	4	6	21	23	19	14	18	17	15	9	8	8	8	6	5	2	3.1	22.7
2-Oct-05	3	4	4	5	4	6	5	4	7	9	9	8	9	8	7	6	6	6	9	11	7	6	6	6	4.2	10.9
3-Oct-05	9	10	12	10	10	9	12	16	18	18	19	20	19	17	16	17	15	14	14	15	16	13	14	12	14.3	20.1
4-Oct-05	12	12	12	15	13	12	13	10	9	11	14	13	10	11	11	12	13	9	7	4	13	12	12	9	11.1	14.6
5-Oct-05	6	8	6	3	1	3	2	6	7	10	9	7	10	12	11	12	11	11	9	8	6	5	6	8	6.4	12.0
6-Oct-05	8	10	11	15	14	15	7	8	15	18	18	20	23	23	17	13	15	9	3	8	4	3	8	9	12.4	23.0
7-Oct-05	11	12	13	9	11	18	11	9	20	25	26	25	20	21	20	23	21	16	17	13	9	6	3	4	14.4	25.8
8-Oct-05	2	2	7	7	5	calm	calm	calm	3	2	3	4	6	4	3	5	6	8	8	7	4	4	4	3	2.6	8.3
9-Oct-05	1	1	calm	1	1	2	2	3	6	8	8	6	3	4	1	1	2	calm	3	4	4	4	3	3	2.6	8.3
10-Oct-05	3	1	4	2	3	1	2	3	13	17	27	29	30	26	29	28	25	19	18	22	24	23	23	20	16.4	30.4
11-Oct-05	19	10	14	17	16	11	9	5	6	10	11	11	12	12	13	12	8	3	5	2	2	calm	2	2	5.8	18.5
12-Oct-05	2	4	5	5	4	4	4	2	4	3	8	13	17	19	23	16	16	14	14	17	17	18	22	25	11.4	25.3
13-Oct-05	31	24	19	9	10	17	12	13	18	11	11	19	21	18	20	17	18	14	9	5	5	7	4	6	12.4	31.1
14-Oct-05	4	9	7	7	8	2	4	5	5	6	10	11	15	10	7	3	6	10	6	5	9	6	5	6	4.3	15.2
15-Oct-05	8	7	7	5	4	8	7	5	8	7	5	2	1	8	18	16	18	13	7	9	8	7	9	7	2.5	18.3
16-Oct-05	10	14	14	10	6	10	9	5	10	6	8	12	11	13	14	11	7	5	5	5	6	6	4	3	1.9	13.8
17-Oct-05	9	8	7	8	13	14	9	7	11	7	8	9	10	10	16	10	8	6	8	13	11	9	2	3	2.6	15.8
18-Oct-05	4	6	6	6	6	2	5	7	8	10	10	10	6	4	4	4	3	2	5	4	5	2	3	1	3.2	9.7
19-Oct-05	2	2	6	3	2	calm	4	2	1	1	calm	4	15	13	14	12	10	14	6	12	18	19	16	16	6.4	19.5
20-Oct-05	17	11	10	9	11	8	8	10	6	11	13	12	12	14	12	11	15	7	2	6	4	4	5	3	8.0	17.4
21-Oct-05	2	4	4	7	9	8	9	7	10	10	9	8	13	12	9	4	3	3	7	10	7	3	5	3	4.4	12.7
22-Oct-05	1	2	5	5	5	7	6	5	4	8	7	9	9	11	14	15	12	5	6	4	4	3	4	2	5.9	14.7
23-Oct-05	4	2	3	3	3	3	1	4	2	2	2	9	13	15	13	12	11	8	6	8	9	8	9	10	4.5	14.7
24-Oct-05	10	15	17	17	15	17	15	13	10	8	15	20	21	12	12	10	5	2	1	4	3	6	4	4	9.7	21.3
25-Oct-05	4	4	2	4	1	2	3	1	calm	calm	2	2	1	1	4	6	8	7	10	9	12	6	7	5	3.6	12.5
26-Oct-05	7	9	6	8	11	6	6	8	7	11	19	17	12	10	7	5	6	5	4	4	4	6	7	7	7.7	19.2
27-Oct-05	9	5	5	5	4	5	11	11	11	10	11	10	9	8	8	8	7	5	5	5	6	7	8	7	7.6	11.1
28-Oct-05	5	1	3	3	3	5	calm	calm	3	4	3	2	1	calm	15	18	10	9	11	8	12	19	20	21	7.6	21.2
29-Oct-05	18	13	10	15	14	15	17	14	10	11	10	12	10	11	11	10	7	4	6	9	7	9	9	6	10.6	17.8
30-Oct-05	8	12	16	11	12	10	5	3	7	7	10	11	13	3	5	7	6	5	8	8	6	14	13	15	6.8	16.1
31-Oct-05	16	16	12	5	6	11	16	20	19	19	24	31	33	32	29	21	21	20	21	23	14	11	5	6	16.1	32.8
1-hr Vector	4.7	4.3	4.6	3.8	4.2	4.6	3.5	3.1	4.3	4.7	5.8	6.3	6.7	6.2	6.5	5.3	3.9	2.9	2.2	2.7	2.9	3.8	4.9	4.7		
Hourly Max	31.1	24.4	19.4	17.5	16.3	17.6	17.2	19.6	20.2	24.7	27.0	30.7	32.8	31.7	29.0	27.7	24.7	19.8	20.5	22.9	24.4	22.9	23.1	25.3		

PAS - Cresent Heights Wind Direction Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2005 to November 1, 2005

Summary

Calm Time:	0 hrs	**0%** calms				Operational Time:			744 hrs																					
Calibration Time:	0 hrs					AMD Operational Uptime:			100.0%																					
Percentile	99	95	75	50	25	5	1	Average																						
	352.1	332.9	241.5	211.2	131.5	44.4	7.8	219 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**

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	24-hour Average	WD Sector
1-Oct-05	104	111	96	109	102	91	65	76	132	220	215	222	244	251	257	260	282	306	336	342	337	337	334	299	243	WSW
2-Oct-05	280	259	256	253	236	267	283	287	309	312	301	308	304	295	307	309	336	4	13	17	31	93	64	84	321	NW
3-Oct-05	30	55	71	65	79	77	68	74	77	82	88	94	89	85	85	85	79	66	57	71	83	86	92	82	78	ENE
4-Oct-05	71	65	70	74	81	80	61	62	74	96	78	86	98	98	102	93	87	93	102	58	88	98	114	122	85	E
5-Oct-05	122	87	103	109	141	102	121	111	120	119	132	170	189	194	176	176	179	171	182	197	167	121	187	200	158	SSE
6-Oct-05	234	207	221	201	197	203	204	206	195	196	196	203	208	206	198	188	199	193	212	198	208	208	201	207	202	SSW
7-Oct-05	212	209	211	201	207	204	230	243	235	249	253	255	259	252	253	248	247	248	237	228	232	254	275	319	240	WSW
8-Oct-05	10	256	229	232	234	112	90	148	193	209	146	121	103	124	123	114	109	86	74	95	126	141	141	129	129	SE
9-Oct-05	152	227	179	160	185	186	178	228	216	216	230	225	197	201	172	166	78	43	105	123	139	138	136	196	187	S
10-Oct-05	224	193	227	222	230	244	204	195	185	183	194	193	195	192	199	195	193	189	186	190	189	192	190	194	193	SSW
11-Oct-05	205	233	238	241	236	262	310	303	319	324	330	331	337	336	333	341	344	323	324	312	309	148	157	170	291	WNW
12-Oct-05	136	175	195	210	187	177	144	151	143	211	200	194	199	195	198	195	193	195	193	197	201	204	211	209	197	SSW
13-Oct-05	213	218	223	231	251	241	233	247	249	243	252	251	248	267	272	288	280	280	328	344	326	333	260	233	253	WSW
14-Oct-05	227	226	221	232	223	205	201	207	216	207	224	224	204	200	190	186	143	108	115	119	93	95	37	36	190	S
15-Oct-05	44	49	52	49	2	351	5	356	354	350	16	38	75	199	201	212	220	216	239	252	222	247	245	223	249	WSW
16-Oct-05	235	225	231	241	231	224	256	265	236	238	360	6	7	10	360	5	20	31	68	95	116	136	158	159	291	WNW
17-Oct-05	239	236	241	240	227	233	250	279	244	262	290	349	350	4	21	28	40	73	53	48	50	46	195	228	317	NW
18-Oct-05	240	270	289	314	337	228	252	225	247	248	248	241	250	213	181	204	144	146	120	125	126	111	163	168	230	SW
19-Oct-05	9	14	109	99	99	78	360	19	334	35	128	197	213	210	219	212	208	215	211	202	214	214	241	268	217	SW
20-Oct-05	284	300	301	312	308	302	294	322	345	335	346	353	344	340	347	338	355	1	284	234	243	270	279	242	320	NW
21-Oct-05	206	171	213	228	229	232	235	227	224	217	237	238	228	226	222	235	255	11	34	55	110	134	119	117	218	SW
22-Oct-05	55	13	23	55	128	111	109	101	109	118	112	111	119	107	100	104	96	184	141	126	73	106	121	115	107	ESE
23-Oct-05	145	88	333	16	344	357	51	345	17	29	149	189	209	199	197	192	199	213	231	240	245	231	226	236	214	SW
24-Oct-05	234	233	236	232	235	237	240	247	271	273	232	225	226	243	264	271	283	238	190	188	122	142	140	151	235	SW
25-Oct-05	137	136	184	132	144	220	118	93	235	178	210	224	58	90	219	136	126	124	135	137	111	134	144	32	134	SE
26-Oct-05	179	185	225	256	235	234	245	238	240	237	227	234	224	258	274	274	280	297	283	240	247	250	222	206	237	WSW
27-Oct-05	209	233	234	234	249	216	223	224	225	232	225	228	234	242	233	235	237	248	224	225	228	228	240	234	230	SW
28-Oct-05	233	188	205	146	120	130	148	325	231	240	232	332	284	185	213	209	193	191	203	210	202	210	207	211	207	SSW
29-Oct-05	228	250	242	218	221	228	238	238	225	232	257	268	269	267	269	275	264	233	227	245	243	240	246	212	242	WSW
30-Oct-05	214	225	226	233	235	239	217	242	288	280	287	343	25	57	199	241	251	244	222	226	232	230	235	237	244	WSW
31-Oct-05	237	238	235	258	224	222	215	210	206	205	205	208	213	214	222	246	257	267	270	277	304	283	252	234	233	SW
Hourly Avg	216	218	223	222	223	223	234	235	227	228	227	226	224	222	224	224	222	214	201	201	179	194	201	207		

