



Palliser Airshed Society

Ambient Air Monitoring Network Summary

February 2006

Prepared By:



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March 16, 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 – February 2006

Enclosed is the PAS Ambient Monitoring Report for the month of **February 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 98% uptime for the month of February. There were no significant events leading to emergency response for the month of February.

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

- Monthly average concentrations of NO₂ was 9.2 ppb
- Monthly average concentrations for O₃ was 23.1 ppb
- Monthly average concentrations for CO was 0.22 ppm
- Monthly average concentrations for THC was 2.3 ppm
- Monthly average concentrations for PM_{2.5} was 2.3 µg/m³

Passive Monitoring – Six Stations throughout the PAS zone:

The following are the ranges for February 2006 recorded by the six passive stations located throughout the PAS zone.

- Monthly average concentrations for SO₂ passives ranged from 0.4 ppb to 0.5 ppb
- Monthly average concentrations for NO₂ passives ranged from 4.2 ppb to 8.5 ppb
- Monthly average concentrations for O₃ passives ranged from 23.7 ppb to 35.0 ppb

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

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AQM Environmental Specialist



Continuous Monitoring

Ambient Air Monitoring Network

Crescent Heights Station

General Station Issues

On February 20th there were intermittent power shortages which resulted in three (3) hours of downtime for all of the analyzers and instruments.

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	µg/m ³	There were 5 hours of data removed due to excessive instrument drift.
Wind Speed	Met One	010C	kph	No operational issues observed.
Wind Direction	Met One	020C	Deg	No operational issues observed.
Ambient Temperature	Met One	083D	DegC	No operational issues observed.
Relative Humidity	Met One	083D	%	No operational issues observed.
Solar Radiation	Met One	096-1	W/m ²	No operational issues observed.
Data Acquisition System	Titan Logix	AP1000		No operational issues observed.



February 2006 Monthly Overall Summary Report Ambient Air Quality Data

Feb-2006		Palliser Airshed Society					Maximum Recorded Values						Operational Time (%)
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		Conc	1-hr			24-hr / 8-hr		
	1-hr	24-hr			1-hr	24-hr		Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	
NO (ppb)			Crescent Heights	3.9	-	-	130.2	Feb-03 08:00	1.3	SSW	18.6	Feb-03	99.6%
NO ₂ (ppb)	212	106	Crescent Heights	9.2	0	0	39.8	Feb-11 19:00	3.4	SE	15.1	Feb-25	99.6%
NO _x (ppb)			Crescent Heights	13.0	-	-	150.2	Feb-03 08:00	1.3	SSW	32.6	Feb-03	99.6%
O ₃ (ppb)	82		Crescent Heights	23.1	0	-	39.2	Feb-19 14:00	18.8	SW	32.1	Feb-26	99.6%
O ₃ (ppb) - 8-hr	65		Crescent Heights		0						36.7	Feb-26	
CO (ppm)	13		Crescent Heights	0.22	0	-	1.7	Feb-03 08:00	1.3	SSW	0.4	Feb-03	99.6%
CO (ppm) - 8-hr	5		Crescent Heights		0						0.7	Feb-03	
THC (ppm)			Crescent Heights	2.26	-	-	3.6	Feb-17 07:00	11.3	WSW	3.2	Feb-16	99.6%
H ₂ S (ppb)	10	3	Crescent Heights										
PM _{2.5} (µg/m ³)		30 ^a	Crescent Heights	2.3		0	17.1	Feb-03 08:00	1.3	SSW	4.9	Feb-25	98.8%
RH (%)			Crescent Heights	64.2	-	-	-	-	-	-	-	-	99.6%
SR (W/m ²)			Crescent Heights	87.0	-	-	-	-	-	-	-	-	99.6%
Temp (°C)			Crescent Heights	-4.1	-	-	-	-	-	-	-	-	99.6%
WSPD v (km/hr)			Crescent Heights	10.0	-	-	32.4	Feb-01 05:00	32.4	SW	20.8	9-Feb	99.6%
WSPD s (km/hr)			Crescent Heights	10.2	-	-	32.5	Feb-01 05:00	32.5	SW	21.0	9-Feb	99.6%
WDIR (Deg)			Crescent Heights	W	-	-	-	-	-	-	-	-	99.6%

Note: ^a the draft 1-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: Crescent Heights
 Station Owner: PAS

Air Quality Index (AQI)

Monitoring Dates: February 1, 2006 to March 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:	619
Number of 1-hr Fair Readings:	0
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-Feb-06	16	N	17	17	N	17	16	15	14	14	14	15	16	17	15	14	12	13	14	14	13	13	14	
2-Feb-06	11	7	5	N	3	3	3	4	4	7	4	4	4	5	5	6	6	6	5	5	4	3	3	3
3-Feb-06	2	3	N	4	3	4	4	7	14	4	6	10	13	11	14	15	14	9	8	5	5	9	12	11
4-Feb-06	12	N	7	5	9	16	N	18	19	N	19	18	17	16	15	13	13	14	16	16	15	15	14	13
5-Feb-06	N	8	14	11	11	7	8	8	7	8	8	10	10	11	10	11	11	12	15	13	10	8	10	N
6-Feb-06	9	10	10	6	6	5	5	6	4	8	12	13	13	15	16	15	14	8	7	6	8	6	N	6
7-Feb-06	5	5	5	3	4	4	4	6	9	4	7	9	10	13	13	12	12	13	10	5	N	6	6	6
8-Feb-06	5	7	10	8	8	10	9	9	11	12	12	12	15	18	16	16	15	14	8	11	N	16	14	14
9-Feb-06	15	17	17	17	17	16	15	15	15	16	17	17	18	18	17	15	16	14	14	N	15	15	13	12
10-Feb-06	13	11	11	10	8	6	7	7	9	12	13	15	16	17	17	17	15	13	N	6	5	7	10	10
11-Feb-06	11	12	13	14	14	13	10	6	6	10	13	14	17	17	18	17	17	N	7	9	8	7	7	6
12-Feb-06	4	3	7	9	9	10	9	11	11	14	15	N	17	15	14	11	N	10	7	6	5	10	9	11
13-Feb-06	9	9	10	10	9	10	9	10	10	11	11	10	15	17	14	N	12	11	9	16	15	12	14	14
14-Feb-06	13	14	14	12	9	9	10	8	9	12	14	14	15	15	N	14	14	14	13	8	9	9	9	6
15-Feb-06	8	9	6	6	4	4	5	4	8	13	13	13	16	N	15	16	16	13	11	14	16	16	17	17
16-Feb-06	16	16	17	16	14	15	15	14	15	16	16	16	N	16	15	15	15	14	14	13	10	10	9	5
17-Feb-06	9	10	10	9	10	8	7	7	8	11	12	N	14	15	16	16	16	15	15	14	15	15	15	15
18-Feb-06	15	15	14	14	15	14	13	13	13	13	N	12	12	13	16	16	15	13	10	8	6	6	7	7
19-Feb-06	5	6	5	7	8	8	8	8	10	N	16	17	19	19	20	19	18	15	10	10	7	9	9	12
20-Feb-06	13	P	P	P	11	11	10	6	N	12	12	12	17	18	18	17	17	15	11	16	15	14	12	12
21-Feb-06	14	13	14	13	12	11	13	N	14	14	15	16	17	N	18	18	18	15	9	10	10	8	10	13
22-Feb-06	12	9	8	8	7	6	N	4	14	17	17	18	N	N	N	N	N	16	13	7	6	8	9	9
23-Feb-06	11	7	N	5	6	5	6	5	8	12	15	17	17	18	18	16	17	17	17	16	16	16	15	15
24-Feb-06	16	N	17	16	16	16	16	16	16	16	16	16	16	17	17	16	16	16	12	11	9	8	8	9
25-Feb-06	N	12	13	7	6	11	13	16	17	18	18	18	18	18	17	14	15	16	9	8	7	7	7	N
26-Feb-06	15	15	15	16	16	18	19	14	12	11	16	18	19	19	19	19	19	18	15	16	15	12	N	11
27-Feb-06	12	12	10	10	11	10	11	10	11	13	N	N	N	N	N	N	N	N	N	N	17	16	15	15
28-Feb-06	14	14	N	14	13	9	9	9	10	12	12	13	13	13	12	12	11	13	13	13	14	15	15	14



PAS - Crescent Heights - Nitrogen Dioxide Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

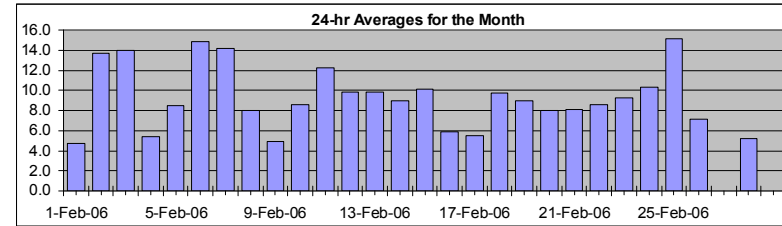
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: February 1, 2006 to March 1, 2006

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

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	39.8 ppb	11-Feb	19:00	20:00
Maximum 24-hr Average:	15.1 ppb	25-Feb		



AIC Time:	30 hrs	Operational Time:	633 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	34.2	23.9	11.8	6.7	4.3	2.6	1.8	9.2 ppb	6.7 ppb

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Feb-06	3	3	3	4	A	5	4	5	5	5	5	5	5	3	3	4	9	10	7	3	4	4	5	3	4.7	9.9	
2-Feb-06	5	8	10	A	14	11	14	19	17	16	9	11	12	16	14	16	16	23	20	20	12	11	11	11	13.7	23.4	
3-Feb-06	10	11	A	15	15	15	17	18	20	14	12	8	3	10	7	9	10	33	35	20	22	9	5	5	14.0	34.9	
4-Feb-06	5	A	17	21	17	4	3	3	3	2	2	3	3	3	3	4	5	5	4	3	4	3	3	3	5.4	20.8	
5-Feb-06	A	18	4	9	6	12	10	8	9	11	12	6	7	8	8	8	8	8	4	5	9	12	6	A	8.5	18.4	
6-Feb-06	12	5	6	11	14	18	20	24	18	10	6	6	7	4	4	7	10	23	29	25	33	27	A	24	14.9	33.3	
7-Feb-06	21	19	23	14	17	16	17	23	27	16	7	4	8	5	7	8	9	6	4	9	15	A	27	24	14.2	27.4	
8-Feb-06	20	9	5	9	9	5	7	11	7	6	7	6	7	3	6	3	5	7	18	10	A	7	8	7	8.0	20.1	
9-Feb-06	4	2	2	2	2	3	3	5	5	3	2	4	2	3	5	9	6	10	9	A	7	5	9	11	5.0	11.2	
10-Feb-06	5	8	7	9	10	15	12	12	9	6	6	5	3	2	3	3	7	9	A	25	16	11	5	7	8.5	25.2	
11-Feb-06	5	4	3	3	3	3	6	17	18	10	6	5	3	3	3	5	5	A	24	40	35	29	29	24	12.3	39.8	
12-Feb-06	18	14	8	5	4	4	6	4	6	4	2	3	4	5	7	14	A	18	23	23	18	12	16	9	9.9	23.3	
13-Feb-06	10	8	5	4	7	5	8	10	10	8	8	10	6	5	11	A	20	21	22	7	8	13	9	8	9.8	22.0	
14-Feb-06	6	6	4	6	12	13	11	16	13	9	6	5	5	5	A	5	4	5	6	14	12	12	13	19	9.0	18.8	
15-Feb-06	19	11	17	14	16	16	22	17	12	6	5	6	4	A	6	5	7	12	16	7	5	3	3	3	10.1	21.5	
16-Feb-06	3	3	3	5	6	5	5	6	5	3	2	2	A	3	3	6	4	5	6	6	11	12	11	19	5.8	18.7	
17-Feb-06	9	8	8	9	6	8	8	10	7	5	4	A	4	3	2	2	3	6	6	5	3	4	3	3	5.5	9.8	
18-Feb-06	3	4	6	5	4	4	5	6	5	3	A	5	10	8	6	6	9	11	16	16	20	27	30	13	9.7	29.7	
19-Feb-06	18	14	16	9	7	7	7	7	5	A	4	3	3	3	3	5	6	9	16	12	17	10	13	12	8.9	17.6	
20-Feb-06	6	P	P	P	6	8	9	15	A	8	8	8	5	6	5	5	7	9	17	7	7	6	9	9	8.0	17.1	
21-Feb-06	5	7	6	7	8	10	8	A	9	6	4	3	3	4	3	3	4	7	19	15	15	21	13	4	8.1	21.2	
22-Feb-06	7	15	11	9	7	8	A	16	5	2	1	1	1	2	2	2	2	4	7	11	26	27	18	14	8.6	26.6	
23-Feb-06	10	16	A	22	27	22	16	19	15	9	3	2	4	3	3	5	4	5	6	5	5	4	4	4	9.2	26.7	
24-Feb-06	4	A	6	4	4	5	4	4	4	4	4	3	2	2	3	4	5	5	12	14	37	36	34	38	10.3	38.4	
25-Feb-06	A	18	14	24	26	17	17	8	6	4	4	4	4	5	6	13	10	8	23	34	29	28	31	A	15.1	33.8	
26-Feb-06	8	6	7	5	5	3	1	11	17	18	9	4	2	3	4	3	4	5	10	8	7	13	A	11	7.2	17.8	
27-Feb-06	7	6	9	9	8	10	13	14	11	5	C	C	C	C	C	C	A	7	6	5	3	4	5	4	N	13.8	
28-Feb-06	5	6	A	6	8	11	7	10	8	4	4	4	4	4	3	3	3	6	5	5	4	4	3	4	3	5.2	10.6
																										N	0.0
Hourly Avg	8.7	9.2	8.4	9.2	9.9	9.4	9.7	11.7	10.3	7.4	5.4	4.9	4.6	4.6	5.1	6.1	7.0	10.1	13.7	13.2	14.2	13.0	12.5	11.3			
Hourly Max	21.0	19.4	23.0	24.0	26.7	22.3	21.5	24.3	27.4	17.8	12.4	10.5	12.5	16.2	14.0	16.5	20.4	32.5	34.9	39.8	37.1	35.6	34.3	38.4			

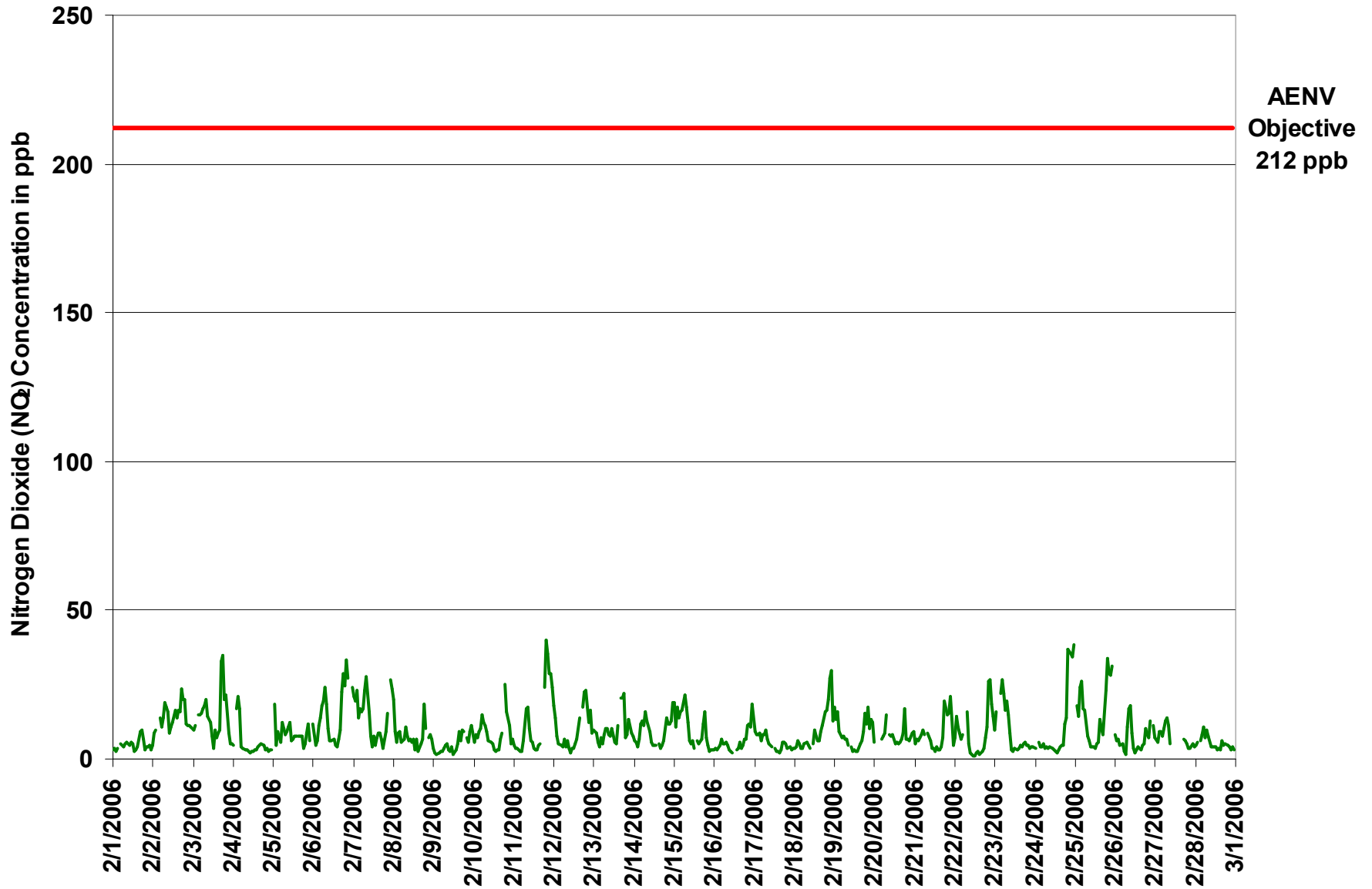


Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

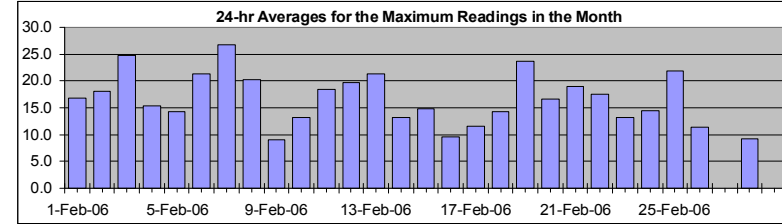
Nitrogen Dioxide (NO₂)

Monitoring Dates: February 1, 2006 to March 1, 2006

Summary

Maximum 1-hr Value:	114.1	ppb	7-Feb	8:00 9:00
Maximum 24-hr Value:	26.8	ppb	7-Feb	

AIC Time:	30 hrs	Operational Time:	633 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	47.7	39.9	24.2	13.0	7.1	3.7	2.9	16.6 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-Feb-06	4	35	26	44	A	35	20	20	25	29	27	13	7	3	5	6	25	14	13	6	7	6	14	4	16.9	44.1
2-Feb-06	7	12	12	A	17	17	18	22	20	17	13	13	16	20	24	19	24	30	26	35	16	12	14	12	18.1	34.7
3-Feb-06	12	13	A	18	17	18	25	31	31	23	21	18	5	27	22	32	27	43	40	33	32	28	45	8	24.7	45.0
4-Feb-06	18	A	19	43	34	6	27	31	20	4	3	14	7	4	9	10	17	8	26	6	34	4	4	4	15.3	42.6
5-Feb-06	A	36	9	22	9	16	19	11	12	13	18	9	11	13	11	10	11	13	5	14	13	25	11	A	14.2	36.0
6-Feb-06	16	9	13	14	23	22	30	31	30	18	10	8	18	6	8	8	13	38	33	33	43	38	A	27	21.3	42.8
7-Feb-06	25	28	48	20	36	31	28	29	114	22	12	6	11	6	17	11	12	11	12	20	25	A	45	45	26.8	114.1
8-Feb-06	27	12	8	15	11	11	24	43	27	15	37	9	18	11	36	4	8	13	46	27	A	11	27	26	20.3	46.3
9-Feb-06	8	3	3	3	4	4	4	8	8	4	4	9	3	7	9	15	15	18	22	A	12	7	19	20	9.1	22.1
10-Feb-06	7	11	11	11	13	17	18	17	11	8	8	14	6	3	8	5	11	16	A	41	25	17	7	20	13.3	40.6
11-Feb-06	15	6	21	11	3	4	11	30	26	17	7	8	5	5	5	7	6	A	33	54	48	35	38	29	18.4	53.6
12-Feb-06	26	20	20	27	17	9	33	7	20	5	23	9	6	7	9	21	A	24	55	30	26	20	27	10	19.7	55.1
13-Feb-06	22	12	7	6	36	6	42	41	28	11	15	14	9	12	14	A	39	39	31	12	14	35	14	33	21.4	41.7
14-Feb-06	9	11	6	10	14	14	14	21	18	12	9	8	8	11	A	7	5	6	9	20	25	17	18	33	13.2	32.9
15-Feb-06	30	19	25	18	18	28	28	24	15	10	12	11	6	A	8	8	8	16	24	10	8	4	6	4	14.8	29.6
16-Feb-06	5	6	5	7	8	7	13	13	7	4	3	3	A	5	7	15	7	8	9	9	17	16	15	30	9.5	30.0
17-Feb-06	25	10	23	25	12	12	26	19	18	7	11	A	5	4	3	3	4	7	11	7	5	25	4	5	11.7	25.7
18-Feb-06	5	6	15	7	7	5	11	8	6	4	A	7	14	11	8	9	13	25	25	21	28	34	37	22	14.2	37.4
19-Feb-06	57	34	25	13	31	22	24	12	7	A	6	4	32	3	4	44	31	14	33	40	35	17	29	31	23.7	56.5
20-Feb-06	14	P	P	P	13	15	17	29	A	12	13	24	8	9	7	7	11	15	44	29	18	13	14	18	16.6	44.1
21-Feb-06	10	12	8	14	15	44	39	A	19	11	5	25	14	37	7	5	5	14	38	21	21	34	32	6	19.0	43.5
22-Feb-06	16	28	41	12	9	34	A	30	18	4	3	2	2	3	3	3	3	8	10	21	45	34	30	45	17.6	45.1
23-Feb-06	14	41	A	26	30	29	19	24	20	16	5	3	6	4	4	6	5	10	10	7	7	5	5	5	13.2	40.8
24-Feb-06	5	A	9	5	6	7	5	5	5	6	5	10	4	3	4	8	8	6	20	32	43	40	44	53	14.4	53.3
25-Feb-06	A	49	22	34	34	24	34	12	11	6	5	6	6	7	11	15	15	13	33	39	36	32	38	A	21.8	48.8
26-Feb-06	10	9	11	6	6	5	2	19	21	22	18	5	4	5	6	5	7	7	23	12	9	31	A	17	11.3	31.1
27-Feb-06	12	7	12	14	11	13	24	26	16	7	C	C	C	C	C	C	A	10	7	6	4	6	44	23	N	43.8
28-Feb-06	7	16	A	14	13	19	10	12	10	7	5	7	20	5	7	6	12	6	7	8	7	4	8	4	9.2	20.3
																									N	0.0
Hourly Avg	15.6	17.8	16.6	16.9	16.6	17.0	21.0	21.3	20.9	11.7	11.4	9.9	9.7	8.9	9.8	11.1	13.2	16.0	23.9	22.0	22.3	20.4	22.6	20.5		
Hourly Max	56.5	48.8	47.7	44.1	36.3	43.5	41.7	42.7	114.1	28.6	36.8	25.1	31.7	37.3	35.6	43.7	39.0	42.6	55.1	53.6	47.6	40.1	45.4	53.3		

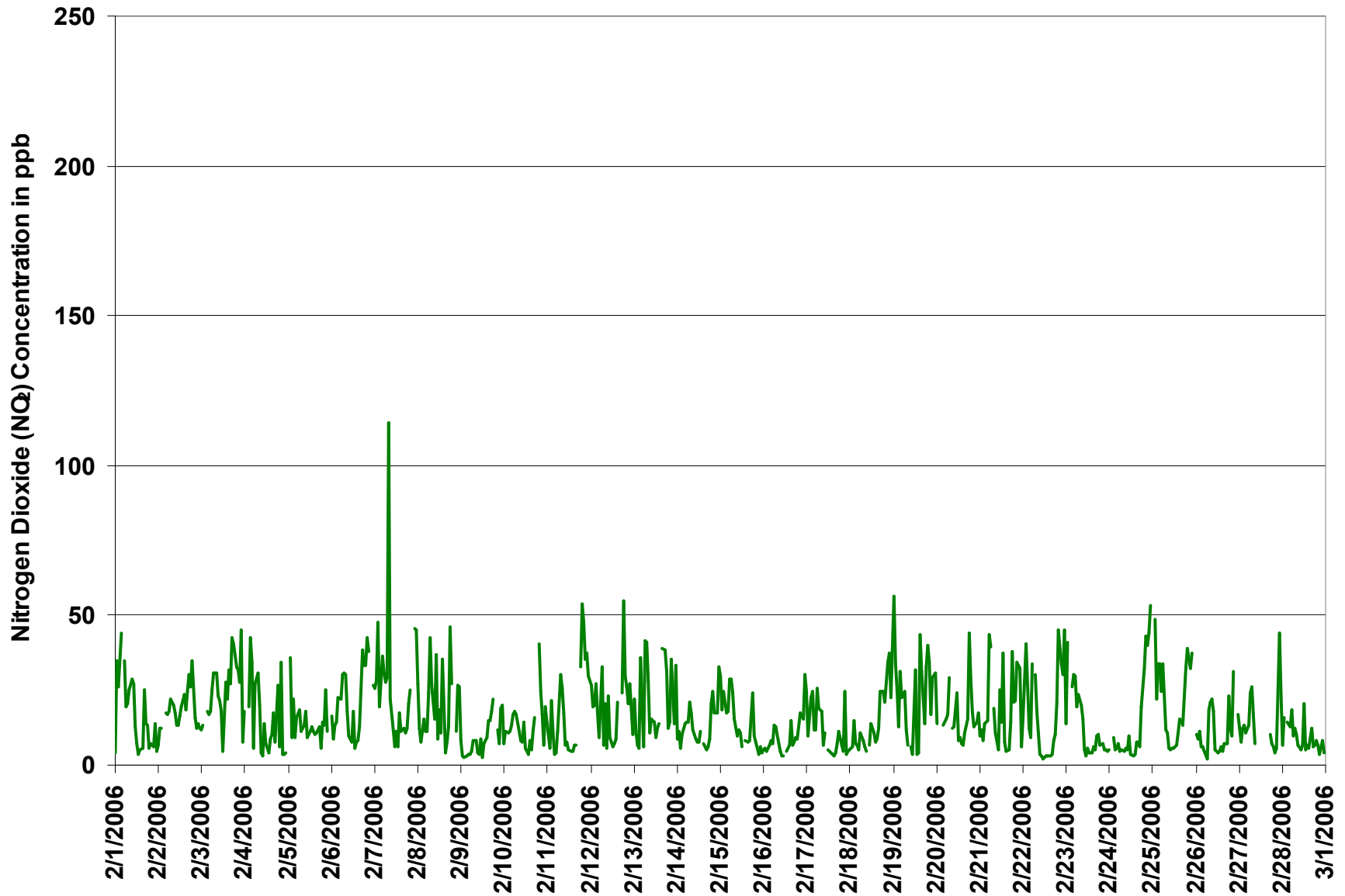
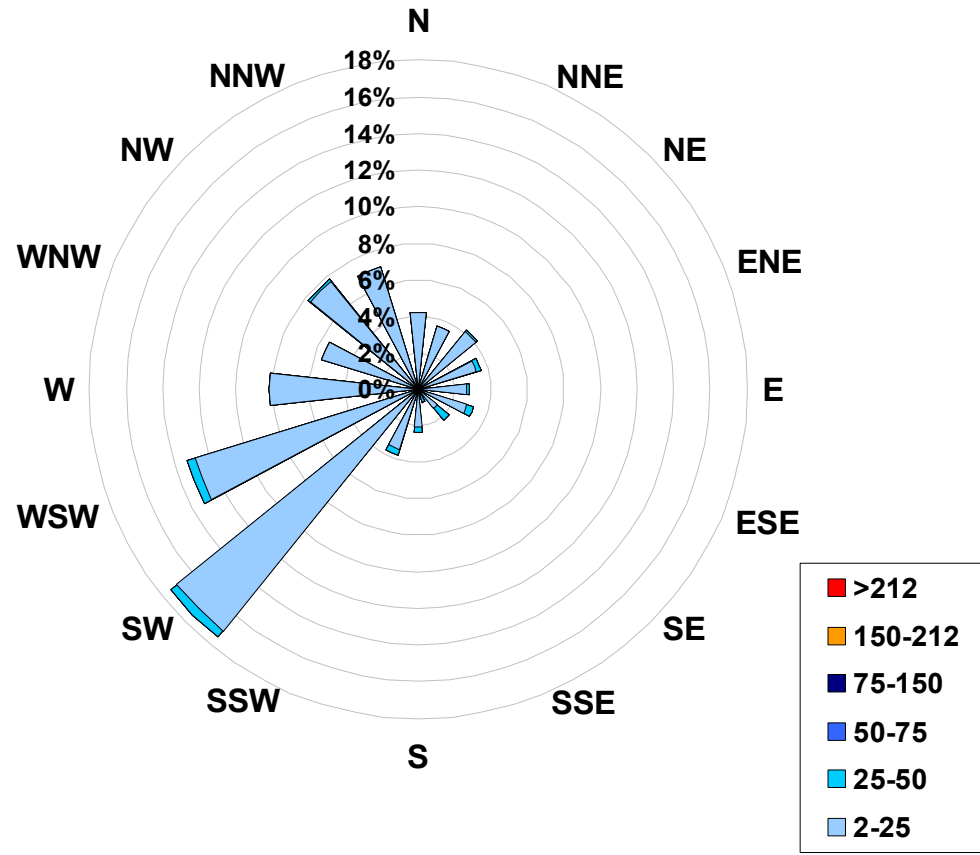


Figure 2. PAS - Crescent Heights Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 3%

Frequency Distribution of NO ₂ in ppb		
Range	Frequency (hrs)	
2.0 < 25	618	
25 to 50	12	
50 to 75	1	
75 to 150	2	
150 to 212	0	
> 212	0	
Total Non-Zero Values	633	



PAS - Crescent Heights - Nitric Oxide Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

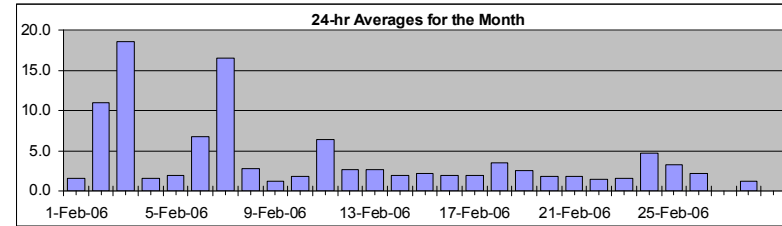
Nitric Oxide (NO)

Monitoring Dates: February 1, 2006 to March 1, 2006

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

Maximum 1-hr Average:	130.2	ppb	3-Feb	8:00 9:00
Maximum 24-hr Average:	18.6	ppb	3-Feb	

AIC Time:	30 hrs	Operational Time:	633 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	37.0	16.6	3.2	1.6	0.8	0.4	0.2	3.9 ppb	1.6 ppb



Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Feb-06	0	2	0	3	A	2	2	2	2	3	3	2	2	1	1	1	2	2	1	1	1	1	1	1	1	1.5	3.4
2-Feb-06	1	1	2	A	3	3	5	18	24	41	16	20	19	20	16	10	5	16	6	13	2	3	3	4	10.9	40.9	
3-Feb-06	3	3	A	7	21	33	49	73	130	31	16	7	2	8	4	5	2	11	8	1	7	3	2	0	18.6	130.2	
4-Feb-06	1	A	1	8	4	0	1	2	1	1	1	1	1	1	1	2	3	1	2	1	2	1	1	1	1.6	8.4	
5-Feb-06	A	4	1	2	0	1	2	1	2	3	4	3	3	2	3	2	1	1	1	1	1	3	1	A	1.9	4.3	
6-Feb-06	1	1	1	1	1	2	8	12	11	6	3	4	4	2	2	2	1	6	4	6	38	22	A	18	6.7	37.6	
7-Feb-06	14	24	44	7	21	15	17	36	96	22	5	3	6	3	4	3	1	0	0	1	5	A	30	21	16.5	95.7	
8-Feb-06	15	0	0	1	1	1	2	7	4	2	5	3	3	1	5	1	1	1	4	3	A	1	1	1	2.8	14.7	
9-Feb-06	0	0	0	0	0	0	0	1	2	1	1	3	1	2	3	4	2	2	2	A	1	0	1	1	1.3	3.8	
10-Feb-06	0	0	0	0	1	1	1	2	3	3	3	4	2	1	2	1	2	1	A	8	2	1	1	2	1.8	7.8	
11-Feb-06	1	0	1	1	0	0	1	2	7	5	3	3	2	2	1	2	1	A	1	24	21	12	31	23	6.3	30.9	
12-Feb-06	14	5	1	2	1	1	2	1	2	1	2	2	2	3	3	4	A	2	6	3	2	1	1	1	2.7	14.1	
13-Feb-06	1	1	0	1	6	1	3	8	6	2	3	4	2	2	3	A	5	3	1	1	1	3	1	4	2.6	8.1	
14-Feb-06	0	0	0	0	1	1	1	2	5	6	4	3	3	3	A	2	1	1	0	1	2	1	1	7	2.0	7.4	
15-Feb-06	2	2	2	2	2	1	5	5	5	2	3	4	2	A	2	2	2	1	1	2	1	1	1	1	2.2	4.9	
16-Feb-06	1	1	1	1	2	2	1	3	3	2	1	2	A	2	2	5	2	3	4	2	3	1	2	3	2.0	4.8	
17-Feb-06	1	2	3	5	1	1	3	5	4	4	3	A	3	2	1	1	1	1	1	1	0	1	0	0	1.9	5.4	
18-Feb-06	1	1	1	0	1	1	1	1	1	2	A	4	7	5	3	2	2	2	2	1	3	6	32	2	3.5	31.8	
19-Feb-06	17	2	3	0	4	3	2	1	1	A	1	1	2	1	1	4	2	1	2	2	5	1	3	1	2.6	16.9	
20-Feb-06	1	P	P	P	1	1	1	4	A	2	2	4	2	1	1	1	1	1	11	1	1	0	0	1	1.8	10.9	
21-Feb-06	1	0	0	0	0	4	3	A	2	3	2	2	2	4	1	1	1	1	6	1	1	3	3	0	1.8	6.0	
22-Feb-06	0	1	4	1	1	3	A	4	1	1	0	1	1	1	1	1	1	0	0	0	6	3	1	3	1.5	5.7	
23-Feb-06	0	2	A	2	4	5	2	3	5	3	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1.5	5.1	
24-Feb-06	0	A	1	1	1	1	0	1	1	2	2	2	2	1	2	2	2	1	1	1	16	14	26	28	4.7	28.1	
25-Feb-06	A	4	1	2	1	1	6	1	2	2	3	4	4	5	5	11	5	1	1	3	2	2	4	A	3.3	11.1	
26-Feb-06	1	1	0	0	1	1	0	2	7	13	7	3	2	3	2	2	1	1	1	1	0	1	A	2	2.2	13.0	
27-Feb-06	1	1	1	1	1	1	2	3	4	3	C	C	C	C	C	C	A	1	0	1	0	0	1	1	N	4.4	
28-Feb-06	0	1	A	1	0	1	2	3	3	1	1	1	2	1	1	1	2	2	1	1	1	1	1	1	1.3	3.3	
																									N	0.0	
Hourly Avg	2.9	2.3	2.9	2.0	2.9	3.0	4.6	7.6	12.4	6.1	3.7	3.4	3.1	2.9	2.8	2.7	1.9	2.3	2.6	3.0	4.6	3.2	5.7	4.9			
Hourly Max	16.9	24.0	44.4	8.4	21.3	32.6	49.5	73.0	130.2	40.9	16.5	20.0	19.1	19.9	15.9	11.1	5.0	16.1	10.9	23.8	37.6	21.7	31.8	28.1			



