



Palliser Airshed Society

Ambient Air Monitoring Network Summary

January 2007

Prepared By:



TABLE OF CONTENTS

Airshed Zone Association – January PAS Ambient Air Summary Report	4
PAS - Crescent Heights - AQI Monthly Summary	6
PAS - Crescent Heights - Nitrogen Dioxide Monthly Summary	7
PAS - Crescent Heights - Nitric Oxide Monthly Summary	12
PAS - Crescent Heights - Oxides of Nitrogen Monthly Summary.....	13
PAS - Crescent Heights - Ozone Monthly Summary.....	18
PAS - Crescent Heights - Ozone Monthly Summary.....	23
PAS - Crescent Heights - Carbon Monoxide Monthly Summary	24
PAS - Crescent Heights - Carbon Monoxide Monthly Summary	29
PAS - Crescent Heights - Total Hydrocarbons Monthly Summary	30
PAS - Crescent Heights - Particulate Matter (less than 2.5 microns) Monthly Summary	35
PAS - Crescent Heights - Relative Humidity Monthly Summary.....	40
PAS - Crescent Heights - Temperature Monthly Summary	42
PAS - Crescent Heights - Solar Radiation Monthly Summary.....	44
PAS - Crescent Heights - Scalar Wind Speed Monthly Summary	46
PAS - Crescent Heights - Vector Wind Speed Monthly Summary	47
PAS - Crescent Heights - Wind Direction Monthly Summary.....	48
PAS - Crescent Heights - Standard Deviation of Wind Direction Monthly Summary.....	49
Passive Monitoring – January 2007	51
January 2007 - Calibration Reports	55

Table of Figures

Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend.....	8
Figure 2. PAS - Crescent Heights Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend ..	10
Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trend.....	14
Figure 4. PAS - Crescent Heights Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend	17
Figure 5. PAS - Crescent Heights Ozone 1-hr Average Monthly Trend.....	19
Figure 6. PAS - Crescent Heights Ozone Instantaneous (30 Second) Maximum Value Monthly Trend	21
Figure 7. PAS - Crescent Heights Carbon Monoxide 1-hr Average Monthly Trend.....	25
Figure 8. PAS - Crescent Heights Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend ..	27
Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend.....	31
Figure 10. PAS - Crescent Heights Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend	33
Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend	36
Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend	38
Figure 13. PAS - Crescent Heights Relative Humidity 1-hr Average Monthly Trend	41
Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend.....	43
Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend.....	45



February 7, 2007

Alberta Environment
Environmental Service Response Centre
#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 – January 2007

Enclosed is the PAS Ambient Monitoring Report for the month of **January 2007**.

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 uptime of all instruments was 90% or greater for the month of January. There were no significant events leading to emergency response for the month of January.

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

- Monthly average concentrations of NO₂ was 9.0 ppb
- Monthly average concentrations for O₃ was 23.3 ppb
- Monthly average concentrations for CO was 0.2 ppm
- Monthly average concentrations for THC was 2.1 ppm
- Monthly average concentrations for PM_{2.5} was 1.7 µg/m³

The Air Quality Index (AQI) recorded 693 hours of Good readings for the month of January.

Passive Monitoring – Six Sites throughout the PAS zone:

The duplicate NO₂ sampler at the Redcliff site was found damaged and on the ground prior to analysis, the sample was analyzed, however the result was invalidated. The following are the ranges for January 2007 recorded by the six passive stations located throughout the PAS zone.

- ◆ Monthly average concentrations for SO₂ passives ranged from 0.3 to 0.5 ppb.
- ◆ Monthly average concentrations for NO₂ passives ranged from 3.6 ppb to 10.7 ppb.
- ◆ Monthly average concentrations for O₃ passives ranged from 24.0 ppb to 32.6 ppb.

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

Sharon Whiteley, B.Sc.
AQM Data Specialist

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



Continuous Monitoring

Ambient Air Monitoring Network

Crescent Heights Station

General Station Issues

Calibrations were performed on January 16th (NO_x, THC and CO) and 17th (CO, O₃ and TEOM). On January 13th the hydrogen cylinder ran out which resulted in the THC data being flagged invalid for a number of hours, the cylinder was replaced on January 15th. Maintenance was performed on the O₃ analyzer (internal sample pump rebuilt, cleaning and leak check). Maintenance was performed on the CO analyzer to address zero and span issues (internal sample pump rebuilt, cleaned mirrors and zero adjustment). After the maintenance on January 16th the CO analyzer had to be left overnight to stabilize and the routine calibration was performed the next day, span gas pressure was adjusted and spans on the CO analyzer look good.

Parameter	Make	Model	Units	Notes
Ozone	Teledyne - API	400E	ppb	Maintenance performed on January 17 th (internal sample pump rebuilt, cleaning and leak check). Five (5) hours were flagged for maintenance.
Nitrogen Dioxide	Teledyne - API	200E	ppb	No operational issues observed.
Total Hydrocarbons	Bendix	400A	ppm	Forty-seven (47) hours were flagged invalid due to cylinder gas running out. The cylinder was replaced on January 15 th .
Carbon Monoxide	TEI	49C	ppm	Maintenance performed on January 17 th (internal sample pump rebuilt, cleaned mirrors and zero adjustments). Eighteen (18) hours were flagged for maintenance.
PM 2.5	R&P TEOM	1400ab	µg/m ³	There were five (5) hours of excessive baseline drift flagged. No other operational issues observed.
Wind Speed	Met One	010C	kph	No operational issues observed.
Wind Direction	Met One	020C	Deg	No operational issues observed.
Ambient Temperature	Met One	083D	DegC	No operational issues observed.
Relative Humidity	Met One	083D	%	No operational issues observed.
Solar Radiation	Met One	096-1	W/m ²	No operational issues observed.
Data Acquisition System	Titan Logix	AP1000		No operational issues observed.



January 2006 Monthly Overall Summary Report Ambient Air Quality Data

Jan-2007		Palliser Airshed Society					Maximum Recorded Values						Operational Time (%)	
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		Conc	1-hr		24-hr / 8-hr		Day		
	1-hr	24-hr			1-hr	24-hr		Day	WSPD (km/hr)	WDIR (Sector)	Conc			Day
NO (ppb)			Crescent Heights	4.3	-	-	68.1	Jan-23	19:00	4.9	SSE	11.7	Jan-23	100.0%
NO ₂ (ppb)	212	106	Crescent Heights	9.0	0	0	33.4	Jan-13	03:00	3.9	SE	18.1	Jan-17	100.0%
NO _x (ppb)			Crescent Heights	13.0	-	-	94.9	Jan-23	19:00	4.9	SSE	25.3	Jan-13	100.0%
O ₃ (ppb)	82		Crescent Heights	23.3	0	-	37.7	Jan-28	14:00	20.1	NW	32.0	Jan-26	99.3%
O ₃ (ppb) - 8-hr	65		Crescent Heights		0							36.8	Jan-26	
CO (ppm)	13		Crescent Heights	0.20	0	-	1.2	Jan-29	08:00	3.6	NNE	0.3	Jan-29	97.6%
CO (ppm) - 8-hr	5		Crescent Heights		0							0.5	Jan-29	
THC (ppm)			Crescent Heights	2.11	-	-	7.7	Jan-18	05:00	6.4	S	2.6	Jan-18	93.7%
PM _{2.5} (µg/m ³)		30 ^a	Crescent Heights	1.7		0	19.0	Jan-06	13:00	33.8	NNW	4.4	Jan-17	99.3%
RH (%)			Crescent Heights	62.4	-	-	-	-	-	-	-	-	-	100.0%
SR (W/m ²)			Crescent Heights	53.1	-	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Crescent Heights	-4.0	-	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)			Crescent Heights	8.8	-	-	43.5	Jan-03	03:00	43.5	SW	28.1	Jan-02	100.0%
WSPD s (km/hr)			Crescent Heights	14.2	-	-	43.6	Jan-03	03:00	43.6	SW	28.4	Jan-02	100.0%
WDIR			Crescent Heights	WSW	-	-	-	-	-	-	-	-	-	100.0%

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



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: January 1, 2007 to February 1, 2007

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:	693
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	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-Jan-07	8	5	5	6	10	10	11	11	12	13	14	N	18	18	18	17	17	17	16	16	16	16	15	17
2-Jan-07	16	16	16	16	16	16	15	15	15	14	N	14	15	14	14	14	14	15	15	15	15	16	15	16
3-Jan-07	16	14	16	16	16	16	16	15	12	N	13	15	15	16	13	10	9	5	5	5	4	4	6	6
4-Jan-07	5	4	4	3	3	3	3	3	N	10	10	12	13	12	10	9	6	5	6	6	5	8	10	6
5-Jan-07	5	7	8	11	14	14	6	N	11	11	15	17	15	14	14	13	14	16	16	16	16	16	16	17
6-Jan-07	16	16	16	16	16	15	N	15	14	12	13	14	16	16	17	17	18	17	15	13	14	14	15	11
7-Jan-07	14	13	11	13	14	N	13	N	14	N	16	N	17	17	16	15	15	16	16	16	16	16	17	17
8-Jan-07	13	13	8	9	N	13	18	17	18	13	16	16	17	18	18	17	12	6	6	5	6	6	8	15
9-Jan-07	14	13	13	N	13	7	9	6	6	9	8	9	7	11	14	14	14	14	N	16	N	17	17	17
10-Jan-07	18	19	N	19	18	18	11	11	11	12	12	12	13	15	16	16	16	15	16	17	17	17	17	17
11-Jan-07	17	N	16	16	16	16	16	14	13	12	13	13	14	14	12	14	12	9	10	10	9	10	10	13
12-Jan-07	N	13	13	15	14	15	14	14	13	15	14	15	15	15	14	13	11	9	11	11	10	8	6	N
13-Jan-07	8	7	5	8	7	6	6	7	6	6	5	6	12	12	12	12	12	12	15	16	15	13	14	15
14-Jan-07	15	12	N	9	7	5	5	7	6	5	7	9	10	9	11	13	11	8	7	8	5	7	9	11
15-Jan-07	12	N	12	12	12	11	10	10	10	12	13	13	15	15	15	14	12	12	11	13	13	13	14	13
16-Jan-07	N	16	16	16	14	15	14	13	13	15	17	17	17	16	N	N	N	N	N	N	15	15	14	16
17-Jan-07	14	10	N	5	5	6	6	6	N	N	N	N	N	N	N	10	9	9	7	7	7	5	6	6
18-Jan-07	6	9	N	10	8	6	7	7	6	11	14	15	15	15	15	14	7	9	11	11	8	8	10	11
19-Jan-07	12	N	14	13	12	11	8	6	6	6	6	12	16	16	15	14	12	11	8	4	6	5	5	6
20-Jan-07	N	5	5	5	5	5	3	4	5	4	6	7	8	8	9	11	10	11	11	8	7	6	4	N
21-Jan-07	6	4	6	4	4	4	5	6	7	8	9	11	13	16	17	16	15	15	15	15	14	12	N	11
22-Jan-07	12	14	15	15	16	14	13	13	9	11	15	15	14	16	16	16	15	13	12	15	14	N	13	15
23-Jan-07	15	15	14	15	15	14	12	6	6	5	5	6	6	8	12	7	5	6	6	6	N	4	5	8
24-Jan-07	6	6	8	8	9	8	9	9	10	10	11	12	13	13	13	13	11	10	8	N	8	8	10	11
25-Jan-07	11	12	12	14	13	15	13	13	13	13	14	14	14	15	15	16	13	12	N	16	12	14	16	16
26-Jan-07	15	16	17	15	16	14	12	10	13	13	16	19	19	19	18	18	18	N	18	17	17	16	16	15
27-Jan-07	13	11	9	7	6	5	4	5	5	5	7	12	15	18	18	18	N	8	10	12	13	13	13	13
28-Jan-07	12	8	8	9	9	11	12	10	8	14	17	18	18	19	19	N	18	17	16	14	14	15	14	13
29-Jan-07	13	12	12	11	9	6	6	6	7	6	9	16	18	19	N	18	17	15	9	6	6	6	6	9
30-Jan-07	7	15	17	16	16	15	13	10	6	6	8	14	16	N	15	15	18	18	18	18	18	17	17	17
31-Jan-07	17	17	16	16	16	13	13	12	11	13	14	15	N	16	16	15	12	11	12	13	14	17	18	18



PAS - Crescent Heights - Nitrogen Dioxide Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

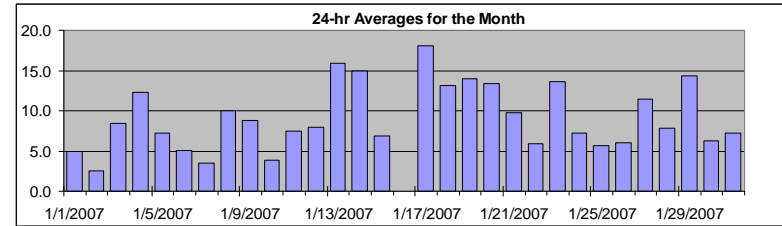
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: January 1, 2007 to February 1, 2007

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

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	33.4	ppb	13-Jan	3:00 4:00
Maximum 24-hr Average:	18.1	ppb	17-Jan	



AIC Time:	33 hrs	Operational Time:	706 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	28.8	24.0	11.9	7.0	3.9	2.0	1.2	9.0 ppb	7.0 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																							24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Jan-07	7	12	11	12	7	7	5	8	4	5	5	A	3	2	2	3	2	2	3	3	2	2	6	1	5.0	12.1
2-Jan-07	1	2	1	2	1	1	2	2	4	3	A	5	5	5	4	4	4	3	3	2	2	1	1	1	2.5	5.5
3-Jan-07	1	3	1	1	1	1	3	3	8	A	8	5	4	4	6	11	11	19	15	14	15	24	23	8.5	23.5	
4-Jan-07	23	17	15	12	11	9	11	14	A	9	9	4	4	6	9	13	20	21	14	13	16	12	7	11	12.2	22.9
5-Jan-07	14	11	11	7	5	7	26	A	13	14	7	4	4	5	6	8	7	5	3	2	3	2	2	2	7.3	25.7
6-Jan-07	2	2	2	2	2	3	A	4	5	9	7	8	7	7	5	5	3	4	7	7	4	8	4	9	5.0	8.9
7-Jan-07	4	5	10	5	3	A	6	6	4	3	2	3	2	1	3	6	3	2	2	2	3	2	2	1	3.5	10.5
8-Jan-07	5	2	11	9	A	9	5	6	4	11	5	7	6	4	4	13	25	20	21	25	16	13	4	10.0	25.4	
9-Jan-07	3	4	7	A	8	17	11	26	19	10	14	12	17	12	6	6	6	5	4	3	4	3	3	3	8.8	26.3
10-Jan-07	2	2	A	4	3	2	8	8	8	6	6	5	4	3	2	3	3	4	4	2	2	4	2	2	3.9	8.4
11-Jan-07	3	A	4	2	3	3	3	6	9	8	5	8	5	6	9	5	9	15	12	11	12	12	8	7.4	14.9	
12-Jan-07	A	9	9	7	8	4	7	7	8	5	5	4	3	3	3	4	8	12	8	8	10	16	24	A	7.9	24.3
13-Jan-07	33	28	20	33	30	26	23	31	27	25	23	21	7	7	8	7	8	4	3	3	5	3	2	16.0	33.4	
14-Jan-07	3	6	A	13	15	21	23	30	25	18	15	11	10	14	12	7	9	15	17	13	22	28	10	5	14.9	29.7
15-Jan-07	4	A	6	5	6	7	10	11	11	7	7	7	5	6	5	6	10	9	11	8	6	5	3	6	6.8	11.4
16-Jan-07	A	4	4	3	4	3	5	7	8	6	4	4	3	6	C	C	C	C	C	A	7	6	8	3	N	8.0
17-Jan-07	6	12	A	20	21	24	24	26	20	17	21	16	11	7	7	12	17	18	16	29	28	23	20	21	18.1	28.8
18-Jan-07	16	10	A	9	13	25	28	30	24	12	6	5	4	5	5	8	22	16	10	9	14	13	10	9	13.1	30.5
19-Jan-07	8	A	6	5	9	10	15	26	26	23	24	13	4	4	6	7	10	13	16	18	24	22	19	14	14.0	26.4
20-Jan-07	A	20	21	23	22	21	15	18	18	13	9	9	8	7	9	7	10	9	8	11	9	9	16	A	13.3	22.9
21-Jan-07	24	19	15	19	13	13	16	10	10	9	7	6	6	4	4	5	6	5	4	4	6	7	A	12	9.8	23.7
22-Jan-07	8	3	3	3	2	4	8	9	17	14	6	6	7	4	3	3	4	7	8	3	4	A	8	2	5.9	17.4
23-Jan-07	2	3	3	2	3	4	8	19	23	20	20	24	25	15	5	14	18	17	25	27	A	18	13	7	13.7	26.8
24-Jan-07	11	10	8	6	6	9	8	8	8	7	6	4	4	5	6	6	8	8	9	A	10	10	6	5	7.2	11.0
25-Jan-07	5	4	3	3	6	3	6	8	7	8	5	4	3	3	4	5	10	13	A	6	10	7	4	4	5.6	12.7
26-Jan-07	6	5	5	6	5	9	13	17	11	12	7	4	4	4	5	4	4	A	5	3	2	3	3	3	6.0	16.9
27-Jan-07	5	5	11	14	24	18	18	20	22	19	14	9	4	2	2	3	A	23	17	9	6	7	6	4	11.4	24.0
28-Jan-07	4	8	9	10	11	10	10	13	20	10	5	4	4	3	2	A	5	5	5	8	10	6	8	9	7.8	20.4
29-Jan-07	8	8	8	9	12	17	23	26	29	25	17	5	3	2	A	4	5	8	17	25	27	26	15	11	14.4	28.9
30-Jan-07	17	5	3	2	3	3	4	7	13	15	16	9	5	A	9	9	4	4	4	3	3	2	2	3	6.3	16.7
31-Jan-07	2	2	3	4	5	9	11	12	13	10	10	8	A	6	5	7	11	10	10	10	10	4	2	2	7.2	13.3
Hourly Avg	8.0	7.9	7.7	8.4	8.8	9.9	11.8	13.9	14.1	11.8	9.9	7.7	6.0	5.4	5.4	6.5	8.6	10.4	9.6	9.6	9.9	9.8	8.6	6.4		
Hourly Max	32.8	28.0	21.2	33.4	30.3	25.7	27.5	30.6	28.9	25.5	23.9	24.5	25.0	14.7	11.7	14.1	21.7	25.2	24.9	28.8	27.9	27.7	24.3	23.2		

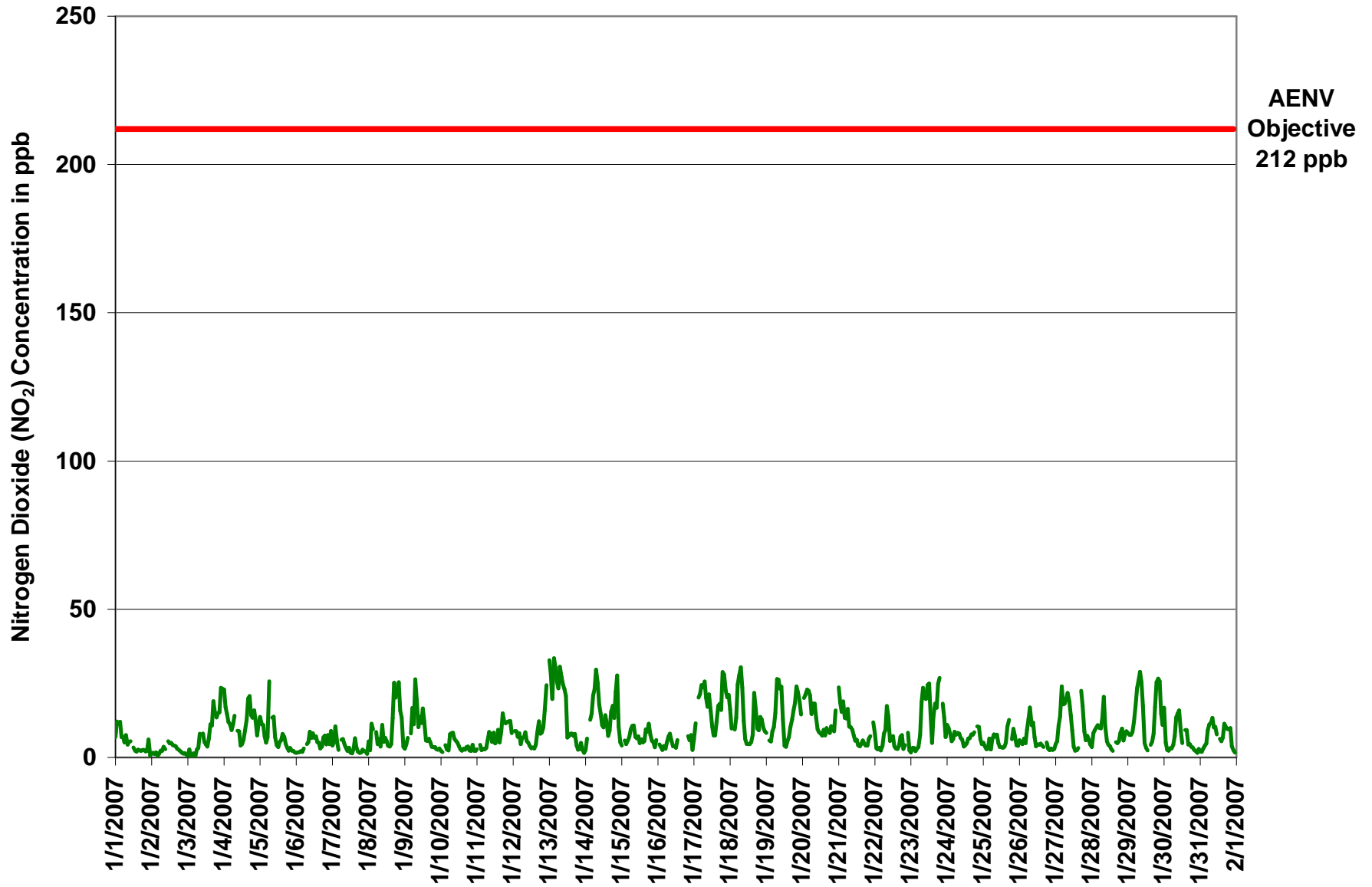


Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

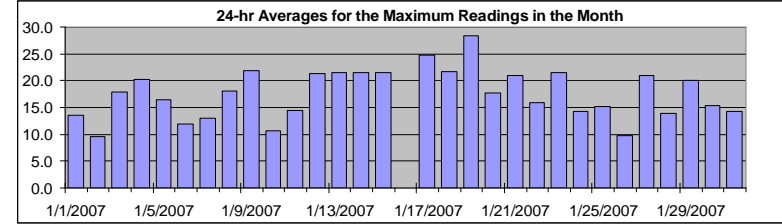
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: January 1, 2007 to February 1, 2007

Summary

Maximum 1-hr Value:	68.9	ppb	19-Jan	7:00 8:00
Maximum 24-hr Value:	28.4	ppb	19-Jan	



AIC Time:	33 hrs	Operational Time:	706 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	46.7	38.4	26.1	15.5	8.1	3.6	2.2	17.7 ppb	15.5 ppb

Status Flag Characters

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

Day Mountain Standard Time

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-Jan-07	10	16	18	31	30	12	9	22	6	17	14	A	10	4	3	25	4	4	32	4	4	36	2	13.6	35.9	
2-Jan-07	4	3	2	23	1	32	17	4	26	5	A	7	32	6	6	6	5	15	4	4	3	12	2	9.6	31.7	
3-Jan-07	2	24	6	2	15	2	19	8	43	A	19	12	7	10	11	15	17	34	21	28	20	24	53	25	18.0	52.8
4-Jan-07	26	27	26	21	32	12	29	24	A	16	11	7	7	13	14	29	29	28	19	21	25	20	13	15	20.2	32.5
5-Jan-07	24	20	19	11	10	12	38	A	38	43	38	6	5	24	9	11	22	8	5	3	5	4	11	12	16.5	42.7
6-Jan-07	3	3	3	20	4	6	A	6	15	17	13	15	14	14	14	12	4	5	19	11	6	28	15	29	12.0	29.4
7-Jan-07	13	7	45	25	4	A	29	8	7	12	4	35	2	2	24	21	13	3	2	2	16	13	11	2	13.1	45.3
8-Jan-07	17	8	18	15	A	17	18	13	9	16	15	12	10	8	15	6	20	37	34	32	31	20	40	6	18.1	39.7
9-Jan-07	4	8	56	A	32	33	20	41	35	23	25	22	31	37	8	14	9	9	5	32	27	4	22	6	22.0	56.3
10-Jan-07	26	3	A	37	41	4	12	11	14	8	8	7	5	4	10	4	4	6	8	4	8	15	4	4	10.7	41.4
11-Jan-07	8	A	10	3	4	5	6	12	11	10	8	21	11	10	13	18	16	32	30	24	17	33	17	13	14.4	33.4
12-Jan-07	A	19	21	12	30	7	26	11	11	32	24	10	5	24	22	7	25	33	20	28	13	49	40	A	21.3	49.1
13-Jan-07	40	37	26	51	39	29	30	49	38	32	27	28	11	9	10	9	9	9	8	4	4	9	4	3	21.5	51.3
14-Jan-07	4	8	A	18	17	26	29	39	29	22	19	17	23	19	13	11	19	35	30	18	33	37	20	8	21.5	39.1
15-Jan-07	6	A	8	19	39	29	27	21	23	29	22	25	31	40	18	8	12	11	38	18	29	10	5	25	21.5	39.9
16-Jan-07	A	6	43	4	21	4	28	38	39	28	7	29	15	20	C	C	C	C	C	A	16	8	39	5	N	43.4
17-Jan-07	11	18	A	23	27	27	39	30	28	22	23	18	13	10	9	20	23	30	28	38	36	27	26	44	24.8	43.7
18-Jan-07	38	13	A	13	20	30	34	43	34	39	8	9	22	20	7	11	28	25	13	13	34	20	13	11	21.7	42.8
19-Jan-07	11	A	9	10	39	42	33	69	46	31	29	47	38	37	30	10	12	22	24	23	27	25	21	19	28.4	68.9
20-Jan-07	A	23	28	42	29	23	19	21	24	17	12	9	10	9	11	9	13	11	11	14	12	13	30	A	17.7	42.3
21-Jan-07	36	21	25	29	31	25	28	14	12	38	24	6	19	6	4	11	31	20	21	7	29	29	A	16	21.0	37.7
22-Jan-07	15	6	12	5	4	24	45	29	33	31	7	29	11	9	4	4	5	32	12	4	9	A	31	4	15.8	45.3
23-Jan-07	2	12	8	4	12	13	16	27	28	31	24	32	29	22	19	22	28	28	30	45	A	23	19	19	21.5	45.1
24-Jan-07	26	17	11	7	22	14	19	31	28	8	14	6	5	7	8	8	12	11	21	A	12	28	8	5	14.3	31.3
25-Jan-07	24	7	4	6	34	4	12	23	22	18	9	19	10	24	9	8	19	24	A	9	26	27	5	8	15.2	33.6
26-Jan-07	10	10	7	9	7	13	17	25	15	16	13	10	10	7	10	8	5	A	9	5	5	4	3	5	9.7	25.3
27-Jan-07	8	8	14	21	28	26	23	30	29	56	23	13	18	4	4	7	A	29	32	13	8	26	38	27	21.0	56.3
28-Jan-07	24	26	22	13	15	12	12	26	28	21	8	9	8	4	3	A	7	6	7	17	19	10	11	14	13.9	27.9
29-Jan-07	11	9	11	11	17	25	27	36	37	39	38	8	5	4	A	7	7	13	25	33	30	33	19	17	20.1	39.0
30-Jan-07	31	22	22	25	32	19	20	13	27	20	19	17	7	A	16	20	8	8	5	6	5	4	2	6	15.4	31.9
31-Jan-07	4	3	5	8	6	26	16	17	24	26	28	18	A	11	16	24	18	16	12	15	17	8	4	3	14.2	27.9
Hourly Avg	15.6	13.8	17.7	17.2	21.4	18.4	23.2	24.7	25.3	24.1	17.7	16.7	14.2	13.9	11.8	12.5	14.6	18.8	18.2	16.4	17.5	18.5	19.1	12.2		
Hourly Max	39.6	37.0	56.3	51.3	41.4	42.2	45.3	68.9	45.7	56.3	38.4	46.8	38.1	39.9	30.1	28.9	30.6	37.2	37.7	45.1	35.9	49.1	52.8	43.7		