PAS - Cresent Heights Standard Deviation of Wind Direction Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2005 to November 1, 2005

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	**0%** calms	Operational Time: 744 hrs
Calibration Time:	0 hrs		AMD Operational Uptime: 100.0%

Percentile	99	95	75	50	25	5	1
	56.5	38.0	15.5	10.0	7.3	5.1	4.1

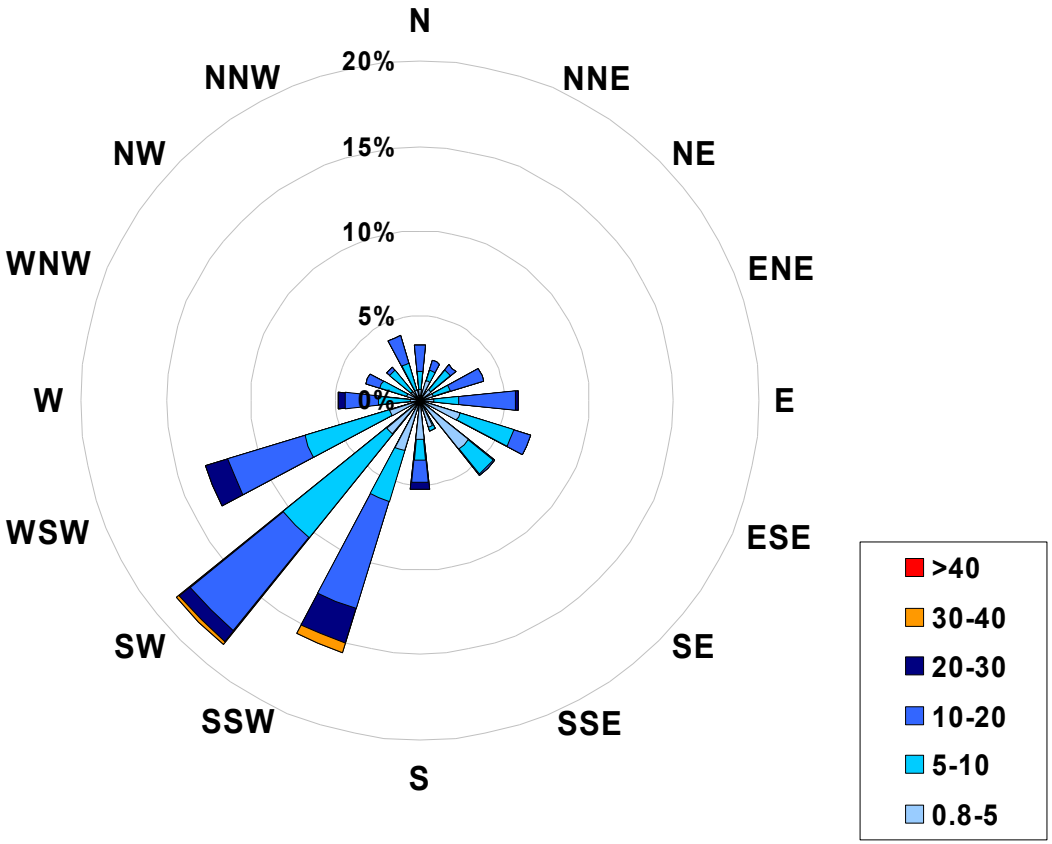
Status Flag Characters

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	Daily Maximum
1-Oct-05	6	6	8	6	7	10	35	26	21	16	7	7	9	10	7	8	8	14	8	7	7	13	10	41	40.8
2-Oct-05	9	10	9	11	7	10	8	16	16	16	19	19	18	31	24	32	21	8	3	4	7	13	9	14	32.2
3-Oct-05	9	7	7	7	8	8	5	5	6	6	7	9	9	10	11	9	8	9	7	7	7	7	6	6	10.8
4-Oct-05	7	6	6	6	7	9	6	14	14	11	13	12	16	14	15	15	8	8	6	16	7	7	7	8	16.0
5-Oct-05	8	9	13	43	33	8	14	7	10	11	17	27	17	15	13	12	11	9	13	11	15	23	27	11	42.8
6-Oct-05	14	9	11	6	6	6	29	14	8	8	10	10	9	9	8	10	8	10	15	9	27	31	7	8	30.5
7-Oct-05	6	6	4	5	5	5	9	14	5	7	6	7	9	10	9	7	6	6	6	8	5	16	44	52	52.3
8-Oct-05	45	60	6	7	8	74	59	53	19	29	38	33	28	29	53	27	8	6	9	10	7	9	7	9	73.8
9-Oct-05	15	12	43	29	22	12	11	17	12	11	16	18	42	36	66	75	30	33	18	8	6	6	12	19	74.9
10-Oct-05	21	24	22	56	13	47	28	42	9	9	7	8	8	10	8	7	6	6	7	7	5	6	6	7	56.2
11-Oct-05	5	15	7	4	4	10	10	12	18	11	16	16	12	12	11	10	7	14	7	34	17	49	15	15	49.2
12-Oct-05	10	9	9	7	12	11	11	30	14	23	9	10	11	8	8	8	7	6	6	5	5	5	6	5	30.2
13-Oct-05	4	5	5	16	19	5	7	8	7	7	11	8	10	7	8	10	10	8	16	7	12	6	14	7	18.7
14-Oct-05	12	6	6	7	7	51	12	10	12	14	12	11	8	18	18	20	12	5	11	9	6	10	12	5	50.5
15-Oct-05	6	8	7	10	33	12	13	14	10	9	28	20	45	55	9	9	6	4	16	9	12	11	12	17	54.5
16-Oct-05	12	6	10	6	11	6	11	18	6	11	23	8	10	13	11	10	9	8	10	21	26	10	20	18	26.4
17-Oct-05	9	13	22	18	6	8	11	11	10	12	10	16	13	14	7	8	9	11	18	7	8	11	50	12	50.5
18-Oct-05	10	8	8	9	14	37	7	8	14	11	12	14	26	38	33	29	19	13	6	9	6	18	18	62	62.0
19-Oct-05	44	35	8	13	20	37	12	43	20	31	40	32	10	11	8	6	7	5	16	4	5	4	7	7	44.2
20-Oct-05	6	9	11	13	9	10	11	9	25	9	8	10	9	11	9	7	8	9	17	10	11	11	19	24	24.6
21-Oct-05	30	10	9	5	7	6	8	12	8	12	10	17	11	11	20	40	22	13	5	10	9	20	5	17	40.0
22-Oct-05	20	12	6	9	12	9	13	10	19	9	15	13	13	13	11	8	9	26	16	10	12	14	12	22	25.6
23-Oct-05	12	20	18	13	32	19	42	24	28	20	41	11	11	13	12	9	9	10	12	6	6	8	7	10	42.2
24-Oct-05	6	5	5	7	4	5	6	11	11	15	12	6	7	13	8	8	7	11	37	30	37	11	17	16	37.5
25-Oct-05	8	14	16	13	24	24	7	14	43	46	29	17	53	43	23	20	8	8	10	14	6	12	36	37	53.1
26-Oct-05	24	23	38	24	8	16	18	10	15	10	8	9	15	12	13	18	12	8	25	23	15	18	9	12	38.1
27-Oct-05	8	9	20	18	18	10	6	6	9	9	9	8	9	9	6	6	9	12	11	13	8	6	8	7	20.1
28-Oct-05	9	37	18	14	7	6	7	0	24	25	57	33	60	43	12	10	7	8	7	12	6	5	4	4	60.3
29-Oct-05	9	9	18	6	7	6	6	6	10	8	12	8	11	10	9	7	8	11	16	8	8	7	7	15	17.8
30-Oct-05	15	5	4	7	4	5	8	30	13	18	10	15	11	33	27	14	11	13	9	5	14	6	8	4	33.2
31-Oct-05	3	4	6	27	25	10	5	4	4	6	5	5	6	5	4	8	5	5	5	5	10	7	17	11	27.0
Hourly Max	45	60	43	56	33	74	59	53	43	46	57	33	60	55	66	75	30	33	37	34	37	49	50	62	

1-hr Average Wind Rose (in km/hr) Located at the Cresent Heights Site for October 2005



