Palliser Airshed Society

Ambient Air Monitoring Network Summary

April 2006

Prepared By:

FOCUS
AIR QUALITY MONITORING

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May 4, 2006

Environmental Service Response Centre
Alberta Environment
#111 Twin Atria Building
4999-98 Ave
Edmonton Alberta T6B 2X3

Attention: Director of Monitoring and Evaluation

RE: Palliser Airshed Society (PAS) Ambient Air Monitoring Report – April 2006

Enclosed is the PAS Ambient Monitoring Report for the month of **April 2006**.

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 April. There were no significant events leading to emergency response for the month of April.

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

- Monthly average concentrations of NO_2 was 6.3 ppb
- Monthly average concentrations for O_3 was 34.8 ppb
- Monthly average concentrations for CO was 0.2 ppm
- Monthly average concentrations for THC was 2.0 ppm
- Monthly average concentrations for $PM_{2.5}$ was 3.2 µg/m³

Passive Monitoring – Six Sites throughout the PAS zone:
The following are the ranges for March 2006 recorded by the six passive stations located throughout the PAS zone.

- Monthly average concentrations for SO_2 passives were all <0.5 ppb
- Monthly average concentrations for NO_2 passives ranged from 2.8 ppb to 6.3 ppb
- Monthly average concentrations for O_3 passives ranged from 34.4 ppb to 36.1 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 Supervisor

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

Continuous Monitoring

Ambient Air Monitoring Network

Crescent Heights Station

General Station Issues

There were no general station issues observed for the month of April. Calibrations were performed on April 12th and 13th on all analyzers including the meteorological sensors.

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	$\mu g/m^3$	There were four (4) hours of data removed due to excessive instrument drift. No other operational issues were observed
Wind Speed	Met One	010C	kph	There were five (5) hours of calm noted. No other operational issues were 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.

April 2006 Monthly Overall Summary Report

Ambient Air Quality Data

Apr-2006	Palliser Airshed Society						Maximum Recorded Values						
							1-hr				24-hr / 8-hr		
Pollutant (units)	**Objectives** 1-hr	24-hr	**Station**	**Monthly Average**	**Exceedence** 1-hr	24-hr	Conc	Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	**Operational Time (%)**
NO (**ppb**)			Crescent Heights	2.2	-	-	49.1	Apr-12 07:00	2.5	SSW	6.4	Apr-04	100.0%
NO_2 (**ppb**)	212	106	Crescent Heights	6.3	0	0	37.4	Apr-18 22:00	4.5	SE	13.2	Apr-18	100.0%
NO_X (**ppb**)			Crescent Heights	8.4	-	-	79.0	Apr-12 07:00	2.5	SSW	18.6	Apr-18	100.0%
O_3 (**ppb**)	82		Crescent Heights	34.8	0	-	65.4	Apr-28 15:00	8.5	S	45.7	Apr-27	100.0%
O_3 (**ppb**) - **8-hr**	65		Crescent Heights		0						62.2	Apr-28	
CO (**ppm**)	13		Crescent Heights	0.20	0	-	0.8	Apr-04 06:00	2.1	NNW	0.3	Apr-04	100.0%
CO (**ppm**) - **8-hr**	5		Crescent Heights		0						0.4	Apr-04	
THC (**ppm**)			Crescent Heights	2.03	-	-	2.9	Apr-04 05:00	0.8	Calm	2.3	Apr-04	100.0%
$PM_{2.5}$ (**µg/m^3**)		30 [a]	Crescent Heights	3.2		0	15.9	Apr-21 19:00	11.7	SW	7.4	Apr-21	99.4%
RH (**%**)			Crescent Heights	51.6	-	-	-	-	-	-	-	-	100.0%
SR (**W/m^2**)			Crescent Heights	202.7	-	-	-	-	-	-	-	-	100.0%
Temp (**°C**)			Crescent Heights	10.3	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)			Crescent Heights	11.9	-	-	40.8	Apr-14 12:00	40.8	SW	26.1	14-Apr	100.0%
WSPD s (km/hr)			Crescent Heights	12.3	-	-	41.0	Apr-14 12:00	41.0	SW	26.8	14-Apr	100.0%
WDIR (Deg)			Crescent Heights	SW	-	-	-	-	-	-	-	-	100.0%

Note: [a] the draft 24-hr Alberta Ambient Air Quality Objectives

* Wind Direction is the predominate direction for the Month

PAS - Crescent Heights

Monthly Summary Tables, Graphs, and Roses

PAS - Crescent Heights - AQI Monthly Summary

Station: Cresent Heights
Station Owner: PAS

Air Quality Index (AQI)

Monitoring Dates: April 1, 2006 to May 1, 2006

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:	625
Number of 1-hr Fair Readings:	50
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-Apr-06	N	8	5	6	8	10	8	9	12	13	15	17	20	20	21	21	22	22	17	16	16	15	17	N
2-Apr-06	18	18	18	19	19	21	20	20	21	20	21	22	24	25	25	24	24	23	21	19	17	17	N	18
3-Apr-06	18	17	15	15	16	16	13	12	16	19	22	24	24	24	24	24	23	22	20	17	7	N	10	13
4-Apr-06	9	8	5	5	4	6	6	5	6	7	10	12	19	21	19	17	17	20	17	16	N	15	16	12
5-Apr-06	11	10	9	6	5	6	5	3	4	6	7	7	8	11	11	13	12	10	10	N	15	16	14	14
6-Apr-06	14	14	15	15	15	14	15	13	14	15	17	21	24	24	24	24	23	23	N	20	20	19	18	17
7-Apr-06	13	13	11	13	19	20	17	17	17	18	18	15	19	19	19	18	18	N	15	13	14	16	18	16
8-Apr-06	9	8	7	3	3	4	3	4	6	7	10	12	16	19	21	22	N	19	17	15	12	10	11	13
9-Apr-06	9	9	13	15	15	17	18	18	18	18	20	20	19	21	20	N	21	20	18	19	17	12	15	13
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11-Apr-06	14	12	11	14	14	18	21	18	20	22	23	23	23	N	22	22	23	23	21	15	7	7	6	4
12-Apr-06	6	3	4	5	5	7	6	7	12	21	22	21	N	N	23	22	21	1	2	1	1	1	19	20
13-Apr-06	19	18	N	18	18	17	14	18	N	N	N	N	N	N	N	N	N	N	26	19	18	18	21	21
14-Apr-06	20	21	N	20	20	19	18	18	19	19	20	22	23	23	23	22	22	21	20	18	17	18	19	19
15-Apr-06	19	N	18	19	16	13	13	14	17	20	21	23	22	24	23	24	23	23	21	22	23	21	18	17
16-Apr-06	N	14	16	16	15	15	17	19	23	23	24	24	24	24	24	24	23	24	22	21	16	15	14	N
17-Apr-06	15	16	17	18	18	14	13	16	17	19	21	24	24	24	24	24	24	23	23	19	16	8	N	7
18-Apr-06	5	5	5	7	7	5	7	7	9	12	15	19	22	24	24	25	25	25	24	16	14	N	9	6
19-Apr-06	6	5	10	11	10	6	8	9	15	19	21	24	27	29	30	30	30	29	29	25	N	15	14	13
20-Apr-06	12	12	10	7	7	5	5	9	12	22	24	25	26	27	27	27	28	27	23	N	11	21	23	25
21-Apr-06	24	20	21	22	24	20	17	17	20	27	25	25	25	25	26	26	25	24	N	19	20	22	18	17
22-Apr-06	14	14	13	13	16	15	15	15	16	15	14	14	13	13	13	13	14	N	13	16	15	17	18	19
23-Apr-06	17	16	15	16	15	13	13	15	17	18	21	22	23	24	23	24	N	24	23	20	17	13	7	6
24-Apr-06	4	5	7	5	4	5	6	6	12	N	24	24	25	25	26	N	26	26	23	20	21	22	21	20
25-Apr-06	21	19	11	10	16	14	12	18	22	22	24	24	26	27	N	29	24	23	22	17	12	13	18	19
26-Apr-06	16	17	15	14	12	12	15	17	18	20	25	29	30	N	34	36	37	37	30	22	20	24	24	25
27-Apr-06	24	24	18	22	22	21	21	24	27	25	24	23	N	24	30	33	30	29	26	19	18	18	19	14
28-Apr-06	8	7	10	10	11	9	7	11	15	19	26	N	35	37	37	38	37	35	28	23	22	17	18	21
29-Apr-06	26	29	28	28	27	23	20	20	21	21	N	22	23	24	24	24	25	23	20	17	10	11	25	26
30-Apr-06	25	24	25	24	24	12	17	18	19	N	18	16	14	16	16	17	17	17	17	17	18	18	18	19

PAS - Crescent Heights - Nitrogen Dioxide Monthly Summary

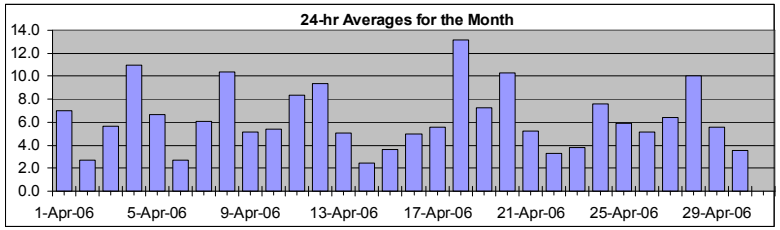
Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO_2)

Monitoring Dates: April 1, 2006 to May 1, 2006

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:	37.4	ppb	18-Apr	22:00 23:00
Maximum 24-hr Average:	13.2	ppb	18-Apr	

AIC Time:	32 hrs	Operational Time:	684 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	28.2	18.7	7.9	4.1	2.5	1.4	0.6	6.3 ppb	4.1 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

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-Apr-06	A	36	20	24	9	6	5	5	3	4	4	3	3	3	4	4	5	4	3	3	3	2	2	A	7.0	35.6
2-Apr-06	4	3	2	2	2	2	1	1	2	4	4	3	1	1	1	2	2	2	5	5	5	3	A	4	2.7	4.9
3-Apr-06	2	2	3	3	3	5	9	11	5	3	2	1	1	1	2	3	4	5	8	12	26	A	13	6	5.6	26.3
4-Apr-06	11	12	20	14	18	25	23	16	13	15	11	7	4	2	6	9	10	5	8	9	A	6	5	4	11.0	24.9
5-Apr-06	3	3	3	7	6	7	8	13	14	16	16	7	7	5	5	3	4	5	6	A	5	3	3	3	6.6	15.8
6-Apr-06	3	3	3	3	3	4	3	3	4	3	3	3	3	2	2	2	2	1	A	4	2	2	1	2	2.7	4.1
7-Apr-06	8	6	10	9	4	4	7	7	7	4	5	10	4	3	3	3	4	A	10	10	9	5	3	5	6.1	10.4
8-Apr-06	9	7	8	13	13	14	10	11	12	11	9	7	5	3	3	4	A	11	11	15	19	25	11	6	10.4	25.0
9-Apr-06	10	9	4	3	2	2	1	2	4	5	3	3	5	2	5	A	7	7	9	4	6	15	5	5	5.2	15.3
10-Apr-06	3	3	3	3	4	7	10	8	4	2	3	2	3	3	A	8	5	3	7	8	16	8	7	4	5.4	15.9
11-Apr-06	4	5	6	4	6	5	4	10	7	2	2	3	3	A	6	5	3	2	3	11	28	27	26	19	8.3	28.3
12-Apr-06	10	14	17	20	11	11	14	30	14	2	2	C	C	C	C	A	6	6	7	4	3	3	2	2	9.4	30.2
13-Apr-06	2	2	A	5	4	4	6	8	4	5	5	4	5	8	8	4	4	4	3	13	8	7	2	2	5.0	12.9
14-Apr-06	2	2	A	4	2	2	3	3	2	1	1	1	1	1	1	2	3	2	4	6	4	5	3	2	2.5	6.1
15-Apr-06	1	A	5	3	4	9	7	3	2	3	2	2	4	1	1	1	2	4	7	4	3	4	5	4	3.6	8.7
16-Apr-06	A	11	4	5	3	3	2	2	3	3	4	3	1	2	2	3	7	4	8	6	11	10	11	A	4.9	10.9
17-Apr-06	8	6	5	3	3	6	8	4	2	3	1	1	1	0	1	2	2	2	3	6	8	22	A	29	5.5	29.1
18-Apr-06	21	20	22	19	30	18	19	10	7	5	9	8	4	2	3	2	2	3	4	17	18	A	37	24	13.2	37.4
19-Apr-06	23	19	8	6	7	14	12	11	5	2	3	2	1	1	1	2	2	3	3	7	A	13	10	10	7.3	23.0
20-Apr-06	12	9	18	28	30	20	23	18	12	3	2	1	2	2	2	3	2	3	8	A	26	7	4	3	10.3	29.6
21-Apr-06	2	5	3	4	2	6	9	11	9	2	3	2	2	2	3	3	5	4	A	10	8	4	10	12	5.2	12.0
22-Apr-06	12	7	4	7	2	3	4	3	3	3	3	2	2	2	2	1	2	A	5	3	3	2	1	1	3.3	11.7
23-Apr-06	2	3	4	1	2	5	5	4	3	2	1	0	0	0	0	0	A	3	2	4	7	10	15	14	3.8	15.2
24-Apr-06	18	12	8	11	15	20	22	19	11	2	1	1	1	1	1	A	3	3	7	8	5	2	2	1	7.6	22.4
25-Apr-06	1	2	13	17	5	12	15	5	2	2	1	2	2	1	A	5	3	3	3	11	14	9	5	2	5.9	17.0
26-Apr-06	2	2	3	3	6	11	8	6	3	6	4	4	4	A	6	4	4	4	9	10	12	3	2	1	5.1	12.2
27-Apr-06	2	2	13	6	6	7	6	5	4	4	5	4	A	7	4	2	4	4	5	11	12	12	9	14	6.5	14.2
28-Apr-06	28	17	9	11	8	13	15	15	9	12	6	A	7	3	3	3	3	4	11	13	8	14	8	10	10.0	28.1
29-Apr-06	4	2	2	2	2	6	6	4	4	2	A	6	3	2	2	2	4	5	8	13	23	23	2	2	5.5	23.4
30-Apr-06	1	1	1	2	1	8	3	2	2	A	5	5	6	4	4	3	3	4	5	6	5	4	3	2	3.5	8.2
Hourly Avg	7.5	7.7	7.9	8.0	7.1	8.6	9.0	8.4	5.9	4.5	4.3	3.5	3.1	2.6	3.0	3.1	3.8	3.9	6.1	8.2	10.6	8.9	7.4	6.9		
Hourly Max	28.1	35.6	22.3	28.0	30.5	24.9	23.0	30.2	14.3	15.8	15.7	9.9	7.5	8.5	7.9	8.8	9.9	11.3	11.1	16.8	28.3	27.0	37.4	29.1		

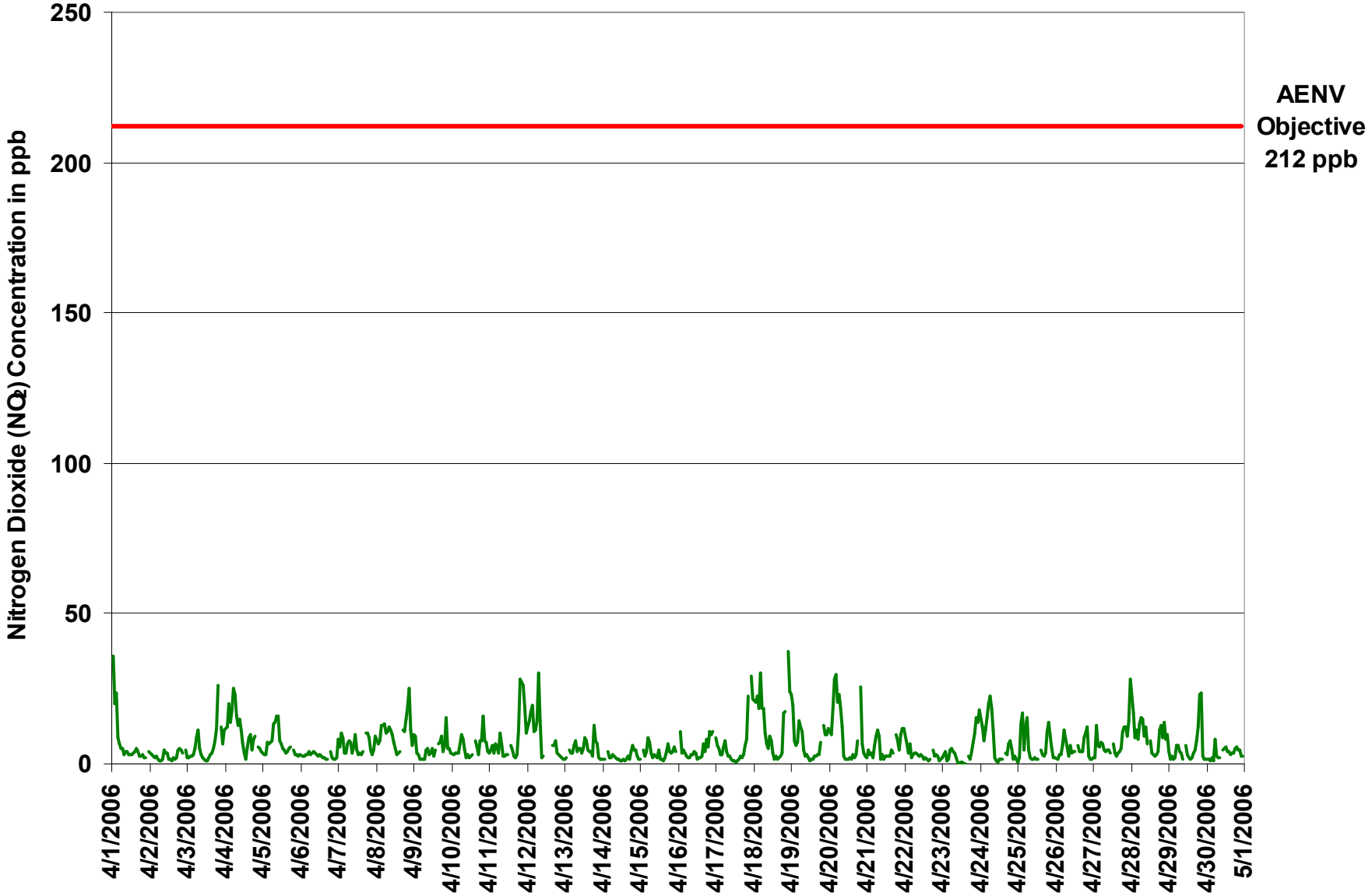


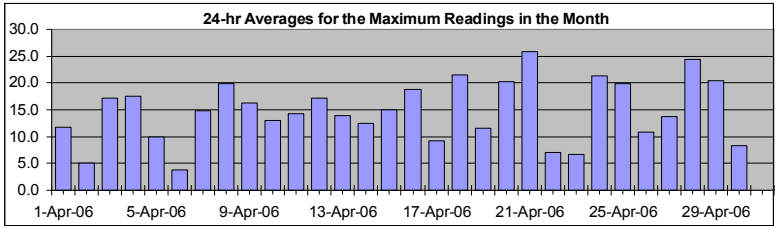
Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Cresent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO_2)

Monitoring Dates: April 1, 2006 to May 1, 2006



Summary

Maximum 1-hr Value:	140.8	ppb	21-Apr	23:00 0:00
Maximum 24-hr Value:	25.9	ppb	21-Apr	

AIC Time:	32 hrs	Operational Time:	684 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	56.6	39.9	20.2	10.2	5.2	2.7	1.9	14.7 ppb	10.2 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-Apr-06	A	42	31	46	13	22	19	8	4	7	6	6	5	5	6	7	9	7	4	3	4	3	3	A	11.8	45.6
2-Apr-06	6	6	4	3	4	3	3	2	6	7	6	5	3	3	2	5	3	5	17	7	7	6	A	6	5.1	16.7
3-Apr-06	3	6	6	22	26	34	13	35	13	32	40	15	2	12	16	7	6	8	12	16	40	A	20	13	17.2	39.9
4-Apr-06	21	16	39	20	29	33	27	20	21	29	24	10	9	3	11	18	18	10	15	12	A	7	6	5	17.6	38.7
5-Apr-06	4	4	7	11	8	8	15	15	17	22	18	11	16	14	9	5	6	7	12	A	6	4	4	4	9.9	22.2
6-Apr-06	4	4	4	4	4	5	4	4	5	4	4	4	5	3	3	3	3	2	A	6	3	3	2	4	3.8	6.0
7-Apr-06	20	8	33	24	9	7	11	26	11	6	9	16	20	5	15	5	8	A	14	20	34	7	5	30	14.8	34.3
8-Apr-06	24	15	15	29	16	33	12	12	19	17	14	10	8	4	5	6	A	33	29	39	40	45	18	15	19.9	44.9
9-Apr-06	22	31	5	43	3	19	2	16	19	14	7	14	26	6	10	A	15	17	21	5	12	33	9	23	16.2	42.5
10-Apr-06	5	4	15	5	5	21	16	11	7	4	31	13	17	7	A	13	7	4	14	14	46	14	22	6	13.0	46.3
11-Apr-06	6	8	9	7	9	10	7	14	10	5	11	5	7	A	8	6	4	3	4	31	57	47	34	25	14.3	57.5
12-Apr-06	16	20	21	25	14	19	26	40	32	12	11	C	C	C	C	A	8	35	12	5	20	4	3	3	17.3	40.5
13-Apr-06	3	9	A	6	11	5	15	15	9	8	9	7	10	34	41	9	9	9	8	46	19	28	5	2	13.8	46.2
14-Apr-06	3	19	A	9	5	15	4	14	3	2	7	2	13	17	4	5	38	4	35	17	24	14	32	3	12.5	38.2
15-Apr-06	2	A	28	13	6	20	32	36	12	5	4	4	46	5	18	4	6	7	46	8	6	15	13	8	15.0	46.3
16-Apr-06	A	29	6	26	5	4	5	28	7	25	23	35	5	15	6	8	29	14	39	11	16	33	42	A	18.8	42.4
17-Apr-06	14	9	7	4	5	8	10	8	4	4	3	2	8	2	4	3	6	4	5	11	15	37	A	38	9.1	38.5
18-Apr-06	46	27	31	43	59	30	26	13	10	7	13	11	6	4	6	2	5	12	8	33	24	A	43	33	21.5	59.5
19-Apr-06	28	41	12	11	10	29	14	13	10	4	4	4	3	2	2	5	4	7	7	12	A	18	12	13	11.6	40.5
20-Apr-06	41	17	40	38	33	30	29	30	17	9	3	5	3	34	3	29	6	7	15	A	43	11	5	17	20.3	42.6
21-Apr-06	5	32	6	29	3	10	12	14	15	3	60	3	18	24	32	11	75	36	A	14	16	10	25	141	25.9	140.8
22-Apr-06	33	22	12	13	3	5	6	5	6	5	6	4	3	4	3	3	3	A	7	4	4	4	6	3	7.1	33.1
23-Apr-06	4	6	7	2	4	7	7	6	6	5	2	2	2	2	1	1	A	5	2	7	11	25	20	20	6.7	25.0
24-Apr-06	22	18	11	14	24	24	26	26	15	10	34	2	6	40	7	A	14	8	71	24	51	3	35	2	21.3	71.5
25-Apr-06	17	52	34	30	9	40	26	7	5	23	20	35	6	4	A	17	16	5	7	18	18	20	23	23	19.8	52.1
26-Apr-06	20	3	4	4	10	24	10	14	4	30	9	10	6	A	10	6	8	6	19	19	22	4	3	3	10.8	30.4
27-Apr-06	9	10	26	20	16	14	12	7	9	9	11	9	A	10	9	4	6	19	12	22	16	22	16	29	13.8	29.0
28-Apr-06	43	25	34	39	31	36	34	18	15	19	12	A	37	8	24	6	5	8	56	21	10	23	17	43	24.5	56.4
29-Apr-06	10	3	32	11	6	36	17	5	45	3	A	70	26	19	4	23	34	7	9	26	39	33	6	10	20.5	70.0
30-Apr-06	5	10	11	24	5	30	4	3	3	A	7	8	8	7	7	5	4	6	8	10	8	6	5	7	8.2	30.0
Hourly Avg	15.6	17.1	17.4	19.1	12.9	19.4	14.8	15.6	12.0	11.5	14.0	11.5	11.6	10.9	9.8	8.0	12.7	10.6	18.2	16.5	21.9	17.1	15.5	18.9		
Hourly Max	46.3	52.1	39.8	45.6	59.5	40.3	34.2	40.5	44.6	32.0	59.7	70.0	45.8	39.9	40.6	29.2	74.9	35.7	71.5	46.2	57.5	47.5	43.0	140.8		

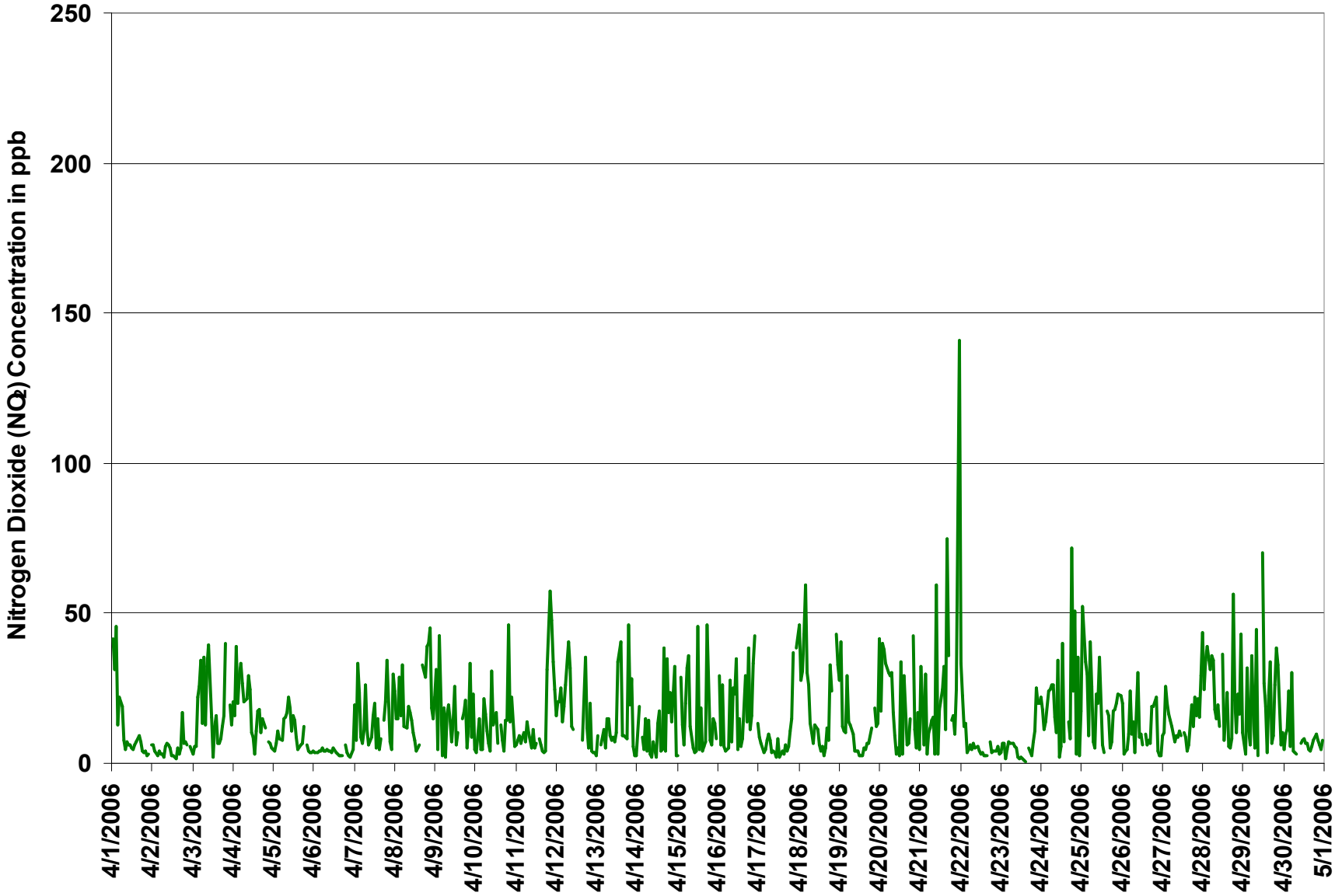
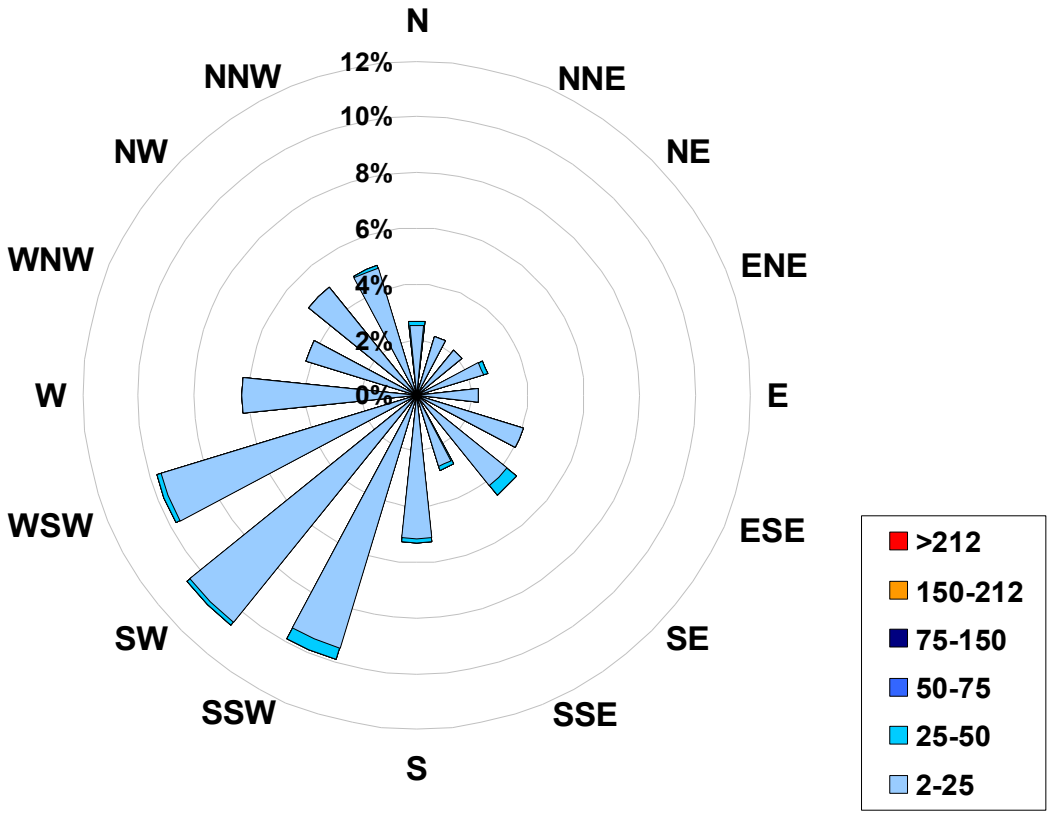


Figure 2. PAS - Crescent Heights Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Crescent Heights Site for April 2006



Calms:	0%

Frequency Distribution of NO_2 in ppb			
Range			Frequency (hrs)
2.0	<	25	679
25	to	50	5
50	to	75	0
75	to	150	0
150	to	212	0
	>	212	0
Total Non-Zero Values			684

PAS - Crescent Heights - Nitric Oxide Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

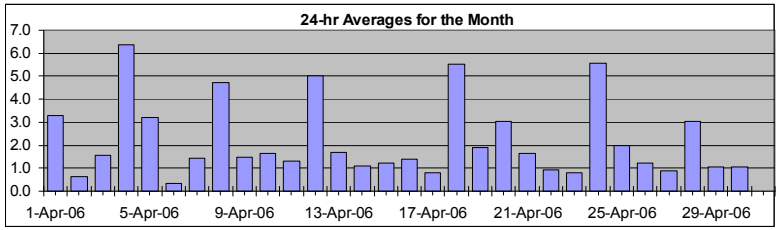
Nitric Oxide (NO)

Monitoring Dates: April 1, 2006 to May 1, 2006

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

Summary

Maximum 1-hr Average:	49.1	ppb	12-Apr	7:00 8:00
Maximum 24-hr Average:	6.4	ppb	4-Apr	



AIC Time:	32 hrs	Operational Time:	684 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	19.3	8.2	1.8	0.9	0.5	0.2	0.1	2.2 ppb	0.9 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

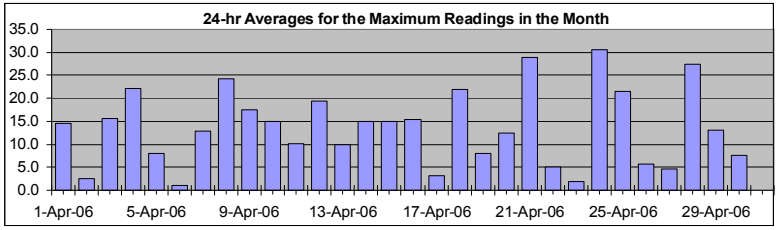
Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-06	A	14	4	23	1	4	3	2	2	3	3	2	2	1	1	1	1	1	1	0	1	1	0	A	3.3	23.4
2-Apr-06	0	0	0	0	0	0	0	0	0	1	2	2	1	1	0	1	1	1	1	1	1	1	A	1	0.6	1.7
3-Apr-06	0	1	1	1	2	2	2	7	3	2	2	2	1	1	1	1	1	1	1	0	4	A	0	0	1.5	6.7
4-Apr-06	1	1	4	2	3	26	41	16	14	18	9	4	1	1	1	2	2	0	0	0	A	0	0	0	6.4	41.0
5-Apr-06	0	0	0	0	1	1	3	10	13	18	14	3	2	2	1	1	1	1	1	A	0	0	0	0	3.2	17.7
6-Apr-06	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	A	0	0	0	0	0	0.3	0.6
7-Apr-06	1	0	4	2	0	0	1	3	2	2	2	3	2	1	2	1	1	A	1	1	2	1	0	3	1.4	3.8
8-Apr-06	3	2	1	13	3	8	5	9	16	14	9	6	3	1	1	1	A	2	1	2	1	8	1	1	4.7	16.5
9-Apr-06	2	4	0	3	0	1	0	1	3	2	1	2	2	1	2	A	2	1	1	1	1	2	0	2	1.5	3.8
10-Apr-06	0	0	1	0	0	2	3	4	3	1	5	2	1	2	A	2	1	1	1	1	5	0	1	0	1.6	5.3
11-Apr-06	0	0	1	0	1	0	0	2	1	1	1	1	1	A	1	1	0	0	0	1	4	6	5	1	1.3	6.0
12-Apr-06	0	3	4	9	0	1	9	49	13	1	2	C	C	C	C	A	1	2	0	0	0	0	0	0	5.0	49.1
13-Apr-06	0	1	A	1	0	1	2	2	2	2	2	2	2	3	6	2	2	1	1	4	1	2	1	1	1.7	5.7
14-Apr-06	1	2	A	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	2	1	1	1	2	0	1.1	2.4
15-Apr-06	0	A	1	1	0	1	3	3	2	2	1	1	3	1	1	1	1	1	2	0	1	1	0	0	1.2	3.5
16-Apr-06	A	1	0	1	0	0	0	2	1	2	3	3	1	1	1	1	3	1	2	0	1	1	5	A	1.4	4.9
17-Apr-06	1	1	0	0	0	1	1	1	1	1	1	0	0	0	1	0	1	1	1	0	1	2	A	4	0.8	4.3
18-Apr-06	8	1	3	6	22	8	18	9	6	4	6	4	2	1	1	1	1	1	1	4	1	A	16	2	5.5	22.5
19-Apr-06	2	5	1	1	1	6	6	8	3	2	2	1	1	1	1	1	1	1	1	1	A	0	1	0	1.9	7.8
20-Apr-06	3	1	4	1	5	2	16	19	8	1	1	1	1	1	1	1	1	1	1	A	2	0	0	0	3.0	18.6
21-Apr-06	0	2	0	1	0	0	2	4	4	1	2	1	1	1	2	1	4	2	A	1	0	0	1	8	1.6	7.9
22-Apr-06	3	1	0	0	0	0	1	1	1	1	2	1	1	1	1	1	1	A	1	1	1	0	1	1	0.9	2.7
23-Apr-06	0	0	0	0	0	1	2	2	2	2	1	1	1	1	1	0	A	1	1	0	0	1	1	1	0.8	2.3
24-Apr-06	1	1	0	1	2	10	46	37	9	1	2	1	1	1	1	A	1	1	6	2	1	0	2	0	5.6	45.8
25-Apr-06	1	2	8	4	1	4	6	2	1	1	1	4	1	1	A	1	1	1	1	1	1	0	1	1	2.0	8.1
26-Apr-06	1	0	0	0	1	2	2	2	2	5	2	2	2	A	1	1	1	1	1	1	1	0	0	0	1.2	4.9
27-Apr-06	0	0	1	0	0	0	1	1	1	1	2	1	A	2	1	1	1	1	1	2	0	0	0	0	0.9	2.1
28-Apr-06	12	1	1	5	2	7	10	8	5	6	2	A	2	1	0	0	0	1	2	1	0	1	0	1	3.0	12.2
29-Apr-06	0	0	1	0	0	1	1	1	2	1	A	2	1	1	1	2	2	1	1	0	1	4	0	1	1.1	3.9
30-Apr-06	1	1	1	2	0	5	1	1	1	A	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1.1	5.4
Hourly Avg	1.5	1.6	1.6	2.7	1.7	3.2	6.2	6.9	4.1	3.3	2.8	1.8	1.4	1.2	1.1	1.0	1.2	0.9	1.2	0.9	1.2	1.2	1.5	1.1		
Hourly Max	12.2	14.5	8.1	23.4	22.5	26.1	45.8	49.1	16.5	17.9	14.0	6.0	3.4	3.4	5.7	2.1	3.9	2.5	6.5	4.0	5.0	7.8	16.0	7.9		