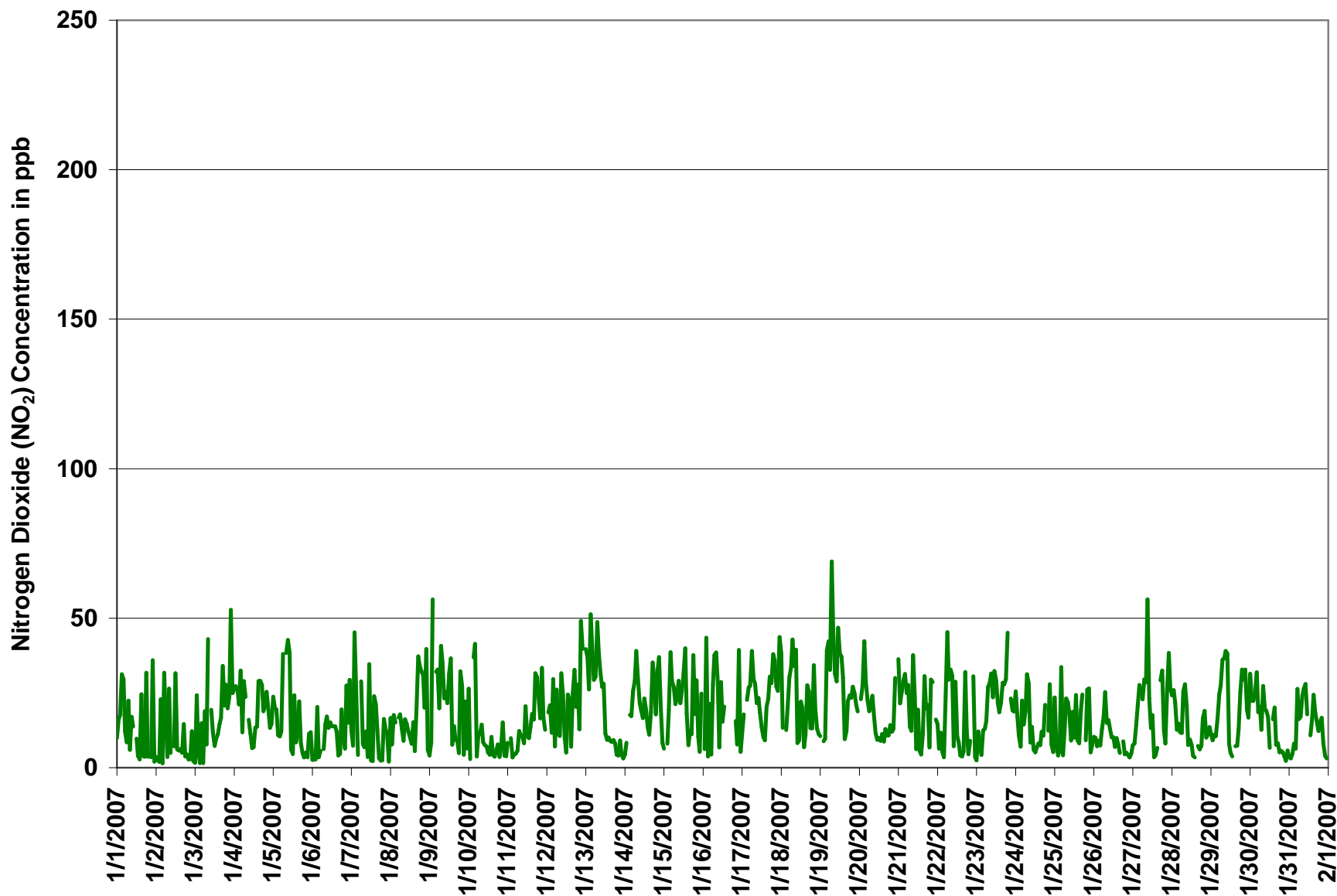
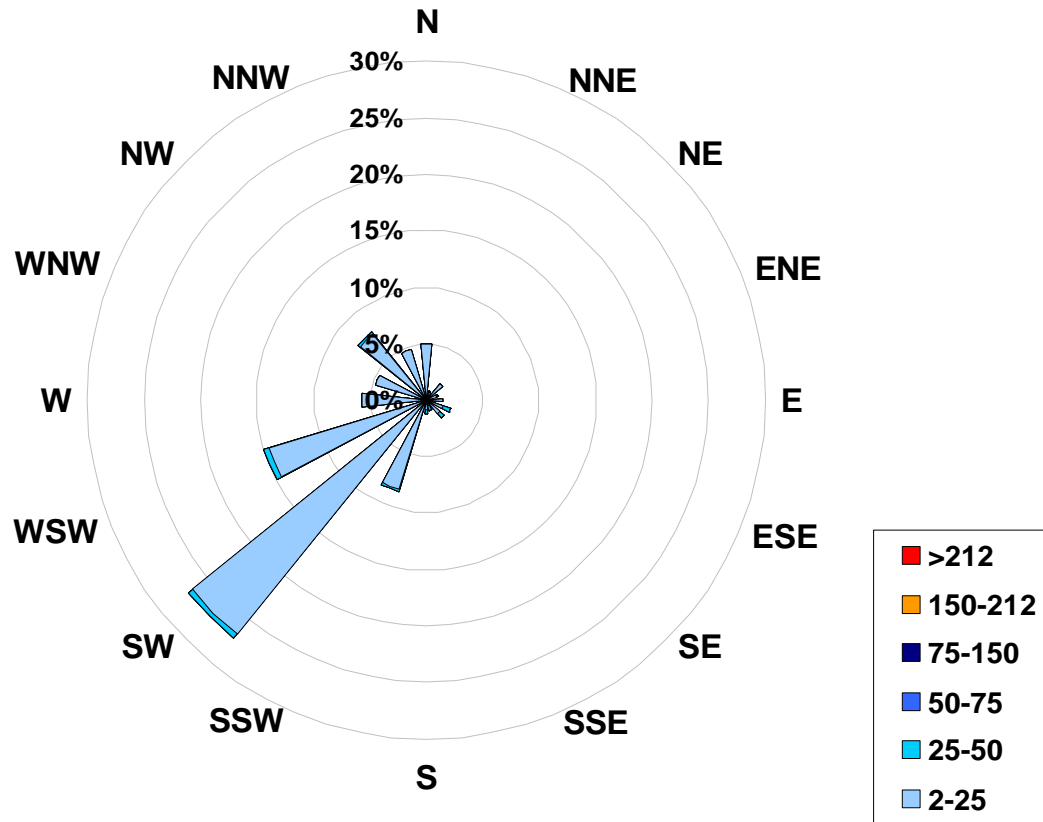


Figure 2. PAS - Crescent Heights Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Crescent Heights Site for January 2007



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		688
25	to 50		11
50	to 75		7
75	to 150		0
150	to 212		0
	> 212		0
Total Non-Zero Values			706



PAS - Crescent Heights - Nitric Oxide Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

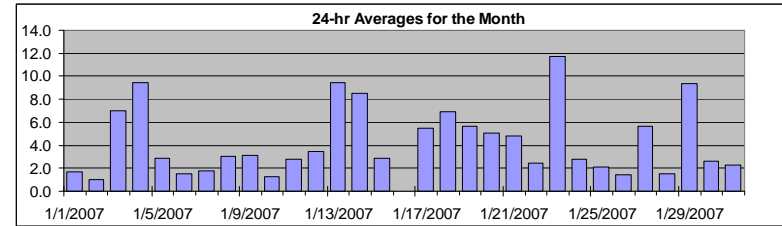
Nitric Oxide (NO)

Monitoring Dates: January 1, 2007 to February 1, 2007

Guideline Limit:
 Summary

1-hr	na	ppb	24-hr	na	ppb
------	----	-----	-------	----	-----

Maximum 1-hr Average:	68.1	ppb	23-Jan	19:00 20:00
Maximum 24-hr Average:	11.7	ppb	23-Jan	



AIC Time:	33 hrs	Operational Time:	706 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	36.2	15.6	4.1	2.0	1.0	0.4	0.2	4.3 ppb	2.0 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																								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-Jan-07	0	3	2	6	3	0	0	4	0	2	3	A	1	1	1	2	1	1	1	1	1	0	7	0	1.7	6.8	
2-Jan-07	0	0	0	1	0	1	2	1	3	1	A	2	3	1	1	1	1	1	1	1	0	0	1	0	1.0	2.6	
3-Jan-07	0	1	0	0	1	0	2	1	10	A	3	2	2	1	2	3	3	8	3	4	2	9	52	51	7.0	52.3	
4-Jan-07	62	36	24	18	12	1	7	7	A	2	2	2	2	3	4	5	8	7	4	2	4	3	1	1	9.5	62.0	
5-Jan-07	4	3	2	1	1	1	15	A	4	7	4	2	2	5	3	3	2	1	1	1	1	1	1	1	2.8	15.4	
6-Jan-07	0	0	0	1	0	0	A	1	1	3	2	3	3	3	2	1	1	1	1	1	1	4	1	3	1.5	4.0	
7-Jan-07	1	1	12	3	1	A	2	1	1	2	1	2	1	1	2	4	1	1	1	1	1	1	1	1	1.8	11.5	
8-Jan-07	2	1	2	1	A	1	1	2	2	4	3	4	3	2	2	1	2	6	4	5	15	2	6	0	3.1	14.6	
9-Jan-07	0	1	4	A	2	2	1	12	9	2	5	5	9	11	1	1	1	1	2	1	2	1	0	1	0	3.1	12.3
10-Jan-07	0	0	A	1	0	0	1	2	2	2	2	2	2	1	1	1	1	1	2	1	1	2	1	1	1.2	2.4	
11-Jan-07	1	A	1	1	1	1	2	2	3	3	3	7	4	4	7	3	2	4	5	2	1	3	1	1	2.8	7.3	
12-Jan-07	A	2	1	0	2	1	2	1	3	4	4	3	2	3	3	2	3	9	2	3	1	5	18	A	3.4	18.3	
13-Jan-07	26	12	2	26	13	3	6	28	18	24	25	25	4	4	3	3	1	1	0	1	0	1	0	0	9.4	27.6	
14-Jan-07	0	0	A	0	1	2	4	36	14	16	18	14	12	16	9	3	2	7	4	2	11	20	2	1	8.5	36.2	
15-Jan-07	0	A	1	2	3	3	3	2	3	5	4	5	3	7	4	2	2	2	5	1	3	1	1	3	2.8	7.3	
16-Jan-07	A	1	2	1	2	0	2	4	4	3	2	3	2	4	C	C	C	C	C	A	1	1	5	0	N	4.6	
17-Jan-07	0	1	A	2	3	6	5	7	6	6	12	9	6	3	3	4	3	3	2	11	15	4	3	12	5.5	15.0	
18-Jan-07	13	1	A	1	2	10	20	53	15	7	3	3	3	3	2	3	6	2	1	2	6	2	1	1	6.9	53.2	
19-Jan-07	1	A	1	0	7	3	3	12	14	14	23	13	3	4	5	2	2	2	2	2	8	4	2	2	5.6	22.9	
20-Jan-07	A	3	3	15	12	7	3	5	15	8	5	6	5	3	3	2	2	1	1	2	3	3	5	A	5.1	14.7	
21-Jan-07	22	7	8	16	4	2	10	1	2	6	4	4	4	2	2	2	4	2	2	1	3	4	A	1	4.8	22.4	
22-Jan-07	1	0	1	0	0	2	5	4	9	7	3	4	3	2	1	1	1	3	1	1	1	A	5	1	2.5	9.1	
23-Jan-07	1	1	0	1	1	1	2	2	14	19	13	29	31	14	3	7	12	5	31	68	A	9	4	3	11.7	68.1	
24-Jan-07	6	1	0	1	6	2	3	5	6	3	4	3	3	2	2	2	2	2	4	A	2	5	1	1	2.8	6.3	
25-Jan-07	4	1	1	0	5	1	1	3	3	3	2	2	2	2	6	1	2	2	A	1	2	2	1	0	2.1	5.6	
26-Jan-07	1	0	1	0	0	1	1	2	2	3	3	2	2	2	2	2	1	A	1	1	1	2	1	1	1.4	3.1	
27-Jan-07	1	1	1	2	4	3	5	12	28	28	15	7	3	1	1	1	A	3	3	1	1	3	5	2	5.6	27.8	
28-Jan-07	1	3	2	1	1	1	1	2	4	3	2	2	1	1	1	A	1	1	1	1	2	1	1	1	1.5	4.4	
29-Jan-07	1	1	1	1	3	2	6	20	56	53	21	2	2	1	A	1	1	0	1	7	8	22	3	1	9.3	55.9	
30-Jan-07	6	1	1	1	3	1	3	2	8	6	6	4	2	A	3	3	1	1	1	1	1	1	1	1	2.6	8.4	
31-Jan-07	1	1	1	1	1	2	2	2	5	4	5	5	A	3	4	4	3	2	1	1	2	1	1	1	2.3	5.4	
Hourly Avg	5.6	2.9	2.7	3.5	3.1	2.0	4.0	7.8	8.8	8.3	6.8	5.9	4.2	3.8	2.9	2.3	2.5	2.7	3.0	4.4	3.3	3.9	4.4	3.1			
Hourly Max	62.0	36.0	24.4	26.3	13.4	9.5	19.8	53.2	55.9	52.8	24.8	28.8	30.7	16.4	9.2	7.4	11.6	9.0	31.2	68.1	15.0	22.5	52.3	51.1			



PAS - Crescent Heights - Oxides of Nitrogen Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

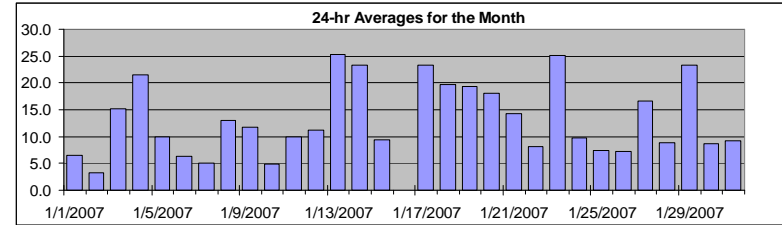
Oxides of Nitrogen (NO_x)

Monitoring Dates: January 1, 2007 to February 1, 2007

Guideline Limit: Alberta Environment:

1-hr	na	ppb	24-hr	na	ppb
------	----	-----	-------	----	-----

Maximum 1-hr Average:	94.9	ppb	23-Jan	19:00 20:00
Maximum 24-hr Average:	25.3	ppb	13-Jan	



AIC Time:	33 hrs	Operational Time:	706 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	65.4	38.8	15.4	9.2	5.1	2.4	1.2	13.0 ppb	9.2 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Jan-07	7	14	13	17	9	7	5	11	4	7	8	A	4	3	3	4	3	3	4	3	2	2	13	1	6.4	17.5
2-Jan-07	2	1	1	3	1	2	4	3	6	3	A	7	7	6	5	5	4	4	3	2	2	1	2	1	3.2	7.0
3-Jan-07	0	4	0	0	2	1	4	4	18	A	11	7	6	5	8	14	14	27	18	17	16	24	76	74	15.2	75.6
4-Jan-07	85	53	39	30	23	11	18	21	A	11	11	6	6	9	13	17	28	28	18	16	20	15	9	12	21.6	84.7
5-Jan-07	17	14	13	8	5	7	41	A	17	21	11	6	6	10	8	10	9	5	4	3	4	3	3	2	9.9	41.1
6-Jan-07	2	2	2	3	2	3	A	5	6	11	8	11	9	10	7	6	4	4	8	9	5	11	6	12	6.3	11.9
7-Jan-07	5	5	22	8	3	A	7	7	5	4	3	5	2	2	5	10	5	2	2	2	3	3	3	2	5.0	21.7
8-Jan-07	7	3	13	11	A	10	6	8	5	15	8	11	8	6	5	6	15	31	24	26	40	18	19	4	12.9	39.9
9-Jan-07	3	5	10	A	10	19	12	38	29	12	18	16	26	23	7	6	7	6	4	5	4	3	3	3	11.7	38.5
10-Jan-07	2	2	A	5	3	2	9	10	11	8	7	7	5	4	3	4	3	4	5	3	3	6	3	3	4.8	10.7
11-Jan-07	3	A	5	3	3	4	4	8	12	11	8	15	9	10	16	7	11	19	17	13	13	15	13	9	9.9	19.2
12-Jan-07	A	10	10	7	10	5	9	8	11	9	9	7	6	7	5	6	11	21	10	11	11	21	43	A	11.2	42.5
13-Jan-07	59	40	21	60	44	29	30	58	45	48	48	46	11	11	11	11	8	9	4	3	3	5	3	1	25.3	59.7
14-Jan-07	3	7	A	13	15	23	27	66	39	33	32	25	22	30	21	10	11	22	21	15	33	47	13	6	23.3	65.7
15-Jan-07	4	A	6	6	9	10	12	13	14	12	10	12	8	13	9	7	11	10	16	9	8	6	4	9	9.5	16.4
16-Jan-07	A	5	5	3	5	4	8	11	12	9	6	7	6	10	C	C	C	C	C	A	8	6	12	3	N	12.2
17-Jan-07	6	12	A	23	24	30	29	32	26	23	32	24	16	10	10	16	20	21	18	39	43	27	23	33	23.3	42.6
18-Jan-07	28	10	A	10	15	34	47	83	39	19	9	8	8	7	7	10	27	18	11	10	19	14	11	9	19.7	83.4
19-Jan-07	9	A	6	6	15	13	18	39	40	37	47	26	7	7	10	9	12	14	18	20	32	26	21	16	19.4	46.5
20-Jan-07	A	23	24	37	34	27	17	23	32	21	14	14	13	10	12	9	11	9	9	12	12	12	20	A	18.0	37.1
21-Jan-07	46	25	23	34	17	15	26	11	12	15	11	9	10	6	5	6	9	6	5	4	9	10	A	13	14.3	45.5
22-Jan-07	8	4	3	3	2	6	13	13	26	21	8	10	10	5	4	4	5	10	9	4	5	A	13	3	8.1	26.3
23-Jan-07	2	4	3	2	3	4	9	20	37	39	33	53	55	29	8	21	30	21	56	95	A	27	17	9	25.1	94.9
24-Jan-07	17	11	8	6	11	10	10	12	13	9	10	6	7	7	8	8	9	9	12	A	12	15	7	5	9.7	17.0
25-Jan-07	9	4	3	3	10	3	7	11	10	11	6	5	5	5	9	6	12	14	A	7	12	9	5	4	7.3	14.3
26-Jan-07	6	5	5	6	5	10	14	19	13	15	10	6	7	6	6	5	4	A	6	4	3	4	4	4	7.2	18.6
27-Jan-07	5	6	12	15	28	21	23	31	49	47	29	16	6	3	3	3	A	25	20	10	6	10	11	6	16.7	49.0
28-Jan-07	5	11	11	11	11	11	10	15	24	13	7	6	5	3	2	A	6	5	6	9	11	6	8	9	8.9	24.4
29-Jan-07	8	8	8	9	14	18	29	45	84	78	38	7	4	3	A	5	6	8	18	32	34	48	17	12	23.3	84.4
30-Jan-07	23	6	3	3	6	4	7	9	22	20	22	12	7	A	12	12	5	6	5	4	3	3	2	4	8.6	22.7
31-Jan-07	3	2	4	4	5	11	13	13	18	14	15	13	A	9	9	10	14	12	11	11	12	5	3	1	9.1	17.6
Hourly Avg	13.3	10.5	10.1	11.6	11.6	11.7	15.6	21.5	22.6	19.9	16.4	13.4	10.0	9.0	8.1	8.5	10.8	12.9	12.4	13.8	13.0	13.4	12.7	9.2		
Hourly Max	84.7	52.8	38.8	59.7	43.5	33.6	46.9	83.4	84.4	77.9	47.9	53.1	55.4	30.3	20.9	21.2	29.6	31.4	55.8	94.9	42.6	47.8	75.6	74.0		

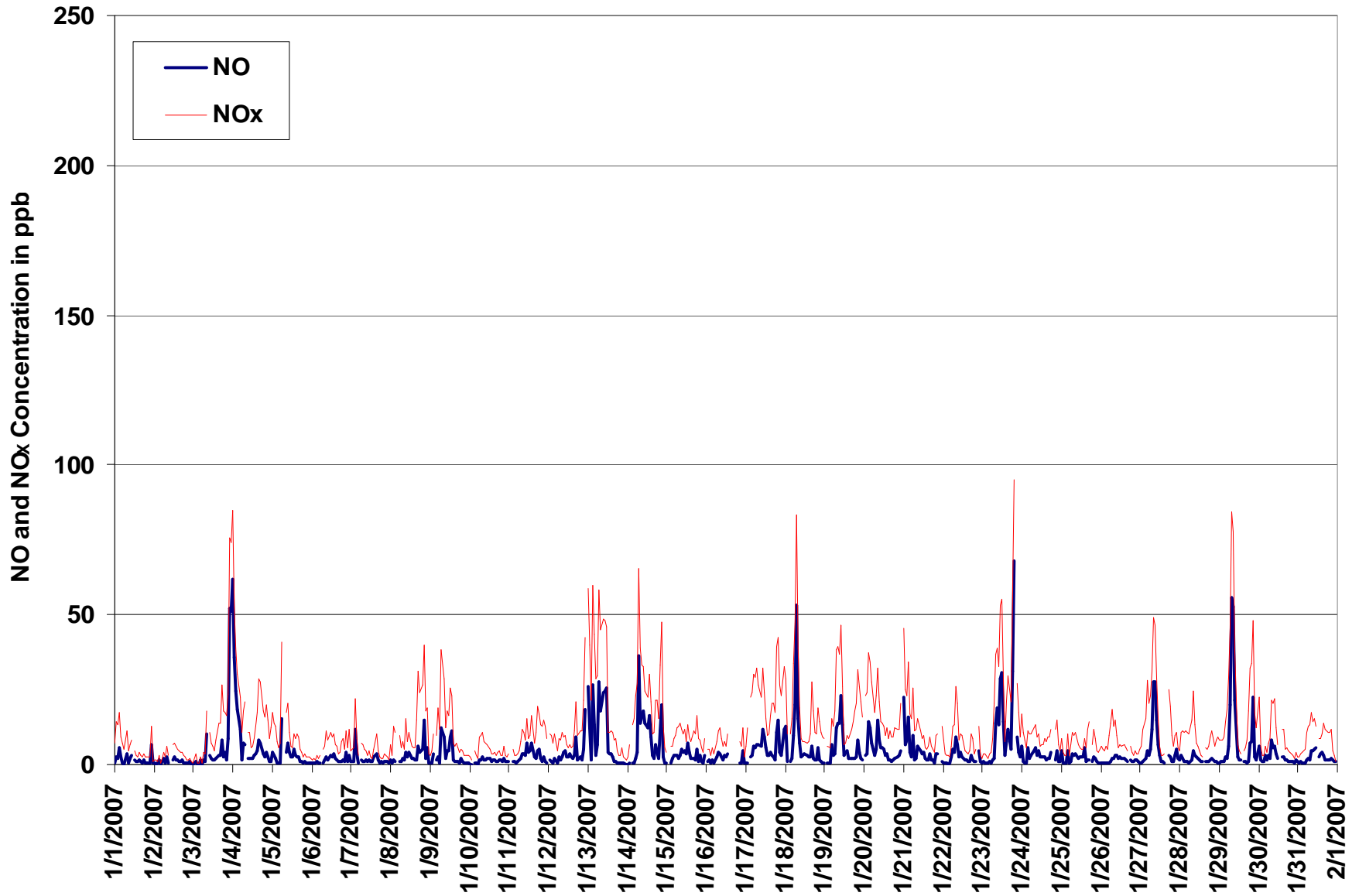


Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

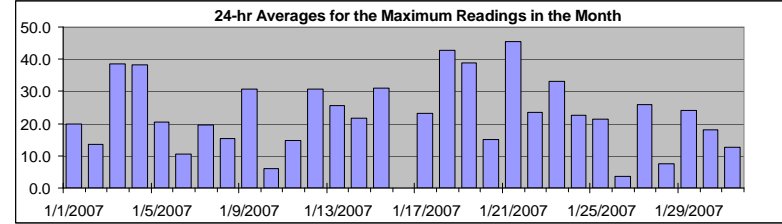
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: January 1, 2007 to February 1, 2007