Calms:	0%

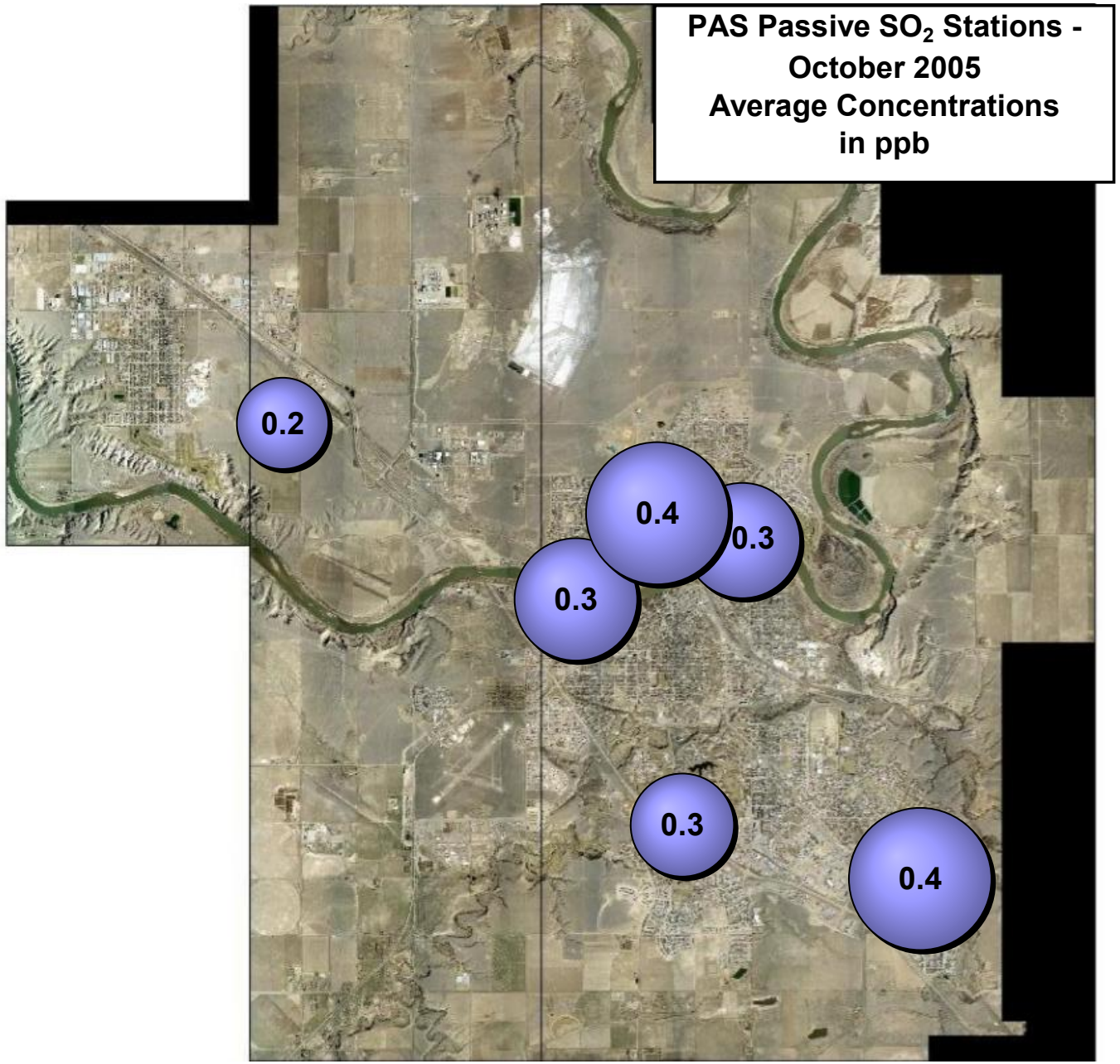
Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	182
5	to	10	263
10	to	20	251
20	to	30	39
30	to	40	5
	>	40	0
Total Non-Zero Values			740

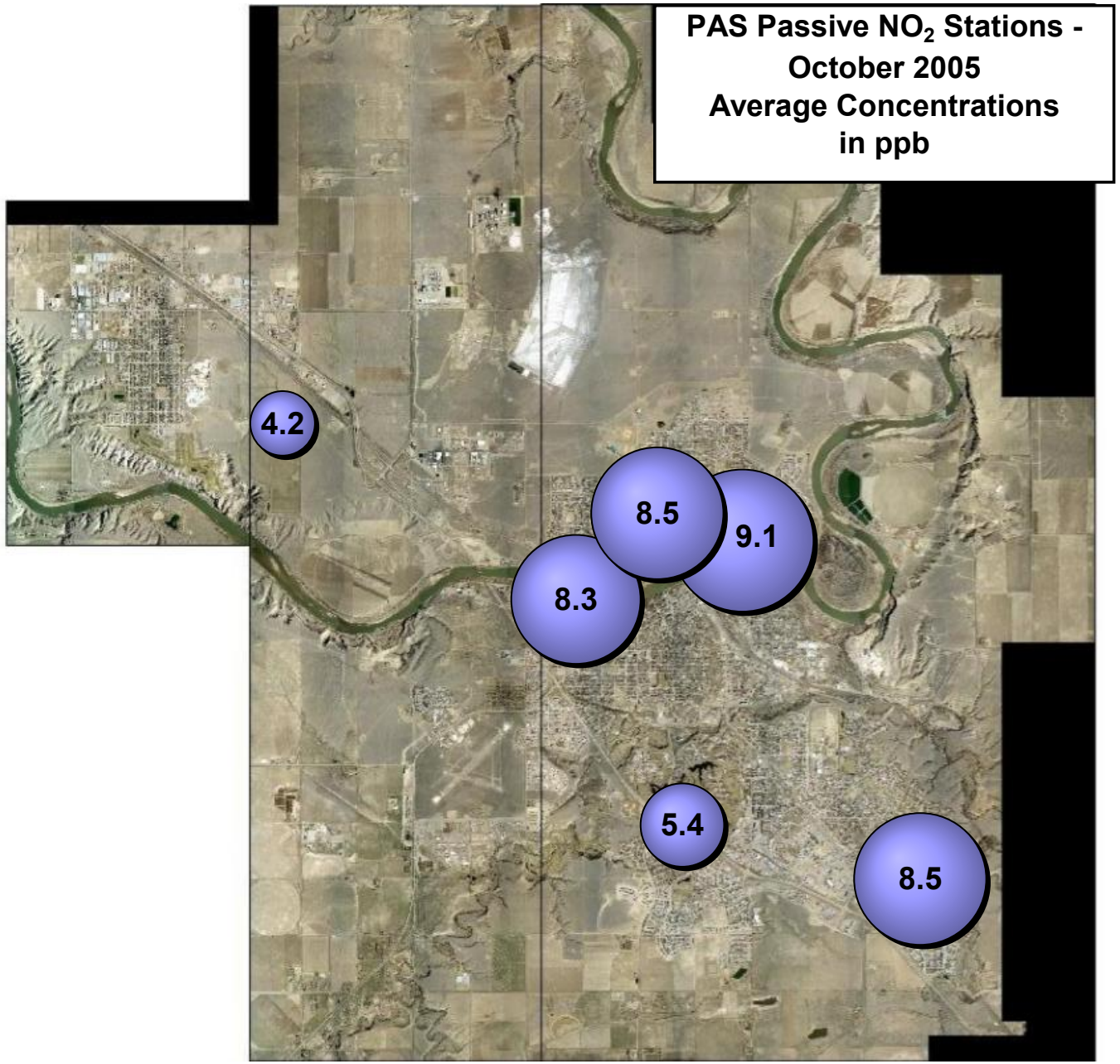
Passive Monitoring – October 2005

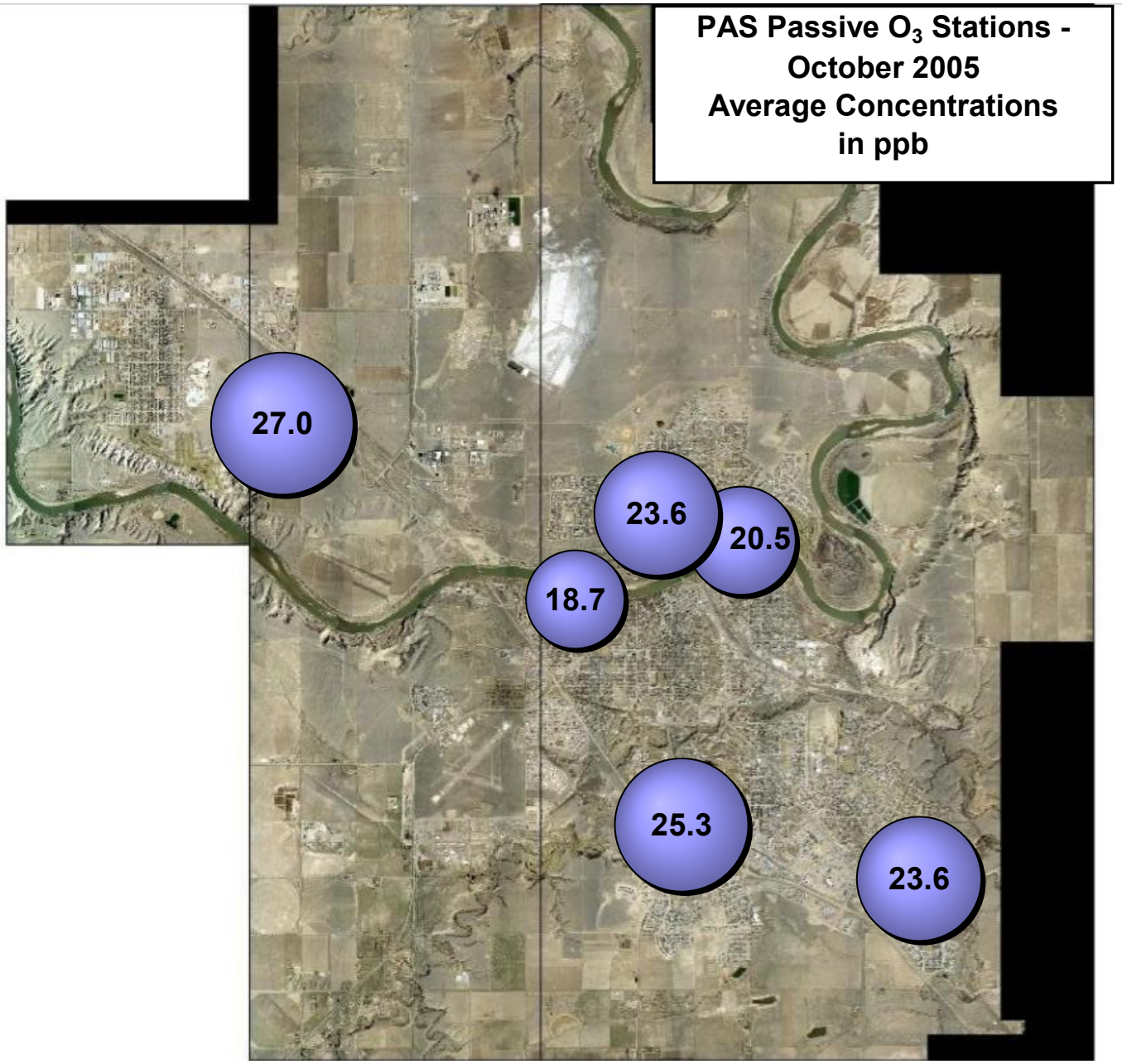
Ambient Air Compliance Network

Palliser Airshed Society - PAS Passive Stations for October 2005

Station Number	Station Name	SO_2 ppb	O_3 ppb	NO_2 ppb	Location Easting	Northing	Elevtion
Duplicates							
3a	Monitoring Station	**0.4**	**26.0**	**8.3**			
3b		**0.3**	**21.2**	**8.7**			
1	Hospital	**0.3**	**18.7**	**8.3**	521648	5542721	698
2	Ball Park	**0.3**	**20.5**	**9.1**	524019	5543686	660
3	Monitoring Station	**0.4**	**23.6**	**8.5**	522812	5544133	714
4	Redcliff	**0.2**	**27.0**	**4.2**	517448	5545608	725
5	Southridge	**0.3**	**25.3**	**5.4**	523172	5539016	721
6	Christian School Park	**0.4**	**23.6**	**8.5**	526577	5538133	709
Stats:							
	Mean	**0.3**	**23.1**	**7.3**			
	Standard Deviation	**0.1**	**3.0**	**2.0**			
	Minimum	**0.2**			**4**	**Redcliff**	
	Maximum	**0.4**			**3**	**Monitoring Station**	
	Minimum		**18.7**		**1**	**Hospital**	
	Maximum		**27.0**		**4**	**Redcliff**	
	Minimum			**4.2**	**4**	**Redcliff**	
	Maximum			**9.1**	**2**	**Ball Park**	