Station: Cresent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: April 1, 2006 to May 1, 2006



Summary

Maximum 1-hr Value:	243.9	ppb	21-Apr	23:00 0:00
Maximum 24-hr Value:	30.6	ppb	24-Apr	

AIC Time:	32 hrs	Operational Time:	684 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	104.2	58.4	14.0	2.9	1.6	1.0	0.8	13.6 ppb	2.9 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

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-Apr-06	A	48	31	119	3	43	27	4	4	7	5	5	4	2	3	2	3	2	1	1	1	1	2	A	14.5	119.5
2-Apr-06	1	2	2	2	2	2	2	1	3	2	3	3	2	2	1	1	1	1	17	2	2	2	A	2	2.5	17.3
3-Apr-06	1	4	4	35	48	39	5	45	30	43	33	23	1	17	9	2	2	2	2	1	11	A	1	1	15.6	47.8
4-Apr-06	3	2	35	3	26	56	76	33	44	170	32	7	4	1	3	4	5	1	1	1	A	1	1	1	22.2	169.9
5-Apr-06	1	1	1	1	2	3	23	16	22	33	21	7	14	13	10	2	2	2	9	A	1	1	1	1	8.1	33.0
6-Apr-06	1	1	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1	A	1	1	1	1	1	1.1	1.7
7-Apr-06	3	1	47	8	1	2	4	61	4	3	3	5	19	3	22	2	3	A	2	2	48	1	1	53	12.9	61.2
8-Apr-06	40	14	3	102	6	99	6	16	37	26	16	8	5	2	2	1	A	11	32	50	26	50	3	3	24.3	101.9
9-Apr-06	13	71	1	112	1	38	1	15	35	8	3	13	30	2	4	A	6	4	3	1	2	11	1	25	17.4	112.1
10-Apr-06	1	1	18	1	1	16	20	6	4	3	103	31	10	4	A	4	2	1	2	8	100	1	7	1	15.0	103.1
11-Apr-06	1	1	2	1	1	1	4	5	4	2	6	2	7	A	2	2	1	1	1	3	88	75	16	4	10.1	87.8
12-Apr-06	2	8	13	24	2	24	41	110	45	12	12	C	C	C	C	A	2	52	1	1	17	1	1	1	19.4	109.5
13-Apr-06	1	7	A	2	4	1	18	4	4	4	4	4	4	21	56	3	3	3	2	38	12	31	1	1	10.0	55.7
14-Apr-06	2	41	A	9	19	16	1	9	2	2	9	2	13	34	2	2	47	2	53	2	27	1	48	1	14.9	52.5
15-Apr-06	1	A	37	14	1	6	71	72	16	3	2	2	46	3	9	2	2	2	38	1	2	12	1	1	15.0	71.5
16-Apr-06	A	6	1	25	1	1	2	52	13	27	29	47	2	15	2	11	21	3	14	1	2	12	52	A	15.4	52.1
17-Apr-06	2	2	1	1	1	2	2	3	2	2	2	1	1	1	5	1	2	1	2	3	4	8	A	23	3.1	23.2
18-Apr-06	77	5	11	81	98	41	33	16	11	6	10	7	3	2	2	1	2	16	2	26	2	A	44	7	21.8	97.7
19-Apr-06	7	43	2	3	2	76	10	11	7	3	3	2	1	1	1	2	1	2	2	2	A	1	2	1	8.1	76.3
20-Apr-06	46	2	16	7	13	6	38	46	14	5	2	3	2	38	1	22	2	2	2	A	6	1	2	12	12.4	45.8
21-Apr-06	1	85	8	28	1	2	4	5	8	2	52	2	18	24	39	7	84	46	A	1	1	1	2	244	28.9	243.9
22-Apr-06	43	9	9	1	1	1	1	2	3	3	3	3	2	15	2	2	2	A	2	2	2	1	6	2	5.1	42.5
23-Apr-06	2	1	1	1	1	1	3	4	4	4	2	2	2	2	1	1	A	1	1	1	1	2	1	2	1.9	4.0
24-Apr-06	3	2	2	2	9	33	65	74	14	6	45	2	4	36	7	A	6	3	231	43	45	1	71	2	30.6	230.9
25-Apr-06	38	78	57	16	3	55	12	4	3	27	14	112	5	3	A	9	16	2	1	2	3	1	14	18	21.4	111.5
26-Apr-06	33	2	1	1	2	17	4	6	3	28	11	4	3	A	3	2	2	1	2	1	2	2	2	2	5.8	32.6
27-Apr-06	2	1	3	2	2	2	2	3	4	4	4	2	A	4	3	2	2	8	2	22	1	12	3	16	4.6	21.8
28-Apr-06	60	4	59	101	74	64	88	13	9	15	5	A	28	3	9	1	1	12	50	1	1	2	1	29	27.3	100.6
29-Apr-06	2	1	34	3	3	25	8	2	29	1	A	29	21	18	2	43	31	1	2	1	10	15	1	20	13.1	43.4
30-Apr-06	3	8	8	64	1	54	2	2	2	A	2	3	3	3	2	2	1	2	2	2	2	2	2	2	7.6	64.5
Hourly Avg	13.9	15.6	14.5	25.7	11.0	24.2	19.2	21.3	12.6	15.5	15.1	11.9	9.2	10.0	7.5	5.2	9.1	6.6	17.1	7.9	15.0	9.0	10.2	17.0		
Hourly Max	76.8	84.6	58.6	119.5	97.7	98.5	88.1	109.5	44.6	169.9	103.1	111.5	45.9	37.9	55.7	43.4	83.7	51.8	230.9	49.7	99.6	75.1	70.8	243.9		

PAS - Crescent Heights - Oxides of Nitrogen Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

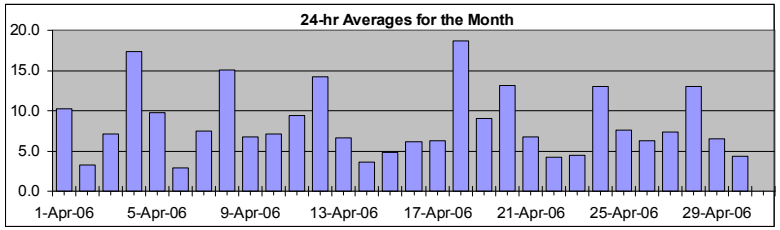
Oxides of Nitrogen (NO_x)

Monitoring Dates: April 1, 2006 to May 1, 2006

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

Summary

Maximum 1-hr Average:	79.0	ppb	12-Apr	7:00 8:00
Maximum 24-hr Average:	18.6	ppb	18-Apr	



AIC Time:	32 hrs	Operational Time:	684 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	50.2	26.2	10.0	5.1	3.2	1.8	1.1	8.4 ppb	5.1 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

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-Apr-06	A	50	24	47	10	10	8	7	5	7	7	4	5	4	5	5	6	5	3	3	3	2	2	A	10.2	50.0
2-Apr-06	4	3	3	2	3	2	1	1	2	5	5	5	2	2	1	2	2	3	5	5	5	4	A	5	3.2	5.5
3-Apr-06	2	2	3	4	5	7	11	18	8	5	3	3	2	2	3	4	4	6	8	12	30	A	13	7	7.1	30.4
4-Apr-06	12	13	24	16	21	51	64	32	27	33	20	10	5	2	7	11	12	5	8	10	A	6	5	4	17.3	64.0
5-Apr-06	4	3	3	7	7	8	11	23	27	34	30	11	9	7	6	4	5	6	7	A	5	3	3	3	9.7	33.5
6-Apr-06	3	3	3	3	3	4	3	4	4	4	4	3	3	3	2	2	2	1	A	4	2	2	2	2	2.9	4.4
7-Apr-06	9	6	14	11	4	4	8	10	9	5	7	13	6	4	5	4	5	A	11	11	11	5	3	7	7.5	14.1
8-Apr-06	12	8	9	26	15	22	15	20	29	25	19	13	8	4	4	5	A	13	12	17	20	33	12	7	15.1	32.7
9-Apr-06	12	13	4	6	2	3	2	3	7	7	5	5	8	3	7	A	9	9	10	5	7	17	6	7	6.7	17.0
10-Apr-06	4	3	4	4	4	8	13	13	7	3	8	4	4	5	A	10	7	4	8	8	21	8	8	4	7.1	20.8
11-Apr-06	4	5	7	4	7	6	4	12	8	3	3	4	3	A	7	5	3	2	3	11	32	33	31	20	9.4	32.7
12-Apr-06	11	17	21	28	11	12	23	79	27	3	3	C	C	C	C	A	6	9	8	4	3	3	2	2	14.2	79.0
13-Apr-06	2	3	A	5	4	4	8	10	6	8	7	5	7	11	13	6	5	5	3	17	9	8	3	2	6.6	16.8
14-Apr-06	2	3	A	5	3	3	4	4	3	2	2	2	2	3	2	3	5	2	7	7	6	5	4	2	3.6	6.9
15-Apr-06	2	A	6	3	5	10	10	7	3	5	4	3	8	2	2	2	3	5	9	4	4	5	5	4	4.8	10.5
16-Apr-06	A	12	4	6	3	3	2	4	4	5	7	6	2	3	3	4	10	5	10	6	11	11	15	A	6.1	15.3
17-Apr-06	9	7	5	3	3	7	9	5	3	3	2	1	1	1	2	2	3	3	3	6	9	24	A	34	6.3	33.6
18-Apr-06	29	22	26	25	53	26	37	20	13	9	16	12	6	2	3	2	3	3	4	20	19	A	53	26	18.6	53.3
19-Apr-06	25	24	8	7	8	21	18	18	8	4	5	3	2	2	2	3	3	4	3	8	A	13	10	10	9.1	25.3
20-Apr-06	14	10	22	29	35	23	38	37	20	4	2	2	2	3	2	4	2	3	8	A	28	7	4	3	13.1	38.4
21-Apr-06	2	7	3	4	2	6	11	15	13	2	5	2	4	4	4	4	9	5	A	10	8	5	11	20	6.8	19.8
22-Apr-06	15	7	4	7	2	3	4	4	4	4	5	4	3	4	3	2	2	A	6	4	4	3	2	2	4.2	14.5
23-Apr-06	2	4	4	1	2	5	7	6	6	4	1	1	1	1	1	0	A	3	2	4	8	11	16	14	4.5	15.8
24-Apr-06	19	13	8	12	17	30	68	55	20	3	2	1	2	2	2	A	4	3	13	9	6	2	5	1	13.0	67.8
25-Apr-06	1	4	21	21	5	16	21	7	3	3	2	6	2	2	A	6	4	3	4	11	15	9	6	3	7.6	21.4
26-Apr-06	3	2	3	3	7	13	10	8	4	11	5	6	6	A	7	5	5	5	9	11	13	3	2	2	6.3	13.2
27-Apr-06	2	2	14	7	6	8	7	6	5	6	6	4	A	9	5	3	4	5	6	13	13	13	10	15	7.3	14.9
28-Apr-06	40	18	10	16	10	20	26	23	13	18	8	A	9	4	3	3	3	5	13	13	9	14	8	11	13.0	40.3
29-Apr-06	4	2	3	2	2	7	7	5	6	2	A	7	4	3	2	3	5	5	8	13	24	27	2	2	6.4	27.2
30-Apr-06	2	2	1	3	1	13	3	2	3	A	6	6	7	5	5	4	4	4	5	6	5	5	3	3	4.3	13.3
Hourly Avg	8.9	9.2	9.4	10.6	8.7	11.8	15.1	15.2	9.9	7.8	6.9	5.2	4.4	3.6	4.0	4.0	4.9	4.7	7.2	9.1	11.8	10.0	8.8	7.9		
Hourly Max	40.3	50.0	25.8	46.9	53.0	51.0	67.8	79.0	28.8	33.5	29.7	13.1	9.2	11.4	13.3	10.8	11.7	12.8	13.3	20.4	32.3	32.7	53.3	33.6		

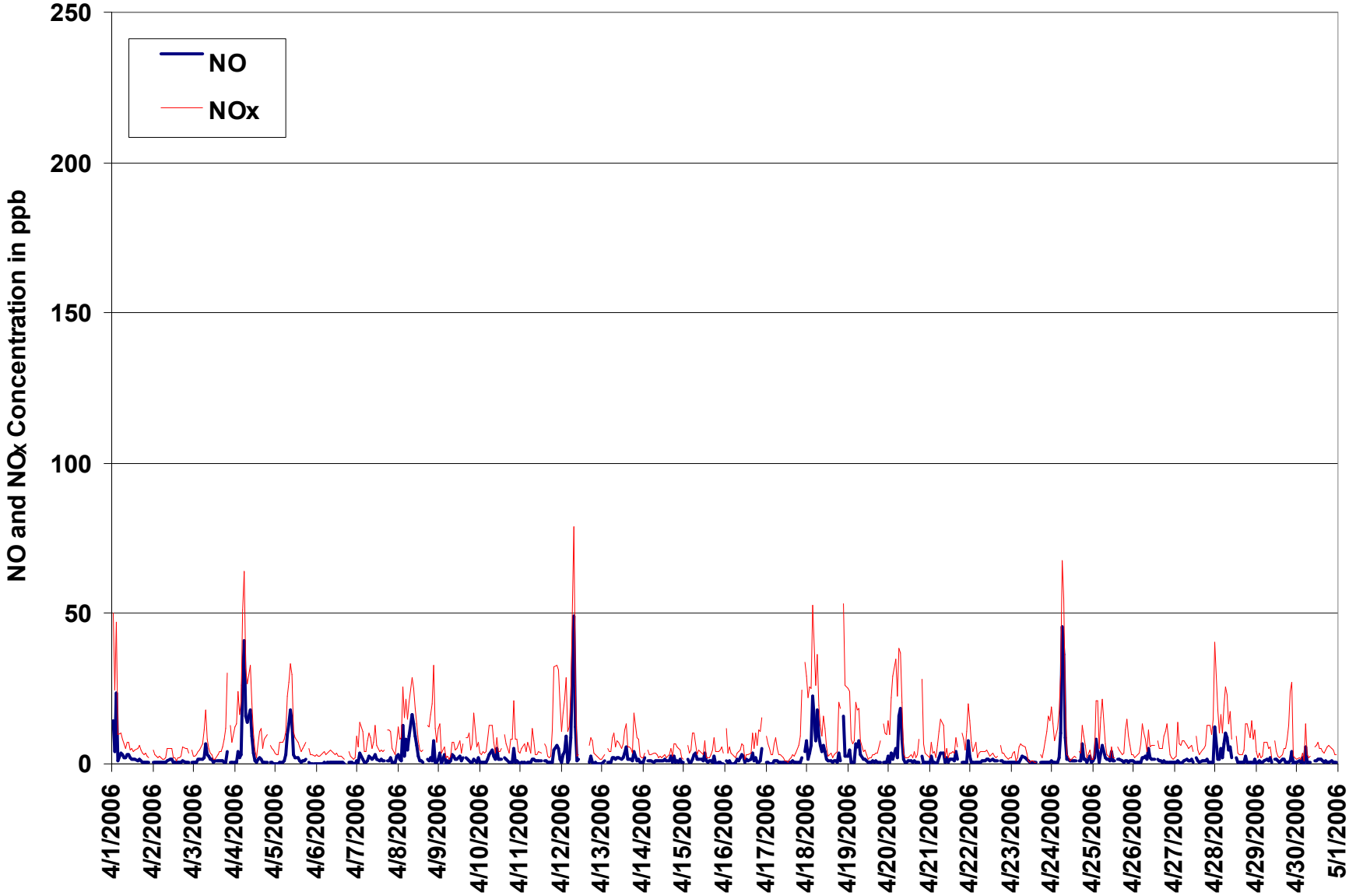


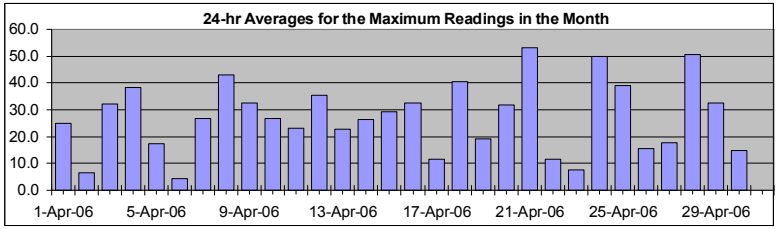
Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Cresent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: April 1, 2006 to May 1, 2006



Summary

Maximum 1-hr Value:	383.7	ppb	21-Apr	23:00 0:00
Maximum 24-hr Value:	53.0	ppb	21-Apr	

AIC Time:	32 hrs	Operational Time:	684 hrs	
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%	

Percentile	99	95	75	50	25	5	1	Average	Median
	145.9	94.5	32.7	13.0	6.5	3.3	2.3	27.2 ppb	13.0 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-Apr-06	A	85	59	160	14	61	45	12	8	14	11	10	9	7	7	9	12	9	5	4	5	3	3	A	25.1	160.0
2-Apr-06	7	6	4	3	5	3	3	2	7	8	7	8	3	3	2	6	3	6	35	8	7	7	A	6	6.6	34.7
3-Apr-06	4	9	9	57	73	70	17	78	43	74	72	36	3	30	24	9	8	10	13	16	48	A	20	13	32.0	77.9
4-Apr-06	23	17	74	22	55	78	100	53	63	193	56	17	13	3	14	22	23	12	15	13	A	8	7	5	38.5	193.0
5-Apr-06	4	4	7	11	10	11	32	31	38	54	39	18	30	27	17	6	7	8	21	A	7	4	4	4	17.2	54.4
6-Apr-06	4	4	3	4	4	5	4	5	6	5	5	4	7	4	4	3	3	2	A	6	4	3	2	4	4.2	6.5
7-Apr-06	22	8	77	28	10	6	15	80	15	8	11	20	38	7	36	6	10	A	16	22	83	8	5	81	26.6	82.9
8-Apr-06	64	28	18	126	22	126	17	28	52	40	30	18	13	6	7	7	A	43	61	89	67	92	22	18	43.2	126.4
9-Apr-06	36	95	5	147	4	53	3	32	54	22	10	26	56	8	15	A	20	20	23	6	13	43	9	48	32.5	147.4
10-Apr-06	5	5	33	5	6	36	35	17	11	6	124	43	26	10	A	17	9	5	16	20	139	14	29	6	26.8	138.7
11-Apr-06	7	8	11	7	9	11	11	18	11	5	15	6	10	A	10	8	5	3	4	34	146	120	49	26	23.2	145.6
12-Apr-06	17	28	33	49	14	41	67	144	73	23	22	C	C	C	C	A	8	86	12	6	37	4	3	4	35.4	144.3
13-Apr-06	3	17	A	7	17	6	26	20	12	12	12	10	13	54	94	12	12	11	9	83	31	58	6	3	22.9	93.7
14-Apr-06	4	50	A	18	21	30	5	23	5	3	16	3	26	49	6	7	84	6	83	19	46	15	80	3	26.3	84.3
15-Apr-06	3	A	66	27	7	26	102	108	29	8	5	6	90	7	27	5	7	9	78	8	7	26	14	8	29.2	108.1
16-Apr-06	A	35	6	47	6	4	7	79	18	50	52	78	6	26	7	17	50	17	52	12	18	45	87	A	32.6	86.7
17-Apr-06	14	10	7	4	6	10	12	10	5	6	5	2	9	2	6	4	7	5	7	13	20	45	A	62	11.7	62.0
18-Apr-06	108	32	40	116	149	68	51	29	21	12	22	19	8	6	8	3	7	28	9	55	26	A	81	38	40.6	149.5
19-Apr-06	35	82	14	13	13	104	23	23	16	6	6	6	4	3	3	7	6	9	8	13	A	19	14	14	19.1	103.6
20-Apr-06	82	19	54	44	45	36	66	76	30	13	4	8	4	72	4	51	8	8	15	A	47	11	5	29	31.7	82.3
21-Apr-06	5	116	12	48	3	11	16	19	23	4	112	4	28	48	66	18	157	78	A	15	16	10	26	384	53.0	383.7
22-Apr-06	75	32	19	14	4	5	7	6	9	7	8	5	5	19	3	4	4	A	9	5	5	4	11	3	11.4	74.7
23-Apr-06	4	7	7	2	5	8	8	10	8	8	3	2	2	2	2	1	A	6	3	7	11	27	21	22	7.7	27.0
24-Apr-06	24	19	12	15	32	56	87	98	28	17	77	3	9	75	12	A	20	10	289	59	95	3	106	3	50.0	289.5
25-Apr-06	53	130	82	44	12	86	37	10	8	50	34	136	11	6	A	25	30	7	8	19	20	21	33	38	39.1	135.9
26-Apr-06	52	3	5	5	11	40	13	17	6	54	20	14	9	A	12	8	8	7	20	20	23	5	3	3	15.6	54.3
27-Apr-06	11	11	28	22	17	15	13	9	13	13	13	11	A	13	12	5	8	28	15	44	17	31	16	44	17.7	44.4
28-Apr-06	102	28	92	133	103	100	119	30	23	32	17	A	61	9	32	7	6	18	106	21	11	24	17	72	50.5	132.9
29-Apr-06	11	3	54	16	8	61	25	7	74	3	A	99	47	37	4	61	65	7	10	27	46	47	6	29	32.5	99.0
30-Apr-06	6	16	19	87	6	82	4	4	5	A	7	9	11	8	8	5	5	6	8	11	8	7	5	11	14.7	87.3
Hourly Avg	28.0	31.3	30.3	42.8	23.0	41.7	32.4	35.9	23.8	25.9	28.1	22.2	19.6	20.0	16.4	12.2	21.2	16.5	33.9	23.3	35.8	25.2	24.4	35.1		
Hourly Max	107.7	129.6	91.9	160.0	149.5	126.4	118.7	144.3	74.0	193.0	124.3	135.9	89.8	75.2	93.7	61.2	157.0	85.9	289.5	88.8	145.6	119.9	105.8	383.7		

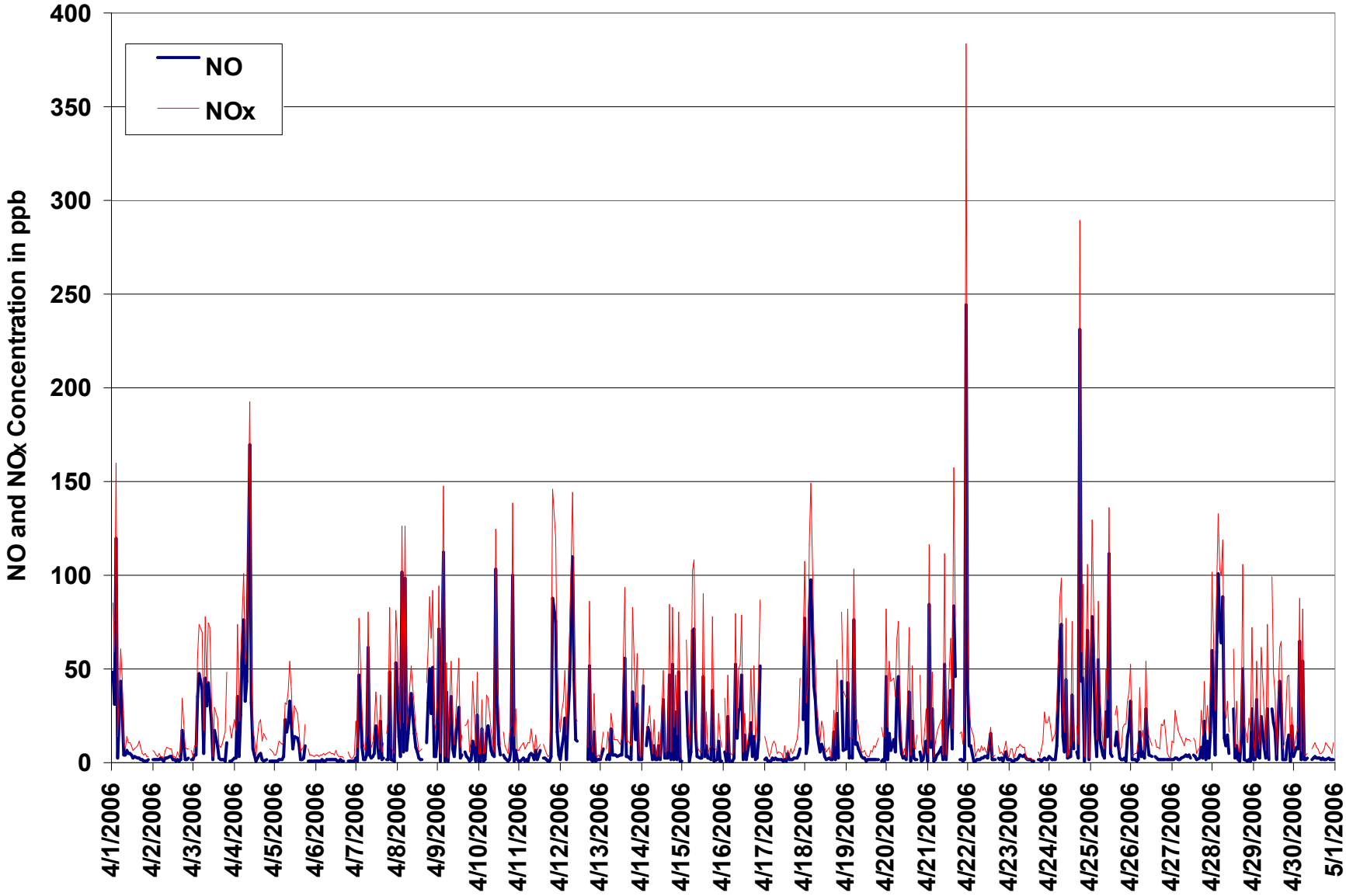


Figure 4. PAS - Crescent Heights Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PAS - Crescent Heights - Ozone Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

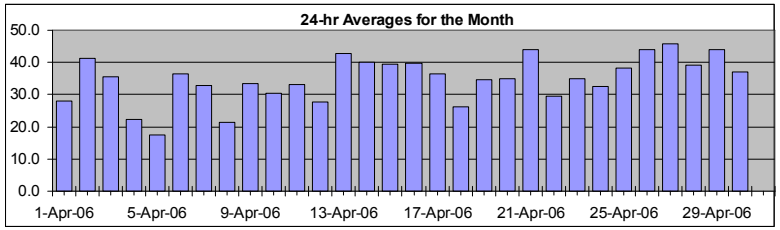
Ozone (O_3)

Monitoring Dates: April 1, 2006 to May 1, 2006

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

Summary

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	65.4	ppb	28-Apr	15:00 16:00
Maximum 24-hr Average:	45.7	ppb	27-Apr	



AIC Time:	33 hrs	Operational Time:	684 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	61.9	52.9	45.4	36.6	27.0	8.8	3.9	34.8 ppb	36.6 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

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-Apr-06	A	2	10	7	15	20	17	19	23	27	30	35	39	40	41	43	44	43	35	32	31	31	33	A	28.1	43.9
2-Apr-06	35	36	37	38	39	42	40	40	41	39	42	44	49	49	50	49	47	46	42	38	34	35	A	35	41.2	49.9
3-Apr-06	37	34	30	29	32	31	26	24	31	38	44	47	47	49	48	47	46	43	39	34	14	A	19	26	35.5	48.6
4-Apr-06	18	15	7	10	6	1	3	10	13	13	21	24	38	42	38	34	34	39	34	32	A	30	31	24	22.4	42.0
5-Apr-06	22	20	18	12	9	11	9	4	4	4	5	13	15	22	23	27	25	21	20	A	30	31	29	28	17.4	31.3
6-Apr-06	28	28	29	30	29	28	29	27	27	30	34	42	48	48	48	48	47	46	A	40	40	38	37	35	36.4	48.2
7-Apr-06	26	26	22	27	39	39	35	34	33	37	37	30	37	38	38	37	36	A	30	27	29	32	36	32	32.8	39.3
8-Apr-06	18	15	14	7	6	4	7	8	11	15	21	23	32	37	42	44	A	38	35	29	24	13	22	25	21.3	44.1
9-Apr-06	18	18	26	30	31	33	36	37	36	36	40	41	38	42	39	A	42	40	37	38	33	23	29	26	33.4	42.1
10-Apr-06	24	25	25	23	22	17	16	19	28	35	34	37	39	41	A	40	39	45	38	37	28	30	26	30	30.4	44.9
11-Apr-06	28	24	22	28	28	36	42	37	40	44	45	45	46	A	44	45	47	45	42	30	13	13	7	9	33.1	46.7
12-Apr-06	11	7	4	3	10	14	12	8	25	42	45	42	46	48	46	44	43	C	C	C	A	A	38	40	27.8	47.8
13-Apr-06	39	37	A	36	37	34	29	35	46	46	47	50	49	47	49	54	53	52	51	38	36	35	41	41	42.7	53.7
14-Apr-06	39	41	A	41	40	38	36	36	38	38	40	44	47	46	46	45	43	43	39	35	33	36	37	38	40.0	46.6
15-Apr-06	38	A	36	38	32	26	25	29	34	39	43	47	44	48	47	48	47	45	42	45	45	41	35	34	39.4	47.8
16-Apr-06	A	29	31	32	30	30	34	37	46	47	47	47	48	48	48	49	46	49	45	42	32	31	28	A	39.8	48.7
17-Apr-06	29	31	33	36	35	29	26	31	35	38	43	48	48	49	49	48	48	47	45	38	32	15	A	6	36.4	48.8
18-Apr-06	10	9	11	13	4	9	8	14	19	24	31	38	44	48	47	50	50	50	48	31	28	A	4	9	26.1	50.4
19-Apr-06	5	10	21	21	19	12	16	19	29	37	42	49	53	54	56	56	56	55	55	49	A	30	29	27	34.7	56.0
20-Apr-06	24	25	19	9	4	9	10	18	24	45	48	50	51	52	53	52	54	53	47	A	21	42	47	50	35.0	53.8
21-Apr-06	48	40	42	45	48	39	34	33	39	53	50	50	49	50	51	52	50	48	A	37	40	43	36	34	44.0	53.0
22-Apr-06	28	28	27	27	33	30	30	31	32	31	28	28	26	25	26	27	28	A	26	33	31	34	37	37	29.6	37.2
23-Apr-06	34	31	30	32	31	26	26	30	34	37	41	45	46	47	47	47	A	47	46	40	34	26	13	12	34.9	47.5
24-Apr-06	7	11	14	9	8	4	4	12	25	47	49	49	50	51	51	A	51	51	47	41	42	43	41	40	32.4	51.1
25-Apr-06	42	38	22	20	32	27	24	36	44	45	47	49	52	52	A	55	48	45	43	34	25	26	36	38	38.1	54.6
26-Apr-06	33	34	29	29	25	23	30	34	37	40	50	54	56	A	60	63	64	65	57	45	39	47	48	50	44.0	64.9
27-Apr-06	48	47	35	44	45	41	43	49	53	50	48	46	A	49	56	59	56	54	52	38	36	35	38	29	45.7	59.5
28-Apr-06	11	13	21	20	21	17	15	23	30	37	51	A	62	64	65	65	64	62	54	47	44	33	37	41	39.1	65.4
29-Apr-06	51	54	54	54	53	45	40	41	43	43	A	44	46	47	47	48	49	47	41	34	20	14	49	51	44.1	54.5
30-Apr-06	51	48	49	48	47	23	33	36	38	A	37	32	29	32	31	33	34	34	33	34	37	37	37	38	37.0	50.6
Hourly Avg	28.6	26.8	25.6	26.6	27.0	24.7	24.4	27.0	32.0	36.4	39.3	41.2	43.9	45.2	46.0	46.7	46.0	46.4	41.5	36.9	31.5	31.3	32.2	31.6		
Hourly Max	51.1	54.5	53.9	53.7	52.9	45.2	42.9	48.8	53.0	53.0	51.4	54.3	61.7	63.9	64.9	65.4	64.2	64.9	56.6	49.1	45.4	47.3	49.2	50.8		

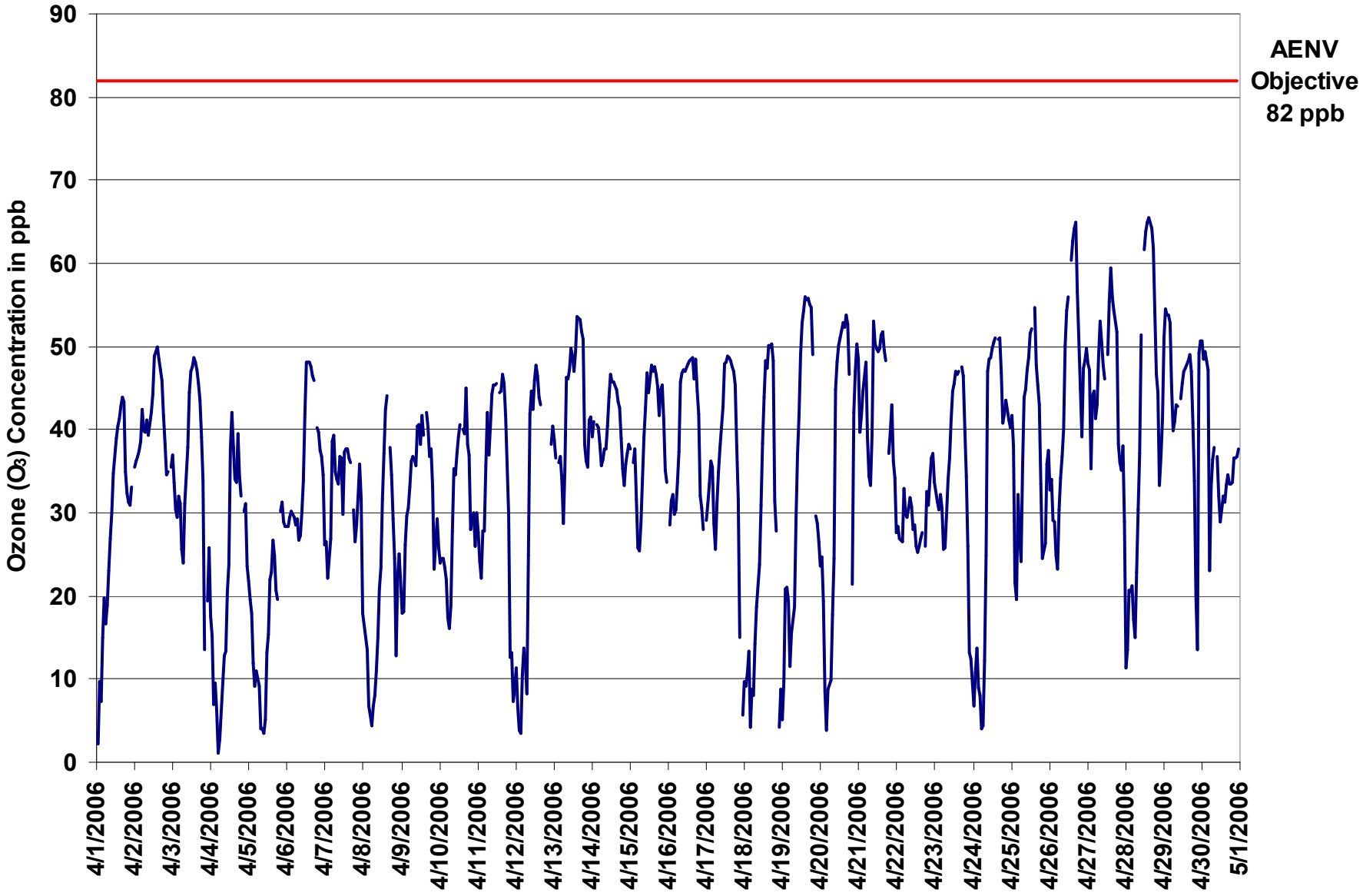


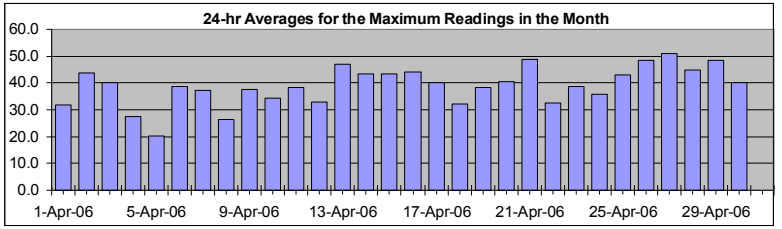
Figure 5. PAS - Crescent Heights Ozone 1-hr Average Monthly Trend