Summary

Maximum 1-hr Value:	358.8	ppb	3-Jan	22:00 23:00
Maximum 24-hr Value:	45.5	ppb	21-Jan	



AIC Time:	33 hrs	Operational Time:	706 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	142.5	91.8	32.9	6.4	2.6	1.4	1.1	23.5 ppb	6.4 ppb

Status Flag Characters

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

Day Mountain Standard Time

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-Jan-07	2	6	9	94	73	5	2	42	2	18	11	A	7	2	2	51	2	2	41	1	8	1	74	2	19.8	94.4
2-Jan-07	1	1	1	41	1	38	35	2	43	2	A	3	60	3	2	2	2	33	2	2	2	1	34	2	13.5	59.6
3-Jan-07	1	25	2	1	33	1	24	3	106	A	20	7	3	4	4	5	8	88	8	63	4	50	359	66	38.5	358.8
4-Jan-07	75	143	103	111	150	6	69	54	A	6	3	3	3	11	6	33	31	18	7	7	12	25	3	3	38.4	150.0
5-Jan-07	46	10	8	1	2	2	53	A	36	105	51	4	4	63	5	4	37	3	3	2	2	2	16	14	20.6	105.2
6-Jan-07	1	1	1	36	1	2	A	2	6	7	5	6	6	7	5	4	2	2	3	9	2	44	27	60	10.4	60.5
7-Jan-07	3	2	109	85	2	A	53	2	2	28	2	47	3	2	38	43	6	2	2	2	7	5	3	1	19.5	109.0
8-Jan-07	6	2	4	4	A	3	4	5	4	6	7	8	6	5	17	2	3	28	20	31	37	6	145	1	15.4	144.8
9-Jan-07	1	2	83	A	39	12	4	59	32	12	17	15	50	208	4	11	2	13	2	81	36	1	19	2	30.6	208.0
10-Jan-07	16	1	A	23	24	1	4	4	8	3	3	4	3	3	11	3	2	3	3	3	4	11	3	2	6.1	24.0
11-Jan-07	5	A	4	2	2	3	4	10	6	6	5	24	12	9	11	21	18	43	83	19	3	46	2	2	14.7	83.1
12-Jan-07	A	17	8	2	28	2	33	3	5	70	50	12	4	45	25	4	21	94	18	54	3	83	92	A	30.6	93.8
13-Jan-07	65	49	6	84	38	8	21	88	92	47	37	45	6	5	6	4	2	2	1	2	2	3	2	1	25.6	91.6
14-Jan-07	1	1	A	2	2	4	12	129	30	24	22	25	40	27	13	7	4	29	15	6	32	63	8	3	21.7	128.6
15-Jan-07	2	A	1	46	91	52	40	12	19	72	45	33	33	63	23	12	4	3	47	6	62	4	2	43	31.0	91.4
16-Jan-07	A	2	66	2	34	2	43	109	99	48	3	53	33	31	C	C	C	C	C	A	8	2	73	2	N	109.2
17-Jan-07	1	2	A	7	6	29	43	15	21	10	15	11	8	6	7	8	5	5	5	64	149	11	7	103	23.3	149.0
18-Jan-07	128	2	A	2	5	20	42	297	96	110	4	15	41	44	4	5	9	6	3	5	134	6	3	2	42.7	296.9
19-Jan-07	1	A	2	2	95	63	37	128	118	41	39	107	42	100	62	5	3	5	5	5	22	8	4	3	39.0	128.3
20-Jan-07	A	22	35	76	56	12	9	12	26	16	7	7	8	4	5	3	2	2	3	4	4	7	14	A	15.2	75.8
21-Jan-07	123	14	62	101	66	18	71	2	32	89	47	4	36	3	2	22	110	40	34	3	82	79	A	4	45.5	123.3
22-Jan-07	3	3	15	1	1	78	127	31	32	50	8	73	5	4	2	2	2	62	3	2	2	A	30	2	23.4	126.6
23-Jan-07	1	3	1	1	3	3	4	6	27	67	19	75	45	25	31	19	39	35	73	197	A	19	12	57	33.1	197.3
24-Jan-07	75	4	2	2	81	16	30	70	58	4	31	5	5	4	3	3	6	4	50	A	3	62	2	1	22.7	81.1
25-Jan-07	76	2	6	1	65	2	3	27	34	15	9	34	12	30	136	3	4	4	A	3	13	12	2	1	21.4	135.7
26-Jan-07	1	2	3	3	1	1	2	4	3	4	6	6	6	4	13	4	2	A	2	2	3	3	2	2	3.5	13.0
27-Jan-07	2	1	2	5	10	15	12	89	71	120	39	12	45	2	2	2	A	6	9	3	3	23	70	49	25.8	120.3
28-Jan-07	38	36	21	3	2	2	2	17	8	8	3	5	3	2	2	A	2	2	2	3	5	3	3	2	7.4	38.3
29-Jan-07	2	2	4	2	7	6	15	80	75	129	91	5	3	3	A	3	3	2	3	27	13	71	7	3	24.1	129.5
30-Jan-07	50	11	29	17	92	23	40	5	51	14	9	14	14	A	6	7	3	14	2	3	3	2	1	3	18.0	91.9
31-Jan-07	2	2	2	2	1	38	33	5	20	30	28	24	A	5	38	38	5	2	2	3	3	3	2	2	12.7	38.2
Hourly Avg	26.1	13.0	21.8	25.3	33.7	15.5	29.0	43.7	38.7	38.8	21.3	22.7	18.2	24.1	16.8	11.4	11.7	18.9	15.6	21.1	22.1	21.8	33.9	15.1		
Hourly Max	127.9	142.8	109.0	111.4	150.0	78.1	126.6	296.9	118.4	129.5	91.0	106.6	59.6	208.0	135.7	50.7	110.0	93.8	83.1	197.3	149.0	83.4	358.8	102.5		



Station: Crescent Heights
 Station Owner: PAS

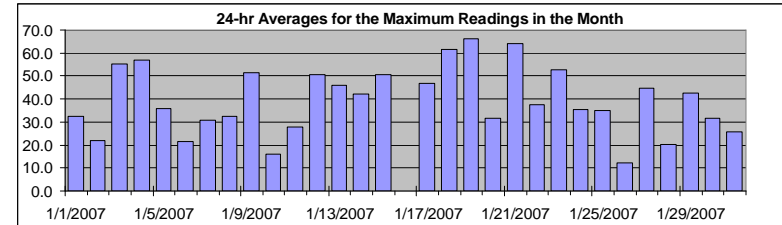
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: January 1, 2007 to February 1, 2007

Summary

Maximum 1-hr Value:	407.0	ppb	3-Jan	22:00 23:00
Maximum 24-hr Value:	66.3	ppb	19-Jan	



AIC Time:	33 hrs	Operational Time:	706 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	181.0	129.1	56.8	21.8	10.1	4.2	2.6	39.7 ppb	21.8 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jan-07	11	20	27	125	102	17	8	63	6	35	24	A	17	4	3	76	5	4	74	4	11	4	101	3	32.4	125.2
2-Jan-07	4	3	2	60	2	70	52	5	63	6	A	9	89	7	7	7	5	47	4	5	3	3	44	3	21.8	89.4
3-Jan-07	2	48	7	2	48	2	41	10	142	A	39	18	10	13	15	18	25	121	27	90	22	72	407	89	55.0	407.0
4-Jan-07	100	169	124	131	183	17	97	73	A	21	14	9	10	24	20	59	56	44	23	26	34	44	15	16	57.0	182.8
5-Jan-07	69	30	27	11	12	13	87	A	73	150	81	9	8	86	12	15	57	9	7	4	6	5	26	26	35.7	149.6
6-Jan-07	2	3	3	56	4	7	A	7	21	23	16	20	20	20	18	16	4	5	21	17	7	69	41	87	21.3	87.0
7-Jan-07	15	8	140	110	4	A	81	9	8	35	5	81	4	4	57	64	18	4	3	4	21	16	15	3	30.8	140.1
8-Jan-07	22	10	21	18	A	19	21	15	12	22	21	19	16	14	33	8	22	63	52	60	65	23	182	7	32.4	181.6
9-Jan-07	5	10	138	A	69	43	23	96	67	35	42	34	79	242	10	24	11	23	6	112	62	5	42	8	51.5	242.0
10-Jan-07	43	3	A	60	64	4	14	14	22	10	9	10	7	6	20	6	5	8	9	6	12	25	5	5	15.9	64.4
11-Jan-07	13	A	12	4	5	6	8	20	14	14	12	43	22	17	24	39	33	74	107	43	18	78	19	13	27.8	107.2
12-Jan-07	A	36	29	13	56	9	57	14	15	98	74	21	8	67	48	10	40	127	38	79	15	133	128	A	50.7	132.6
13-Jan-07	105	81	32	136	74	37	49	133	127	77	64	73	16	15	15	12	10	10	9	5	5	9	5	3	45.9	135.6
14-Jan-07	5	9	A	18	18	29	40	167	59	42	41	42	63	45	25	18	23	61	44	23	63	100	27	10	42.4	167.3
15-Jan-07	8	A	9	64	130	80	63	33	42	94	67	57	63	98	38	19	15	14	78	23	91	14	8	61	50.8	129.8
16-Jan-07	A	7	109	4	54	5	67	140	139	69	10	79	45	53	C	C	C	C	C	A	19	9	107	6	N	139.7
17-Jan-07	12	19	A	28	32	56	82	44	42	30	38	29	20	15	14	29	27	34	32	97	184	37	31	146	46.9	184.0
18-Jan-07	156	14	A	14	23	48	75	323	120	146	11	23	63	64	10	14	36	31	14	17	161	26	15	12	61.6	322.7
19-Jan-07	11	A	9	12	135	97	70	198	165	69	68	154	80	137	87	14	13	27	28	27	49	30	24	21	66.3	197.5
20-Jan-07	A	45	63	115	81	32	27	32	49	32	18	15	17	12	16	11	14	12	12	17	15	19	41	A	31.6	114.5
21-Jan-07	160	34	85	120	97	43	91	15	41	127	65	10	56	8	6	32	135	53	55	8	110	102	A	19	64.0	159.9
22-Jan-07	17	8	25	5	4	102	163	60	64	81	11	102	15	11	5	5	6	89	14	5	10	A	60	4	37.7	162.7
23-Jan-07	3	15	7	5	15	15	20	33	55	87	41	105	72	45	49	41	66	54	101	243	A	41	30	74	52.9	243.2
24-Jan-07	99	20	11	8	103	25	49	100	84	12	45	9	9	9	11	9	16	14	69	A	14	85	9	6	35.5	103.0
25-Jan-07	99	7	5	6	96	5	12	48	56	32	17	49	20	54	141	10	21	29	A	10	38	37	6	8	35.2	141.4
26-Jan-07	10	10	8	9	7	13	19	29	18	20	18	15	16	10	22	11	6	A	11	5	6	7	5	6	12.2	28.9
27-Jan-07	8	9	16	22	34	38	33	115	97	167	63	25	61	5	6	8	A	33	40	14	10	48	106	74	44.9	167.2
28-Jan-07	63	55	41	13	16	13	12	40	35	28	10	14	10	4	4	A	8	7	8	19	23	12	12	14	20.1	62.6
29-Jan-07	11	10	13	12	23	30	42	105	107	168	130	11	7	6	A	10	8	13	27	59	40	102	25	18	42.5	168.4
30-Jan-07	78	32	51	41	115	42	58	17	72	30	27	29	20	A	20	26	10	22	6	6	6	5	3	8	31.5	114.7
31-Jan-07	5	4	5	10	7	64	44	21	44	57	57	38	A	16	50	63	23	18	14	18	20	10	5	3	25.8	64.0
Hourly Avg	40.6	25.6	37.7	41.1	53.8	32.7	50.2	66.0	62.0	60.6	37.9	38.5	31.5	37.1	27.1	23.1	24.7	36.2	32.3	36.1	37.9	38.9	51.4	26.0		
Hourly Max	159.9	168.7	140.1	135.6	182.8	101.6	162.7	322.7	164.8	168.4	129.6	154.3	89.4	242.0	141.4	75.6	134.9	126.9	107.2	243.2	184.0	132.6	407.0	146.1		

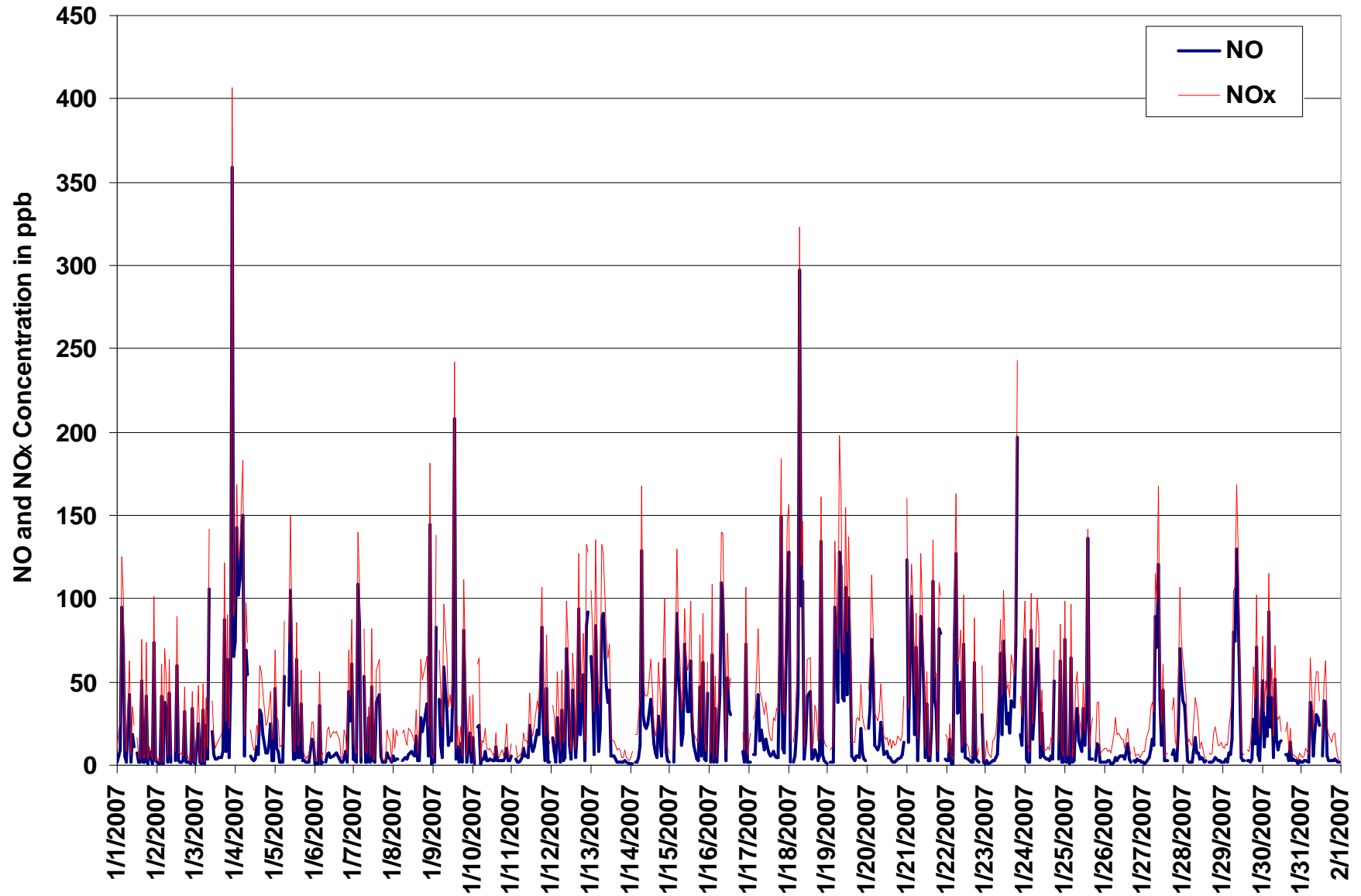


Figure 4. PAS - Crescent Heights Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend



PAS - Crescent Heights - Ozone Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

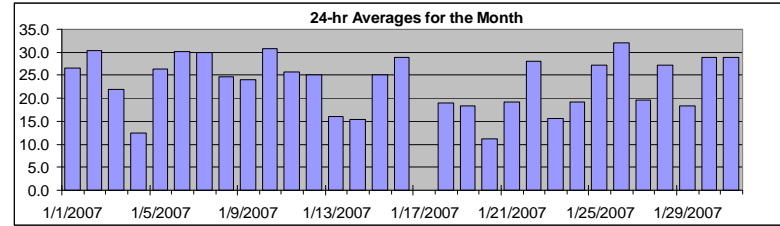
HOURLY AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: January 1, 2007 to February 1, 2007

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

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	37.7 ppb	28-Jan	14:00 15:00
Maximum 24-hr Average:	32.0 ppb	26-Jan	



AIC Time:	33 hrs	Operational Time:	704 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	99.3%						
Percentile	99	95	75	50	25	5	1	Average	Median
	37.0	35.3	30.8	25.9	17.3	4.0	1.6	23.3 ppb	25.9 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-Jan-07	16	9	11	12	19	20	22	21	24	26	28	A	36	36	36	35	34	33	32	32	33	32	29	34	26.6	35.6	
2-Jan-07	32	32	33	33	33	33	31	31	30	29	A	29	29	28	29	28	29	29	30	30	30	32	31	31	30.4	33.0	
3-Jan-07	32	29	32	33	32	32	31	30	25	A	26	29	30	31	27	20	17	8	10	11	9	8	1	1	21.9	32.9	
4-Jan-07	1	2	2	3	3	6	7	5	A	21	20	25	26	24	21	18	11	8	13	13	11	15	19	12	12.4	26.1	
5-Jan-07	11	15	16	23	28	29	11	A	21	22	30	33	31	29	28	27	28	32	32	33	32	33	33	33	26.5	33.3	
6-Jan-07	31	32	33	32	32	30	A	30	28	24	26	28	32	33	35	35	36	35	30	27	29	27	30	23	30.2	35.9	
7-Jan-07	28	25	21	25	27	A	27	25	27	30	32	33	34	35	33	30	30	32	32	33	31	32	33	33	30.0	34.7	
8-Jan-07	26	26	17	18	A	27	36	34	35	27	33	31	33	36	34	24	11	13	10	4	11	16	30	24.7	36.0		
9-Jan-07	28	27	26	A	25	14	19	7	11	17	16	18	13	22	27	28	27	29	31	32	32	33	33	34	24.0	33.8	
10-Jan-07	36	37	A	38	36	36	23	22	22	24	24	24	27	30	33	32	32	31	31	33	34	33	35	34	30.7	37.7	
11-Jan-07	33	A	32	33	32	32	32	28	25	25	27	26	28	27	24	27	23	17	19	20	19	19	20	26	25.8	33.2	
12-Jan-07	A	27	27	29	27	31	29	28	26	29	29	29	29	29	29	26	22	18	22	21	20	16	8	A	25.2	30.8	
13-Jan-07	2	4	9	2	3	5	6	3	4	7	7	12	24	24	24	24	24	23	30	32	30	27	29	31	16.0	32.2	
14-Jan-07	29	25	A	18	14	7	5	1	3	10	14	18	20	19	21	26	22	17	14	16	8	5	18	22	15.4	29.4	
15-Jan-07	24	A	24	25	23	22	21	19	20	24	26	27	30	29	30	29	25	25	22	25	26	27	29	27	25.1	29.9	
16-Jan-07	A	32	32	31	29	30	28	26	27	29	33	33	34	31	31	26	21	20	26	29	29	29	27	33	28.9	33.8	
17-Jan-07	28	19	A	8	6	4	7	6	M	M	M	M	M	C	C	A	20	19	18	6	2	5	6	7	N	27.8	
18-Jan-07	12	18	A	20	16	6	4	2	10	22	28	30	30	31	30	27	14	18	22	22	16	16	21	22	19.0	30.8	
19-Jan-07	24	A	27	26	23	22	17	8	8	11	12	23	33	32	30	28	24	21	15	8	4	6	8	12	18.4	32.5	
20-Jan-07	A	6	3	4	2	1	6	4	3	8	12	13	15	17	17	21	19	22	21	16	14	12	6	A	11.1	22.3	
21-Jan-07	2	3	6	3	9	9	6	12	13	16	19	23	27	32	33	32	30	31	31	30	27	25	A	21	19.1	33.5	
22-Jan-07	25	29	30	29	31	29	26	26	17	22	30	30	28	32	32	33	30	26	25	30	28	A	25	30	27.9	32.8	
23-Jan-07	30	30	27	30	29	28	24	12	6	9	9	5	5	16	24	14	10	12	3	2	A	5	10	16	15.5	30.4	
24-Jan-07	11	13	16	17	17	15	17	18	19	20	21	23	25	26	25	25	21	19	17	A	16	16	19	23	19.2	25.7	
25-Jan-07	22	24	25	28	26	30	26	26	25	25	28	27	28	29	29	31	26	24	A	32	24	28	31	33	27.2	32.6	
26-Jan-07	31	33	33	31	31	28	24	21	26	26	32	38	37	38	36	37	37	A	35	34	33	32	32	31	32.0	37.7	
27-Jan-07	26	22	18	14	4	9	5	4	3	7	15	23	31	36	37	36	A	16	19	24	26	26	27	26	19.7	36.9	
28-Jan-07	23	17	17	19	19	22	24	21	16	28	34	36	36	37	38	A	37	34	31	29	28	30	28	26	27.2	37.7	
29-Jan-07	25	23	23	21	18	13	6	4	3	5	17	32	36	37	A	36	34	29	19	7	2	3	12	18	18.4	37.2	
30-Jan-07	14	31	33	33	31	31	27	20	12	13	16	28	33	A	30	30	37	36	36	36	36	35	35	33	28.9	36.9	
31-Jan-07	34	35	33	32	32	26	25	23	22	25	27	29	A	32	31	29	23	22	24	26	28	33	35	36	28.9	36.4	
Hourly Avg	22.8	22.2	22.4	22.3	21.9	20.8	19.0	17.2	17.7	20.0	23.1	26.1	28.3	29.6	29.5	28.4	25.6	23.2	23.4	23.3	22.0	21.7	23.0	25.5			
Hourly Max	36.2	37.2	33.3	37.7	36.1	35.9	35.6	33.8	35.1	30.5	33.6	37.6	37.1	37.7	37.7	37.0	36.9	35.8	35.7	35.7	36.0	34.6	35.3	36.4			

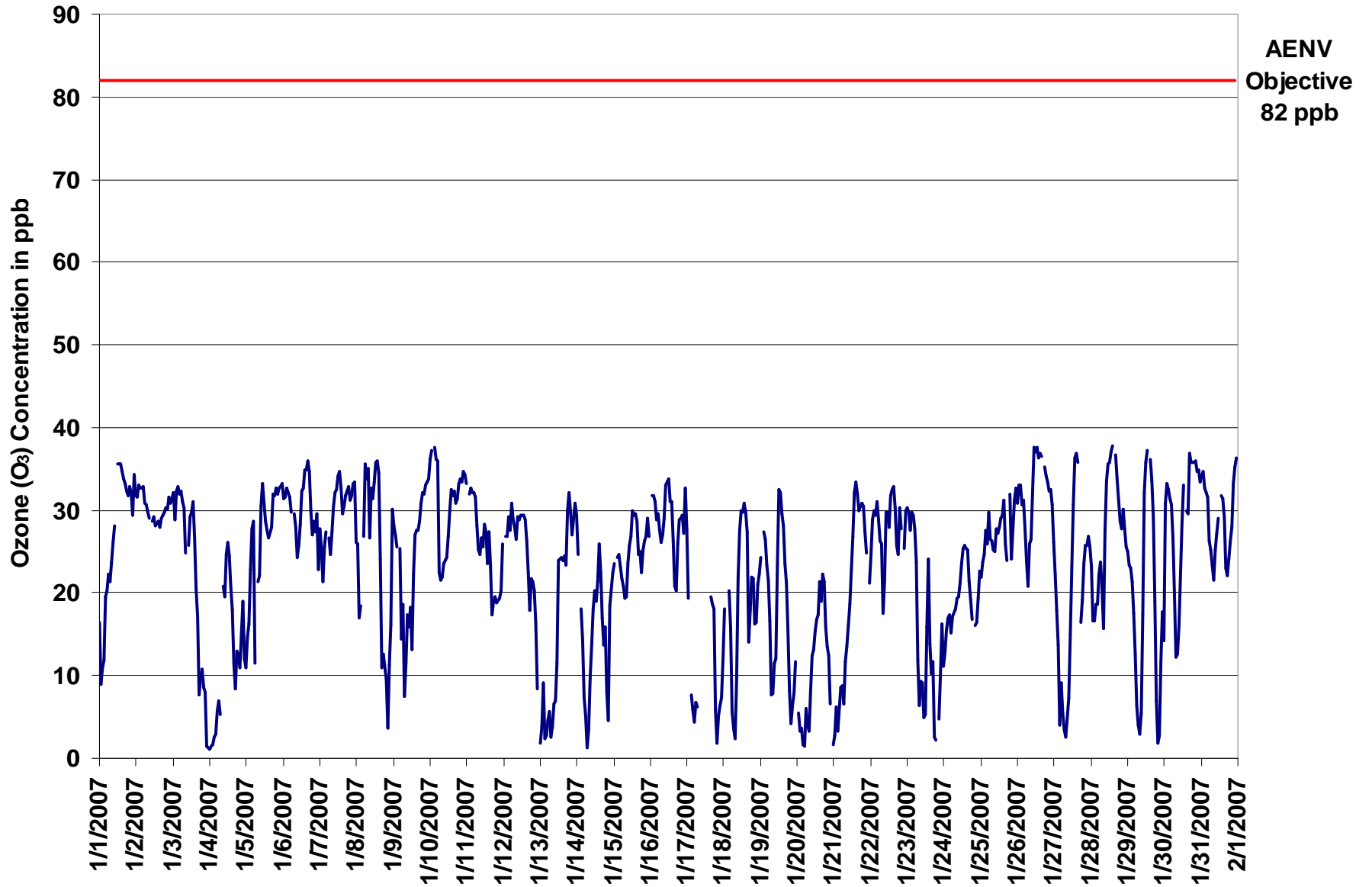


Figure 5. PAS - Crescent Heights Ozone 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