PAS Passive SO_2 Stations - October 2005 Average Concentrations in ppb
0.2
0.4
0.3
0.3
0.3
0.4


PAS Passive NO_2 Stations - October 2005 Average Concentrations in ppb
4.2
8.5
9.1
8.3
5.4
8.5


PAS Passive O_3 Stations -
October 2005
Average Concentrations
in ppb
27.0
23.6
20.5
18.7
25.3
23.6

October 2005 - Calibration Reports

PAS - Crescent Heights Station:

O_3, NO_x, NO, NO_2, THC, CO, $PM_{2.5}$, and Wind Speed / Wind Direction

Calibration Report

Parameter **O3**

Air Monitoring Network **Palliser Airshed**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	October 6, 2005	Previous Calibration	September 15, 2005
Station Number	1	Station Location	Crescent Heights

Reason: [Routine] [Install] [Removal] [Other:]

Start Time (MST)	12:25	End Time (MST)	14:50
Barometric Pressure	0.919 ATM	Station Temperature	19.0 Deg C
Calibrator	Environics 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	1.002006	Calculated slope	0.988921
Calculated intercept	-0.068684	Calculated intercept	-0.892390

Analyzer make: API Model 400E — Analyzer serial #: 331

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	-5.9	ppb	-5.9	ppb
coefficient	0.991		0.991	
Lamp measure	2692.2	mV	2670.8	mV
Lamp Reference	2695.0	mV	2672.7	mV
Pressure	26.0	inches Hg	25.9	inches Hg
Sample Flow	727	ccm	718	ccm
Lamp temp	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	0.9	N/A
4995	0.00	296.2	299.2	0.9900
4995	0.00	191.4	197.0	0.9717
4995	0.00	96.7	97.4	0.9930
4995	0.00	0.0	0.9	0.0000
4995	0.00	296.2	299.2	0.9900
			Average Correction Factor	0.9849

Calculated value of As Found Response: 298.8 ppm Percent Change of As Found: 0.9%

	before calibration		after calibration	
Auto zero	-1.6	ppb	-2.9	ppb
Auto span	356.4	ppb	341.3	ppb

Notes: No adjustments performed.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter **O3**

Air Monitoring Network **Palliser Airshed**

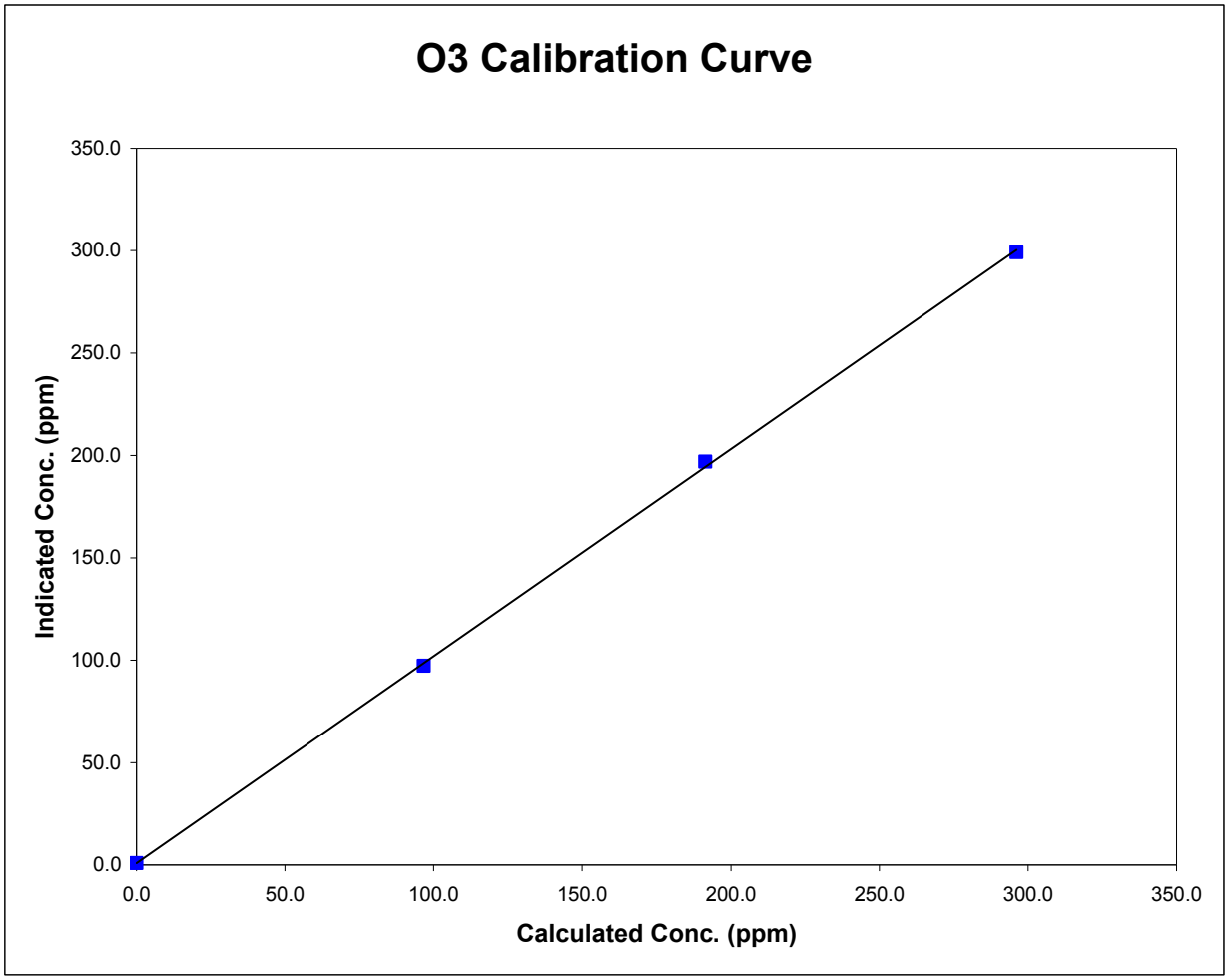
FOCUS AIR QUALITY MONITORING

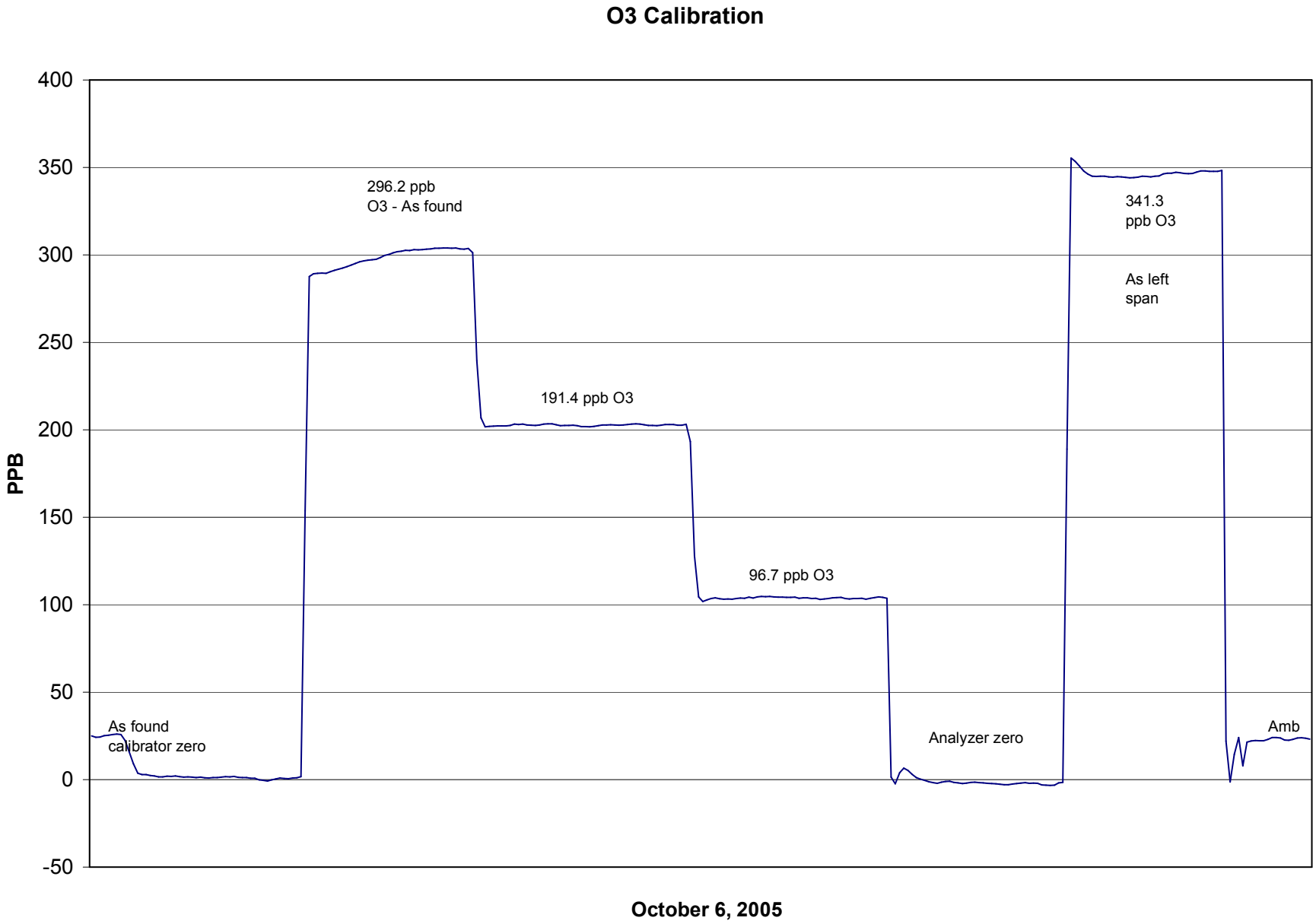
Station Information

Calibration Date	October 6, 2005	Previous Calibration	September 15, 2005
Station Number	1	Station Location	Crescent Heights
Start Time (MST)	12:25	End Time (MST)	14:50
Analyzer make/model	API Model 400E	Analyzer serial #	331