Station: Cresent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O_3)

Monitoring Dates: April 1, 2006 to May 1, 2006



Summary

Maximum 1-hr Value:	67.8	ppb	28-Apr	15:00 16:00
Maximum 24-hr Value:	50.8	ppb	27-Apr	

AIC Time:	33 hrs	Operational Time:	684 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	66.4	56.2	48.8	40.2	31.4	14.9	7.5	39.0 ppb	40.2 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-Apr-06	A	8	14	17	21	25	20	22	25	30	33	40	44	43	45	45	47	47	37	34	34	34	34	A	31.7	47.5
2-Apr-06	38	40	39	39	42	45	42	42	44	43	44	48	50	51	51	51	50	49	45	42	37	37	A	37	43.8	51.4
3-Apr-06	38	37	32	31	34	35	30	30	37	42	49	50	49	51	51	51	49	47	43	41	35	A	29	30	40.1	51.4
4-Apr-06	21	19	15	14	12	2	8	15	19	19	25	35	42	45	43	42	40	42	41	36	A	34	37	26	27.5	44.9
5-Apr-06	24	21	20	16	14	14	14	7	5	5	12	16	20	25	25	30	29	25	21	A	33	33	30	30	20.4	33.0
6-Apr-06	30	30	31	32	31	30	31	28	29	32	38	48	51	50	50	49	49	48	A	43	41	39	38	39	38.5	51.1
7-Apr-06	32	29	29	35	43	42	40	38	39	40	42	36	40	40	40	39	39	A	34	31	33	37	38	37	37.1	42.5
8-Apr-06	24	19	18	12	8	7	10	10	15	19	24	28	36	41	45	47	A	43	42	37	34	26	34	31	26.5	46.5
9-Apr-06	24	25	31	33	33	36	38	39	41	42	44	43	43	44	44	A	47	46	41	40	37	32	31	29	37.6	46.9
10-Apr-06	27	27	27	28	25	23	20	23	34	37	38	42	42	44	A	45	45	48	42	40	38	35	30	32	34.4	48.0
11-Apr-06	30	30	30	31	30	45	44	42	43	46	48	50	50	A	47	49	49	48	44	42	21	25	26	15	38.4	49.6
12-Apr-06	14	12	8	13	15	18	18	15	40	45	48	45	48	49	49	48	58	C	C	C	A	A	40	42	32.9	57.7
13-Apr-06	41	39	A	38	38	37	34	43	51	49	51	53	53	54	56	67	56	55	53	48	40	39	45	43	47.1	67.4
14-Apr-06	42	44	A	43	42	40	38	38	39	39	44	48	67	48	47	47	46	44	43	42	37	41	40	40	43.4	67.5
15-Apr-06	40	A	38	39	37	31	29	31	39	43	46	50	49	50	50	49	49	48	48	52	51	48	41	37	43.3	52.0
16-Apr-06	A	36	35	36	32	33	36	43	49	50	51	50	50	51	51	52	52	53	53	46	39	34	37	A	44.1	53.5
17-Apr-06	31	35	38	38	39	31	27	34	38	40	47	49	50	50	51	50	50	49	48	44	37	26	A	16	40.0	50.6
18-Apr-06	19	16	20	18	9	14	11	18	22	28	38	43	48	50	50	51	54	54	53	46	33	A	20	22	32.1	53.5
19-Apr-06	16	17	23	24	22	17	19	23	34	39	48	53	54	56	58	58	58	58	57	54	A	32	32	30	38.3	58.0
20-Apr-06	30	31	33	17	10	13	15	26	32	48	50	53	53	54	55	56	57	57	54	A	36	47	49	55	40.5	56.7
21-Apr-06	54	44	45	48	50	48	38	36	54	55	54	52	52	52	54	54	53	53	A	43	47	47	46	42	48.7	55.0
22-Apr-06	34	31	29	33	35	32	33	32	34	34	30	31	29	27	27	28	31	A	35	35	33	37	40	40	32.7	39.8
23-Apr-06	37	35	35	35	35	28	30	35	37	41	45	46	48	48	48	48	A	49	49	45	38	39	20	15	38.5	49.2
24-Apr-06	11	15	17	12	13	7	6	19	31	50	51	51	52	53	54	A	53	54	52	47	44	45	45	42	35.9	53.8
25-Apr-06	43	41	36	34	35	35	37	40	46	47	49	52	55	54	A	58	51	47	46	42	30	34	41	40	43.1	58.2
26-Apr-06	38	38	31	31	30	30	34	37	40	50	57	58	60	A	63	65	66	68	67	54	50	50	50	51	48.5	67.6
27-Apr-06	50	50	46	50	50	44	47	56	57	54	52	48	A	55	59	61	59	58	57	49	44	42	43	38	50.8	61.2
28-Apr-06	32	22	23	24	25	23	22	27	34	42	56	A	65	66	67	68	67	66	64	52	49	42	44	49	44.8	67.8
29-Apr-06	55	56	56	55	55	52	42	44	46	45	A	46	48	49	49	51	52	52	44	41	32	39	53	52	48.5	56.3
30-Apr-06	53	51	51	51	49	39	36	38	39	A	40	36	33	35	34	35	36	35	36	37	39	39	39	40	40.1	52.6
Hourly Avg	33.1	30.9	30.4	30.9	30.4	29.2	28.4	31.1	36.5	39.9	43.2	44.8	47.6	47.7	48.8	49.8	49.7	49.7	46.3	43.1	37.9	37.5	37.6	35.8		
Hourly Max	54.5	56.1	56.3	55.3	54.5	52.2	46.9	56.5	56.9	55.0	57.3	58.1	67.5	65.6	67.4	67.8	66.6	67.6	66.9	53.6	51.2	49.7	52.7	54.7		

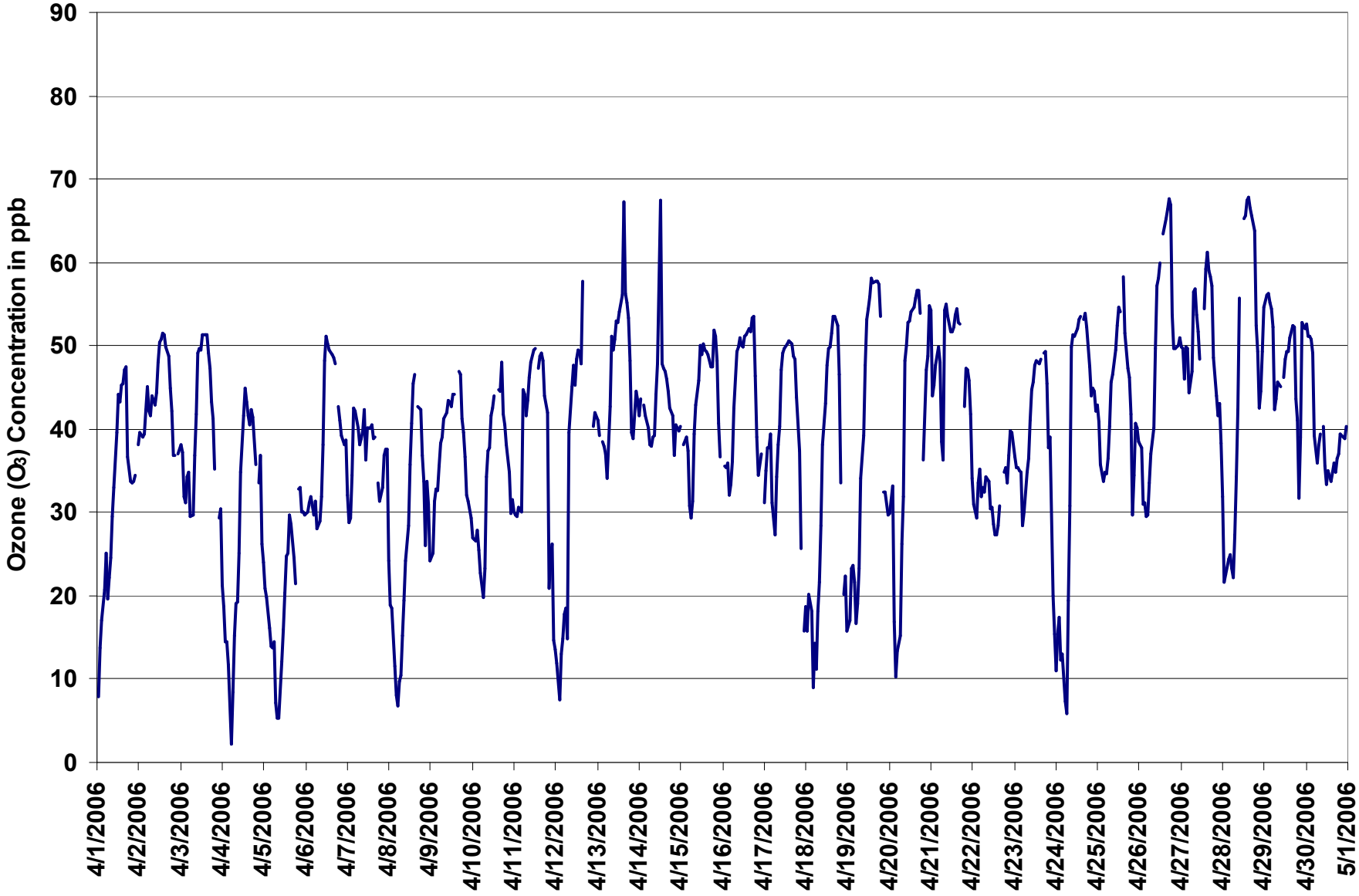
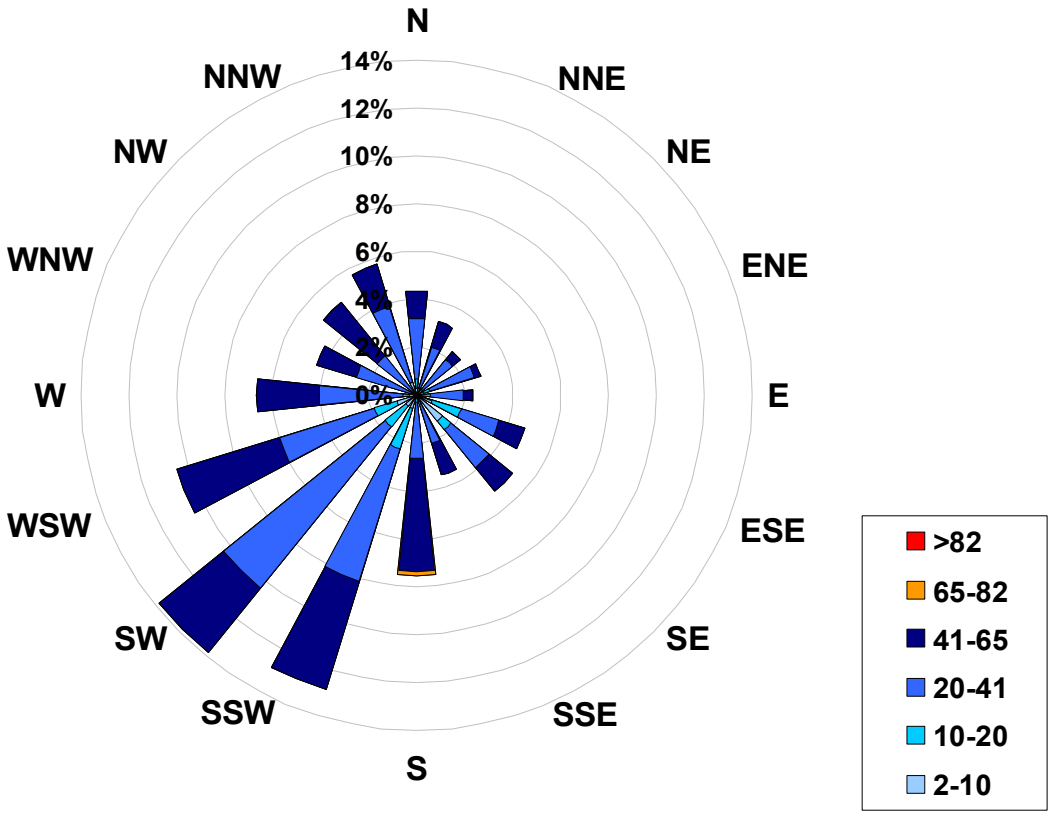


Figure 6. PAS - Crescent Heights Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb)
Located at the Crescent Heights Site for April 2006



Calms:	0%

Frequency Distribution of O_3 in ppb			
Range			Frequency (hrs)
2.0	<	10	45
10	to	20	56
20	to	41	338
41	to	65	244
65	to	82	1
	>	82	0
Total Non-Zero Values			684

PAS - Crescent Heights - Ozone Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O_3)

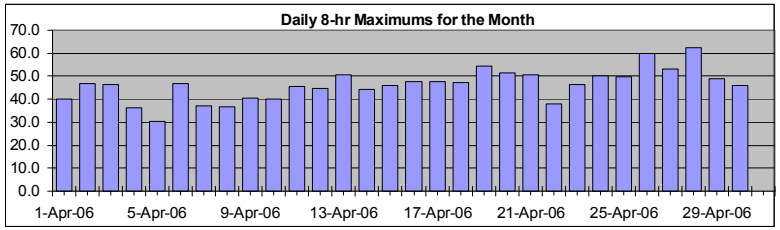
Station: Cresent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2006 to May 1, 2006

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

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	62.2	ppb	28-Apr	18:00 19:00



Percentile	99	95	75	50	25	5	1
	58.0	50.1	43.5	35.9	29.0	12.6	8.4

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / 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-Apr-06	37	31	26	22	18	16	14	13	14	17	20	23	26	29	32	35	37	39	40	40	39	38	37	36	40.0
2-Apr-06	34	33	34	34	35	37	38	38	39	39	40	41	42	43	44	45	46	47	47	46	44	43	42	40	47.0
3-Apr-06	38	37	35	34	33	33	32	30	30	30	32	34	36	38	41	44	46	47	46	44	40	39	35	32	46.5
4-Apr-06	28	24	19	15	14	13	11	9	8	8	9	11	15	20	25	28	30	34	35	36	36	35	34	32	36.4
5-Apr-06	30	28	25	22	21	18	16	13	11	9	7	7	8	10	11	14	17	19	21	22	24	25	26	26	30.3
6-Apr-06	27	28	29	29	29	29	29	29	29	29	29	31	33	36	38	41	43	45	47	46	45	44	42	40	46.6
7-Apr-06	37	35	33	31	31	31	31	31	32	33	35	35	35	35	35	36	36	36	35	35	33	33	32	32	37.3
8-Apr-06	29	27	25	23	20	16	13	10	9	9	10	12	15	19	24	28	31	34	36	37	36	32	29	27	36.7
9-Apr-06	26	23	22	22	23	25	27	29	31	33	35	36	37	38	39	39	40	40	40	39	39	36	35	34	40.3
10-Apr-06	31	29	28	26	25	24	22	21	22	23	24	26	28	31	33	36	38	39	40	40	38	37	35	34	39.9
11-Apr-06	33	30	28	27	27	28	30	31	32	35	38	40	42	43	43	44	45	45	45	43	38	35	30	26	45.4
12-Apr-06	21	16	12	8	8	8	9	9	10	15	20	25	29	33	38	42	44	45	N	N	N	N	N	N	44.9
13-Apr-06	N	N	N	N	N	37	36	35	36	38	39	41	42	44	46	49	49	50	51	49	48	46	45	44	50.6
14-Apr-06	42	40	39	39	40	40	40	39	39	38	38	39	40	41	42	43	44	44	44	43	41	40	39	38	44.2
15-Apr-06	37	37	36	37	36	35	33	32	31	32	33	34	36	39	41	44	45	46	46	46	46	45	43	42	46.0
16-Apr-06	41	39	37	35	33	32	31	32	34	36	38	40	42	44	46	48	48	48	47	47	45	43	40	39	47.8
17-Apr-06	36	34	32	31	32	32	31	31	32	33	34	36	37	40	43	45	46	47	48	46	44	40	39	33	47.7
18-Apr-06	27	22	17	14	10	9	9	10	11	13	15	18	23	28	33	38	42	45	47	46	44	44	37	32	47.1
19-Apr-06	25	19	15	14	13	13	14	15	18	22	24	28	32	37	42	47	50	53	54	54	54	51	47	43	54.4
20-Apr-06	38	34	29	23	21	18	16	15	15	17	21	26	32	37	43	47	51	52	51	52	47	46	45	45	51.6
21-Apr-06	44	42	42	42	45	45	43	41	40	42	43	43	44	45	47	49	51	50	50	48	47	46	44	41	50.6
22-Apr-06	38	35	34	33	32	30	29	29	30	30	30	30	29	29	28	28	27	27	27	27	28	29	31	32	38.0
23-Apr-06	33	33	33	33	33	32	31	30	30	31	32	34	35	38	41	43	44	46	46	46	44	41	36	31	46.4
24-Apr-06	28	24	20	16	13	10	9	9	11	15	20	25	30	36	42	46	49	50	50	49	48	47	45	44	50.0
25-Apr-06	43	42	39	36	35	33	31	30	30	31	34	38	40	44	46	49	50	50	49	47	43	39	39	37	49.6
26-Apr-06	35	33	32	31	31	31	30	30	30	31	34	37	41	43	47	51	55	59	60	59	56	55	54	52	59.9
27-Apr-06	50	48	45	45	46	45	44	44	45	45	47	47	47	48	50	52	52	53	53	52	50	48	46	42	53.2
28-Apr-06	37	32	28	26	24	21	19	18	20	23	27	28	34	40	47	54	58	62	62	60	58	54	51	48	62.2
29-Apr-06	46	45	45	46	47	49	49	49	48	47	45	44	43	43	44	45	46	47	46	45	42	37	38	38	49.0
30-Apr-06	38	38	39	41	45	46	44	42	40	39	38	35	33	34	34	33	33	33	32	33	34	34	35	35	45.9
Hourly Max	49.9	47.6	45.2	46.1	47.2	48.7	49.0	49.0	48.0	46.5	46.6	46.9	47.2	48.3	50.1	53.6	58.4	61.9	62.2	60.3	58.1	55.0	53.5	51.9	

PAS - Crescent Heights - Carbon Monoxide Monthly Summary

HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

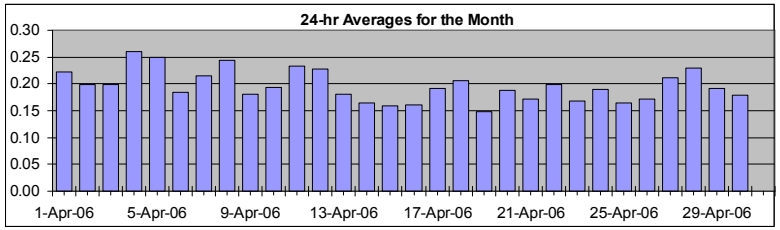
Station: Cresent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2006 to May 1, 2006

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	4-Apr	6:00 7:00
Maximum 24-hr Value:	0.3	ppm	4-Apr	



AIC Time:	33 hrs							Operational Time:	684 hrs																
Calibration Time:	3 hrs							AMD Operational Uptime:	100.0%																
Percentile	99	95	75	50	25	5	1		Average		Median														
	0.4	0.3	0.2	0.2	0.2	0.1	0.1		0.2	ppm	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-Apr-06	A	0.4	0.3	0.4	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	A	0.22	0.42
2-Apr-06	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	A	0.2	0.20	0.21
3-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	A	0.1	0.1	0.20	0.44
4-Apr-06	0.1	0.2	0.2	0.2	0.2	0.4	0.8	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	A	0.2	0.2	0.2	0.26	0.77
5-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	A	0.2	0.2	0.2	0.2	0.25	0.42
6-Apr-06	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	A	0.2	0.2	0.2	0.1	0.2	0.18	0.20
7-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	A	0.3	0.3	0.2	0.2	0.2	0.2	0.21	0.27
8-Apr-06	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.3	0.3	0.4	0.4	0.2	0.2	0.24	0.45
9-Apr-06	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	A	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.23
10-Apr-06	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.19	0.33
11-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.3	0.2	0.23	0.45
12-Apr-06	0.2	0.2	0.2	0.2	0.1	0.3	0.3	0.7	0.4	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	0.23	0.68
13-Apr-06	0.2	0.2	A	0.2	0.2	0.2	0.2	C	C	C	A	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.25
14-Apr-06	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.16	0.18
15-Apr-06	0.2	A	0.1	0.1	0.1	0.2	0.2	0.2	0.1	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	0.16	0.19
16-Apr-06	A	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.16	0.20
17-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.3	A	0.3	0.19	0.30
18-Apr-06	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	A	0.4	0.2	0.21	0.40
19-Apr-06	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	A	0.1	0.1	0.1	0.15	0.23
20-Apr-06	0.1	0.1	0.1	0.2	0.2	0.2	0.4	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	A	0.3	0.2	0.1	0.1	0.19	0.41
21-Apr-06	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	A	0.2	0.2	0.2	0.2	0.2	0.17	0.24
22-Apr-06	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	A	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.22
23-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.17	0.23
24-Apr-06	0.2	0.2	0.1	0.2	0.2	0.2	0.5	0.6	0.3	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.19	0.58
25-Apr-06	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.16	0.28
26-Apr-06	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	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.17	0.22
27-Apr-06	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.21	0.33
28-Apr-06	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.23	0.37
29-Apr-06	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.5	0.2	0.2	0.19	0.48
30-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.20
Hourly Avg	0.18	0.19	0.18	0.18	0.18	0.21	0.26	0.26	0.21	0.19	0.18	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.20	0.22	0.25	0.22	0.19	0.18		
Hourly Max	0.37	0.42	0.32	0.38	0.30	0.43	0.77	0.68	0.42	0.37	0.33	0.27	0.25	0.26	0.23	0.25	0.27	0.23	0.26	0.29	0.48	0.45	0.40	0.31		

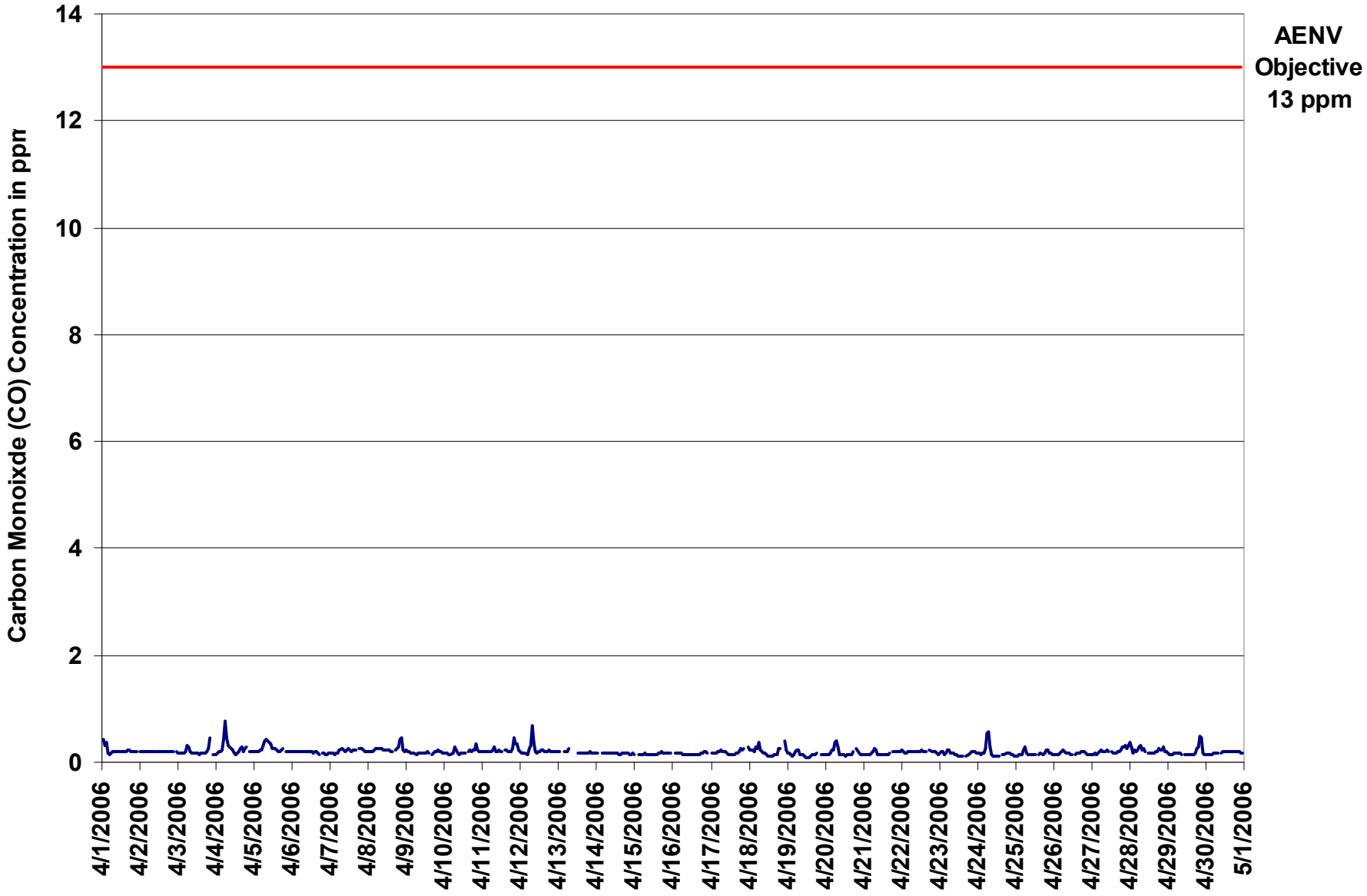


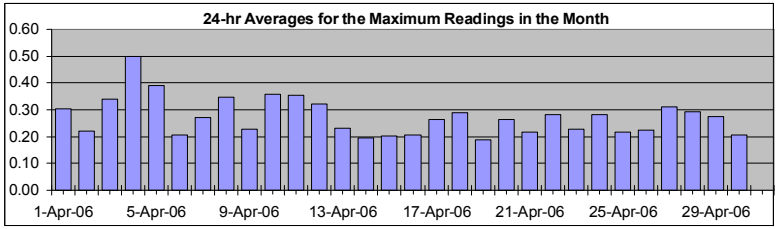
Figure 7. PAS - Crescent Heights Carbon Monoxide 1-hr Average Monthly Trend

Station: Cresent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

Monitoring Dates: April 1, 2006 to May 1, 2006



Summary

Maximum 1-hr Value:	2.2	ppm	3-Apr	6:00 7:00
Maximum 24-hr Value:	0.5	ppm	4-Apr	

AIC Time:	33 hrs	Operational Time:	684 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	1.1	0.6	0.3	0.2	0.2	0.2	0.1	0.3 ppm	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-Apr-06	A	0.6	0.5	0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	A	0.30	0.84
2-Apr-06	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.22	0.28
3-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	2.2	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.9	A	0.1	0.2	0.34	2.17
4-Apr-06	0.1	0.3	0.6	0.6	1.3	1.4	1.1	0.7	0.7	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	A	0.2	0.2	0.2	0.50	1.40
5-Apr-06	0.2	0.2	0.2	0.2	0.2	0.4	1.1	0.7	0.5	0.5	0.4	0.3	0.4	0.7	0.4	0.3	0.2	0.3	0.6	A	0.2	0.2	0.2	0.2	0.39	1.11
6-Apr-06	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	A	0.2	0.2	0.2	0.2	0.2	0.21	0.25
7-Apr-06	0.3	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.3	A	0.3	0.3	0.3	0.2	0.2	0.2	0.27	0.44
8-Apr-06	0.2	0.2	0.2	0.2	0.2	0.5	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.3	A	0.3	0.4	0.5	0.8	0.9	0.3	0.3	0.35	0.91
9-Apr-06	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	A	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.23	0.30
10-Apr-06	0.2	0.3	0.2	0.2	0.2	0.2	0.9	0.4	0.2	0.2	0.2	0.2	0.2	0.4	A	0.5	0.2	0.2	0.3	0.2	1.8	0.3	0.2	0.2	0.36	1.79
11-Apr-06	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.3	0.4	0.4	0.2	0.3	A	0.4	0.3	0.2	0.2	0.3	0.4	1.3	0.4	0.5	0.3	0.36	1.32
12-Apr-06	0.2	0.2	0.2	0.2	0.2	0.8	0.7	0.9	0.6	0.2	0.2	0.2	0.2	0.4	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.32	0.93
13-Apr-06	0.2	0.2	A	0.2	0.2	0.2	0.4	C	C	C	A	A	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.23	0.44
14-Apr-06	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.20	0.31
15-Apr-06	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.20	0.25
16-Apr-06	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.2	A	0.21	0.35
17-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.2	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.5	0.4	0.6	A	0.4	0.26	0.60
18-Apr-06	0.2	0.3	0.2	0.3	0.4	0.4	0.6	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.7	0.4	A	0.5	0.3	0.29	0.66
19-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	A	0.2	0.1	0.2	0.19	0.30
20-Apr-06	0.2	0.1	0.1	0.3	0.3	0.3	0.6	0.8	0.4	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.3	A	0.3	0.2	0.1	0.2	0.26	0.84
21-Apr-06	0.1	0.2	0.1	0.1	0.1	0.3	0.2	0.3	0.3	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	A	0.2	0.3	0.2	0.2	0.2	0.22	0.35
22-Apr-06	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2	A	0.6	0.2	0.4	0.2	0.2	0.2	0.28	0.64
23-Apr-06	0.2	0.3	0.2	0.2	0.2	0.5	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.2	0.2	A	0.2	0.2	0.2	0.3	0.4	0.2	0.2	0.23	0.49
24-Apr-06	0.2	0.2	0.2	0.2	0.2	0.4	0.9	1.0	0.4	0.3	0.2	0.2	0.2	0.4	0.2	A	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.28	0.97
25-Apr-06	0.1	0.2	0.2	0.2	0.2	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.22	0.46
26-Apr-06	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.2	0.2	0.4	0.2	0.2	A	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.23	0.45
27-Apr-06	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.4	0.2	A	0.4	0.3	0.2	0.3	0.3	0.5	0.4	0.6	0.4	0.6	0.31	0.56
28-Apr-06	0.5	0.4	0.2	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.2	0.29	0.50
29-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5	1.1	0.9	0.2	0.2	0.27	1.15
30-Apr-06	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.25
Hourly Avg	0.21	0.23	0.22	0.24	0.25	0.33	0.49	0.39	0.28	0.25	0.25	0.22	0.21	0.26	0.22	0.23	0.23	0.22	0.30	0.31	0.45	0.32	0.24	0.23		
Hourly Max	0.50	0.59	0.64	0.84	1.29	1.40	2.17	0.97	0.74	0.49	0.45	0.35	0.40	0.73	0.44	0.48	0.45	0.34	0.64	0.66	1.79	0.91	0.54	0.56		