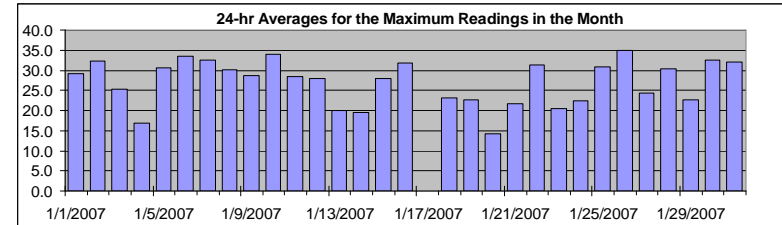
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: January 1, 2007 to February 1, 2007

Summary

Maximum 1-hr Value:	44.9	ppb	10-Jan	6:00 7:00
Maximum 24-hr Value:	35.0	ppb	26-Jan	



AIC Time:	33 hrs	Operational Time:	704 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	99.3%						
Percentile	99	95	75	50	25	5	1	Average	Median
	39.2	37.6	33.3	29.7	22.5	9.1	4.1	26.9 ppb	29.7 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-Jan-07	19	14	14	19	23	23	25	24	26	31	32	A	37	37	37	36	35	35	34	33	35	34	35	36	29.3	36.8
2-Jan-07	34	33	36	36	35	34	34	33	33	31	A	30	31	30	31	30	31	31	32	32	31	33	32	33	32.4	36.5
3-Jan-07	33	32	34	34	33	33	34	32	30	A	31	32	32	33	33	25	22	13	14	15	11	17	6	2	25.4	34.4
4-Jan-07	2	6	4	8	6	10	14	10	A	25	23	30	28	28	26	24	20	15	20	17	15	22	22	16	17.0	29.9
5-Jan-07	19	19	20	26	34	35	24	A	27	32	35	35	32	31	30	29	32	35	33	35	34	35	34	35	30.5	35.1
6-Jan-07	33	33	34	34	33	31	A	32	31	30	28	35	38	39	39	37	37	36	36	29	30	33	32	31	33.5	38.8
7-Jan-07	30	30	31	30	29	A	30	28	30	33	33	35	35	36	35	33	34	33	34	34	34	34	35	34	32.6	35.8
8-Jan-07	33	27	26	23	A	32	39	39	37	33	37	36	38	39	38	37	33	24	21	15	11	17	29	32	30.2	39.0
9-Jan-07	31	30	29	A	29	22	24	17	23	24	25	26	20	31	29	30	31	31	33	34	35	34	35	38	28.7	37.6
10-Jan-07	38	39	A	39	38	44	45	24	28	26	26	26	29	34	34	33	34	33	34	35	35	36	37	36	34.0	44.9
11-Jan-07	35	A	34	34	33	34	34	32	28	27	29	29	30	30	27	29	27	22	22	23	22	23	24	28	28.5	35.1
12-Jan-07	A	29	29	32	31	33	31	30	29	31	31	31	31	31	31	29	25	23	24	24	23	22	15	A	28.0	33.2
13-Jan-07	5	13	15	6	8	9	12	11	9	12	12	23	26	26	26	26	26	25	34	34	32	30	30	32	20.1	34.5
14-Jan-07	31	28	A	21	17	18	10	3	7	11	15	23	23	21	25	29	27	25	18	20	16	14	24	25	19.6	31.2
15-Jan-07	25	A	26	26	26	25	24	23	23	28	28	31	32	33	32	31	27	27	27	28	28	29	31	31	27.9	32.5
16-Jan-07	A	34	34	33	31	31	31	29	30	31	36	36	36	34	34	31	25	27	30	32	32	31	31	34	31.8	36.4
17-Jan-07	35	25	A	10	9	9	12	10	M	M	M	M	M	C	C	A	24	27	26	11	7	10	13	12	N	34.5
18-Jan-07	17	21	A	23	20	17	11	6	17	26	31	31	32	33	32	30	24	22	24	24	21	21	24	25	23.0	32.7
19-Jan-07	29	A	29	29	27	25	25	15	13	15	17	33	35	35	32	32	26	27	18	15	8	10	12	16	22.7	35.3
20-Jan-07	A	10	5	7	4	2	10	8	8	13	14	15	17	20	22	24	23	25	26	21	16	15	11	A	14.3	25.8
21-Jan-07	6	5	11	7	12	11	10	13	16	18	22	25	31	34	35	34	32	32	33	33	30	28	A	24	21.7	34.8
22-Jan-07	29	30	32	31	32	32	29	31	28	30	33	33	31	33	35	34	32	30	32	32	30	A	30	31	31.4	34.6
23-Jan-07	32	33	32	33	32	32	27	18	15	13	16	8	10	26	26	21	16	17	10	4	A	10	19	20	20.4	33.2
24-Jan-07	15	19	20	19	21	19	21	23	24	22	23	25	27	28	28	27	24	23	20	A	17	19	24	25	22.4	28.3
25-Jan-07	26	27	26	31	32	32	31	30	31	28	30	29	30	31	32	34	32	33	A	34	31	32	33	35	30.8	35.0
26-Jan-07	34	36	35	33	33	32	28	27	29	31	39	41	41	41	40	40	38	A	37	36	35	34	34	32	35.0	40.8
27-Jan-07	31	27	23	19	9	14	12	7	7	11	19	30	36	38	38	38	A	30	27	27	29	30	31	28	24.3	38.4
28-Jan-07	25	21	19	22	21	25	25	24	26	32	37	38	38	38	39	A	38	37	33	35	34	33	31	29	30.4	39.2
29-Jan-07	27	26	25	24	22	17	13	7	4	8	27	36	39	39	A	38	35	34	27	16	4	8	22	23	22.7	38.9
30-Jan-07	22	35	35	34	34	34	31	26	18	17	28	33	35	A	33	36	39	38	37	37	38	36	36	35	32.5	39.0
31-Jan-07	35	36	35	37	33	34	31	27	26	28	30	33	A	33	34	33	30	25	26	29	33	35	37	38	32.0	37.7
Hourly Avg	26.1	25.6	25.5	25.3	24.9	24.9	24.2	21.4	22.5	24.1	27.1	29.9	31.1	32.4	32.2	31.4	29.3	27.8	27.4	26.4	25.3	25.4	26.9	28.1		
Hourly Max	37.5	38.7	35.7	39.2	37.6	43.6	44.9	38.5	37.4	33.1	38.7	40.8	40.6	40.8	39.9	39.9	39.0	38.0	37.2	37.3	37.7	36.2	36.6	37.7		

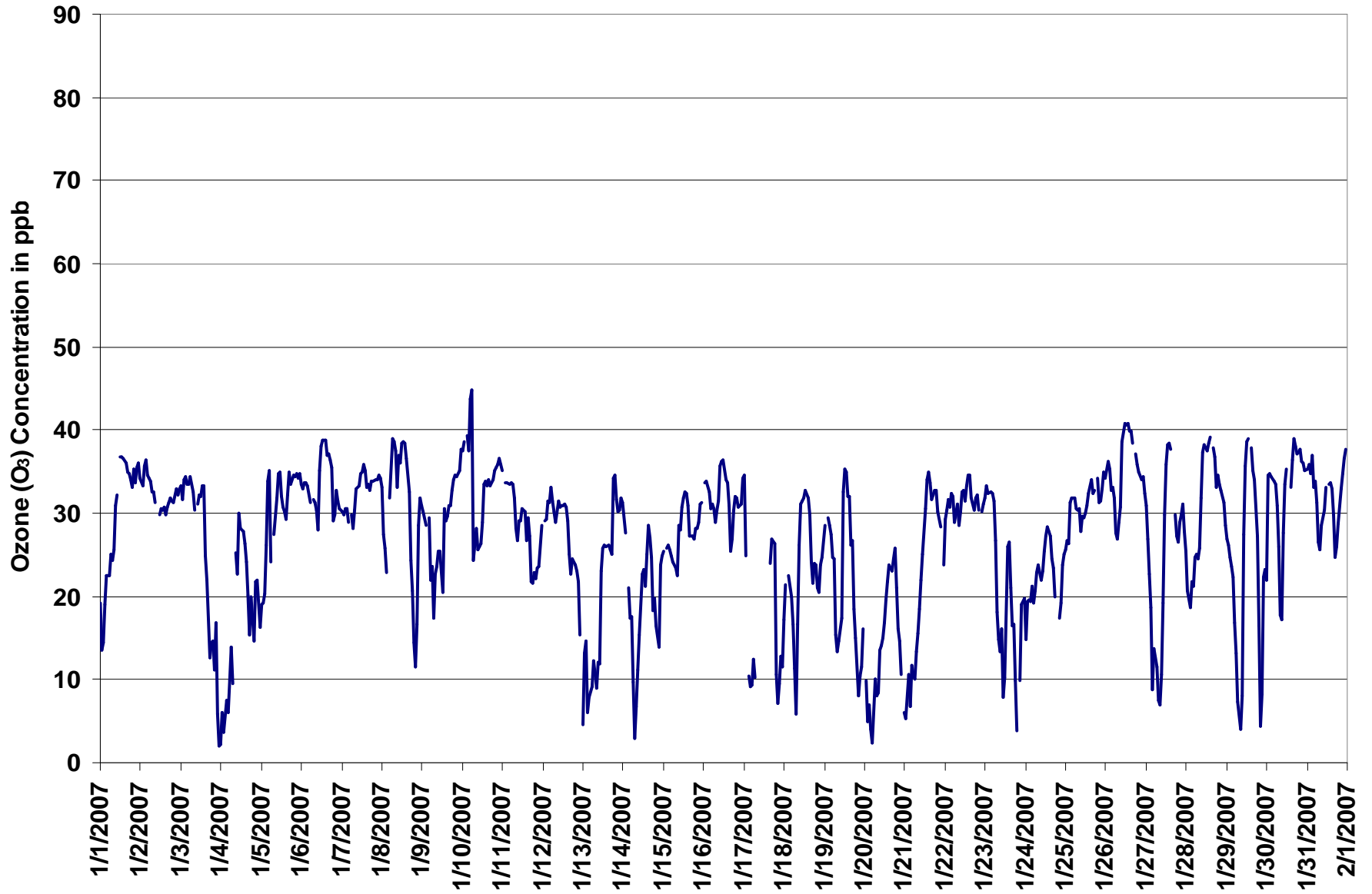
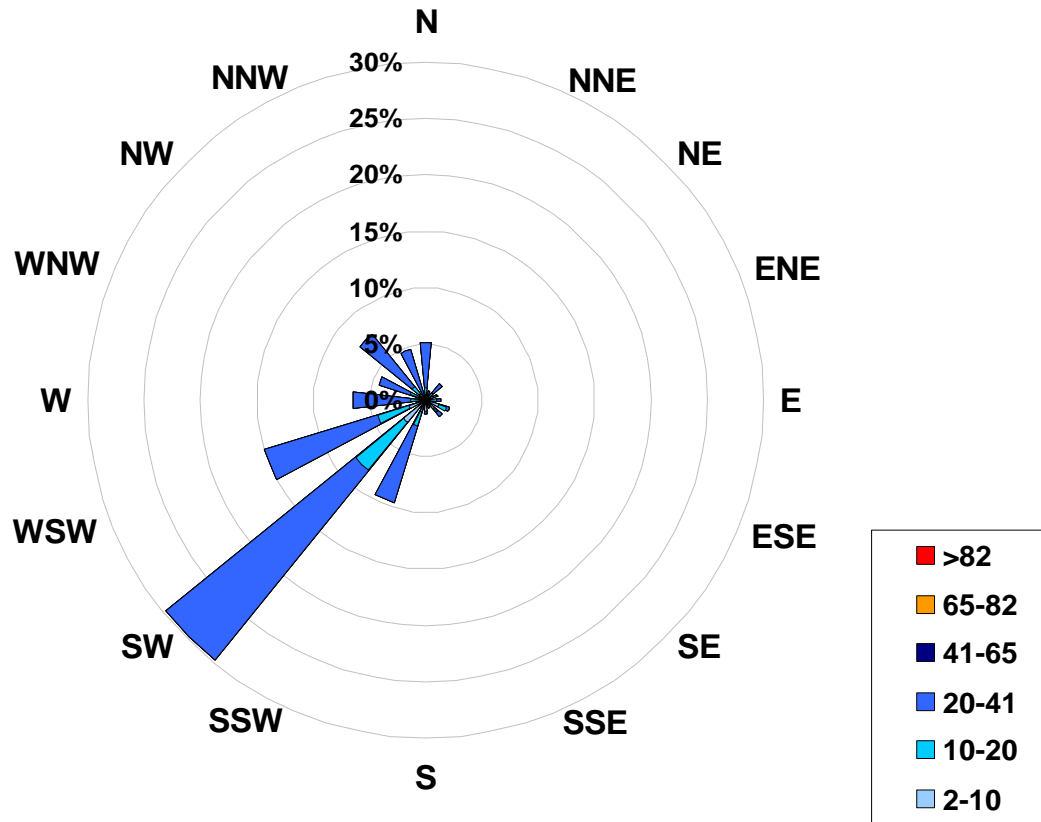


Figure 6. PAS - Crescent Heights Ozone Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Ozone (in ppb) Located at the Crescent Heights Site for January 2007



Calms: 0%

Frequency Distribution of O ₃ in ppb			
Range		Frequency (hrs)	
2.0	< 10	96	
10	to 20	124	
20	to 41	484	
41	to 65	0	
65	to 82	0	
	> 82	0	
Total Non-Zero Values			704



PAS - Crescent Heights - Ozone Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

EIGHT HOUR RUNNING AVERAGE TABLE

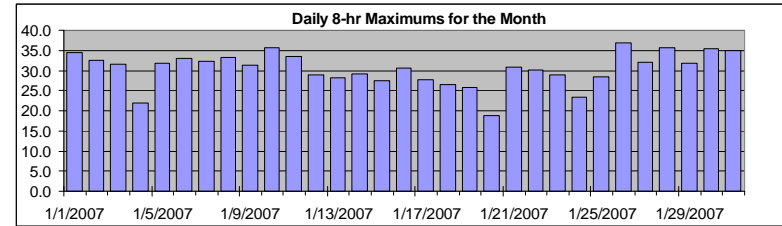
Ozone (O₃)

Monitoring Dates: January 1, 2007 to February 1, 2007

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

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	36.8	ppb	26-Jan	18:00	19:00		

Percentile	99	95	75	50	25	5	1
	35.4	33.3	29.2	25.9	18.0	8.0	3.9



Status Flag Characters

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

Day	Mountain Standard Time																							Daily Maximum			
Hour Start	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-Jan-07	11	11	11	10	11	13	15	16	17	20	22	23	25	28	29	31	33	34	34	34	34	33	32	32		34.4	
2-Jan-07	32	32	32	32	32	32	32	32	32	31	31	31	30	29	29	29	29	29	29	29	29	29	30	30	30		32.5
3-Jan-07	31	31	31	31	31	32	32	31	31	31	30	29	29	29	28	27	26	23	21	19	17	14	11	8		31.6	
4-Jan-07	6	5	4	3	3	2	3	3	4	7	9	12	16	18	20	22	21	19	18	17	15	14	14	13		22.0	
5-Jan-07	13	14	14	15	17	19	18	19	20	21	24	25	25	25	28	28	28	30	30	30	30	30	31	32		31.9	
6-Jan-07	32	32	32	32	32	32	32	31	31	30	29	28	28	29	29	30	31	32	33	33	32	32	31	29		32.9	
7-Jan-07	28	27	26	26	26	26	25	26	26	26	28	29	30	30	31	32	32	32	32	32	32	32	32	32		32.3	
8-Jan-07	32	31	29	27	27	26	26	26	28	28	30	32	32	33	33	33	32	30	27	25	21	18	15	15		33.2	
9-Jan-07	15	17	19	20	23	24	24	21	19	17	16	16	15	16	17	19	21	23	24	26	29	30	31	31		31.4	
10-Jan-07	32	34	34	35	35	36	34	32	30	28	28	26	25	24	26	27	28	29	30	31	32	32	33	33		35.7	
11-Jan-07	33	33	34	33	33	33	33	32	31	30	29	28	28	27	26	26	26	25	24	23	22	21	21	20		33.5	
12-Jan-07	20	21	23	24	25	27	28	28	28	28	29	29	29	29	29	28	28	27	26	25	24	22	19	18		28.8	
13-Jan-07	15	13	12	9	6	5	4	4	4	5	4	6	8	11	13	16	18	20	23	26	26	27	27	28		28.3	
14-Jan-07	29	29	29	27	25	22	19	14	11	8	9	9	10	11	13	16	19	20	20	20	19	18	16	15		29.1	
15-Jan-07	15	15	17	18	20	23	23	23	22	22	22	23	23	24	26	27	27	27	27	27	27	26	26	26		27.5	
16-Jan-07	26	27	28	29	29	30	30	30	29	29	29	29	30	30	31	31	30	29	28	27	27	26	26	27		30.6	
17-Jan-07	28	28	28	25	21	18	15	11	N	N	N	N	N	N	N	N	N	N	N	N	N	N	11	10		27.8	
18-Jan-07	9	9	8	10	12	12	12	11	11	11	13	15	16	19	23	26	26	26	25	24	22	21	20	19		26.4	
19-Jan-07	20	21	21	22	23	24	23	21	19	18	16	15	17	18	20	22	24	25	26	24	20	17	14	12		25.7	
20-Jan-07	11	8	7	6	6	5	5	4	4	4	5	6	8	10	11	13	15	17	18	19	18	18	17	16		18.7	
21-Jan-07	13	11	8	7	6	5	5	6	8	9	11	13	16	18	22	24	26	28	30	31	31	30	29	28		30.8	
22-Jan-07	27	27	27	27	27	28	28	28	27	26	26	26	26	26	27	28	30	30	29	30	29	29	28	28		30.1	
23-Jan-07	28	28	29	29	29	29	29	26	23	21	18	15	12	11	11	11	12	12	11	11	11	10	8	8		28.9	
24-Jan-07	8	9	10	12	13	14	15	15	17	17	18	19	20	21	22	23	23	23	23	23	21	20	19	19		23.4	
25-Jan-07	19	20	21	22	23	24	25	26	26	26	27	27	27	27	27	28	28	28	28	28	28	28	28	28		28.5	
26-Jan-07	29	30	31	30	31	31	30	29	28	27	27	28	29	30	32	34	35	36	37	36	36	35	34	34		36.8	
27-Jan-07	32	31	29	26	22	20	16	13	10	8	8	9	12	15	19	23	26	28	28	28	28	26	25	23		32.0	
28-Jan-07	23	23	23	22	21	21	21	20	19	20	23	25	27	29	30	32	35	36	35	34	33	32	31	30		35.7	
29-Jan-07	29	27	26	26	24	22	19	17	14	12	11	12	15	18	19	24	28	32	32	28	23	19	18	15		31.8	
30-Jan-07	13	13	15	18	22	25	27	27	27	25	23	22	22	21	22	23	27	30	33	34	34	34	35	35		35.4	
31-Jan-07	35	35	34	34	33	32	31	30	28	27	27	26	25	26	27	28	28	28	27	27	27	28	29		35.0		

Hourly Max 35.0 34.9 34.5 34.7 35.3 35.7 34.2 32.4 31.8 31.4 31.2 31.7 31.9 33.1 33.1 33.8 35.1 36.4 36.8 36.3 35.8 35.0 34.9 35.4



PAS - Crescent Heights - Carbon Monoxide Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

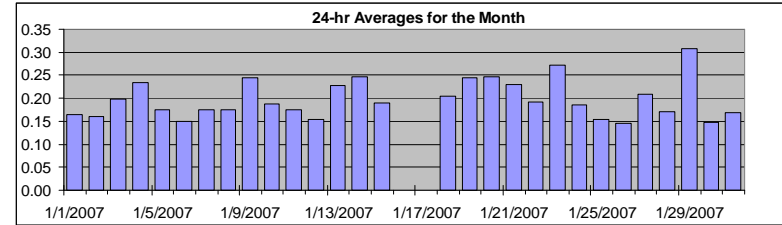
Carbon Monoxide (CO)

Monitoring Dates: January 1, 2007 to February 1, 2007

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

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	1.2	ppm	29-Jan	8:00 9:00
Maximum 24-hr Value:	0.3	ppm	29-Jan	

AIC Time:	32 hrs		Operational Time:	689 hrs					
Calibration Time:	5 hrs		AMD Operational Uptime:	97.6%					
Percentile	99	95	75	50	25	5	1	Average	Median
	0.6	0.3	0.2	0.2	0.2	0.1	0.1	0.2 ppm	0.2 ppm



Status Flag Characters

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

Day	Mountain Standard Time																							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-Jan-07	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	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	0.16	0.19
2-Jan-07	0.2	0.2	0.1	0.1	0.1	0.1	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.16	0.19
3-Jan-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.6	0.20	0.56	
4-Jan-07	0.6	0.3	0.2	0.2	0.2	0.2	0.2	0.3	A	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	0.1	0.2	0.23	0.64	
5-Jan-07	0.2	0.2	0.2	0.2	0.2	0.1	0.3	A	0.3	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	0.18	0.28	
6-Jan-07	0.1	0.2	0.2	0.2	0.1	0.1	A	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.15	0.18	
7-Jan-07	0.2	0.2	0.2	0.2	0.1	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	0.1	0.1	0.1	0.1	0.18	0.21	
8-Jan-07	0.1	0.1	0.2	0.1	A	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.1	0.18	0.31	
9-Jan-07	0.1	0.1	0.1	A	0.1	0.2	0.2	0.7	0.6	0.3	0.3	0.3	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	0.24	0.73	
10-Jan-07	0.2	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	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.19	0.25	
11-Jan-07	0.1	A	0.2	0.1	0.2	0.1	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	0.17	0.25	
12-Jan-07	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	A	0.15	0.34	
13-Jan-07	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.23	0.40	
14-Jan-07	0.1	0.1	A	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.4	0.2	0.2	0.25	0.43	
15-Jan-07	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.25	
16-Jan-07	A	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	C	C	M	M	M	M	M	M	M	M	M	M	N	0.22	
17-Jan-07	M	M	M	M	M	M	M	M	M	C	C	C	A	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	N	0.29	
18-Jan-07	0.2	0.2	A	0.1	0.2	0.2	0.3	0.5	0.4	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.46	
19-Jan-07	0.2	A	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.5	0.3	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	0.24	0.47	
20-Jan-07	A	0.2	0.2	0.3	0.3	0.3	0.2	0.2	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	0.3	A	0.25	0.37	
21-Jan-07	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.23	0.29	
22-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.1	0.19	0.38		
23-Jan-07	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.5	0.3	0.3	0.4	0.5	0.3	0.2	0.3	0.3	0.3	0.5	0.6	A	0.2	0.2	0.2	0.2	0.27	0.64	
24-Jan-07	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	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.19	0.25	
25-Jan-07	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	A	0.1	0.1	0.1	0.1	0.1	0.15	0.19	
26-Jan-07	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.2	0.1	0.2	0.2	0.15	0.22	
27-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	A	0.3	0.2	0.2	0.1	0.2	0.1	0.1	0.21	0.37	
28-Jan-07	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	A	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17	0.23	
29-Jan-07	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.7	1.2	0.7	0.3	0.2	0.2	0.2	A	0.1	0.1	0.1	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.31	1.23	
30-Jan-07	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15	0.24	
31-Jan-07	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2	A	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.17	0.27	
Hourly Avg	0.19	0.17	0.17	0.17	0.17	0.17	0.20	0.26	0.31	0.25	0.22	0.20	0.19	0.18	0.18	0.18	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.18	0.18			
Hourly Max	0.64	0.29	0.25	0.27	0.28	0.27	0.45	0.73	1.23	0.73	0.47	0.41	0.50	0.33	0.27	0.27	0.32	0.32	0.49	0.64	0.35	0.43	0.34	0.56				