Station: Crescent Heights
 Station Owner: PAS

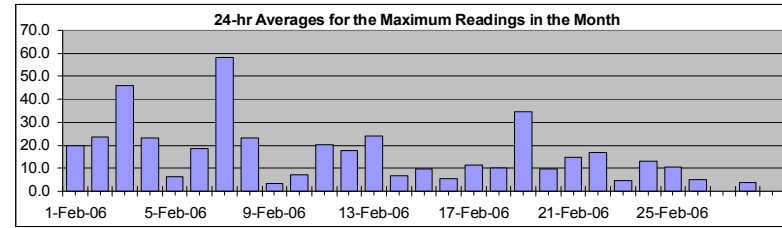
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: February 1, 2006 to March 1, 2006

Summary

Maximum 1-hr Value:	297.3	ppb	7-Feb	8:00 9:00
Maximum 24-hr Value:	58.0	ppb	7-Feb	



AIC Time:	30 hrs	Operational Time:	633 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	118.6	68.9	16.4	4.0	2.0	1.1	0.8	16.5 ppb	4.0 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-Feb-06	1	61	31	61	A	62	26	28	40	56	54	4	3	2	2	3	9	3	2	1	1	1	2	1	19.8	62.3	
2-Feb-06	2	3	5	A	10	11	14	48	39	50	29	26	24	28	36	15	10	55	49	63	4	7	7	6	23.6	63.2	
3-Feb-06	5	5	A	13	32	50	85	165	172	110	51	22	3	49	15	47	7	43	21	20	16	53	68	1	45.8	172.2	
4-Feb-06	18	A	2	89	16	1	28	46	20	2	2	11	16	2	8	46	94	3	52	8	66	1	1	1	23.3	94.4	
5-Feb-06	A	22	2	7	1	4	5	3	4	5	8	4	4	4	4	3	2	2	2	2	2	45	2	A	6.1	44.5	
6-Feb-06	2	2	3	3	3	3	43	46	35	13	5	5	24	3	4	3	2	22	14	32	79	63	A	21	18.7	79.3	
7-Feb-06	33	65	216	18	207	69	47	56	297	39	10	5	16	4	18	5	3	1	2	5	21	A	114	85	58.0	297.3	
8-Feb-06	47	1	1	13	1	2	30	79	56	15	63	6	7	3	47	2	3	8	104	32	A	2	8	7	23.4	104.2	
9-Feb-06	1	1	1	1	1	1	1	2	3	2	2	22	2	4	6	8	5	4	4	A	2	1	3	4	3.6	21.9	
10-Feb-06	1	1	1	1	1	2	3	12	10	4	5	14	3	2	5	3	4	3	A	50	5	3	2	33	7.3	50.5	
11-Feb-06	8	1	28	25	1	1	8	29	21	9	4	5	3	3	2	3	2	A	2	76	67	39	74	51	20.1	75.7	
12-Feb-06	35	10	43	49	24	14	60	2	26	2	27	5	4	4	4	6	A	3	71	8	5	3	3	1	17.7	70.6	
13-Feb-06	25	1	1	2	78	2	79	121	59	15	9	9	3	5	16	A	31	30	2	3	2	18	2	43	24.2	121.0	
14-Feb-06	1	1	1	1	1	2	2	5	6	7	6	7	12	12	A	3	2	2	1	3	5	2	2	69	6.6	68.6	
15-Feb-06	7	5	4	3	4	24	78	38	9	5	10	8	4	A	4	3	2	2	4	4	2	2	2	2	9.9	78.0	
16-Feb-06	1	1	2	4	2	4	7	9	5	3	4	3	A	3	8	20	5	6	8	4	12	4	3	8	5.4	20.3	
17-Feb-06	4	3	31	31	2	2	51	46	14	7	12	A	5	3	3	3	2	2	14	2	1	25	1	1	11.4	50.9	
18-Feb-06	1	2	9	1	2	2	4	2	2	3	A	5	12	9	4	4	3	16	6	3	20	29	88	4	10.0	88.2	
19-Feb-06	169	47	31	1	90	60	51	4	3	A	4	2	58	2	1	46	69	2	6	48	52	2	37	8	34.5	169.3	
20-Feb-06	4	P	P	P	2	4	4	42	A	3	5	33	3	3	2	2	2	2	73	8	2	1	1	2	9.8	72.6	
21-Feb-06	2	1	1	2	2	66	62	A	17	5	3	22	19	58	4	2	2	1	35	3	3	14	11	1	14.6	65.7	
22-Feb-06	1	10	50	1	2	86	A	95	7	2	2	1	1	1	2	1	1	2	1	2	40	7	16	53	16.7	95.2	
23-Feb-06	2	27	A	5	10	11	7	9	10	6	2	1	3	2	1	2	1	2	1	2	1	1	1	1	4.7	26.9	
24-Feb-06	1	A	2	2	2	2	1	1	2	3	3	7	3	2	3	4	4	2	3	15	37	31	93	77	13.0	92.8	
25-Feb-06	A	80	2	8	2	2	25	3	3	4	4	5	6	19	13	14	9	3	3	7	5	4	7	A	10.4	80.2	
26-Feb-06	1	1	1	1	1	1	1	4	16	17	16	4	3	4	4	3	2	1	16	1	1	14	A	3	5.1	16.9	
27-Feb-06	2	1	2	3	2	2	15	21	7	4	C	C	C	C	C	A	2	2	14	1	1	49	77	N	77.2		
28-Feb-06	1	4	A	4	1	4	3	13	7	3	2	3	13	2	4	2	9	3	2	3	3	2	2	2	4.0	13.2	
																									N	0.0	
Hourly Avg	14.5	14.3	19.5	13.3	18.5	17.5	27.5	34.4	33.0	14.6	13.0	9.3	9.8	8.9	8.5	9.8	11.1	8.3	18.5	15.5	16.9	13.9	23.0	21.6			
Hourly Max	169.3	80.2	216.5	88.5	206.6	85.9	84.7	165.5	297.3	110.3	63.4	32.9	58.3	57.9	46.5	46.9	94.4	55.4	104.2	75.7	79.3	63.4	113.7	85.1			



PAS - Crescent Heights - Oxides of Nitrogen Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

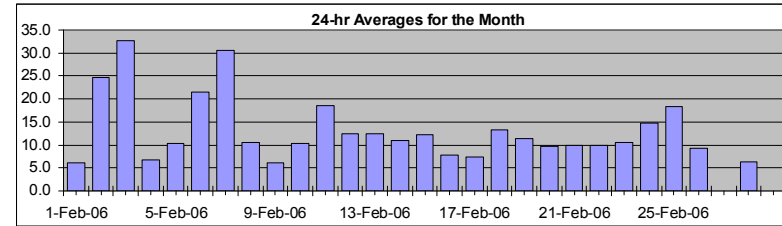
Oxides of Nitrogen (NO_x)

Monitoring Dates: February 1, 2006 to March 1, 2006

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

Maximum 1-hr Average:	150.2	ppb	3-Feb	8:00 9:00
Maximum 24-hr Average:	32.6	ppb	3-Feb	

AIC Time:	30 hrs	Operational Time:	633 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	65.5	36.6	15.0	8.7	5.5	3.3	2.3	13.0 ppb	8.7 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Feb-06	3	5	3	6	A	7	5	7	8	9	7	7	7	4	4	5	11	11	8	4	4	5	5	3	6.1	11.4	
2-Feb-06	5	10	12	A	17	14	19	37	41	57	25	31	31	36	30	26	20	39	26	32	14	15	14	15	24.6	56.8	
3-Feb-06	13	14	A	22	36	48	66	91	150	46	29	15	6	17	11	13	12	43	43	21	29	11	7	6	32.6	150.2	
4-Feb-06	6	A	18	29	21	4	4	5	4	3	3	3	4	4	4	6	7	6	6	4	6	3	3	3	6.8	29.3	
5-Feb-06	A	23	5	11	6	13	12	9	11	14	16	9	9	10	11	9	9	9	4	6	9	15	7	A	10.4	22.6	
6-Feb-06	13	6	7	12	15	19	28	36	29	16	9	10	11	7	6	9	11	28	33	30	71	48	A	42	21.5	70.8	
7-Feb-06	34	43	67	21	38	31	34	59	123	38	12	7	14	7	11	12	10	7	4	10	20	A	56	45	30.6	123.0	
8-Feb-06	35	10	6	10	10	6	9	18	11	8	11	9	10	4	11	4	7	8	23	14	A	8	9	7	10.6	34.8	
9-Feb-06	4	2	2	2	2	3	4	5	7	4	3	7	3	5	8	13	8	12	11	A	8	6	11	13	6.2	13.1	
10-Feb-06	6	8	7	10	11	16	14	14	12	9	9	9	5	4	5	5	8	10	A	33	18	12	6	8	10.3	33.0	
11-Feb-06	6	4	5	4	3	3	7	19	25	15	9	8	5	5	4	6	6	A	25	64	56	40	59	47	18.5	63.6	
12-Feb-06	32	19	8	7	5	5	9	5	8	5	3	5	5	8	9	18	A	19	29	26	20	13	17	9	12.4	31.9	
13-Feb-06	11	9	6	5	13	6	12	18	16	10	10	14	7	7	15	A	25	24	23	8	9	16	10	11	12.4	25.2	
14-Feb-06	6	6	5	7	13	14	12	18	17	15	9	8	8	7	A	7	4	5	6	16	14	13	14	26	10.9	26.2	
15-Feb-06	21	13	19	15	18	17	26	22	17	8	8	10	6	A	9	7	8	13	17	9	6	3	4	4	12.2	26.3	
16-Feb-06	4	4	3	6	8	6	6	8	7	5	4	3	A	5	6	10	5	8	10	9	14	13	12	21	7.7	21.3	
17-Feb-06	10	10	11	14	7	9	11	15	10	9	7	A	7	4	4	3	4	7	6	6	4	5	3	3	7.4	15.3	
18-Feb-06	4	5	6	5	4	4	6	7	6	5	A	9	17	13	9	8	11	13	18	18	23	33	62	15	13.2	61.6	
19-Feb-06	35	16	19	9	11	10	9	8	6	A	5	3	5	3	3	9	8	11	17	14	23	11	16	14	11.5	34.6	
20-Feb-06	6	P	P	P	7	9	10	19	A	10	10	12	7	7	6	6	7	10	28	7	7	7	9	10	9.7	28.0	
21-Feb-06	6	7	6	8	8	14	11	A	11	9	6	5	4	8	5	4	5	8	25	16	16	25	16	5	9.9	25.4	
22-Feb-06	8	16	14	9	7	11	A	20	6	2	2	1	2	2	3	2	3	4	7	11	32	30	20	17	10.0	31.7	
23-Feb-06	10	18	A	24	31	27	18	23	20	12	4	3	5	3	4	5	5	5	6	5	5	4	4	4	10.5	30.6	
24-Feb-06	4	A	6	5	5	4	5	5	6	6	5	4	4	4	4	6	6	5	13	15	53	50	60	66	14.8	66.4	
25-Feb-06	A	21	16	27	27	18	22	9	8	6	7	8	8	10	11	25	15	10	24	36	30	30	35	A	18.3	36.4	
26-Feb-06	9	7	7	5	5	3	2	12	23	31	15	6	4	6	7	5	6	6	11	9	8	14	A	13	9.2	30.6	
27-Feb-06	8	6	10	10	8	11	15	17	16	8	C	C	C	C	C	C	A	7	7	6	3	4	6	5	N	17.2	
28-Feb-06	5	6	A	7	8	11	9	13	11	5	5	5	6	4	4	4	8	6	6	5	5	3	5	4	6.3	12.9	
																										N	0.0
Hourly Avg	11.6	11.4	11.2	11.2	12.7	12.3	14.3	19.2	22.6	13.4	9.0	8.2	7.6	7.4	7.8	8.8	8.9	12.4	16.2	16.1	18.7	16.1	18.1	16.1			
Hourly Max	34.8	43.3	67.5	29.3	37.7	47.7	66.5	91.1	150.2	56.8	29.0	30.6	31.5	36.1	29.9	26.1	25.2	43.4	43.2	63.6	70.8	49.6	61.6	66.4			

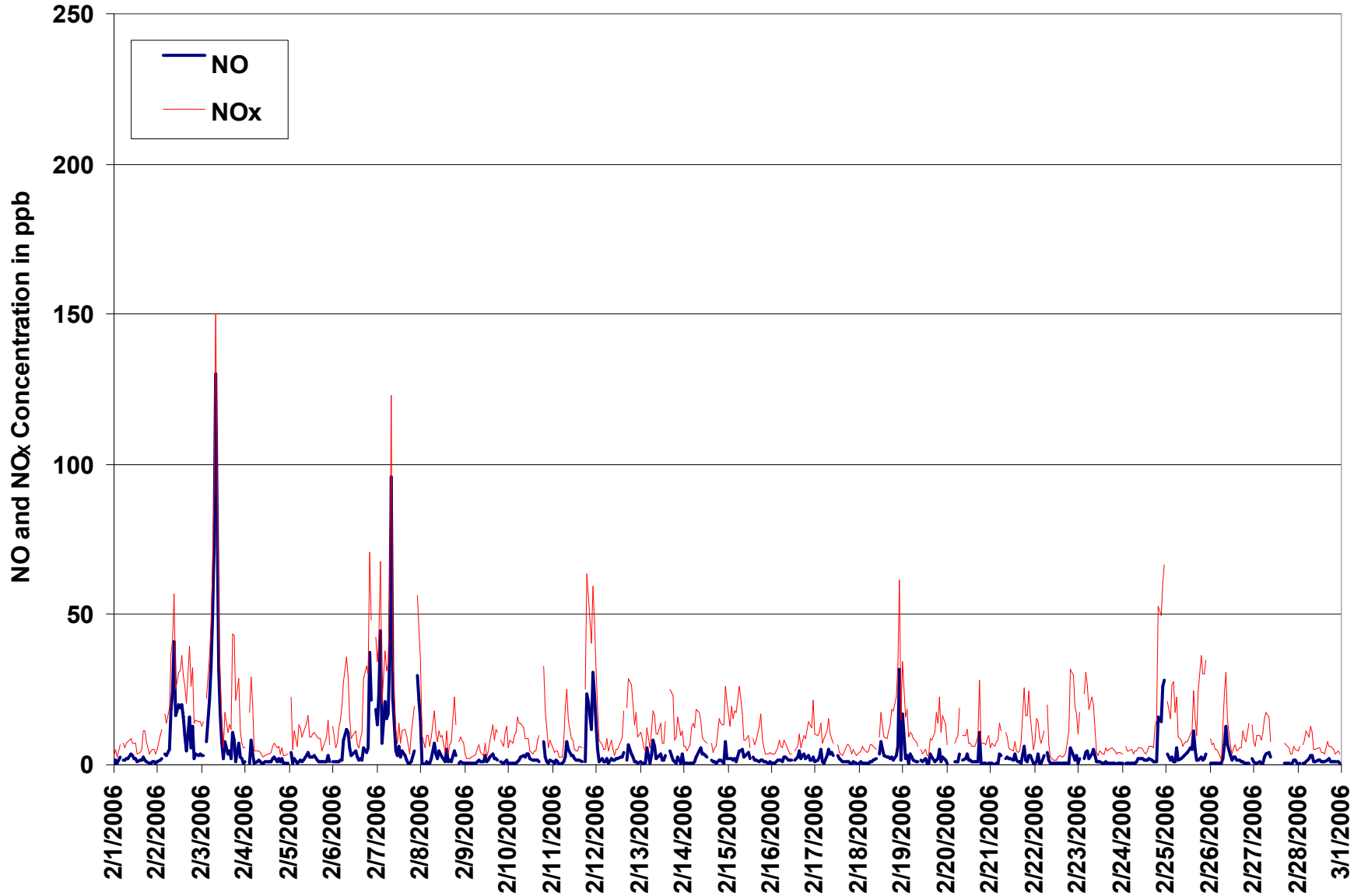


Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

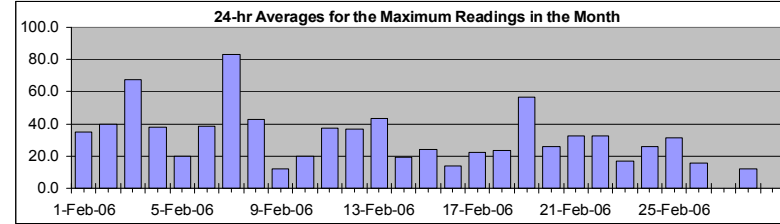
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: February 1, 2006 to March 1, 2006

Summary

Maximum 1-hr Value:	410.9	ppb	7-Feb	8:00 9:00
Maximum 24-hr Value:	83.1	ppb	7-Feb	



AIC Time:	30 hrs	Operational Time:	633 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	153.2	101.4	39.2	16.9	9.4	4.8	3.4	31.9 ppb	16.9 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-Feb-06	4	96	58	90	A	97	45	45	65	77	73	17	10	5	7	8	34	16	16	7	8	15	5	35.0	97.3		
2-Feb-06	7	14	16	A	27	27	32	64	57	67	42	38	39	47	55	33	34	81	70	88	19	20	18	39.7	87.9		
3-Feb-06	16	17	A	28	48	67	95	182	203	129	68	39	7	76	36	70	34	85	62	53	47	81	102	8	67.7	202.8	
4-Feb-06	36	A	21	123	50	7	56	77	41	6	3	25	22	5	16	56	111	11	74	14	99	4	4	5	37.7	123.2	
5-Feb-06	A	58	10	29	10	19	24	14	16	18	26	13	15	17	15	13	12	15	6	16	15	69	12	A	20.0	69.2	
6-Feb-06	17	10	16	16	26	24	74	72	63	31	14	13	42	8	10	10	14	58	41	59	120	99	A	45	38.4	119.8	
7-Feb-06	58	93	260	37	243	94	74	84	411	56	21	11	25	10	35	16	14	11	14	24	45	A	147	130	83.1	410.9	
8-Feb-06	74	13	8	27	12	11	54	122	82	30	88	14	25	14	82	6	9	20	151	57	A	12	34	33	42.5	150.5	
9-Feb-06	9	3	3	3	4	4	5	10	11	5	5	29	5	11	14	23	20	22	27	A	14	8	22	23	12.1	29.3	
10-Feb-06	8	11	11	12	15	18	21	29	20	11	12	28	8	5	14	7	15	17	A	91	29	19	8	48	19.9	91.3	
11-Feb-06	23	6	49	35	3	4	17	55	46	26	10	12	8	6	6	9	8	A	34	129	113	71	111	80	37.6	129.4	
12-Feb-06	59	29	62	73	42	22	91	8	41	7	49	14	9	11	12	27	A	27	125	37	31	24	29	10	36.6	125.4	
13-Feb-06	44	12	7	6	108	7	115	154	79	26	24	22	12	17	29	A	65	69	32	14	15	54	16	76	43.6	154.5	
14-Feb-06	9	12	6	11	14	15	15	25	21	18	14	13	20	23	A	10	7	8	9	22	30	19	19	101	19.1	100.8	
15-Feb-06	37	23	27	20	21	46	104	61	24	13	21	18	10	A	12	11	10	18	28	14	10	5	8	6	23.8	104.5	
16-Feb-06	6	6	6	9	10	10	20	21	12	7	6	6	A	7	15	25	12	14	17	12	27	18	17	37	13.9	36.8	
17-Feb-06	28	12	54	56	14	13	73	58	33	13	22	A	10	6	5	6	6	8	25	8	5	50	4	5	22.4	72.5	
18-Feb-06	5	7	22	8	7	7	15	10	7	7	A	11	25	19	11	10	15	37	30	23	48	62	124	26	23.3	124.4	
19-Feb-06	226	79	48	13	118	82	75	15	9	A	9	5	92	5	5	75	100	15	39	86	81	19	64	38	56.5	226.1	
20-Feb-06	118	P	P	P	15	19	20	69	A	15	17	57	11	10	9	8	12	17	116	37	20	14	15	20	25.9	115.7	
21-Feb-06	11	13	8	15	17	109	98	A	34	15	7	38	31	91	11	6	6	16	72	24	24	48	42	7	32.3	109.2	
22-Feb-06	16	37	84	13	10	116	A	125	25	4	4	2	2	3	5	3	5	8	11	22	80	40	45	86	32.5	124.7	
23-Feb-06	16	68	A	29	39	41	25	28	30	21	6	4	8	5	5	7	6	11	11	7	8	5	5	5	16.8	67.5	
24-Feb-06	6	A	10	6	6	7	5	6	6	8	8	17	6	4	5	11	11	7	22	46	79	70	131	116	25.8	131.5	
25-Feb-06	A	126	24	41	36	26	59	14	13	9	9	11	11	25	23	28	23	14	35	45	40	35	45	A	31.4	125.9	
26-Feb-06	11	10	12	7	6	5	2	22	36	38	34	8	7	7	10	7	9	8	38	13	10	45	A	20	15.9	44.7	
27-Feb-06	14	8	13	14	11	15	39	43	23	10	C	C	C	C	C	C	A	11	8	18	5	6	93	98	N	98.0	
28-Feb-06	7	19	A	16	14	22	12	25	17	9	6	9	29	6	9	7	21	9	8	10	9	5	8	5	12.3	29.0	
																									N	0.0	
Hourly Avg	29.3	31.3	34.8	28.4	34.3	33.5	46.9	53.2	52.8	25.1	23.0	18.3	18.9	17.1	17.5	19.0	23.6	23.4	41.4	36.1	38.2	33.6	43.9	40.4			
Hourly Max	226.1	125.9	259.6	123.2	243.0	116.3	115.4	182.4	410.9	129.0	88.0	57.1	91.5	91.4	82.0	75.3	111.5	84.7	150.5	129.4	119.8	99.3	147.4	130.1			

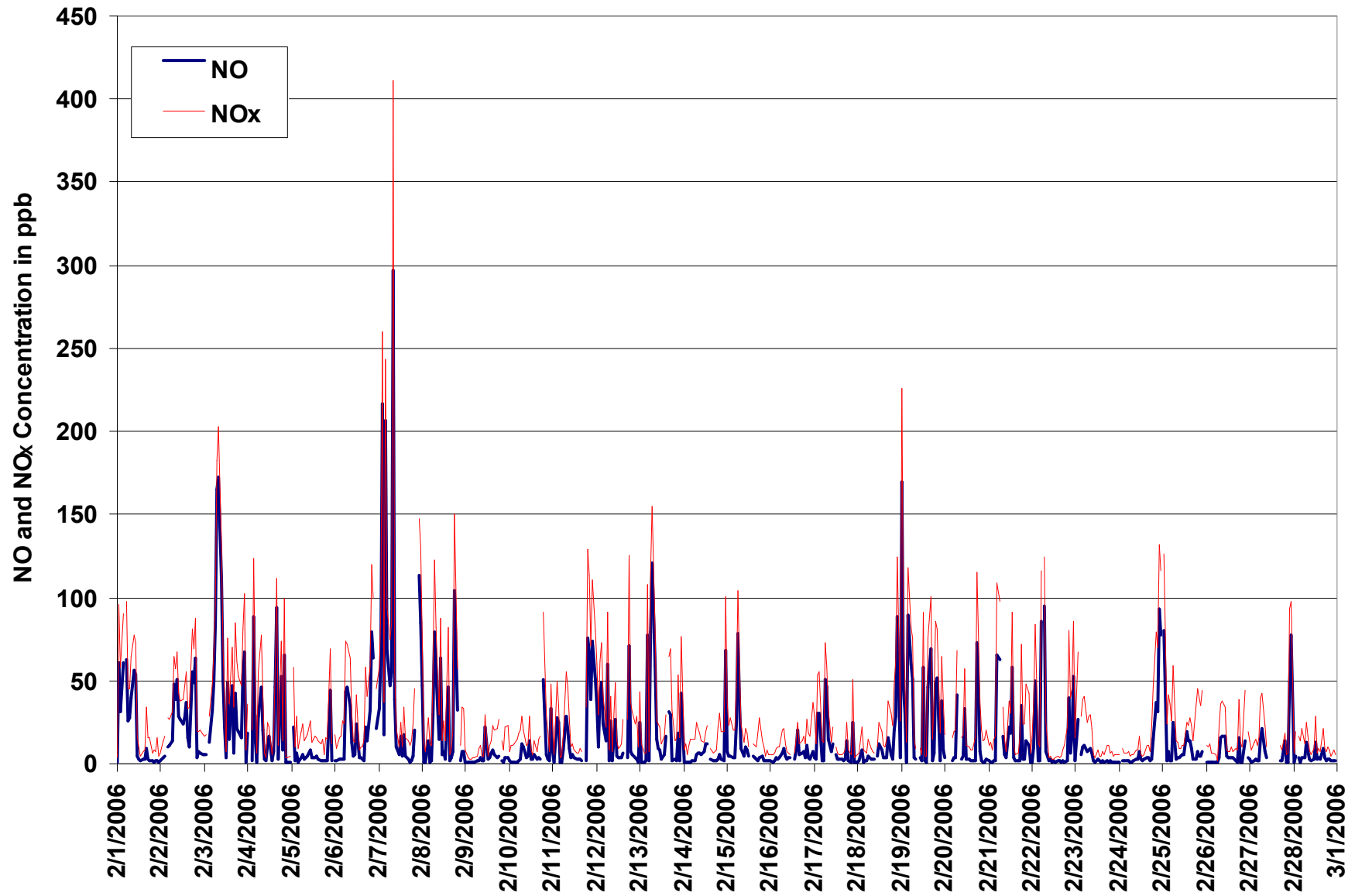


Figure 4. PAS - Crescent Heights Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend



PAS - Crescent Heights - Ozone Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

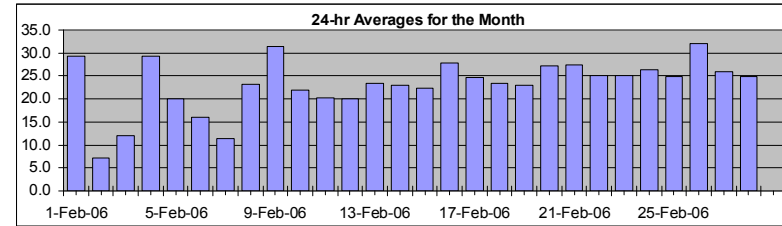
Ozone (O₃)

Monitoring Dates: February 1, 2006 to March 1, 2006

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

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	39.2 ppb	19-Feb	14:00 15:00
Maximum 24-hr Average:	32.1 ppb	26-Feb	

AIC Time:	30 hrs	Operational Time:	636 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	38.0	36.0	30.5	25.2	17.4	3.1	0.9	23.1 ppb	25.2 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Feb-06	31	32	33	33	A	34	32	29	28	28	28	28	30	33	34	31	27	25	25	28	27	26	26	28	29.4	33.8	
2-Feb-06	21	14	10	A	5	6	3	1	2	4	8	7	9	11	11	12	11	3	5	4	8	5	4	3	7.3	21.4	
3-Feb-06	4	2	A	1	1	1	1	1	2	7	13	20	26	22	28	30	27	7	2	9	9	19	23	22	12.1	30.4	
4-Feb-06	25	A	15	11	19	32	34	37	37	39	38	36	35	32	30	26	25	29	32	32	30	30	28	25	29.4	38.7	
5-Feb-06	A	15	28	22	23	15	16	15	15	15	16	21	20	21	20	21	23	24	30	26	20	15	20	A	20.0	29.7	
6-Feb-06	18	20	20	13	13	10	8	4	8	16	24	27	27	30	32	30	28	16	10	11	2	1	A	1	16.0	32.3	
7-Feb-06	2	3	1	4	2	1	1	1	2	6	14	18	19	26	25	25	24	25	26	19	10	A	3	2	11.4	26.3	
8-Feb-06	5	15	20	17	17	20	19	18	21	23	24	24	30	36	31	31	29	28	16	21	A	32	29	28	23.2	36.2	
9-Feb-06	31	34	35	34	33	32	31	30	30	32	33	34	36	35	34	30	32	28	28	A	30	29	26	23	31.4	36.0	
10-Feb-06	26	22	22	19	16	12	14	15	18	24	26	29	32	34	34	34	30	27	A	8	10	14	20	20	21.9	33.9	
11-Feb-06	23	25	26	28	27	27	21	11	12	20	26	28	33	35	36	34	33	A	15	1	1	1	1	1	20.2	36.1	
12-Feb-06	5	7	14	18	18	19	18	22	22	28	30	32	34	30	29	22	A	20	13	10	11	20	17	21	20.0	34.1	
13-Feb-06	19	18	19	20	18	21	19	20	20	21	22	21	30	35	29	A	24	21	19	31	30	25	27	28	23.3	35.0	
14-Feb-06	27	29	28	24	19	18	19	16	19	23	27	28	29	30	A	28	28	27	26	17	17	18	18	11	22.9	30.1	
15-Feb-06	15	18	11	12	9	8	5	8	17	26	27	26	31	A	30	32	31	25	21	27	32	33	34	35	22.3	34.5	
16-Feb-06	33	31	33	31	28	29	29	28	30	32	32	32	A	32	31	30	30	28	27	26	20	19	18	11	27.8	33.3	
17-Feb-06	18	20	19	19	20	16	14	14	17	22	25	A	27	30	32	33	32	30	29	29	30	30	31	30	24.6	32.7	
18-Feb-06	30	30	28	29	30	29	27	25	26	A	24	23	26	31	32	30	27	19	17	11	4	2	14	23.4	31.8		
19-Feb-06	10	12	10	14	16	15	16	16	19	A	32	34	37	38	39	37	35	30	21	21	14	19	18	24	22.9	39.2	
20-Feb-06	26	P	P	P	23	22	20	13	A	23	24	25	34	36	37	34	34	30	23	33	31	27	25	24	27.1	36.7	
21-Feb-06	27	26	27	26	24	22	26	A	27	28	30	32	35	36	37	37	36	31	18	21	21	15	21	26	27.4	36.9	
22-Feb-06	24	17	16	17	15	13	A	8	28	34	34	36	37	37	37	38	37	35	31	27	13	10	16	19	25.2	38.2	
23-Feb-06	21	15	A	9	3	6	11	8	16	23	30	35	34	37	37	33	33	34	34	32	32	30	30	25.1	36.8		
24-Feb-06	31	A	33	33	32	31	32	31	32	31	32	31	32	33	33	33	33	32	25	23	3	3	4	1	26.4	33.2	
25-Feb-06	A	24	26	15	13	22	26	32	34	36	36	35	36	36	35	28	31	33	17	8	10	10	8	A	25.0	35.7	
26-Feb-06	30	30	30	33	33	37	38	29	23	23	32	36	38	38	38	39	37	36	30	31	30	24	A	22	32.1	38.7	
27-Feb-06	23	23	19	20	22	20	21	19	21	26	28	28	23	25	37	37	C	C	C	A	33	32	30	30	25.9	37.1	
28-Feb-06	28	27	A	27	25	18	18	18	21	24	25	25	26	26	25	25	23	25	26	27	27	30	29	29	24.9	30.2	
																									N	0.0	
Hourly Avg	21.3	20.3	21.8	20.3	18.6	19.1	19.2	17.5	20.3	23.8	26.5	27.9	29.8	31.0	31.5	30.4	29.3	26.0	21.8	20.7	19.0	19.5	19.6	19.6			
Hourly Max	32.7	34.1	34.8	33.8	33.4	36.8	37.9	36.6	37.2	38.7	38.1	36.2	38.3	38.1	39.2	38.7	37.1	36.1	34.1	32.9	33.0	32.8	33.7	34.5			