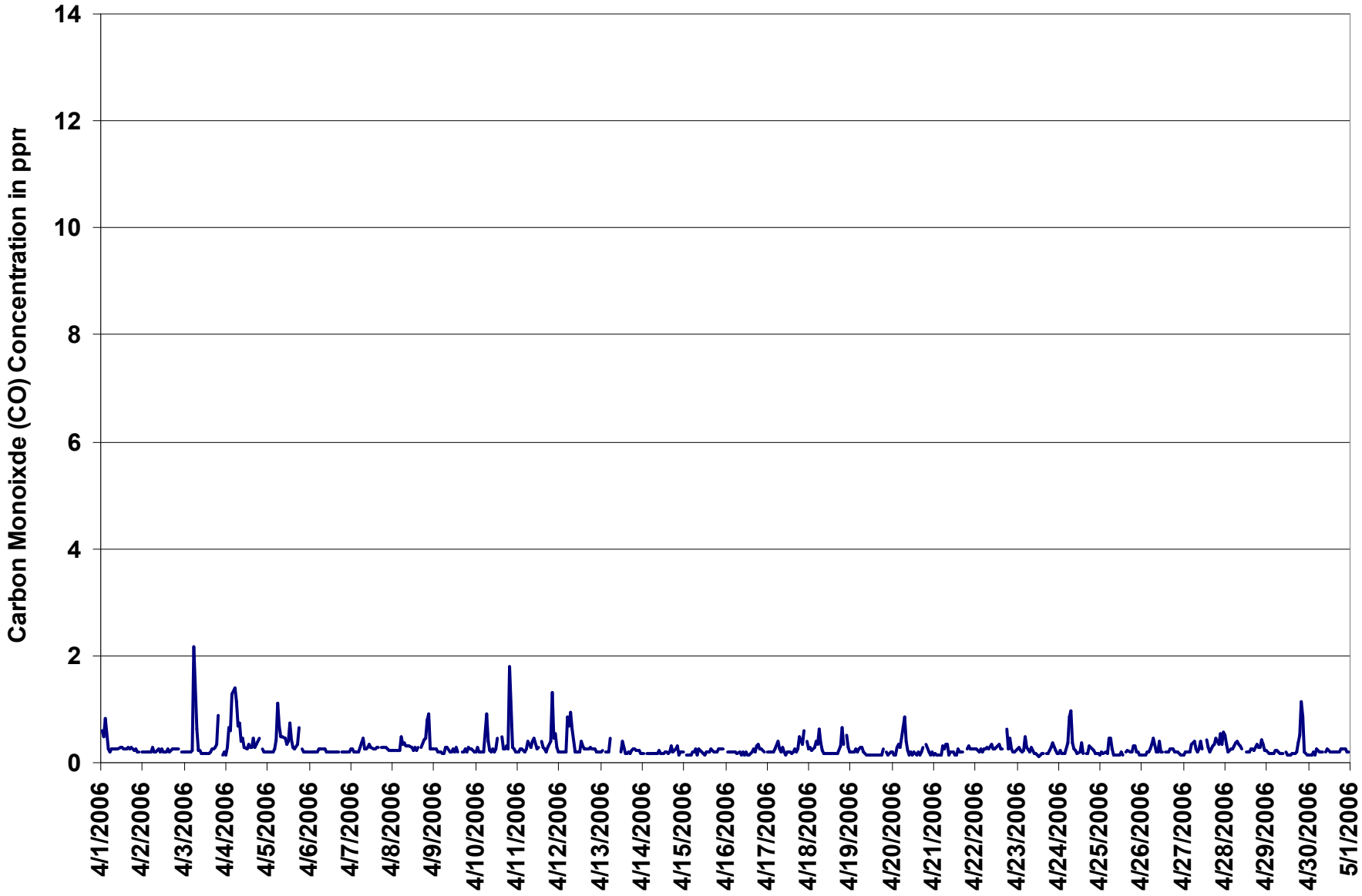
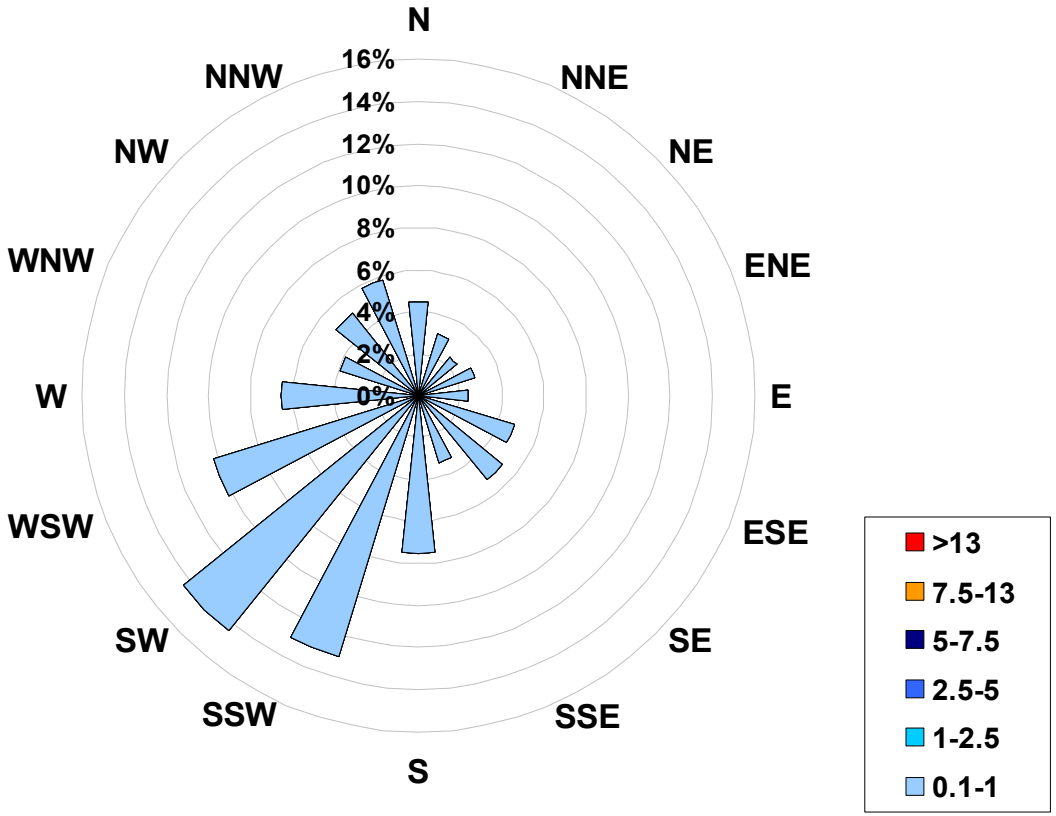


Figure 8. PAS - Crescent Heights Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Carbon Monoxide (in ppm) Located at the Crescent Heights Site for April 2006



Calms:	0%

Frequency Distribution of CO in ppm			
Range			Frequency (hrs)
0.1	<	1	684
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			684

PAS - Crescent Heights - Carbon Monoxide Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

Carbon Monoxide (CO)

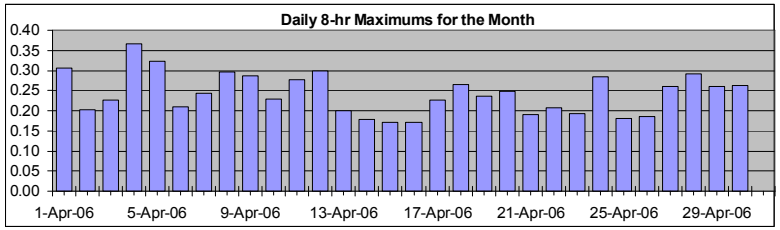
Station: Cresent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2006 to May 1, 2006

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

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	0.4	ppm	4-Apr	10:00 11:00



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

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-Apr-06	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.31
2-Apr-06	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	0.20
3-Apr-06	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	0.23
4-Apr-06	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.37
5-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.32
6-Apr-06	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	0.21
7-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
8-Apr-06	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	0.3	0.3	0.3	0.3	0.30
9-Apr-06	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.29
10-Apr-06	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	0.23
11-Apr-06	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	0.3	0.3	0.3	0.28
12-Apr-06	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.30
13-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N	N	N	N	N	N	N	N	N	N	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20
14-Apr-06	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
15-Apr-06	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	0.17
16-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17
17-Apr-06	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	0.23
18-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.26
19-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.24
20-Apr-06	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.25
21-Apr-06	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19
22-Apr-06	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	0.21
23-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.19
24-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.28
25-Apr-06	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	0.2	0.2	0.2	0.2	0.2	0.2	0.18
26-Apr-06	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
27-Apr-06	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	0.3	0.26
28-Apr-06	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.29
29-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.26
30-Apr-06	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26
Hourly Max	0.29	0.29	0.29	0.31	0.30	0.28	0.29	0.32	0.35	0.36	0.37	0.36	0.35	0.32	0.31	0.29	0.26	0.24	0.24	0.24	0.26	0.29	0.29	0.30	

PAS - Crescent Heights - Total Hydrocarbons Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

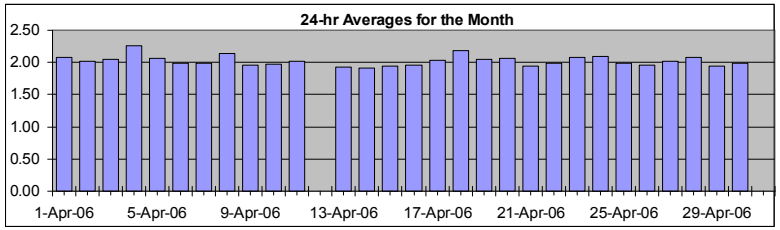
Total Hydrocarbons (THC)

Monitoring Dates: April 1, 2006 to May 1, 2006

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

Summary

Maximum 1-hr Average:	2.9	ppm	4-Apr	5:00 6:00
Maximum 24-hr Value:	2.3	ppm	4-Apr	



AIC Time:	32 hrs	Operational Time:	681 hrs
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	2.6	2.3	2.0	2.0	1.9	1.9	1.9	2.0 ppm	2.0 ppm

Status Flag Characters

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

Day **Mountain Standard Time**

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-Apr-06	A	2.5	2.5	2.4	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	2.2	2.0	2.0	2.0	2.0	2.0	A	2.09	2.54
2-Apr-06	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	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.03	2.07
3-Apr-06	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	2.1	2.5	2.7	A	2.1	2.2	2.05	2.69
4-Apr-06	2.4	2.2	2.6	2.8	2.8	2.9	2.8	2.4	2.3	2.4	2.3	2.2	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.1	A	2.0	2.0	2.0	2.26	2.85
5-Apr-06	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	1.9	1.9	2.0	2.06	2.18
6-Apr-06	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	A	2.0	2.0	2.0	2.0	2.0	1.98	2.01
7-Apr-06	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	A	2.0	2.0	2.0	2.0	2.0	2.0	1.99	2.02
8-Apr-06	2.0	2.0	2.1	2.2	2.2	2.3	2.3	2.4	2.3	2.2	2.2	2.1	2.0	2.0	2.0	2.0	A	2.0	2.0	2.1	2.2	2.3	2.1	2.0	2.14	2.37
9-Apr-06	2.0	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	1.95	2.06
10-Apr-06	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	A	2.0	2.0	1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.98	2.04
11-Apr-06	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	1.9	A	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.1	2.3	2.2	2.02	2.28
12-Apr-06	2.2	2.1	2.2	2.2	2.2	2.2	2.3	2.3	2.1	2.0	C	C	C	C	C	C	C	A	2.0	1.9	1.9	1.9	1.9	1.9	N	2.32
13-Apr-06	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.9	1.93	2.00
14-Apr-06	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.91	1.93
15-Apr-06	1.9	A	1.9	1.9	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	2.0	2.0	2.0	2.0	1.94	2.00
16-Apr-06	A	2.0	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	1.96	2.04
17-Apr-06	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.2	2.2	A	2.4	2.04	2.38
18-Apr-06	2.3	2.3	2.3	2.2	2.3	2.3	2.3	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	A	2.7	2.3	2.18	2.70
19-Apr-06	2.3	2.4	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	1.9	1.9	2.1	A	2.1	2.0	2.1	2.05	2.36
20-Apr-06	2.1	2.1	2.1	2.3	2.5	2.5	2.5	2.2	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	2.0	1.9	1.9	2.06	2.51
21-Apr-06	1.9	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	2.0	1.9	2.0	2.0	1.95	2.05
22-Apr-06	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	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	1.99	2.06
23-Apr-06	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.2	2.2	2.1	2.2	2.2	2.08	2.18
24-Apr-06	2.2	2.2	2.2	2.3	2.3	2.3	2.4	2.4	2.2	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	2.0	2.10	2.41
25-Apr-06	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	1.9	1.98	2.08
26-Apr-06	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.95	2.01
27-Apr-06	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	1.9	A	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.3	2.4	2.4	2.02	2.42
28-Apr-06	2.6	2.5	2.2	2.1	2.2	2.1	2.2	2.2	2.1	2.1	2.0	A	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.07	2.62
29-Apr-06	2.0	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.2	1.9	1.9	1.94	2.18
30-Apr-06	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	A	2.0	2.0	2.1	2.0	2.1	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.0	2.0	1.99	2.08
Hourly Avg	2.06	2.07	2.07	2.08	2.07	2.08	2.09	2.07	2.03	2.00	1.99	1.98	1.97	1.97	1.96	1.96	1.96	1.97	1.98	2.02	2.06	2.03	2.04	2.04		
Hourly Max	2.62	2.47	2.57	2.83	2.77	2.85	2.82	2.39	2.31	2.36	2.27	2.22	2.11	2.06	2.08	2.10	2.07	2.18	2.07	2.47	2.69	2.33	2.70	2.42		

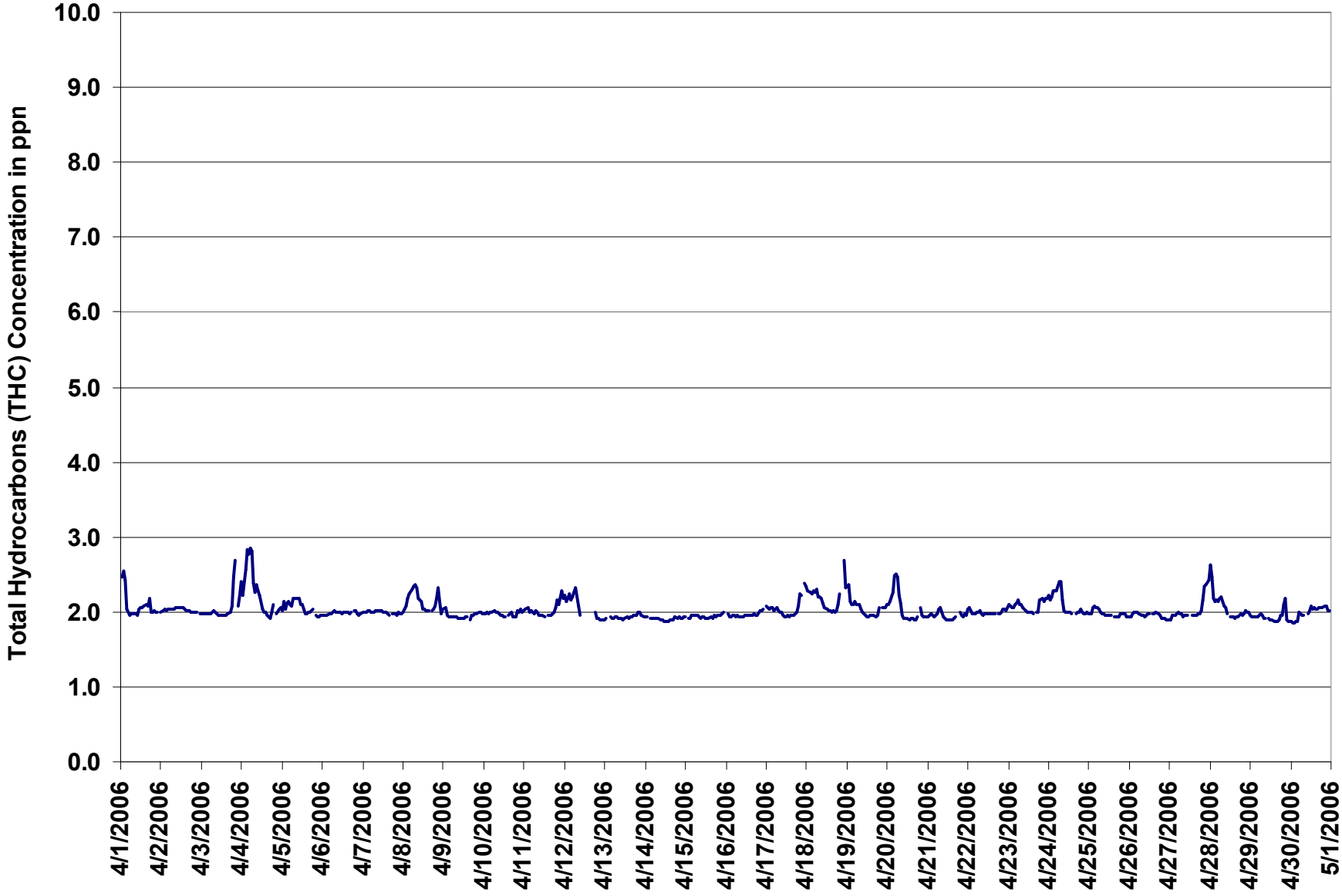


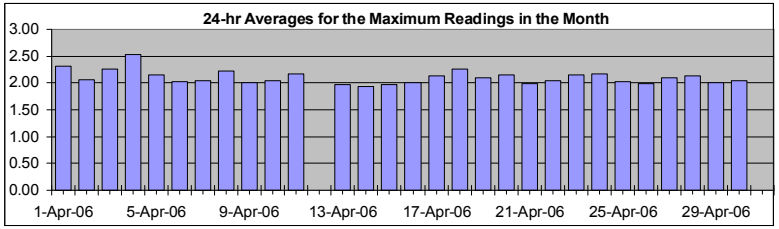
Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend

Station: Cresent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Hydrocarbons (THC)

Monitoring Dates: April 1, 2006 to May 1, 2006



Summary

Maximum 1-hr Value:	4.3	ppm	4-Apr	0:00 1:00
Maximum 24-hr Value:	2.5	ppm	4-Apr	

AIC Time:	32 hrs	Operational Time:	681 hrs
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	3.3	2.5	2.1	2.0	2.0	1.9	1.9	2.1 ppm	2.0 ppm

Status Flag Characters

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

Day **Mountain Standard Time**

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-Apr-06	A	4.3	3.3	3.0	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	3.1	2.0	2.1	2.1	2.0	2.1	A	2.32	4.27
2-Apr-06	2.0	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.06	2.12
3-Apr-06	2.0	2.0	2.0	2.0	2.0	2.0	2.4	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.4	3.4	3.3	A	2.1	4.0	2.26	4.03
4-Apr-06	4.3	2.5	3.4	3.4	3.1	3.0	3.2	2.6	2.5	2.4	2.4	2.3	2.2	2.1	2.0	2.0	2.0	1.9	2.1	2.2	A	2.0	2.1	2.1	2.52	4.28
5-Apr-06	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.1	2.2	2.1	2.0	2.1	2.0	2.1	2.5	A	2.0	2.0	2.0	2.0	2.15	2.53
6-Apr-06	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.1	A	2.0	2.1	2.0	2.0	2.0	2.02	2.07
7-Apr-06	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.1	2.0	2.0	2.03	2.13
8-Apr-06	2.0	2.1	2.2	2.2	2.3	2.4	2.4	2.4	2.5	2.2	2.2	2.2	2.1	2.1	2.1	2.1	A	2.1	2.1	2.1	2.5	2.6	2.3	2.0	2.22	2.55
9-Apr-06	2.1	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	A	1.9	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.00	2.16
10-Apr-06	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	A	2.1	2.0	2.0	2.0	2.0	2.3	2.0	2.1	2.0	2.04	2.32
11-Apr-06	2.1	2.1	2.1	2.0	2.1	2.1	2.0	2.1	2.1	2.0	2.1	2.0	2.0	A	2.0	2.0	2.0	2.1	2.0	2.2	3.7	2.2	2.4	2.3	2.16	3.73
12-Apr-06	2.3	2.2	2.3	2.4	2.2	2.4	2.4	2.4	2.2	2.0	C	C	C	C	C	C	C	A	2.1	2.0	2.0	1.9	1.9	2.0	N	2.42
13-Apr-06	1.9	1.9	A	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.97	2.04
14-Apr-06	2.0	2.0	A	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	1.9	2.0	2.0	2.0	1.9	1.9	2.0	1.94	1.98
15-Apr-06	2.0	A	1.9	1.9	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	1.98	2.06
16-Apr-06	A	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	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	A	2.00	2.11
17-Apr-06	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.6	2.9	2.3	A	2.5	2.14	2.87
18-Apr-06	2.5	2.4	2.4	2.3	2.3	2.3	2.4	2.3	2.3	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.3	A	3.0	2.4	2.26	3.00
19-Apr-06	2.4	2.5	2.2	2.1	2.2	2.2	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	A	2.1	2.1	2.1	2.10	2.51
20-Apr-06	2.1	2.1	2.3	2.7	2.7	2.6	2.7	2.5	2.2	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	A	2.2	2.0	2.0	2.0	2.16	2.71
21-Apr-06	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	A	2.1	2.0	2.0	2.1	2.0	1.99	2.15
22-Apr-06	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.1	2.0	2.1	2.1	2.1	2.1	2.05	2.14
23-Apr-06	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.3	2.4	2.3	2.2	2.2	2.15	2.39
24-Apr-06	2.3	2.2	2.3	2.3	2.3	2.4	2.6	2.6	2.2	2.1	2.0	2.0	2.1	2.0	2.0	A	2.0	2.0	2.0	2.1	2.0	2.0	2.1	2.0	2.17	2.63
25-Apr-06	2.0	2.1	2.1	2.2	2.1	2.2	2.2	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	2.0	2.0	2.03	2.16
26-Apr-06	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	1.9	2.0	2.0	2.0	A	2.0	2.0	2.1	2.0	2.0	1.9	2.0	1.9	1.9	1.9	1.99	2.05
27-Apr-06	1.9	2.0	2.0	2.0	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	2.2	2.2	2.6	2.5	2.6	2.09	2.62
28-Apr-06	2.8	2.6	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.1	2.0	A	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.13	2.83
29-Apr-06	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	A	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.4	2.4	1.9	1.9	2.00	2.44
30-Apr-06	1.9	1.9	1.9	1.9	1.9	2.1	2.0	2.0	2.0	A	2.0	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.04	2.21
Hourly Avg	2.19	2.20	2.18	2.17	2.14	2.15	2.19	2.14	2.10	2.05	2.04	2.03	2.02	2.01	2.00	2.00	2.00	2.05	2.06	2.14	2.24	2.11	2.11	2.16		
Hourly Max	4.28	4.27	3.39	3.44	3.12	3.04	3.17	2.63	2.51	2.44	2.40	2.34	2.22	2.13	2.11	2.13	2.10	3.10	2.53	3.38	3.73	2.60	3.00	4.03		

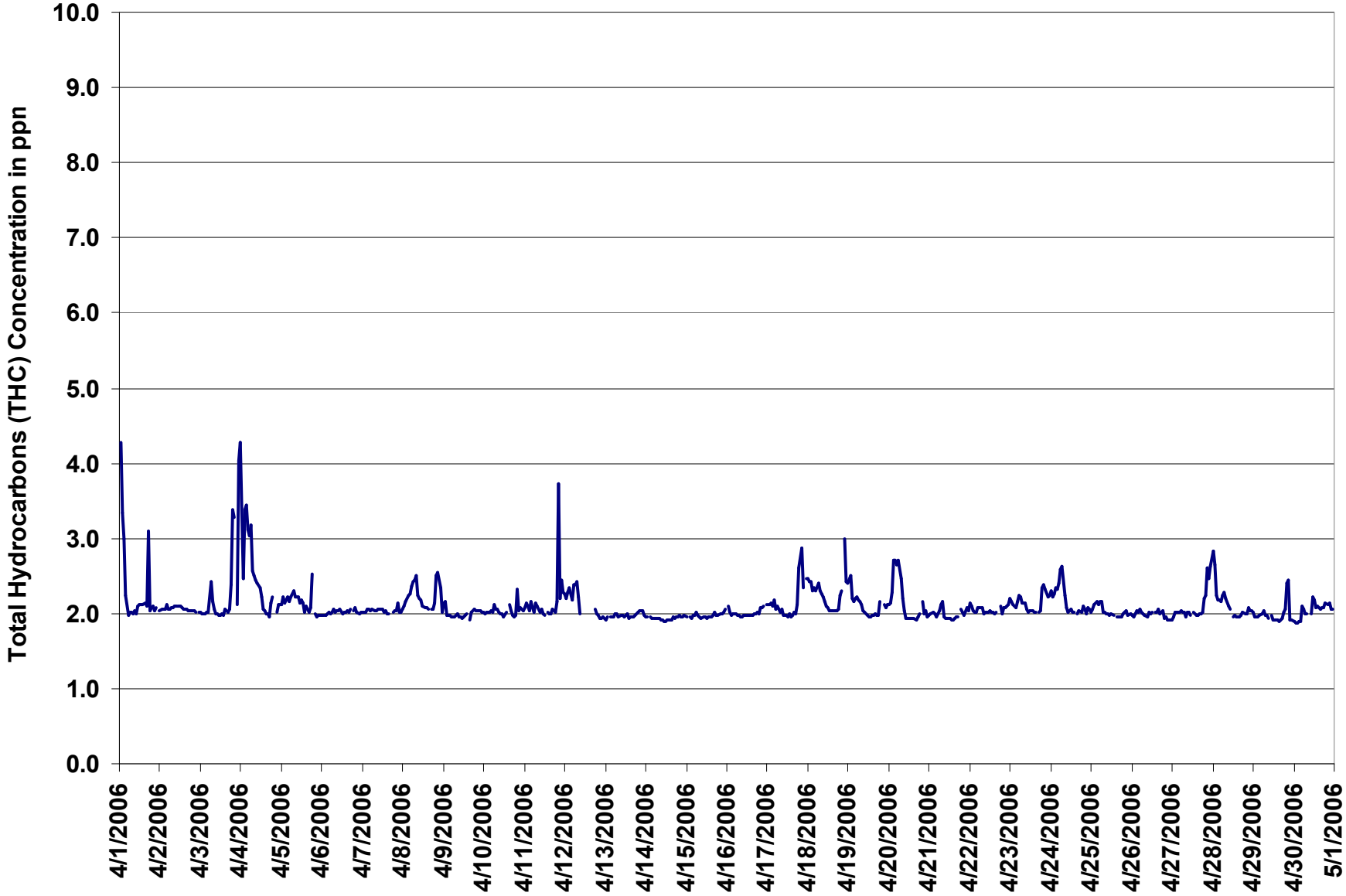
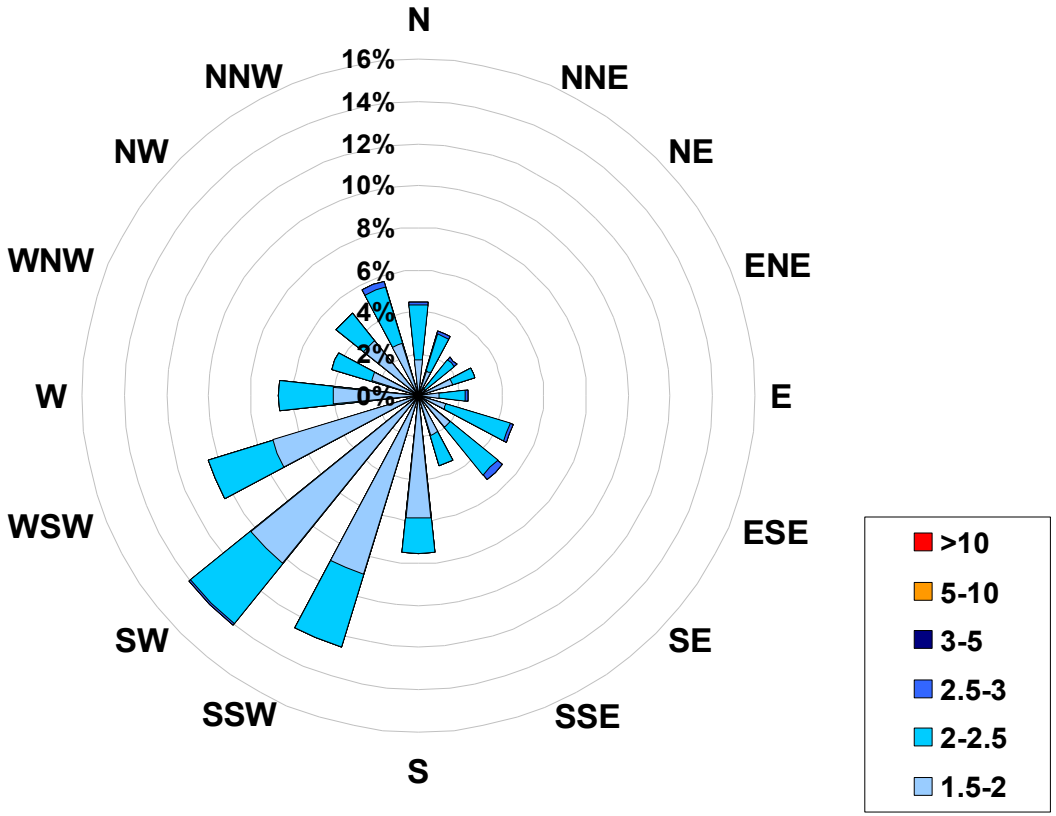


Figure 10. PAS - Crescent Heights Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Total Hydrocarbons (in ppm)
Located at the Crescent Heights Site for April 2006



Calms:	0%

Frequency Distribution of THC in ppm			
Range			Frequency (hrs)
1.5	<	2	402
2	to	2.5	269
2.5	to	3	10
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			681

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

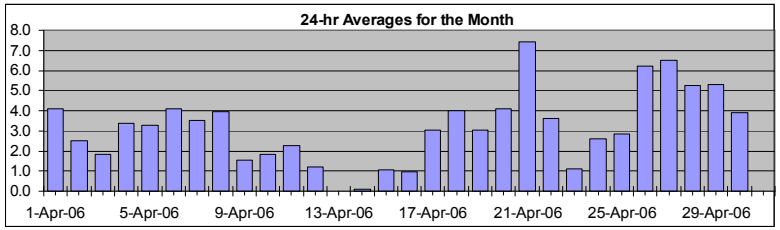
Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: April 1, 2006 to May 1, 2006

Draft Objective Limit: **Alberta Environment:** 1-hr - $\mu g/m^3$ 24-hr 30 $\mu g/m^3$



Summary

Number of 24-hr Exceedances (draft):	0			
Maximum 1-hr Average:	15.9	$\mu g/m^3$	21-Apr	19:00 20:00
Maximum 24-hr Value:	7.4	$\mu g/m^3$	21-Apr	

AIC Time:	0 hrs	Operational Time:	706 hrs
Calibration Time:	10 hrs	AMD Operational Uptime:	99.4%

Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	11.2	8.5	4.7	2.6	1.1	0.0	0.0	3.2 / 3 $\mu g/m^3$	2.6 $\mu g/m^3$

Status Flag Characters

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

Day **Mountain Standard Time**

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-Apr-06	7	8	5	7	3	3	4	3	1	2	2	3	0	3	4	6	8	6	6	5	5	3	3	2	4.1	7.8
2-Apr-06	2	3	2	2	3	3	4	4	3	5	5	3	2	2	1	1	2	0	2	2	2	1	1	2	2.5	5.0
3-Apr-06	1	3	1	0	1	2	2	4	3	1	0	0	0	0	0	1	2	2	2	4	9	5	3	0	1.8	9.0
4-Apr-06	2	1	3	1	2	4	7	6	6	6	6	4	2	2	4	6	3	2	3	4	3	2	2	1	3.3	7.1
5-Apr-06	2	2	4	2	1	1	2	4	4	7	8	4	4	1	2	2	4	5	6	2	3	4	2	2	3.3	8.1
6-Apr-06	3	3	3	4	4	6	7	6	8	7	5	4	5	4	4	4	1	0	3	6	4	3	2	3	4.1	7.6
7-Apr-06	3	2	3	3	2	3	3	4	6	5	7	5	4	4	3	2	3	3	2	2	2	3	4	5	3.5	7.1
8-Apr-06	4	2	3	3	3	4	4	5	6	6	5	5	4	3	0	0	3	3	3	6	7	12	4	1	4.0	11.5
9-Apr-06	2	1	0	0	0	0	0	0	0	1	1	0	0	0	5	1	1	4	4	7	5	3	1	0	1.5	6.6
10-Apr-06	0	D	0	0	0	0	0	2	2	0	1	0	0	0	1	5	8	1	2	3	5	5	4	2	1.8	7.9
11-Apr-06	3	3	4	4	5	2	1	3	3	2	1	2	3	2	2	0	2	2	1	2	3	3	1	0	2.2	4.8
12-Apr-06	0	1	0	1	0	2	7	5	4	0	1	3	D	D	0	0	0	0	1	2	1	0	0	0	1.2	6.7
13-Apr-06	0	0	0	0	0	2	3	2	C	C	C	C	C	C	C	C	C	C	0	0	0	0	0	0	N	3.1
14-Apr-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0.1	1.1
15-Apr-06	0	0	0	0	1	2	2	2	0	0	0	0	1	1	2	2	3	2	1	0	2	1	2	1	1.0	3.1
16-Apr-06	1	1	1	1	2	1	0	0	0	0	0	1	0	0	0	0	1	0	1	1	2	2	3	3	1.0	3.4
17-Apr-06	2	2	2	2	3	5	5	3	4	3	1	1	0	0	2	2	3	2	4	5	4	5	5	7	3.0	7.0
18-Apr-06	6	5	4	4	7	6	8	6	6	4	1	0	0	0	0	1	2	2	1	6	5	6	9	6	4.0	9.3
19-Apr-06	7	5	2	1	2	5	4	6	4	3	1	0	0	0	1	2	3	2	1	5	6	6	5	3	3.0	6.8
20-Apr-06	3	1	2	3	4	5	5	6	6	2	3	2	2	3	3	3	4	5	5	11	10	4	4	4	4.1	10.7
21-Apr-06	5	4	3	3	3	4	5	7	7	4	5	5	13	9	8	9	12	11	11	16	11	9	8	8	7.4	15.9
22-Apr-06	8	7	6	7	7	4	4	2	3	3	3	4	3	3	1	2	3	3	2	2	3	2	1	2	3.6	8.0
23-Apr-06	2	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	2	2	2	4	2	1.1	3.5
24-Apr-06	2	1	1	1	1	3	8	6	1	D	0	0	0	0	0	2	2	8	5	7	6	3	2	1	2.6	7.7
25-Apr-06	1	1	2	2	1	3	3	2	2	3	2	4	4	4	4	5	4	3	2	3	4	3	2	3	2.9	5.0
26-Apr-06	2	2	2	2	3	4	5	6	6	6	5	7	9	8	7	7	7	8	8	9	9	8	9	9	6.2	9.3
27-Apr-06	8	8	9	9	9	9	10	9	8	9	10	2	1	1	1	3	4	4	5	7	7	7	7	9	6.5	9.8
28-Apr-06	9	7	5	6	5	6	8	9	9	7	4	4	3	3	2	3	3	3	4	7	6	5	4	4	5.3	9.1
29-Apr-06	3	3	3	6	7	8	9	9	6	6	5	5	2	3	3	3	2	4	4	6	12	13	2	4	5.3	13.4
30-Apr-06	5	5	4	5	7	14	7	6	6	6	8	5	0	0	0	0	1	3	3	3	3	2	0	1	3.9	13.7
Hourly Avg	3.0	2.9	2.6	2.7	2.8	3.7	4.3	4.3	4.0	3.5	3.1	2.4	2.2	2.0	2.1	2.4	3.1	3.0	3.2	4.5	4.7	4.0	3.1	2.9		
Hourly Max	9.1	8.3	9.4	8.8	9.2	13.7	9.8	9.4	8.6	9.2	9.6	6.6	12.8	8.6	7.6	8.5	11.9	11.2	11.0	15.9	11.9	13.4	9.3	9.3		

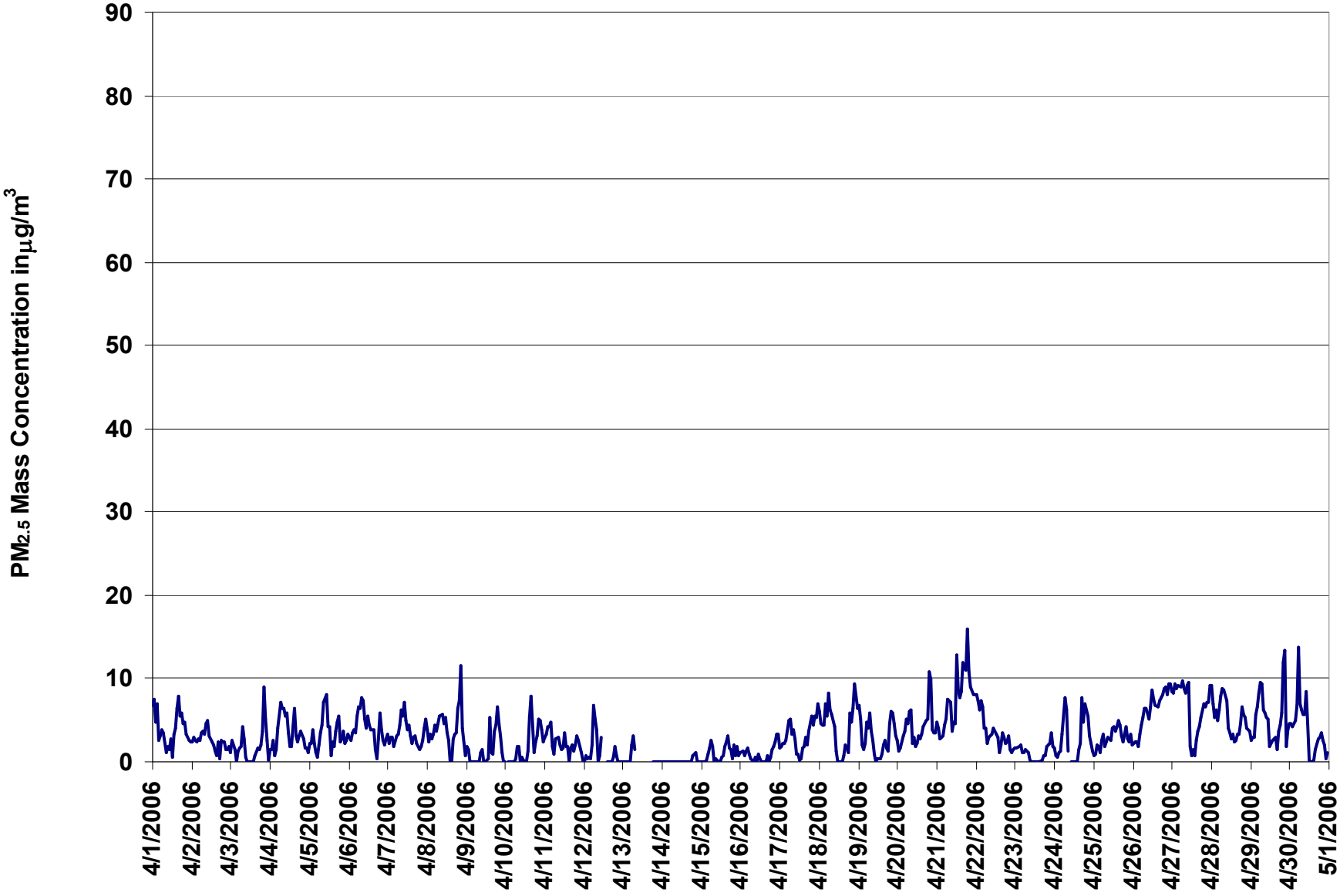


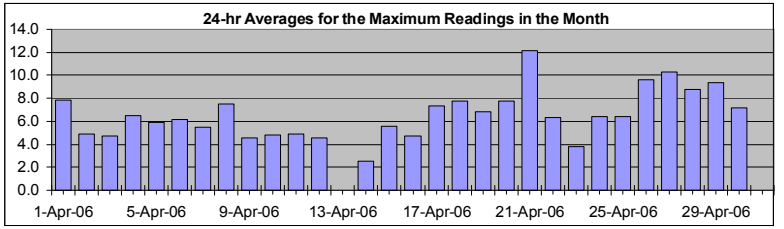
Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Cresent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: April 1, 2006 to May 1, 2006