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
296.2	299.2	0.9900		
191.4	197.0	0.9717	Correlation Coefficient	0.999807
96.7	97.4	0.9930		
0.0	0.9	N/A	Slope	0.988921
			Intercept	-0.892390




O3 Calibration
400
350
300
250
200
150
100
50
0
-50
PPB
296.2 ppb
O3 - As found
191.4 ppb O3
96.7 ppb O3
341.3
ppb O3
As left
span
As found
calibrator zero
Analyzer zero
Amb
October 6, 2005

Calibration Report

Parameter **$NOx-NO-NO_2$**

Air Monitoring Network **Palliser Airshed**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	October 6, 2005	Previous Calibration	September 15, 2005
Station Number	1	Station Location	Crescent Heights

Reason: Routine | Installation | Removal | Other:

Start Time (MST)	7:15		End Time (MST)	11:20	
Barometric Pressure	0.919	ATM	Station Temperature	20.0	Deg C
Calibrator	Environics 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	0.998148	0.990688	0.992727	0.993998
	-0.340971	-0.525135	0.624742	1.067300
After	Data Slope	0.994541	0.991443	0.989775
	Data Offset	-0.363878	2.228556	2.373993
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	-1.2	mV	-1.2	mV
NOx background	1.1	mV	1.1	mV
NO coefficient	1.258		1.278	
NOx coefficient	1.257		1.240	
Chamber Temp	50.0	Deg C	50.0	Deg C
Cooler Temp	7.0	Deg C	7.0	Deg C
Azero	40.4		34.5	
Perm Temp	40.1	Deg C	40.1	Deg C
Pressure	4.3	inches Hg	4.3	inches Hg
Sample Flow	446.0	ccm	450.0	ccm

Notes: Analyzer was span adjusted.

Calibration Report

Parameter **NOx-NO-NO_2**

Air Monitoring Network **Palliser Airshed**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date: October 6, 2005 Station Location: Crescent Heights

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor
zero	4993	0.00	0.0	0.0	0.0	1.2	0.5	0.4	N/A	N/A
1	4993	39.97	395.5	395.5	0.0	398.4	398.6	0.0	0.9928	0.9922
2	4993	19.97	198.4	198.4	0.0	195.9	196.5	-0.9	1.0129	1.0094
3	4993	9.97	99.2	99.2	0.0	94.7	95.0	-0.7	1.0481	1.0443
AFZ	4993	0.00	0.0	0.0	0.0	1.2	0.5	0.4	0.0000	0.0000
AFS	4993	39.97	395.5	395.5	0.0	411.0	393.2	18.0	0.9622	1.0058
							Average Correction Factor		1.0179	1.0153

As Found Concentrations NO_X= 410.5 NO= 393.8 As Found Percent Change NO_X= 3.8% NO= -0.4%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	399.5	398.6	0.8	400.7	400.4	0.4	N/A	N/A	N/A	N/A
350	387.5	91.2	296.2	388.6	89.8	298.2	0.9972	1.0162	0.9933	100.7%
200	390.1	198.6	191.4	391.2	198.3	192.9	0.9971	1.0017	0.9923	100.8%
100	396.5	299.8	96.7	397.6	300.5	97.5	0.9970	0.9977	0.9922	100.8%
					Average Correction Factor		0.9971	1.0052	0.9926	100.7%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	1.9	-0.2	2.1	ppb	3.7	-0.2	3.5	ppb
Auto span	345.1	336.9	7.6	ppb	365.2	357.7	8.3	ppb

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter **NO_2**

Air Monitoring Network **Palliser Airshed**

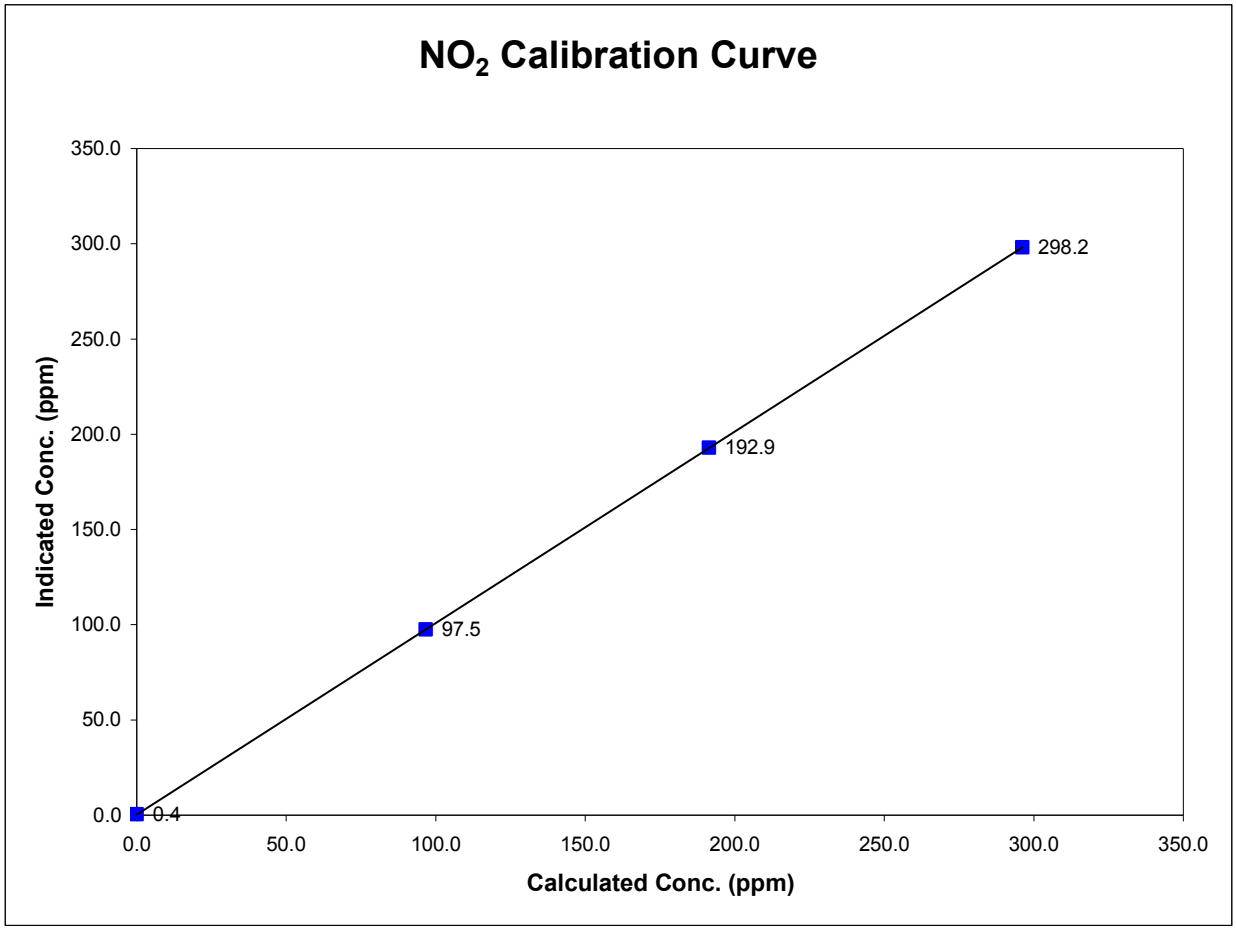
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	October 6, 2005	Previous Calibration	September 15, 2005
Station Number	1	Station Location	Crescent Heights
Start Time (MST)	7:15	End Time (MST)	11:20
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	0.4	0.0000		
296.2	298.2	0.9933	Correlation Coefficient	0.999999
191.4	192.9	0.9923		
96.7	97.5	0.9922	Slope	0.994541
			Intercept	-0.363878