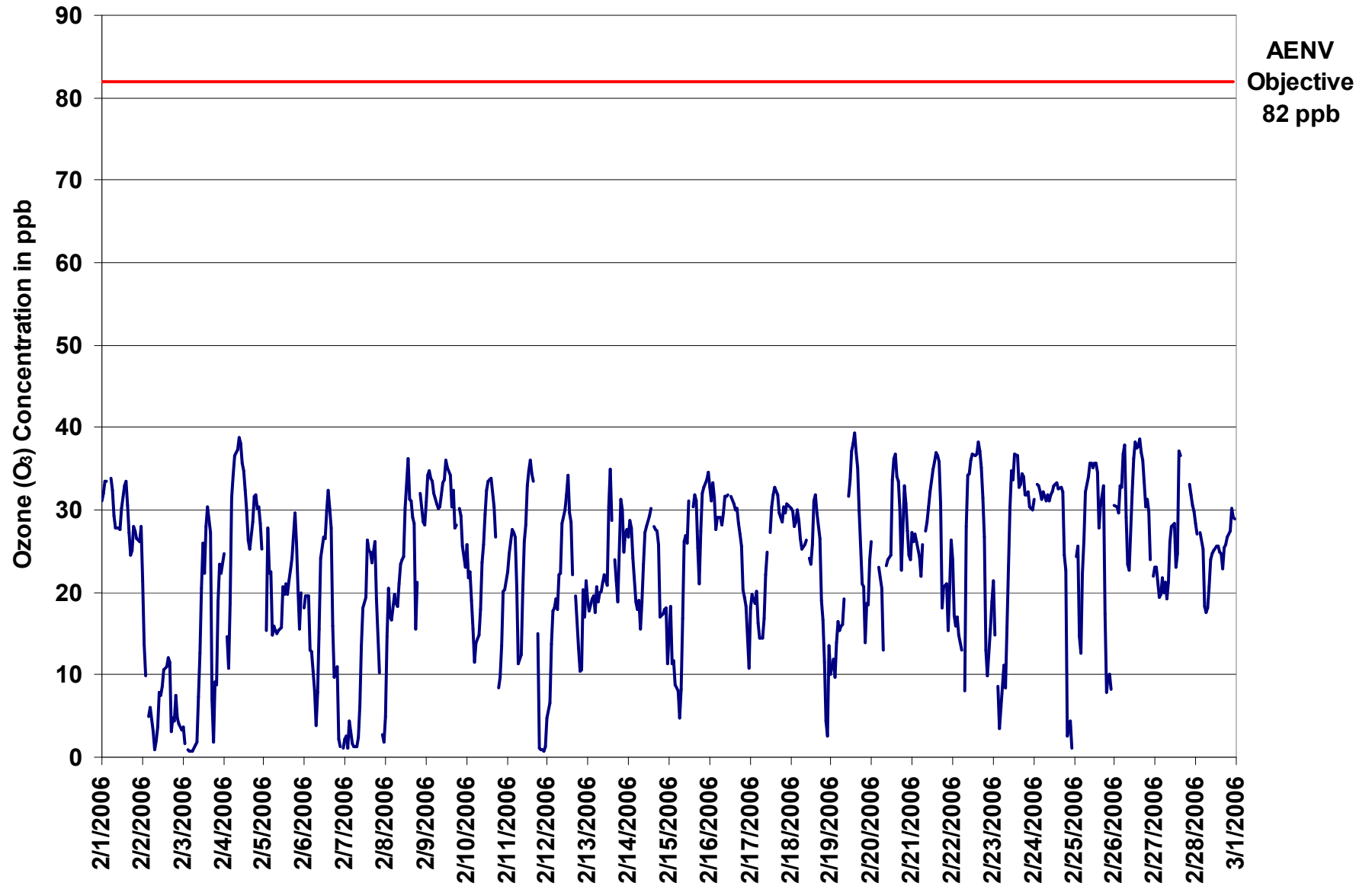


Figure 5. PAS - Crescent Heights Ozone 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

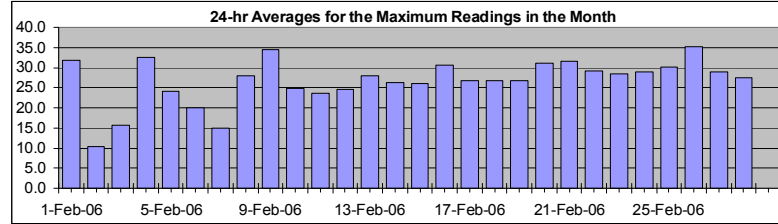
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: February 1, 2006 to March 1, 2006

Summary

Maximum 1-hr Value:	40.9	ppb	19-Feb	14:00 15:00
Maximum 24-hr Value:	35.1	ppb	26-Feb	



AIC Time:	30 hrs	Operational Time:	636 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	39.9	38.3	33.3	28.7	21.5	7.1	2.3	26.6 ppb	28.7 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Feb-06	33	34	35	36	A	35	35	32	29	30	30	31	33	34	36	33	32	28	27	29	30	29	29	29	31.8	36.1
2-Feb-06	26	19	11	A	9	10	5	2	3	6	11	9	11	15	13	15	15	6	15	8	11	7	8	5	10.4	26.1
3-Feb-06	5	4	A	2	1	2	2	3	3	13	17	26	28	27	32	35	35	13	7	12	17	25	25	25	15.7	35.3
4-Feb-06	26	A	20	17	30	34	38	39	39	41	40	37	37	35	32	29	27	33	34	33	32	33	32	27	32.4	40.9
5-Feb-06	A	24	30	30	27	18	20	18	18	19	20	22	22	25	23	26	26	28	33	31	25	19	27	A	24.2	32.7
6-Feb-06	22	23	23	16	17	14	14	8	11	22	27	28	28	33	35	33	33	31	13	16	8	3	A	3	20.0	35.2
7-Feb-06	5	7	3	8	5	4	3	3	4	10	18	20	25	28	28	28	27	28	29	28	21	A	8	6	15.0	29.4
8-Feb-06	17	18	24	24	20	22	22	22	25	26	29	28	39	39	38	34	31	32	26	28	A	35	33	32	28.0	38.9
9-Feb-06	33	36	36	35	34	34	32	33	33	33	36	37	37	38	38	38	37	33	34	A	32	31	32	30	34.4	38.3
10-Feb-06	28	24	24	23	19	14	16	17	21	27	28	33	34	35	35	36	34	31	A	14	15	19	24	23	24.8	35.6
11-Feb-06	25	27	28	30	29	28	26	18	19	26	29	31	35	36	38	37	36	A	24	8	2	2	4	7	23.7	37.6
12-Feb-06	12	11	18	21	21	21	22	27	26	32	32	37	37	34	31	28	A	26	25	17	15	25	22	23	24.5	37.4
13-Feb-06	22	21	21	22	22	23	23	25	25	24	26	26	37	39	33	A	30	30	31	35	36	30	32	32	28.0	38.5
14-Feb-06	30	34	30	27	21	20	21	22	21	26	29	30	32	32	A	30	29	29	29	23	27	22	22	20	26.4	33.7
15-Feb-06	21	22	16	17	11	12	10	15	23	30	29	31	33	A	32	34	33	31	28	29	34	35	35	36	26.1	36.3
16-Feb-06	35	33	35	33	32	31	32	31	33	33	33	33	A	33	32	32	32	30	29	28	24	25	24	19	30.6	34.7
17-Feb-06	22	21	21	23	23	18	16	18	20	25	26	A	31	32	33	34	33	33	31	30	31	31	32	32	26.8	34.0
18-Feb-06	32	31	31	31	32	30	29	27	27	28	A	25	28	29	33	34	32	33	27	22	16	10	9	18	26.7	34.4
19-Feb-06	16	17	16	18	19	17	19	19	21	A	34	37	38	39	41	41	38	34	30	24	19	23	24	31	26.7	40.9
20-Feb-06	31	P	P	P	26	25	24	17	A	26	27	29	39	39	39	37	36	36	33	37	34	31	29	27	31.2	39.5
21-Feb-06	30	29	29	28	30	30	30	A	31	32	32	34	38	40	39	39	38	37	27	26	28	23	29	28	31.5	39.9
22-Feb-06	28	21	19	21	17	15	A	11	34	36	36	37	39	38	38	41	39	38	35	35	30	17	20	26	29.1	40.6
23-Feb-06	25	21	A	15	6	13	15	13	24	30	34	36	36	39	38	34	34	37	36	34	34	34	32	32	28.3	38.9
24-Feb-06	33	A	35	34	33	33	34	33	33	32	33	34	34	35	34	35	35	34	32	28	7	10	15	2	29.0	34.9
25-Feb-06	A	32	32	23	16	31	37	36	37	37	37	36	37	38	37	33	34	36	30	15	14	14	20	A	30.1	37.5
26-Feb-06	33	32	35	35	35	39	40	38	28	27	37	38	40	39	40	41	40	39	34	34	33	28	A	25	35.1	40.6
27-Feb-06	25	25	23	23	24	24	26	24	25	28	29	30	28	38	39	38	C	C	C	A	35	34	33	32	29.0	38.8
28-Feb-06	30	31	A	31	30	21	21	21	23	26	26	28	27	28	27	26	26	28	28	29	31	32	33	32	27.6	32.7
																									N	0.0
Hourly Avg	24.8	23.8	24.8	24.0	21.9	22.1	22.6	21.2	23.6	26.8	29.0	30.4	32.7	33.9	33.9	33.3	32.4	30.5	28.0	25.1	23.7	23.2	24.3	23.2		
Hourly Max	34.7	35.6	35.8	36.1	34.6	39.2	39.7	39.0	38.5	40.9	40.0	37.6	39.7	39.9	40.9	40.6	39.7	38.6	36.0	36.5	36.0	35.3	35.2	36.3		

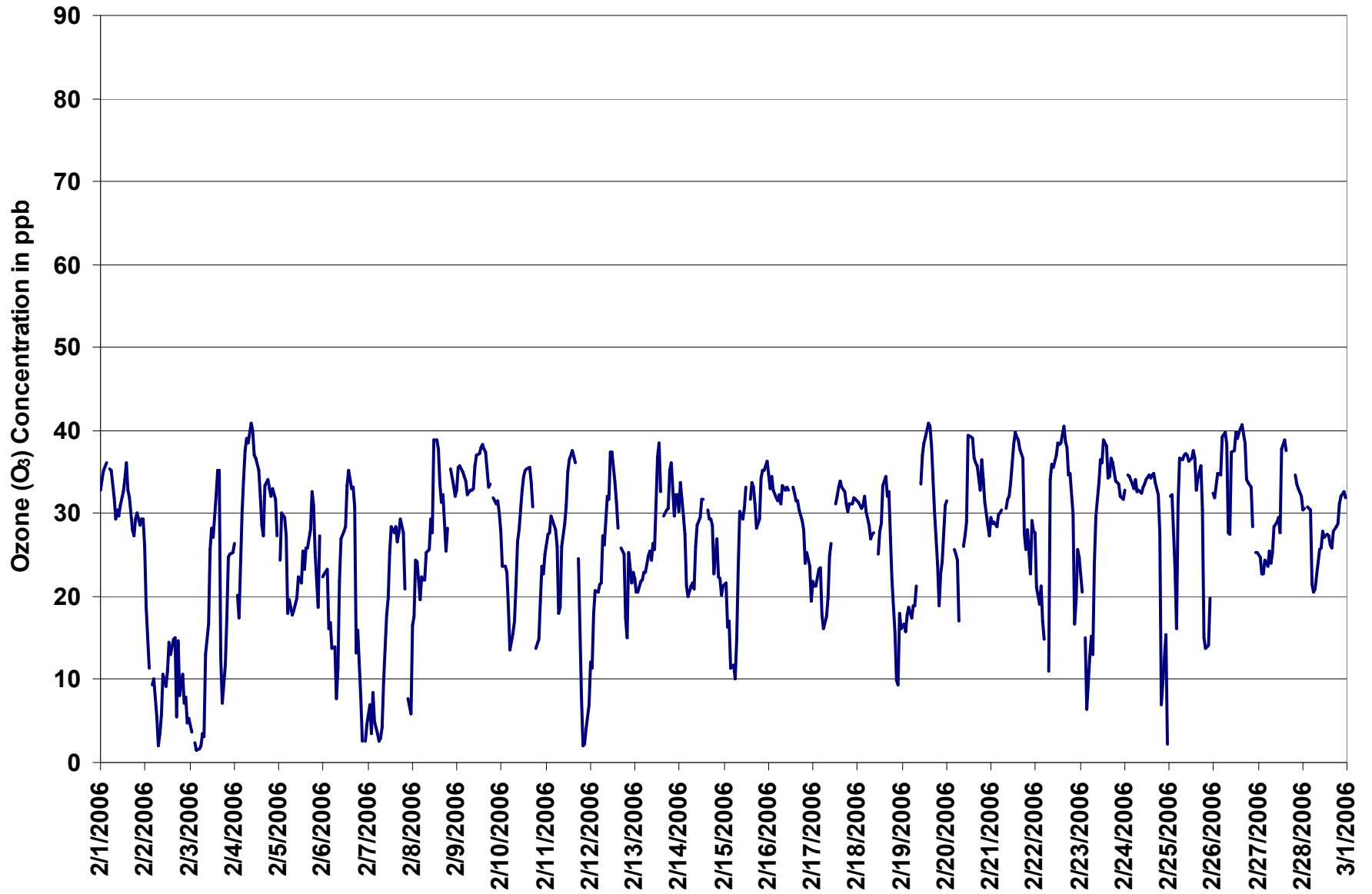
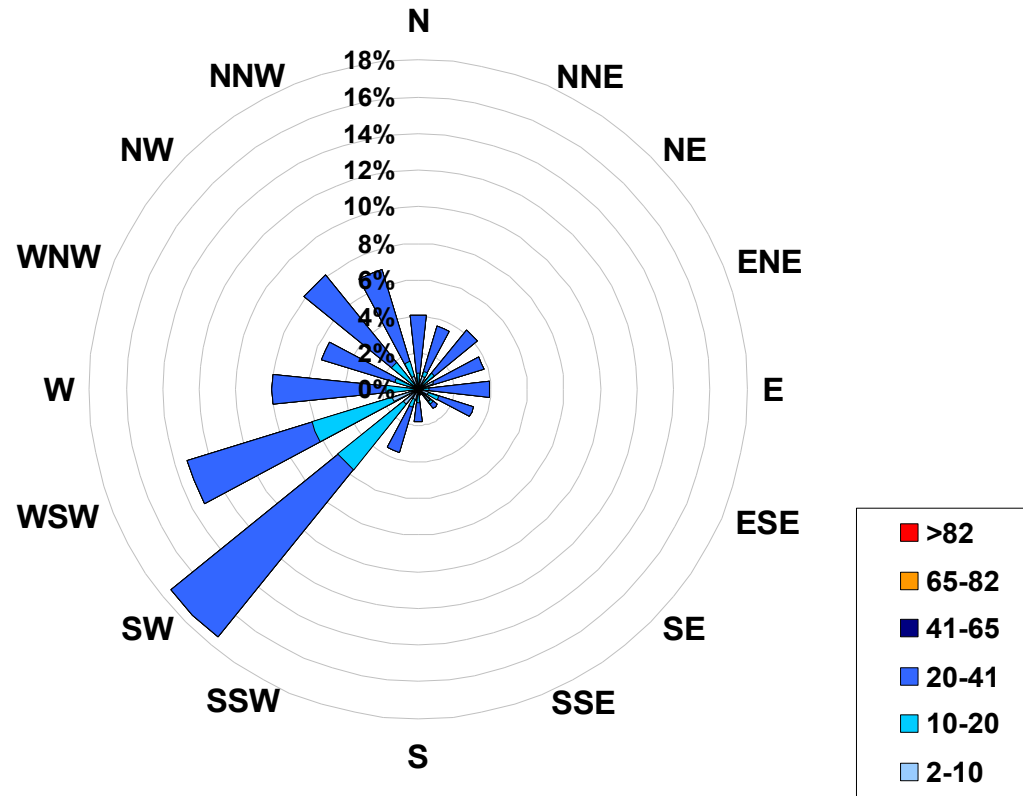


Figure 6. PAS - Crescent Heights Ozone Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 3%

Frequency Distribution of O ₃ in ppb			
Range		Frequency (hrs)	
2.0	< 10	79	
10	to 20	134	
20	to 41	423	
41	to 65	0	
65	to 82	0	
	> 82	0	
Total Non-Zero Values			636



PAS - Crescent Heights - Ozone Monthly Summary

Station: Crescent Heights
Station Owner: PAS

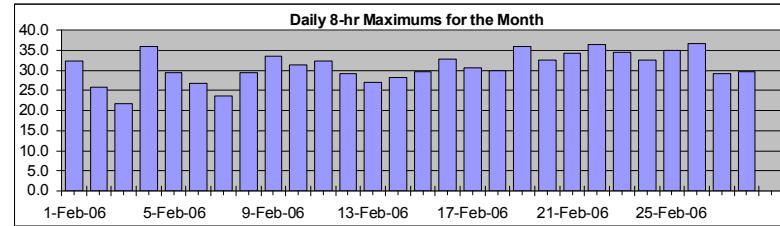
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: February 1, 2006 to March 1, 2006

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

Number of 8-hr Exceedances:	0		
Maximum 8-hr Average:	36.7 ppb	26-Feb	17:00 18:00



Percentile	99	95	75	50	25	5	1
	35.9	33.2	29.6	24.5	18.1	5.8	2.1

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																								Daily Maximum	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		23:00
1-Feb-06	Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	32.3
2-Feb-06	25	27	28	30	30	31	32	32	32	31	30	29	30	29	30	30	30	29	29	29	29	28	27	27	27	25.9
3-Feb-06	26	25	23	22	19	16	12	9	6	4	4	5	5	6	7	8	9	9	9	8	8	7	7	5	21.8	
4-Feb-06	4	4	4	4	3	2	2	1	1	2	3	6	9	12	15	19	22	22	20	19	17	16	16	15	36.0	
5-Feb-06	14	16	17	18	19	21	22	24	26	28	31	34	36	36	35	34	33	31	31	30	30	29	29	29	29.5	
6-Feb-06	29	28	27	26	25	22	21	19	19	19	17	17	17	17	18	19	20	21	22	23	23	22	22	23	26.7	
7-Feb-06	22	21	20	18	17	16	15	13	12	11	12	14	15	18	21	24	27	27	25	23	20	16	14	10	23.7	
8-Feb-06	6	4	3	2	2	2	2	2	2	2	4	6	8	11	14	17	20	22	24	24	23	22	19	16	29.3	
9-Feb-06	13	11	11	10	11	12	14	16	18	19	20	21	22	25	26	28	29	29	28	28	28	27	27	26	33.4	
10-Feb-06	26	27	30	32	32	32	32	32	32	32	32	32	32	33	33	33	33	33	32	31	30	29	29	28	31.4	
11-Feb-06	27	26	25	25	23	21	19	18	17	17	17	18	19	21	24	26	29	30	31	31	28	25	22	20	18	32.3
12-Feb-06	17	17	18	21	23	24	24	23	22	22	22	22	22	23	25	28	31	32	31	27	22	17	12	8	29.3	
13-Feb-06	4	4	4	6	8	10	12	15	17	20	22	24	26	27	28	28	29	28	26	23	19	18	16	16	27.1	
14-Feb-06	16	16	17	18	19	19	19	19	19	20	20	20	22	24	25	25	26	26	26	27	27	26	25	26	28.3	
15-Feb-06	26	27	28	27	26	25	24	22	21	21	21	21	22	24	25	26	28	28	28	26	25	23	22	20	29.8	
16-Feb-06	19	18	16	15	14	13	11	11	11	12	14	16	19	20	24	27	29	29	28	28	28	29	29	30	32.7	
17-Feb-06	30	31	32	33	32	32	31	30	30	30	30	30	30	31	31	31	31	31	30	29	28	26	25	23	30.5	
18-Feb-06	21	20	19	18	18	18	17	18	17	18	18	18	19	21	24	27	29	30	30	30	31	30	30	30	29.9	
19-Feb-06	30	30	30	30	30	30	29	28	28	27	27	26	25	26	27	27	27	28	26	26	24	21	18	15	36.0	
20-Feb-06	13	11	10	10	10	12	13	14	15	15	18	21	24	27	31	34	36	35	34	32	29	27	24	23	32.5	
21-Feb-06	22	20	P	P	P	P	P	P	P	P	P	P	21	23	25	27	30	31	32	31	32	32	31	29	28	34.2
22-Feb-06	27	27	28	27	26	25	25	26	26	26	26	26	27	29	31	32	33	34	34	33	31	29	27	25	24	36.4
23-Feb-06	22	20	20	20	19	19	18	16	16	19	21	24	27	31	31	35	36	36	36	35	32	29	26	23	34.5	
24-Feb-06	21	19	17	15	13	13	12	11	10	11	13	17	20	24	27	31	33	34	35	34	34	33	33	32	32.6	
25-Feb-06	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	31	27	23	19	15	34.8
26-Feb-06	13	12	12	11	12	15	18	23	24	25	27	29	32	34	35	34	34	34	33	31	28	25	21	18	17	36.7
27-Feb-06	17	16	18	22	25	29	33	32	32	31	31	31	32	32	32	33	35	37	36	36	35	33	32	30	29.1	
28-Feb-06	28	26	25	23	22	21	21	21	21	21	22	23	23	24	26	28	29	N	N	N	N	N	N	N	29.7	
29-Feb-06	N	N	N	30	29	27	25	23	22	22	22	22	22	22	23	24	24	25	25	25	25	26	27	27	0.0	

Hourly Max	32.0	31.7	32.2	32.7	32.2	31.9	33.0	32.5	32.4	32.1	31.9	33.8	35.8	36.0	35.4	35.1	36.3	36.7	36.5	35.9	34.8	33.4	32.6	32.3
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PAS - Crescent Heights - Carbon Monoxide Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

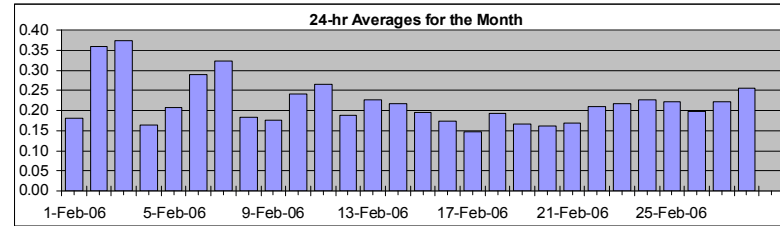
Carbon Monoxide (CO)

Monitoring Dates: February 1, 2006 to March 1, 2006

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

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	1.7 ppm	3-Feb	8:00 9:00
Maximum 24-hr Value:	0.4 ppm	3-Feb	

AIC Time:	30 hrs	Operational Time:	636 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.6	0.4	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																								24-hour Average	Daily Maximum			
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00	0:00	
1-Feb-06	0.2	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	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.26
2-Feb-06	0.2	0.2	0.2	A	0.2	0.3	0.4	0.6	0.7	0.7	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.36	0.69	
3-Feb-06	0.2	0.2	A	0.2	0.3	0.4	0.6	1.1	1.7	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.5	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.37	1.68	
4-Feb-06	0.2	A	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.16	0.23		
5-Feb-06	A	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.21	0.25	
6-Feb-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.6	0.4	A	0.3	0.29	0.58		
7-Feb-06	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.4	1.4	0.6	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.3	0.2	0.32	1.41		
8-Feb-06	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	0.2	0.2	0.2	0.2	0.2	0.3	0.2	A	0.2	0.2	0.18	0.30		
9-Feb-06	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.18	0.21		
10-Feb-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	A	0.3	0.3	0.2	0.2	0.24	0.33		
11-Feb-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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.3	0.5	0.4	0.3	0.4	0.4	0.26	0.49	
12-Feb-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	0.1	0.1	0.2	0.2	A	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.19	0.28	
13-Feb-06	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	0.3	0.2	0.2	0.2	0.4	A	0.3	0.3	0.3	0.2	0.2	0.2	0.23	0.37	
14-Feb-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	0.2	0.2	A	0.2	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.22	0.29	
15-Feb-06	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	A	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.19	0.32	
16-Feb-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	A	0.2	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.17	0.28	
17-Feb-06	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.15	0.26	
18-Feb-06	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.2	0.19	0.53	
19-Feb-06	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	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.17	0.22	
20-Feb-06	0.1	P	P	P	0.1	0.1	0.2	0.2	A	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.16	0.24	
21-Feb-06	0.1	0.1	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.17	0.25	
22-Feb-06	0.2	0.2	0.2	0.2	0.2	0.2	A	0.3	0.2	0.2	0.2	0.2	0.2	0.2	C	C	C	A	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.21	0.32	
23-Feb-06	0.2	0.2	A	0.2	0.2	0.3	0.2	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	0.22	0.35	
24-Feb-06	0.2	A	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.3	0.3	0.4	0.23	0.53	
25-Feb-06	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	0.3	0.3	0.2	0.3	0.4	A	0.22	0.39	
26-Feb-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.20	0.37		
27-Feb-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	0.33	
28-Feb-06	0.2	0.2	A	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.25	0.31	
																										N	0.00		
Hourly Avg	0.18	0.18	0.18	0.18	0.19	0.20	0.22	0.30	0.36	0.26	0.21	0.21	0.21	0.20	0.20	0.19	0.20	0.22	0.23	0.24	0.24	0.22	0.23	0.20					
Hourly Max	0.28	0.25	0.31	0.24	0.29	0.43	0.56	1.09	1.68	0.69	0.32	0.34	0.39	0.40	0.43	0.37	0.37	0.51	0.47	0.49	0.58	0.39	0.53	0.45					

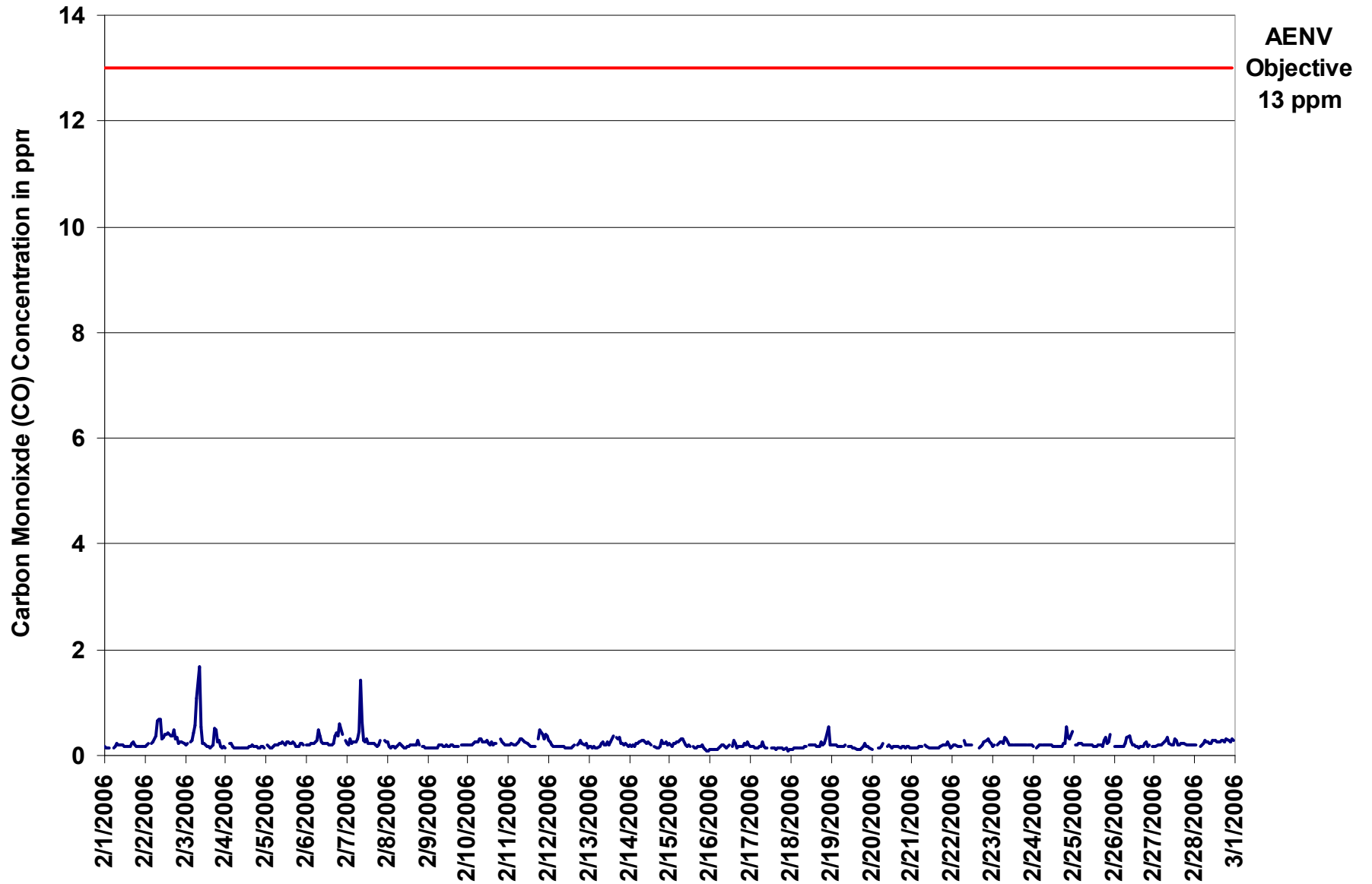


Figure 7. PAS - Crescent Heights Carbon Monoxide 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

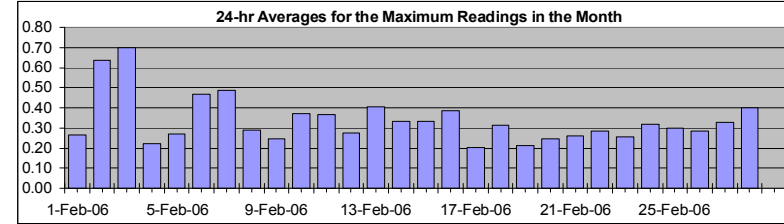
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

Monitoring Dates: February 1, 2006 to March 1, 2006

Summary

Maximum 1-hr Value:	3.1	ppm	3-Feb	7:00 8:00
Maximum 24-hr Value:	0.7	ppm	3-Feb	



AIC Time:	30 hrs	Operational Time:	636 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.3	0.8	0.4	0.3	0.2	0.2	0.1	0.3 ppm	0.3 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-Feb-06	0.2	0.2	0.2	0.2	A	0.2	0.2	0.4	0.4	0.2	0.2	0.5	0.2	0.2	0.4	0.2	0.3	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.27	0.49
2-Feb-06	0.2	0.4	0.3	A	0.3	0.4	1.3	1.0	0.8	0.9	0.4	0.5	0.5	0.5	1.1	0.7	1.2	1.3	0.7	0.6	0.3	0.3	0.5	0.3	0.64	1.33
3-Feb-06	0.3	0.4	A	0.3	0.4	1.0	1.0	3.1	2.7	1.3	0.4	0.7	0.4	0.3	0.5	0.2	0.4	0.8	0.6	0.3	0.4	0.2	0.2	0.2	0.70	3.08
4-Feb-06	0.2	A	0.6	0.3	0.2	0.1	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	0.2	0.2	0.2	0.2	0.22	0.59
5-Feb-06	A	0.4	0.1	0.1	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.4	0.3	0.2	0.2	0.4	0.3	0.2	A	0.27	0.40
6-Feb-06	0.2	0.2	0.3	0.2	0.3	0.4	0.5	1.4	0.8	0.4	0.2	0.3	0.3	0.2	0.5	0.3	0.3	0.8	0.6	0.6	0.9	0.6	A	0.3	0.47	1.44
7-Feb-06	0.3	0.3	0.4	0.4	0.3	0.3	0.4	0.7	2.6	1.1	0.4	0.5	0.4	0.3	0.3	0.3	0.4	0.2	0.2	0.3	0.6	A	0.3	0.3	0.49	2.60
8-Feb-06	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.6	0.4	0.2	0.2	0.2	0.2	0.2	0.8	0.2	0.3	0.3	0.4	0.4	A	0.2	0.2	0.2	0.29	0.77
9-Feb-06	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.3	0.3	0.2	0.4	0.2	0.2	0.7	0.3	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.25	0.71
10-Feb-06	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.6	0.4	0.3	0.3	0.9	0.3	0.4	0.7	0.3	0.3	0.3	A	0.8	0.5	0.3	0.2	0.2	0.37	0.86
11-Feb-06	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.8	0.6	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	A	0.5	0.7	0.5	0.4	0.5	0.5	0.37	0.81
12-Feb-06	0.4	0.4	0.2	0.3	0.2	0.2	0.2	0.2	0.5	0.3	0.2	0.2	0.1	0.2	0.2	0.3	A	0.2	0.3	0.4	0.6	0.2	0.3	0.2	0.28	0.59
13-Feb-06	0.3	0.2	0.2	0.5	0.2	0.2	0.3	0.6	0.4	0.3	0.3	0.7	0.3	0.6	1.1	A	0.5	0.4	0.4	0.3	0.6	0.4	0.3	0.2	0.40	1.12
14-Feb-06	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.4	0.5	0.3	0.5	0.7	0.3	0.3	A	0.2	0.2	0.3	0.3	0.5	0.4	0.3	0.3	0.3	0.33	0.73
15-Feb-06	0.3	0.2	0.3	0.3	0.4	0.3	0.3	0.6	0.7	0.7	0.2	0.3	0.2	A	0.5	0.2	0.2	0.2	0.2	0.5	0.4	0.3	0.2	0.1	0.33	0.69
16-Feb-06	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.4	0.3	0.3	0.3	0.8	A	0.3	1.7	0.8	0.2	0.5	0.4	0.3	0.4	0.3	0.5	0.3	0.38	1.65
17-Feb-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.3	0.3	0.2	A	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.72
18-Feb-06	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.3	0.2	0.2	A	0.2	0.3	0.4	0.2	0.2	0.2	0.4	1.1	0.3	0.3	0.5	1.0	0.2	0.31	1.07
19-Feb-06	0.3	0.3	0.3	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	0.4	0.3	0.2	0.2	0.21	0.36
20-Feb-06	0.1	P	P	P	0.1	0.2	0.2	0.3	A	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.6	0.1	0.2	0.2	0.2	0.24	0.64
21-Feb-06	0.1	0.2	0.2	0.2	0.2	0.2	0.2	A	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.4	0.2	0.2	0.3	0.4	0.3	0.4	0.6	0.2	0.26	0.58
22-Feb-06	0.2	0.2	0.2	0.2	0.2	0.2	A	0.5	0.5	0.2	0.2	0.2	C	C	C	A	0.2	0.2	0.3	0.3	0.5	0.4	0.3	0.3	0.28	0.55
23-Feb-06	0.2	0.2	A	0.2	0.3	0.4	0.3	0.5	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25	0.45
24-Feb-06	0.2	A	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	0.2	0.5	0.9	0.8	0.5	0.5	0.5	0.32	0.92
25-Feb-06	A	0.2	0.2	0.3	0.3	0.2	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.2	0.5	0.7	A	0.30	0.69
26-Feb-06	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.4	0.4	0.3	0.2	A	0.4	0.28	0.44
27-Feb-06	0.2	0.2	0.4	0.3	0.3	0.3	0.3	0.4	1.1	0.2	0.2	0.2	0.5	0.4	0.2	0.2	0.2	0.3	0.2	0.7	0.2	0.2	0.2	0.2	0.33	1.11
28-Feb-06	0.2	0.2	A	0.2	0.2	0.3	0.7	0.7	0.3	0.3	0.3	0.5	0.6	0.5	0.3	0.4	0.4	0.4	0.4	1.0	0.4	0.3	0.4	0.3	0.40	0.95
																									N	0.00
Hourly Avg	0.23	0.23	0.24	0.23	0.23	0.26	0.35	0.60	0.60	0.39	0.27	0.37	0.27	0.29	0.45	0.29	0.29	0.35	0.38	0.45	0.39	0.31	0.34	0.27		
Hourly Max	0.40	0.42	0.59	0.49	0.44	1.04	1.26	3.08	2.71	1.25	0.46	0.86	0.64	0.64	1.65	0.77	1.19	1.33	1.07	0.95	0.89	0.65	0.95	0.55		