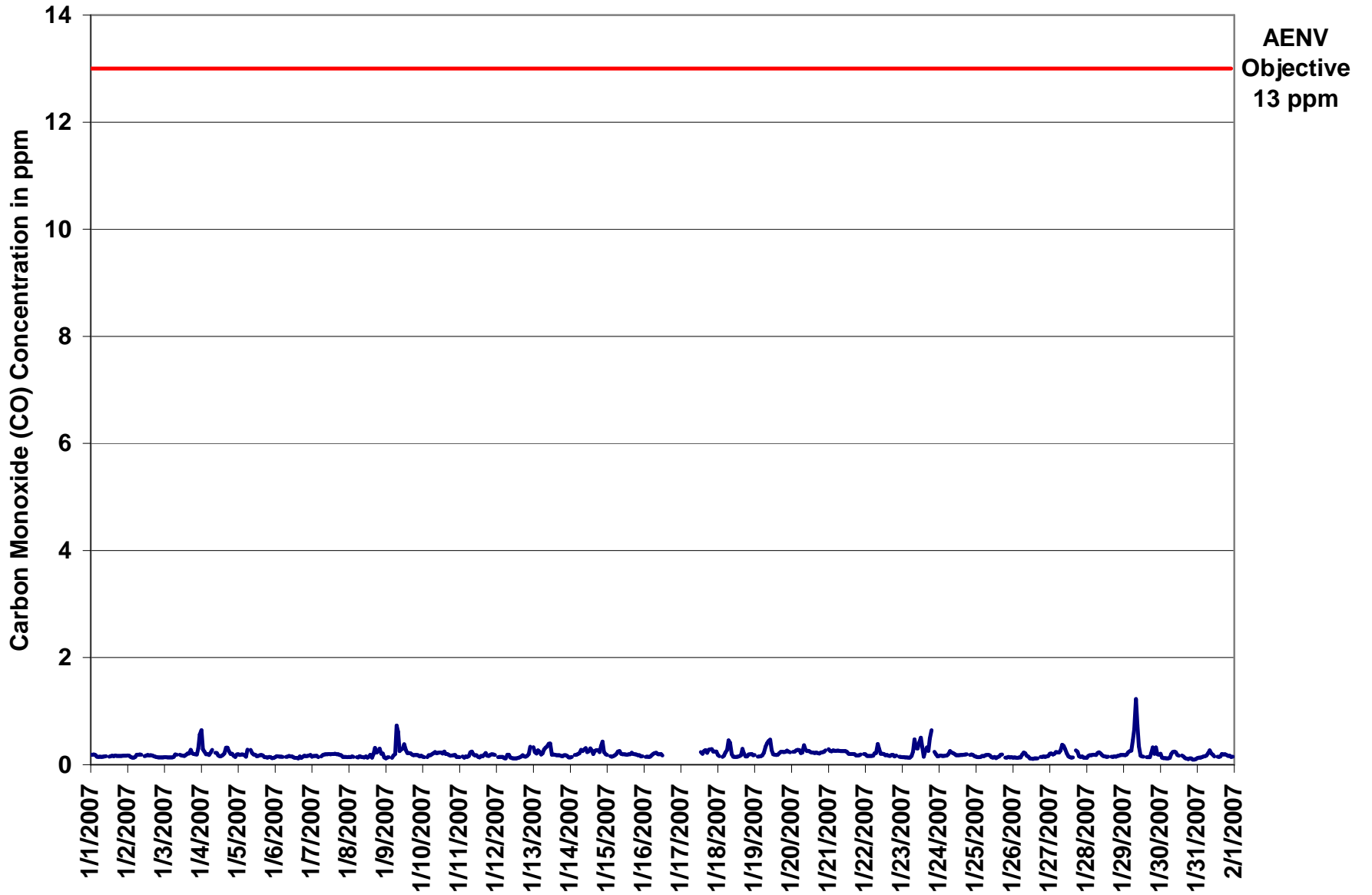


Figure 7. PAS - Crescent Heights Carbon Monoxide 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

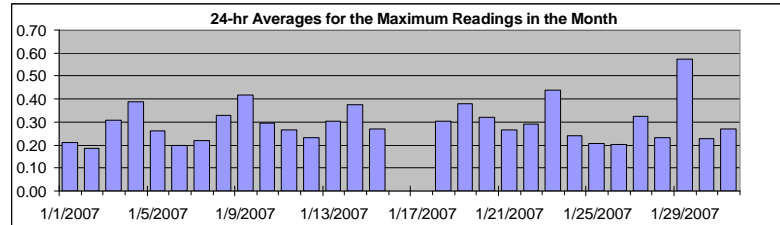
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

Monitoring Dates: January 1, 2007 to February 1, 2007

Summary

Maximum 1-hr Value:	2.8	ppm	29-Jan	8:00 9:00
Maximum 24-hr Value:	0.6	ppm	29-Jan	



AIC Time:	32 hrs	Operational Time:	689 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	97.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.2	0.6	0.3	0.2	0.2	0.1	0.1	0.3 ppm	0.2 ppm

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum	
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-Jan-07	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.36
2-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	A	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	0.19	0.29
3-Jan-07	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.2	A	0.2	0.2	0.2	0.2	0.3	0.7	0.4	0.4	0.3	0.3	0.2	0.6	0.5	0.8	0.31	0.76	
4-Jan-07	1.0	0.5	0.7	0.2	0.2	0.2	0.5	0.4	A	0.3	0.3	0.2	0.2	0.3	0.3	0.5	0.7	0.6	0.4	0.2	0.3	0.3	0.2	0.2	0.39	0.98	
5-Jan-07	0.3	0.2	0.2	0.2	0.2	0.2	1.1	A	0.8	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	0.26	1.07	
6-Jan-07	0.2	0.2	0.2	0.2	0.2	0.1	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	0.3	0.2	0.3	0.2	0.2	0.20	0.32	
7-Jan-07	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	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	0.39	
8-Jan-07	0.2	0.1	0.5	0.2	A	0.2	0.1	0.4	0.2	0.2	0.2	0.4	0.2	0.4	0.8	0.2	0.3	0.7	0.5	0.7	0.5	0.3	0.3	0.2	0.33	0.78	
9-Jan-07	0.2	0.2	0.1	A	0.2	0.2	0.5	2.0	1.4	0.5	0.5	0.5	0.7	0.5	0.3	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.42	1.95	
10-Jan-07	0.2	0.2	A	0.2	0.2	0.2	0.3	0.3	0.5	0.2	0.2	0.3	0.3	0.3	0.6	0.3	0.3	0.3	0.2	0.4	0.3	0.6	0.1	0.2	0.29	0.61	
11-Jan-07	0.2	A	0.2	0.1	0.2	0.2	0.3	0.6	0.4	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.5	0.27	0.56	
12-Jan-07	A	0.1	0.1	0.1	0.2	0.1	0.1	0.6	0.7	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.5	A	0.23	0.68	
13-Jan-07	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.4	0.6	0.6	0.5	0.6	0.3	0.4	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.31	0.60	
14-Jan-07	0.2	0.2	A	0.2	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.3	1.0	0.5	0.5	0.3	0.6	0.8	0.3	0.2	0.37	1.00		
15-Jan-07	0.2	A	0.2	0.2	0.2	0.2	0.3	0.3	0.6	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.27	0.63	
16-Jan-07	A	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.2	0.2	0.2	0.2	C	C	M	M	M	M	M	M	M	M	M	N	0.42	
17-Jan-07	M	M	M	M	M	M	M	M	M	C	C	C	A	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	N	0.49	
18-Jan-07	0.2	0.2	A	0.1	0.2	0.2	0.3	1.1	0.9	0.3	0.2	0.1	0.1	0.2	0.2	0.3	0.4	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.31	1.13	
19-Jan-07	0.2	A	0.1	0.2	0.2	0.4	0.7	0.5	0.6	0.7	0.7	0.5	0.2	0.4	0.3	0.2	0.6	0.4	0.4	0.3	0.3	0.4	0.3	0.3	0.38	0.74	
20-Jan-07	A	0.2	0.3	0.4	0.3	0.3	0.3	0.2	0.6	0.4	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	A	0.32	0.58	
21-Jan-07	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.2	0.27	0.35	
22-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.6	0.5	0.3	0.3	0.3	0.2	0.2	0.2	0.2	1.0	0.2	0.2	0.2	A	0.2	0.1	0.29	0.98	
23-Jan-07	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.7	0.9	0.4	0.8	0.6	0.5	0.2	0.5	0.6	0.5	1.0	1.3	A	0.4	0.3	0.2	0.44	1.30	
24-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.3	0.3	0.2	0.2	0.24	0.46	
25-Jan-07	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	0.3	0.3	A	0.2	0.2	0.2	0.1	0.2	0.21	0.33	
26-Jan-07	0.1	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.1	0.1	0.3	0.2	0.3	0.2	0.20	0.37	
27-Jan-07	0.3	0.3	0.2	0.2	0.3	0.2	0.3	1.1	0.6	0.5	0.4	0.3	0.2	0.2	0.2	0.2	A	0.4	0.5	0.2	0.2	0.4	0.2	0.2	0.33	1.06	
28-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.3	0.3	0.2	0.2	0.3	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23	0.48	
29-Jan-07	0.2	0.2	0.2	0.3	0.3	0.3	1.6	1.8	2.8	1.3	0.7	0.2	0.2	0.2	A	0.2	0.1	0.1	0.4	0.6	0.2	0.5	0.2	0.2	0.57	2.84	
30-Jan-07	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.4	0.3	0.3	0.3	0.3	0.4	A	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.23	0.41	
31-Jan-07	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.5	0.5	0.6	0.2	0.2	A	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.27	0.61	
Hourly Avg	0.25	0.20	0.23	0.20	0.21	0.21	0.36	0.51	0.55	0.39	0.30	0.30	0.25	0.26	0.26	0.27	0.33	0.33	0.30	0.31	0.26	0.31	0.24	0.24			
Hourly Max	0.98	0.46	0.71	0.39	0.34	0.39	1.65	1.95	2.84	1.31	0.70	0.77	0.70	0.51	0.78	0.67	1.00	0.98	0.95	1.30	0.63	0.82	0.50	0.76			

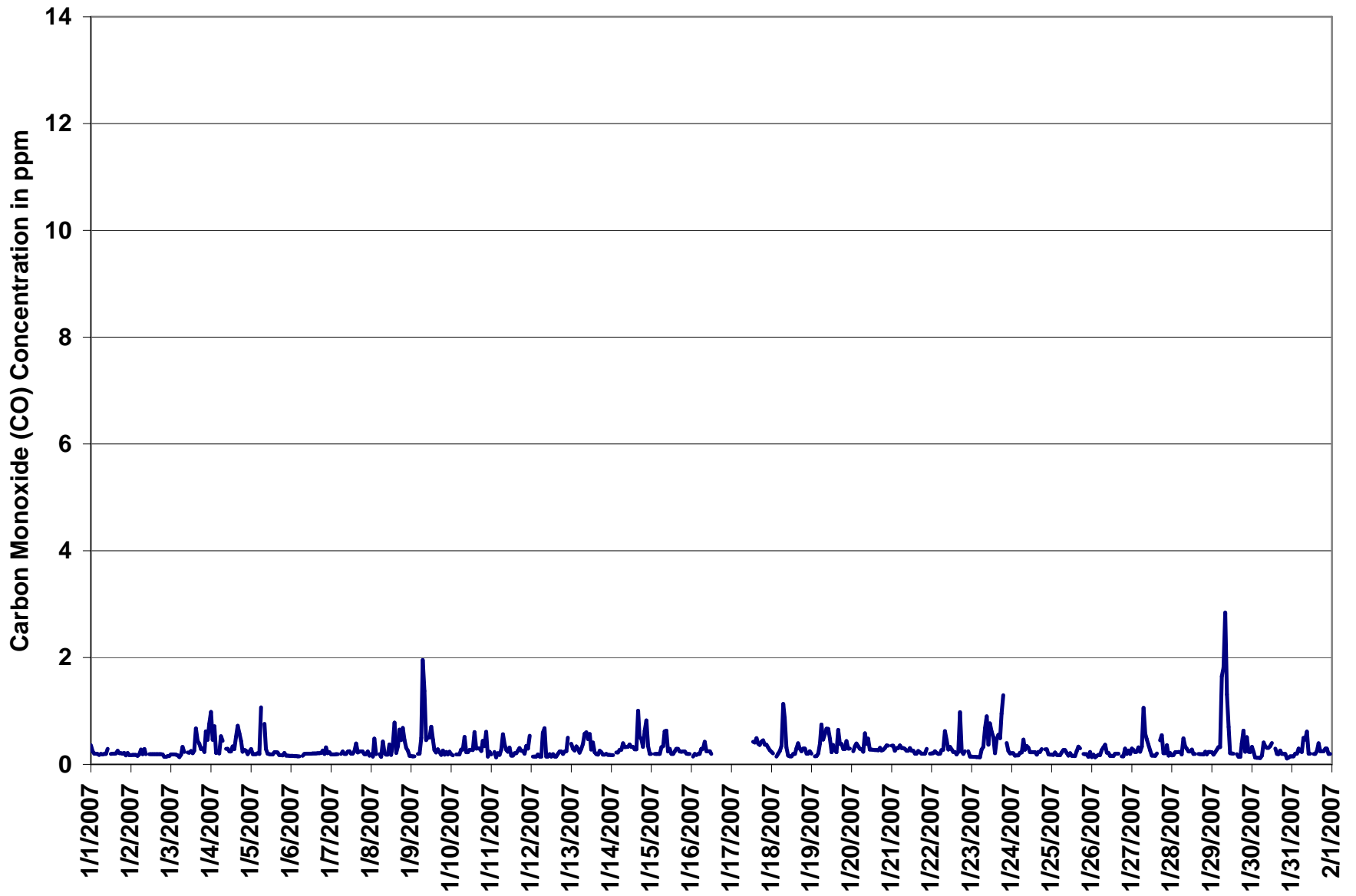
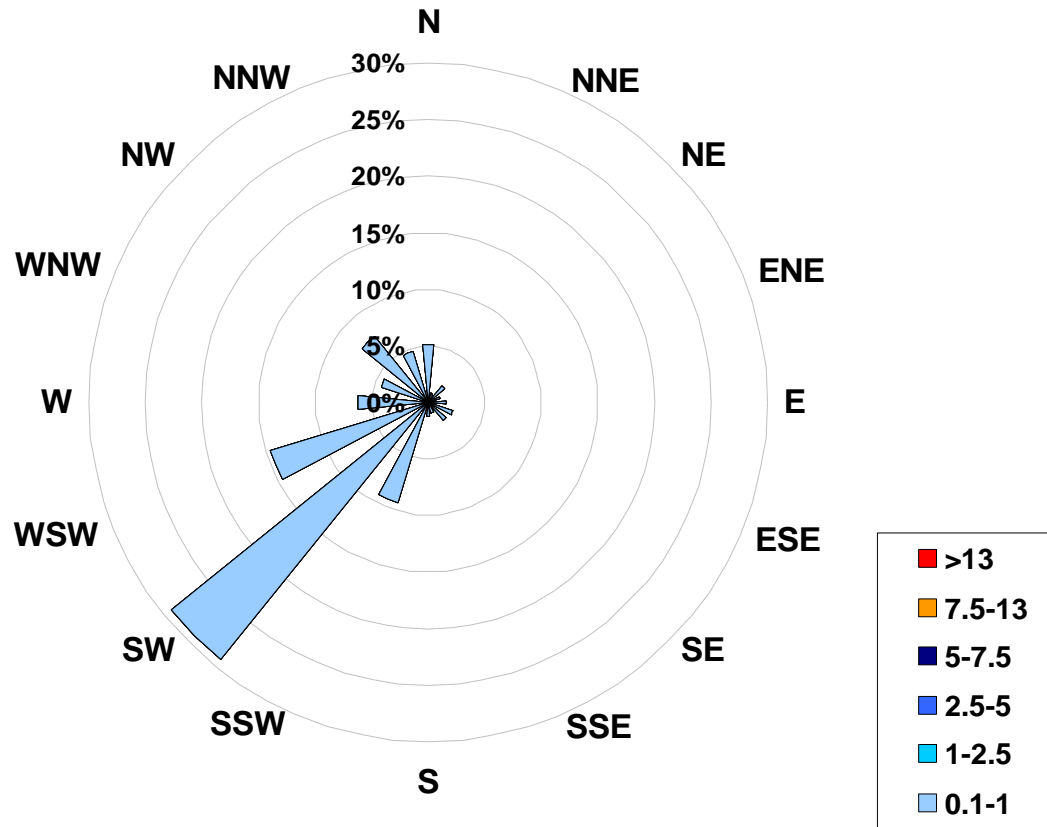


Figure 8. PAS - Crescent Heights Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Carbon Monoxide (in ppm) Located at the Crescent Heights Site for January 2007



Calms: 0%

Frequency Distribution of CO in ppm			
Range			Frequency (hrs)
0.1	<	1	688
1	to	2.5	1
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
	>	13	0
Total Non-Zero Values			689



PAS - Crescent Heights - Carbon Monoxide Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

EIGHT HOUR RUNNING AVERAGE TABLE

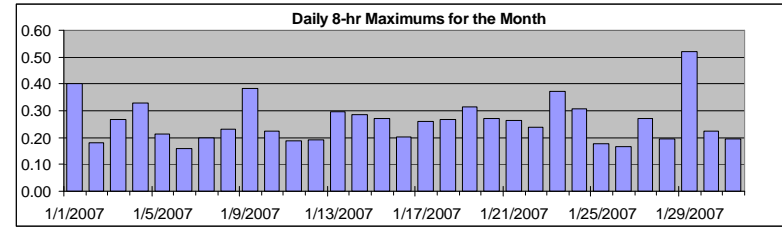
Carbon Monoxide (CO)

Monitoring Dates: January 1, 2007 to February 1, 2007

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

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	0.5 ppm 29-Jan 10:00 11:00

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



Status Flag Characters

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

Day	Mountain Standard Time																							Daily Maximum		
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Jan-07	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.40
2-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.18
3-Jan-07	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	0.3	0.27	
4-Jan-07	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.33
5-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.21	
6-Jan-07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.16	
7-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	
8-Jan-07	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23	
9-Jan-07	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.38	
10-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	
11-Jan-07	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19	
12-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.19	
13-Jan-07	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.30	
14-Jan-07	0.2	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	0.29	
15-Jan-07	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	0.2	0.27	
16-Jan-07	0.2	0.2	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	0.20	
17-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.3	0.3	0.3	0.3	0.3	0.26	
18-Jan-07	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	0.2	0.2	0.2	0.2	0.27	
19-Jan-07	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.32	
20-Jan-07	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.27	
21-Jan-07	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26	
22-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24	
23-Jan-07	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.37	
24-Jan-07	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	0.31	
25-Jan-07	0.2	0.2	0.2	0.2	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	0.18	
26-Jan-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.17	
27-Jan-07	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	0.2	0.2	0.2	0.27	
28-Jan-07	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	0.1	0.2	0.2	0.2	0.2	0.20	
29-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.52	
30-Jan-07	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.22	
31-Jan-07	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	0.2	0.2	0.20	
Hourly Max	0.40	0.37	0.35	0.34	0.33	0.33	0.32	0.30	0.43	0.50	0.52	0.51	0.50	0.49	0.49	0.42	0.32	0.32	0.34	0.37	0.35	0.34	0.35	0.33		



PAS - Crescent Heights - Total Hydrocarbons Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

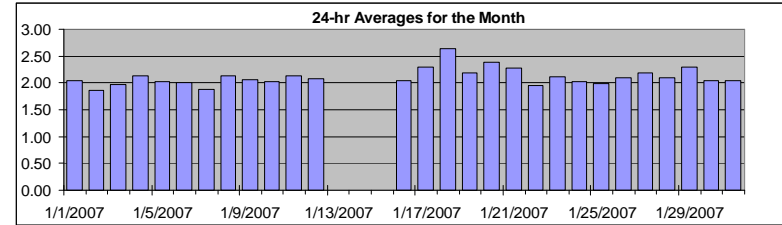
HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)

Monitoring Dates: January 1, 2007 to February 1, 2007

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

Maximum 1-hr Average:	7.7	ppm	18-Jan	5:00 6:00
Maximum 24-hr Value:	2.6	ppm	18-Jan	



AIC Time:	31 hrs	Operational Time:	664 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	93.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.8	2.5	2.2	2.1	2.0	1.9	1.8	2.1 ppm	2.1 ppm

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum			
	Hour Start	Hour End	0:00	1:00	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-Jan-07	2.3	2.5	2.4	2.3	2.1	2.1	2.2	2.2	2.2	2.1	2.0	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.04	2.45
2-Jan-07	1.9	1.9	1.9	1.8	1.8	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.86	1.90	
3-Jan-07	1.8	1.9	1.8	1.8	1.8	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.2	2.2	2.1	2.2	2.5	1.98	2.48			
4-Jan-07	2.6	2.4	2.5	2.6	2.5	2.3	2.2	2.1	A	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.2	2.13	2.62		
5-Jan-07	2.2	2.2	2.1	2.1	2.0	2.0	2.0	A	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	1.9	1.9	1.9	2.02	2.18	
6-Jan-07	2.0	2.0	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.00	2.14		
7-Jan-07	2.1	2.1	2.1	2.0	2.0	A	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.88	2.09		
8-Jan-07	1.9	1.9	2.0	2.0	A	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.4	2.3	2.4	2.3	2.2	2.1	2.12	2.40		
9-Jan-07	2.1	2.0	2.0	A	2.0	2.1	2.4	2.5	2.3	2.3	2.2	2.3	2.2	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.06	2.49		
10-Jan-07	1.9	1.9	A	1.9	1.9	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.02	2.13		
11-Jan-07	2.0	A	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.13	2.23		
12-Jan-07	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	A	2.07	2.25		
13-Jan-07	2.5	2.2	2.0	2.1	2.2	2.1	2.4	2.6	2.6	2.9	A	2.6	2.3	2.1	1.8	N	N	N	N	N	N	N	N	N	N	N	N	2.91	
14-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.00	
15-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	2.4	2.4	2.4	2.3	2.3	2.2	2.2	2.2	2.2	2.2	N	2.36		
16-Jan-07	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	C	C	A	2.0	2.1	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	2.03	2.14		
17-Jan-07	2.0	2.1	A	2.5	2.6	2.5	2.4	2.3	2.3	2.2	2.5	2.5	2.1	1.9	2.0	2.0	2.1	2.1	2.2	2.3	2.6	2.4	2.5	2.4	2.29	2.59			
18-Jan-07	2.2	2.2	A	2.1	2.4	7.7	6.5	4.3	2.4	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.2	2.1	2.1	2.1	2.63	7.66		
19-Jan-07	2.2	A	2.0	2.0	2.1	2.1	2.1	2.2	2.1	2.4	3.2	2.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.5	2.5	2.4	2.4	2.19	3.24			
20-Jan-07	A	2.5	2.5	2.5	2.7	2.8	2.5	2.3	2.7	2.5	2.4	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.3	2.4	2.4	A	2.39	2.84			
21-Jan-07	2.5	2.8	2.7	2.6	2.6	2.5	2.5	2.5	2.4	2.4	2.4	2.3	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.1	2.28	2.78		
22-Jan-07	2.0	2.0	2.0	2.0	1.9	2.0	2.0	1.9	2.0	2.0	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	A	2.0	2.0	2.0	1.95	2.04			
23-Jan-07	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.2	2.2	2.3	2.1	2.0	2.0	2.1	2.1	2.1	2.3	2.5	A	2.5	2.2	2.1	2.12	2.50		
24-Jan-07	2.1	2.2	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	1.9	2.0	2.0	2.0	2.0	A	2.1	2.2	2.1	2.0	2.03	2.16			
25-Jan-07	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	A	2.0	2.0	2.1	2.1	2.1	1.99	2.09			
26-Jan-07	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.1	2.1	2.1	2.1	2.2	2.09	2.19			
27-Jan-07	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.5	2.4	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	A	2.1	2.1	2.1	2.0	2.0	2.0	2.18	2.51		
28-Jan-07	2.0	2.0	2.1	2.2	2.3	2.2	2.2	2.2	2.3	2.2	2.1	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.10	2.28		
29-Jan-07	2.1	2.2	2.2	2.3	2.3	2.4	2.5	2.5	2.7	2.7	2.3	2.1	2.0	2.0	A	2.0	2.0	2.1	2.2	2.3	2.3	2.5	2.7	2.3	2.30	2.73			
30-Jan-07	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.1	2.0	A	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.04	2.25			
31-Jan-07	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	1.9	2.0	2.05	2.14			
Hourly Avg	2.12	2.13	2.12	2.14	2.14	2.33	2.31	2.23	2.18	2.18	2.15	2.11	2.04	1.99	1.98	2.00	2.01	2.03	2.06	2.09	2.09	2.11	2.11	2.08					
Hourly Max	2.62	2.78	2.65	2.61	2.69	7.66	6.51	4.35	2.72	2.91	3.24	2.63	2.28	2.24	2.36	2.36	2.36	2.32	2.40	2.51	2.56	2.51	2.71	2.48					

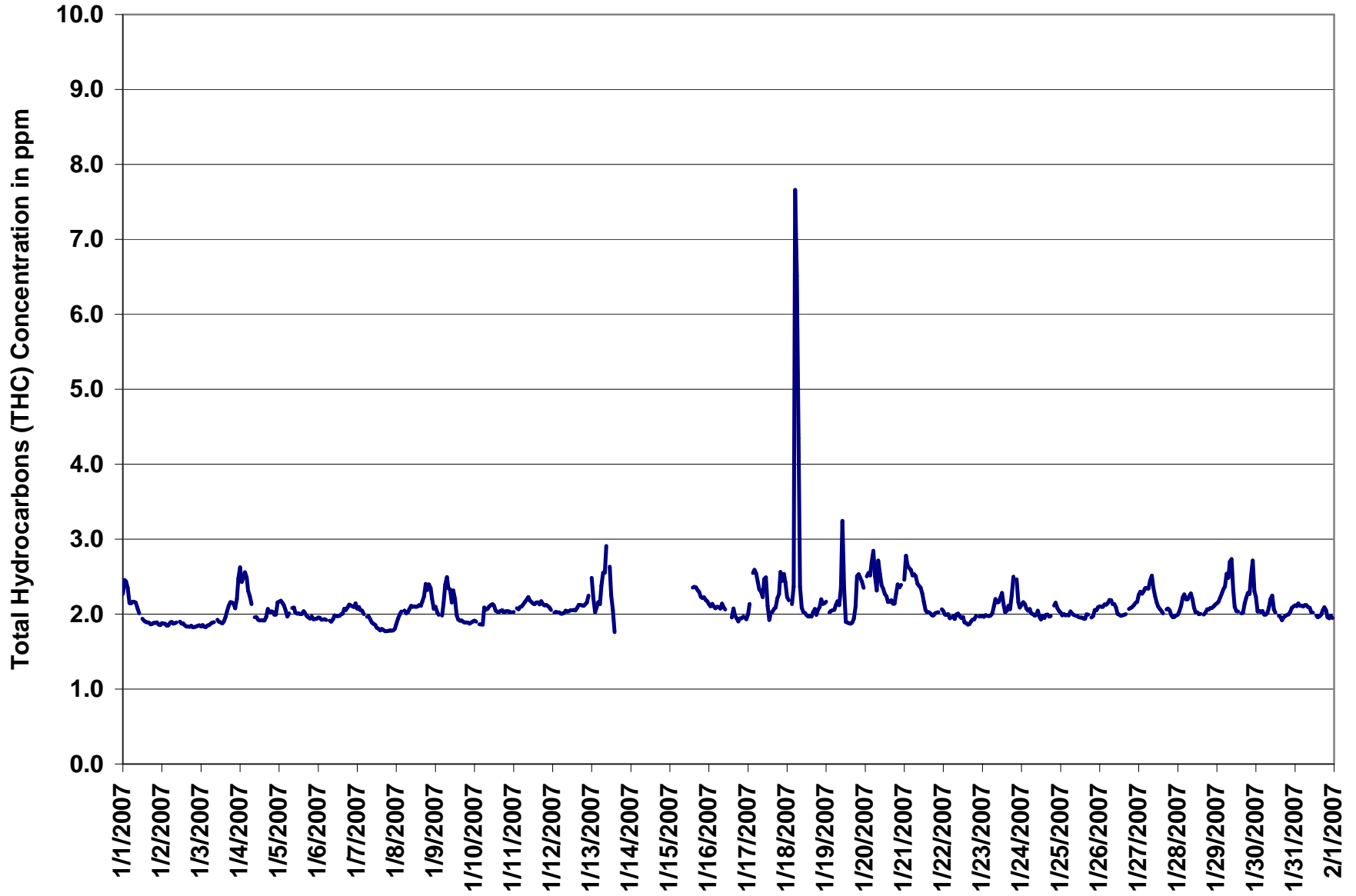


Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

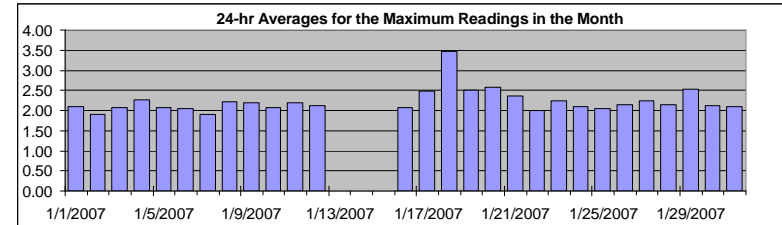
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Hydrocarbons (THC)