Summary

Maximum 1-hr Average:	36.4	µg/m³	21-Apr	12:00 13:00
Maximum 24-hr Value:	12.1	µg/m³	21-Apr	

AIC Time:	0 hrs	Operational Time:	706 hrs
Calibration Time:	10 hrs	AMD Operational Uptime:	99.4%

Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	19.6	12.9	8.3	5.7	4.0	2.0	0.3	6.5 6 µg/m˘	6.3 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-Apr-06	13	11	9	13	4	5	11	9	3	4	3	6	3	11	8	12	12	14	10	7	6	6	5	4	7.8	14.2
2-Apr-06	4	5	5	3	5	4	6	5	5	6	8	5	5	5	4	3	9	5	5	4	5	3	3	3	4.9	8.8
3-Apr-06	3	4	4	2	3	4	3	6	6	2	5	2	5	4	3	3	5	4	5	8	14	9	6	3	4.7	14.4
4-Apr-06	3	3	5	3	4	8	10	12	12	10	11	8	5	3	8	10	6	7	7	5	5	4	4	3	6.5	12.0
5-Apr-06	4	4	6	6	3	3	4	6	10	11	10	7	7	3	4	4	7	7	7	5	5	7	7	4	5.9	10.9
6-Apr-06	5	5	8	5	5	7	8	8	10	9	7	7	8	6	5	7	3	3	4	8	6	4	3	5	6.2	10.0
7-Apr-06	5	4	4	5	3	5	5	7	8	7	10	8	6	6	6	4	5	5	4	3	4	4	6	6	5.5	9.8
8-Apr-06	7	4	6	7	5	10	7	8	9	8	7	9	7	6	4	4	6	5	5	8	20	20	7	2	7.5	19.7
9-Apr-06	4	5	2	1	0	0	0	1	3	3	6	6	1	5	9	8	5	7	11	12	7	5	3	5	4.5	11.8
10-Apr-06	1	D	0	2	0	1	3	4	4	1	3	5	3	3	6	19	17	4	5	5	9	7	6	4	4.8	19.2
11-Apr-06	6	5	6	6	7	5	3	5	5	5	3	5	7	7	4	3	4	4	3	6	6	5	4	2	4.9	7.4
12-Apr-06	1	3	2	3	2	6	9	11	10	4	5	8	D	D	4	3	4	2	6	9	4	0	1	2	4.5	11.1
13-Apr-06	3	2	1	2	3	4	6	5	C	C	C	C	C	C	C	C	C	C	0	2	5	2	1	2	N	5.9
14-Apr-06	1	2	0	1	0	1	2	1	2	3	3	2	3	2	1	2	3	4	5	5	6	4	5	3	2.5	6.1
15-Apr-06	3	2	4	4	4	5	5	5	5	5	5	5	6	7	7	7	8	7	7	5	7	7	7	5	5.6	8.5
16-Apr-06	5	4	4	5	5	5	3	3	3	4	4	6	5	4	4	5	6	3	5	5	6	7	7	6	4.8	7.2
17-Apr-06	5	5	5	6	8	9	8	9	8	6	5	5	5	6	6	6	7	8	14	9	8	9	8	11	7.3	14.1
18-Apr-06	11	8	7	6	10	8	11	9	9	9	5	4	6	5	5	5	8	6	5	11	8	12	14	9	7.8	13.5
19-Apr-06	9	7	3	3	4	13	6	8	6	7	5	6	8	6	7	7	8	7	5	9	9	8	7	6	6.9	12.8
20-Apr-06	5	3	4	6	5	7	8	12	10	7	7	7	7	8	8	8	9	9	9	15	14	6	5	6	7.7	15.0
21-Apr-06	7	6	4	5	6	7	7	12	13	9	11	10	36	14	13	14	16	15	15	22	15	13	11	10	12.1	36.4
22-Apr-06	10	10	9	11	10	9	9	5	6	6	6	6	6	5	3	4	6	5	5	6	5	3	3	4	6.3	10.7
23-Apr-06	4	3	4	4	2	3	4	3	5	4	3	4	3	3	3	3	4	5	4	5	3	5	5	4	3.8	5.5
24-Apr-06	3	2	2	2	3	7	11	11	5	D	3	6	4	4	5	7	8	25	7	10	8	5	4	4	6.4	25.4
25-Apr-06	3	3	5	5	3	6	5	5	6	8	7	10	10	9	10	10	9	6	5	6	7	5	5	6	6.4	10.4
26-Apr-06	4	4	4	4	6	7	8	9	9	11	10	11	15	14	13	12	11	11	11	12	12	11	12	11	9.6	14.8
27-Apr-06	11	10	12	11	11	11	11	12	14	13	13	8	3	5	5	7	7	11	8	9	8	15	14	17	10.3	16.6
28-Apr-06	15	9	8	9	7	9	11	11	12	14	10	8	8	7	8	8	7	6	7	10	8	7	6	6	8.8	14.8
29-Apr-06	5	5	5	8	9	11	12	12	10	10	10	11	7	9	8	8	7	6	8	9	21	24	5	7	9.4	24.3
30-Apr-06	7	7	7	8	17	22	10	8	10	8	11	8	4	3	3	2	5	5	5	6	6	4	3	3	7.1	22.3
Hourly Avg	5.6	5.0	4.9	5.2	5.2	6.7	6.9	7.5	7.4	7.0	6.7	6.6	6.8	6.2	6.0	6.7	7.3	7.1	6.6	7.8	8.2	7.4	5.9	5.5		
Hourly Max	14.8	11.2	12.0	12.7	17.2	22.3	11.5	12.0	13.6	14.4	13.1	10.9	36.4	14.4	12.9	19.2	16.8	25.4	14.9	22.2	20.9	24.3	13.8	16.6		

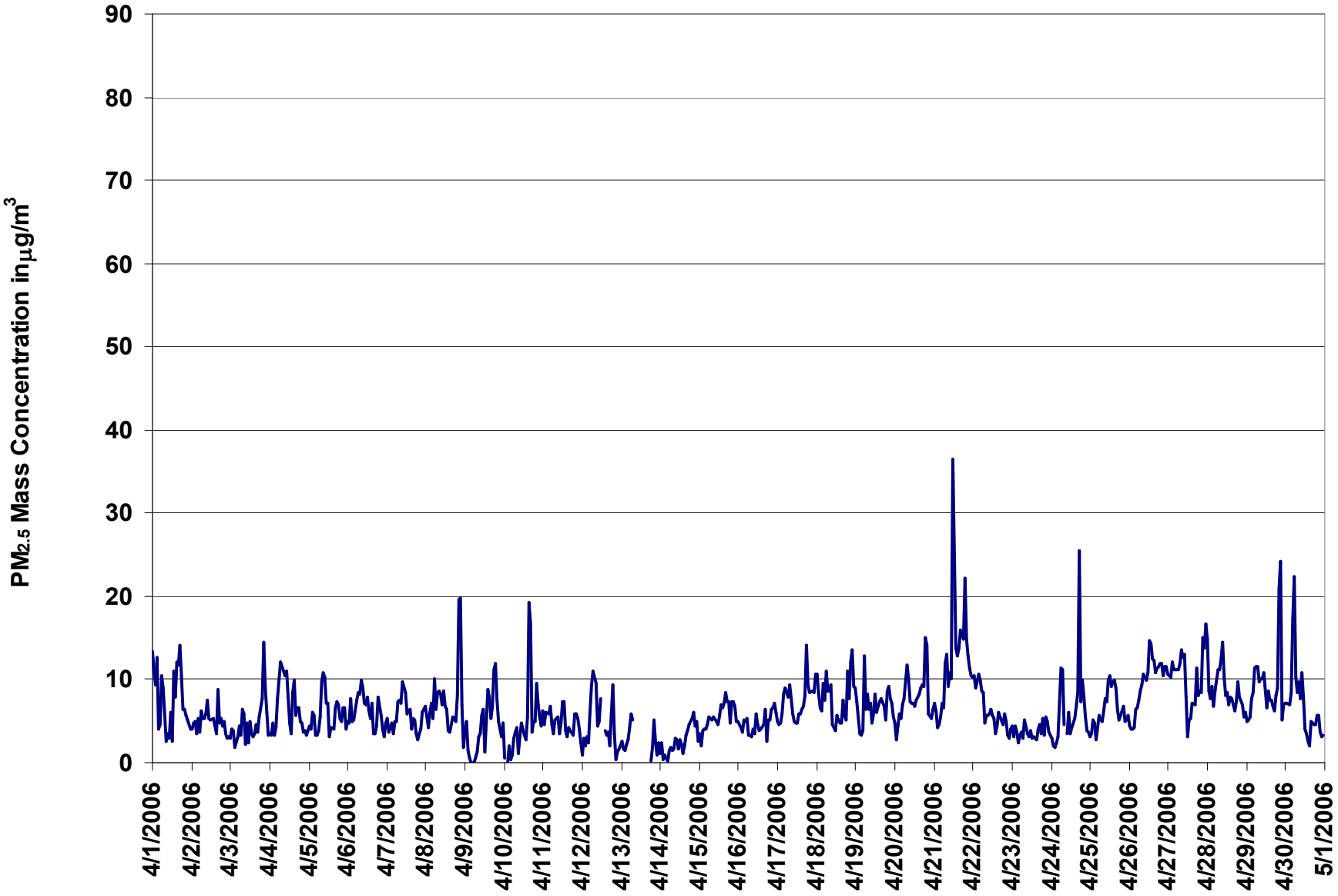
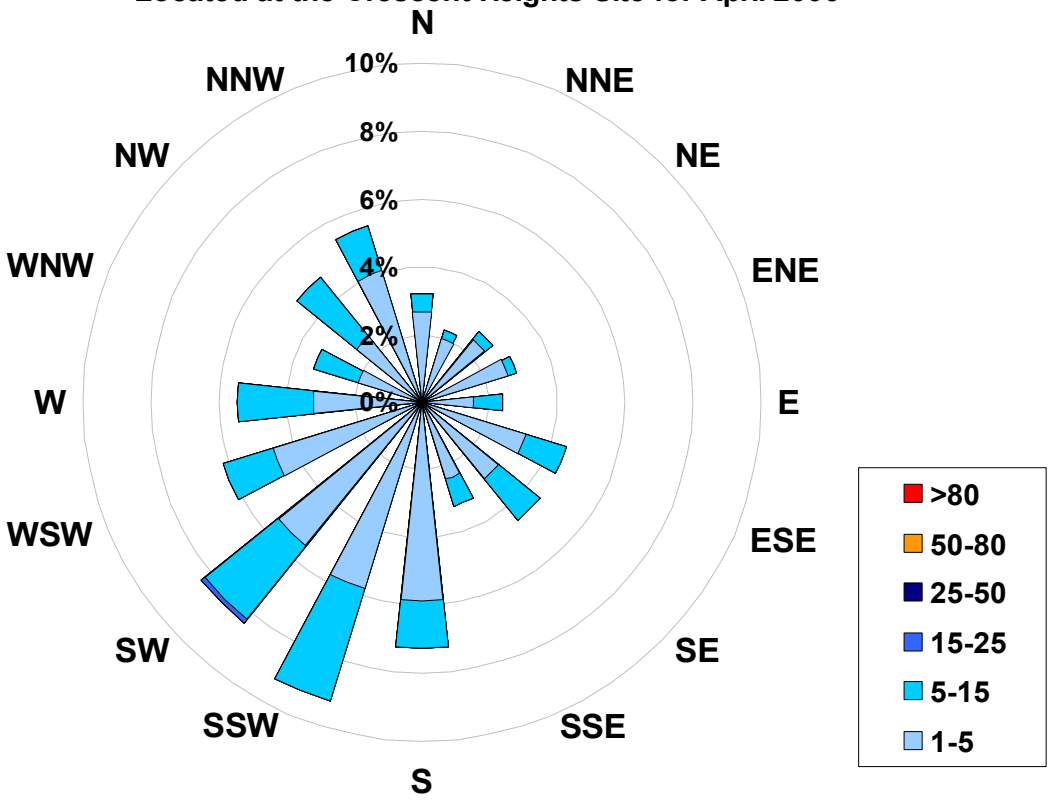


Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Crescent Heights Site for April 2006



Calms:	0%

Frequency Distribution of $PM_{2.5}$ in $\mu g/m^3$			
Range			Frequency (hrs)
1.0	<	5	544
5	to	15	161
15	to	25	1
25	to	50	0
50	to	80	0
	>	80	0
Total Non-Zero Values			706

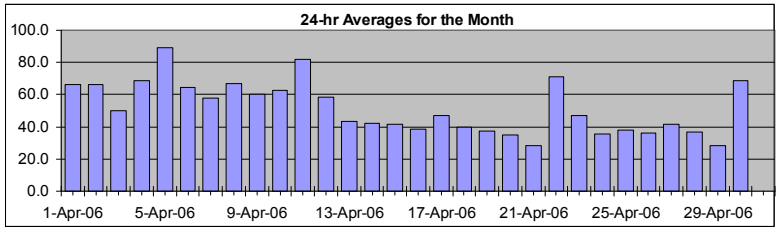
PAS - Crescent Heights - Relative Humidity Monthly Summary

Station: Cresent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2006 to May 1, 2006

HOURLY AVERAGE TABLE

Relative Humidity (RH)



Summary

Maximum 1-hr Average:	94.3	%	5-Apr	8:00 9:00
Maximum 24-hr Value:	89.2	%	5-Apr	

AIC Time:	0 hrs	Operational Time:	720 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	93.7	87.3	69.6	51.9	32.4	16.7	12.3	51.6 %	51.9 %

Status Flag Characters

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

Day **Mountain Standard Time**

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-Apr-06	66	70	75	78	79	76	79	76	70	62	57	50	44	42	44	43	44	48	70	79	81	84	85	85	66.1	85.1
2-Apr-06	85	86	86	86	86	87	89	90	86	80	67	57	48	44	41	39	42	42	44	51	60	63	66	65	66.3	90.4
3-Apr-06	63	68	73	72	69	68	68	63	56	48	37	31	30	28	27	28	30	33	36	40	48	60	64	61	50.1	72.9
4-Apr-06	67	69	73	75	76	78	75	69	65	60	53	49	44	42	43	55	60	69	81	85	90	92	92	92	68.8	92.1
5-Apr-06	92	92	93	93	94	94	94	94	94	94	94	94	93	88	86	81	80	86	90	85	82	82	82	82	89.2	94.3
6-Apr-06	81	81	80	80	81	82	84	84	82	79	71	58	51	51	50	49	44	38	41	52	55	58	59	59	64.7	84.3
7-Apr-06	64	67	68	62	53	53	54	55	56	52	58	64	56	54	54	53	53	55	56	57	58	60	61	67	57.9	67.8
8-Apr-06	78	83	85	87	88	89	87	84	77	70	62	57	53	51	44	41	45	48	51	56	60	67	71	76	67.1	89.0
9-Apr-06	80	81	78	71	67	65	61	58	51	51	51	49	46	42	47	46	41	44	50	69	77	78	74	70	60.4	81.2
10-Apr-06	71	71	70	72	74	76	73	69	59	50	48	45	42	40	40	44	63	58	60	63	67	75	84	87	62.6	87.3
11-Apr-06	88	89	89	88	89	86	85	84	82	80	75	71	75	79	81	80	73	72	76	80	86	86	88	89	82.2	89.5
12-Apr-06	90	90	89	90	89	89	81	72	64	48	43	43	36	29	31	31	34	37	40	42	48	56	63	61	58.2	90.0
13-Apr-06	59	60	60	58	57	59	61	51	42	40	38	35	32	30	25	24	26	28	31	37	45	47	48	50	43.4	61.3
14-Apr-06	54	52	50	49	48	50	52	48	45	43	38	33	30	28	26	25	27	32	36	41	49	49	51	53	42.1	54.4
15-Apr-06	55	57	58	56	62	64	65	60	50	40	36	32	31	26	24	25	27	29	27	27	31	34	41	48	41.8	64.7
16-Apr-06	59	65	66	64	69	68	63	54	40	34	26	24	26	23	21	20	19	17	17	21	27	31	35	40	38.7	69.0
17-Apr-06	55	62	64	63	64	72	75	71	68	62	51	39	34	27	24	25	25	24	23	29	36	42	46	54	47.3	74.8
18-Apr-06	57	60	62	64	67	70	69	65	58	47	30	22	18	15	15	13	13	12	14	21	28	35	43	52	39.6	69.8
19-Apr-06	58	57	56	60	64	65	57	51	43	34	26	19	16	16	15	16	16	15	17	20	28	42	47	51	37.1	65.5
20-Apr-06	53	55	54	57	61	69	57	47	41	29	24	21	19	19	18	17	16	15	17	27	36	32	29	29	35.1	69.4
21-Apr-06	35	43	44	40	39	45	45	39	32	22	20	17	16	16	17	15	12	13	18	25	24	31	33	40	28.4	45.3
22-Apr-06	46	51	55	57	67	72	73	73	71	67	69	73	83	84	84	83	85	83	79	73	74	68	65	65	70.9	85.4
23-Apr-06	70	73	72	73	75	77	72	66	60	53	39	27	27	22	21	20	20	21	22	28	32	42	56	63	47.1	77.3
24-Apr-06	66	69	71	73	72	71	63	53	41	18	14	14	12	10	12	12	12	11	12	19	25	30	35	39	35.6	73.1
25-Apr-06	38	44	54	56	54	53	49	43	36	32	29	23	20	19	16	19	25	28	32	38	46	53	48	49	37.7	56.2
26-Apr-06	55	56	62	62	62	61	52	47	44	35	24	20	20	19	19	20	20	20	22	26	30	30	33	37	36.4	62.5
27-Apr-06	41	39	39	42	45	52	57	56	52	52	60	61	42	32	26	21	21	22	23	34	39	42	44	51	41.3	61.2
28-Apr-06	59	61	61	63	62	60	55	47	40	31	23	19	17	17	16	15	15	16	18	26	35	42	44	37	36.6	62.8
29-Apr-06	30	28	28	29	31	34	39	38	32	31	28	25	20	18	18	16	15	19	22	26	35	46	34	33	28.1	45.6
30-Apr-06	32	34	34	34	35	58	71	71	70	70	77	85	87	85	82	80	79	81	82	82	81	81	79	75	68.6	86.8
Hourly Avg	61.6	63.8	64.9	65.1	66.0	68.2	66.9	62.7	56.9	50.5	45.5	42.0	39.0	36.5	35.6	35.2	36.1	37.3	40.3	45.3	50.3	54.6	56.7	58.7		
Hourly Max	91.7	92.0	92.8	93.3	93.8	94.0	94.1	94.3	94.3	94.3	94.2	93.9	93.4	88.0	86.4	82.8	85.4	86.3	89.9	85.4	89.5	91.7	92.1	91.6		

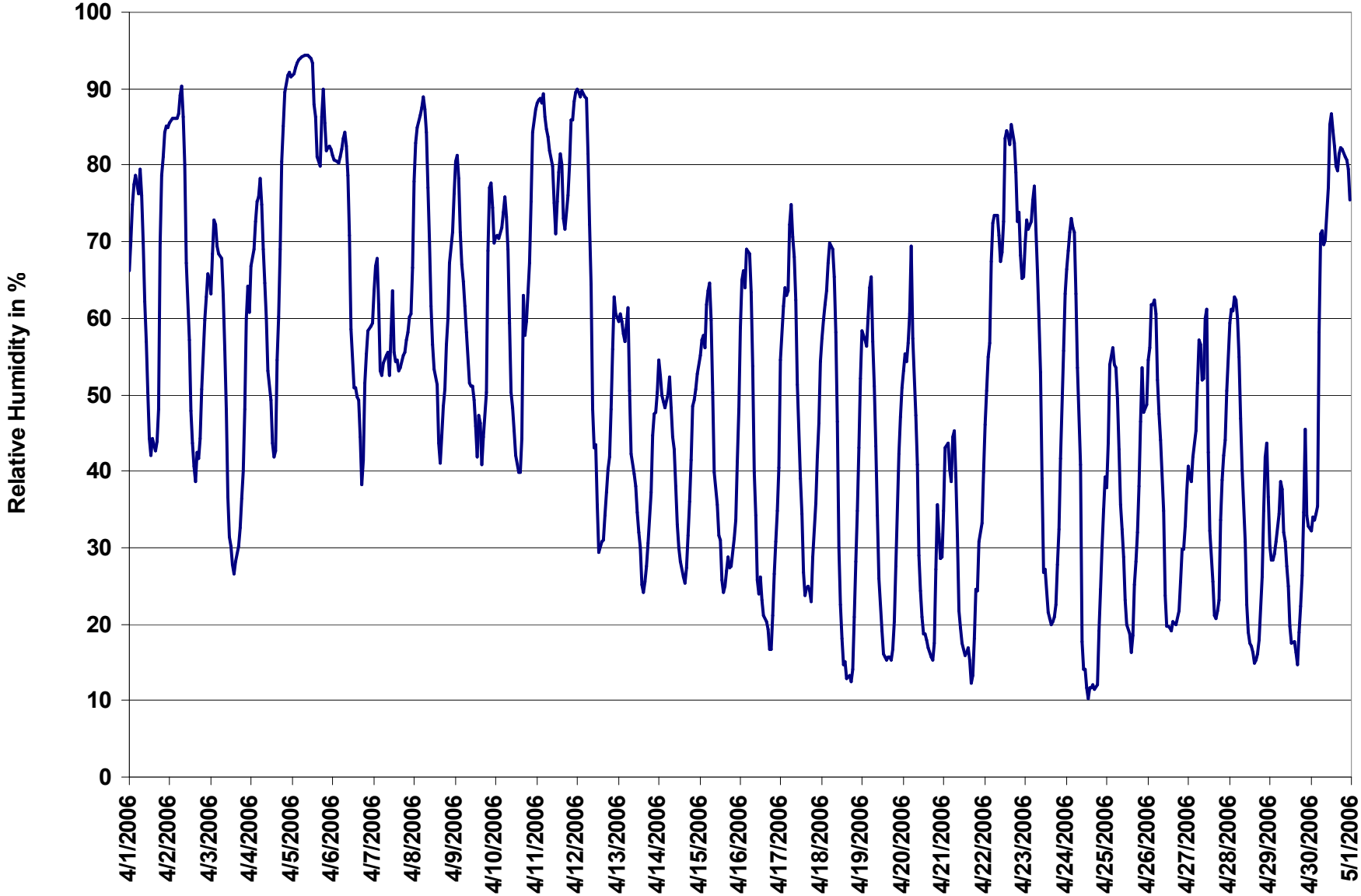


Figure 13. PAS - Crescent Heights Relative Humidity 1-hr Average Monthly Trend

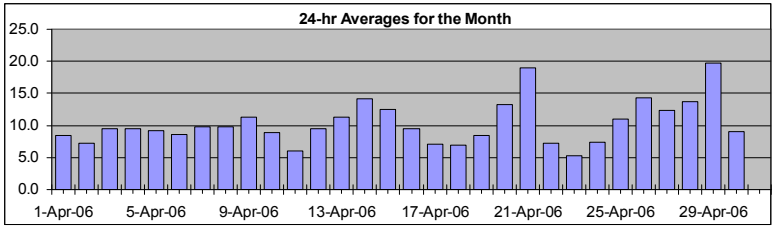
PAS - Crescent Heights - Temperature Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: April 1, 2006 to May 1, 2006



Summary

Maximum 1-hr Average:	27.7	°C	29-Apr	15:00 16:00
Maximum 24-hr Value:	19.7	°C	29-Apr	

AIC Time:	0 hrs	Operational Time:	720 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average	Median
	26.2	20.8	14.0	9.9	6.2	1.2	-1.0	10.3 °C	9.9 °C

Status Flag Characters

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

Day **Mountain Standard Time**

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-Apr-06	7	6	5	5	5	5	4	5	7	9	11	13	13	14	14	14	14	13	10	7	6	6	5	5	8.5	14.2
2-Apr-06	5	4	4	4	4	3	2	2	3	4	7	9	11	13	13	13	12	12	11	9	7	7	6	6	7.2	13.4
3-Apr-06	7	6	5	5	4	4	4	6	9	11	12	13	14	15	15	15	15	14	12	11	10	8	7	7	9.5	15.2
4-Apr-06	6	5	4	3	3	2	3	6	8	10	12	15	15	16	16	15	15	13	11	11	10	10	9	9	9.5	16.5
5-Apr-06	9	8	8	8	8	8	7	8	8	8	9	9	9	10	10	11	11	11	11	11	11	10	10	9	9.3	11.1
6-Apr-06	9	8	8	7	7	6	5	5	6	6	7	9	11	11	11	11	12	12	12	11	10	8	8	7	8.6	12.3
7-Apr-06	6	5	4	5	7	7	6	7	8	10	10	10	11	13	13	14	14	13	13	13	12	11	11	10	9.7	13.9
8-Apr-06	7	6	5	4	3	2	3	4	6	10	12	15	16	16	17	16	15	15	14	13	11	10	9	9	9.9	16.7
9-Apr-06	8	8	8	9	8	8	8	9	11	13	14	13	14	15	15	16	17	15	14	11	10	9	9	9	11.3	16.6
10-Apr-06	7	6	5	4	3	2	3	4	8	10	12	13	14	15	16	15	12	12	11	10	9	8	6	6	8.9	15.8
11-Apr-06	5	5	5	5	6	6	5	5	6	7	8	9	8	8	7	7	8	8	8	6	5	5	4	2	6.1	8.5
12-Apr-06	1	1	0	0	-1	0	3	6	10	13	14	15	17	17	17	16	16	15	15	14	12	10	9	9	9.5	17.1
13-Apr-06	9	8	8	8	8	8	8	10	11	13	13	15	15	15	16	16	16	14	13	11	9	8	9	9	11.2	16.2
14-Apr-06	9	10	11	11	11	11	11	12	14	15	17	18	18	20	20	20	19	17	16	14	13	12	11	11	14.2	20.1
15-Apr-06	10	10	9	9	8	7	7	9	12	14	15	16	16	18	18	18	17	15	14	13	13	12	10	9	12.5	18.1
16-Apr-06	7	7	7	7	7	7	8	8	10	11	11	12	13	14	14	13	13	11	10	9	8	8	7	6	9.6	13.9
17-Apr-06	5	5	5	5	5	4	4	5	5	6	8	10	10	11	11	11	11	11	11	9	7	5	4	2	7.1	11.2
18-Apr-06	1	0	0	0	-1	-2	-1	1	5	8	12	13	14	14	14	14	14	14	13	10	8	6	4	2	6.9	14.4
19-Apr-06	0	0	0	0	-1	-1	1	4	8	11	14	15	15	16	16	17	17	17	15	13	10	6	5	4	8.5	16.9
20-Apr-06	3	3	2	2	1	1	4	7	12	16	18	19	21	21	22	23	23	23	22	18	15	14	14	14	13.3	23.3
21-Apr-06	13	10	11	11	12	10	11	14	18	22	23	24	26	26	27	27	27	26	24	22	21	20	18	16	19.0	27.0
22-Apr-06	14	12	11	11	9	8	7	7	8	8	8	7	6	6	5	6	6	6	6	6	5	5	4	3	7.3	13.8
23-Apr-06	1	0	1	1	0	-1	1	2	4	6	7	8	9	10	11	11	11	11	10	9	7	5	2	1	5.3	11.2
24-Apr-06	-1	-2	-2	-3	-3	-3	0	3	7	10	11	12	14	14	15	15	16	15	14	11	9	8	7	6	7.3	15.6
25-Apr-06	6	5	2	2	3	3	5	8	10	12	13	15	16	17	18	18	18	18	17	15	12	9	11	10	11.0	18.2
26-Apr-06	9	8	7	6	6	6	9	11	12	15	18	19	19	20	20	21	21	21	19	18	16	15	14	14	14.4	21.0
27-Apr-06	13	13	12	11	11	9	9	11	12	12	11	10	13	15	17	18	17	17	16	13	11	9	8	7	12.3	17.6
28-Apr-06	6	4	3	3	3	3	6	9	13	17	19	20	22	22	23	23	23	22	21	18	14	12	10	12	13.7	23.1
29-Apr-06	14	14	14	13	13	12	12	15	19	20	23	25	26	27	27	28	27	25	24	22	20	17	17	17	19.7	27.7
30-Apr-06	17	17	17	17	16	13	9	8	9	9	9	8	6	6	5	6	6	6	6	6	6	6	5	6	9.0	17.2
Hourly Avg	7.0	6.4	6.0	5.8	5.5	5.0	5.5	7.1	9.3	11.2	12.6	13.6	14.5	15.2	15.5	15.6	15.4	14.7	13.8	12.1	10.6	9.3	8.5	7.8		
Hourly Max	17.2	17.0	16.8	16.6	16.4	12.7	12.4	15.4	18.8	21.6	23.5	24.7	26.1	27.1	26.8	27.7	27.5	25.6	24.3	22.3	20.8	19.7	18.1	17.2		

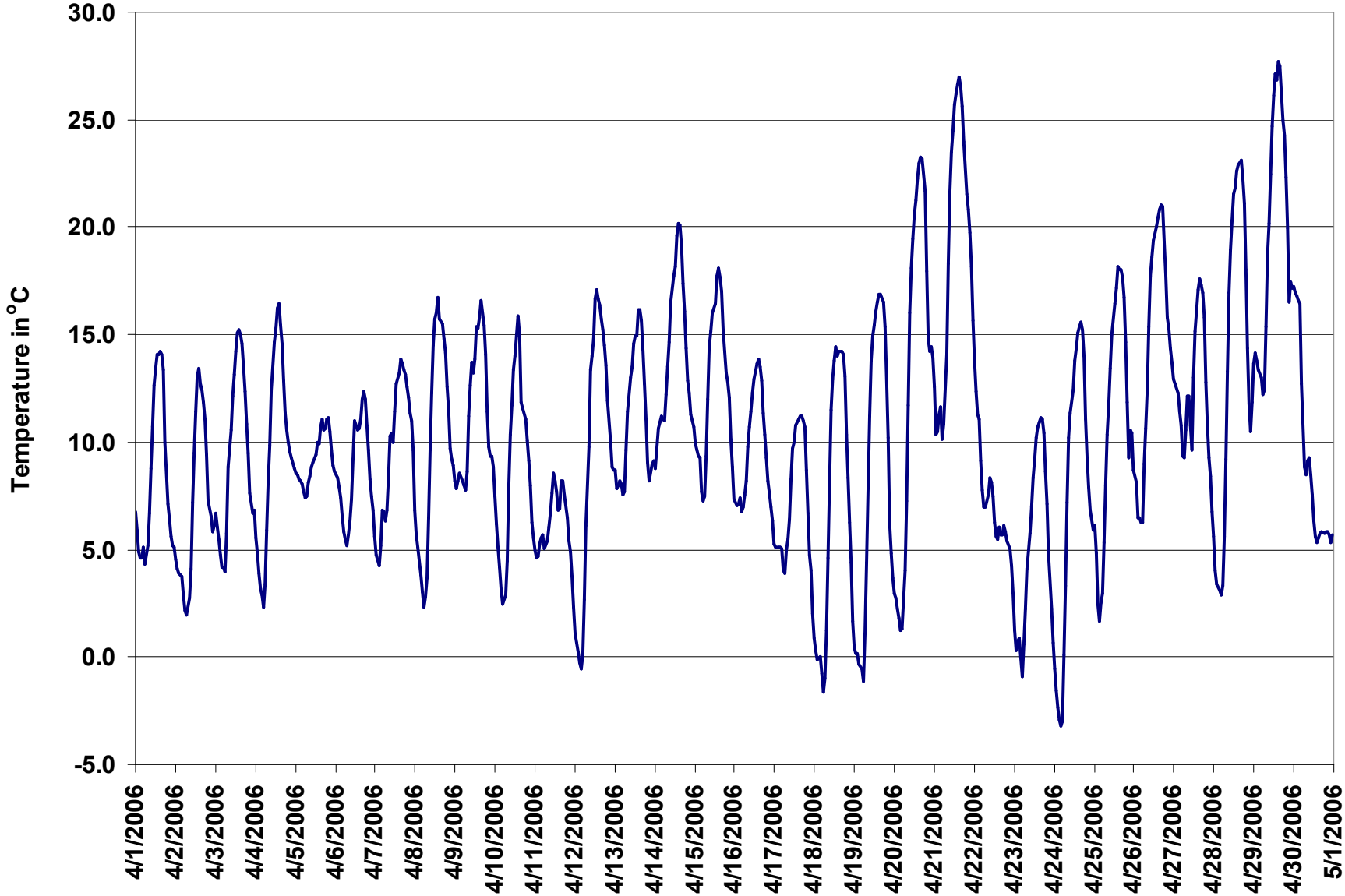


Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend

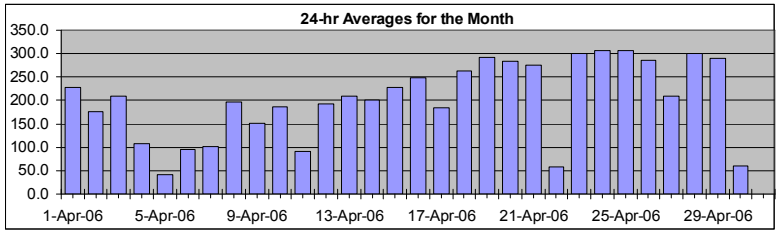
PAS - Crescent Heights - Solar Radiation Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Solar Radiation (SR)

Monitoring Dates: April 1, 2006 to May 1, 2006



Summary

Maximum 1-hr Average:	873.7	W/m²	24-Apr	12:00 13:00
Maximum 24-hr Value:	307.2	W/m²	24-Apr	

AIC Time:	0 hrs	Operational Time:	720 hrs	
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%	