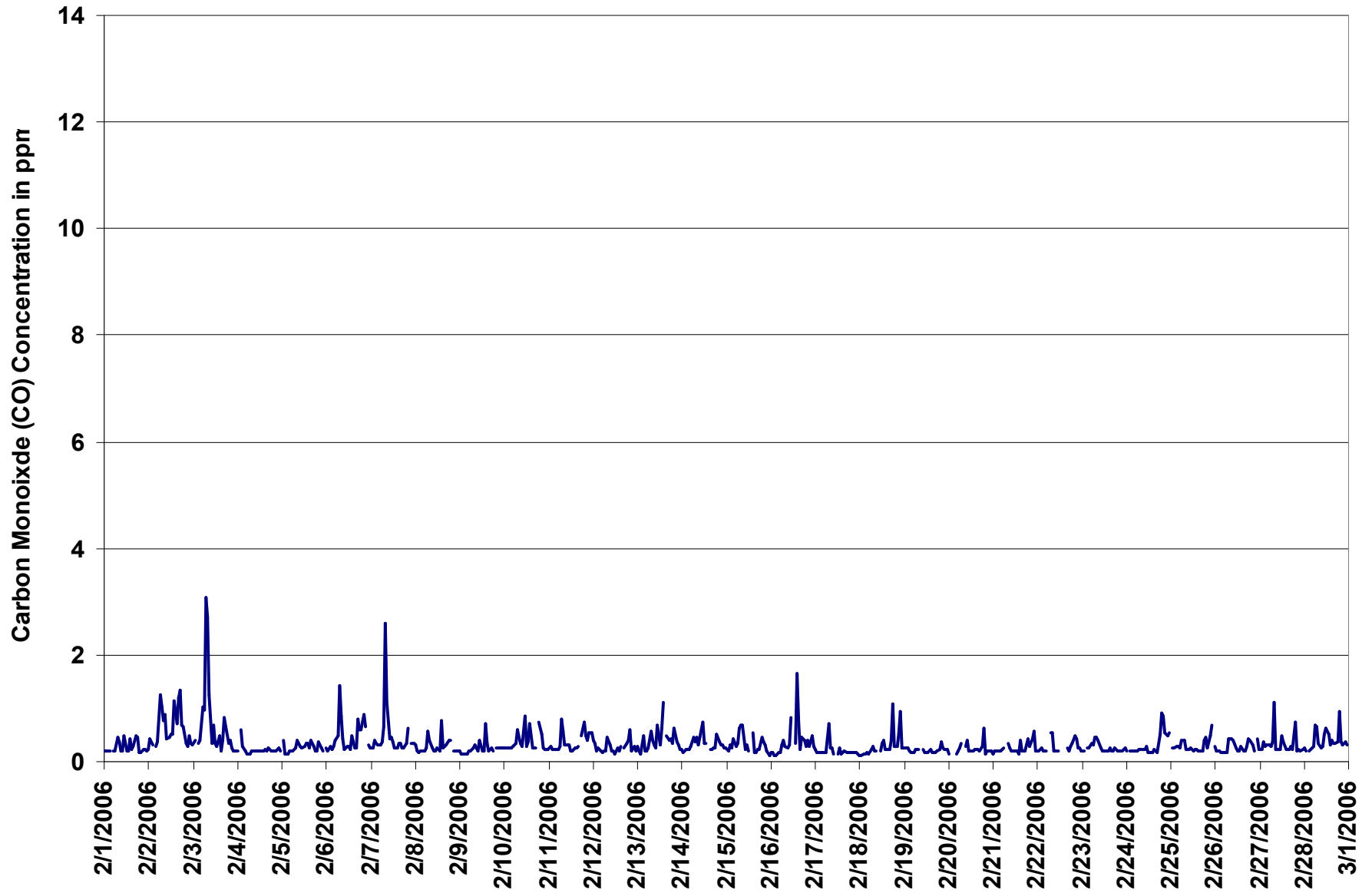
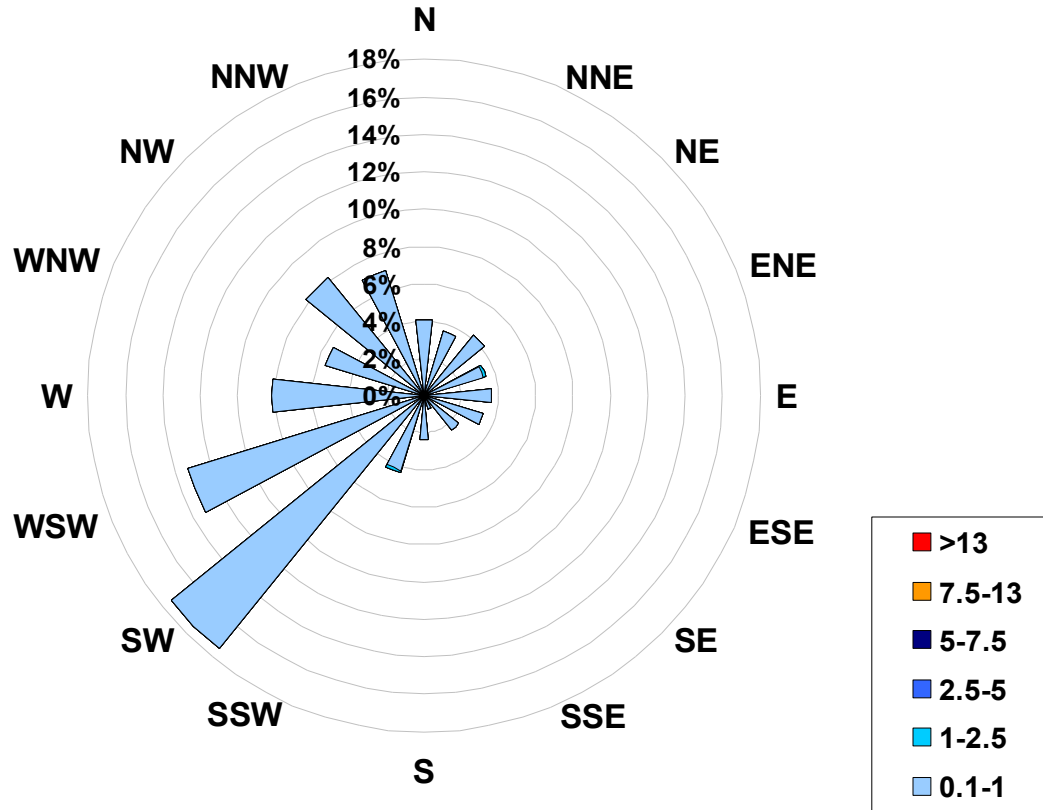


Figure 8. PAS - Crescent Heights Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 3%

Frequency Distribution of CO in ppm			
Range			Frequency (hrs)
0.1	<	1	633
1	to	2.5	3
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
	>	13	0
Total Non-Zero Values			636



PAS - Crescent Heights - Carbon Monoxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

EIGHT HOUR RUNNING AVERAGE TABLE

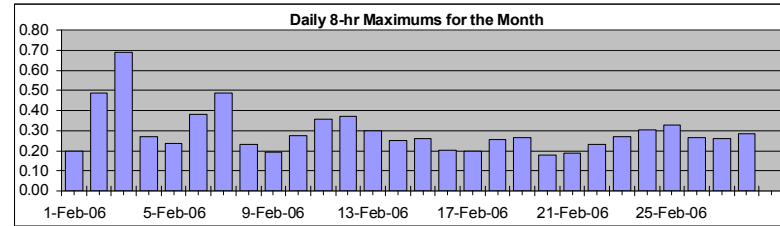
Carbon Monoxide (CO)

Monitoring Dates: February 1, 2006 to March 1, 2006

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

Number of 8-hr Exceedances:	0		
Maximum 8-hr Average:	0.7 ppm	3-Feb	9:00 10:00

Percentile	99	95	75	50	25	5	1
	0.5	0.4	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																							Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Feb-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	0.2	0.20
2-Feb-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.49
3-Feb-06	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.6	0.6	0.6	0.6	0.5	0.4	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.69
4-Feb-06	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	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.27
5-Feb-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	0.2	0.23
6-Feb-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	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.38
7-Feb-06	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.49
8-Feb-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	0.2	0.23
9-Feb-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	0.2	0.19
10-Feb-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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.27
11-Feb-06	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.36
12-Feb-06	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.37
13-Feb-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	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.30
14-Feb-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	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25
15-Feb-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.26
16-Feb-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20
17-Feb-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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.20
18-Feb-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.26
19-Feb-06	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.26
20-Feb-06	0.2	0.2	P	P	P	P	P	P	P	P	P	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18
21-Feb-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	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19
22-Feb-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	N	N	N	N	N	N	N	N	N	N	0.2	0.2	0.2	0.23
23-Feb-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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.27
24-Feb-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	0.3	0.30
25-Feb-06	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	0.2	0.3	0.3	0.33
26-Feb-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	0.2	0.26
27-Feb-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	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26
28-Feb-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	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.28
																										0.00

Hourly Max	0.38	0.36	0.34	0.32	0.28	0.27	0.31	0.43	0.64	0.69	0.63	0.63	0.62	0.59	0.54	0.45	0.41	0.39	0.39	0.39	0.37	0.35	0.37	0.38
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PAS - Crescent Heights - Total Hydrocarbons Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

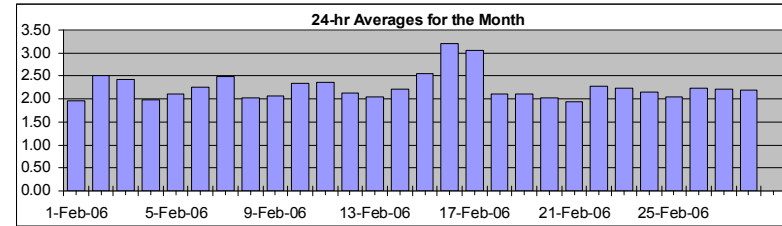
Total Hydrocarbons (THC)

Monitoring Dates: February 1, 2006 to March 1, 2006

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

Maximum 1-hr Average:	3.6	ppm	17-Feb	7:00 8:00
Maximum 24-hr Value:	3.2	ppm	16-Feb	

AIC Time:	30 hrs	Operational Time:	636 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.6	3.1	2.4	2.2	2.0	1.9	1.9	2.3 ppm	2.2 ppm



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
1-Feb-06	1.9	1.9	1.9	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	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.0	2.0	1.96	2.31
2-Feb-06	2.1	2.2	2.4	A	2.5	2.5	2.5	2.8	2.7	2.8	2.8	2.7	2.6	2.4	2.4	2.3	2.3	2.5	2.4	2.6	2.5	2.6	2.5	2.8	2.51	2.81	
3-Feb-06	2.6	2.5	A	2.7	2.8	2.9	3.2	3.3	3.6	2.6	2.4	2.3	2.2	2.1	2.1	2.0	2.0	2.2	2.3	2.1	2.1	2.0	2.0	2.0	2.43	3.60	
4-Feb-06	2.0	A	2.1	2.2	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.0	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.98	2.16	
5-Feb-06	A	2.0	1.9	2.0	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.2	2.2	2.2	2.3	2.2	2.2	2.1	2.0	2.0	2.1	2.1	2.0	A	2.11	2.25	
6-Feb-06	2.2	2.1	2.1	2.2	2.3	2.3	2.3	2.4	2.4	2.4	2.3	2.3	2.3	2.2	2.1	2.0	2.0	2.1	2.4	2.3	2.6	2.3	A	2.4	2.26	2.64	
7-Feb-06	2.4	2.4	2.6	2.5	2.6	2.7	2.9	2.9	3.2	2.9	2.8	2.6	2.5	2.4	2.3	2.2	2.2	2.5	2.1	2.1	2.1	A	2.2	2.2	2.49	3.17	
8-Feb-06	2.2	2.1	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.1	2.1	2.0	2.1	2.0	A	1.9	1.9	2.0	2.02	2.19	
9-Feb-06	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	A	2.1	2.1	2.1	2.1	2.06	2.15	
10-Feb-06	2.2	2.3	2.3	2.4	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.5	2.4	2.3	2.2	2.2	2.1	2.1	A	2.2	2.2	2.2	2.2	2.3	2.35	2.64	
11-Feb-06	2.3	2.3	2.4	2.4	2.4	2.4	2.5	2.6	2.6	2.7	2.6	2.5	2.3	2.2	2.1	2.0	2.0	A	2.3	2.4	2.3	2.3	2.4	2.5	2.36	2.65	
12-Feb-06	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.1	2.2	A	2.1	2.1	2.2	2.2	2.0	2.0	2.0	2.13	2.33	
13-Feb-06	2.0	2.1	2.1	2.1	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	A	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.05	2.11	
14-Feb-06	2.0	2.0	2.1	2.2	2.2	2.2	2.3	2.3	2.4	2.4	2.3	2.2	2.1	2.1	A	2.1	2.1	2.2	2.2	2.5	2.3	2.3	2.3	2.4	2.22	2.48	
15-Feb-06	2.5	2.5	2.8	2.8	3.0	3.0	3.0	2.9	2.8	2.7	2.7	2.7	2.5	A	2.4	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.3	2.3	2.55	3.02	
16-Feb-06	2.4	2.4	2.6	2.8	2.9	3.0	3.1	3.2	3.3	3.3	3.3	3.3	A	3.4	3.4	3.4	3.4	3.4	3.5	3.5	3.5	3.6	3.6	3.6	3.21	3.63	
17-Feb-06	3.6	3.6	3.5	3.5	3.6	3.6	3.6	3.6	3.6	3.5	3.4	A	3.3	3.1	3.0	2.8	2.6	2.5	2.4	2.4	2.3	2.3	2.3	2.3	3.06	3.63	
18-Feb-06	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	A	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.2	2.4	2.2	2.11	2.39	
19-Feb-06	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	A	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.1	2.1	2.1	2.11	2.34	
20-Feb-06	2.0	P	P	P	2.1	2.1	2.1	2.2	A	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.03	2.16	
21-Feb-06	2.0	2.1	2.1	2.1	2.1	2.1	2.0	A	2.1	2.1	2.0	2.0	1.9	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.95	2.14	
22-Feb-06	1.9	1.9	2.1	2.0	2.0	2.1	A	2.3	2.3	2.4	2.5	2.7	2.7	2.7	2.7	C	C	C	A	2.1	2.2	2.2	2.2	2.1	2.27	2.70	
23-Feb-06	2.1	2.1	A	2.2	2.7	2.7	2.5	2.6	2.6	2.4	2.3	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.1	2.1	2.0	2.0	2.1	2.1	2.24	2.72	
24-Feb-06	2.1	A	2.1	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.2	3.0	2.5	2.3	2.6	2.15	3.02	
25-Feb-06	A	2.2	1.9	2.0	2.1	2.0	1.9	1.9	1.9	1.9	1.9	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.3	2.2	2.2	2.3	A	2.04	2.28	
26-Feb-06	2.2	2.5	2.4	2.5	2.4	2.3	2.2	2.2	2.4	2.3	2.3	2.2	2.1	2.1	2.0	2.0	2.1	2.0	2.2	2.4	2.2	2.2	A	2.2	2.24	2.50	
27-Feb-06	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.3	2.3	2.2	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.21	2.52	
28-Feb-06	2.0	2.0	A	2.0	2.0	2.0	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.19	2.33	
																									N	0.00	
Hourly Avg	2.22	2.26	2.28	2.29	2.35	2.35	2.37	2.42	2.44	2.39	2.34	2.27	2.22	2.20	2.18	2.13	2.12	2.15	2.17	2.20	2.23	2.22	2.21	2.24			
Hourly Max	3.56	3.55	3.55	3.54	3.57	3.60	3.62	3.63	3.60	3.49	3.41	3.34	3.26	3.36	3.41	3.41	3.38	3.44	3.48	3.50	3.54	3.56	3.63	3.62			

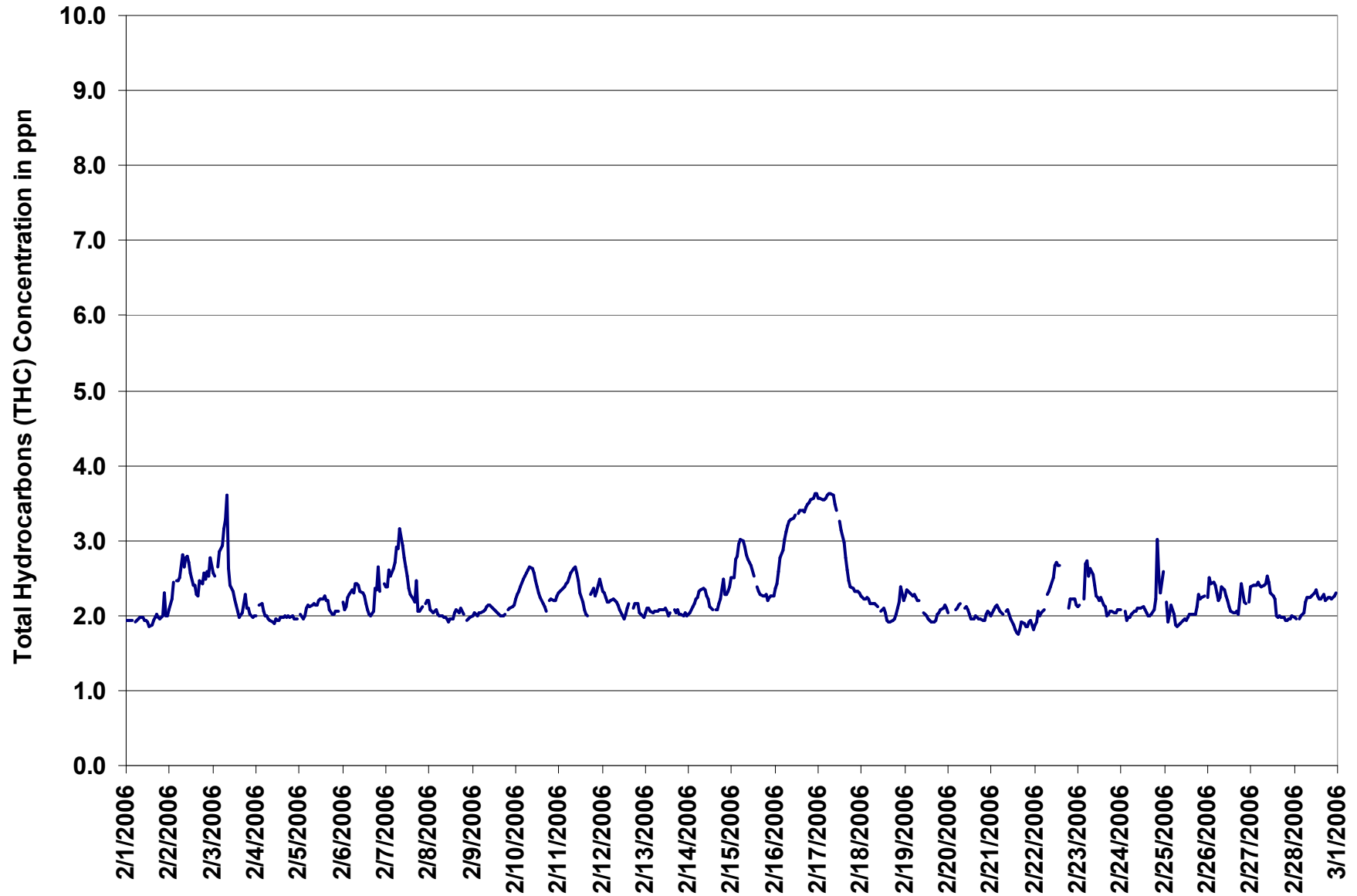


Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

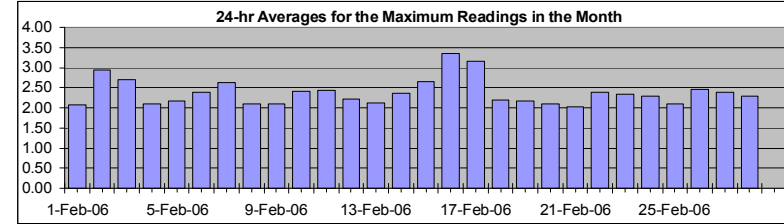
Total Hydrocarbons (THC)

Monitoring Dates: February 1, 2006 to March 1, 2006

Summary

Maximum 1-hr Value:	4.8	ppm	3-Feb	8:00 9:00
Maximum 24-hr Value:	3.3	ppm	16-Feb	

AIC Time:	30 hrs	Operational Time:	636 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.8	3.5	2.5	2.2	2.1	2.0	1.9	2.4 ppm	2.2 ppm



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Feb-06	2.0	2.0	2.0	2.0	A	1.9	2.0	2.0	2.0	2.1	2.0	2.0	1.9	1.9	1.9	2.0	2.1	2.1	2.2	2.0	2.3	2.6	2.1	2.4	2.07	2.62
2-Feb-06	2.2	2.6	2.6	A	2.6	2.6	3.0	3.8	2.7	2.9	3.1	2.8	2.6	2.5	2.6	2.5	2.5	3.5	3.2	3.4	3.2	3.3	4.0	3.5	2.95	3.95
3-Feb-06	2.8	3.1	A	2.9	3.0	3.5	4.2	3.8	4.8	3.2	2.5	2.4	2.3	2.2	2.2	2.0	2.1	2.3	2.3	2.2	2.2	2.1	2.0	2.0	2.71	4.84
4-Feb-06	2.0	A	3.2	3.0	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	2.0	2.0	2.0	2.0	2.11	3.16
5-Feb-06	A	2.1	2.0	2.2	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.2	2.1	2.1	2.2	2.1	2.1	A	A	2.18	2.32
6-Feb-06	2.2	2.1	2.2	2.3	2.4	2.4	2.4	2.6	2.5	2.5	2.4	2.3	2.3	2.2	2.2	2.1	2.0	2.3	2.5	3.0	2.9	2.5	A	2.6	2.39	3.03
7-Feb-06	2.5	2.5	2.8	2.7	2.8	2.9	3.0	3.0	3.5	3.1	2.9	2.7	2.7	2.4	2.3	2.3	2.3	3.0	2.2	2.1	2.2	A	2.2	2.3	2.64	3.49
8-Feb-06	2.3	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.0	2.1	2.1	2.0	2.0	2.0	2.3	2.1	2.1	2.2	2.2	2.2	A	2.0	2.0	2.0	2.09	2.29
9-Feb-06	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.1	A	2.1	2.1	2.2	2.2	2.10	2.22
10-Feb-06	2.3	2.3	2.4	2.4	2.5	2.6	2.6	2.7	2.7	2.7	2.6	2.6	2.4	2.4	2.5	2.2	2.2	2.1	A	2.4	2.3	2.2	2.2	2.3	2.42	2.70
11-Feb-06	2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.6	2.8	2.7	2.6	2.5	2.4	2.3	2.1	2.0	2.1	A	2.5	2.5	2.3	2.4	2.6	2.7	2.44	2.75
12-Feb-06	2.5	2.4	2.3	2.2	2.2	2.2	2.3	2.2	2.3	2.2	2.1	2.1	2.0	2.1	2.2	2.2	A	2.1	2.3	2.3	2.4	2.1	2.1	2.0	2.21	2.48
13-Feb-06	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	A	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.0	2.12	2.20
14-Feb-06	2.1	2.1	2.1	2.2	2.2	2.3	2.4	2.4	2.4	2.4	2.3	2.3	2.2	2.1	A	2.1	2.2	2.4	2.9	3.7	2.4	2.4	2.4	2.4	2.37	3.66
15-Feb-06	2.6	2.6	3.3	2.9	3.1	3.1	3.0	3.0	2.9	2.8	2.8	2.7	2.6	A	2.5	2.4	2.3	2.3	2.3	2.4	2.3	2.3	2.4	2.3	2.65	3.27
16-Feb-06	2.4	2.5	2.7	3.2	3.0	3.1	3.2	3.3	3.3	3.3	3.4	3.7	A	3.4	3.7	3.6	3.4	3.7	3.6	3.6	3.6	3.8	3.8	3.8	3.34	3.80
17-Feb-06	3.6	3.6	3.6	3.6	3.6	3.6	3.8	4.2	3.8	3.5	3.5	A	3.3	3.2	3.1	2.9	2.7	2.5	2.4	2.4	2.4	2.4	2.3	2.3	3.15	4.18
18-Feb-06	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	A	2.1	2.2	2.1	2.0	2.0	2.0	2.3	2.0	2.0	2.2	2.4	2.5	2.18	2.51
19-Feb-06	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.2	2.2	A	2.1	2.0	2.0	2.0	2.0	1.9	2.0	2.1	2.1	2.1	2.1	2.3	2.2	2.2	2.16	2.40
20-Feb-06	2.1	P	P	P	2.1	2.1	2.2	2.2	A	2.2	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.09	2.24
21-Feb-06	2.0	2.2	2.2	2.2	2.2	2.1	2.0	A	2.1	2.2	2.1	2.0	1.9	1.8	1.8	1.9	1.9	2.0	2.0	1.9	2.1	2.1	2.1	1.9	2.03	2.24
22-Feb-06	2.0	2.0	2.1	2.1	2.1	2.2	A	2.4	2.4	2.5	2.5	3.3	2.8	2.7	2.7	C	C	C	A	2.3	2.4	2.4	2.3	2.2	2.39	3.27
23-Feb-06	2.1	2.2	A	2.3	2.8	3.0	2.6	2.8	2.7	2.5	2.4	2.4	2.3	2.3	2.3	2.2	2.0	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.34	2.96
24-Feb-06	2.1	A	2.1	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.0	2.1	2.1	2.2	2.4	3.7	3.5	2.6	2.8	2.29	3.73
25-Feb-06	A	2.3	2.0	2.1	2.2	2.2	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.4	2.3	2.3	2.3	A	2.10	2.43
26-Feb-06	2.5	2.6	2.5	2.6	2.5	2.4	2.3	2.4	2.9	2.4	2.4	2.4	2.2	2.1	2.1	2.1	2.1	2.1	3.1	3.1	3.0	2.3	A	2.4	2.47	3.11
27-Feb-06	2.7	2.8	2.8	2.5	3.1	2.9	2.5	2.5	2.5	3.0	2.6	2.6	2.3	2.4	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.40	3.10
28-Feb-06	2.0	2.0	A	2.0	2.0	2.1	2.3	2.4	2.3	2.3	2.3	2.4	2.5	2.4	2.3	2.3	2.4	2.3	2.3	2.5	2.3	2.3	2.3	2.4	2.28	2.49
																									N	0.00
Hourly Avg	2.32	2.37	2.42	2.41	2.46	2.46	2.49	2.57	2.57	2.48	2.42	2.38	2.29	2.27	2.28	2.20	2.19	2.30	2.35	2.43	2.41	2.37	2.36	2.35		
Hourly Max	3.61	3.59	3.58	3.58	3.64	3.64	4.20	4.18	4.84	3.53	3.47	3.72	3.33	3.39	3.72	3.56	3.42	3.68	3.56	3.66	3.73	3.80	3.95	3.76		

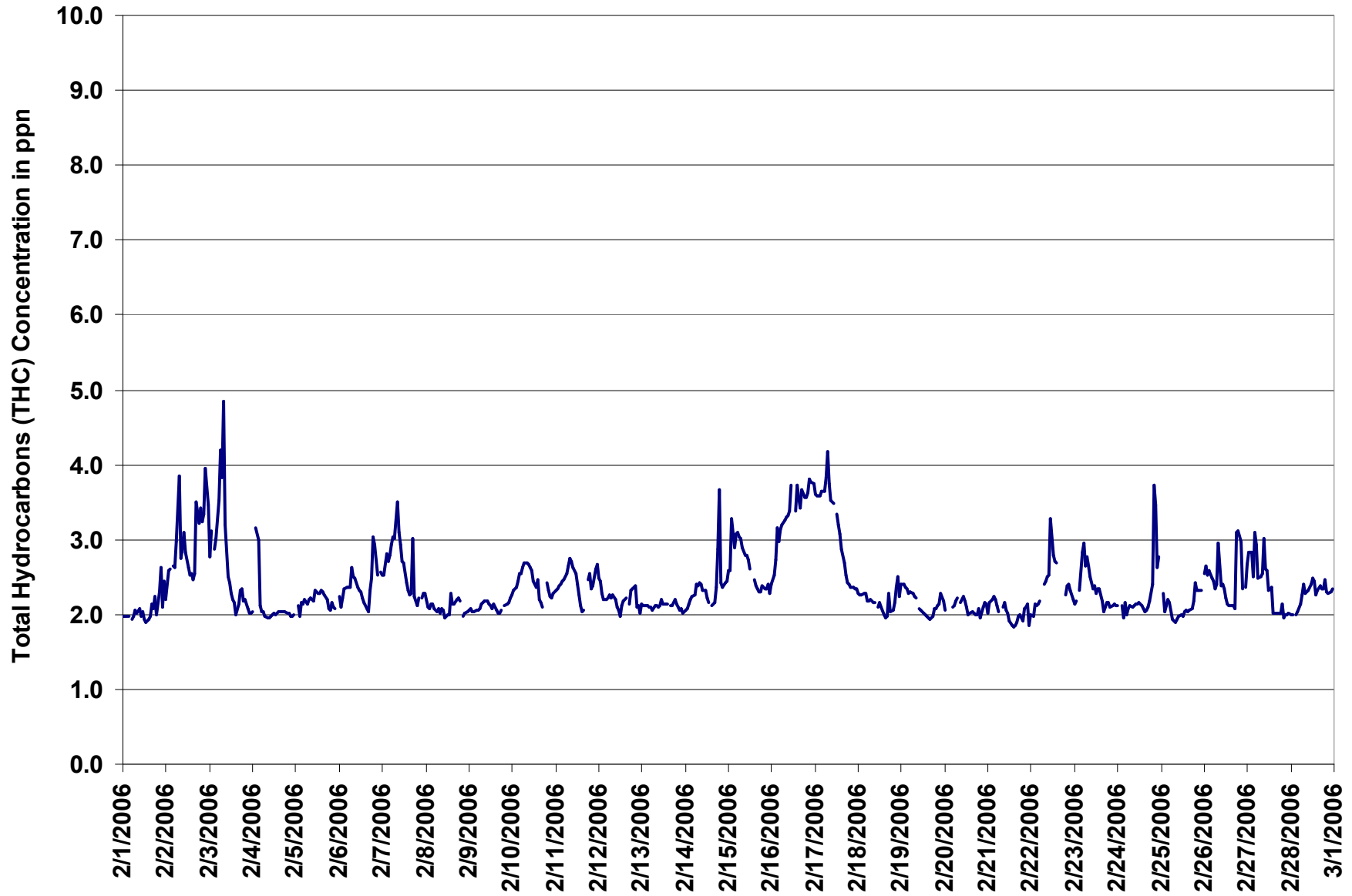
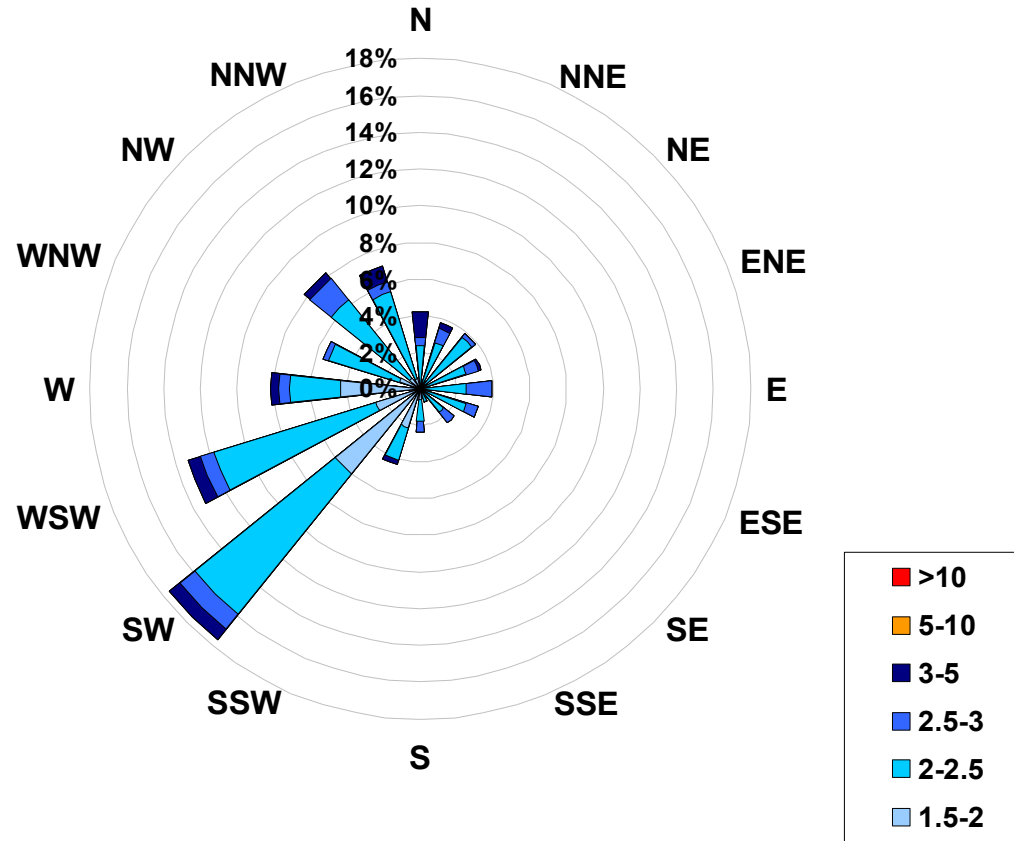