Calibration Summary

Parameter **NO_x**

Air Monitoring Network **Palliser Airshed**

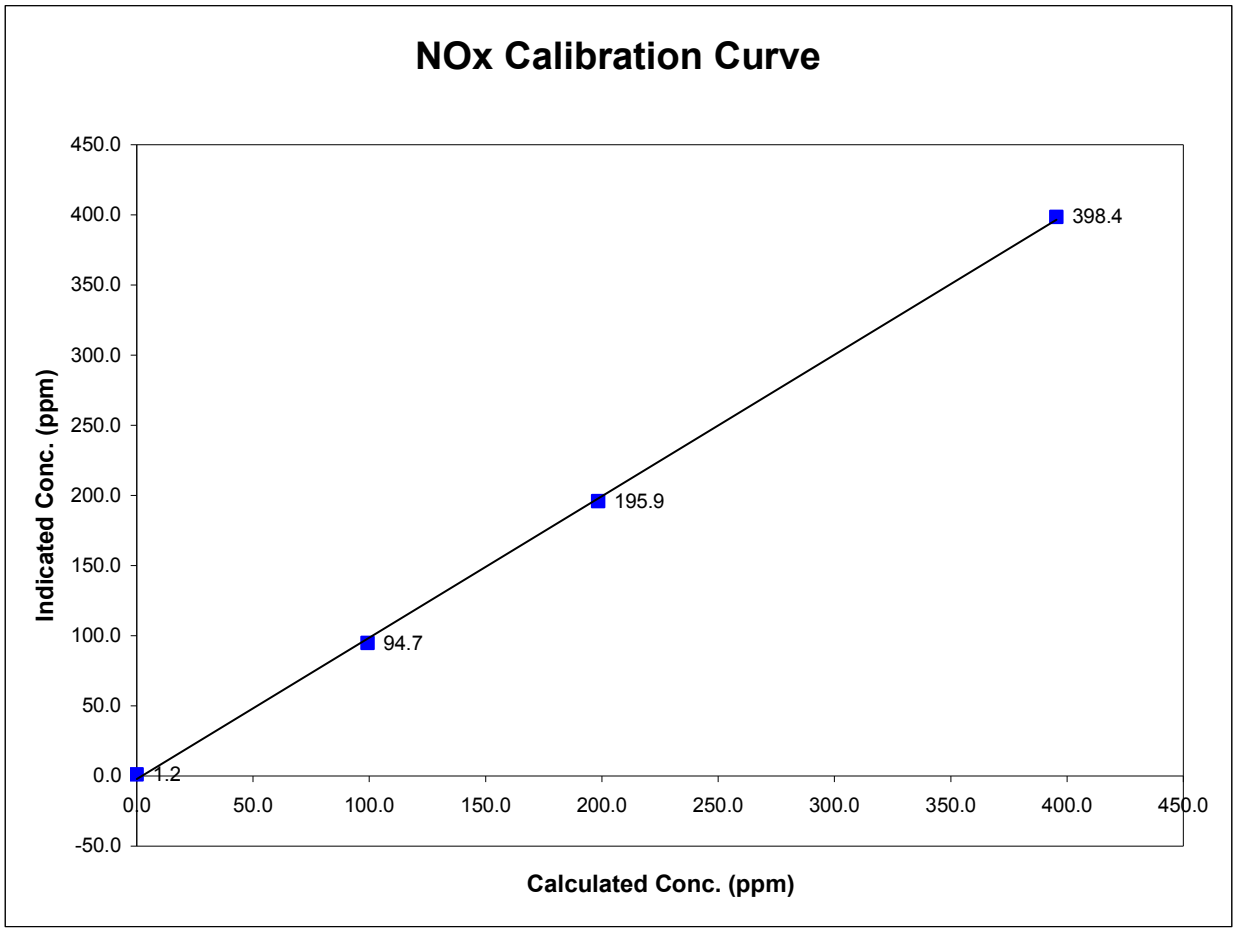
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	October 6, 2005	Previous Calibration	September 15, 2005
Station Number	1	Station Location	Crescent Heights
Start Time (MST)	7:15	End Time (MST)	11:20
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	1.2	0.0000		
395.5	398.4	0.9928	Correlation Coefficient	0.999670
198.4	195.9	1.0129		
99.2	94.7	1.0481	Slope	0.991443
			Intercept	2.228556



Calibration Summary

Parameter **NO**

Air Monitoring Network **Palliser Airshed**

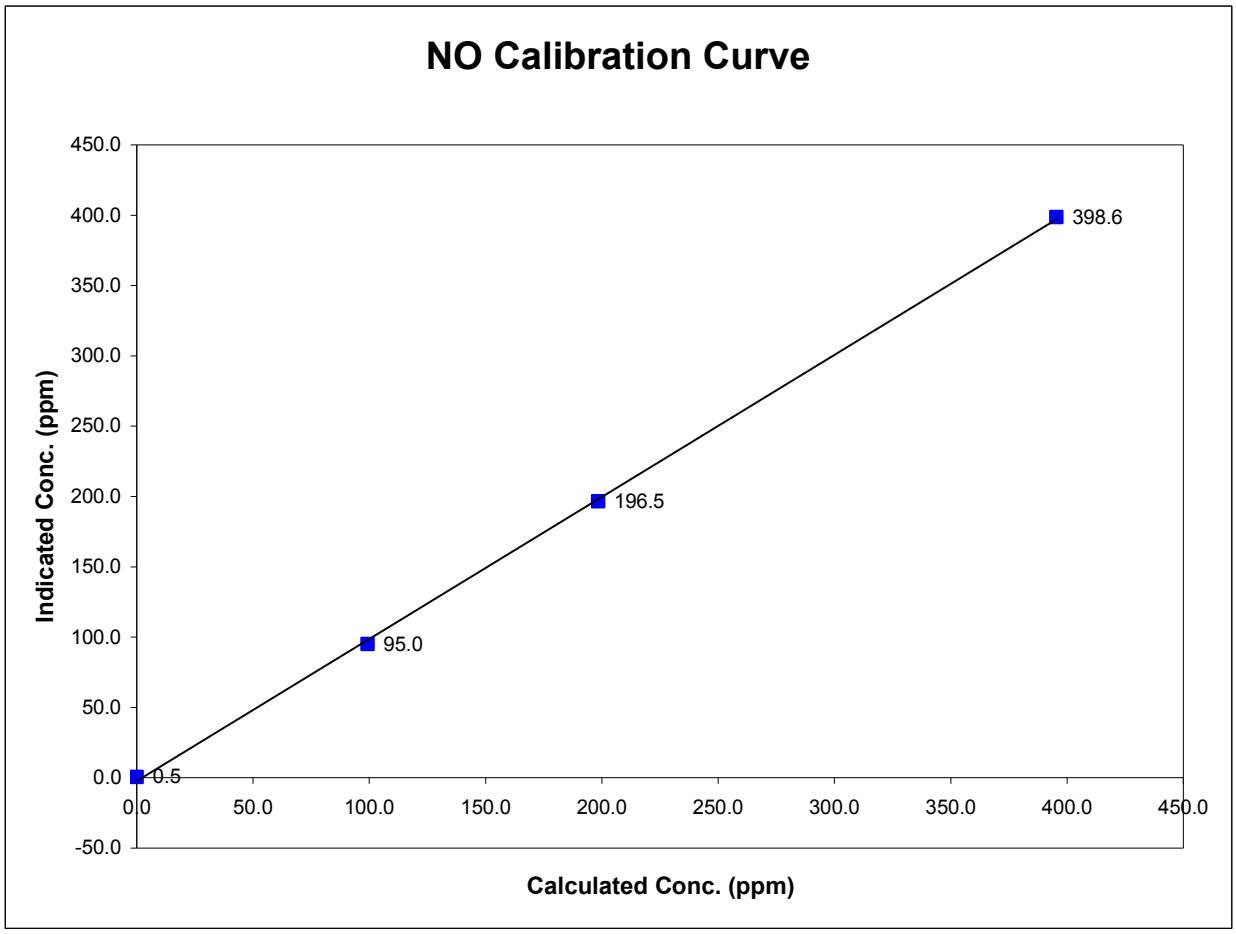
FOCUS AIR QUALITY MONITORING

Station Information

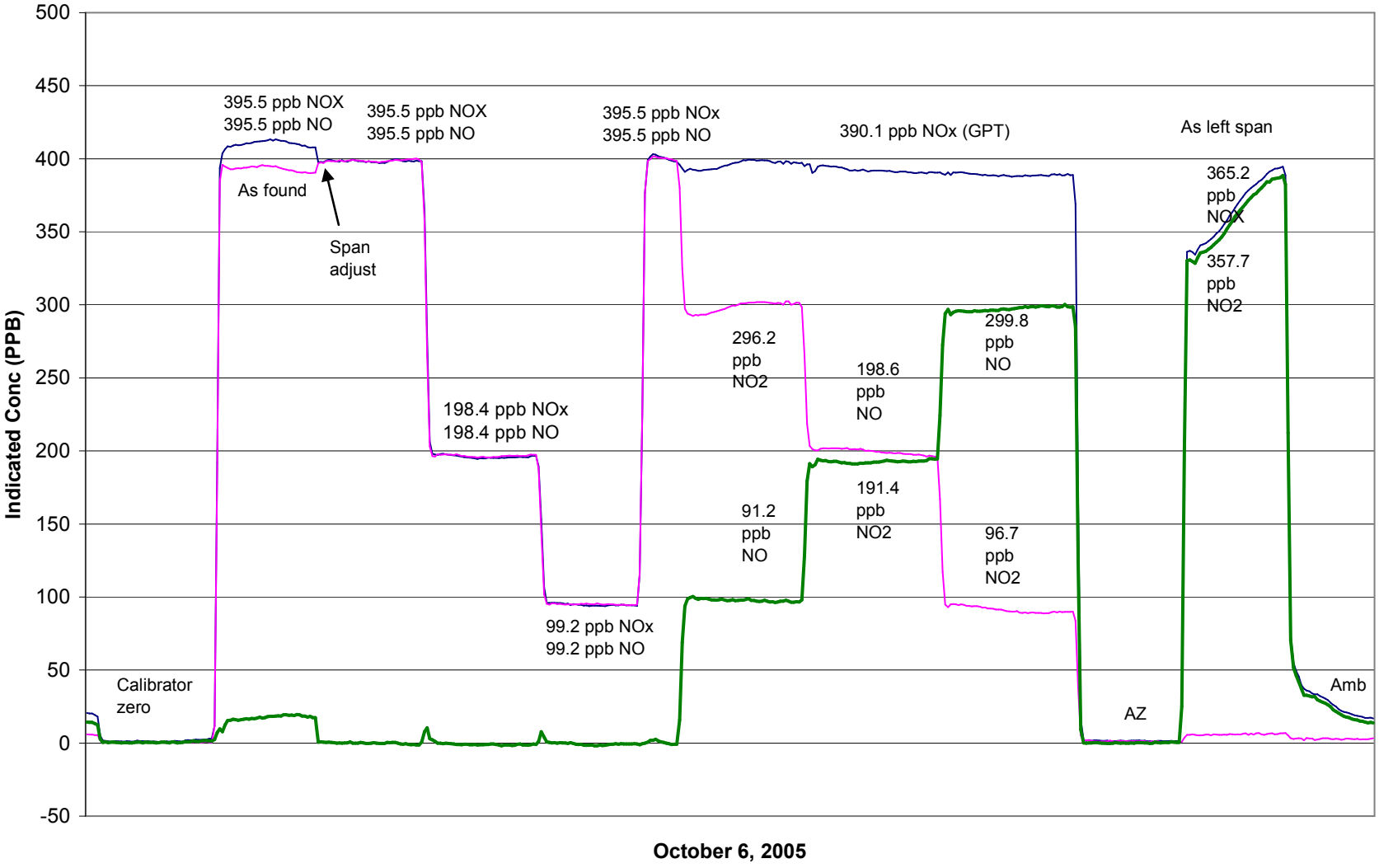
Calibration Date	October 6, 2005	Previous Calibration	September 15, 2005
Station Number	1	Station Location	Crescent Heights
Start Time (MST)	7:15	End Time (MST)	11:20
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.5	N/A		
395.5	398.6	0.9922	Correlation Coefficient	0.999761
198.4	196.5	1.0094		
99.2	95.0	1.0443	Slope	0.989775
			Intercept	2.373993