Percentile	99	95	75	50	25	5	1	Average	Median
	850.9	768.2	347.4	46.2	0.0	0.0	0.0	202.7 W/m²	46.2 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-Apr-06	0	0	0	0	0	0	26	82	268	494	650	732	758	723	648	532	347	176	41	0	0	0	0	0	228.2	757.8
2-Apr-06	0	0	0	0	0	0	9	45	93	184	588	731	730	699	568	235	197	103	30	0	0	0	0	0	175.6	731.3
3-Apr-06	0	0	0	0	0	1	63	225	392	543	646	698	717	683	476	331	182	73	15	0	0	0	0	0	210.2	716.9
4-Apr-06	0	0	0	0	0	2	80	179	225	275	392	304	247	306	212	191	118	55	10	0	0	0	0	0	108.2	392.5
5-Apr-06	0	0	0	0	0	0	8	28	71	77	87	101	117	106	91	155	110	37	12	0	0	0	0	0	41.7	154.9
6-Apr-06	0	0	0	0	0	0	12	79	130	167	222	356	305	208	225	194	218	138	29	0	0	0	0	0	95.1	355.9
7-Apr-06	0	0	0	0	0	2	34	90	183	346	362	183	298	316	269	230	91	26	10	0	0	0	0	0	101.7	361.8
8-Apr-06	0	0	0	0	0	4	65	143	398	546	666	728	729	584	431	178	149	67	36	1	0	0	0	0	196.9	728.9
9-Apr-06	0	0	0	0	0	1	40	216	432	500	421	315	239	274	213	472	376	139	12	0	0	0	0	0	152.2	499.5
10-Apr-06	0	0	0	0	0	2	46	186	432	543	544	552	498	566	519	256	203	114	32	1	0	0	0	0	187.2	565.8
11-Apr-06	0	0	0	0	0	2	15	60	108	259	219	313	248	258	110	197	292	98	27	2	0	0	0	0	92.0	313.0
12-Apr-06	0	0	0	0	0	7	118	283	426	599	554	593	733	579	322	177	106	116	17	3	0	0	0	0	193.1	732.6
13-Apr-06	0	0	0	0	0	2	65	204	404	594	576	616	394	363	598	546	407	173	53	1	0	0	0	0	208.2	615.5
14-Apr-06	0	0	0	0	0	5	71	123	193	326	541	664	711	741	650	484	225	79	27	1	0	0	0	0	201.7	740.5
15-Apr-06	0	0	0	0	0	5	72	247	443	592	678	673	624	729	600	445	237	86	13	1	0	0	0	0	226.8	728.5
16-Apr-06	0	0	0	0	0	8	68	206	341	513	680	807	766	807	686	579	342	101	36	2	0	0	0	0	247.6	807.1
17-Apr-06	0	0	0	0	0	4	54	225	188	316	525	633	482	532	435	390	307	208	124	7	0	0	0	0	184.6	632.7
18-Apr-06	0	0	0	0	0	7	100	220	417	592	743	824	804	827	485	541	391	270	102	5	0	0	0	0	263.7	826.9
19-Apr-06	0	0	0	0	0	11	142	315	490	642	760	837	836	812	729	605	448	271	102	5	0	0	0	0	291.9	837.2
20-Apr-06	0	0	0	0	0	17	140	309	475	620	738	813	829	793	711	585	428	261	99	6	0	0	0	0	284.3	829.2
21-Apr-06	0	0	0	0	0	19	143	314	486	634	718	797	823	745	661	548	435	191	72	5	0	0	0	0	274.6	822.6
22-Apr-06	0	0	0	0	0	12	69	68	161	213	182	129	106	87	123	129	54	39	28	7	0	0	0	0	58.6	212.8
23-Apr-06	0	0	0	0	0	19	158	338	506	638	735	850	861	831	746	624	467	289	118	8	0	0	0	0	299.4	861.4
24-Apr-06	0	0	0	0	0	28	170	346	521	673	788	857	874	837	754	628	471	293	122	10	0	0	0	0	307.2	873.7
25-Apr-06	0	0	0	0	0	30	174	347	520	670	781	852	871	835	754	627	467	291	117	9	0	0	0	0	306.1	871.1
26-Apr-06	0	0	0	0	0	22	152	215	439	652	768	838	855	809	738	608	451	267	59	10	0	0	0	0	286.8	854.6
27-Apr-06	0	0	0	0	0	23	140	316	514	366	337	188	335	560	775	624	451	275	115	12	0	0	0	0	209.6	775.5
28-Apr-06	0	0	0	0	0	36	179	349	520	666	778	846	860	825	745	583	443	237	115	6	0	0	0	0	299.6	860.2
29-Apr-06	0	0	0	0	1	47	169	346	523	668	779	844	851	782	551	663	469	125	103	15	0	0	0	0	289.0	851.0
30-Apr-06	0	0	0	0	0	11	50	110	185	210	99	98	143	188	128	122	70	31	11	2	0	0	0	0	60.7	210.1
Hourly Avg	0.0	0.0	0.0	0.0	0.0	10.9	87.7	207.2	349.6	470.6	551.9	592.4	588.1	580.1	498.4	416.1	298.4	154.3	56.3	4.0	0.0	0.0	0.0	0.0		
Hourly Max	0.1	0.0	0.0	0.1	0.6	46.9	178.7	349.2	522.6	673.3	787.9	857.1	873.7	837.3	775.5	663.0	471.3	293.1	123.9	14.8	0.1	0.1	0.1	0.0		

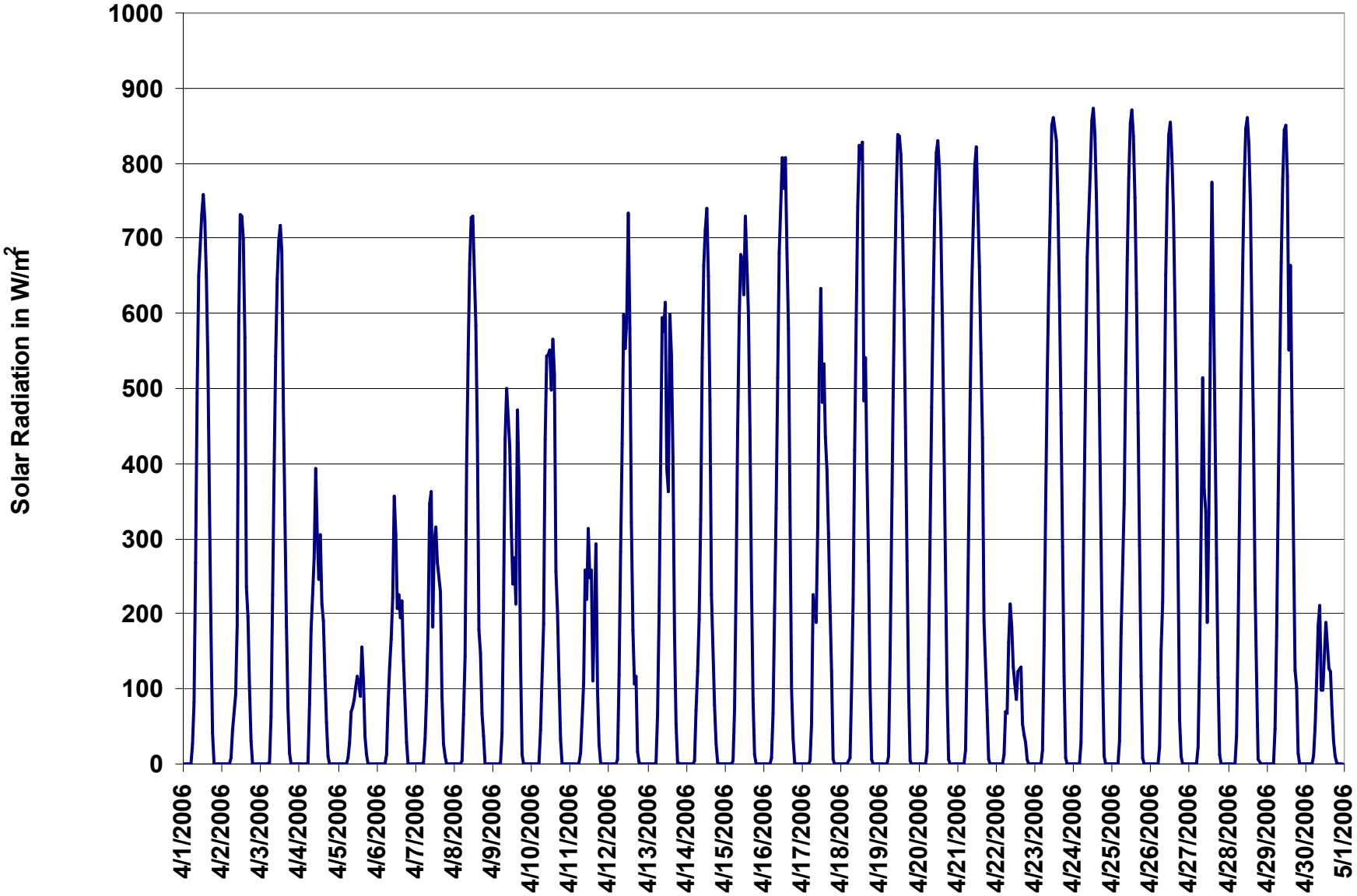


Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend

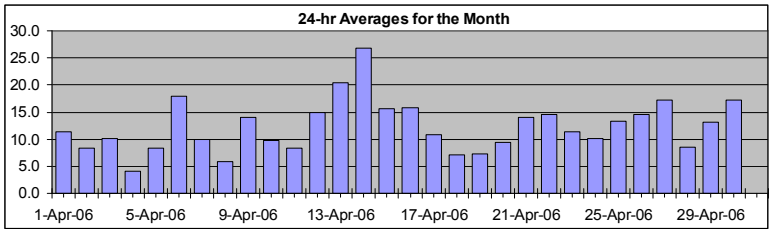
PAS - Crescent Heights - Scalar Wind Speed Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: April 1, 2006 to May 1, 2006



Summary

Maximum 1-hr Average:	41.0	km/hr	14-Apr	12:00 13:00
Maximum 24-hr Value:	26.8	km/hr	14-Apr	

Calm Time:	1 hrs	**0%** calms	Operational Time: 716 hrs
Calibration Time:	3 hrs		AMD Operational Uptime: 100.0%

Percentile	99	95	75	50	25	5	1	AverageS
	31.4	24.2	16.6	11.4	7.2	3.3	1.6	12.3 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-Apr-06	calm	2	4	4	10	14	11	10	13	12	11	11	11	11	12	11	10	10	23	20	14	14	14	11	11.3	22.8
2-Apr-06	12	9	9	9	12	10	8	8	6	5	3	4	5	5	6	7	12	11	10	8	10	12	11	10	8.4	12.4
3-Apr-06	17	15	14	16	13	11	10	9	11	18	14	12	15	13	10	8	5	6	3	3	4	4	6	6	10.1	18.3
4-Apr-06	4	1	1	2	1	1	2	2	2	2	4	4	9	8	7	7	6	5	3	4	5	6	5	7	4.1	8.6
5-Apr-06	6	5	4	4	3	5	4	3	1	3	1	5	5	10	11	9	10	10	13	12	16	20	24	19	8.4	24.0
6-Apr-06	17	16	16	18	20	20	18	17	18	19	20	20	21	20	18	16	16	13	12	17	21	21	20	13	17.9	21.2
7-Apr-06	10	6	4	9	9	7	5	10	6	8	9	9	15	17	15	15	12	6	7	7	9	12	18	15	9.9	17.7
8-Apr-06	8	6	6	8	6	4	3	3	5	6	5	5	8	8	9	9	9	5	4	5	3	5	7	5	5.9	9.1
9-Apr-06	4	6	9	18	20	21	25	24	22	17	16	21	16	15	15	15	15	12	9	11	5	3	8	10	14.0	25.5
10-Apr-06	8	10	12	10	10	8	6	8	12	16	18	14	14	10	5	11	17	9	5	5	4	8	7	6	9.7	17.6
11-Apr-06	7	7	9	9	10	11	11	11	12	13	10	11	11	12	10	11	9	6	5	3	2	3	3	5	8.4	13.0
12-Apr-06	5	6	5	4	2	2	3	2	10	19	26	24	20	25	C	C	C	16	18	19	23	27	30	29	14.9	30.1
13-Apr-06	23	24	21	23	29	28	20	16	18	18	21	16	16	18	23	24	24	24	21	15	9	14	24	25	20.5	28.8
14-Apr-06	29	33	32	26	31	27	26	27	32	33	32	38	41	31	31	27	27	20	18	12	15	15	18	20	26.8	41.0
15-Apr-06	19	20	22	18	8	10	15	16	15	18	19	16	17	19	20	25	15	17	12	12	11	13	9	9	15.7	24.6
16-Apr-06	8	9	13	10	12	16	20	21	21	23	25	27	26	24	22	20	19	18	13	7	5	7	6	7	15.9	27.2
17-Apr-06	7	9	12	10	13	13	9	10	12	11	11	13	14	15	16	14	16	14	12	7	8	6	4	4	10.8	15.9
18-Apr-06	3	3	3	5	6	9	9	9	10	10	6	8	8	9	10	10	10	10	7	6	7	4	5	5	7.2	10.5
19-Apr-06	6	8	8	8	8	6	7	6	10	7	6	7	7	7	8	7	6	5	5	9	7	11	9	6	7.2	10.7
20-Apr-06	7	5	3	2	3	5	5	5	5	15	15	16	17	15	14	12	9	8	8	8	9	10	13	14	9.4	16.7
21-Apr-06	20	11	10	11	17	11	10	7	9	17	17	18	18	18	18	19	23	15	13	12	12	12	11	5	14.0	23.4
22-Apr-06	7	8	10	15	19	9	12	12	14	15	19	18	18	18	18	19	17	16	12	13	10	17	18	15	14.6	19.5
23-Apr-06	11	10	12	14	11	7	7	11	13	13	15	15	15	17	16	16	14	14	11	7	6	6	5	6	11.4	16.8
24-Apr-06	6	6	5	5	5	5	4	4	6	14	16	15	12	13	13	12	9	10	10	12	15	16	15	15	10.1	15.6
25-Apr-06	19	14	5	4	8	7	11	10	15	15	16	16	16	15	16	18	18	17	14	13	12	8	15	17	13.4	18.8
26-Apr-06	16	11	5	6	7	7	16	20	18	17	17	18	17	16	17	16	15	12	11	16	16	17	20	19	14.5	20.0
27-Apr-06	18	19	20	17	13	14	13	18	25	26	29	17	22	26	25	23	24	20	15	8	7	7	6	2	17.2	28.6
28-Apr-06	4	8	11	10	9	11	6	7	5	5	7	8	7	9	9	9	9	10	10	13	13	10	7	8	8.5	13.3
29-Apr-06	12	16	19	18	18	16	13	12	19	22	16	14	14	13	11	10	11	8	5	3	4	7	16	18	13.1	21.6
30-Apr-06	18	16	18	19	19	17	19	19	20	24	17	15	17	18	19	19	18	15	15	15	15	15	14	13	17.3	23.6
1-hr Average	11.4	10.7	10.7	11.1	11.7	11.1	10.9	11.2	12.8	14.8	14.8	14.5	15.1	15.1	14.6	14.4	13.9	12.1	10.7	10.0	9.9	11.0	12.3	11.4		
Hourly Max	29.3	33.4	32.2	26.0	30.5	28.3	25.8	27.1	31.6	33.4	32.0	37.9	41.0	31.4	31.2	27.0	27.0	23.5	22.8	19.7	22.8	26.8	30.1	29.5		

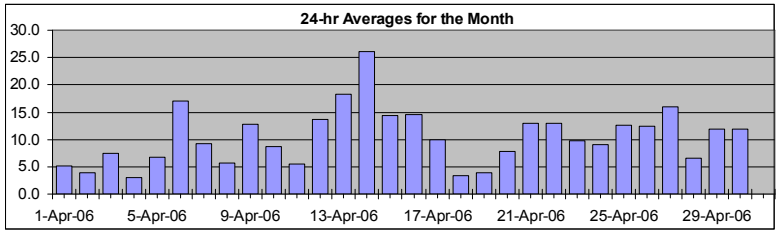
PAS - Crescent Heights - Vector Wind Speed Monthly Summary

Station: Cresent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2006 to May 1, 2006

HOURLY AVERAGE TABLE

Wind Speed (WSv)



Summary

Maximum 1-hr Average:	40.8	km/hr	14-Apr	12:00 13:00
Maximum 24-hr Value:	26.1	km/hr	14-Apr	

Calm Time:	5 hrs	**1%** calms			Operational Time:			712 hrs		
Calibration Time:	3 hrs				AMD Operational Uptime:			100.0%		
Percentile	99	95	75	50	25	5	1			AverageV
	31.0	23.9	16.2	10.9	6.7	2.8	1.3			20.0 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-Apr-06	calm	1	4	4	10	13	11	10	13	12	10	10	10	10	11	10	10	9	22	20	14	14	13	11	5.2	22.4
2-Apr-06	12	8	9	9	12	9	8	8	5	4	2	3	4	4	5	6	11	10	9	8	10	12	10	9	4.0	12.3
3-Apr-06	17	15	14	16	13	11	10	9	10	18	14	11	14	12	9	7	5	6	3	3	3	4	5	6	7.5	18.0
4-Apr-06	4	1	calm	3	1	calm	2	2	1	2	3	3	8	8	7	7	6	5	3	4	4	6	5	7	3.1	8.4
5-Apr-06	6	5	4	4	2	5	4	2	calm	2	calm	4	4	9	11	8	10	10	13	12	16	20	24	18	6.7	23.7
6-Apr-06	17	16	16	18	20	19	18	17	18	19	20	20	21	20	18	16	16	13	11	17	21	21	19	13	17.1	21.1
7-Apr-06	10	6	3	8	9	6	3	9	5	7	8	9	15	16	15	14	11	6	7	6	9	12	17	14	9.2	17.4
8-Apr-06	7	6	6	8	6	4	3	3	5	5	4	3	6	7	8	9	8	5	4	5	2	4	7	5	5.6	8.9
9-Apr-06	4	6	9	18	20	21	25	24	22	16	16	20	15	14	15	14	14	11	9	11	5	3	8	9	12.7	25.4
10-Apr-06	8	10	12	10	10	8	6	7	12	16	17	13	13	9	3	10	16	9	5	5	4	8	7	6	8.7	17.3
11-Apr-06	7	7	8	9	10	11	11	11	12	13	10	11	11	12	10	10	8	6	5	2	2	3	3	5	5.5	12.8
12-Apr-06	4	5	4	3	1	2	3	2	9	19	26	23	19	24	C	C	C	16	17	18	22	27	30	29	13.7	30.0
13-Apr-06	23	24	21	22	29	28	19	15	18	18	21	15	16	17	22	23	23	23	21	14	8	14	24	25	18.3	28.8
14-Apr-06	29	33	32	26	30	27	26	27	31	33	32	38	41	31	31	27	27	20	18	12	14	14	18	20	26.1	40.8
15-Apr-06	19	20	22	18	7	9	15	16	14	18	19	16	17	18	20	24	15	17	12	10	9	11	9	7	14.3	23.6
16-Apr-06	8	8	12	9	12	16	20	20	21	22	25	27	26	24	21	20	19	18	12	7	5	7	6	7	14.6	26.8
17-Apr-06	7	9	12	10	12	13	9	10	12	10	11	12	13	14	15	13	15	13	11	7	8	6	2	1	10.0	15.2
18-Apr-06	1	2	1	5	5	9	9	9	10	10	3	4	4	6	8	9	9	9	7	6	7	4	4	4	3.4	9.9
19-Apr-06	6	8	7	8	8	5	7	5	10	6	5	4	3	5	4	2	3	2	4	9	7	11	9	6	3.9	10.6
20-Apr-06	7	5	3	2	2	4	4	5	5	15	15	15	16	14	13	11	8	8	8	7	9	10	13	14	7.9	15.9
21-Apr-06	19	10	10	11	17	11	10	7	8	17	16	18	17	18	17	18	23	15	13	10	11	10	11	4	13.0	22.7
22-Apr-06	7	7	10	12	18	9	12	12	14	15	19	18	18	18	18	19	17	16	12	13	10	17	17	15	13.0	19.4
23-Apr-06	11	10	12	14	11	7	7	10	13	13	15	14	14	16	15	16	13	13	10	7	6	6	5	5	9.7	16.2
24-Apr-06	6	6	5	5	5	5	3	4	6	13	15	13	10	11	11	10	8	9	10	12	15	16	15	15	9.1	15.5
25-Apr-06	19	14	5	3	8	7	11	9	15	15	15	15	16	15	15	17	18	16	14	13	11	8	15	15	12.5	18.7
26-Apr-06	15	10	3	4	7	6	16	20	17	16	16	18	15	15	16	15	15	12	11	16	16	17	20	19	12.4	20.0
27-Apr-06	17	19	19	16	13	14	13	18	25	25	28	17	22	26	24	23	23	19	15	8	7	7	5	1	16.0	28.3
28-Apr-06	3	8	10	10	9	10	4	6	4	5	6	6	5	7	7	7	8	10	10	13	13	10	7	6	6.6	13.1
29-Apr-06	11	16	19	18	18	16	13	12	19	21	16	13	13	11	10	9	10	8	5	2	2	6	16	18	12.0	21.3
30-Apr-06	18	16	18	19	17	16	18	19	20	23	16	15	17	18	19	19	18	15	15	15	15	15	14	13	11.9	23.3
1-hr Vector	6.4	6.0	5.6	5.6	5.6	5.4	5.4	6.0	7.1	7.8	7.1	7.0	7.3	6.9	6.0	5.9	5.9	4.8	2.9	1.6	2.3	3.7	4.8	5.9		
Hourly Max	29.1	33.3	32.1	25.8	30.4	28.2	25.7	26.9	31.5	33.3	31.6	37.7	40.8	31.0	30.9	26.7	26.7	23.4	22.4	19.7	22.3	26.7	30.0	29.4		

PAS - Crescent Heights - Wind Direction Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: April 1, 2006 to May 1, 2006

Summary

Calm Time:	0 hrs	**0%** calms				Operational Time:		717 hrs																	
Calibration Time:	3 hrs					AMD Operational Uptime:		100.0%																	
Percentile	99	95	75	50	25	5	1	Average																	
	354.9	340.3	259.6	214.8	155.0	32.4	7.0	233 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-Apr-06	195	335	344	217	235	244	238	244	235	245	246	263	263	272	269	283	291	316	18	22	22	30	31	46	299	WNW
2-Apr-06	53	38	47	22	39	44	77	109	127	151	122	13	134	127	131	152	199	187	175	179	177	174	183	198	128	SE
3-Apr-06	183	181	174	171	184	207	230	228	227	219	228	218	219	223	232	250	300	341	16	93	129	113	107	109	204	SSW
4-Apr-06	133	81	40	14	82	355	330	21	106	164	51	56	80	103	135	142	129	109	44	33	37	63	83	68	85	E
5-Apr-06	72	77	67	210	274	7	353	338	233	231	144	11	37	54	58	41	13	14	9	38	60	78	71	72	50	NE
6-Apr-06	82	70	58	69	73	74	86	83	79	83	86	92	114	110	104	99	106	91	99	94	108	110	116	128	92	E
7-Apr-06	148	136	135	135	158	166	260	188	180	166	168	163	188	181	192	192	196	183	173	168	185	194	201	211	181	S
8-Apr-06	259	221	253	249	251	243	265	237	241	264	306	285	238	268	253	246	247	243	236	231	264	210	245	234	249	WSW
9-Apr-06	219	208	229	212	217	219	224	228	238	240	279	245	243	251	270	252	256	282	282	310	312	215	231	226	242	WSW
10-Apr-06	228	233	231	235	238	235	244	242	217	217	226	229	237	246	241	275	305	309	267	269	273	274	276	264	247	WSW
11-Apr-06	258	249	247	262	275	300	309	290	298	314	308	299	309	321	318	357	30	50	54	114	182	210	145	135	304	WNW
12-Apr-06	130	139	133	129	106	99	119	199	197	196	206	216	210	212	C	C	C	217	215	224	226	210	210	215	207	SSW
13-Apr-06	222	218	232	212	208	215	231	258	271	287	283	299	274	267	250	257	261	260	263	258	219	219	218	210	243	WSW
14-Apr-06	210	212	213	202	207	204	205	205	215	215	220	227	234	232	234	241	231	237	233	251	226	236	214	205	220	SW
15-Apr-06	208	200	200	213	283	248	228	222	234	251	250	248	236	238	235	233	275	281	265	238	199	196	259	218	234	SW
16-Apr-06	171	192	211	222	218	202	214	224	246	257	254	243	238	238	252	258	254	264	269	258	247	240	261	315	241	WSW
17-Apr-06	349	3	19	28	21	4	354	360	342	358	345	2	357	350	343	334	335	339	333	329	331	303	288	201	349	N
18-Apr-06	204	70	117	209	238	240	228	221	208	211	280	325	319	349	328	301	318	317	322	335	340	71	129	143	283	WNW
19-Apr-06	134	207	226	209	228	201	211	209	216	207	145	107	16	244	158	126	192	252	75	63	104	113	120	124	169	S
20-Apr-06	124	106	91	67	8	117	151	177	175	207	202	205	204	215	177	191	187	170	156	134	152	179	205	192	182	S
21-Apr-06	217	247	238	228	214	237	220	205	189	197	192	206	201	191	179	189	211	191	193	217	210	237	285	241	210	SSW
22-Apr-06	242	238	239	321	349	340	336	325	338	340	333	340	344	343	351	1	2	3	360	360	350	349	353	2	343	NNW
23-Apr-06	345	343	330	342	347	335	334	316	344	353	358	13	11	7	9	23	17	12	12	34	42	122	122	115	3	N
24-Apr-06	110	120	118	111	127	118	117	196	194	184	192	195	172	180	162	161	171	172	168	190	183	179	183	204	173	S
25-Apr-06	185	194	242	210	194	155	132	127	178	174	164	175	169	167	170	176	171	174	165	155	136	130	165	203	171	S
26-Apr-06	220	220	228	228	239	192	204	209	216	221	244	258	263	280	283	299	306	311	276	258	262	266	265	264	253	WSW
27-Apr-06	265	272	281	294	295	307	314	317	326	334	343	309	328	332	326	320	329	324	328	343	336	327	349	40	318	NW
28-Apr-06	216	208	230	232	219	232	198	207	214	146	122	120	153	201	196	176	169	171	144	126	133	131	119	178	176	S
29-Apr-06	202	206	206	205	204	205	222	225	232	225	231	211	229	221	236	218	222	244	291	314	227	148	174	170	214	SSW
30-Apr-06	174	175	178	190	198	265	314	320	320	321	308	296	290	302	301	305	308	299	298	292	284	283	275	272	283	WNW
Hourly Avg	199	205	219	217	223	228	233	236	242	238	246	245	241	247	249	254	265	271	275	259	200	192	202	200		

PAS - Crescent Heights - Standard Deviation of Wind Direction Monthly Summary

Station: Cresent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: April 1, 2006 to May 1, 2006

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	**0%** calms	Operational Time: 717 hrs
Calibration Time:	3 hrs		AMD Operational Uptime: 100.0%

Percentile	99	95	75	50	25	5	1
	57.1	42.6	15.6	9.9	7.2	4.8	4.0

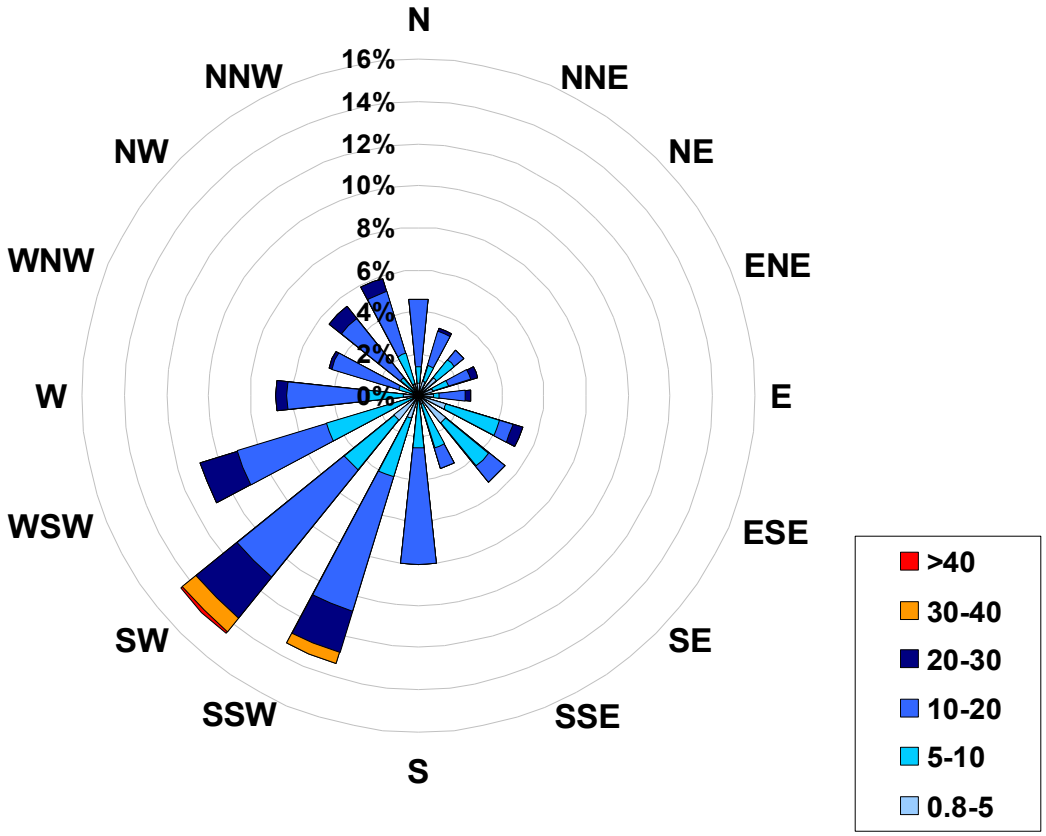
Status Flag Characters

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-Apr-06	28	30	15	40	7	8	8	8	9	13	16	20	16	19	19	17	15	14	9	5	6	5	6	9	39.8
2-Apr-06	6	8	8	7	6	11	11	11	18	25	55	47	62	60	50	42	16	11	7	6	6	5	6	10	62.1
3-Apr-06	6	6	7	6	9	8	8	9	12	8	13	15	18	22	21	23	22	8	11	13	14	7	7	7	23.2
4-Apr-06	16	56	46	49	53	57	14	21	36	35	29	36	12	13	11	14	11	6	9	5	7	8	12	7	57.2
5-Apr-06	10	6	18	20	23	7	11	37	48	24	54	19	21	11	8	11	9	7	4	6	9	8	7	7	53.5
6-Apr-06	8	7	8	5	5	4	7	7	7	6	8	7	7	6	6	8	9	8	5	5	4	5	5	7	8.7
7-Apr-06	7	8	25	10	13	30	38	14	18	16	15	10	10	13	13	11	13	11	7	11	10	7	7	14	38.0
8-Apr-06	11	16	9	8	8	8	14	17	21	25	33	56	32	26	18	12	12	10	8	7	39	15	11	20	55.6
9-Apr-06	14	14	10	5	5	5	4	5	7	10	8	9	10	13	10	12	10	10	9	8	16	16	12	9	16.1
10-Apr-06	8	7	6	6	8	11	10	8	11	11	10	14	18	19	54	19	9	8	12	7	9	7	7	8	54.1
11-Apr-06	10	7	7	8	9	11	8	9	10	9	14	14	12	9	6	9	15	16	17	21	50	13	12	8	49.6
12-Apr-06	9	17	9	9	13	10	9	23	11	10	9	10	13	9	C	C	C	5	7	11	5	4	4	4	22.7
13-Apr-06	6	6	7	6	5	4	9	8	10	10	12	14	15	9	10	10	8	5	6	8	26	6	5	7	25.5
14-Apr-06	4	4	4	5	5	5	5	5	5	5	7	6	5	8	8	9	7	6	5	12	9	10	10	6	11.7
15-Apr-06	6	6	6	7	15	13	6	7	12	10	11	14	14	15	14	16	12	7	8	24	18	15	12	22	24.2
16-Apr-06	12	9	8	12	7	6	5	7	8	9	8	10	13	13	14	10	10	8	8	13	14	8	12	11	13.6
17-Apr-06	18	9	12	9	10	4	8	9	11	13	13	17	17	17	13	14	13	10	8	8	5	9	51	74	73.7
18-Apr-06	70	37	29	10	30	6	6	8	12	15	43	43	57	46	24	22	30	25	21	9	6	12	14	16	69.6
19-Apr-06	10	16	10	7	9	18	8	21	13	44	52	53	52	51	46	70	41	59	30	4	11	5	7	10	69.8
20-Apr-06	10	11	16	16	20	13	18	16	29	13	18	15	15	19	16	20	23	28	11	7	7	9	8	9	28.7
21-Apr-06	8	8	6	10	6	10	6	18	22	10	13	14	15	14	12	14	9	7	6	12	24	15	8	29	29.5
22-Apr-06	10	17	10	11	8	10	9	10	13	11	8	7	5	5	5	5	5	5	5	4	6	4	5	5	17.0
23-Apr-06	4	6	8	5	4	7	14	14	13	18	14	20	19	17	16	17	17	13	10	5	9	8	10	14	19.7
24-Apr-06	6	8	8	11	8	4	20	36	24	20	13	24	26	27	28	27	29	23	11	6	6	5	7	9	35.6
25-Apr-06	6	6	18	58	15	14	6	14	15	12	17	21	15	17	17	15	10	11	8	6	5	8	7	17	57.7
26-Apr-06	11	16	48	30	13	15	7	8	9	12	15	13	18	16	16	14	13	12	11	7	6	6	5	6	47.9
27-Apr-06	6	5	6	8	9	8	8	7	7	7	7	9	8	9	11	9	9	10	6	6	5	7	42	48	48.3
28-Apr-06	31	7	6	5	8	10	31	25	40	39	39	39	52	49	55	31	24	13	9	6	7	8	9	19	55.1
29-Apr-06	11	7	6	6	6	5	6	7	9	8	13	18	19	33	28	41	35	14	11	30	53	28	6	6	53.1
30-Apr-06	7	7	6	6	12	10	8	7	6	7	9	9	9	9	7	8	8	9	8	8	7	8	7	7	12.3
Hourly Max	70	56	48	58	53	57	38	37	48	44	55	56	62	60	55	70	41	59	30	30	53	28	51	74	

1-hr Average Wind Rose (in km/hr)
Located at the Crescent Heights Site for April 2006



Calms:	0%

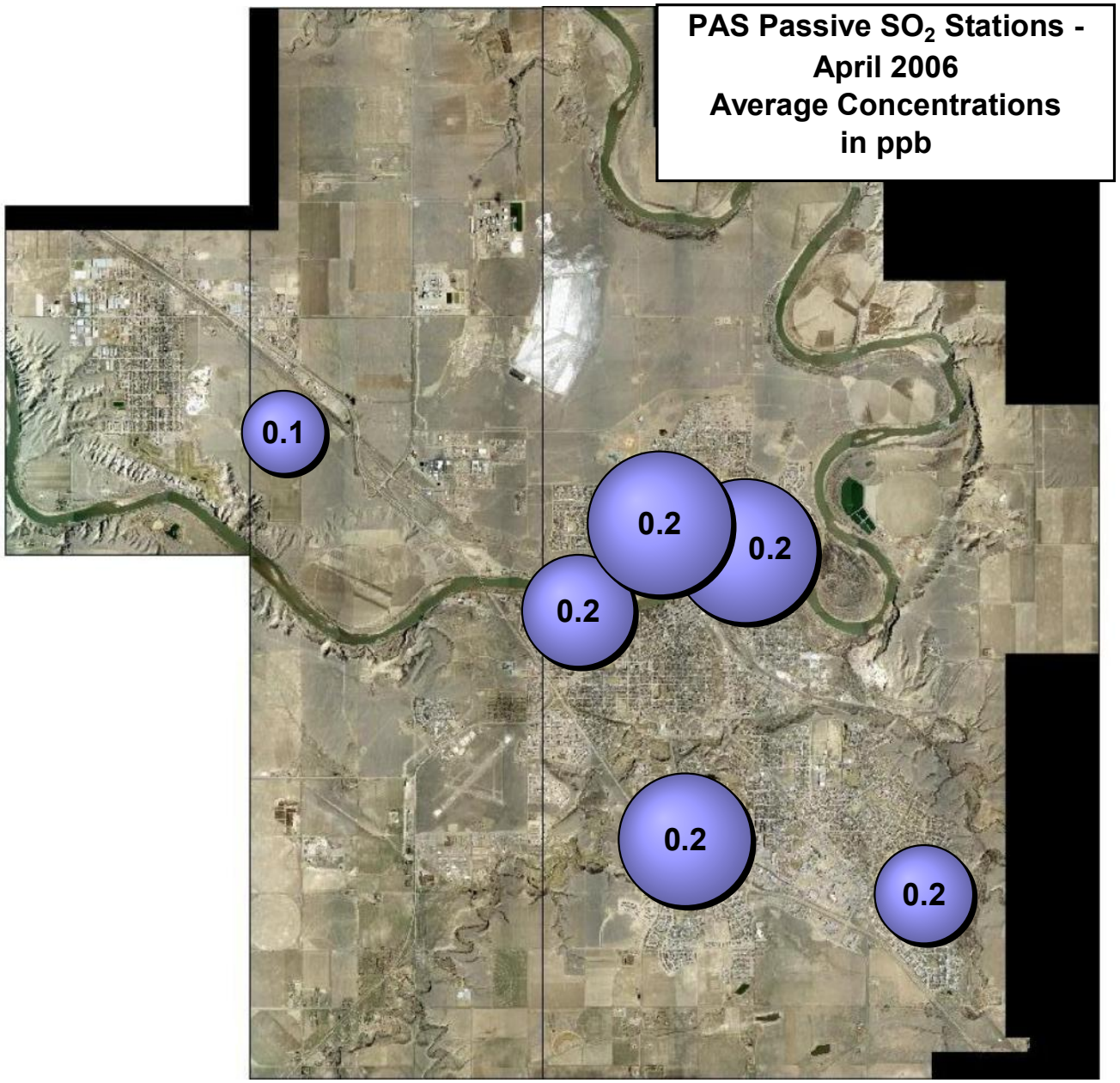
Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	87
5	to	10	208
10	to	20	341
20	to	30	69
30	to	40	10
	>	40	1
Total Non-Zero Values			716