Figure 10. PAS - Crescent Heights Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 3%

Frequency Distribution of THC in ppm			Frequency (hrs)
Range			
1.5	<	2	128
2	to	2.5	403
2.5	to	3	68
3	to	5	37
5	to	10	0
	>	10	0
Total Non-Zero Values			636



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

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

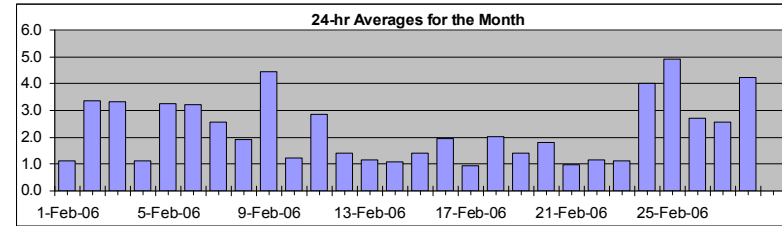
Particulate Matter (PM_{2.5})

Monitoring Dates: February 1, 2006 to March 1, 2006

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

Number of 24-hr Exceedances (draft):	0		
Maximum 1-hr Average:	17.1 $\mu\text{g}/\text{m}^3$	3-Feb	8:00 9:00
Maximum 24-hr Value:	4.9 $\mu\text{g}/\text{m}^3$	25-Feb	

AIC Time:	0 hrs	Operational Time:	661 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	98.8%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	9.7	6.4	3.3	1.8	0.6	0.0	0.0	2.3	2.0 $\mu\text{g}/\text{m}^3$



Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Feb-06	0	D	0	0	0	0	0	0	1	1	1	0	1	1	2	4	0	4	3	1	1	2	1	2	1.1	4.0	
2-Feb-06	4	1	2	2	3	1	0	0	3	9	5	4	4	5	4	4	3	7	5	4	1	3	3	3	3.3	8.7	
3-Feb-06	2	3	2	2	3	4	5	8	17	4	0	0	0	0	0	1	10	9	3	3	1	0	0	3.3	17.1		
4-Feb-06	0	0	0	0	0	0	D	0	0	D	2	3	1	3	4	4	2	0	1	1	1	0	2	1	1.1	4.4	
5-Feb-06	2	3	1	2	4	4	5	3	3	5	4	4	5	5	5	7	0	0	3	3	5	2	2	3.3	6.7		
6-Feb-06	3	3	3	2	0	1	2	6	3	2	0	1	3	2	1	1	2	6	7	6	9	6	4	3	3.2	9.2	
7-Feb-06	3	3	6	2	1	1	2	6	11	5	3	4	1	0	1	1	2	1	0	1	1	1	3	3	2.6	11.4	
8-Feb-06	2	0	0	0	0	0	0	1	0	1	1	3	3	4	12	7	3	1	4	1	0	0	2	0	1.9	12.0	
9-Feb-06	0	0	0	0	2	1	1	1	2	3	3	17	7	4	17	17	9	4	4	3	3	3	2	3	4.4	16.8	
10-Feb-06	3	2	1	2	0	2	1	2	3	2	1	0	0	0	0	0	0	0	2	5	2	1	1	0	1.2	4.8	
11-Feb-06	0	0	0	0	0	1	2	2	5	2	2	2	2	2	1	2	2	3	6	8	8	6	7	5	2.9	7.9	
12-Feb-06	3	1	1	0	0	0	0	0	1	0	0	D	1	3	4	4	2	2	3	4	0	1	2	1	1.4	4.1	
13-Feb-06	2	3	1	1	1	1	1	1	3	2	1	4	6	0	0	0	0	0	0	1	0	0	0	1	1.2	5.9	
14-Feb-06	0	0	0	0	0	0	0	1	1	2	2	2	0	2	4	2	0	1	2	4	0	1	1	2	1.1	3.7	
15-Feb-06	2	2	2	1	2	3	2	2	1	0	1	0	0	0	2	0	0	3	2	1	5	1	2	0	1.4	5.1	
16-Feb-06	3	2	2	1	1	2	1	2	3	1	2	2	1	2	3	1	1	2	2	3	2	2	2	3	2.0	3.2	
17-Feb-06	2	1	1	1	1	1	2	3	4	2	2	2	0	0	0	0	1	0	0	0	0	0	0	0	0.9	4.3	
18-Feb-06	0	0	0	0	0	0	0	0	1	1	3	3	3	3	6	1	3	1	2	2	4	5	7	3	2.0	6.8	
19-Feb-06	4	4	3	2	2	1	3	2	1	0	1	0	0	0	0	0	0	0	0	1	2	2	4	3	1.4	4.3	
20-Feb-06	0	P	P	P	1	1	1	2	1	1	1	1	4	3	2	2	3	0	3	3	1	4	1	1	1.8	4.2	
21-Feb-06	0	1	0	1	2	2	2	0	0	0	0	0	0	D	0	0	0	0	1	1	1	2	4	3	1.0	3.8	
22-Feb-06	2	1	0	2	0	1	1	3	2	1	2	2	0	0	2	C	C	C	0	0	0	3	1	0	1.2	3.5	
23-Feb-06	0	0	1	1	2	2	2	2	2	1	0	0	0	0	0	0	0	1	2	1	2	2	2	1	1.1	2.4	
24-Feb-06	3	3	3	3	4	3	3	4	4	5	3	4	4	3	3	3	3	3	4	4	7	6	7	6	4.0	7.0	
25-Feb-06	4	5	4	5	6	6	6	5	4	4	7	5	4	5	6	7	4	2	4	5	5	4	5	3	4.9	6.9	
26-Feb-06	3	3	2	1	2	1	1	2	3	4	2	3	3	3	2	3	4	3	4	3	4	4	4	2	2.7	4.5	
27-Feb-06	2	3	3	3	3	3	4	4	4	3	4	2	7	6	1	1	1	0	0	0	2	2	2	2	2.6	6.8	
28-Feb-06	2	1	1	1	3	2	1	4	4	5	5	4	5	3	2	6	5	5	9	7	9	5	7	8	4.2	9.1	
																									N	0.0	
Hourly Avg	1.8	1.7	1.4	1.3	1.5	1.6	1.8	2.4	3.2	2.5	2.2	2.7	2.3	2.2	3.0	2.8	2.1	2.2	2.8	2.7	2.7	2.6	2.7	2.2			
Hourly Max	4.4	4.6	5.8	5.3	6.4	5.9	6.3	8.1	17.1	8.7	6.9	16.6	7.3	5.8	16.6	16.8	8.5	10.4	8.8	7.8	9.2	6.4	6.9	7.7			

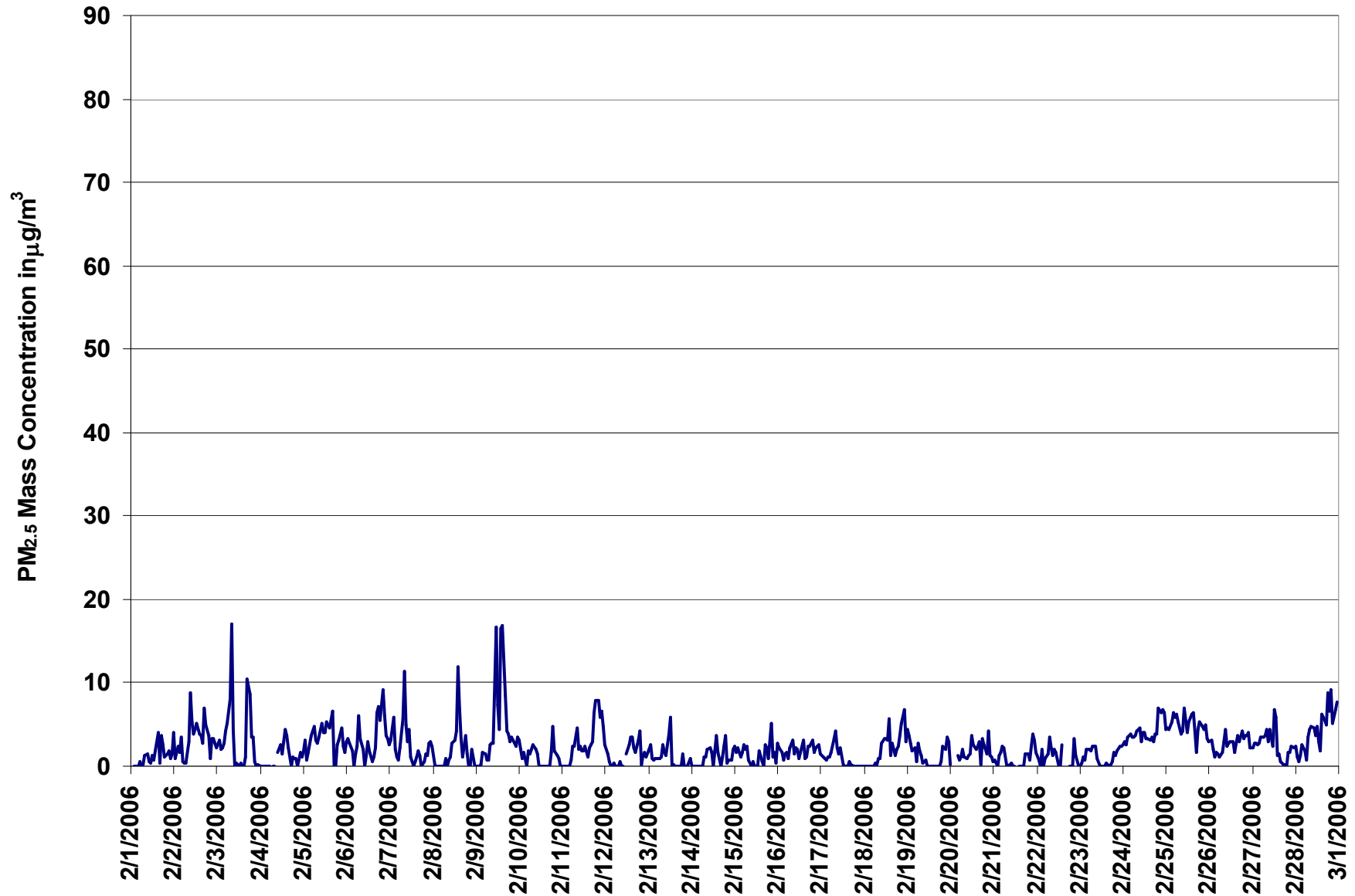


Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

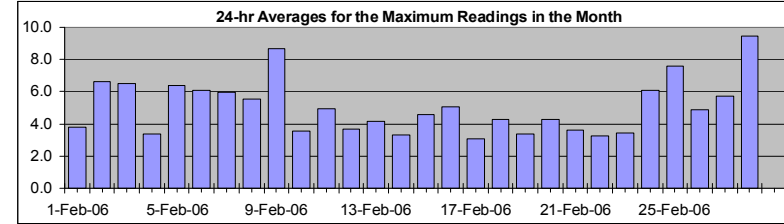
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: February 1, 2006 to March 1, 2006

Summary

Maximum 1-hr Average:	35.9	µg/m ³	9-Feb	11:00 12:00
Maximum 24-hr Value:	9.5	µg/m ³	28-Feb	



AIC Time:	0 hrs	Operational Time:	661 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	98.8%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	19.2	12.0	6.1	4.4	2.8	1.0	0.2	5.1	5 µg/m ³
									4.8 µg/m ³

Status Flag Characters

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

Day Mountain Standard Time

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-Feb-06	0	D	0	0	0	4	1	3	8	3	3	3	4	4	15	8	3	6	5	3	4	3	3	3	3.8	14.9
2-Feb-06	6	5	4	4	5	4	3	2	6	14	11	10	11	11	9	6	5	12	7	7	2	6	6	4	6.6	13.7
3-Feb-06	4	6	4	4	5	8	6	12	21	16	2	3	2	3	1	2	5	20	13	7	7	3	2	2	6.5	20.9
4-Feb-06	0	0	0	0	2	0	D	0	3	D	4	5	5	5	12	6	6	3	3	2	3	3	6	3	3.3	12.2
5-Feb-06	3	14	5	3	6	7	6	5	5	5	7	6	6	8	7	8	9	5	5	4	5	8	6	9	6.4	14.0
6-Feb-06	7	6	5	4	2	4	4	17	5	5	3	4	5	4	2	4	4	12	9	7	13	11	5	5	6.1	16.5
7-Feb-06	5	5	14	5	4	5	5	8	16	17	6	8	3	2	2	4	5	3	1	3	4	3	7	6	6.0	16.8
8-Feb-06	6	3	1	2	1	3	2	5	2	4	4	5	6	7	29	19	6	4	7	7	1	2	4	3	5.5	29.2
9-Feb-06	1	1	1	3	3	3	2	2	4	6	14	36	12	12	28	26	17	6	6	4	5	6	4	6	8.7	35.9
10-Feb-06	5	4	2	4	2	3	3	5	4	4	3	2	4	1	1	2	3	2	4	10	7	4	3	3	3.6	9.7
11-Feb-06	1	2	2	1	2	4	5	4	8	5	6	4	4	5	3	4	4	5	9	11	10	8	8	6	5.0	11.0
12-Feb-06	4	3	2	1	1	2	1	2	2	2	1	D	6	6	6	6	4	3	5	6	6	7	4	3	3.7	7.4
13-Feb-06	5	5	2	3	3	3	3	5	9	4	5	9	16	1	2	0	2	2	6	8	2	1	1	3	4.2	15.8
14-Feb-06	1	2	2	1	0	1	1	2	2	4	6	5	4	4	7	9	2	3	4	6	4	2	4	4	3.3	9.1
15-Feb-06	5	4	5	3	4	6	5	4	3	2	5	6	2	2	4	3	2	6	5	9	13	5	4	3	4.6	13.5
16-Feb-06	7	4	4	3	3	3	3	5	6	4	6	5	8	4	6	5	9	7	7	5	4	4	5	6	5.1	8.8
17-Feb-06	3	3	2	2	3	3	3	7	6	6	4	4	3	3	4	1	4	3	1	1	3	2	1	0	3.0	7.1
18-Feb-06	1	1	1	1	2	2	2	2	3	3	5	5	7	5	10	8	4	3	4	4	8	8	9	5	4.3	10.3
19-Feb-06	6	5	4	3	5	5	5	4	3	2	2	2	1	3	3	1	2	1	2	2	4	4	7	6	3.4	6.6
20-Feb-06	2	P	P	P	3	2	3	5	4	3	3	3	9	5	5	4	5	2	8	8	4	6	4	3	4.3	9.3
21-Feb-06	3	3	2	3	4	6	11	2	1	2	2	2	3	D	1	5	2	2	4	6	3	4	6	5	3.6	11.1
22-Feb-06	4	3	2	5	1	3	3	5	5	4	5	4	1	3	5	C	C	C	1	1	2	6	3	1	3.3	6.3
23-Feb-06	0	2	5	3	4	4	4	3	5	4	4	1	1	0	1	3	2	2	4	6	4	8	6	6	3.4	8.3
24-Feb-06	6	9	5	5	6	4	5	6	6	7	4	5	6	5	5	4	5	5	6	6	12	8	9	8	6.1	12.0
25-Feb-06	9	8	6	8	8	8	14	7	5	6	14	9	5	7	8	9	7	5	7	7	7	6	6	6	7.6	14.0
26-Feb-06	5	5	4	3	4	3	3	4	5	6	5	5	5	6	4	5	5	6	7	6	5	6	6	4	4.9	7.5
27-Feb-06	6	7	5	5	6	7	5	7	8	7	10	5	16	9	4	5	4	3	2	3	3	4	5	4	5.7	15.6
28-Feb-06	5	3	6	7	6	5	5	5	6	8	8	10	10	10	10	20	17	9	16	14	17	9	11	11	9.5	20.2
																									N	0.0
Hourly Avg	4.0	4.3	3.6	3.1	3.4	4.0	4.2	4.9	5.7	5.7	5.3	6.1	5.9	4.9	6.9	6.6	5.4	5.2	5.7	5.8	5.8	5.3	5.1	4.6		
Hourly Max	9.3	14.0	13.8	7.7	7.7	8.5	14.0	16.5	20.9	16.8	14.3	35.9	15.8	11.9	29.2	25.5	17.4	19.9	15.5	13.5	16.6	10.5	10.8	11.0		

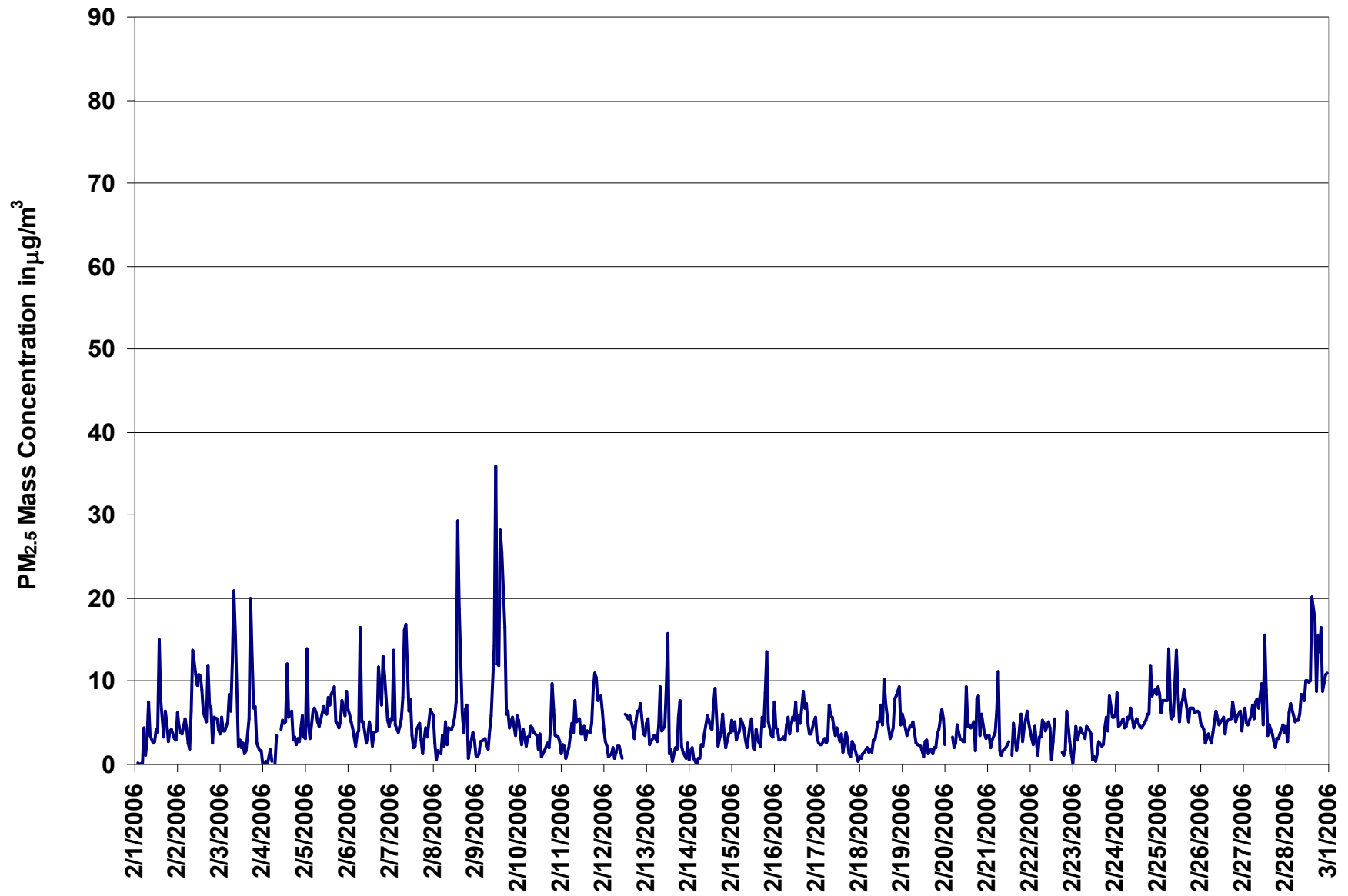
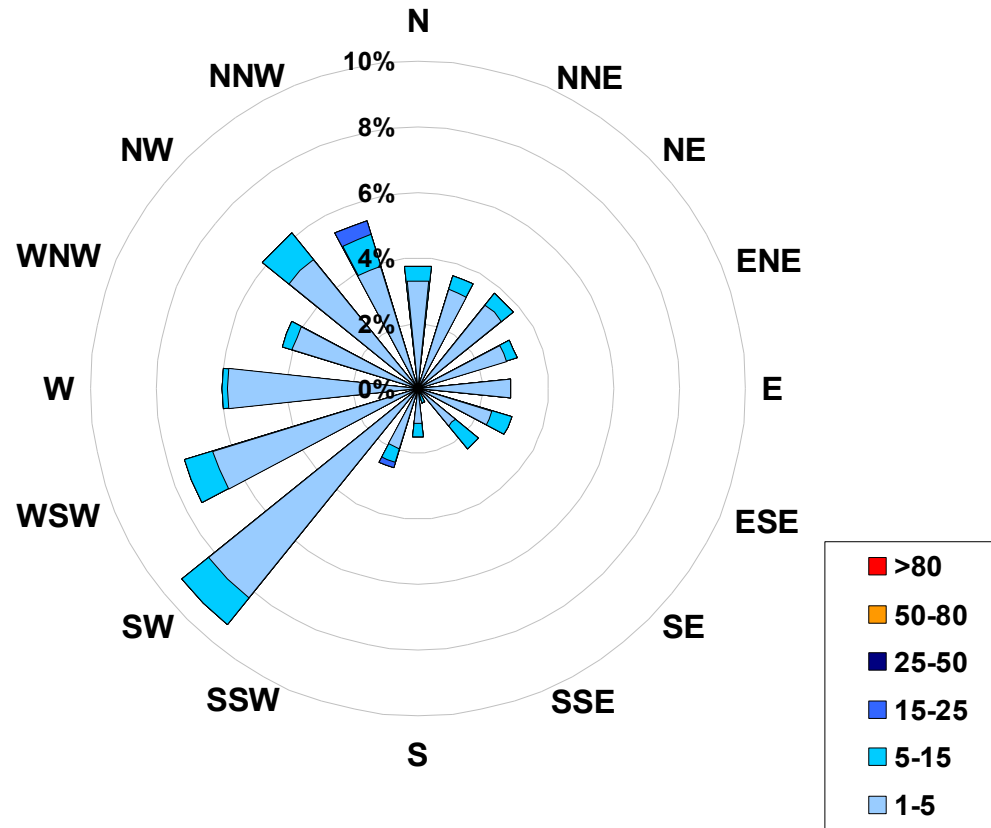


Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend



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 February 2006



Calms: 3%

Frequency Distribution of PM _{2.5} in $\mu\text{g}/\text{m}^3$			
Range		Frequency (hrs)	
1.0	< 5	597	
5	to 15	60	
15	to 25	4	
25	to 50	0	
50	to 80	0	
	> 80	0	
Total Non-Zero Values			661



PAS - Crescent Heights - Relative Humidity Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

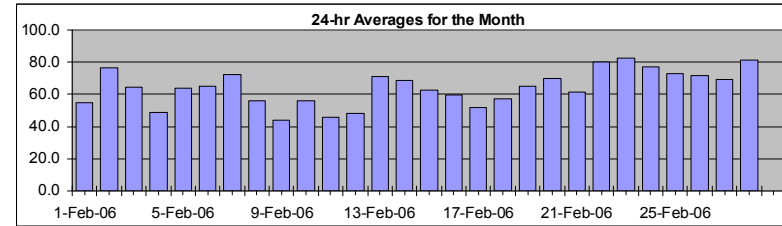
Relative Humidity (RH)

Monitoring Dates: February 1, 2006 to March 1, 2006

Summary

Maximum 1-hr Average:	90.6	%	13-Feb	15:00 16:00
Maximum 24-hr Value:	82.5	%	23-Feb	

AIC Time:	0 hrs	Operational Time:	669 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	87.3	85.1	76.9	64.6	53.8	37.1	28.9	64.2 %	64.6 %



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
1-Feb-06	62	59	57	54	52	55	60	65	64	62	62	60	53	49	42	45	43	50	53	52	53	56	57	56	55.1	65.0
2-Feb-06	68	79	83	86	87	88	88	87	87	87	86	80	71	56	57	56	59	65	68	71	76	82	85	85	76.5	87.8
3-Feb-06	85	86	86	87	86	87	86	85	82	72	64	56	48	43	38	32	33	41	50	60	60	60	58	62	64.4	86.8
4-Feb-06	61	62	66	66	57	49	42	35	33	29	30	36	37	40	44	50	53	49	48	51	57	59	60	64	49.1	66.3
5-Feb-06	67	63	55	55	57	62	64	66	66	63	63	64	66	66	64	65	77	69	55	56	61	68	72	67	63.8	76.7
6-Feb-06	69	79	80	80	69	67	68	70	68	65	58	51	52	51	52	50	49	52	59	62	70	77	79	81	64.9	81.1
7-Feb-06	80	80	82	84	85	84	84	84	81	76	78	77	67	55	51	47	54	58	61	65	71	75	76	77	72.2	84.7
8-Feb-06	75	69	61	62	62	61	59	54	51	45	39	37	29	31	40	66	67	65	68	68	60	55	59	56	55.9	75.5
9-Feb-06	45	41	41	41	43	45	47	48	46	46	44	40	38	36	34	33	36	40	43	46	51	56	56	59	44.0	58.9
10-Feb-06	65	66	66	68	65	66	67	68	65	59	60	53	47	40	37	34	35	40	45	52	61	64	64	63	56.2	68.3
11-Feb-06	62	58	54	49	50	51	55	55	44	38	33	31	28	28	29	28	30	35	41	47	54	61	65	66	45.6	65.5
12-Feb-06	68	69	67	66	66	65	64	59	55	44	38	27	22	29	29	31	33	38	42	47	54	44	46	50	48.0	68.7
13-Feb-06	52	56	60	62	65	64	63	57	55	54	50	51	74	85	89	91	89	89	84	83	84	85	83	85	71.2	90.6
14-Feb-06	85	80	76	75	67	64	64	63	61	57	61	62	61	60	67	77	72	71	72	76	73	68	67	68	68.7	85.2
15-Feb-06	65	68	71	70	70	71	70	70	66	65	65	60	51	51	51	49	48	55	59	57	75	72	64	57	62.6	75.1
16-Feb-06	62	67	68	67	69	69	66	63	61	55	56	53	49	48	54	50	49	52	56	61	64	63	61	62	59.4	69.2
17-Feb-06	63	62	62	62	63	64	64	62	59	57	54	54	51	42	39	36	38	43	44	46	46	45	45	45	51.9	64.1
18-Feb-06	46	47	48	49	47	48	49	50	49	49	51	51	47	50	57	60	62	68	73	73	74	77	77	76	57.3	77.0
19-Feb-06	75	76	77	78	79	79	80	80	79	69	63	58	50	48	46	47	48	52	59	62	63	64	65	66	65.1	80.1
20-Feb-06	67	P	P	P	68	67	66	69	67	61	56	51	55	61	64	66	75	75	75	86	86	84	84	86	70.0	86.4
21-Feb-06	83	77	74	72	75	83	84	82	69	63	61	58	53	45	37	37	37	42	48	50	53	57	61	73	61.4	84.1
22-Feb-06	83	85	81	81	81	80	82	83	83	79	78	72	71	70	74	78	78	79	83	84	85	85	85	83	80.1	85.2
23-Feb-06	84	84	83	83	83	82	82	82	81	77	73	74	75	80	85	85	86	87	87	87	86	85	84	84	82.5	86.9
24-Feb-06	83	79	76	77	78	78	78	78	77	74	72	71	72	72	71	73	74	77	82	82	83	82	81	80	77.0	82.9
25-Feb-06	79	79	78	78	78	78	79	78	77	75	71	66	62	59	59	59	64	70	76	78	78	77	76	78	73.1	79.2
26-Feb-06	78	78	78	79	79	78	75	76	73	66	64	63	60	57	60	63	68	71	73	75	77	76	77	81	71.9	81.2
27-Feb-06	81	81	81	81	81	81	79	79	74	69	63	64	57	56	58	56	58	61	64	63	66	70	71	75	69.5	81.2
28-Feb-06	76	74	73	75	74	80	83	81	83	83	83	83	83	83	83	85	84	83	83	82	83	81	82	84	81.1	84.9
																									N	0.0
Hourly Avg	70.3	70.5	69.8	69.8	69.1	69.5	69.6	69.0	66.3	62.1	59.9	57.3	54.6	53.3	54.0	55.3	57.1	59.9	62.5	65.1	68.0	68.9	69.3	70.3		
Hourly Max	85.2	85.6	86.0	86.8	87.5	87.6	87.8	87.2	86.7	87.1	85.8	82.9	82.8	84.8	88.8	90.6	89.3	89.0	86.9	86.9	86.4	85.2	84.6	86.1		

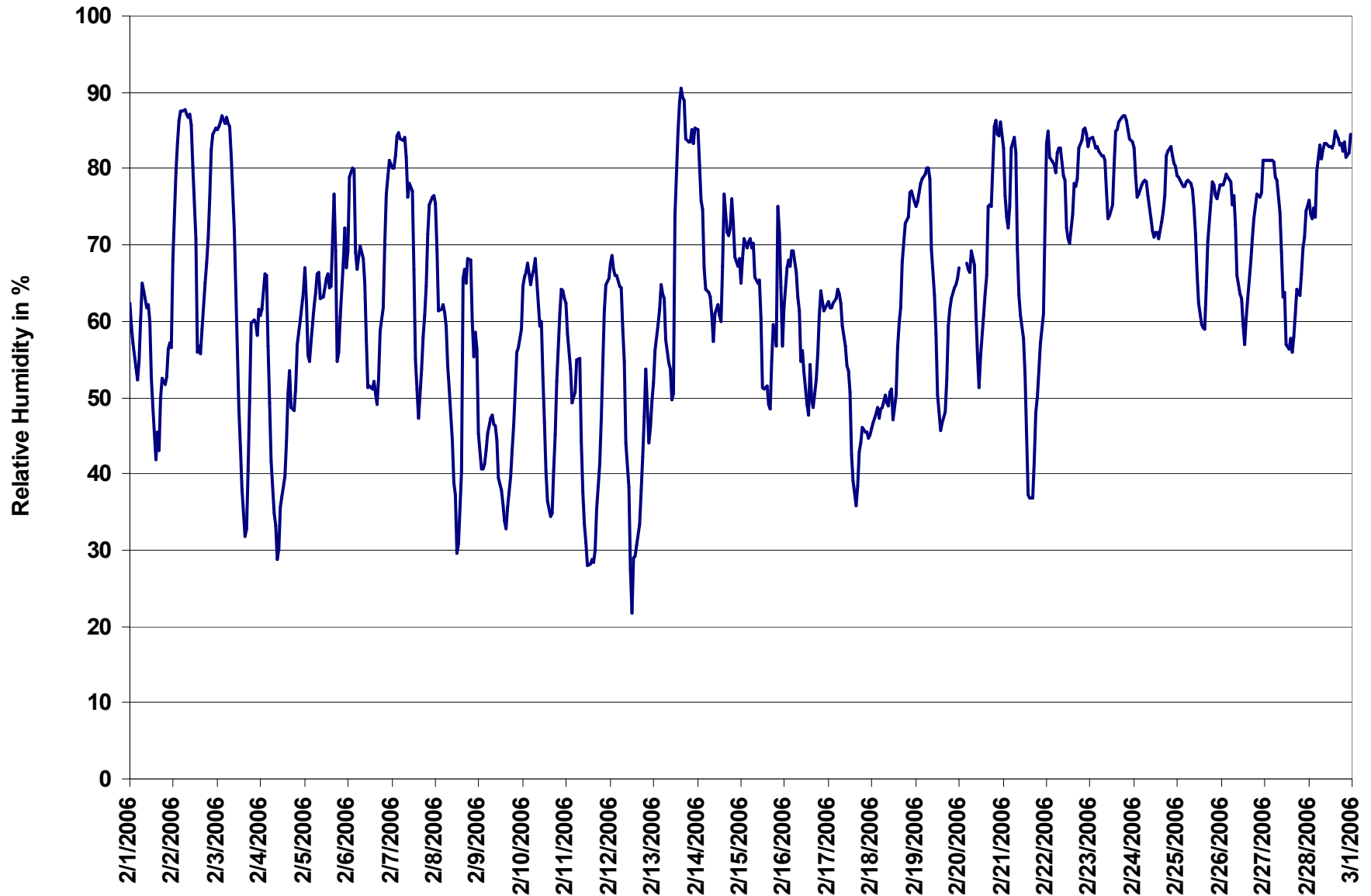


Figure 13. PAS - Crescent Heights Relative Humidity 1-hr Average Monthly Trend



PAS - Crescent Heights - Temperature Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

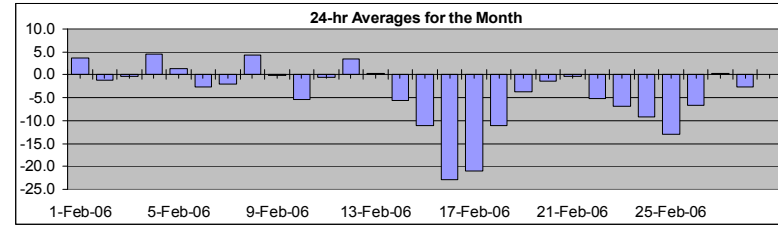
Ambient Temperature (T)

Monitoring Dates: February 1, 2006 to March 1, 2006

Summary

Maximum 1-hr Average:	13.8	°C	8-Feb	13:00 14:00
Maximum 24-hr Value:	4.6	°C	4-Feb	

AIC Time:	0 hrs	Operational Time:	669 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	10.3	7.0	1.1	-3.4	-7.8	-18.5	-27.2	-4.1 °C	-3.4 °C