Monitoring Dates: January 1, 2007 to February 1, 2007

Summary

Maximum 1-hr Value:	13.5	ppm	18-Jan	5:00 6:00
Maximum 24-hr Value:	3.5	ppm	18-Jan	



AIC Time:	31 hrs	Operational Time:	664 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	93.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.8	2.7	2.3	2.1	2.0	1.9	1.8	2.2 ppm	2.1 ppm

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	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	24-hour Average	Daily Maximum
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-Jan-07	2.4	2.6	2.6	2.4	2.2	2.2	2.2	2.2	2.2	2.2	2.1	A	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.10	2.56
2-Jan-07	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	2.0	2.0	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.90	1.96
3-Jan-07	1.9	1.9	1.8	1.8	1.9	1.9	1.9	1.9	1.9	A	2.0	1.9	1.9	1.9	2.0	2.1	2.3	2.2	2.2	2.2	2.3	2.2	2.7	2.7	2.7	2.06	2.68
4-Jan-07	3.0	2.6	2.7	2.9	2.7	2.5	2.6	2.2	A	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.26	3.00
5-Jan-07	2.3	2.3	2.2	2.2	2.1	2.0	2.2	A	2.1	2.3	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.08	2.33
6-Jan-07	2.0	2.0	2.0	2.0	2.0	2.0	A	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.1	2.2	2.2	2.1	2.2	2.1	2.2	2.2	2.05	2.22
7-Jan-07	2.1	2.1	2.1	2.1	2.0	A	2.0	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.91	2.13
8-Jan-07	1.9	2.0	2.1	2.1	A	2.1	2.0	2.1	2.1	2.1	2.1	2.2	2.5	2.2	2.2	2.2	2.2	2.4	2.5	2.5	2.5	2.4	2.3	2.1	2.21	2.53	
9-Jan-07	2.2	2.0	2.0	A	2.1	2.6	2.8	2.9	2.7	2.4	2.5	2.5	2.3	2.2	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.19	2.86	
10-Jan-07	2.0	1.9	A	1.9	1.9	1.9	2.2	2.1	2.2	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.07	2.23
11-Jan-07	2.1	A	2.1	2.1	2.2	2.2	2.2	2.4	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.1	2.2	2.2	2.1	2.1	2.19	2.40
12-Jan-07	A	2.1	2.0	2.1	2.1	2.0	2.0	2.1	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2	2.1	2.2	2.2	2.4	A	2.12	2.38	
13-Jan-07	2.7	2.6	2.2	2.2	2.3	2.2	2.6	2.8	2.6	3.3	A	3.0	2.3	2.1	1.9	N	N	N	N	N	N	N	N	N	N	N	3.29
14-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.00
15-Jan-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	2.4	2.4	2.4	2.4	2.4	2.3	2.2	2.3	2.2	2.2	2.2	N	2.44
16-Jan-07	2.2	2.1	2.2	2.2	2.1	2.1	2.2	2.1	2.2	2.1	2.1	C	C	A	2.0	2.2	2.1	2.1	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.08	2.19
17-Jan-07	2.0	2.3	A	2.7	2.7	2.6	2.5	2.5	2.4	2.4	3.6	3.2	2.2	2.0	2.2	2.2	2.1	2.1	2.3	2.5	2.7	2.7	2.6	2.6	2.6	2.48	3.64
18-Jan-07	2.3	2.3	A	2.2	4.2	13.5	11.9	8.1	3.5	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.2	2.0	2.1	2.2	2.2	2.2	2.3	2.3	3.47	13.49
19-Jan-07	2.3	A	2.1	2.2	2.2	2.2	2.4	2.3	2.2	4.6	5.2	3.6	1.9	1.9	1.9	1.9	1.9	2.1	2.3	2.6	2.6	2.5	2.5	2.4	2.51	5.17	
20-Jan-07	A	2.6	2.6	2.8	2.9	3.1	3.1	2.4	3.2	3.0	2.5	2.4	2.3	2.3	2.3	2.3	2.2	2.3	2.2	2.5	2.6	2.5	2.5	A	2.57	3.15	
21-Jan-07	2.7	2.9	2.9	2.7	2.7	2.6	2.6	2.6	2.5	2.4	2.4	2.4	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	A	2.1	2.36	2.90	
22-Jan-07	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	A	2.0	2.0	2.00	2.11	
23-Jan-07	2.0	2.0	2.1	2.0	2.0	2.0	2.1	2.2	2.3	2.4	2.2	2.4	2.4	2.2	2.1	2.1	2.2	2.2	2.4	2.9	A	2.7	2.3	2.1	2.23	2.89	
24-Jan-07	2.2	2.3	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.0	2.0	A	2.2	2.2	2.2	2.1	2.1	2.10	2.29
25-Jan-07	2.1	2.0	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	A	2.0	2.0	2.1	2.1	2.2	2.2	2.05	2.20
26-Jan-07	2.1	2.1	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	A	2.1	2.1	2.2	2.2	2.7	2.2	2.2	2.15	2.66
27-Jan-07	2.3	2.3	2.3	2.3	2.5	2.4	2.4	2.5	2.6	2.4	2.3	2.2	2.1	2.1	2.1	2.0	A	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.24	2.60
28-Jan-07	2.0	2.1	2.3	2.3	2.3	2.2	2.2	2.3	2.3	2.3	2.1	2.0	2.0	2.0	2.0	A	2.0	2.1	2.1	2.1	2.2	2.1	2.1	2.2	2.15	2.33	
29-Jan-07	2.2	2.2	2.3	2.3	2.4	2.5	4.5	2.7	3.1	3.1	2.6	2.2	2.1	2.1	A	2.0	2.1	2.3	2.4	2.5	2.3	3.0	3.1	2.4	2.53	4.45	
30-Jan-07	2.3	2.2	2.1	2.1	2.1	2.0	2.0	2.1	2.2	2.3	2.3	2.2	2.3	A	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.11	2.34	
31-Jan-07	2.2	2.2	2.2	2.2	2.1	2.3	2.2	2.2	2.2	2.2	2.1	2.1	A	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.10	2.25
Hourly Avg	2.20	2.21	2.20	2.22	2.28	2.61	2.68	2.46	2.32	2.37	2.33	2.25	2.11	2.04	2.04	2.06	2.07	2.11	2.12	2.17	2.16	2.20	2.21	2.15			
Hourly Max	3.00	2.90	2.85	2.91	4.19	13.49	11.89	8.07	3.53	4.56	5.17	3.59	2.53	2.28	2.44	2.41	2.39	2.38	2.48	2.89	2.65	3.00	3.14	2.66			

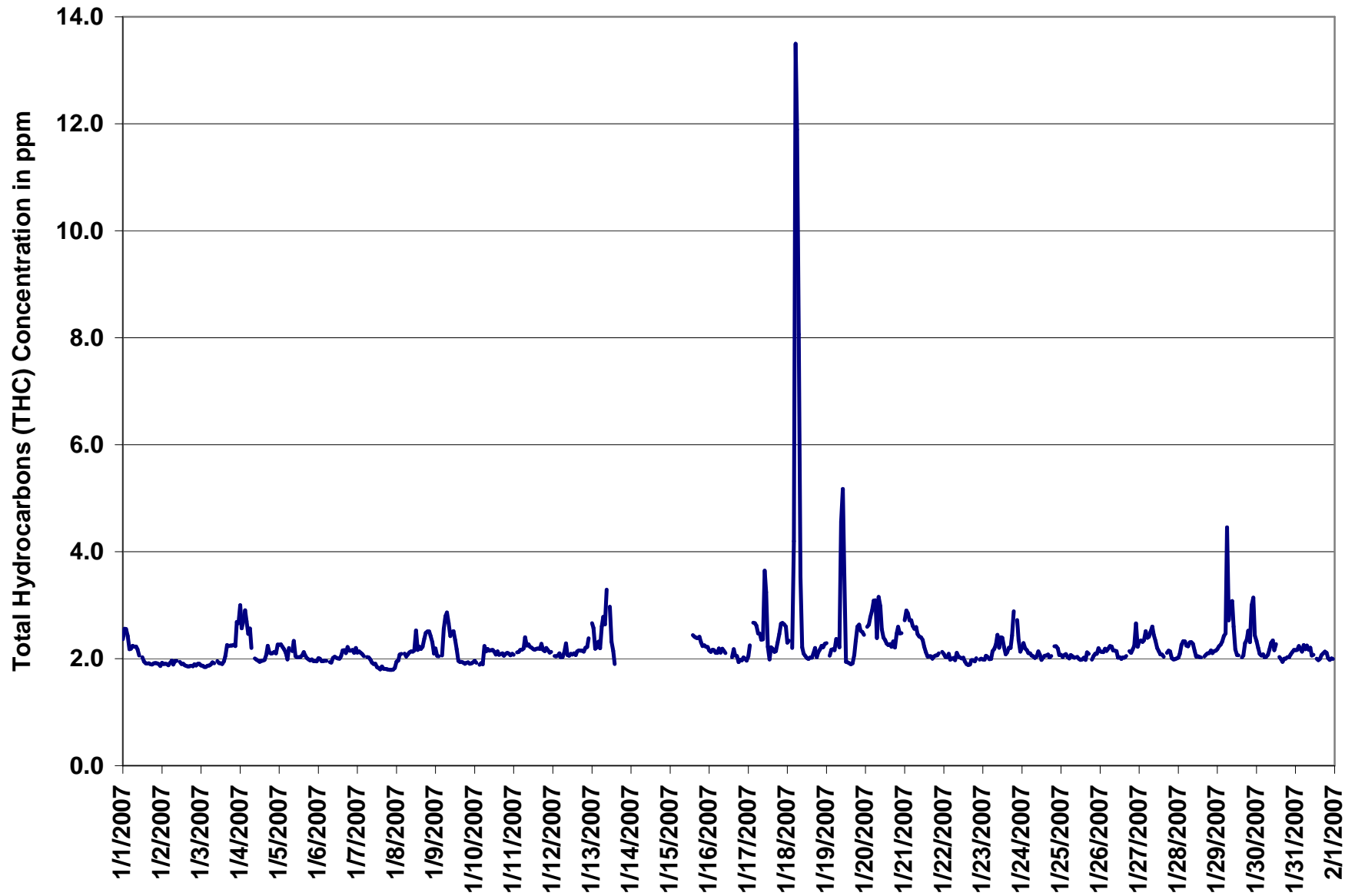
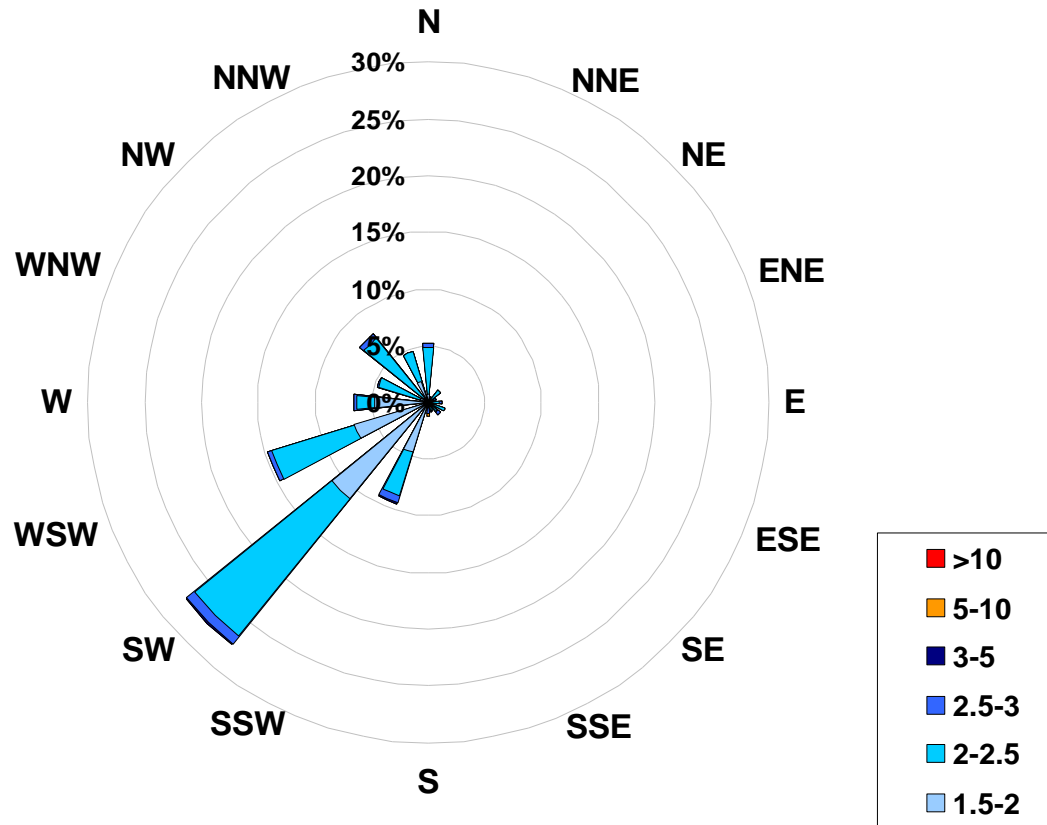


Figure 10. PAS - Crescent Heights Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend



**1-hr Average Concentration Rose for Total Hydrocarbons (in ppm)
Located at the Crescent Heights Site for January 2007**



Calms: 0%

Frequency Distribution of THC in ppm			Frequency (hrs)
Range			
1.5	< 2		228
2	to 2.5		398
2.5	to 3		34
3	to 5		2
5	to 10		2
	> 10		0
Total Non-Zero Values			664



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

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

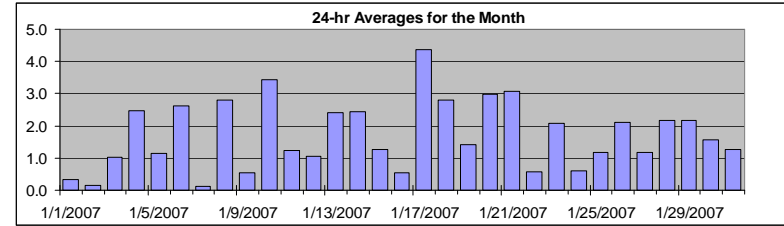
Particulate Matter (PM_{2.5})

Monitoring Dates: January 1, 2007 to February 1, 2007

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

Number of 24-hr Exceedances (draft):	0		
Maximum 1-hr Average:	19.0 µg/m ³	6-Jan	13:00 14:00
Maximum 24-hr Value:	4.4 µg/m ³	17-Jan	

AIC Time:	0 hrs	Operational Time:	735 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.3%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	7.3	5.2	2.7	1.3	0.0	0.0	0.0	1.7 1 µg/m ³	1.3 µg/m ³



Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum			
Hour Start	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-Jan-07	0	2	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.9
2-Jan-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0.1	1.3
3-Jan-07	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2	1	2	1	1	1	2	7	5	1	0	1.0	7.2
4-Jan-07	5	5	4	3	3	3	4	2	3	1	0	0	0	0	1	1	2	4	3	3	3	2	3	3	3	3	2.5	4.7
5-Jan-07	3	4	5	4	3	1	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	4.7
6-Jan-07	0	0	0	0	0	0	1	1	2	2	5	4	6	19	3	3	2	2	4	3	1	3	2	1	1	1	2.6	19.0
7-Jan-07	0	0	0	1	0	0	0	D	0	D	0	D	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.1	0.7
8-Jan-07	2	1	2	3	3	2	1	5	8	10	3	2	0	1	0	1	2	4	5	4	5	1	0	0	0	0	2.8	10.0
9-Jan-07	0	0	0	0	0	0	0	1	2	3	1	1	1	3	0	0	0	0	D	0	D	0	0	0	0	0	0.6	3.4
10-Jan-07	0	0	0	1	2	3	7	6	7	8	7	7	3	3	2	4	3	4	3	3	3	2	2	3	3	3	3.4	7.9
11-Jan-07	2	2	1	0	1	1	1	2	2	3	2	2	0	1	3	2	1	2	1	1	1	0	0	0	0	0	1.2	2.7
12-Jan-07	0	0	0	0	0	1	2	1	2	2	2	1	1	1	2	2	2	1	0	0	0	1	2	2	2	2	1.1	2.5
13-Jan-07	1	1	1	2	1	1	1	3	3	4	5	4	4	4	4	5	4	4	1	1	1	1	2	2	0	0	2.4	5.0
14-Jan-07	1	0	1	2	1	2	3	6	4	5	3	2	2	3	2	2	3	2	1	1	3	4	3	2	2	0	2.4	6.0
15-Jan-07	2	2	2	2	2	2	3	2	3	2	2	1	1	2	1	1	1	1	0	0	1	0	0	0	0	0	1.3	2.7
16-Jan-07	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	3	0	0	1	1	0	1	2	2	2	0	0.5	2.5
17-Jan-07	2	4	4	3	4	4	4	4	3	1	3	1	C	C	C	C	7	6	6	6	6	7	6	8	7	4	4.4	7.6
18-Jan-07	2	2	3	2	2	2	3	5	4	4	2	1	2	2	3	3	4	4	3	3	3	3	4	1	1	0	2.8	4.8
19-Jan-07	0	0	0	0	0	0	1	1	1	2	2	1	0	0	0	1	1	2	2	4	5	4	4	4	4	4	1.4	4.9
20-Jan-07	2	3	3	2	2	3	2	3	6	4	3	2	1	2	2	2	3	2	3	3	3	4	4	4	5	5	3.0	5.8
21-Jan-07	5	4	7	5	5	5	6	7	7	6	8	4	1	0	0	0	0	0	0	0	0	1	1	1	1	1	3.1	8.2
22-Jan-07	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	1	0	2	1	2	0	3	1	1	0	0.6	2.6
23-Jan-07	1	1	1	2	1	1	1	0	3	3	4	4	3	3	1	3	2	1	3	6	3	2	2	0	0	0	2.1	5.6
24-Jan-07	0	1	0	0	0	0	0	0	1	1	1	1	0	1	0	0	1	1	1	1	2	0	1	0	0	0	0.6	1.8
25-Jan-07	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	2	1	1	3	4	6	4	3	3	3	1.2	6.4
26-Jan-07	3	2	2	2	0	0	1	2	2	3	0	0	0	1	2	5	4	4	3	3	3	2	2	3	3	3	2.1	5.4
27-Jan-07	2	1	2	0	2	1	1	2	3	2	2	2	0	0	0	0	0	2	2	2	0	0	1	1	1	1	1.2	2.9
28-Jan-07	2	2	3	4	4	4	5	6	5	3	1	0	0	0	0	0	0	1	1	2	1	1	3	3	3	3	2.2	6.5
29-Jan-07	2	2	3	1	2	1	1	2	6	7	4	0	0	0	0	0	0	1	4	5	4	5	1	0	0	0	2.2	6.7
30-Jan-07	0	0	0	0	0	0	0	2	4	5	5	1	1	0	1	2	2	3	3	3	3	2	3	3	1	1	1.6	4.9
31-Jan-07	0	0	2	0	1	0	0	0	0	0	2	2	0	0	1	2	3	3	2	3	4	4	2	1	1	1	1.3	3.8
Hourly Avg	1.2	1.2	1.6	1.3	1.3	1.3	1.8	2.2	2.7	2.8	2.2	1.4	0.8	1.5	1.0	1.5	1.7	1.9	1.9	2.1	2.1	2.0	2.1	1.5	1.5	1.5	1.5	1.5
Hourly Max	4.9	4.7	6.7	4.9	5.4	5.1	6.8	6.9	7.9	10.0	8.2	7.2	6.1	19.0	4.3	5.4	6.8	6.2	5.6	6.2	6.7	6.4	7.6	6.7	6.7	6.7	6.7	6.7

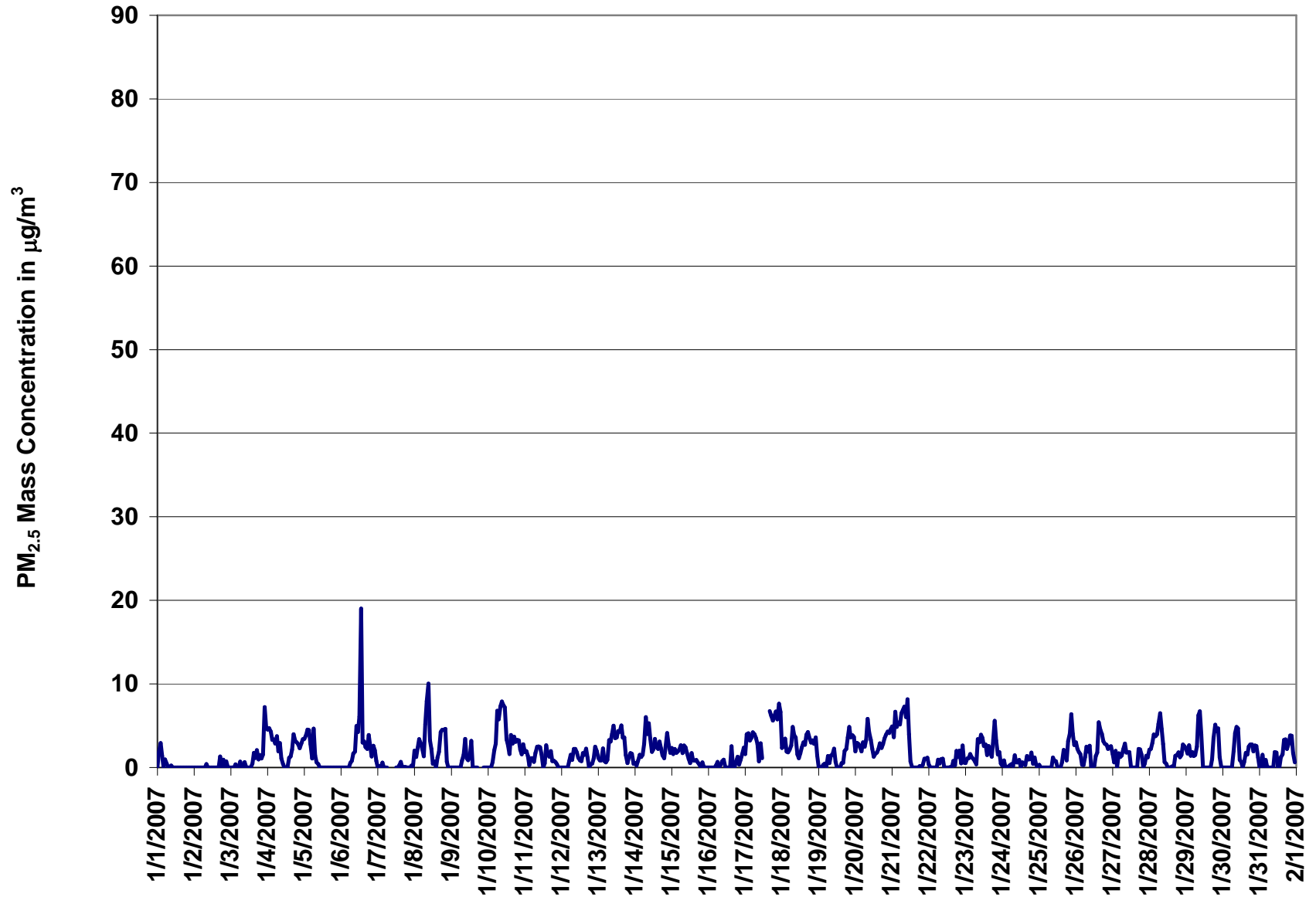


Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

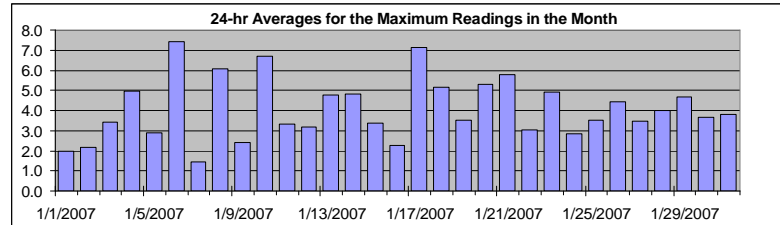
Particulate Matter (PM_{2.5})

Monitoring Dates: January 1, 2007 to February 1, 2007

Summary

Maximum 1-hr Average:	81.6	µg/m ³	6-Jan	13:00 14:00
Maximum 24-hr Value:	7.4	µg/m ³	6-Jan	