NOx Calibration



Calibration Report

Parameter **THC**

Air Monitoring Network **Palliser Airshed**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	October 6, 2005	Previous Calibration	September 14, 2005
Station Number	1	Station Location	Crescent Heights

Reason: [Routine] [Install] [Removal] [Other:]

Start Time (MST)	10:25	End Time (MST)	13:20
Barometric Pressure	0.919 ATM	Station Temperature	20.0 Deg C
Calibrator	Environics 6100	Serial Number	3016
Cal Gas Concentration	700 ppm CH_4 / 301 ppm C_3H_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
Calculated slope	0.996874	Calculated slope	0.999290
Calculated intercept	0.098365	Calculated intercept	0.124390

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	10678	raw	10556	raw
THC zero counts	1639	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	0.04	N/A
2994	39.98	20.13	20.14	0.9998
2994	19.98	10.13	9.82	1.0313
2994	9.70	4.93	4.72	1.0454
zero	0.00	0.00	0.04	As Found Zero
2994	39.98	20.13	19.82	As Found Span
			Average Correction Factor	1.0255

Calculated value of As Found Response: 19.813 ppm Percent Change of As Found: 1.6%

	before calibration		after calibration	
Auto zero	0.08	ppm	0.12	ppm
Auto span	23.68	ppm	24.08	ppm

Notes: A small span adjustment was performed.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter **THC**

Air Monitoring Network **Palliser Airshed**

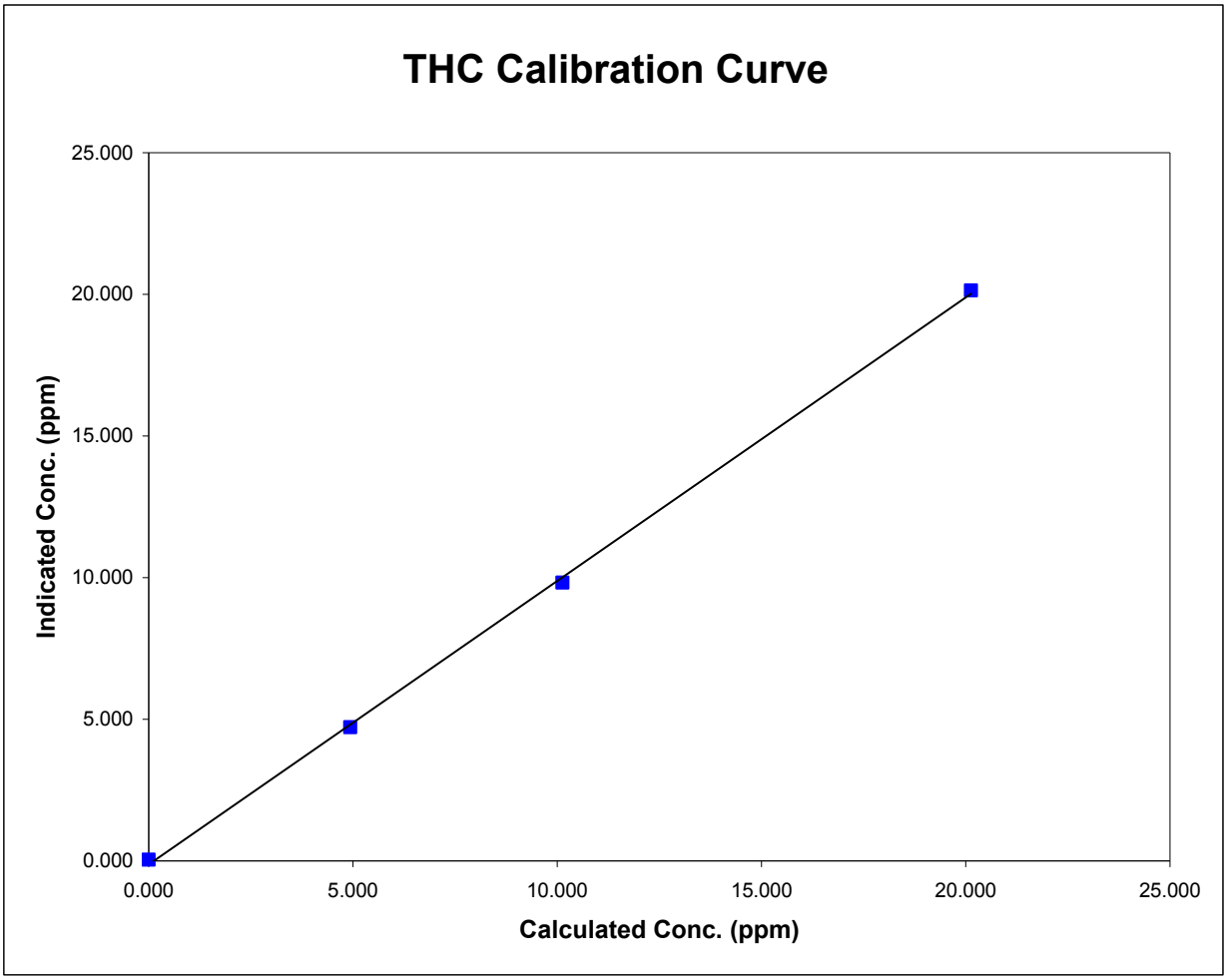
FOCUS AIR QUALITY MONITORING

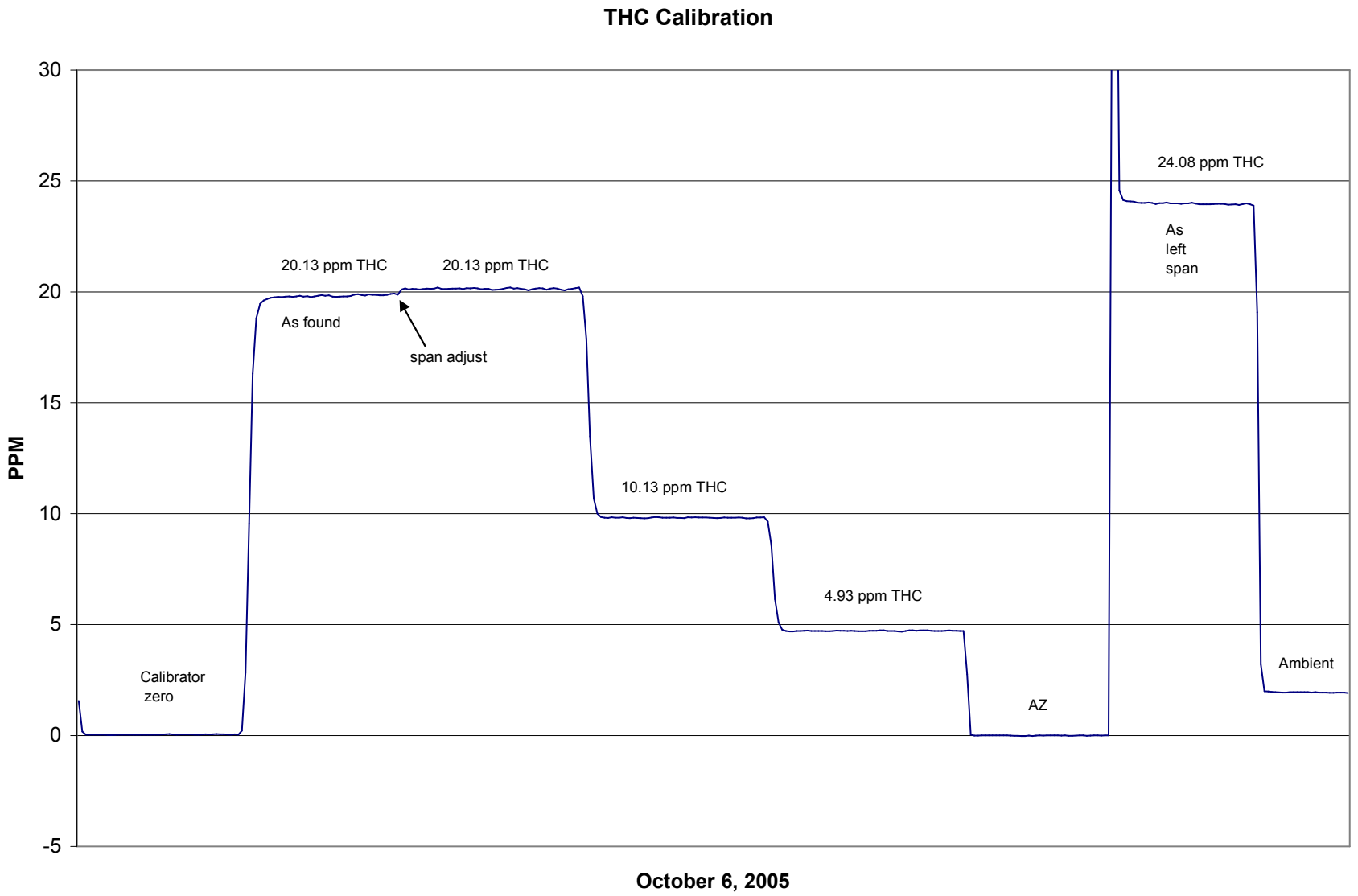
Station Information

Calibration Date	October 6, 2005	Previous Calibration	September 14, 2005
Station Number	1	Station Location	Crescent Heights
Start Time (MST)	10:25	End Time (MST)	13:20
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	0.045	N/A		
20.132	20.136	0.9998	Correlation Coefficient	0.999611
10.128	9.820	1.0313		
4.934	4.719	1.0454	Slope	0.999290
			Intercept	0.124390