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Feb-06	1	1	2	2	3	2	1	0	1	2	3	4	6	7	8	9	8	5	5	5	5	4	3	3	3.7	8.7
2-Feb-06	1	-1	-2	-3	-3	-4	-5	-6	-6	-5	-2	0	2	5	5	4	3	1	1	0	-1	-2	-3	-4	-1.1	4.9
3-Feb-06	-4	-5	-5	-5	-6	-6	-7	-7	-6	-2	0	2	4	6	7	8	7	4	2	0	1	1	1	1	-0.3	8.4
4-Feb-06	1	0	-1	-1	1	3	4	6	7	7	7	7	8	9	8	8	7	6	5	3	3	3	2	2	4.6	8.7
5-Feb-06	1	2	3	3	2	1	1	1	1	2	3	3	3	4	4	3	1	1	0	0	-1	-1	-1	-1	1.4	3.9
6-Feb-06	-2	-3	-3	-4	-4	-5	-6	-6	-5	-4	-3	-1	0	2	1	1	1	0	-1	-2	-3	-5	-6	-6	-2.6	1.6
7-Feb-06	-7	-7	-8	-7	-7	-8	-8	-8	-7	-4	-3	0	3	5	6	7	5	4	3	1	0	-1	-1	-1	-1.9	7.0
8-Feb-06	0	1	2	2	1	1	1	2	3	5	7	9	14	14	12	5	4	3	3	2	3	3	3	3	4.3	13.8
9-Feb-06	2	2	1	0	0	-1	-2	-2	-1	0	0	2	2	3	3	3	2	1	0	-1	-2	-3	-4	-4	0.0	2.8
10-Feb-06	-6	-6	-6	-7	-8	-8	-9	-9	-8	-6	-5	-4	-3	-1	-1	-1	-1	-2	-4	-5	-7	-8	-8	-8	-5.3	-0.6
11-Feb-06	-8	-7	-6	-5	-5	-6	-6	-6	-2	0	2	3	5	6	7	7	7	5	3	1	-1	-3	-4	-4	-0.5	7.4
12-Feb-06	-4	-5	-4	-3	-3	-3	-2	-1	1	5	7	10	12	10	11	10	10	8	7	6	3	3	2	1	3.4	11.9
13-Feb-06	1	0	-1	-1	-2	-1	-1	1	2	3	4	4	3	2	1	0	0	0	0	0	-1	-1	-2	-2	0.3	4.2
14-Feb-06	-3	-3	-3	-4	-5	-6	-7	-7	-7	-4	-3	-1	-1	-1	-2	-4	-5	-7	-9	-10	-11	-12	-12	-12	-5.7	-0.6
15-Feb-06	-12	-13	-14	-15	-15	-14	-13	-13	-11	-10	-9	-8	-8	-8	-8	-7	-8	-8	-8	-9	-10	-12	-14	-16	-11.0	-7.5
16-Feb-06	-17	-18	-19	-20	-22	-22	-22	-23	-23	-22	-23	-23	-23	-23	-23	-23	-23	-24	-24	-25	-26	-26	-27	-27	-23.0	-16.7
17-Feb-06	-27	-27	-27	-27	-27	-28	-29	-28	-27	-24	-22	-20	-18	-16	-15	-14	-13	-15	-16	-16	-17	-16	-16	-16	-21.0	-13.4
18-Feb-06	-16	-16	-16	-16	-16	-16	-16	-17	-15	-13	-11	-8	-6	-5	-4	-4	-4	-6	-8	-9	-10	-11	-11	-11	-11.1	-3.8
19-Feb-06	-10	-10	-9	-9	-8	-8	-7	-7	-7	-4	-2	-1	0	2	2	3	3	1	-2	-3	-3	-4	-2	-1	-3.7	2.7
20-Feb-06	-1	P	P	P	-4	-4	-3	-4	-4	-2	-1	0	1	1	1	1	0	0	-1	-2	-2	-1	-2	-3	-1.4	1.0
21-Feb-06	-3	-2	-2	-2	-2	-3	-3	-4	-3	-2	-1	1	2	3	4	4	4	3	1	1	0	-1	-1	-1	-0.3	4.2
22-Feb-06	-2	-2	-3	-3	-4	-5	-6	-5	-5	-6	-5	-4	-4	-4	-4	-5	-5	-6	-7	-7	-8	-8	-8	-8	-5.2	-1.9
23-Feb-06	-9	-10	-10	-10	-11	-11	-12	-11	-9	-6	-4	-4	-4	-4	-4	-4	-4	-4	-5	-5	-6	-7	-7	-7	-6.8	-3.7
24-Feb-06	-8	-9	-9	-10	-10	-10	-11	-10	-10	-10	-9	-9	-8	-7	-6	-7	-7	-8	-10	-10	-11	-10	-10	-11	-9.2	-6.0
25-Feb-06	-13	-15	-15	-15	-15	-14	-14	-15	-14	-14	-13	-12	-10	-9	-8	-8	-10	-12	-13	-14	-15	-16	-16	-15	-13.0	-7.8
26-Feb-06	-14	-13	-12	-11	-11	-10	-10	-10	-9	-7	-6	-4	-3	-1	-2	-2	-3	-3	-4	-4	-5	-5	-6	-6	-6.6	-0.8
27-Feb-06	-6	-6	-6	-6	-7	-7	-7	-7	-6	-4	-2	-2	2	5	8	9	9	8	7	7	6	5	4	3	0.2	9.0
28-Feb-06	3	4	5	4	5	3	-1	-3	-5	-5	-5	-5	-4	-4	-4	-3	-4	-5	-5	-6	-6	-6	-7	-6	-2.6	4.9
																									N	0.0
Hourly Avg	-5.8	-6.2	-6.2	-6.4	-6.6	-6.8	-7.1	-7.1	-6.3	-4.7	-3.5	-2.2	-0.8	0.1	0.3	0.0	-0.6	-1.8	-2.8	-3.6	-4.4	-5.0	-5.3	-5.7		
Hourly Max	3.2	4.2	4.9	4.3	4.6	3.0	4.2	5.9	6.5	7.5	7.5	10.4	13.5	13.8	11.8	10.3	9.6	8.3	6.9	7.0	6.1	5.1	4.3	3.0		

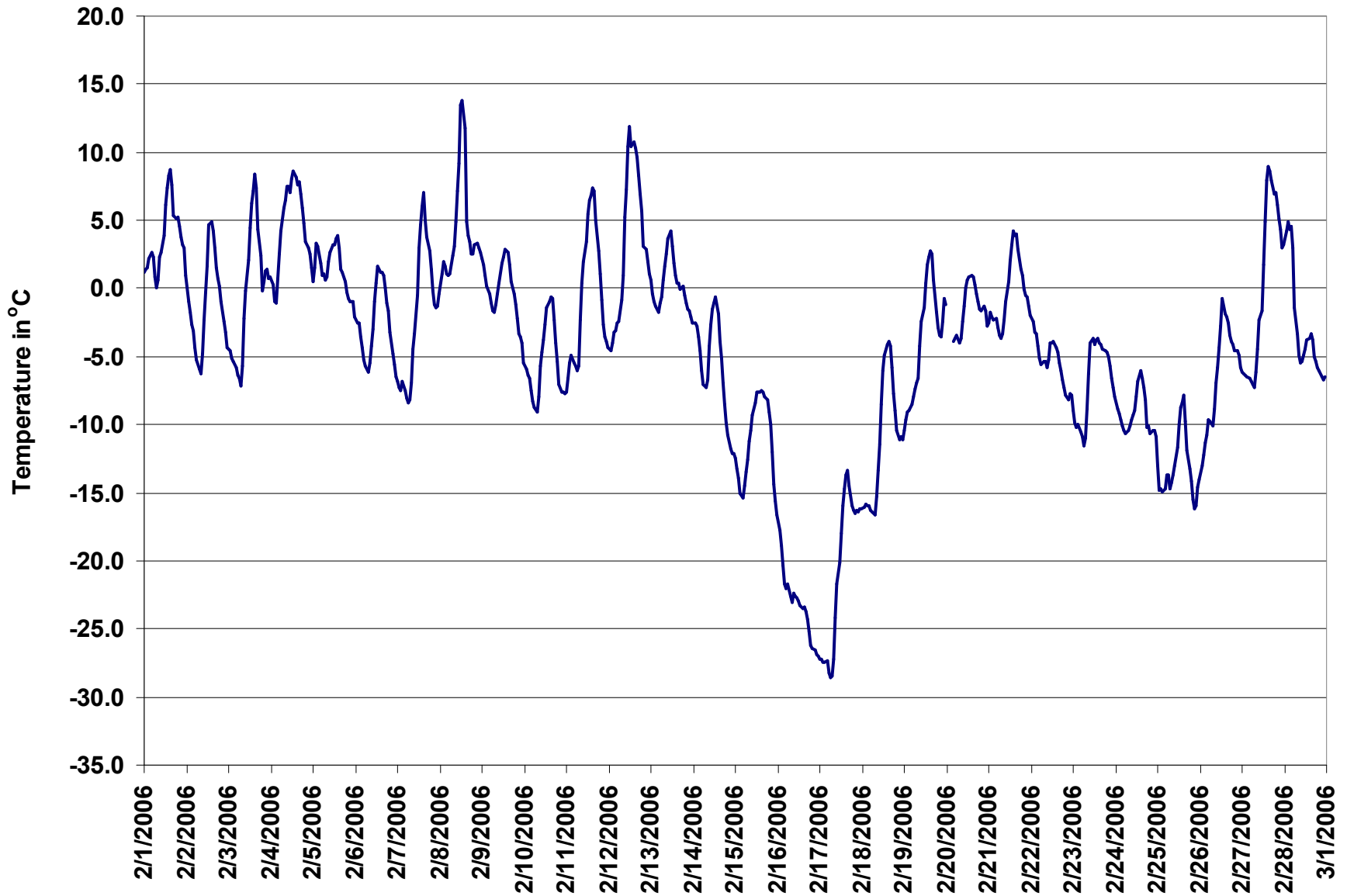


Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend



PAS - Crescent Heights - Solar Radiation Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

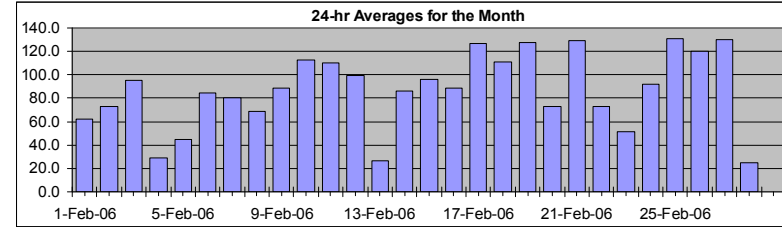
HOURLY AVERAGE TABLE

Solar Radiation (SR)

Monitoring Dates: February 1, 2006 to March 1, 2006

Summary

Maximum 1-hr Average:	542.1	W/m ²	26-Feb	12:00 13:00
Maximum 24-hr Value:	131.0	W/m ²	25-Feb	



AIC Time:	0 hrs	Operational Time:	669 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	495.9	399.8	137.1	0.3	0.1	0.0	0.0	87.0 W/m ²	0.3 W/m ²

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Feb-06	0	0	0	0	0	0	0	1	72	175	132	133	256	279	204	176	53	4	0	0	0	0	0	0	62.0	278.9
2-Feb-06	0	0	0	0	0	0	0	1	30	151	304	281	303	305	231	94	39	3	0	0	0	0	0	0	72.8	305.5
3-Feb-06	0	0	0	0	0	0	0	1	58	202	308	388	406	400	267	180	80	3	0	0	0	0	0	0	95.6	405.8
4-Feb-06	0	0	0	0	0	0	0	0	8	24	39	70	139	193	124	65	32	8	0	0	0	0	0	0	29.4	192.7
5-Feb-06	0	0	0	0	0	0	0	1	28	79	116	220	184	167	197	54	19	3	0	0	0	0	0	0	44.5	219.9
6-Feb-06	0	0	0	0	0	0	0	3	48	153	258	394	408	390	176	131	62	8	0	0	0	0	0	0	84.7	408.2
7-Feb-06	0	0	0	0	0	0	0	2	49	151	154	312	376	379	269	182	51	5	0	0	0	0	0	0	80.5	379.3
8-Feb-06	0	0	0	0	0	0	0	2	43	102	231	357	225	243	303	109	28	3	0	0	0	0	0	0	68.7	357.1
9-Feb-06	0	0	0	0	0	0	0	3	87	110	224	414	431	403	186	158	95	7	0	0	0	0	0	0	88.4	431.5
10-Feb-06	0	0	0	0	0	0	0	5	102	216	366	400	487	458	300	227	137	14	0	0	0	0	0	0	113.0	486.8
11-Feb-06	0	0	0	0	0	0	0	4	97	236	324	426	452	441	283	229	135	14	0	0	0	0	0	0	110.2	452.2
12-Feb-06	0	0	0	0	0	0	0	4	97	236	353	434	458	376	207	133	70	11	0	0	0	0	0	0	99.2	458.3
13-Feb-06	0	0	0	0	0	0	0	3	34	86	137	74	66	64	53	50	52	6	0	0	0	0	0	0	26.1	137.1
14-Feb-06	0	0	0	0	0	0	0	12	128	230	337	349	273	338	152	131	97	10	0	0	0	0	0	0	85.8	349.3
15-Feb-06	0	0	0	0	0	0	0	4	78	163	352	299	494	376	249	187	86	21	0	0	0	0	0	0	96.2	493.7
16-Feb-06	0	0	0	0	0	0	0	5	93	251	267	352	343	280	202	194	113	23	0	0	0	0	0	0	88.5	351.6
17-Feb-06	0	0	0	0	0	0	0	12	132	270	391	475	496	488	296	296	168	18	0	0	0	0	0	0	126.8	496.5
18-Feb-06	0	0	0	0	0	0	0	12	146	283	396	414	376	343	292	244	134	23	0	0	0	0	0	0	110.9	414.0
19-Feb-06	0	0	0	0	0	0	0	6	71	274	397	482	507	496	322	307	170	25	0	0	0	0	0	0	127.4	507.3
20-Feb-06	0	P	P	P	0	0	0	4	51	119	159	234	240	259	234	153	66	15	0	0	0	0	0	0	73.0	258.9
21-Feb-06	0	0	0	0	0	0	0	16	109	283	408	490	519	463	377	227	174	37	0	0	0	0	0	0	129.4	519.5
22-Feb-06	0	0	0	0	0	0	0	3	48	100	186	333	320	233	202	221	91	13	0	0	0	0	0	0	73.1	333.0
23-Feb-06	0	0	0	0	0	0	0	10	59	99	186	242	230	142	114	86	40	14	0	0	0	0	0	0	51.0	241.9
24-Feb-06	0	0	0	0	0	0	0	11	94	157	235	269	370	367	327	210	108	46	1	0	0	0	0	0	91.6	370.1
25-Feb-06	0	0	0	0	0	0	0	14	88	235	374	464	530	521	432	302	146	35	0	0	0	0	1	0	131.0	530.2
26-Feb-06	0	0	0	0	0	0	0	18	105	199	301	393	542	514	292	318	159	31	1	0	0	0	0	0	119.8	542.1
27-Feb-06	0	0	0	0	0	0	0	18	111	320	443	411	409	377	389	378	202	57	1	0	0	0	0	0	130.0	443.2
28-Feb-06	0	0	0	0	0	0	0	9	46	64	63	106	82	103	50	43	16	5	0	0	0	0	0	0	24.6	105.7
																									N	0.0
Hourly Avg	0.1	0.1	0.1	0.1	0.1	0.1	0.1	6.6	75.5	177.4	265.7	329.2	354.4	335.7	240.4	181.7	93.6	16.6	0.3	0.2	0.2	0.2	0.2	0.1		
Hourly Max	0.4	0.4	0.4	0.4	0.4	0.4	0.4	18.2	146.1	319.8	443.2	490.3	542.1	521.1	432.1	377.7	202.1	57.0	1.1	0.4	0.4	0.4	0.6	0.4		

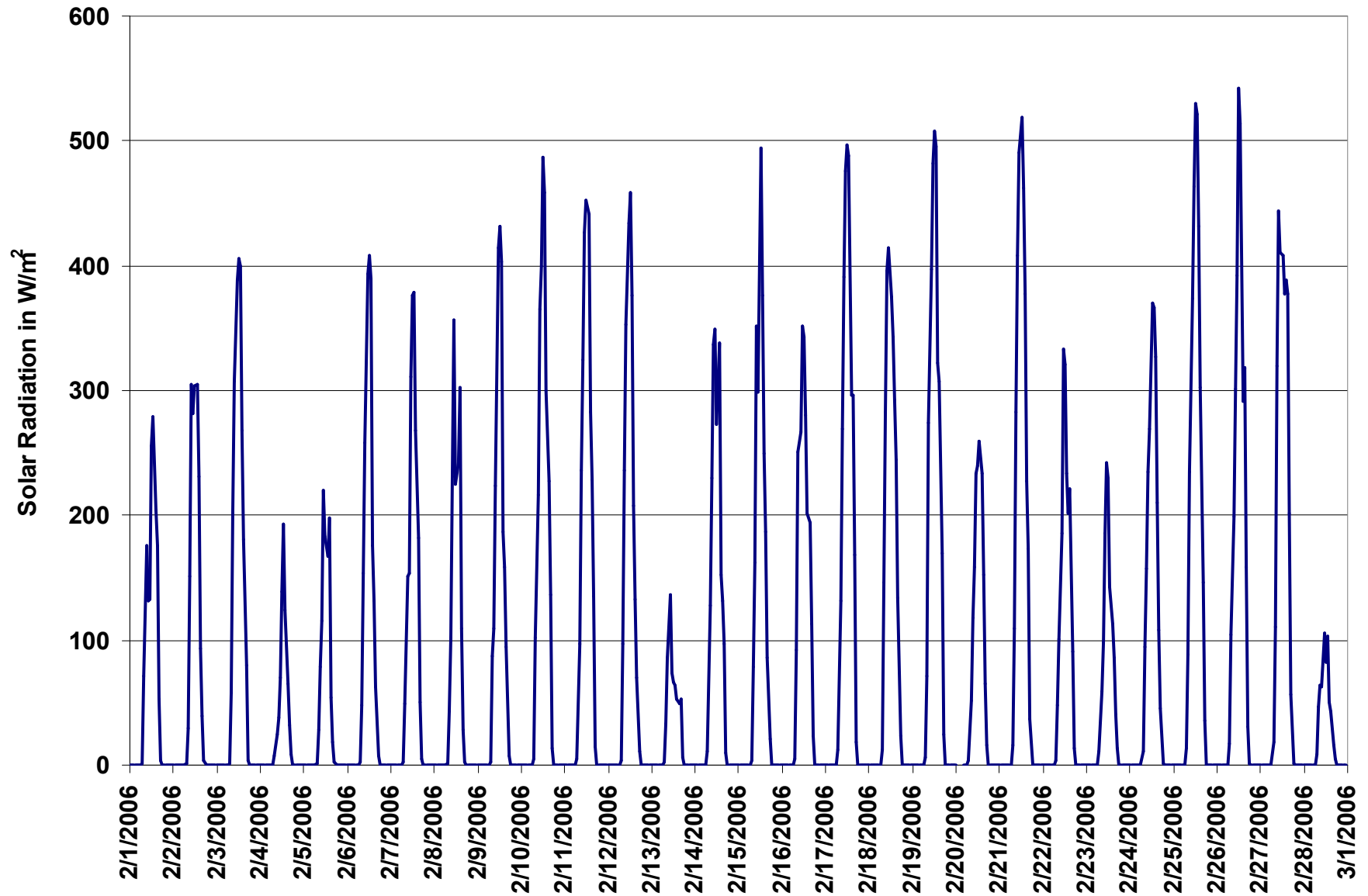


Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend



PAS - Crescent Heights - Scalar Wind Speed Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

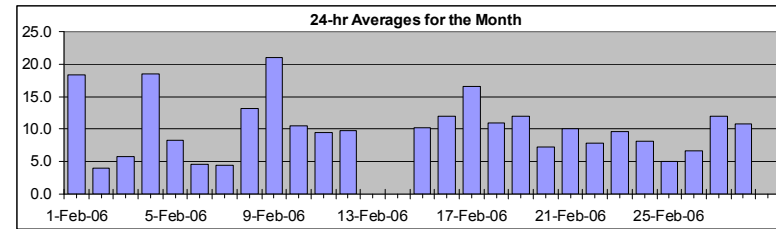
Wind Speed (WSs)

Monitoring Dates: February 1, 2006 to March 1, 2006

Summary

Maximum 1-hr Average:	32.5	km/hr	1-Feb	5:00 6:00
Maximum 24-hr Value:	21.0	km/hr	9-Feb	

Calm Time:	19 hrs	3% calms	Operational Time:	650 hrs					
Calibration Time:	0 hrs		AMD Operational Uptime:	99.6%					
Percentile	99	95	75	50	25	5	1	Average	S
	31.1	23.0	14.1	8.8	5.2	2.4	1.5	10.2	km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Feb-06	19	17	18	17	27	32	31	25	22	21	18	18	20	19	17	11	13	10	9	13	18	15	18	15	18.4	32.5
2-Feb-06	8	3	5	5	3	4	3	2	1	2	2	3	2	3	3	6	4	5	3	7	7	6	3	4	4.0	8.3
3-Feb-06	3	2	3	3	2	2	3	calm	1	5	7	7	10	9	10	10	6	3	4	4	8	14	11	6	5.8	14.2
4-Feb-06	12	7	2	2	8	13	15	19	22	20	32	31	30	30	25	23	20	21	21	21	19	19	20	14	18.5	32.2
5-Feb-06	4	5	13	15	11	6	8	5	4	6	5	7	7	7	8	12	10	12	18	11	5	6	7	8	8.2	18.4
6-Feb-06	5	8	7	7	7	5	4	3	4	5	5	4	5	6	5	4	2	3	6	6	3	3	2	2	4.6	8.0
7-Feb-06	4	3	3	6	4	3	3	1	2	3	4	5	4	5	4	3	5	7	10	9	6	5	4	5	4.5	10.5
8-Feb-06	3	6	6	7	6	12	14	14	18	23	22	18	15	20	23	28	11	7	6	10	9	10	15	15	13.2	27.7
9-Feb-06	15	17	16	15	18	17	16	19	20	22	27	31	32	30	32	31	27	24	21	18	16	11	14	12	21.0	32.2
10-Feb-06	9	10	10	11	11	14	13	12	12	9	14	14	12	11	12	11	10	6	3	6	6	11	16	9	10.5	15.6
11-Feb-06	15	14	15	19	18	18	10	4	4	6	11	10	11	13	13	10	8	3	3	3	4	4	5	4	9.5	19.4
12-Feb-06	6	6	9	9	12	12	9	17	13	16	24	16	14	12	8	7	6	5	6	6	9	6	5	5	9.8	23.8
13-Feb-06	6	8	11	12	10	14	12	15	12	7	7	6	12	5	5	5	3	calm	calm	calm	calm	calm	calm	calm	N	15.0
14-Feb-06	calm	calm	calm	calm	calm	calm	calm	calm	calm	calm	calm	8	14	17	20	19	15	11	7	3	6	4	2	4	N	19.6
15-Feb-06	5	7	5	5	3	2	7	6	5	8	12	11	14	15	13	12	11	9	7	11	20	24	19	15	10.2	24.1
16-Feb-06	14	13	15	12	9	8	9	17	20	21	18	16	16	14	14	15	14	12	10	7	3	3	3	4	11.9	20.9
17-Feb-06	5	7	6	7	7	11	12	11	14	14	17	20	22	22	24	26	23	21	23	21	21	20	21	22	16.6	25.7
18-Feb-06	15	14	26	23	14	13	12	12	12	16	15	12	8	9	9	8	8	6	5	7	5	1	4	7	10.9	26.0
19-Feb-06	6	6	6	7	10	9	11	7	12	16	21	24	23	19	19	18	16	9	9	9	6	10	6	8	12.0	24.5
20-Feb-06	9	P	P	P	7	5	5	4	5	7	5	4	6	6	8	9	9	8	7	9	9	10	9	9	7.2	9.5
21-Feb-06	10	11	10	11	8	9	10	9	11	14	14	15	18	17	15	12	10	6	5	6	4	4	8	5	10.0	17.6
22-Feb-06	3	4	7	4	7	6	6	2	18	18	13	13	12	10	12	12	11	6	3	4	4	3	2	6	7.8	18.5
23-Feb-06	5	4	3	3	2	5	5	2	3	5	8	10	15	12	12	14	13	15	14	17	17	16	15	19	9.6	18.5
24-Feb-06	18	17	14	12	9	7	6	9	11	9	11	11	10	9	8	9	7	6	3	1	2	2	1	2	8.1	18.2
25-Feb-06	3	4	3	3	2	3	7	7	8	11	11	9	8	6	5	3	5	4	2	2	3	4	2	6	5.0	11.0
26-Feb-06	6	9	7	11	10	12	11	3	1	1	4	6	7	5	5	11	9	6	4	7	5	2	6	10	6.7	11.7
27-Feb-06	8	4	1	3	3	3	4	3	2	5	5	6	4	10	27	23	26	27	26	26	28	22	14	8	12.0	28.0
28-Feb-06	4	7	13	12	8	10	19	14	16	18	14	15	9	9	8	10	12	13	10	7	8	10	8	7	10.9	18.6
																									N	0.0
1-hr Average	8.2	8.2	8.9	9.2	8.7	9.4	9.7	9.3	10.1	11.4	12.8	12.6	12.8	12.5	13.0	12.8	11.2	9.9	9.1	9.3	9.2	9.2	9.0	8.5		
Hourly Max	18.6	17.4	26.0	23.3	26.9	32.5	31.2	24.5	22.1	23.0	32.2	31.3	31.8	30.5	32.2	30.9	27.3	27.3	26.2	25.9	28.0	24.1	21.2	22.0		



PAS - Crescent Heights - Vector Wind Speed Monthly Summary

Station: Crescent Heights
Station Owner: PAS

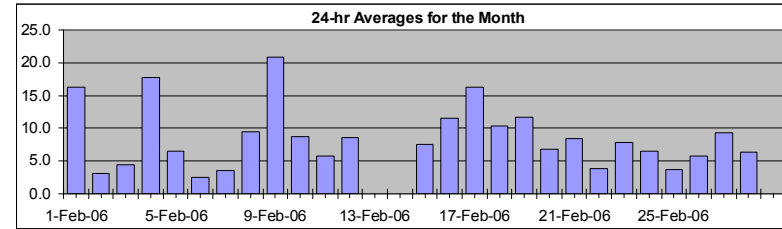
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: February 1, 2006 to March 1, 2006

Summary

Maximum 1-hr Average:	32.4	km/hr	1-Feb	5:00 6:00
Maximum 24-hr Value:	20.8	km/hr	9-Feb	



Calm Time:	23 hrs	3% calms	Operational Time:	646 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.6%				
Percentile	99	95	75	50	25	5	1	AverageV
	30.8	22.9	13.9	8.7	4.9	2.0	1.3	18.1 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max
	Hour Start	Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
1-Feb-06	18	17	18	16	27	32	31	24	22	20	18	17	20	19	16	11	13	10	9	13	18	15	18	15	16.2	32.4
2-Feb-06	8	3	4	4	3	4	3	2	calm	2	1	2	2	1	3	6	4	5	3	6	7	6	3	4	3.0	7.6
3-Feb-06	3	2	3	2	2	calm	2	calm	1	5	7	7	9	9	10	10	6	2	4	4	8	14	11	6	4.5	14.2
4-Feb-06	12	7	calm	2	8	12	14	19	21	19	32	31	30	30	24	23	20	21	21	20	19	19	20	14	17.7	31.9
5-Feb-06	3	5	13	15	10	5	8	5	4	5	5	6	6	6	8	11	9	11	18	10	5	6	7	8	6.5	18.2
6-Feb-06	5	8	7	7	7	4	4	3	4	5	5	3	5	5	5	4	2	3	6	6	2	3	2	2	2.5	8.0
7-Feb-06	3	3	2	5	3	3	3	1	1	3	3	4	4	5	4	3	5	7	10	9	6	5	4	4	3.5	10.4
8-Feb-06	2	6	6	7	6	12	13	14	17	23	21	18	14	20	16	28	11	7	6	10	8	10	15	14	9.4	27.6
9-Feb-06	15	17	16	15	18	17	16	18	20	22	26	31	32	30	32	31	27	24	21	18	16	11	14	12	20.8	32.0
10-Feb-06	9	9	10	11	11	14	13	12	12	8	14	14	12	10	11	10	9	5	3	6	6	11	15	9	8.8	15.5
11-Feb-06	15	14	15	19	18	18	10	2	4	6	10	10	11	13	13	10	8	2	3	3	3	4	4	4	5.8	19.3
12-Feb-06	5	6	9	9	12	12	9	17	13	15	24	16	13	12	8	7	6	5	6	6	8	3	4	5	8.6	23.6
13-Feb-06	6	8	11	12	9	14	12	15	12	7	6	6	12	5	5	2	3	calm	calm	calm	calm	calm	calm	calm	N	14.9
14-Feb-06	calm	calm	calm	calm	calm	calm	calm	calm	calm	calm	calm	8	14	17	19	19	15	11	7	3	6	4	2	4	N	19.4
15-Feb-06	5	7	4	5	2	1	7	6	5	7	12	10	14	14	13	12	11	9	6	10	19	24	19	15	7.5	24.0
16-Feb-06	14	13	14	12	9	8	9	17	20	21	17	15	15	13	14	15	14	12	10	7	3	3	3	3	11.5	20.7
17-Feb-06	5	7	5	7	7	11	12	11	14	14	17	20	22	22	24	26	23	21	22	21	20	20	21	22	16.3	25.5
18-Feb-06	15	14	26	23	14	12	12	12	12	16	15	12	8	8	9	7	7	6	5	7	5	1	4	7	10.3	25.9
19-Feb-06	6	6	6	7	10	9	11	7	12	15	21	24	22	19	19	18	16	9	9	9	6	10	6	8	11.7	24.3
20-Feb-06	9	P	P	P	7	5	5	4	5	7	5	3	4	6	8	9	9	8	7	9	8	9	9	9	6.9	9.3
21-Feb-06	10	11	10	10	8	9	10	9	11	14	14	15	17	16	14	11	10	6	5	6	4	4	7	5	8.4	17.2
22-Feb-06	2	4	7	4	7	6	5	1	18	18	12	13	12	10	12	12	11	6	2	4	3	3	2	5	3.8	18.2
23-Feb-06	5	4	2	1	2	4	4	2	3	4	7	10	14	12	12	13	12	14	14	17	17	16	15	18	7.8	18.4
24-Feb-06	18	17	14	11	9	7	6	9	10	8	10	11	9	9	8	9	7	6	3	1	1	2	1	1	6.6	18.1
25-Feb-06	2	4	2	2	2	3	6	7	8	11	11	9	7	6	5	3	5	4	2	2	3	4	2	6	3.7	10.9
26-Feb-06	5	8	7	11	10	11	11	2	1	calm	4	6	7	5	5	10	9	6	4	7	5	2	6	10	5.7	11.4
27-Feb-06	8	3	1	3	3	1	4	3	2	4	5	6	3	10	27	23	25	27	26	26	28	22	13	7	9.3	27.9
28-Feb-06	4	7	13	10	7	9	19	14	16	18	13	15	9	8	7	8	12	13	9	6	7	10	8	6	6.3	18.6
																									N	0.0
1-hr Vector	4.1	4.5	5.0	5.0	4.8	5.3	5.3	5.2	4.2	4.7	4.9	3.6	4.6	5.7	5.6	4.1	4.3	3.3	2.4	2.9	3.7	3.7	4.3	4.4		
Hourly Max	18.5	17.1	25.9	23.1	26.7	32.4	30.9	24.4	21.9	22.9	31.9	31.2	31.6	30.3	32.0	30.8	27.2	27.2	26.1	25.8	27.9	24.0	21.1	21.9		



PAS - Crescent Heights - Wind Direction Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: February 1, 2006 to March 1, 2006

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	669 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.6%				
Percentile	99	95	75	50	25	5	1	Average
	356.9	342.6	279.5	233.2	135.1	25.1	7.4	267 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Feb-06	205	212	213	199	208	215	225	233	233	228	228	243	262	269	271	266	276	278	268	267	280	285	280	283	242	WSW
2-Feb-06	335	342	344	356	275	344	357	26	173	71	105	118	71	49	48	46	52	17	78	28	28	22	36	343	20	NNE
3-Feb-06	348	351	357	224	324	266	341	299	210	238	239	237	227	243	239	240	235	208	121	134	217	229	233	260	237	WSW
4-Feb-06	214	214	306	168	171	197	190	184	174	189	195	195	202	210	215	216	224	219	217	224	220	223	234	231	207	SSW
5-Feb-06	219	243	263	282	303	299	273	253	253	267	291	346	353	328	359	324	313	333	358	345	281	240	263	287	303	WNW
6-Feb-06	279	260	289	287	287	290	250	251	250	245	240	221	215	217	230	219	214	24	45	49	133	129	118	139	253	WSW
7-Feb-06	135	142	173	218	145	134	130	142	59	120	88	79	187	206	196	125	76	91	105	114	122	138	139	147	130	SE
8-Feb-06	241	245	217	212	239	237	237	242	237	225	233	227	270	275	322	9	354	328	236	254	267	269	280	303	265	W
9-Feb-06	316	316	316	311	320	317	316	318	323	324	324	329	325	329	335	333	335	327	324	323	320	313	321	321	324	NW
10-Feb-06	309	304	307	308	303	312	315	318	319	318	342	338	332	319	312	310	282	267	247	233	238	235	236	245	301	WNW
11-Feb-06	237	238	235	233	235	238	238	225	258	297	337	327	316	320	324	324	326	21	104	132	151	155	173	183	264	W
12-Feb-06	192	196	223	230	233	234	229	224	238	245	232	248	277	313	309	287	270	248	233	234	236	192	181	215	241	WSW
13-Feb-06	235	240	236	237	238	233	233	223	227	239	266	350	14	343	318	61	169	24	198	161	100	61	41	57	N	-
14-Feb-06	60	147	137	124	122	125	133	120	119	111	8	315	331	328	346	8	16	16	25	15	339	334	297	260	N	-
15-Feb-06	285	277	312	319	323	201	217	239	260	259	237	296	306	304	302	307	299	299	303	337	360	15	13	356	316	NW
16-Feb-06	350	342	17	9	8	353	329	332	342	354	21	24	9	4	8	357	357	359	0	358	348	334	320	318	358	N
17-Feb-06	250	273	261	260	245	227	232	242	238	239	227	227	226	234	233	233	232	224	217	222	225	219	227	233	231	SW
18-Feb-06	250	257	233	235	255	252	252	246	241	232	225	231	282	281	297	299	268	247	248	243	242	227	244	252	248	WSW
19-Feb-06	246	242	228	224	225	228	237	245	222	219	221	222	224	228	235	229	228	253	240	237	228	236	256	280	231	SW
20-Feb-06	259	P	P	P	269	262	267	232	238	248	281	245	287	290	284	275	269	259	268	268	259	296	293	274	269	W
21-Feb-06	275	285	293	291	270	252	246	245	237	224	220	217	228	243	249	277	274	258	265	260	318	316	347	13	257	WSW
22-Feb-06	293	234	245	242	226	221	220	66	78	88	95	99	97	84	61	66	52	42	69	68	155	233	211	219	94	E
23-Feb-06	231	226	226	344	60	15	48	84	103	84	107	80	85	97	83	79	78	55	35	42	45	46	38	32	60	ENE
24-Feb-06	32	31	27	37	44	63	85	77	76	77	73	89	96	105	111	111	103	102	116	101	313	257	252	169	69	ENE
25-Feb-06	241	238	239	217	209	243	256	271	247	228	217	218	228	236	234	226	206	211	225	132	120	127	101	55	224	SW
26-Feb-06	44	83	102	76	78	89	100	336	16	171	56	49	39	75	55	44	53	61	35	38	47	65	7	357	59	ENE
27-Feb-06	19	344	2	348	341	234	188	186	122	79	95	107	146	209	210	211	210	208	208	211	214	217	222	225	209	SSW
28-Feb-06	263	251	231	254	298	337	1	4	3	18	31	52	60	83	109	103	318	348	347	335	316	337	341	320	354	N
Hourly Avg	273	269	262	263	259	251	250	255	252	247	240	253	278	277	287	305	288	291	274	268	264	260	273	286	N	-