AIC Time:	0 hrs	Operational Time:	735 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.3%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	14.0	8.8	5.3	3.6	2.2	0.4	0.0	4.1	4 µg/m ³
									3.8 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-Jan-07	2	4	5	3	2	3	3	1	2	2	1	2	1	0	1	2	0	2	1	3	2	4	1	2.0	5.2	
2-Jan-07	2	3	3	1	2	3	4	3	5	1	2	1	0	0	0	1	5	2	3	3	5	3	2	2.2	5.4	
3-Jan-07	2	3	1	5	2	3	4	3	3	3	2	1	0	1	2	4	4	5	3	3	4	15	7	3.4	15.4	
4-Jan-07	7	7	7	6	6	5	10	3	7	3	3	1	0	2	2	5	5	7	6	7	5	5	5	5.0	10.1	
5-Jan-07	5	6	7	8	4	2	12	4	3	3	1	0	0	1	1	0	1	0	0	0	1	7	1	2.9	11.6	
6-Jan-07	3	0	0	0	0	1	10	2	4	4	9	8	12	82	5	5	4	4	6	5	3	4	4	3	7.4	81.6
7-Jan-07	0	1	2	4	0	0	3	D	0	D	1	D	2	2	2	1	2	1	0	1	1	2	2	1.4	3.9	
8-Jan-07	7	4	5	6	6	5	4	9	14	20	6	4	3	3	2	3	4	8	10	10	8	3	2	0	6.1	19.9
9-Jan-07	0	1	1	0	1	1	2	4	4	8	5	3	6	16	0	1	1	0	D	0	D	0	0	0	2.4	16.5
10-Jan-07	1	0	1	4	6	6	11	9	10	10	9	21	5	6	6	9	6	6	7	6	5	5	5	6.7	21.1	
11-Jan-07	4	4	4	2	3	3	2	4	4	5	5	5	2	2	5	4	3	5	3	3	2	2	1	2	3.3	5.3
12-Jan-07	2	0	2	1	2	2	6	3	5	5	4	3	4	3	4	5	4	3	2	2	3	5	5	3.2	5.7	
13-Jan-07	3	3	3	5	3	3	3	9	6	8	8	7	6	7	6	7	5	5	4	2	3	3	3	2	4.8	9.3
14-Jan-07	3	2	3	5	2	5	6	9	6	8	5	6	4	6	5	5	5	5	3	3	5	6	5	4	4.8	8.7
15-Jan-07	4	4	4	4	5	4	6	4	5	5	4	3	3	5	4	3	2	2	2	1	3	1	0	1	3.4	5.6
16-Jan-07	0	0	1	1	1	2	5	2	2	2	2	2	1	2	0	7	2	1	4	2	2	3	4	5	2.3	7.3
17-Jan-07	4	10	6	5	6	7	7	5	4	3	10	3	C	C	C	C	8	9	7	9	8	8	10	15	7.2	14.6
18-Jan-07	5	4	6	5	4	3	5	9	7	6	4	4	3	5	5	5	7	6	6	5	5	5	6	4	5.2	8.5
19-Jan-07	2	1	2	2	3	2	9	3	3	3	4	4	0	0	1	2	2	4	5	6	7	6	6	7	3.5	8.6
20-Jan-07	5	5	5	7	4	5	5	5	8	7	5	5	3	3	4	4	4	4	5	6	6	7	8	9	5.3	8.8
21-Jan-07	7	5	9	8	8	10	19	9	10	8	11	7	4	0	2	2	1	2	1	3	2	5	3	2	5.8	19.0
22-Jan-07	3	2	4	1	2	1	9	3	4	4	2	2	2	1	2	1	3	2	4	3	4	3	8	3	3.0	9.1
23-Jan-07	2	4	3	4	3	3	2	3	6	5	8	7	5	6	4	5	5	4	5	12	10	3	5	3	4.9	11.7
24-Jan-07	2	3	1	1	4	2	4	2	4	3	3	2	2	2	3	4	4	3	3	5	3	4	2	2	2.9	5.4
25-Jan-07	3	1	1	3	3	2	2	2	2	5	3	3	2	1	1	4	6	4	4	6	8	9	6	4	3.5	9.1
26-Jan-07	6	3	4	4	2	2	3	5	4	6	3	2	2	4	4	13	7	5	6	5	4	4	4	5	4.4	13.4
27-Jan-07	5	3	5	3	4	3	3	5	7	5	5	4	1	0	0	3	2	6	6	3	1	2	4	2	3.5	7.1
28-Jan-07	4	4	5	5	6	6	7	10	8	5	3	2	1	2	3	2	2	3	4	4	2	3	4	4	4.0	9.6
29-Jan-07	4	4	5	3	3	3	5	5	11	11	8	2	1	1	1	2	3	7	11	6	8	5	2	4	4.7	11.3
30-Jan-07	1	3	1	0	1	6	4	5	6	6	6	3	2	1	2	6	3	4	4	4	3	6	6	4	3.7	6.5
31-Jan-07	2	3	5	4	4	3	4	2	2	3	6	5	3	2	3	4	5	5	5	4	5	5	4	2	3.8	5.8
Hourly Avg	3.2	3.1	3.6	3.6	3.3	3.5	5.7	4.7	5.3	5.5	4.7	4.0	2.7	5.5	2.7	3.9	3.6	4.0	4.2	4.4	4.1	4.1	4.7	3.6		
Hourly Max	7.1	10.1	9.4	8.4	8.3	9.9	19.0	9.6	14.4	19.9	11.4	21.1	11.8	81.6	6.2	13.4	8.4	8.5	9.6	11.7	10.1	9.1	15.4	14.6		

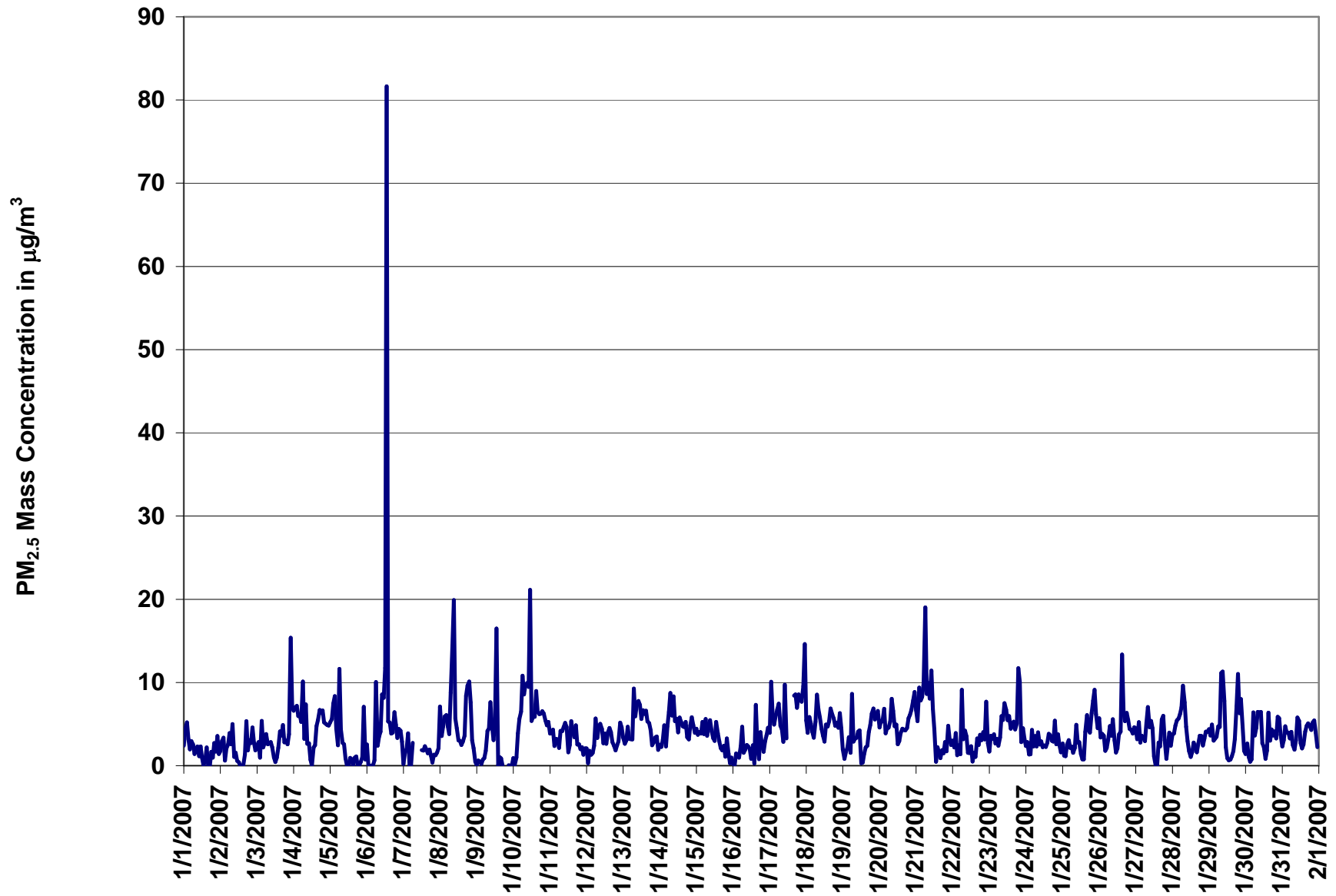
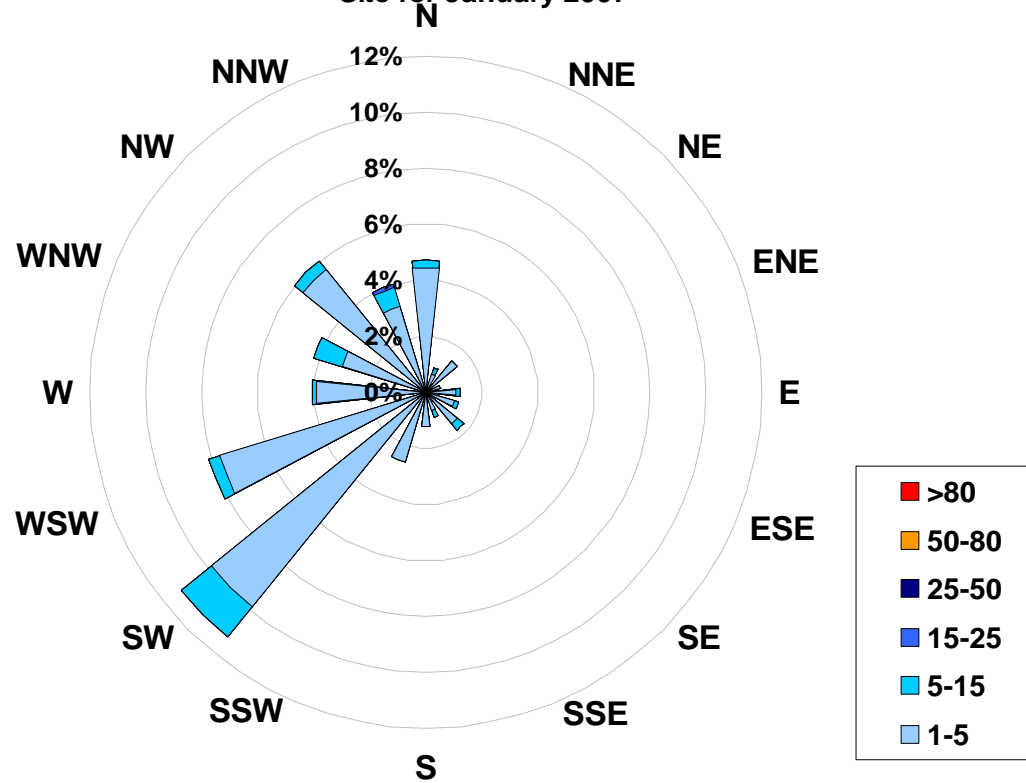


Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Crescent Heights Site for January 2007



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			Frequency (hrs)
Range			
1.0	< 5		694
5	to 15		40
15	to 25		1
25	to 50		0
50	to 80		0
	> 80		0
Total Non-Zero Values			735



PAS - Crescent Heights - Relative Humidity Monthly Summary

Station: Crescent Heights
Station Owner: PAS

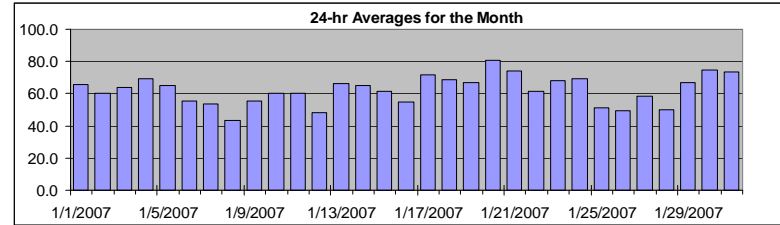
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: January 1, 2007 to February 1, 2007

Summary

Maximum 1-hr Average:	87.3 %	20-Jan	5:00 6:00
Maximum 24-hr Value:	80.6 %	20-Jan	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	85.6	82.8	70.7	61.6	55.1	41.4	31.6	62.4 %	61.6 %

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	23:00	0:00		
1-Jan-07	77	78	77	77	75	74	73	74	74	68	61	55	52	53	55	58	61	63	64	65	64	65	61	58		65.9	77.6
2-Jan-07	63	63	59	58	61	60	63	62	61	60	61	61	60	62	61	61	58	57	57	58	60	56	58	59		60.0	63.3
3-Jan-07	60	67	65	63	63	60	58	58	60	60	62	57	54	51	55	59	64	67	68	70	73	73	79	84		63.7	83.7
4-Jan-07	86	85	86	84	82	80	84	85	84	83	78	63	54	52	53	54	54	56	57	60	58	58	58	65		69.1	85.8
5-Jan-07	66	62	65	70	87	87	83	81	80	79	74	69	59	53	56	54	55	53	55	56	54	53	53	54		65.0	86.8
6-Jan-07	57	59	58	59	58	60	61	61	61	56	52	57	46	41	41	41	44	47	52	57	60	63	66	71		55.3	70.9
7-Jan-07	48	51	55	57	59	58	57	61	60	57	57	56	54	50	50	50	52	50	51	53	52	52	51	50		53.8	60.6
8-Jan-07	54	58	56	57	57	48	32	30	33	41	42	38	35	30	27	28	32	35	42	48	57	58	58	51		43.5	58.0
9-Jan-07	57	57	58	55	55	61	60	60	62	62	62	60	60	56	55	54	53	53	51	49	49	49	47	44		55.3	62.2
10-Jan-07	40	40	40	44	48	56	66	70	74	75	71	64	59	59	58	64	61	64	65	65	68	68	66	66		60.4	75.4
11-Jan-07	68	69	68	65	63	63	61	62	63	62	59	57	56	54	54	54	56	60	61	61	60	59	55	55		60.2	68.8
12-Jan-07	56	53	49	44	45	43	42	42	41	37	38	41	42	41	44	47	50	54	54	55	55	57	60	62		48.1	62.5
13-Jan-07	66	64	62	63	62	61	61	64	60	61	59	55	61	73	74	75	76	75	72	71	69	69	69	69		66.3	75.9
14-Jan-07	69	70	71	71	71	69	68	69	69	68	63	59	55	51	51	52	58	65	68	69	71	71	68	67		65.1	71.3
15-Jan-07	67	67	66	65	66	65	63	63	63	62	59	57	55	53	55	56	59	61	64	64	66	64	61	61		61.7	67.0
16-Jan-07	57	57	59	62	64	64	63	59	54	53	47	47	45	48	48	50	52	55	54	52	54	55	58	56		54.8	64.3
17-Jan-07	59	67	72	76	76	77	81	85	85	82	71	69	66	68	64	57	58	63	68	72	77	78	78	78		71.9	85.4
18-Jan-07	78	77	78	78	78	78	77	75	71	64	62	59	58	54	55	54	60	65	68	71	73	73	70	69		68.6	78.4
19-Jan-07	66	67	70	71	72	73	73	74	71	66	64	60	55	56	60	61	63	62	67	66	65	65	77	86		67.0	85.6
20-Jan-07	83	80	80	83	86	87	86	85	85	86	85	80	77	75	76	75	78	73	73	76	79	81	84	84		80.6	87.3
21-Jan-07	83	82	82	81	83	82	81	82	84	85	85	86	86	70	58	57	59	59	60	62	65	71	72	70		74.4	86.1
22-Jan-07	67	66	67	67	65	68	66	63	66	63	56	57	59	56	55	54	58	62	64	59	60	59	59	58		61.4	68.0
23-Jan-07	58	57	65	63	61	63	65	71	72	68	66	66	65	60	58	60	62	70	76	82	84	82	82	79		68.2	83.5
24-Jan-07	81	79	79	79	78	79	79	76	71	70	66	61	55	55	55	57	62	66	68	70	71	70	70	64		69.3	80.7
25-Jan-07	66	66	67	61	62	60	58	56	57	53	50	50	47	43	37	34	32	33	35	38	43	56	61	61		51.1	66.8
26-Jan-07	62	61	62	60	55	50	51	50	50	43	39	31	31	30	35	39	47	57	55	54	55	57	54	59		49.5	61.7
27-Jan-07	65	70	71	71	73	74	75	76	74	66	61	57	52	40	37	37	40	46	51	53	53	52	50	54		58.2	75.9
28-Jan-07	57	59	52	43	42	43	46	49	50	47	46	44	42	42	41	41	43	50	55	58	60	63	65	68		50.2	68.3
29-Jan-07	71	73	74	74	76	79	79	80	78	72	68	61	54	50	50	49	51	56	61	67	70	72	72	72		67.0	80.4
30-Jan-07	72	66	64	64	64	63	67	74	75	78	74	67	77	82	84	86	85	82	81	83	83	76	72	70		74.5	85.6
31-Jan-07	72	72	74	72	72	72	71	74	75	72	69	68	69	67	67	69	71	73	78	82	82	81	79	80		73.3	82.2
Hourly Avg	65.4	65.9	66.1	65.7	66.4	66.3	66.2	66.8	66.5	64.5	61.5	58.5	56.1	54.1	53.8	54.4	56.6	59.1	61.1	62.8	64.2	64.6	65.0	65.3			
Hourly Max	85.8	85.5	85.5	84.1	86.8	87.3	85.6	85.3	85.4	85.6	85.4	86.1	86.1	81.6	84.0	85.6	84.9	81.6	81.3	83.4	83.5	82.1	83.7	85.6			

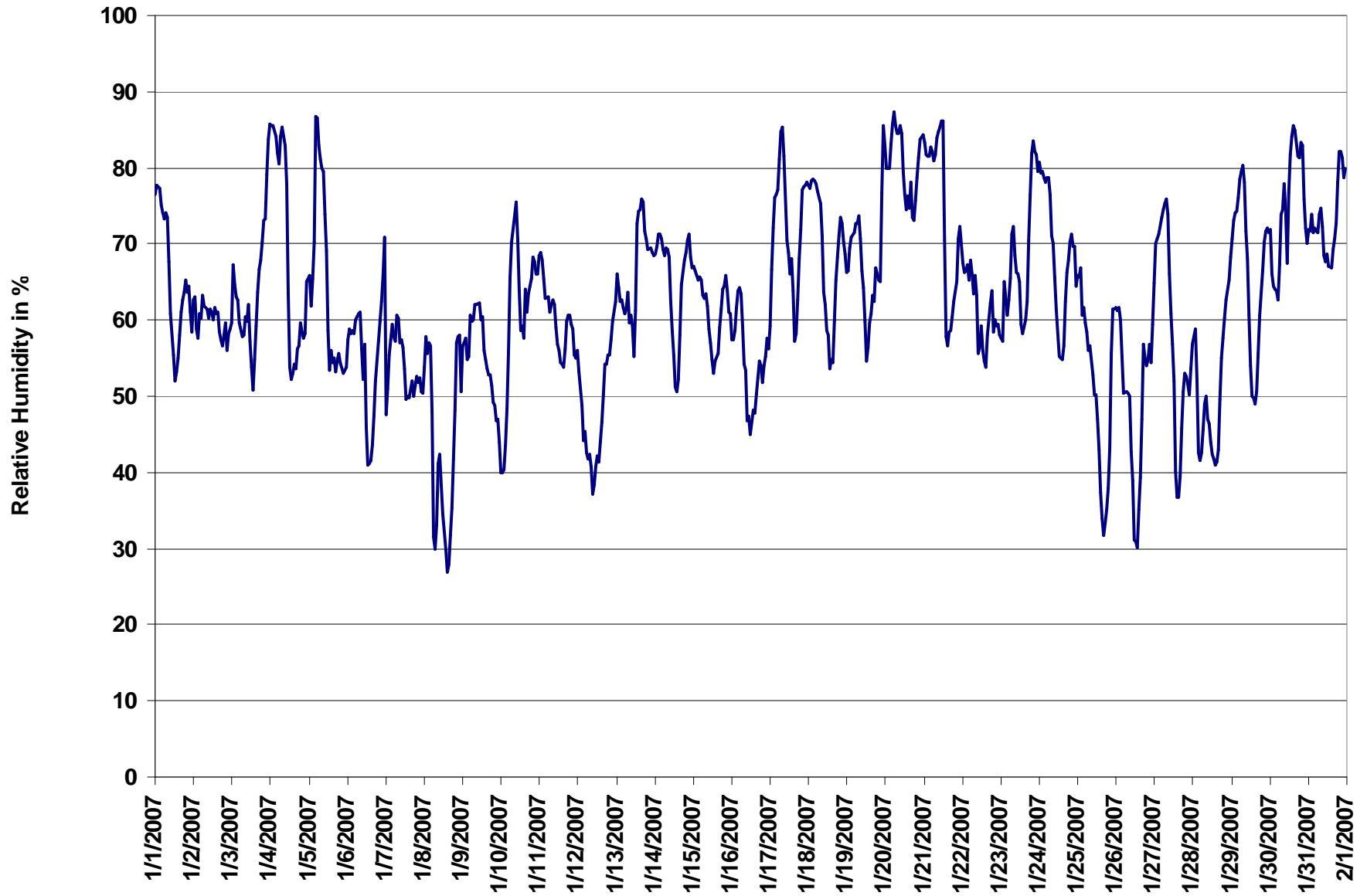


Figure 13. PAS - Crescent Heights Relative Humidity 1-hr Average Monthly Trend



PAS - Crescent Heights - Temperature Monthly Summary

Station: Crescent Heights
Station Owner: PAS

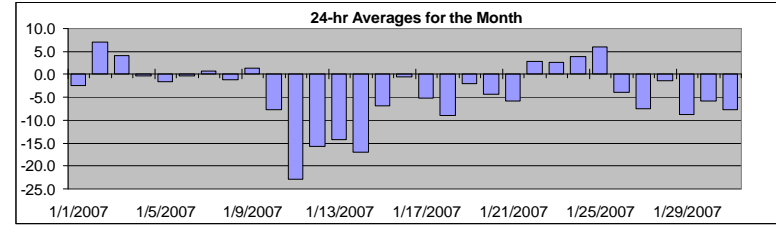
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: January 1, 2007 to February 1, 2007

Summary

Maximum 1-hr Average:	13.5 °C	25-Jan	14:00 15:00
Maximum 24-hr Value:	7.1 °C	2-Jan	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	9.5	6.9	1.5	-2.6	-9.1	-19.2	-23.9	-4.0 °C	-2.6 °C