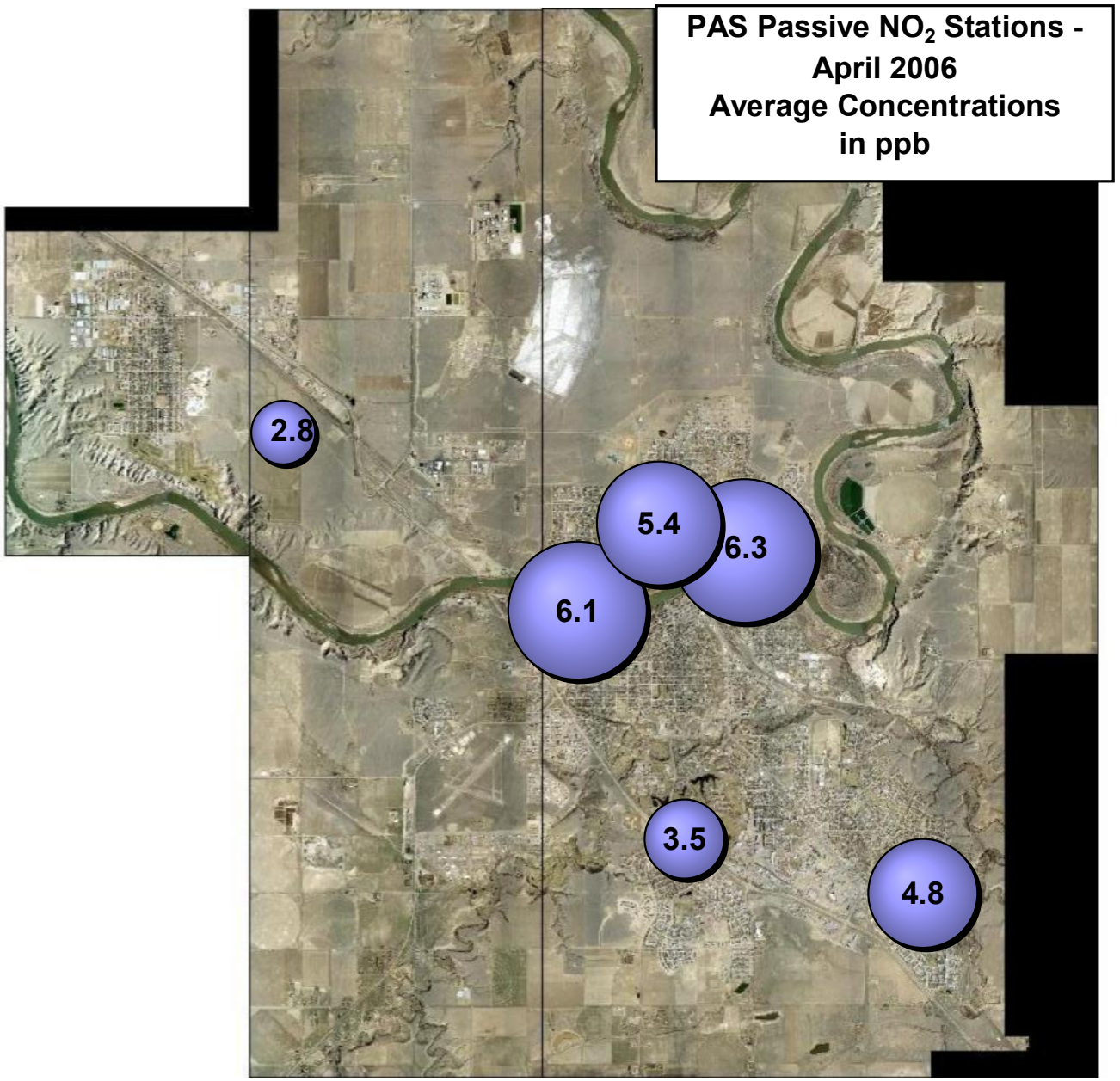
Passive Monitoring – April 2006

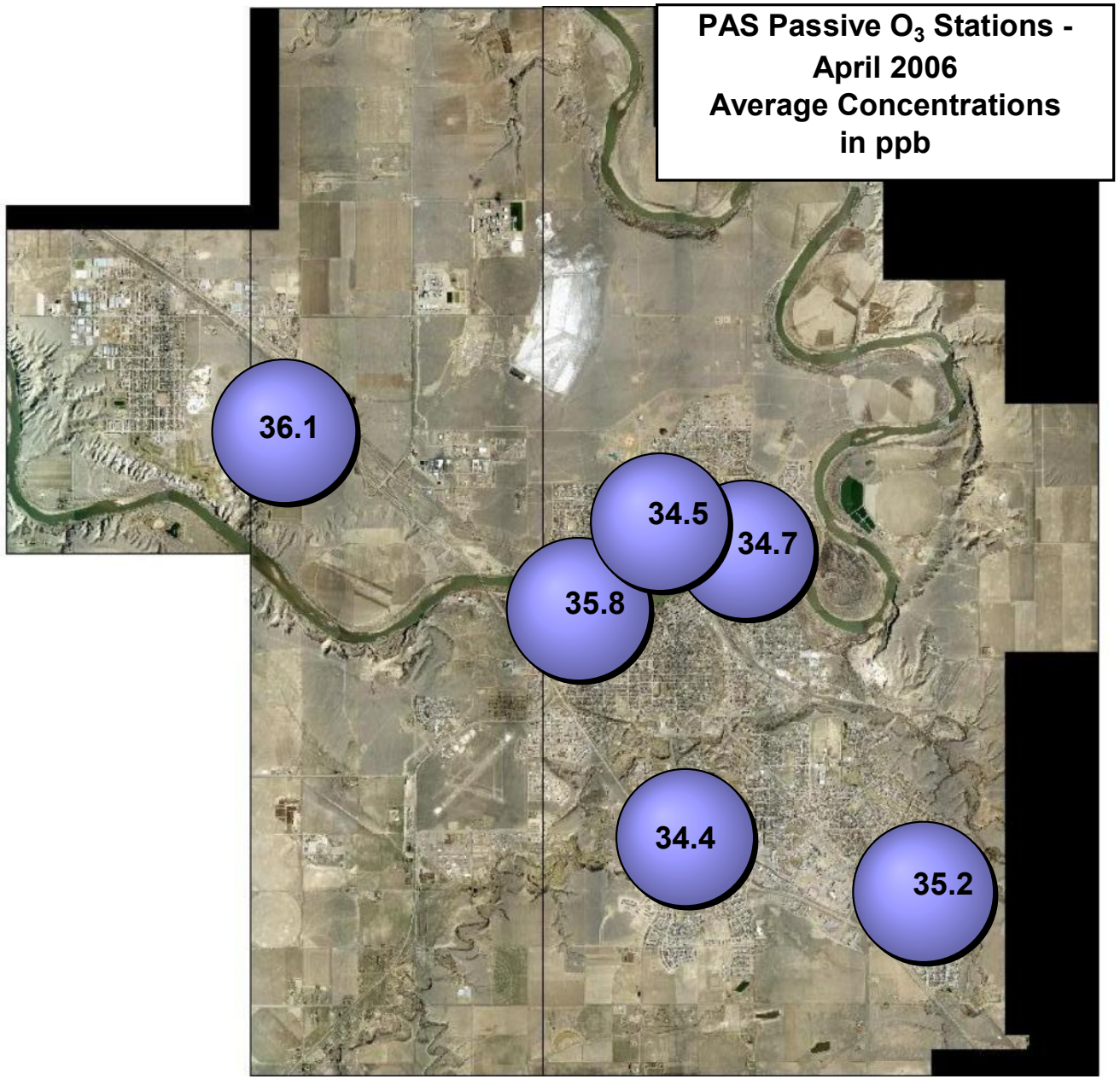
Ambient Air Compliance Network

Palliser Airshed Society - PAS Passive Stations for April 2006

Station Number	Station Name	SO_2 ppb	O_3 ppb	NO_2 ppb	Location Easting	Northing	Elevtion
Duplicates							
1a	Hospital	**0.2**	**36.5**	**6.1**			
1b		**0.2**	**35.1**	**6.0**			
1	Hospital	**0.2**	**35.8**	**6.1**	521648	5542721	698
2	Ball Park	**0.2**	**34.7**	**6.3**	524019	5543686	660
3	Monitoring Station	**0.2**	**34.5**	**5.4**	522812	5544133	714
4	Redcliff	**0.1**	**36.1**	**2.8**	517448	5545608	725
5	Southridge	**0.2**	**34.4**	**3.5**	523172	5539016	721
6	Christian School Park	**0.2**	**35.2**	**4.8**	526577	5538133	709
Stats:							
	Mean	**0.2**	**35.1**	**4.8**			
	Standard Deviation	**0.0**	**0.7**	**1.4**			
	Minimum	**0.1**			**4**	**Redcliff**	
	Maximum	**0.2**			**2**	**Ball Park**	
	Minimum		**34.4**		**5**	**Southridge**	
	Maximum		**36.1**		**4**	**Redcliff**	
	Minimum			**2.8**	**4**	**Redcliff**	
	Maximum			**6.3**	**2**	**Ball Park**	


PAS Passive SO_2 Stations - April 2006
Average Concentrations in ppb
0.1
0.2
0.2
0.2
0.2
0.2


PAS Passive NO_2 Stations - April 2006 Average Concentrations in ppb
2.8
5.4
6.3
6.1
3.5
4.8


PAS Passive O_3 Stations - April 2006 Average Concentrations in ppb
36.1
34.5
34.7
35.8
34.4
35.2

PAS

April 2006 - Calibration Reports

Crescent Heights Station:

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

Calibration Report

FOCUS AIR QUALITY MONITORING

Parameter **O3**

Air Monitoring Network **Palliser Airshed**

Station Information

Calibration Date	April 12, 2006	Previous Calibration	March 29, 2006
Station Number	101	Station Location	Crescent Heights
Reason:	Routine:	Calibration:	Removal: Other:
Start Time (MST)	17:20	End Time (MST)	21:09
Barometric Pressure	27.3 inches Hg	Station Temperature	19.0 Deg C
Calibrator	Environics 6100	Serial Number	3474
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 1 volt	DACS channel #	5
	Before		After
Calculated slope	1.015791	Calculated slope	0.990702
Calculated intercept	-3.784941	Calculated intercept	-0.663051
Analyzer make	API Model 400E	Analyzer serial #	331

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Offset	NA	ppb	-6.1	ppb
Slope	NA		1.068	
Lamp measure	3795.0	mV	4792.7	mV
Lamp Reference	3802.0	mV	4793.6	mV
Pressure	25.1	inches Hg	25.7	inches Hg
Sample Flow	725	ccm	724	ccm
Lamp temp	48	Deg C	37	Deg C

Calibration Data

Dilution air flow rate (cc/min)	Ozone Set Point	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4986	0.0	0.0	-1.1	N/A
4986	350.0	290.4	292.0	0.9945
4986	200.0	192.0	196.2	0.9788
4986	100.0	98.2	101.7	0.9657
4986	0.0	0.0	0.4	0.0000
4986	350.0	290.4	286.5	1.0135
			Average Correction Factor	0.9797

Calculated value of As Found Response: 286.9 ppm Percent Change of As Found: -1.2%

	before calibration		after calibration	
Auto zero	-5.0	ppb	-2.2	ppb
Auto span	356.8	ppb	357.1	ppb

Notes: A span adjustment was made. Calculated O3 conc derived from NOX GPT calibration.
Checked and cleaned quartz sample tube. Peaked lamp to maximum value.

Calibration Performed By: KB, LF, TM

Calibration Summary

Parameter **O3**

Air Monitoring Network **Palliser Airshed**

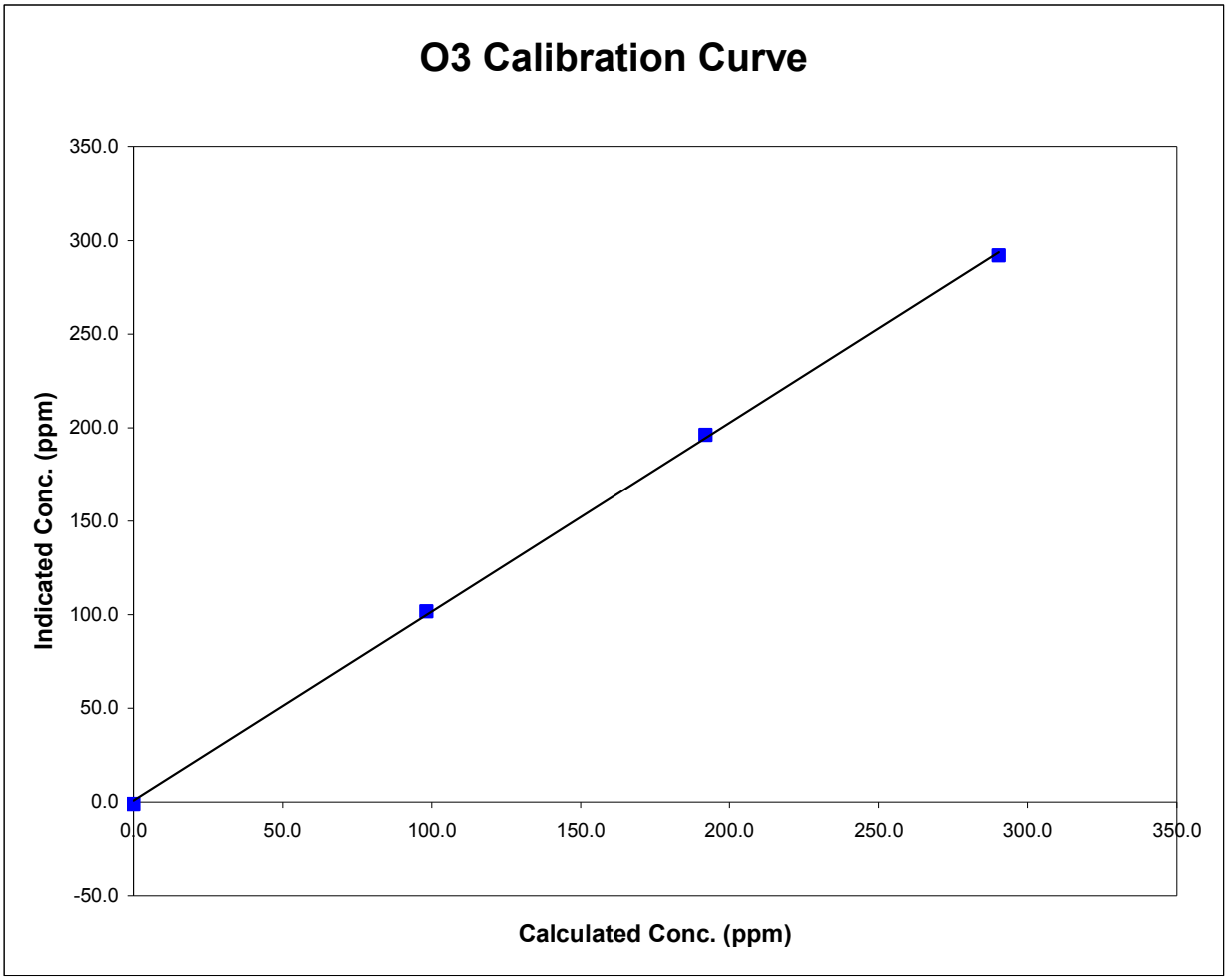
FOCUS AIR QUALITY MONITORING

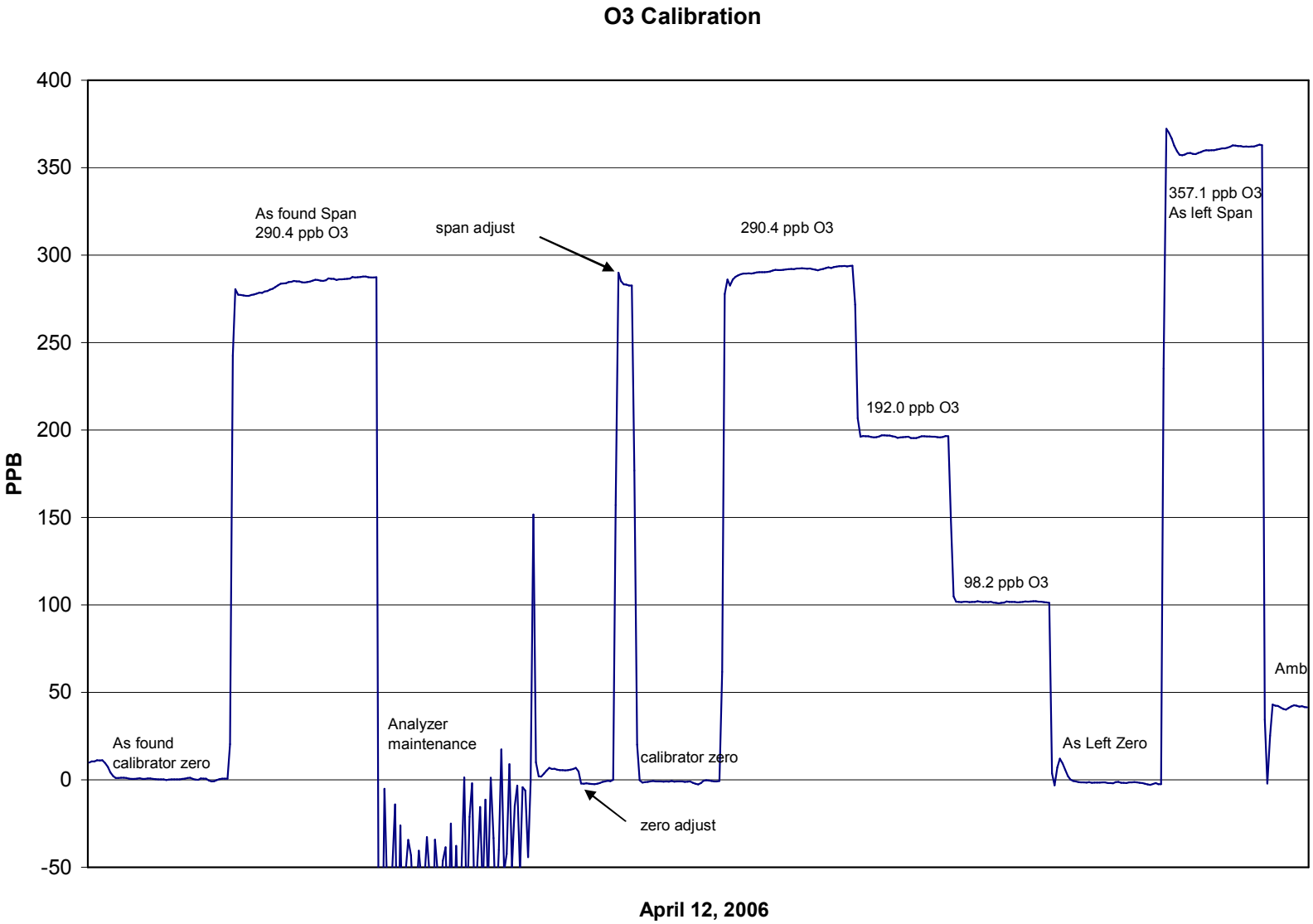
Station Information

Calibration Date	April 12, 2006	Previous Calibration	March 29, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	17:20	End Time (MST)	21:09
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	
290.4	292.0	0.9945		
192.0	196.2	0.9788	Correlation Coefficient	0.999729
98.2	101.7	0.9657		
0.0	-1.1	N/A	Slope	0.990702
			Intercept	-0.663051




O3 Calibration
400
350
300
250
200
150
100
50
0
-50
PPB
As found Span
290.4 ppb O3
span adjust
290.4 ppb O3
357.1 ppb O3
As left Span
192.0 ppb O3
98.2 ppb O3
Amb
As found
calibrator zero
Analyzer
maintenance
calibrator zero
As Left Zero
zero adjust
April 12, 2006

Calibration Report

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

Air Monitoring Network **Palliser Airshed**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	April 12, 2006	Previous Calibration	March 29, 2006
Station Number	101	Station Location	Crescent Heights

Reason: Routine | Installation | Removal | Other:

Start Time (MST)	11:10		End Time (MST)	16:20	
Barometric Pressure	27.3	inches Hg	Station Temperature	17.0	Deg C
Calibrator	Environics 6100		Serial Number	3474	
NO Cal Gas Conc	50.5	ppm	Cal Gas Expiry Date	22-Nov-06	
NOx Cal Gas Conc	50.5	ppm	Cal Gas Serial #	BAL786	

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	45270

Parameter		NO2	NOx	NO
Before	Data Slope	1.001530	1.002021	1.002249
	Data Offset	-0.034874	1.060620	1.581415
After	Data Slope	0.995839	0.998654	1.005805
	Data Offset	-0.770339	0.147834	0.459229
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	-10.7	mV	-0.2	mV
NOx background	-7.9	mV	1.1	mV
NO coefficient	1.094		1.085	
NOx coefficient	1.109		1.101	
Chamber Temp	49.9	Deg C	49.9	Deg C
Cooler Temp	7.0	Deg C	7.0	Deg C
Azero	49.4		36.5	
Perm Temp	40.2	Deg C	40.2	Deg C
Pressure	4.4	inches Hg	4.6	inches Hg
Sample Flow	442.0	ccm	449.0	ccm

Notes: Perm tube replacement. Zero and Span Adjustments performed.

Calibration Report

Parameter **NOx-NO-NO_2**

Air Monitoring Network **Palliser Airshed**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date: April 12, 2006 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	4985	0.00	0.0	0.0	0.0	-0.5	-0.7	-0.4	N/A	N/A
1	4985	39.94	401.4	401.4	0.0	401.5	398.5	2.7	0.9997	1.0072
2	4985	19.93	201.1	201.1	0.0	201.7	199.5	1.5	0.9970	1.0078
3	4985	9.95	100.6	100.6	0.0	100.7	99.9	0.6	0.9988	1.0071
AFZ	4990	0.00	0.0	0.0	0.0	4.8	5.1	-0.7	0.0000	0.0000
AFS	4990	39.86	400.2	400.2	0.0	408.9	406.4	2.3	0.9788	0.9848
							Average Correction Factor		0.9985	1.0074

As Found Concentrations NO_X= 405.1 NO= 402.9 As Found Percent Change NO_X= 1.2% NO= 0.7%

GPT Calibration Data

Dilution Flow 4985 ccm Source Gas Flow 39.80 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	396.2	396.7	-0.5	396.6	393.9	-0.4	N/A	N/A	N/A	N/A
300	401.5	303.3	98.2	401.9	301.1	100.9	0.9990	1.0073	0.9730	102.8%
200	402.7	210.7	192.0	403.1	209.0	194.2	0.9990	1.0080	0.9887	101.1%
100	403.8	113.4	290.4	404.2	112.3	291.5	0.9990	1.0099	0.9964	100.4%
					Average Correction Factor		0.9990	1.0084	0.9861	101.4%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	2.1	-0.7	2.1	ppb	0.6	-1.1	0.6	ppb
Auto span	413.7	404.2	8.6	ppb	391.6	384.2	5.5	ppb

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter **NO_2**

Air Monitoring Network **Palliser Airshed**

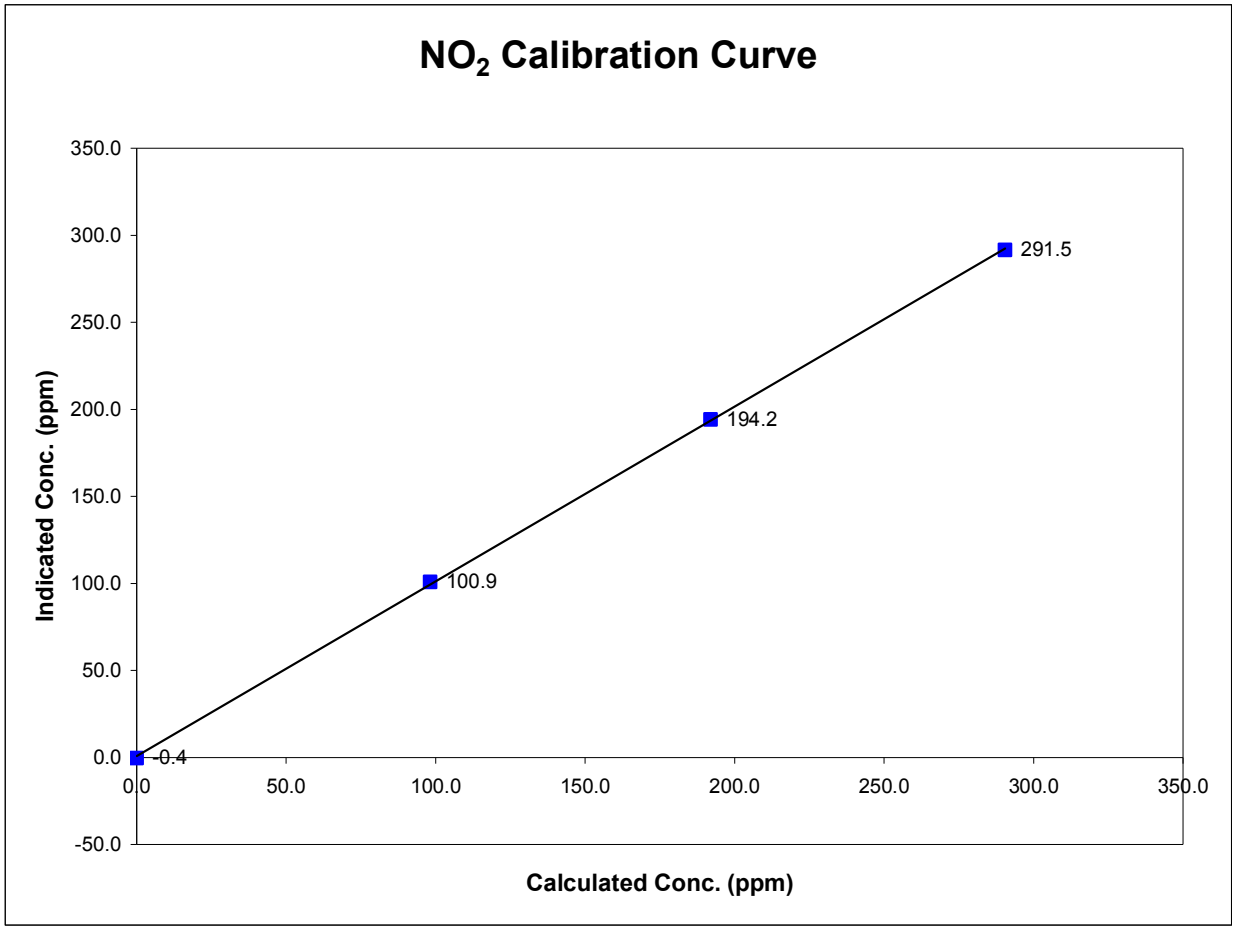
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	April 12, 2006	Previous Calibration	March 29, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	11:10	End Time (MST)	16:20
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		
98.2	100.9	0.9730	Correlation Coefficient	0.999891
192.0	194.2	0.9887		
290.4	291.5	0.9964	Slope	0.995839
			Intercept	-0.770339



Calibration Summary

Parameter **NO_x**

Air Monitoring Network **Palliser Airshed**

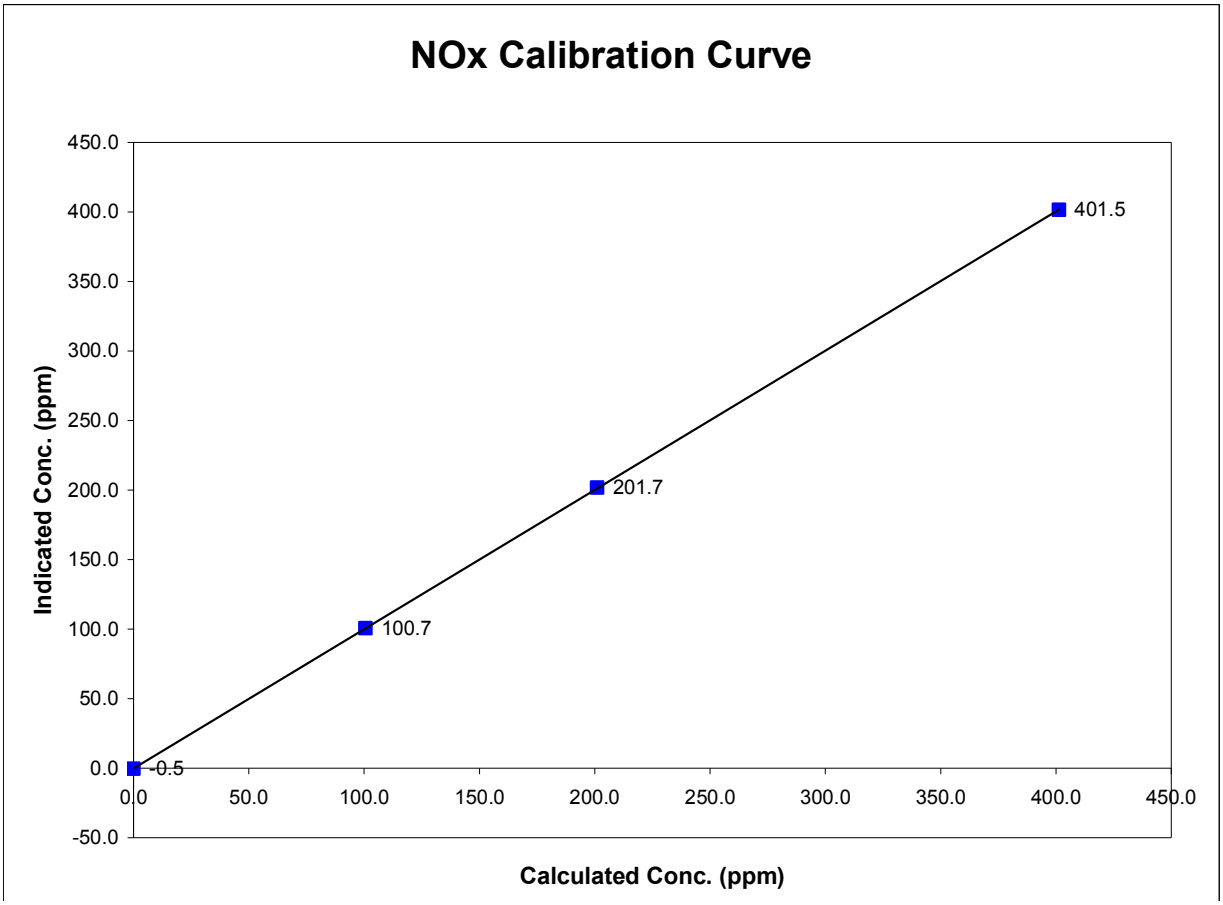
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	April 12, 2006	Previous Calibration	March 29, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	11:10	End Time (MST)	16:20
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	0.0000		
401.4	401.5	0.9997	Correlation Coefficient	0.999995
201.1	201.7	0.9970		
100.6	100.7	0.9988	Slope	0.998654
			Intercept	0.147834