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

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: February 1, 2006 to March 1, 2006

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	669 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	99.6%			
Percentile	99	95	75	50	25	5	1
	49.1	29.6	14.1	9.1	6.4	4.7	3.7

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

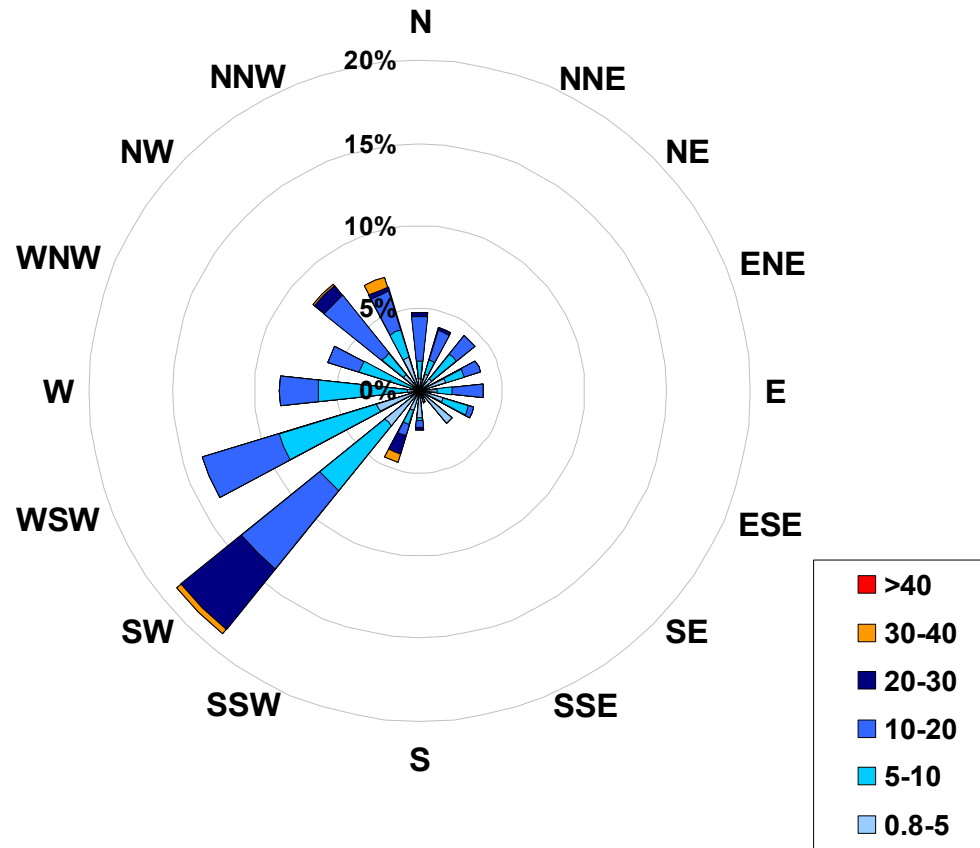
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-Feb-06	6	6	6	5	5	4	5	6	6	6	6	7	5	6	6	7	6	8	6	6	5	6	5	6
2-Feb-06	11	22	18	24	27	10	8	25	62	34	29	24	23	66	42	5	10	10	21	13	27	14	26	9
3-Feb-06	17	20	15	21	45	61	46	46	46	10	11	12	15	13	11	11	7	20	6	10	9	5	10	21
4-Feb-06	6	41	47	45	8	12	11	9	8	9	7	5	6	6	7	5	4	5	4	4	7	6	3	6
5-Feb-06	56	20	6	6	10	14	11	7	17	10	14	17	16	12	11	9	9	11	6	9	11	8	10	8
6-Feb-06	11	6	11	8	10	16	14	9	15	13	19	33	26	26	19	17	28	8	6	3	19	8	5	8
7-Feb-06	9	16	14	8	17	17	12	22	52	15	14	18	22	20	33	36	12	8	10	8	10	8	10	13
8-Feb-06	31	17	19	15	14	7	6	9	5	5	4	5	11	7	18	5	9	12	12	6	6	6	5	7
9-Feb-06	7	6	5	6	5	5	5	5	5	5	5	5	5	6	5	5	5	4	5	6	4	7	6	8
10-Feb-06	7	8	8	7	7	5	7	5	6	12	10	9	14	18	19	15	12	9	14	8	10	7	5	13
11-Feb-06	6	7	8	5	4	5	20	25	25	19	12	14	14	13	12	11	9	19	14	8	13	12	16	11
12-Feb-06	13	6	5	5	5	5	10	7	8	10	5	7	10	11	13	10	8	8	10	8	8	46	24	17
13-Feb-06	8	5	4	7	11	5	5	7	6	11	18	17	10	15	15	17	12	27	18	23	20	10	10	7
14-Feb-06	7	42	7	7	8	9	5	9	11	21	12	10	9	7	5	5	6	5	8	12	8	10	13	10
15-Feb-06	9	8	28	12	23	37	7	7	11	12	12	14	11	13	10	11	10	9	12	8	7	5	5	4
16-Feb-06	4	4	11	4	5	6	10	5	5	6	8	10	11	11	9	9	9	8	6	7	14	11	12	23
17-Feb-06	8	7	8	6	6	5	5	11	6	7	7	8	7	7	6	6	5	5	4	5	11	5	5	5
18-Feb-06	7	8	4	6	7	9	9	8	9	5	8	8	15	17	15	20	12	9	6	5	15	36	8	5
19-Feb-06	6	5	4	5	5	6	10	12	5	6	7	6	7	8	7	8	8	7	5	4	3	5	15	8
20-Feb-06	23	P	P	P	6	10	11	10	8	14	13	33	25	16	17	11	8	7	7	8	17	9	8	7
21-Feb-06	9	9	10	11	12	14	8	9	17	6	9	9	9	10	13	8	8	9	8	14	27	19	12	13
22-Feb-06	26	10	8	26	8	6	14	46	8	8	10	10	12	14	8	8	10	11	21	17	14	30	40	17
23-Feb-06	10	8	24	68	27	32	15	26	14	14	12	8	8	8	8	7	6	6	5	5	5	8	7	4
24-Feb-06	5	6	6	10	11	8	8	7	6	8	9	10	9	10	7	9	8	7	9	20	29	20	21	21
25-Feb-06	15	8	22	15	12	12	10	10	10	7	6	10	13	16	25	34	12	7	7	14	7	7	20	9
26-Feb-06	10	8	12	7	7	7	6	18	59	34	17	15	14	21	10	11	9	6	9	5	6	18	12	6
27-Feb-06	12	27	22	12	16	25	20	28	31	15	19	16	41	19	4	5	6	4	3	4	3	4	11	15
28-Feb-06	22	13	9	21	20	13	4	6	5	6	9	5	12	18	23	48	11	7	13	17	25	10	9	12

Daily Maximum
8.0
65.8
60.6
47.3
56.4
33.2
51.5
31.3
7.8
18.7
25.3
46.0
26.5
41.9
37.2
23.2
11.3
36.1
14.6
33.0
27.1
46.4
68.4
29.0
33.9
59.0
40.7
48.0
0.0

Hourly Max	56	42	47	68	45	61	46	46	62	34	29	33	41	66	42	48	28	27	21	23	29	46	40	23
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1-hr Average Wind Rose (in km/hr) Located at the Crescent Heights Site for February 2006



Calms: 3%

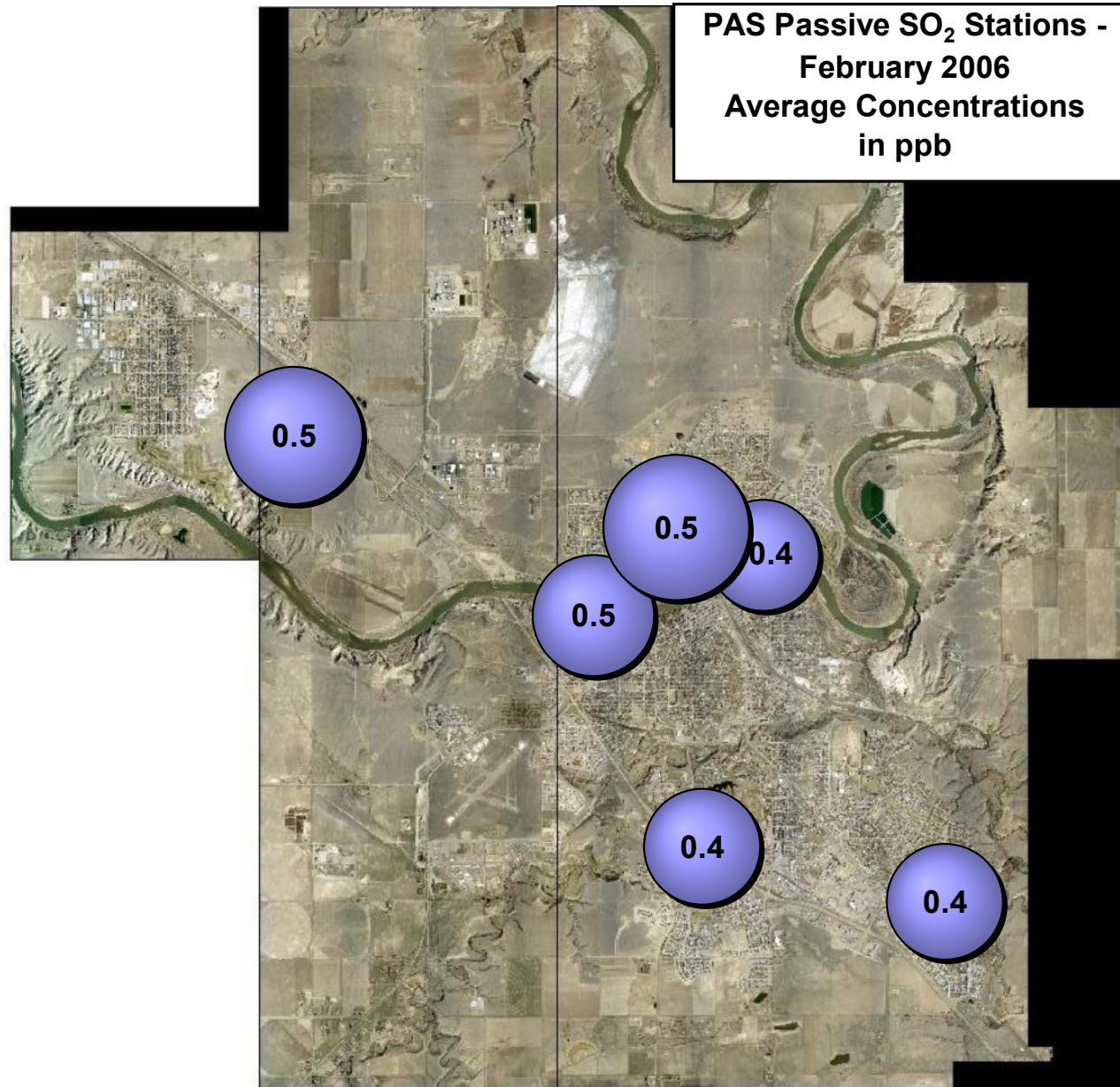
Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	154
5	to	10	216
10	to	20	219
20	to	30	51
30	to	40	10
	>	40	0
Total Non-Zero Values			650

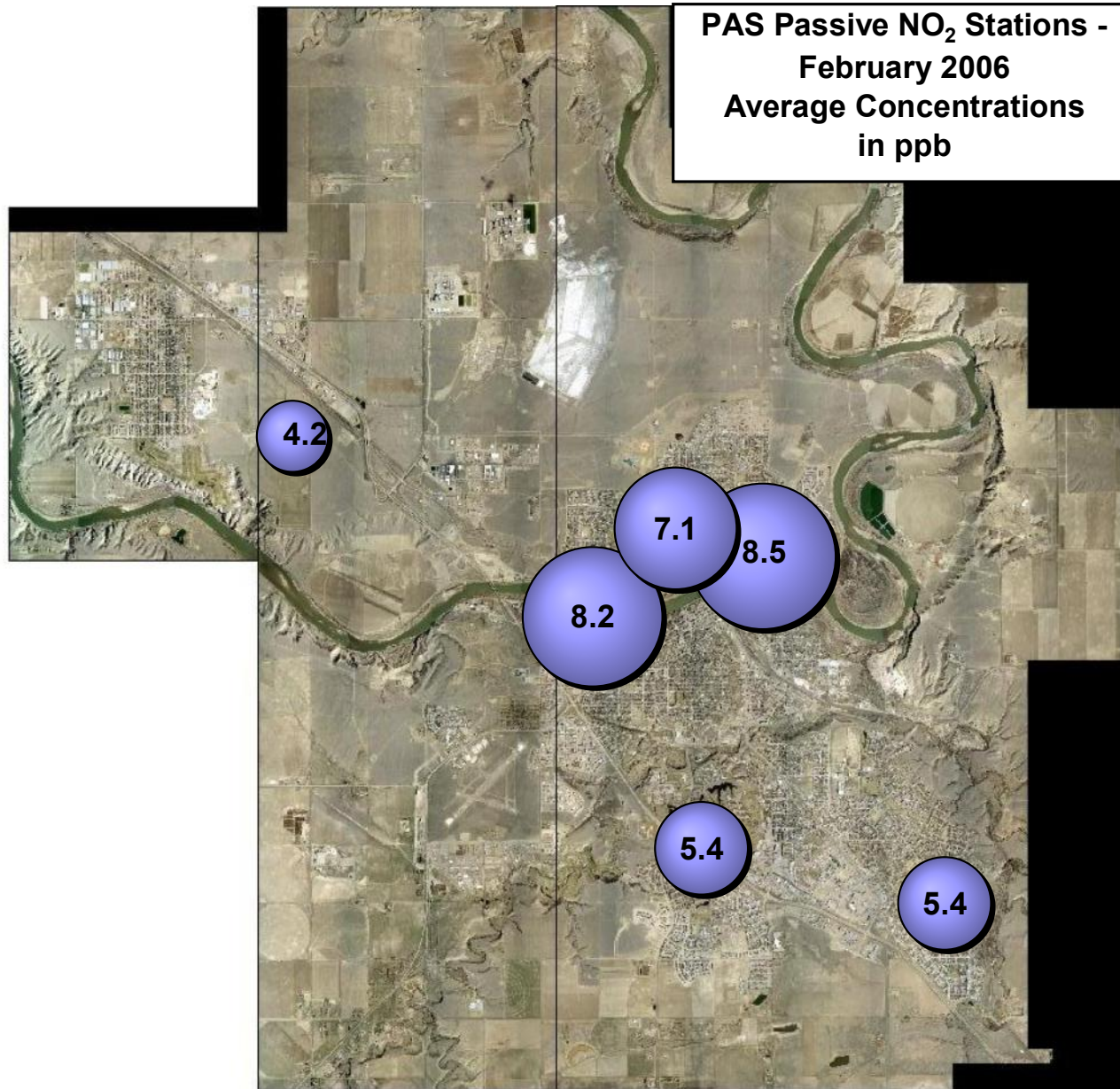


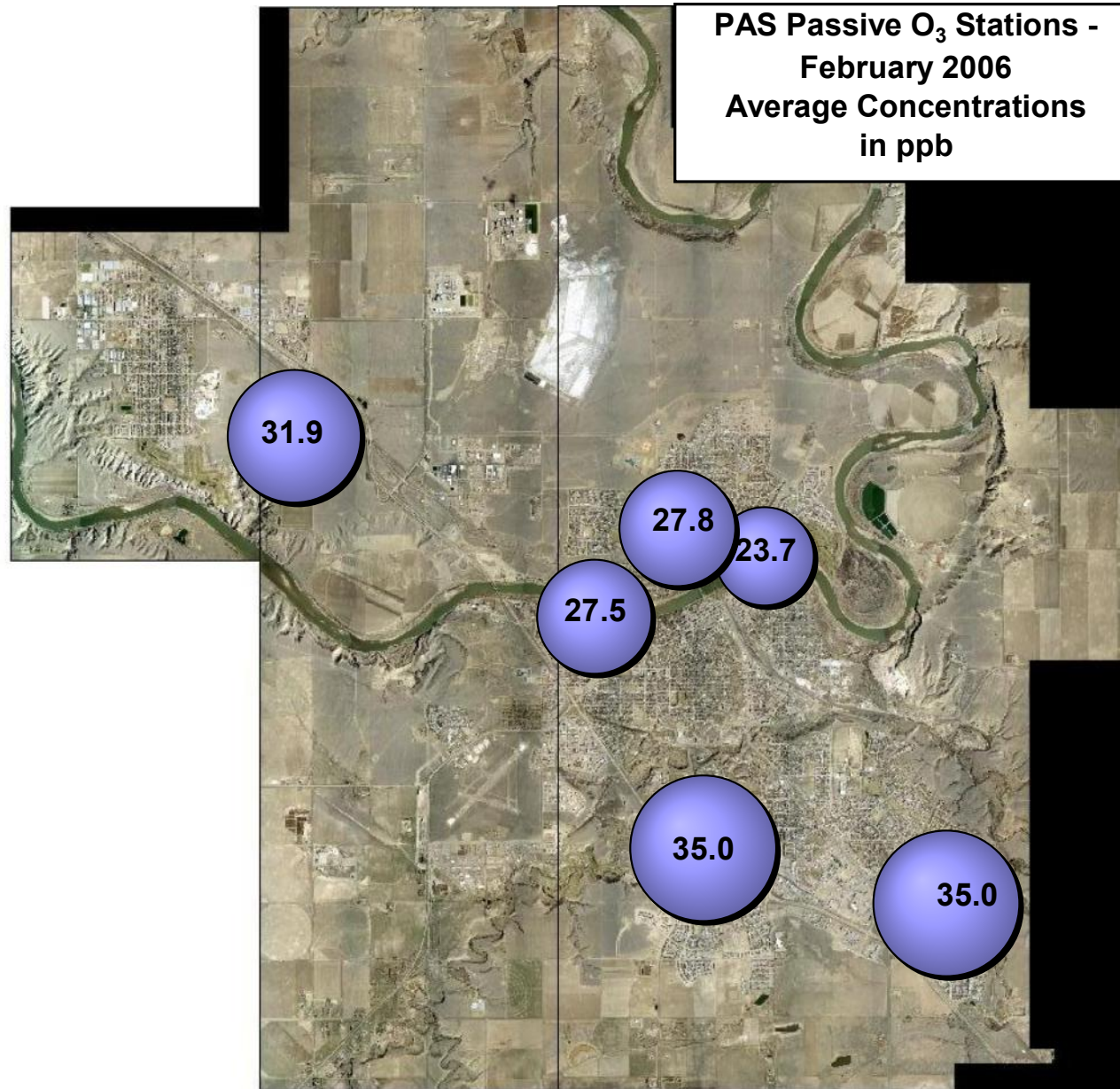
Passive Monitoring – February 2006

Ambient Air Compliance Network

Station Number	Station	SO ₂ ppb	O ₃ ppb	NO ₂ ppb	Location		
	Name				Easting	Northing	Elevation
Duplicates							
5a	Southridge	0.5	32.1	5.4			
5b		0.4	38.0	5.5			
1	Hospital	0.5	27.5	8.2	521648	5542721	698
2	Ball Park	0.4	23.7	8.5	524019	5543686	660
3	Monitoring Station	0.5	27.8	7.1	522812	5544133	714
4	Redcliff	0.5	31.9	4.2	517448	5545608	725
5	Southridge	0.4	35.0	5.4	523172	5539016	721
6	Christian School Park	0.4	35.0	5.4	526577	5538133	709
Stats:							
	Mean	0.5	30.2	6.5			
	Standard Deviation	0.1	4.6	1.7			
	Minimum	0.4			2		Ball Park
	Maximum	0.5			3		Monitoring Station
	Minimum		23.7		2		Ball Park
	Maximum		35.0		5		Southridge
	Minimum			4.2	4		Redcliff
	Maximum			8.5	2		Ball Park







February 2006 - Calibration Reports

PAS - Crescent Heights Station:

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

Calibration Report

Parameter 03
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	February 27, 2006	Previous Calibration	January 9, 2006
Station Number	101	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="text"/>
Start Time (MST)	16:00	End Time (MST)	19:10
Barometric Pressure	27.0 inches Hg	Station Temperature	19.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	2977
Cal Gas Concentrator	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 1 volt	DACS channel #	5
	<u>Before</u>		<u>After</u>
Calculated slope	0.983304	Calculated slope	0.996288
Calculated intercept	5.082159	Calculated intercept	0.222153
Analyzer make	API Model 400E	Analyzer serial #	331

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Offset	-6.9	ppb	-11.7	ppb
Slope	1.086		1.122	
Lamp measure	3888.3	mV	3795.0	mV
Lamp Reference	3888.4	mV	3802.0	mV
Pressure	25.3	inches Hg	25.1	inches Hg
Sample Flow	715	ccm	711	ccm
Lamp temp	58	Deg C	48	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)
4995	0.0	0.0	-0.6	N/A
4995	300.0	271.2	272.2	0.9963
4995	200.0	183.8	183.4	1.0020
4995	100.0	90.8	92.0	0.9874
4995	0.0	0.0	-4.7	0.0000
4995	300.0	271.2	255.8	1.0603
Average Correction Factor				0.9953

Calculated value of As Found Response: 261.2 ppm Percent Change of As Found: -3.7%

	before calibration		after calibration	
Auto zero	0.8	ppb	-0.3	ppb
Auto span	346.4	ppb	345.8	ppb

Notes: A span adjustment was made. Calculated O3 conc derived from NOX GPT calibration.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter
 Air Monitoring Network
Palliser Airshed

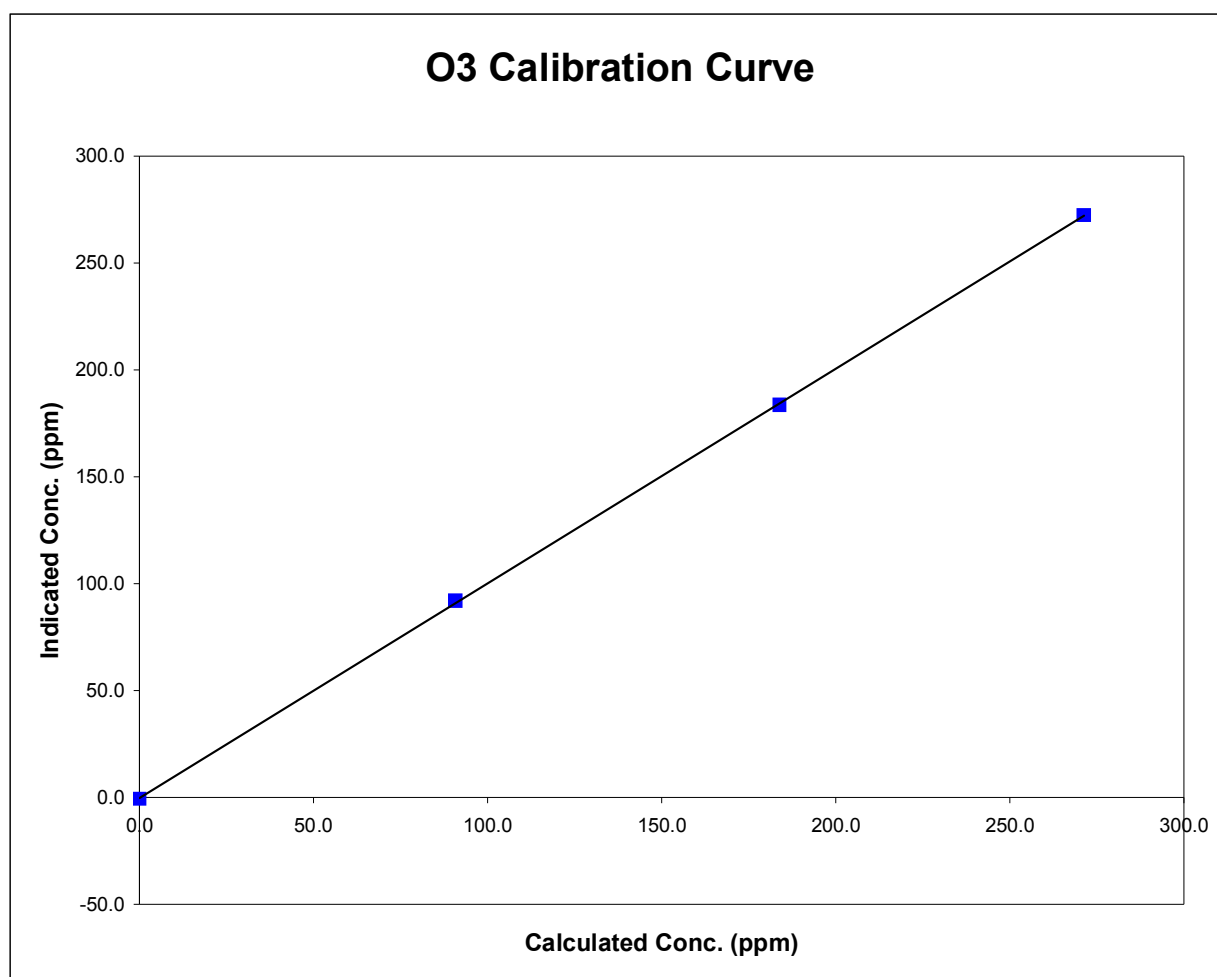


Station Information

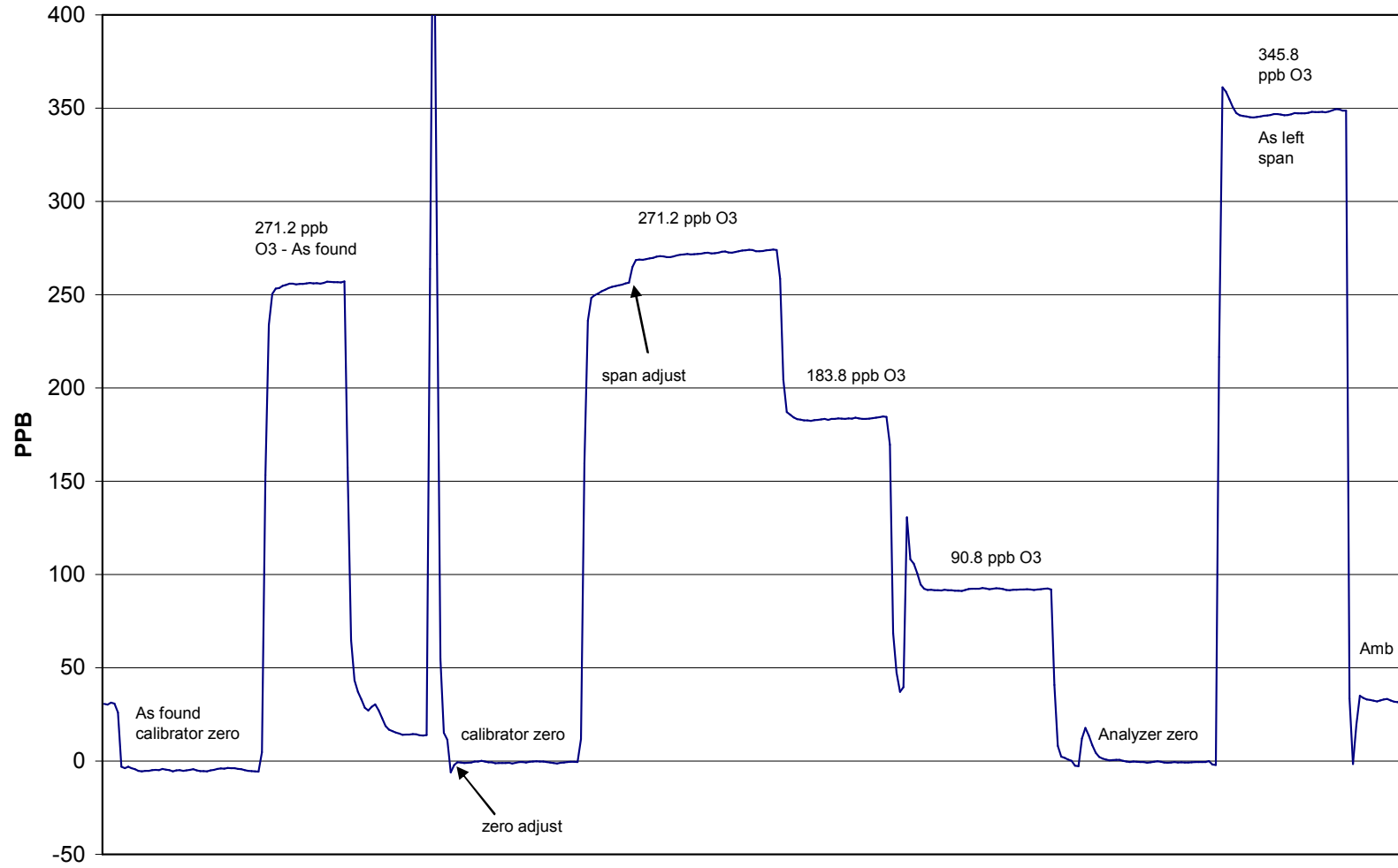
Calibration Date	February 27, 2006	Previous Calibration	January 9, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	16:00	End Time (MST)	19:10
Analyzer make/model	API Model 400E	Analyzer serial #	331

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
271.2	272.2	0.9963		
183.8	183.4	1.0020	Correlation Coefficient	0.999952
90.8	92.0	0.9874		
0.0	-0.6	N/A	Slope	0.996288
			Intercept	0.222153



O3 Calibration



February 27, 2006

Calibration Report

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



Station Information

Calibration Date February 27, 2006 Previous Calibration January 9, 2006
 Station Number 101 Station Location Crescent Heights

Reason: Routine Installation Removal Other: _____

Start Time (MST) 10:35 End Time (MST) 16:50
 Barometric Pressure 27.0 inches Hg Station Temperature 19.0 Deg C
 Calibrator EnviroNics 6103 Serial Number 2977
 NO Cal Gas Conc 49.8 ppm Cal Gas Expiry Date 12-Dec-05
 NOx Cal Gas Conc 49.8 ppm Cal Gas Serial # ALM011558

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45270

Parameter		NO2	NOx	NO
Before	Data Slope	0.992999	0.995544	0.995970
	Data Offset	0.155645	0.134307	2.272189
After	Data Slope	1.004704	1.003411	1.002074
	Data Offset	-1.093781	-0.489680	0.613547
Channel #		8	6	7
Voltage Range		0 - 1 VDC	0 - 1 VDC	0 - 1 VDC

Analyzer Information

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

Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO background	-1.2	mV	-1.2	mV
NOx background	1.1	mV	1.1	mV
NO coefficient	1.424		1.482	
NOx coefficient	1.435		1.470	
Chamber Temp	50.0	Deg C	49.9	Deg C
Cooler Temp	7.1	Deg C	7.0	Deg C
Azero	38.7		36.6	
Perm Temp	40.0	Deg C	40.2	Deg C
Pressure	4.1	inches Hg	4.1	inches Hg
Sample Flow	435.0	ccm	440.0	ccm

Notes: Span adjusted analyzer. Noted after as found a calibrator vent was improperly plugged; response was more stable after unplugging vent.