THC Calibration
30
25
20
15
10
5
0
-5
PPM
20.13 ppm THC
20.13 ppm THC
As found
span adjust
10.13 ppm THC
4.93 ppm THC
AZ
24.08 ppm THC
As
left
span
Calibrator
zero
Ambient
October 6, 2005

Calibration Report

Parameter **CO**

Air Monitoring Network **Palliser**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	October 5, 2005	Previous Calibration	September 14, 2005
Station Number	1	Station Location	Crescent Heights

Reason: [Routine] [Install] [Removal] [Other:]

Start Time (MST)	17:08	End Time (MST)	20:30
Barometric Pressure	0.929 ATM	Station Temperature	20.0 Deg C
Calibrator	Environics 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
	Before		After
Calculated slope	0.997007	Calculated slope	0.997785
Calculated intercept	0.095434	Calculated intercept	0.137927

Analyzer make	TEI Model 48CLT	Analyzer serial # 436609887

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO coefficient	1.045		1.052	
CO bkg setting	5.945		6.458	
Lamp ratio	1.1545		1.1553	
Lamp intensity	200200	Hz	199490	Hz
Sample Flow	1.007	LPM	0.997	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)
4990	0.00	0.00	-0.01	N/A
4990	49.83	29.64	29.62	1.0006
4990	19.53	11.69	11.47	1.0186
4990	9.50	5.70	5.49	1.0377
4990	0.00	0.00	0.39	0.0000
4990	49.83	29.64	30.33	0.9773
			Average Correction Factor	1.0190

Calculated value of As Found Response: 29.946 ppm Percent Change of As Found: -1.0%

	before calibration		after calibration	
Auto zero	0.29	ppm	0.23	ppm
Auto span	19.73	ppm	19.73	ppm

Notes: Performed zero and span adjustments.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter **CO**

Air Monitoring Network **Palliser**

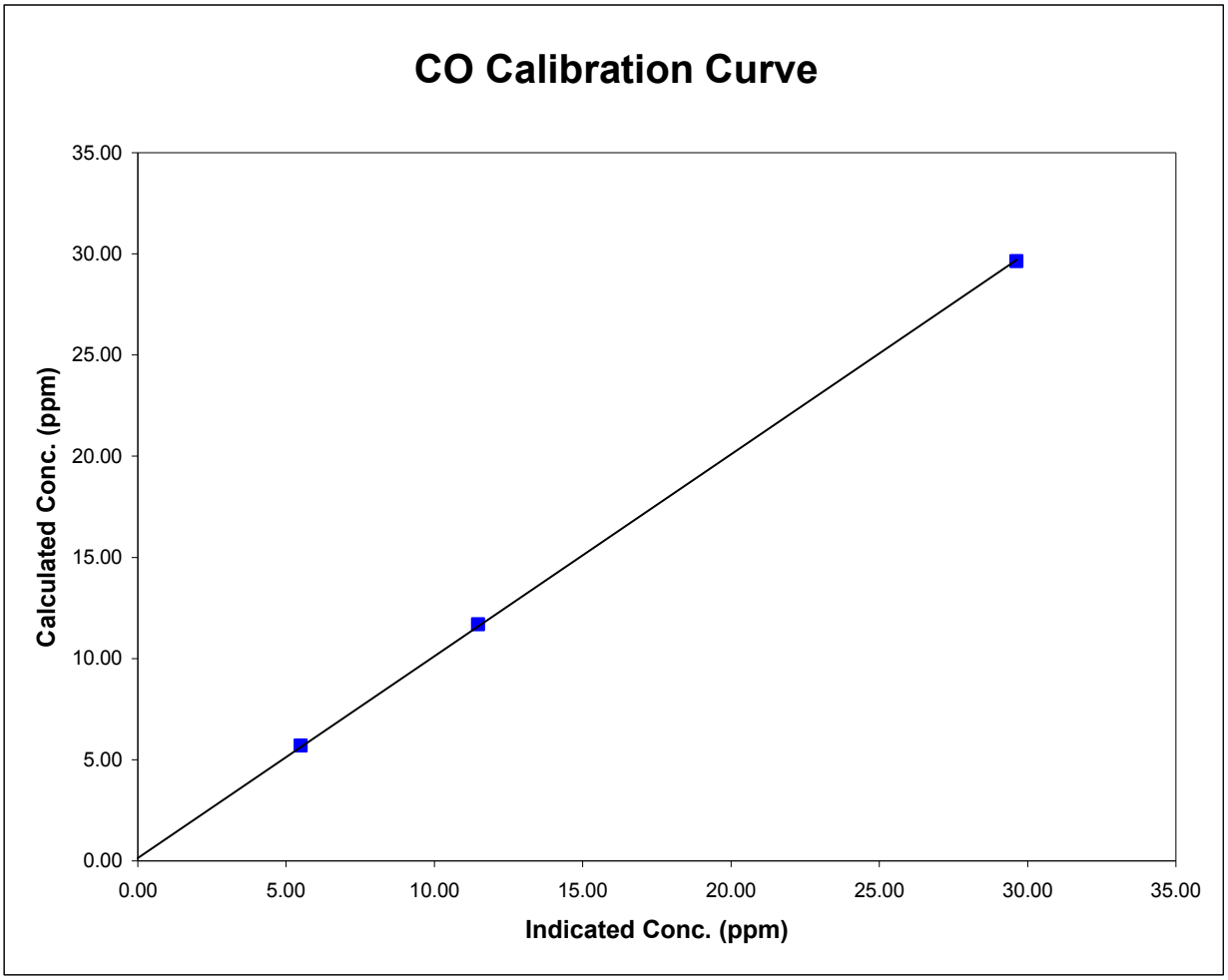
FOCUS AIR QUALITY MONITORING

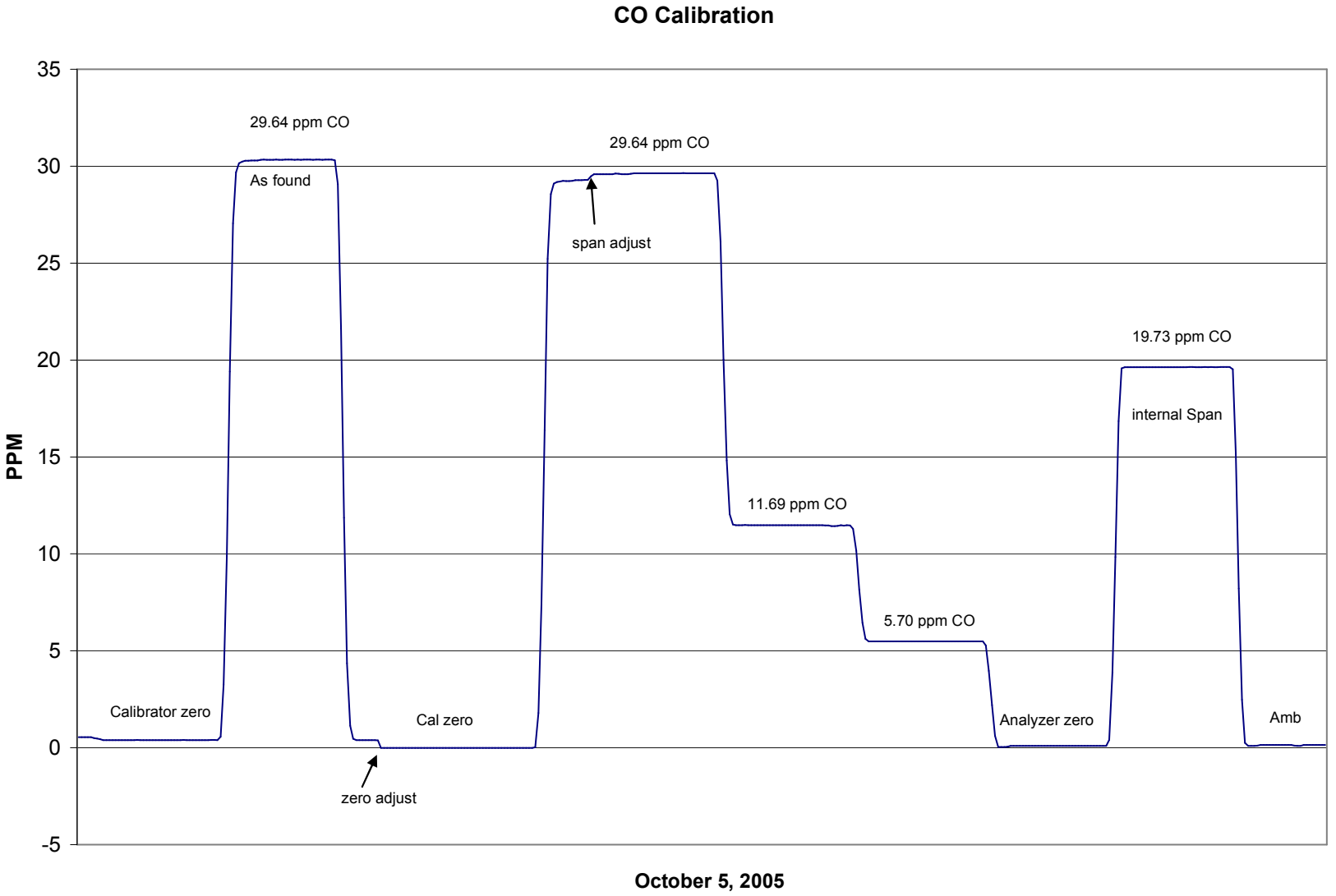
Station Information

Calibration Date	October 5, 2005	Previous Calibration	September 14, 2005
Station Number	1	Station Location	Crescent Heights
Start Time (MST)	17:08	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	-0.01	N/A		
29.64	29.62	1.0006	Correlation Coefficient	0.999927
11.69	11.47	1.0186		
5.70	5.49	1.0377	Slope	0.997785
			Intercept	0.137927




CO Calibration
35
30
25
20
15
10
5
0
-5
PPM
29.64 ppm CO
As found
29.64 ppm CO
span adjust
19.73 ppm CO
internal Span
11.69 ppm CO
5.70 ppm CO
Calibrator zero
Cal zero
Analyzer zero
Amb
zero adjust
October 5, 2005