Calibration Summary

Parameter **NO**

Air Monitoring Network **Palliser Airshed**

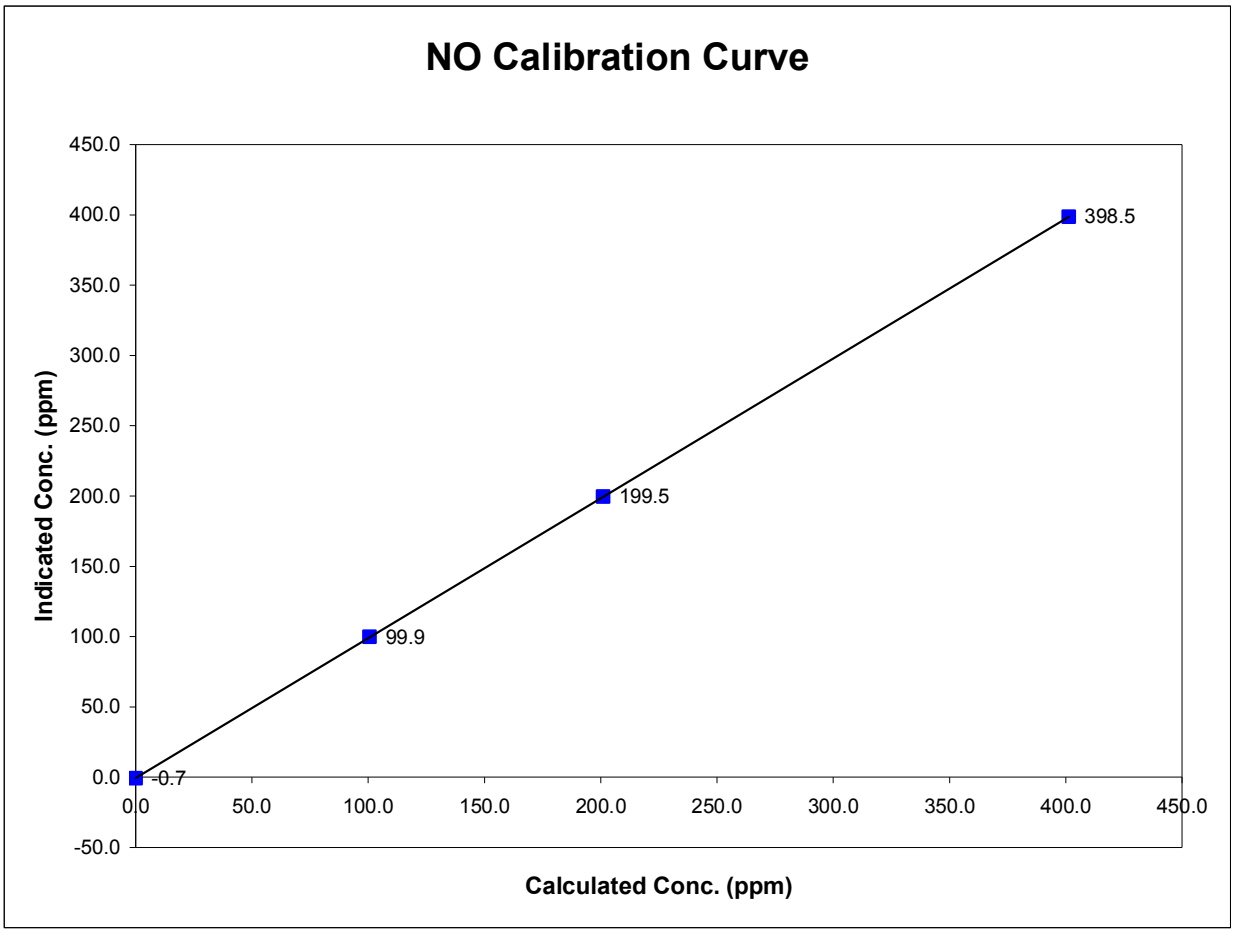
FOCUS AIR QUALITY MONITORING

Station Information

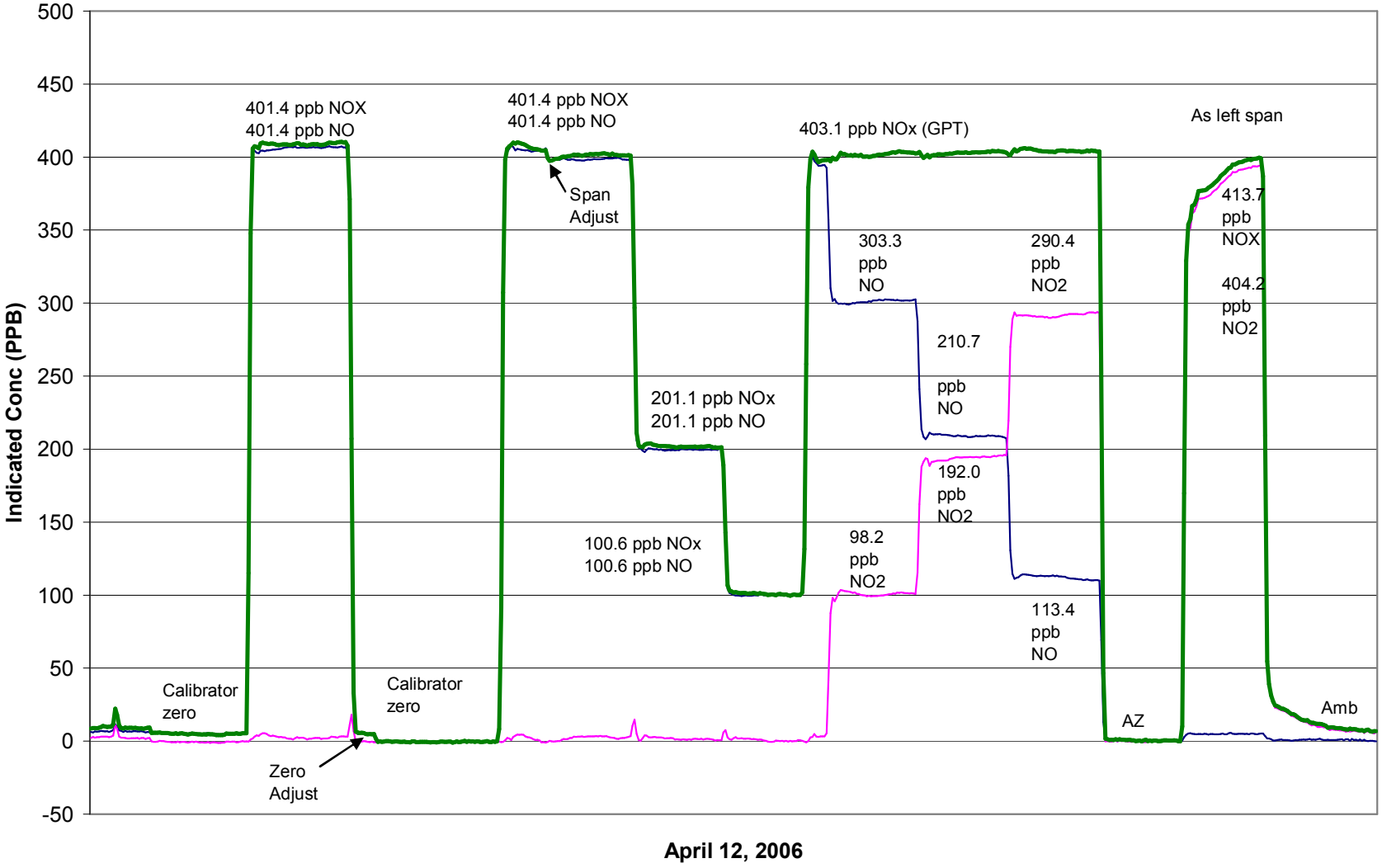
Calibration Date	April 12, 2006	Previous Calibration	March 29, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	11:10	End Time (MST)	16:20
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.7	N/A		
401.4	398.5	1.0072	Correlation Coefficient	0.999998
201.1	199.5	1.0078		
100.6	99.9	1.0071	Slope	1.005805
			Intercept	0.459229



NOx Calibration



Calibration Report

Parameter **THC**

Air Monitoring Network **Palliser Airshed**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	April 12, 2006	Previous Calibration	March 28, 2006
Station Number	101	Station Location	Crescent Heights

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

Start Time (MST)	10:00	End Time (MST)	17:40
Barometric Pressure	27.4 inches Hg	Station Temperature	19.0 Deg C
Calibrator	Environics 6100	Serial Number	3747
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	1.001897	Calculated slope	1.002885
Calculated intercept	-0.008479	Calculated intercept	-0.008452

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	12620	raw	12620	raw
THC zero counts	1557	raw	1557	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)
4990	0.00	0.00	0.10	N/A
4990	79.92	24.08	24.08	1.0003
4990	39.80	12.09	11.96	1.0105
4990	9.70	2.96	2.91	1.0168
zero	0.00	0.00	0.10	As Found Zero
4990	79.78	24.04	24.08	As Found Span
			Average Correction Factor	1.0092

Calculated value of As Found Response: 24.012 ppm Percent Change of As Found: 0.1%

	before calibration		after calibration	
Auto zero	0.06	ppm	0.01	ppm
Auto span	23.35	ppm	21.83	ppm

Notes: Initiated calibration; thought there was an error and redid calibration.
March 29th indicates internal span settings; cylinder did not supply sufficient pressure on the 28th.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter **THC**

Air Monitoring Network **Palliser Airshed**

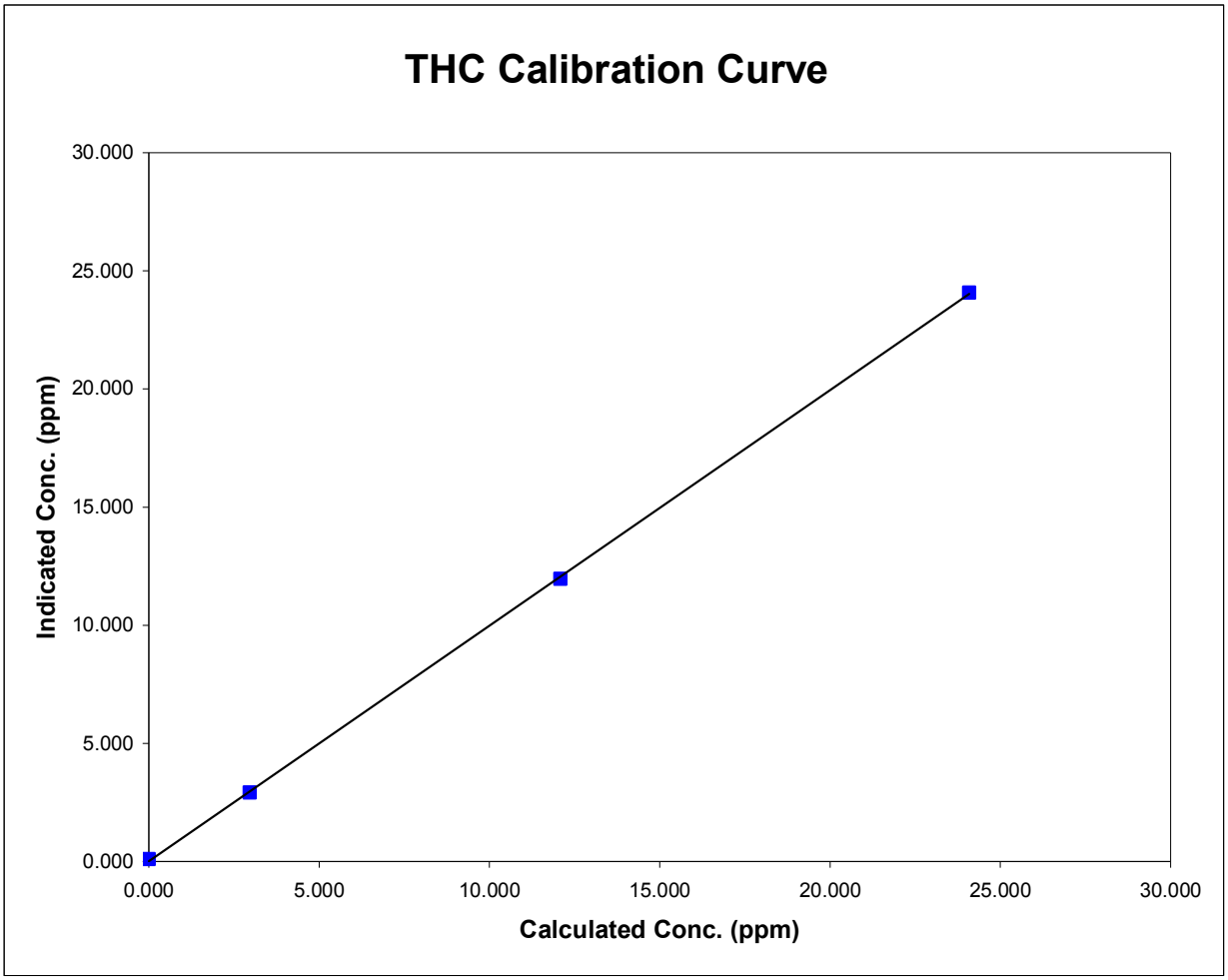
FOCUS AIR QUALITY MONITORING

Station Information

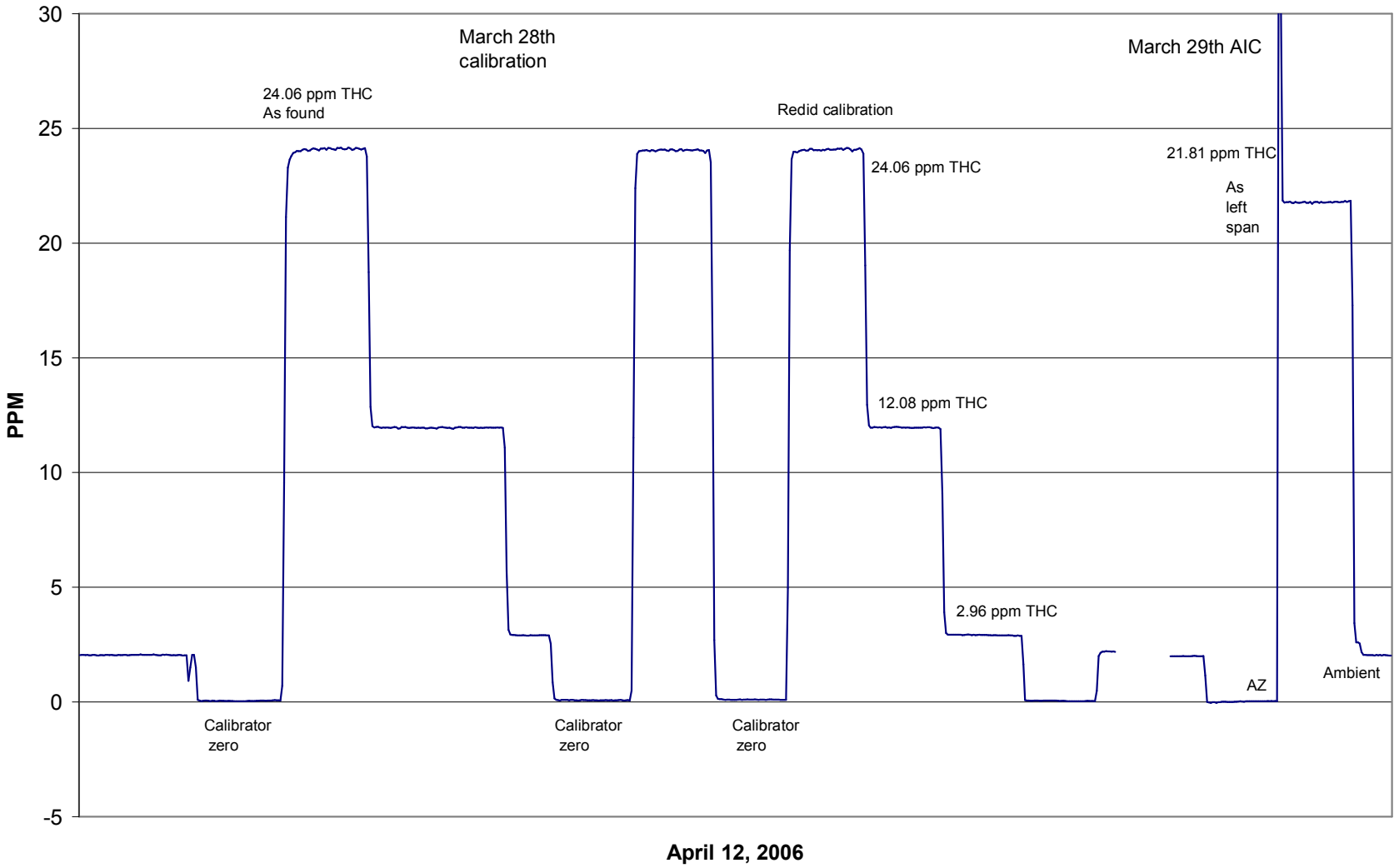
Calibration Date	April 12, 2006	Previous Calibration	March 28, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:00	End Time (MST)	17:40
Analyzer make/model	TEI model 51C-LT	Analyzer serial #	407505596

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.102	N/A		
24.083	24.077	1.0003	Correlation Coefficient	0.999932
12.089	11.963	1.0105		
2.964	2.915	1.0168	Slope	1.002885
			Intercept	-0.008452



THC Calibration



Calibration Report

Parameter **CO**

Air Monitoring Network **Palliser**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	April 13, 2006	Previous Calibration	March 28, 2006
Station Number	101	Station Location	Crescent Heights

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

Start Time (MST)	7:35	End Time (MST)	11:05
Barometric Pressure	27.2 in Hg	Station Temperature	19.0 Deg C
Calibrator	Environics 6100	Serial Number	3474
Cal Gas Conc	2998 ppm	Cal Gas Expiry Date	3/14/2008
		Cal Gas Cylinder #	BLM002248
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 1 volt	DACS channel #	11
	Before		After
Calculated slope	0.990087	Calculated slope	1.002885
Calculated intercept	-0.143400	Calculated intercept	0.052431

Analyzer make	TEI Model 48C	Analyzer serial # 436609887

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO coefficient	1.052		1.052	
CO bkg setting	8.56		9.112	
Lamp ratio	1.1503		1.1315	
Lamp intensity	200150	Hz	200000	Hz
Sample Flow	1.000	LPM	0.998	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)
4992	0.00	0.00	0.00	N/A
4992	49.94	29.69	29.58	1.0039
4992	19.96	11.94	11.82	1.0103
4992	9.98	5.98	5.87	1.0184
4992	0.00	0.00	0.55	0.0000
4992	49.94	29.69	30.89	0.9613
			Average Correction Factor	1.0109

Calculated value of As Found Response: 29.896 ppm Percent Change of As Found: -0.7%

	before calibration		after calibration	
Auto zero	0.30	ppm	0.10	ppm
Auto span	20.77	ppm	20.41	ppm

Notes: Zero and span adjustments made.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter **CO**

Air Monitoring Network **Palliser**

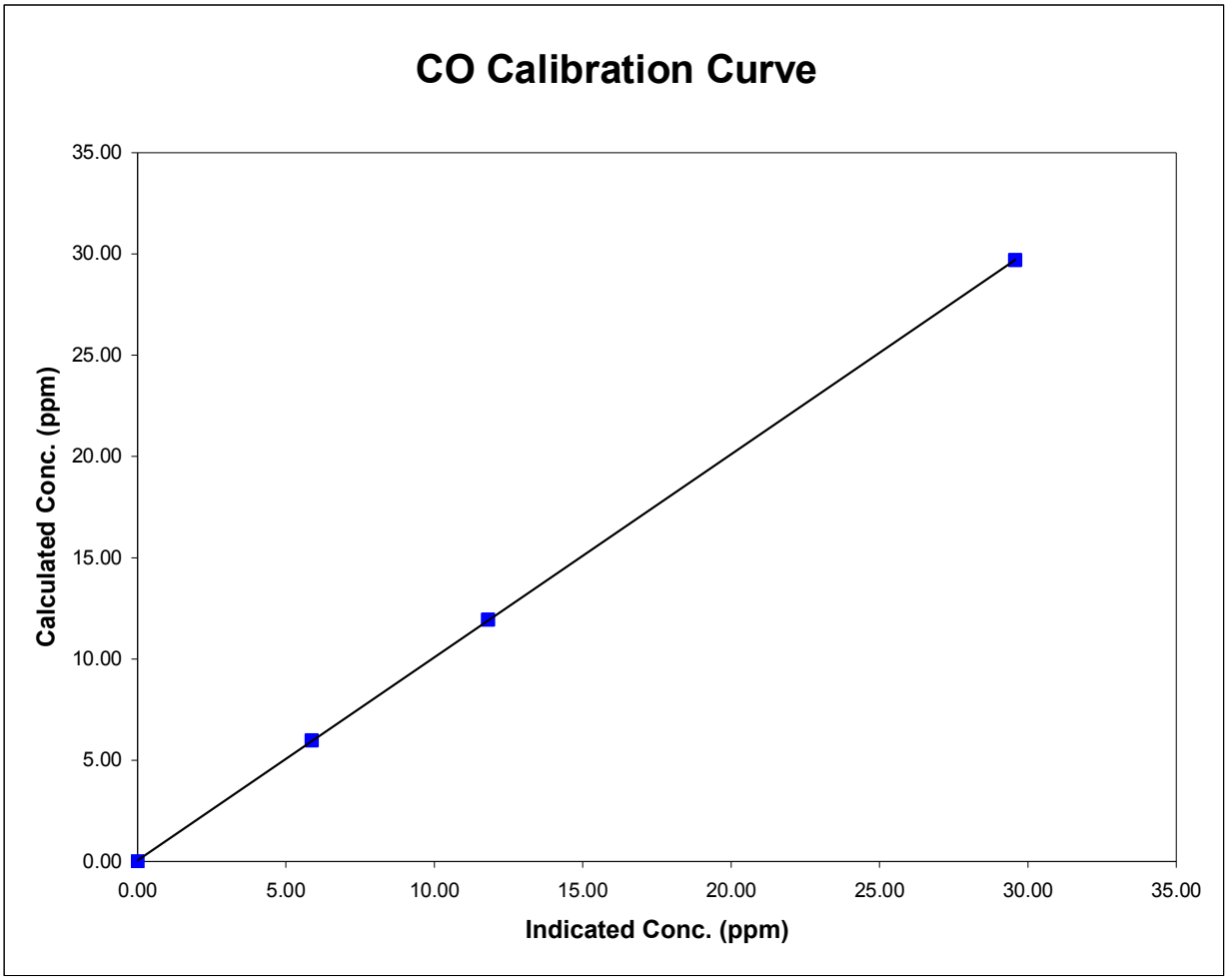
FOCUS AIR QUALITY MONITORING

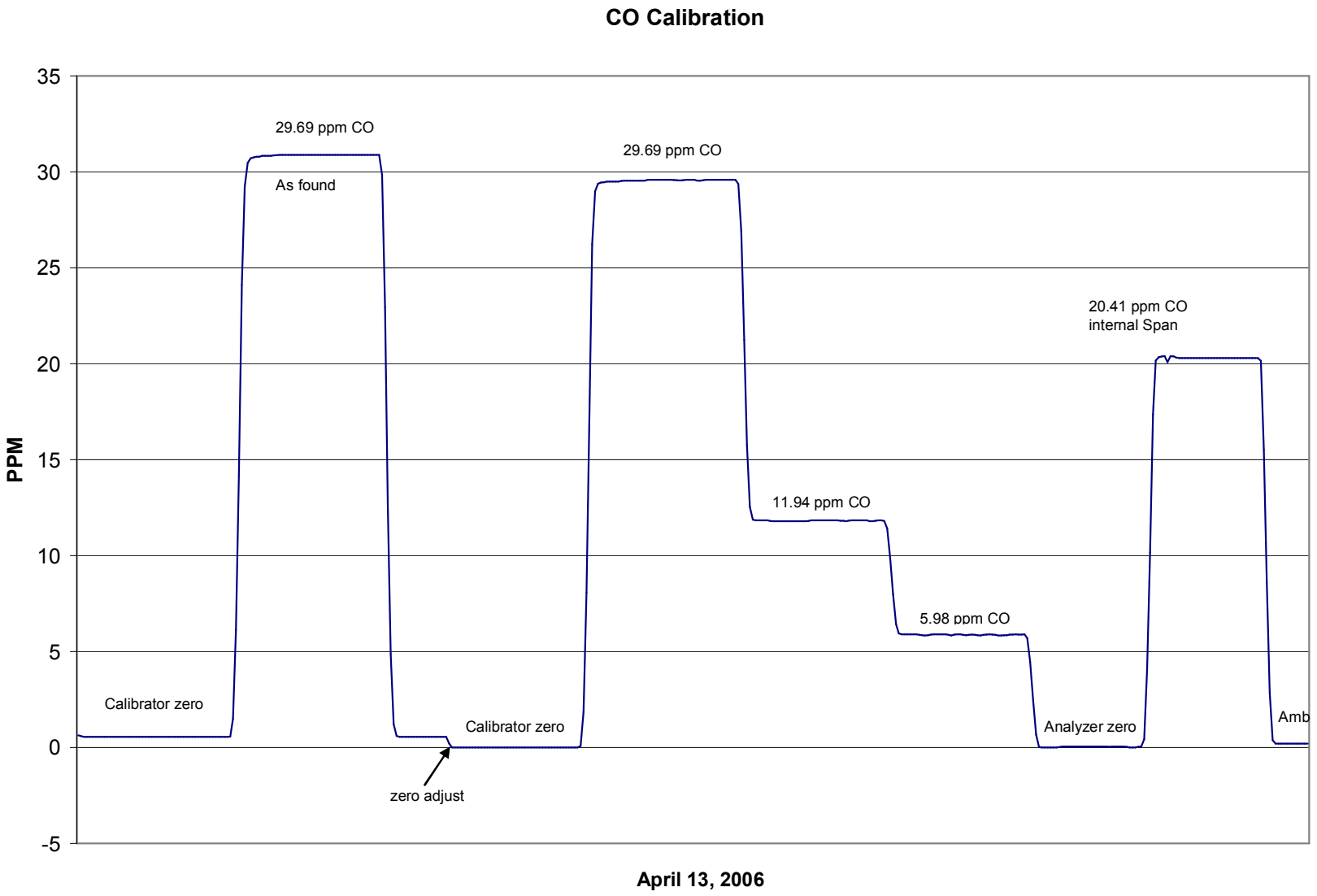
Station Information

Calibration Date	April 13, 2006	Previous Calibration	March 28, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	7:35	End Time (MST)	11:05
Analyzer make/model	TEI Model 48C	Analyzer serial #	436609887

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.00	0.00	N/A		
29.69	29.58	1.0039	Correlation Coefficient	0.999988
11.94	11.82	1.0103		
5.98	5.87	1.0184	Slope	1.002885
			Intercept	0.052431




CO Calibration
35
30
25
20
15
10
5
0
-5
PPM
29.69 ppm CO
As found
29.69 ppm CO
20.41 ppm CO
internal Span
11.94 ppm CO
5.98 ppm CO
Calibrator zero
Calibrator zero
Analyzer zero
Amb
zero adjust
April 13, 2006

Calibration Report

Parameter **PM2.5**

Air Monitoring Network **Palliser Airshed**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	April 13, 2006	Previous Calibration	March 29, 2006
Station Number	1	Station Location	Crescent Heights
Reason: Routine	Install	Removal	Other:
Start Time (MST)	8:00	End Time (MST)	
Barometric Pressure	0.907 ATM	Station Temperature	17.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15
	Before		After
DACS Scale High	450	DACS slope	450
DACS Scale Low	-50	DACS intercept	-50

Analyzer Information

Analyzer make	R&P	Control Unit serial #	140AB237960110
Analyzer model	TEOM 1400AB	Sensor Unit serial #	140AB237960110

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	16.67	SLPM	16.67	SLPM
Filter Load	46	%	19	%
Ko Factor	12758		12758	
Temperature	14.1	Deg C	14.1	Deg C
Pressure	0.907	ATM	0.907	ATM

Calibration Data

Parameter	Set Point	TEOM Reading (as found)	Tolerance	TEOM Reading (after adjustments)
zero flow - main	0.0	0.01	0.00	0.02
zero flow - auxillary	0.0	-0.01	0.01	0.01
flow recovery - main	45 - 60 Seconds	40.0	45 - 60 Seconds	45.0
flow recovery - aux	46 - 60 Seconds	40.0	46 - 60 Seconds	25.0
Temperature	measured	4.0	+/- 1.0 Deg C	13.6
Pressure	measured	0.906	+/- 1.5% Δ_{ATM}	0.906
Total Flow	16.67 SLPM	16.20		16.66
Auxiliary flow	13.67 SLPM	13.35	+/- 1.0 SLPM	13.76
Main flow	3.0 SLPM	2.870	+/- 0.2 SLPM	3.000
Leak Check - main	0.0	0.02	<0.15 SLPM	0.02
Leak Check - aux	0.0	0.00	<0.15 SLPM	0.00
Ko Factor (w/o filter)	measured	N/A	filter weight (g)	0.11352
Ko Factor (w/ filter)	measured	N/A	% Ko difference	N/A

Notes: Main and Auxiliary flows were low… Adjusted all flows…
Replaced inlet filter and bypass Balston filter.

Calibration Performed By: Kelly Baragar

Calibration Report

FOCUS INTEC
Air Quality Monitoring

Parameter **Wind Speed & Direction**

Air Monitoring Network **Palliser Airshed**

Station Information

Calibration Date	April 12, 2006	Previous Calibration	June 27, 2005
Station Number	1	Station Location	Crescent Heights

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

Start Time (MST)	14:00	End Time (MST)	17:10
Barometric Pressure	0.912 ATM	Ambient Temperature	14.9 Deg C

DACS Information

DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 1 volt	DACS channel #	3 & 4

Sensor Information

Wind Direction Calibration Data

Sensor make/model: Met One Model 020C-1 Sensor serial #: C4769

Actual Value (Degrees)	Indicated Value (Degrees)	Correction factor (Cc/Ic)
0.0	1.7	N/A
90.0	87.2	1.0321
180.0	174.3	1.0327
270.0	266.6	1.0128
360.0	355.8	1.0118

Sensor Make	Met One 020C	Sensor S/N	C4769
	Before		After
Calculated slope	1.001553	Calculated slope	1.013770
Calculated intercept	-1.380762	Calculated intercept	0.441079

Wind Speed Calibration Data

Sensor make/model: Met One Model 010C-1 Sensor serial #: C4492

Actual Value (km/hr)	Indicated Value (km/hr)	Correction factor (Cc/Ic)
1.0	0.2	N/A
20.2	19.3	1.0446
77.7	76.7	1.0130

Sensor Make	Met One 010C	Sensor S/N	C4492
	Before		After
Calculated slope	1.013013	Calculated slope	1.002875
Calculated intercept	-0.837100	Calculated intercept	0.784463

Notes: Wind head was re-installed at 19^{o} West of magnetic North (same noted on removal).
Replaced all bearings.

Calibration Performed By: Kelly Baragar

Calibration Summary

FOCUS INTEC
Air Quality Monitoring

Parameter **Wind Speed**

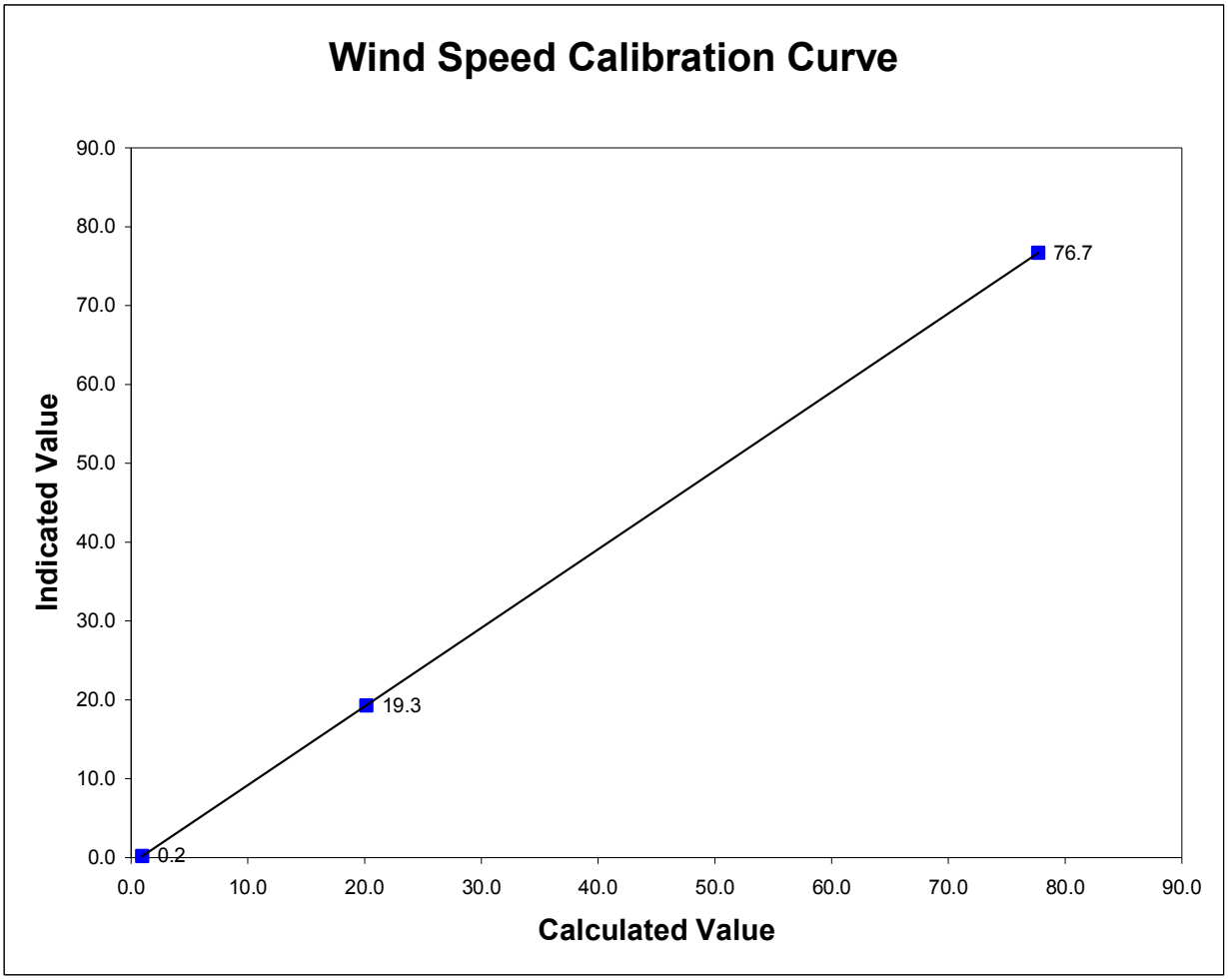
Air Monitoring Network **Palliser Airshed**

Station Information

Calibration Date	April 12, 2006	Previous Calibration	June 27, 2005
Station Number	1	Station Location	Crescent Heights
Start Time (MST)	14:00	End Time (MST)	17:10
Analyzer make/model	Met One Model 010C-1	Analyzer serial #	C4492

Calibration Data

Actual Value (km/hr)	Indicated Value (km/hr)	Correction factor (Cc/Ic)	Statistical Evaluation	
1.0	0.2	N/A		
20.2	19.3	1.0446	Correlation Coefficient	1.000000
77.7	76.7	1.0130		
			Slope	1.002875
			Intercept	0.784463



Calibration Summary

FOCUS INTEC
Air Quality Monitoring

Parameter **Wind Direction**

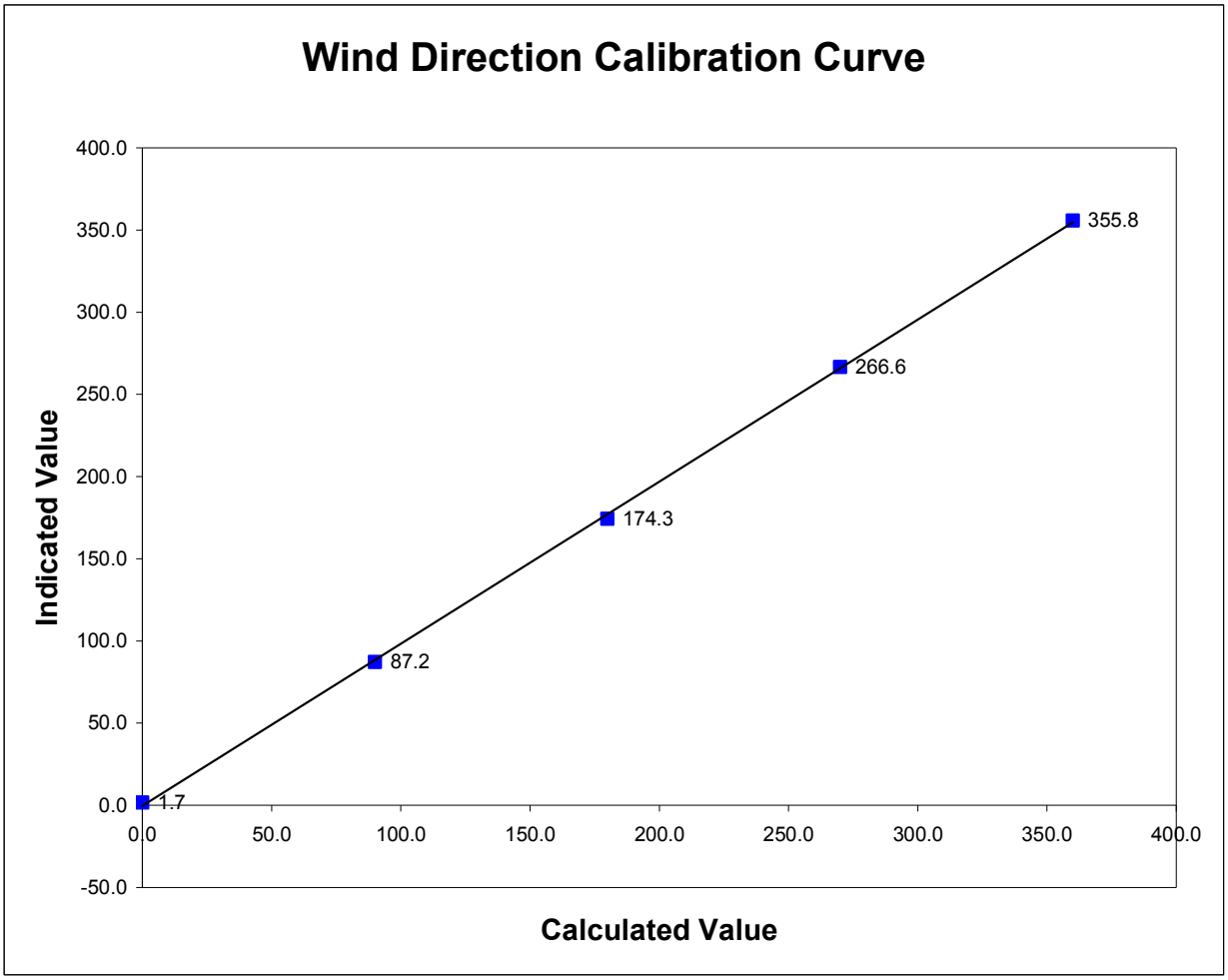
Air Monitoring Network **Palliser Airshed**

Station Information

Calibration Date	April 12, 2006	Previous Calibration	June 27, 2005
Station Number	1	Station Location	Crescent Heights
Start Time (MST)	14:00	End Time (MST)	17:10
Analyzer make/model	Met One Model 020C-1	Analyzer serial #	C4769

Calibration Data

Actual Value (Degrees)	Indicated Value (Degrees)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.7	N/A		
360.0	355.8	1.0118	Correlation Coefficient	0.999802
270.0	266.6	1.0128		
180.0	174.3	1.0327	Slope	1.013770
90.0	87.2	1.0321		
			Intercept	0.441079



Wind Speed & Direction Calibration