Calibration Report

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



Station Information

Calibration Date: February 27, 2006 Station Location: Crescent Heights

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	
zero	4985	0.00	0.0	0.0	0.0	1.4	-0.2	1.1	N/A	N/A	
1	4985	39.94	395.8	395.8	0.0	395.2	394.5	1.0	1.0015	1.0035	
2	4985	19.95	198.5	198.5	0.0	198.4	197.7	0.7	1.0003	1.0040	
3	4985	9.95	99.2	99.2	0.0	98.0	97.6	0.0	1.0118	1.0159	
AFZ	4985	0.00	0.0	0.0	0.0	1.4	-0.2	1.1	0.0000	0.0000	
AFS	4985	39.94	395.8	395.8	0.0	382.1	376.2	5.9	1.0359	1.0522	
									Average Correction Factor	1.0045	1.0078

As Found Concentrations NO_x= 380.8 NO= 378.6 As Found Percent Change NO_x= -3.8% NO= -4.3%

GPT Calibration Data

Dilution Flow 4985 ccm Source Gas Flow 39.80 ccm

O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency	
0	400.6	397.4	3.2	399.8	396.0	1.1	N/A	N/A	N/A	N/A	
300	391.0	119.8	271.2	390.2	118.9	271.0	1.0022	1.0072	1.0008	99.9%	
200	391.9	208.1	183.8	391.1	207.1	184.1	1.0022	1.0050	0.9986	100.1%	
100	391.9	301.2	90.8	391.1	299.9	91.5	1.0022	1.0041	0.9924	100.8%	
							Average Correction Factor	1.0022	1.0055	0.9973	100.3%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	2.3	1.7	2.8	ppb	-0.3	-1.4	0.8	ppb
Auto span	428.6	421.4	8.2	ppb	433.7	427.1	7.0	ppb

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter NO₂
 Air Monitoring Network Palliser Airshed

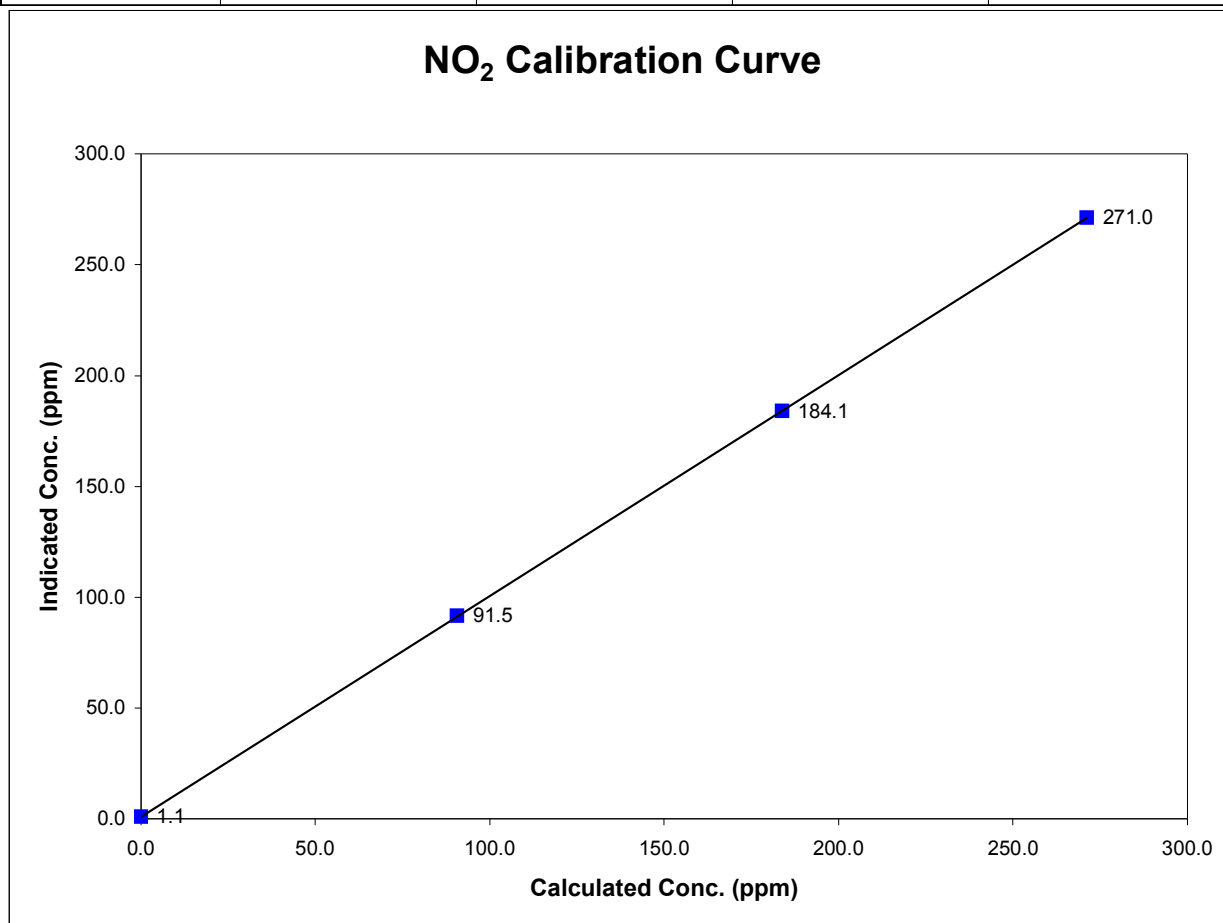


Station Information

Calibration Date	February 27, 2006	Previous Calibration	January 9, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:35	End Time (MST)	16:50
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.1	0.0000	Correlation Coefficient	1.000000
271.2	271.0	1.0008		
183.8	184.1	0.9986		
90.8	91.5	0.9924		
			Slope	1.004704
			Intercept	-1.093781



Calibration Summary

Parameter NO_x
 Air Monitoring Network Palliser Airshed



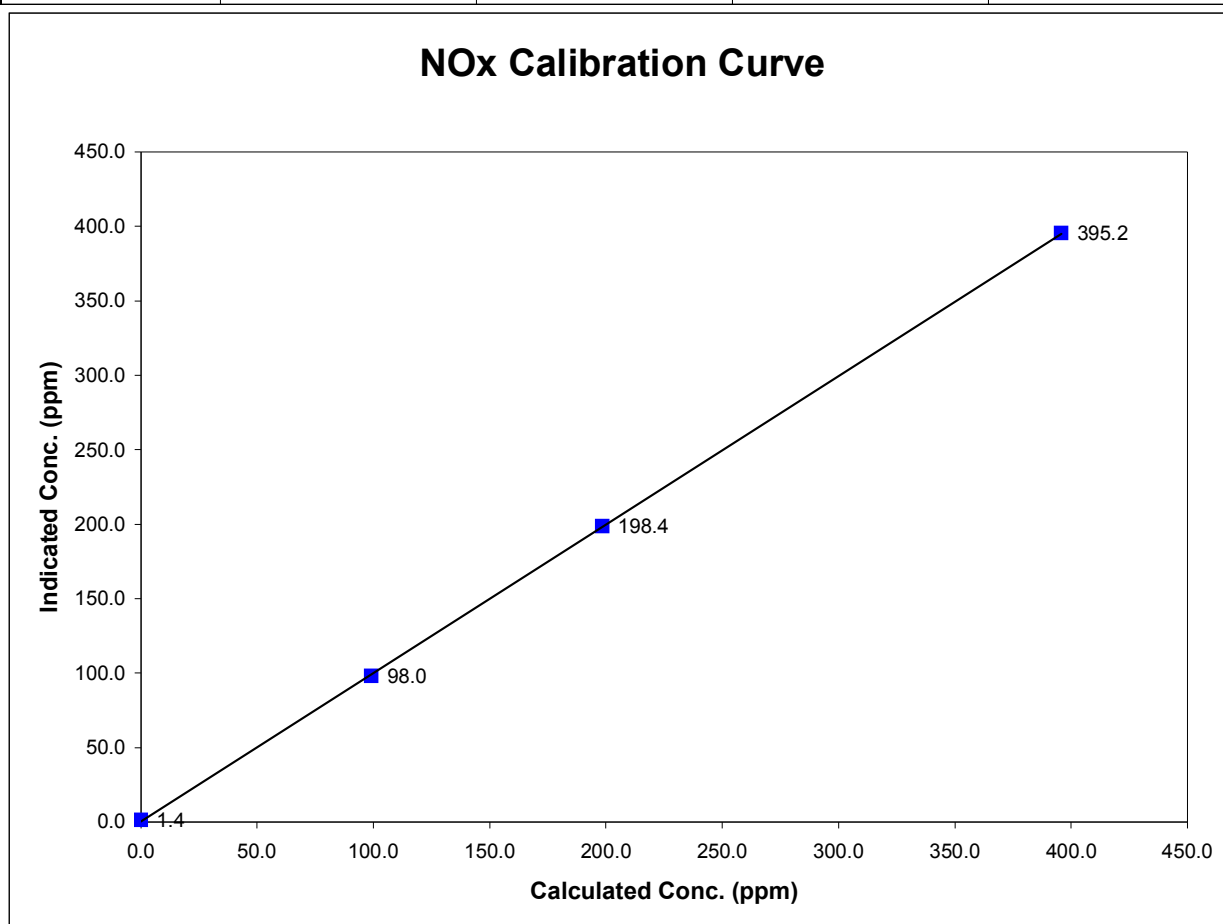
Station Information

Calibration Date	February 27, 2006	Previous Calibration	January 9, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:35	End Time (MST)	16:50
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.4	0.0000	Correlation Coefficient	0.999969
395.8	395.2	1.0015		
198.5	198.4	1.0003		
99.2	98.0	1.0118		
			Slope	1.003411
			Intercept	-0.489680

NO_x Calibration Curve



Calibration Summary

Parameter NO
 Air Monitoring Network Palliser Airshed

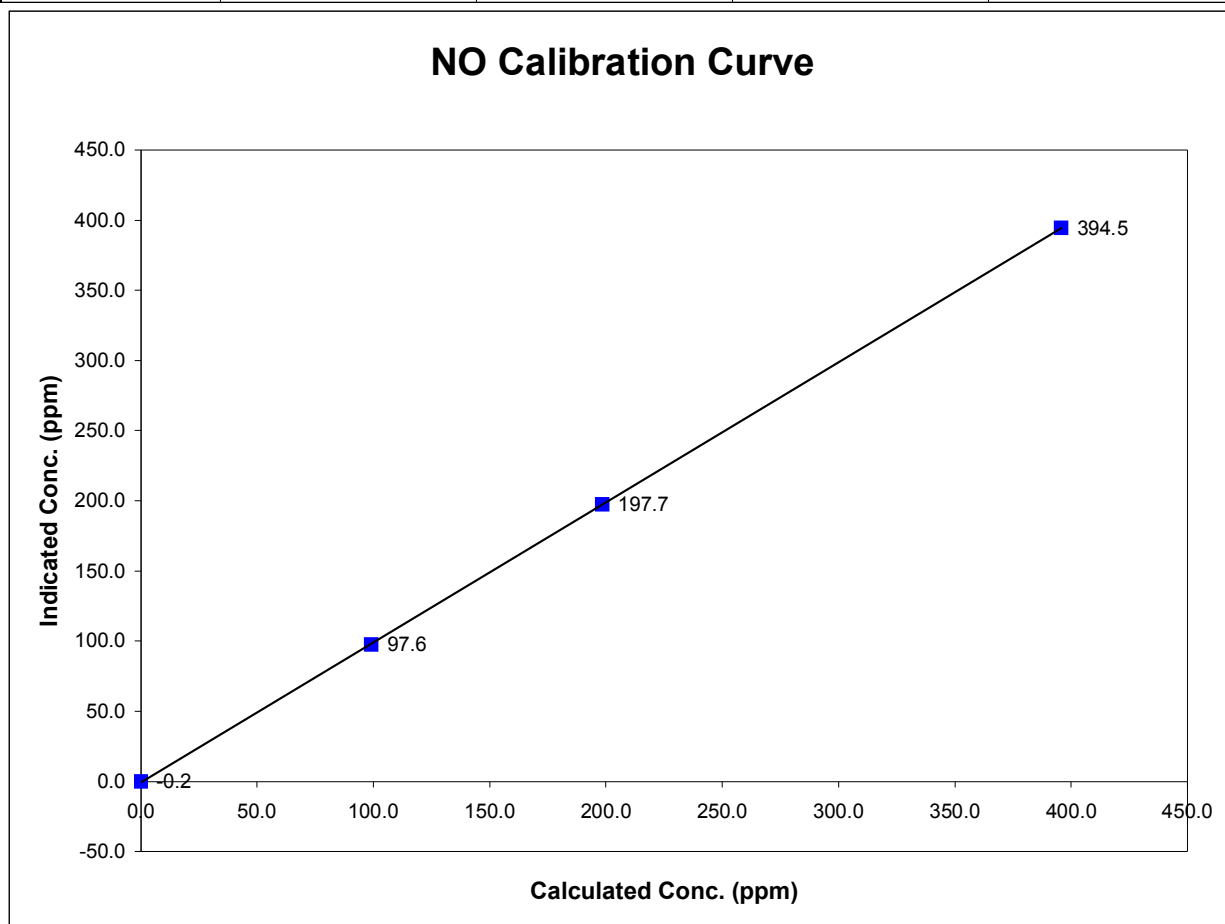


Station Information

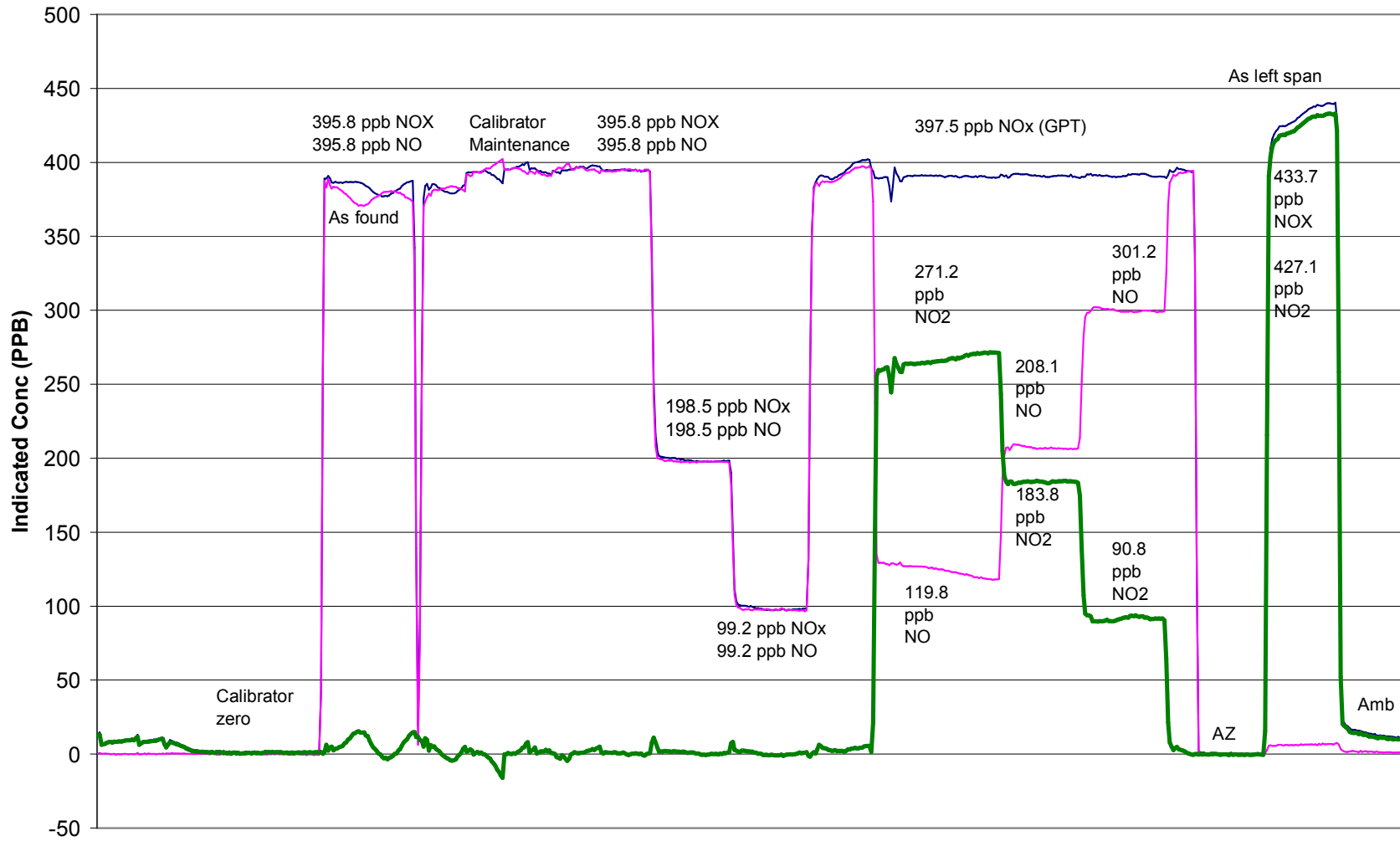
Calibration Date	February 27, 2006	Previous Calibration	January 9, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:35	End Time (MST)	16:50
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.2	N/A		
395.8	394.5	1.0035	Correlation Coefficient	0.999991
198.5	197.7	1.0040		
99.2	97.6	1.0159	Slope	1.002074
			Intercept	0.613547



NOx Calibration



February 27, 2006

Calibration Report

Parameter THC
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	February 22, 2006	Previous Calibration	January 10, 2006
Station Number	101	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	15:00	End Time (MST)	18:15
Barometric Pressure	27.3 inches Hg	Station Temperature	19.0 Deg C
Calibrator	Envionics 6103	Serial Number	2977
Cal Gas Concentration	700 ppm CH ₄ / 301 ppm C ₃ H ₈	Cal Gas Expiry Date	8/28/2005
Cal Gas CH ₄ 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
	<u>Before</u>		<u>After</u>
Calculated slope	0.998334	Calculated slope	0.998478
Calculated intercept	0.081018	Calculated intercept	0.064087
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	12713	raw	12620	raw
THC zero counts	1123	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)
4995	0.00	0.00	-0.01	N/A
4995	79.92	24.06	24.08	0.9993
4995	39.95	12.12	11.99	1.0110
4995	9.96	3.04	2.97	1.0230
zero	0.00	0.00	0.88	As Found Zero
4995	79.92	24.06	23.86	As Found Span
Average Correction Factor				1.0111

Calculated value of As Found Response: 23.014 ppm Percent Change of As Found: 4.3%

	before calibration		after calibration	
Auto zero	0.15	ppm	0.06	ppm
Auto span	23.23	ppm	23.35	ppm

Notes: Zero and span adjustments performed.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter THC
 Air Monitoring Network Palliser Airshed

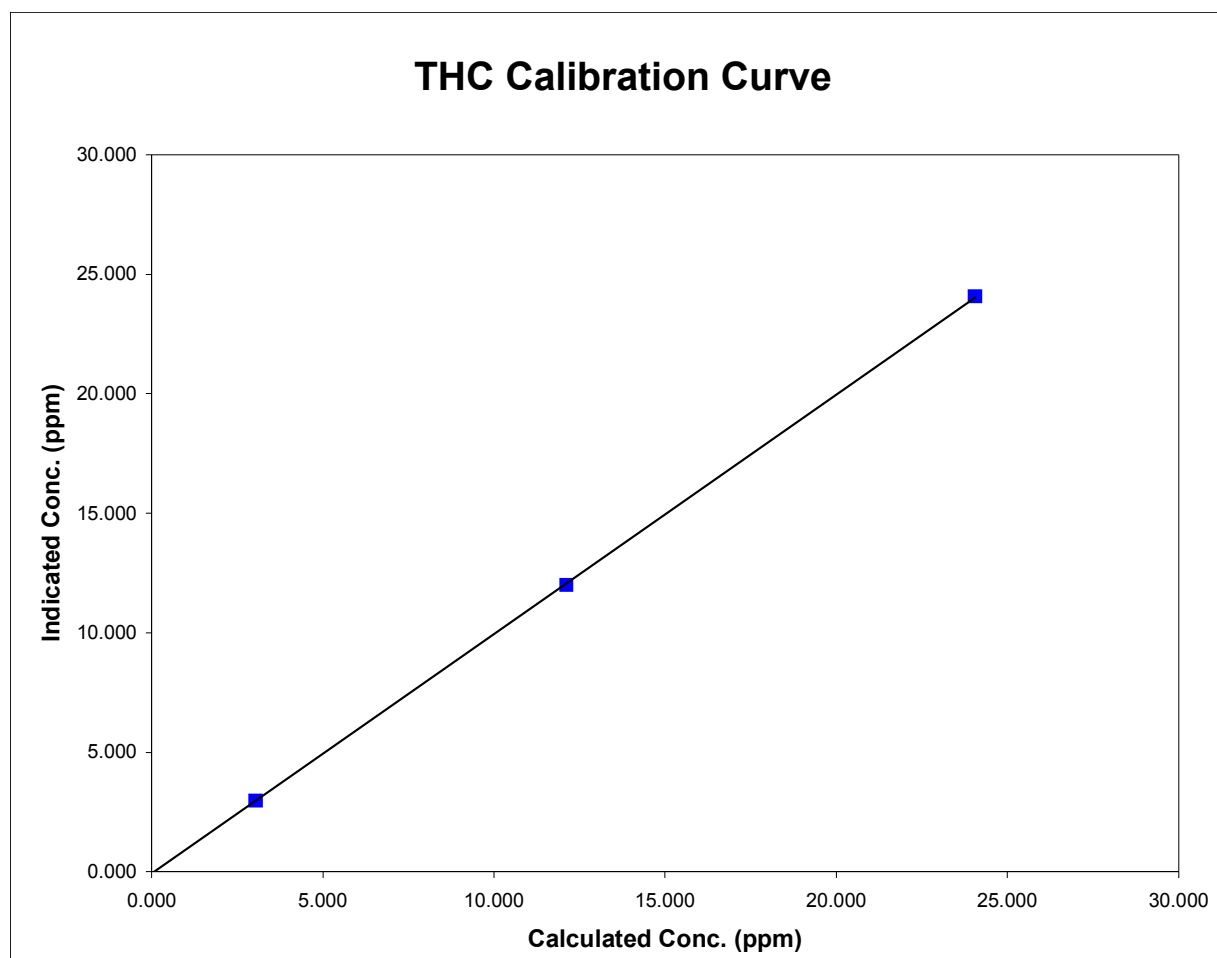


Station Information

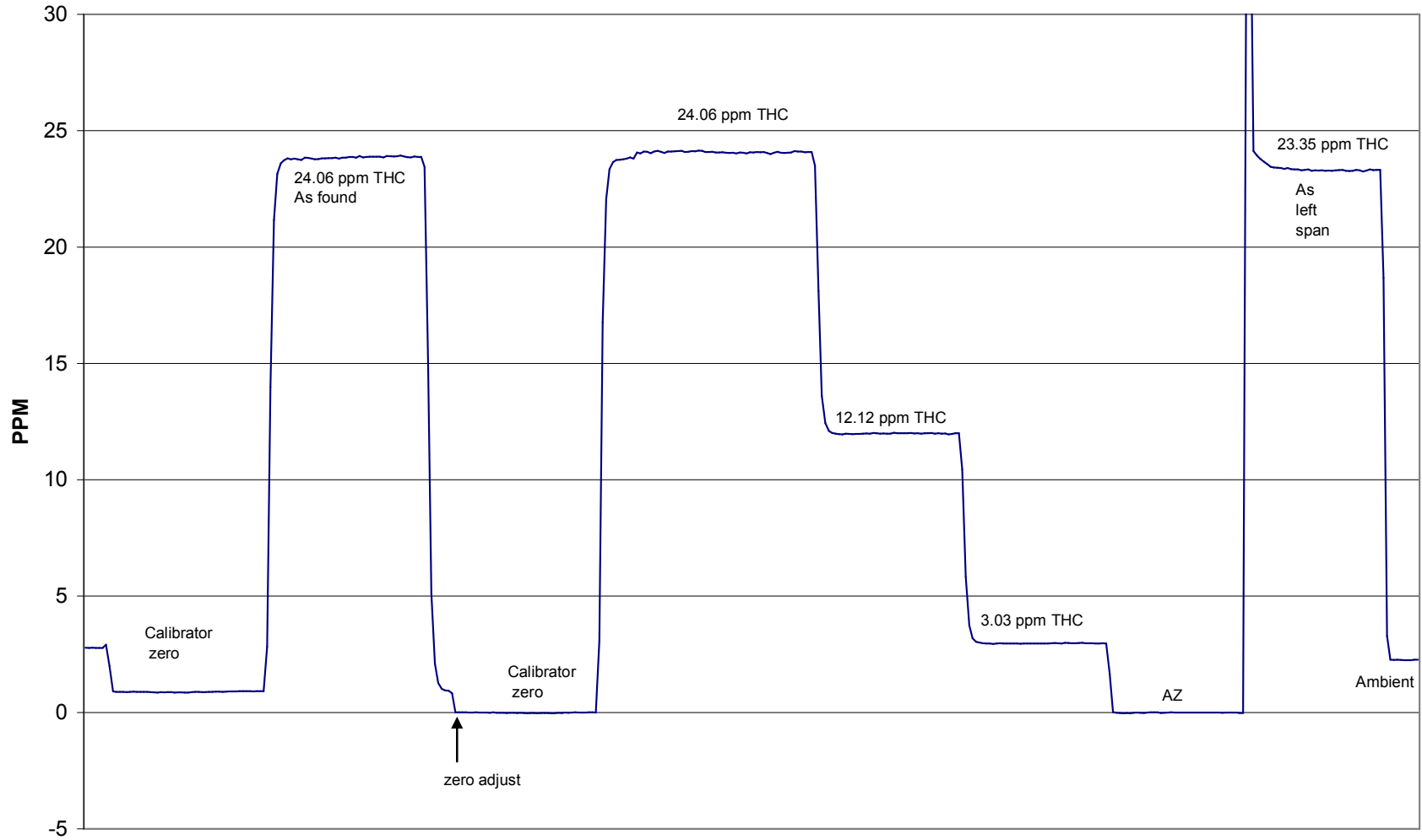
Calibration Date	February 22, 2006	Previous Calibration	January 10, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	15:00	End Time (MST)	18:15
Analyzer make/model	TEI model 51C-LT	Analyzer serial #	407505596

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.014	N/A		
24.059	24.075	0.9993	Correlation Coefficient	0.999966
12.122	11.991	1.0110		
3.040	2.972	1.0230	Slope	0.998478
			Intercept	0.064087



THC Calibration



February 22, 2006

Calibration Report



Parameter CO
 Air Monitoring Network Palliser

Station Information

Calibration Date	February 22, 2006	Previous Calibration	January 10, 2005
Station Number	101	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	12:05	End Time (MST)	15:45
Barometric Pressure	27.3 in Hg	Station Temperature	15.0 Deg C
Calibrator	Envionics 6100	Serial Number	2977
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
	<u>Before</u>		<u>After</u>
Calculated slope	0.993577	Calculated slope	0.994380
Calculated intercept	0.248470	Calculated intercept	0.108388
Analyzer make	TEI Model 48C	Analyzer serial #	436609887

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO coefficient	1.060		1.052	
CO bkg setting	8.287		8.53	
Lamp ratio	1.1427		1.1512	
Lamp intensity	200000	Hz	200150	Hz
Sample Flow	0.991	LPM	1.002	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)
4984	0.00	0.00	0.00	N/A
4995	49.94	29.68	29.78	0.9964
4995	19.96	11.93	11.80	1.0109
4995	9.98	5.98	5.84	1.0242
4984	0.00	0.00	0.46	0.0000
4984	49.83	29.68	31.31	0.9479
Average Correction Factor				1.0105

Calculated value of As Found Response: 30.903 ppm Percent Change of As Found: -4.1%

	before calibration		after calibration	
Auto zero	0.11	ppm	0.10	ppm
Auto span	19.61	ppm	20.38	ppm

Notes: Analyzer was zero and span adjusted.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter CO
 Air Monitoring Network Palliser

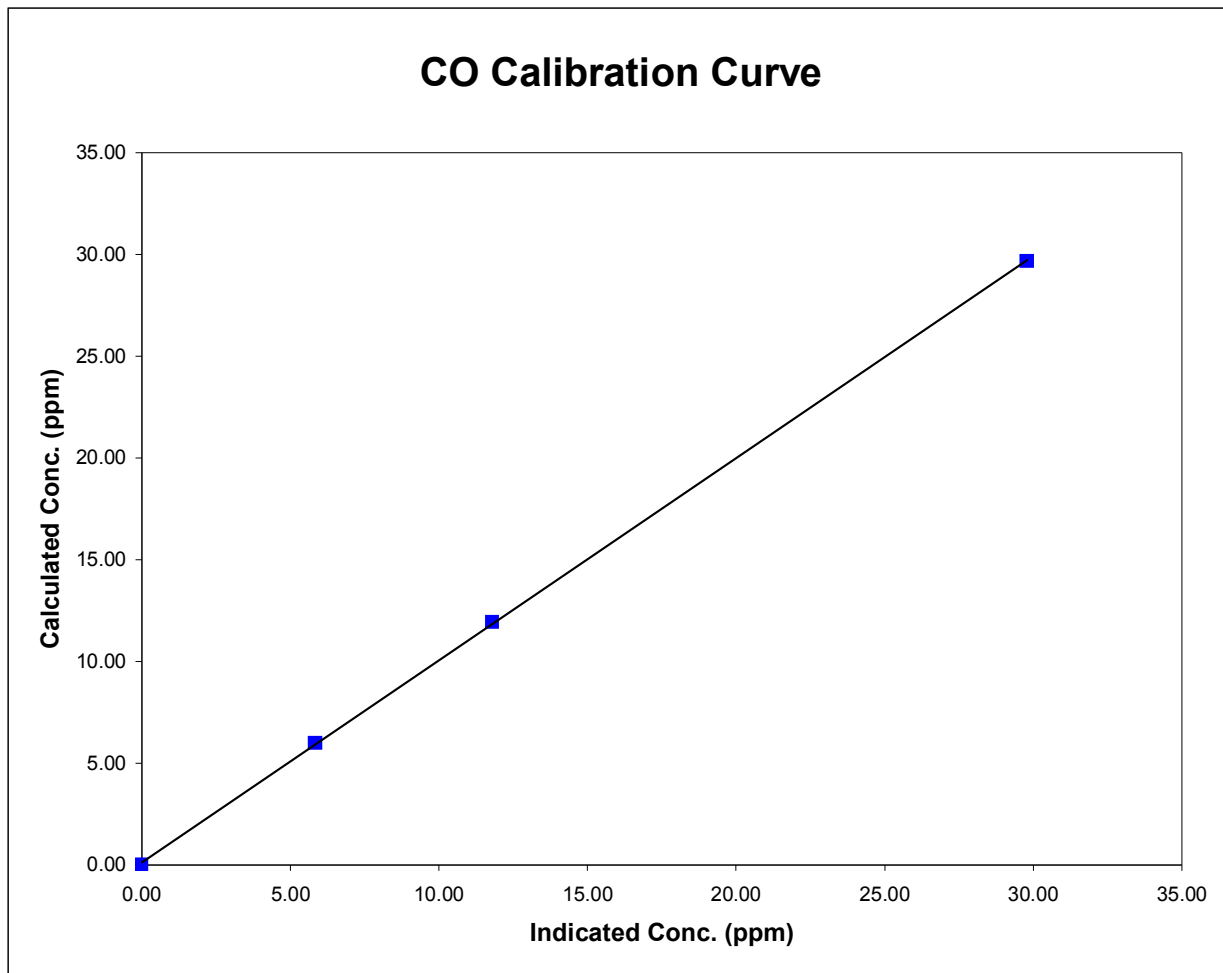


Station Information

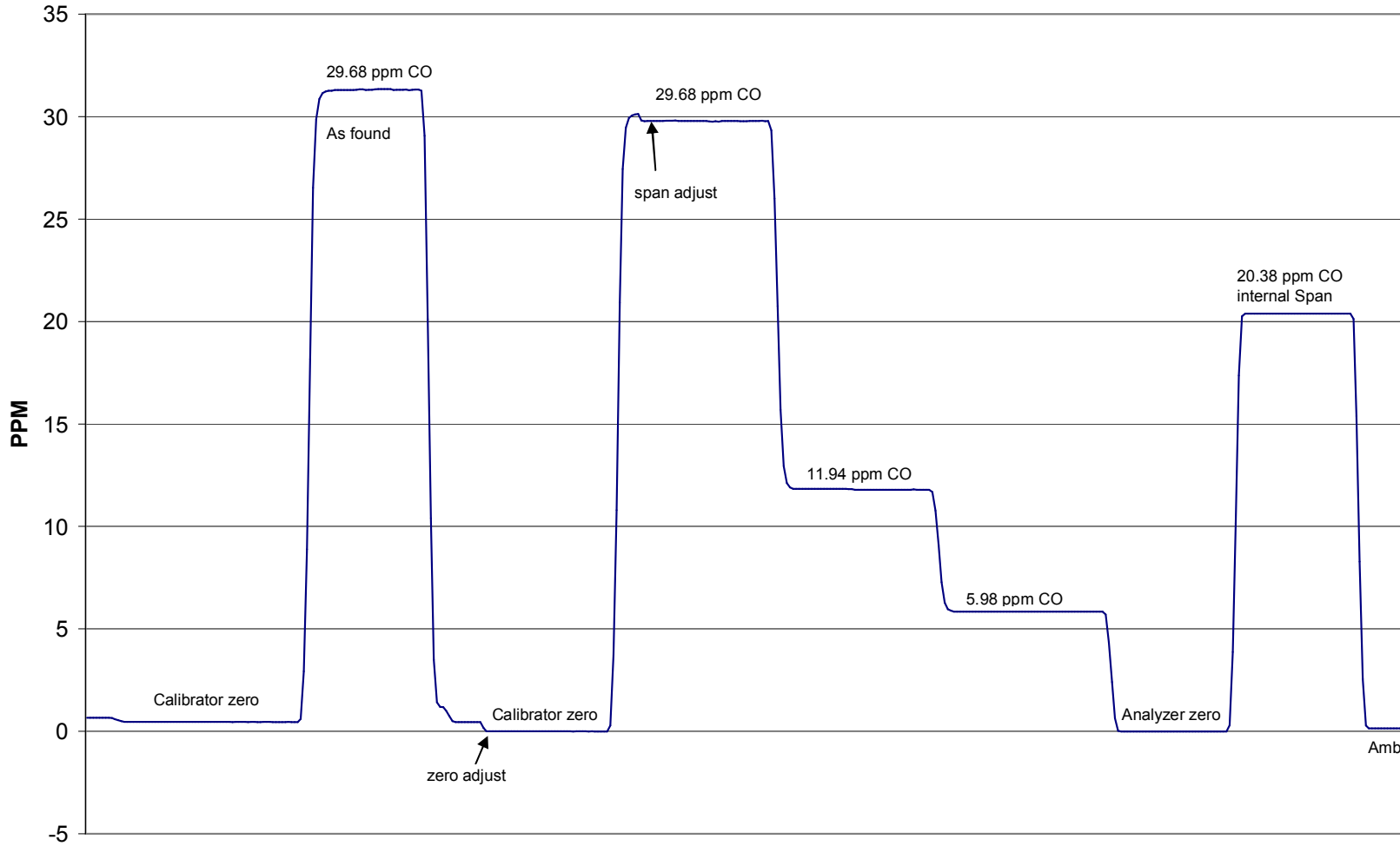
Calibration Date	February 22, 2006	Previous Calibration	January 10, 2005
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	12:05	End Time (MST)	15:45
Analyzer make/model	TEI Model 48C	Analyzer serial #	436609887

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.00	0.00	N/A		
29.68	29.78	0.9964	Correlation Coefficient	0.999949
11.93	11.80	1.0109		
5.98	5.84	1.0242	Slope	0.994380
			Intercept	0.108388



CO Calibration



February 22, 2006