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum
1-Jan-07	-10	-11	-11	-11	-12	-11	-11	-11	-11	-7	-3	1	3	5	5	5	4	4	4	3	4	4	5	6	-2.3	5.7
2-Jan-07	5	5	6	7	6	6	6	6	6	7	7	7	8	8	8	8	9	9	9	8	8	8	8	7	7.1	8.8
3-Jan-07	7	6	7	7	6	6	5	5	4	4	5	5	6	6	6	5	4	2	2	1	0	0	-1	-2	4.0	7.4
4-Jan-07	-3	-4	-5	-5	-5	-4	-3	-2	0	1	1	3	3	3	4	4	3	2	2	1	0	0	-1	-2	-0.3	3.7
5-Jan-07	-2	-1	-1	-2	-3	-3	-3	-4	-5	-5	-3	-2	-1	0	0	0	-1	-1	-1	-1	0	0	0	0	-1.7	0.0
6-Jan-07	0	0	0	1	1	0	1	1	1	2	2	1	2	2	1	1	0	-1	-2	-2	-3	-4	-4	-5	-0.3	2.0
7-Jan-07	-4	-5	-6	-5	-5	-5	-4	-4	-3	-1	0	1	2	4	4	5	5	5	5	5	5	5	6	5	0.7	5.6
8-Jan-07	4	2	1	1	1	2	2	1	0	-1	-1	0	0	1	1	0	-1	-3	-4	-5	-8	-8	-8	-5	-1.3	4.0
9-Jan-07	-6	-6	-6	-4	-4	-5	-4	-3	-3	-2	-2	1	2	6	7	7	7	7	7	7	7	7	6	6	1.3	7.5
10-Jan-07	7	7	7	7	6	5	-1	-5	-7	-9	-10	-11	-10	-10	-11	-12	-14	-15	-16	-16	-17	-18	-19	-19	-7.6	7.0
11-Jan-07	-19	-19	-20	-21	-22	-23	-24	-25	-26	-27	-26	-24	-24	-22	-21	-21	-22	-23	-24	-24	-23	-23	-23	-22	-22.9	-19.3
12-Jan-07	-21	-21	-20	-20	-20	-19	-18	-17	-17	-15	-14	-13	-12	-11	-11	-11	-12	-13	-14	-15	-16	-16	-16	-16	-15.7	-10.8
13-Jan-07	-17	-17	-17	-17	-17	-17	-17	-17	-15	-14	-12	-10	-9	-9	-9	-9	-11	-12	-14	-15	-16	-16	-17	-18	-14.3	-8.6
14-Jan-07	-18	-19	-20	-22	-23	-23	-24	-23	-22	-21	-18	-16	-14	-11	-9	-9	-11	-13	-15	-16	-16	-16	-15	-15	-17.1	-9.1
15-Jan-07	-15	-15	-14	-15	-15	-15	-13	-12	-11	-9	-7	-4	-2	-1	0	0	-1	-1	-2	-3	-3	-3	-3	-3	-6.9	0.1
16-Jan-07	-1	-2	-2	-3	-4	-4	-4	-3	-2	-1	2	2	2	3	2	2	1	0	0	1	0	-1	-2	-1	-0.6	2.7
17-Jan-07	-2	-4	-6	-7	-7	-6	-5	-4	-4	-3	-3	-1	0	0	0	-1	-2	-5	-7	-8	-10	-12	-13	-5.1	0.4	
18-Jan-07	-13	-12	-13	-13	-14	-15	-15	-15	-13	-11	-9	-7	-6	-3	-2	-1	-3	-5	-7	-8	-8	-8	-8	-7	-9.0	-1.3
19-Jan-07	-6	-6	-8	-8	-8	-8	-8	-8	-7	-5	-2	2	5	5	5	5	4	4	2	0	-1	-1	-2	-2	-2.0	4.9
20-Jan-07	-2	-2	-3	-3	-4	-6	-7	-8	-8	-6	-5	-3	-2	-1	-2	-2	-2	-2	-3	-4	-5	-7	-8	-9	-4.3	-1.3
21-Jan-07	-10	-12	-12	-11	-10	-10	-11	-11	-8	-7	-6	-5	-3	-1	0	0	-1	-1	-2	-2	-3	-5	-4	-3	-5.8	-0.2
22-Jan-07	-2	-2	-1	-1	1	1	1	1	0	1	4	5	5	6	6	7	6	5	4	5	5	4	4	4	2.9	6.6
23-Jan-07	4	4	2	3	4	3	2	0	0	1	2	3	3	6	7	7	7	7	4	2	0	0	-1	0	2.6	7.0
24-Jan-07	-1	0	0	0	0	0	0	1	3	4	6	8	10	10	9	8	7	6	5	4	3	3	3	3	3.8	10.1
25-Jan-07	3	2	2	3	3	3	3	4	4	6	7	8	10	12	13	13	12	11	9	8	7	4	1	0	6.1	13.5
26-Jan-07	-1	-1	-1	-1	-2	-2	-2	-3	-4	-3	-2	-1	-1	-1	-2	-4	-6	-7	-7	-8	-8	-9	-9	-10	-3.9	-0.6
27-Jan-07	-11	-13	-13	-14	-14	-14	-14	-14	-14	-12	-10	-7	-4	-2	-1	-1	-1	-3	-4	-4	-3	-3	-3	-3	-7.5	-0.6
28-Jan-07	-4	-4	-2	0	-1	-1	-2	-3	-3	-1	0	1	1	2	2	2	1	0	-2	-2	-3	-4	-5	-6	-1.4	1.8
29-Jan-07	-6	-8	-8	-9	-10	-11	-12	-12	-11	-10	-8	-7	-5	-4	-4	-4	-5	-7	-8	-10	-12	-13	-13	-12	-8.7	-4.0
30-Jan-07	-12	-10	-9	-9	-9	-8	-8	-8	-7	-5	-3	-1	-2	-2	-2	-2	-3	-4	-4	-4	-4	-5	-6	-9	-5.8	-1.4
31-Jan-07	-10	-10	-11	-11	-11	-11	-11	-11	-12	-11	-8	-7	-6	-5	-5	-5	-4	-4	-4	-4	-4	-5	-6	-6	-7.6	-3.9
Hourly Avg	-5.4	-5.8	-5.9	-6.0	-6.2	-6.3	-6.5	-6.6	-6.3	-5.2	-3.7	-2.3	-1.2	-0.2	0.1	-0.2	-1.0	-2.0	-2.8	-3.5	-4.1	-4.7	-4.9	-5.1		
Hourly Max	7.4	6.6	7.0	6.8	6.3	6.3	5.7	6.1	6.2	6.8	7.4	8.2	10.1	11.6	13.5	12.6	12.1	10.8	9.4	8.4	7.7	8.0	7.6	7.3		

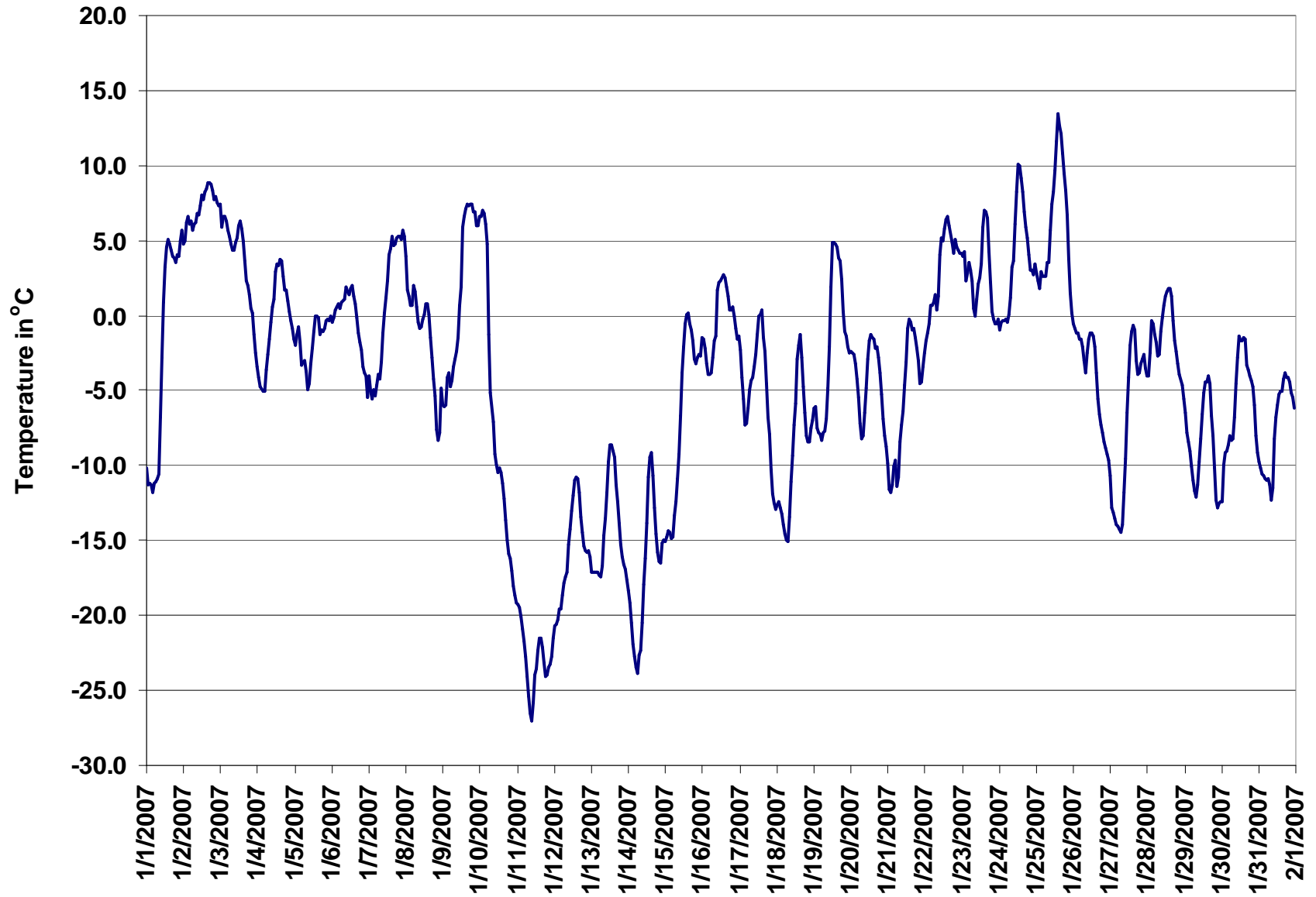


Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend



PAS - Crescent Heights - Solar Radiation Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

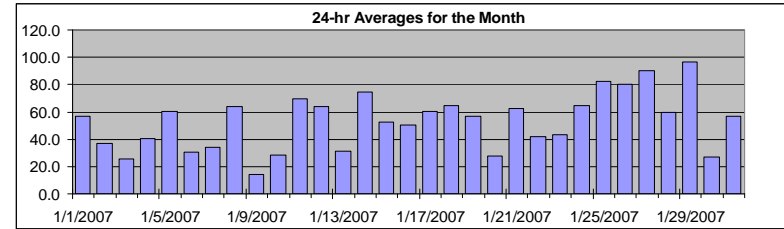
HOURLY AVERAGE TABLE

Solar Radiation (SR)

Monitoring Dates: January 1, 2007 to February 1, 2007

Summary

Maximum 1-hr Average:	410.0	W/m ²	29-Jan	12:00 13:00
Maximum 24-hr Value:	96.9	W/m ²	29-Jan	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	371.0	288.2	63.2	0.0	0.0	0.0	0.0	53.1 W/m ²	0.0 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	23:00 0:00		
1-Jan-07	0	0	0	0	0	0	0	0	21	110	200	267	278	260	189	39	4	0	0	0	0	0	0	0	57.0	278.5
2-Jan-07	0	0	0	0	0	0	0	0	18	147	172	199	157	85	85	25	2	0	0	0	0	0	0	0	37.1	199.2
3-Jan-07	0	0	0	0	0	0	0	0	7	47	143	89	138	91	62	37	7	0	0	0	0	0	0	0	25.9	142.6
4-Jan-07	0	0	0	0	0	0	0	0	6	30	77	315	157	177	138	63	10	0	0	0	0	0	0	0	40.6	315.2
5-Jan-07	0	0	0	0	0	0	0	0	8	99	208	280	297	277	193	69	12	0	0	0	0	0	0	0	60.2	296.6
6-Jan-07	0	0	0	0	0	0	0	0	6	33	52	85	138	226	123	56	8	0	0	0	0	0	0	0	30.4	226.4
7-Jan-07	0	0	0	0	0	0	0	0	6	22	35	59	154	267	199	64	7	0	0	0	0	0	0	0	33.9	266.9
8-Jan-07	0	0	0	0	0	0	0	0	6	117	235	302	250	316	222	80	12	0	0	0	0	0	0	0	64.1	315.6
9-Jan-07	0	0	0	0	0	0	0	0	3	19	35	56	77	79	40	21	3	0	0	0	0	0	0	0	13.9	79.3
10-Jan-07	0	0	0	0	0	0	0	0	8	25	54	85	154	151	102	81	18	0	0	0	0	0	0	0	28.3	153.7
11-Jan-07	0	0	0	0	0	0	0	0	12	58	216	326	343	327	248	105	29	0	0	0	0	0	0	0	69.4	342.6
12-Jan-07	0	0	0	0	0	0	0	0	21	124	196	219	284	319	239	106	29	0	0	0	0	0	0	0	64.0	319.3
13-Jan-07	0	0	0	0	0	0	0	0	9	48	86	114	200	116	89	63	16	0	0	0	0	0	0	0	30.9	199.7
14-Jan-07	0	0	0	0	0	0	0	0	15	144	246	322	342	327	247	112	34	0	0	0	0	0	0	0	74.6	341.7
15-Jan-07	0	0	0	0	0	0	0	0	15	66	134	169	238	289	217	106	20	0	0	0	0	0	0	0	52.2	288.7
16-Jan-07	0	0	0	0	0	0	0	0	17	89	244	222	192	219	137	80	16	0	0	0	0	0	0	0	50.7	243.8
17-Jan-07	0	0	0	0	0	0	0	0	9	78	129	269	343	294	243	48	35	0	0	0	0	0	0	0	60.3	342.6
18-Jan-07	0	0	0	0	0	0	0	0	26	138	180	274	253	321	227	104	24	0	0	0	0	0	0	0	64.5	320.8
19-Jan-07	0	0	0	0	0	0	0	0	25	103	164	272	329	234	147	69	18	0	0	0	0	0	0	0	56.7	329.5
20-Jan-07	0	0	0	0	0	0	0	0	10	41	122	161	136	94	65	33	9	0	0	0	0	0	0	0	28.0	161.3
21-Jan-07	0	0	0	0	0	0	0	0	11	41	95	309	318	343	229	113	34	1	0	0	0	0	0	0	62.2	343.0
22-Jan-07	0	0	0	0	0	0	0	0	15	140	240	219	135	105	95	42	9	0	0	0	0	0	0	0	41.7	239.5
23-Jan-07	0	0	0	0	0	0	0	0	33	92	96	58	106	265	188	141	57	1	0	0	0	0	0	0	43.2	264.7
24-Jan-07	0	0	0	0	0	0	0	1	35	159	268	357	322	201	133	59	19	1	0	0	0	0	0	0	64.8	357.2
25-Jan-07	0	0	0	0	0	0	0	1	40	199	227	326	347	367	364	61	50	3	0	0	0	0	0	0	82.7	367.5
26-Jan-07	0	0	0	0	0	0	0	0	41	173	287	374	393	382	206	58	14	1	0	0	0	0	0	0	80.4	393.1
27-Jan-07	0	0	0	0	0	0	0	0	44	178	283	365	381	378	292	166	70	3	0	0	0	0	0	0	90.1	380.9
28-Jan-07	0	0	0	0	0	0	0	0	42	176	288	275	191	163	150	92	57	2	0	0	0	0	0	0	60.0	288.4
29-Jan-07	0	0	0	0	0	0	0	1	59	184	291	381	410	399	319	189	88	3	0	0	0	0	0	0	96.9	410.0
30-Jan-07	0	0	0	0	0	0	0	0	4	31	95	116	123	139	81	36	13	1	0	0	0	0	0	0	26.7	139.5
31-Jan-07	0	0	0	0	0	0	0	1	21	99	177	220	220	232	198	128	59	3	0	0	0	0	0	0	56.6	232.0
Hourly Avg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	19.1	97.2	170.0	228.6	238.9	240.1	176.4	78.9	25.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0		
Hourly Max	0.1	0.2	0.2	0.2	0.2	0.3	0.2	1.3	59.3	199.4	291.2	380.7	410.0	399.0	364.1	189.3	88.1	3.4	0.2	0.1	0.2	0.1	0.1	0.1		

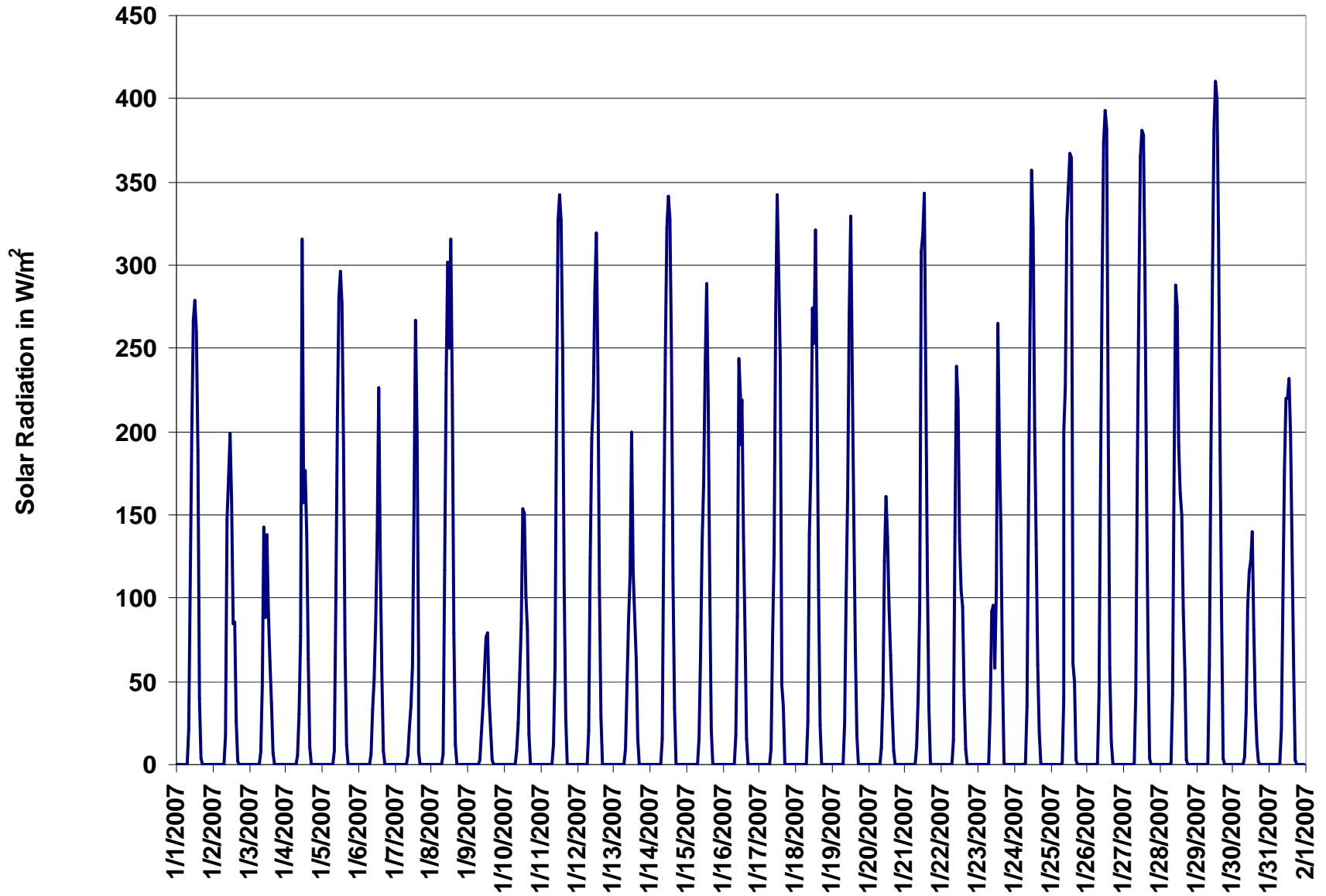


Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend



PAS - Crescent Heights - Scalar Wind Speed Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

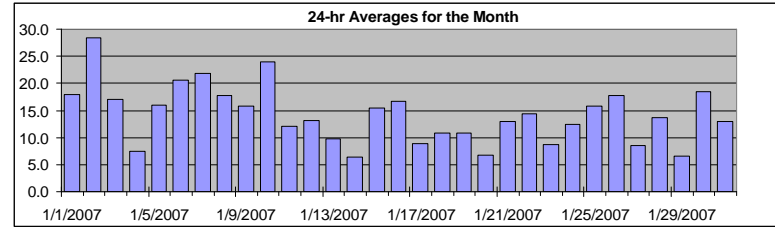
Wind Speed (WSs)

Monitoring Dates: January 1, 2007 to February 1, 2007

Summary

Maximum 1-hr Average:	43.6	km/hr	3-Jan	3:00 4:00
Maximum 24-hr Value:	28.4	km/hr	2-Jan	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	34.5	28.7	18.6	12.7	8.3	4.6	3.2	14.2 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-Jan-07	12	8	8	10	13	12	12	10	13	14	9	20	26	27	28	29	26	26	23	17	23	22	20	23	18.0	28.7
2-Jan-07	22	23	16	25	35	34	31	31	20	23	27	25	26	27	33	32	36	34	26	28	32	32	31	33	28.4	36.3
3-Jan-07	34	20	33	44	41	30	25	21	16	14	13	14	13	15	10	11	10	9	9	9	6	6	3	3	17.1	43.6
4-Jan-07	2	6	4	6	6	9	8	9	12	10	13	13	9	8	6	4	4	6	8	7	8	8	8	6	7.5	13.3
5-Jan-07	8	11	11	13	13	7	6	5	8	13	19	22	22	17	15	16	18	18	23	25	18	21	24	31	16.0	30.8
6-Jan-07	29	22	20	24	22	22	25	19	17	17	23	31	34	34	28	24	19	15	14	11	10	12	12	10	20.7	33.8
7-Jan-07	14	11	11	15	19	20	16	11	15	26	32	32	41	40	29	20	19	22	24	23	24	21	23	18	21.9	40.6
8-Jan-07	19	14	9	9	11	18	31	36	36	31	31	29	28	23	17	12	8	7	6	7	7	6	10	21	17.7	36.5
9-Jan-07	12	11	13	17	11	5	6	7	7	7	6	5	21	25	27	22	23	27	26	25	27	25	22	22	15.8	27.2
10-Jan-07	24	25	26	30	30	30	25	24	25	23	19	20	22	23	24	24	23	21	22	25	23	24	23	23	24.0	30.0
11-Jan-07	17	17	19	19	17	18	19	14	12	12	8	8	12	10	8	12	12	11	12	9	7	7	6	5	12.1	19.3
12-Jan-07	10	9	7	8	10	16	18	15	12	17	21	19	17	18	17	16	12	12	14	12	8	8	9	8	13.1	21.0
13-Jan-07	7	6	6	4	4	4	5	5	4	5	3	5	10	13	17	17	19	17	18	17	15	12	11	10	9.7	18.7
14-Jan-07	7	8	6	6	3	5	4	3	4	6	5	6	5	5	5	6	6	7	8	8	7	7	12	14	6.4	13.7
15-Jan-07	14	17	16	16	14	13	11	12	12	15	13	12	15	15	16	14	14	15	12	17	22	24	22	18	15.4	23.8
16-Jan-07	21	20	19	21	21	18	19	18	19	17	18	22	20	18	15	14	10	11	15	13	14	15	14	10	16.7	22.2
17-Jan-07	11	9	9	10	6	6	6	6	7	8	7	9	14	15	15	11	6	12	6	7	8	9	8	8	8.8	14.9
18-Jan-07	8	10	11	10	7	6	7	6	9	16	14	18	14	13	13	9	8	13	13	11	11	10	12	8	10.8	18.4
19-Jan-07	11	15	11	12	10	9	7	10	8	5	5	14	21	21	20	16	9	8	9	11	8	5	8	8	10.8	21.4
20-Jan-07	6	4	4	3	4	4	5	4	6	7	6	7	9	8	9	10	9	10	10	8	9	10	4	5	6.7	10.3
21-Jan-07	5	6	8	5	9	6	7	9	9	14	13	12	13	19	23	23	21	21	19	17	19	14	11	8	13.0	23.5
22-Jan-07	10	16	16	13	18	16	11	14	7	9	12	16	14	16	18	17	15	11	12	20	19	14	17	16	14.4	20.1
23-Jan-07	16	15	12	14	17	11	11	6	7	6	6	4	4	9	10	3	8	6	5	5	7	8	10	10	8.8	17.1
24-Jan-07	8	9	7	8	10	8	10	14	15	13	14	14	14	15	15	17	14	12	16	13	12	12	13	15	12.4	17.2
25-Jan-07	16	12	15	18	11	10	12	19	15	14	19	19	21	21	22	19	10	13	16	18	15	20	14	11	15.8	22.4
26-Jan-07	12	10	9	10	12	11	11	10	12	13	18	28	27	27	25	33	28	22	22	23	21	15	16	11	17.7	33.1
27-Jan-07	9	7	7	5	3	4	4	3	5	6	6	6	11	15	13	12	10	4	9	9	11	11	18	19	8.5	19.2
28-Jan-07	17	9	7	9	10	10	10	7	10	14	15	18	15	18	20	21	19	14	14	17	16	16	12	10	13.6	20.9
29-Jan-07	8	9	8	9	7	3	4	4	4	6	8	7	6	7	9	7	9	7	5	6	6	7	9	9	6.6	9.0
30-Jan-07	8	12	18	18	21	22	21	16	10	11	10	20	17	14	14	18	29	26	26	24	25	24	22	19	18.5	29.1
31-Jan-07	17	15	10	5	5	3	9	8	9	10	7	11	15	13	14	14	8	12	17	15	26	27	21	20	13.0	26.7
1-hr Average	13.4	12.4	12.1	13.4	13.5	12.6	12.8	12.1	11.8	12.9	13.6	15.7	16.8	17.5	17.1	16.4	14.8	14.3	14.9	14.8	14.8	14.6	14.5	13.8		
Hourly Max	34.5	24.8	33.2	43.6	41.0	34.4	31.4	35.7	36.5	31.0	32.5	32.2	40.6	40.1	32.5	33.1	36.3	34.3	27.2	27.7	31.9	32.4	31.3	32.5		



PAS - Crescent Heights - Vector Wind Speed Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

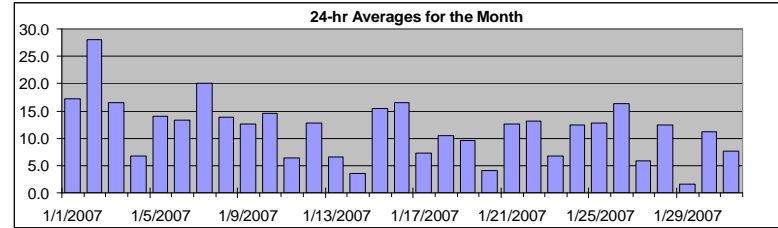
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: January 1, 2007 to February 1, 2007

Summary

Maximum 1-hr Average:	43.5	km/hr	3-Jan	3:00 4:00
Maximum 24-hr Value:	28.1	km/hr	2-Jan	



Calm Time:	3 hrs	0% calms	Operational Time:	741 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	34.4	28.6	18.5	12.5	8.1	3.9	1.8	8.8 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
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-Jan-07	11	8	8	10	13	12	12	10	13	14	9	19	26	27	28	29	25	26	22	17	23	22	20	23	17.3	28.6	
2-Jan-07	20	23	15	25	34	34	31	31	20	22	27	25	26	27	32	32	36	34	26	27	32	32	31	32	28.1	36.2	
3-Jan-07	34	19	33	44	41	30	25	21	16	13	12	14	13	15	10	11	10	9	9	9	5	5	2	1	16.6	43.5	
4-Jan-07	1	5	4	5	6	9	7	8	11	10	13	13	9	8	4	3	3	5	8	7	7	8	7	6	6.7	13.2	
5-Jan-07	8	10	11	13	13	6	6	5	7	12	19	21	22	17	15	16	18	17	23	25	18	21	24	31	14.0	30.6	
6-Jan-07	28	22	20	24	22	22	25	19	16	17	23	31	33	34	28	24	19	15	13	11	10	12	12	10	13.4	33.6	
7-Jan-07	14	11	11	15	19	19	16	9	15	26	32	32	40	40	29	20	18	21	24	23	24	21	22	17	20.1	40.4	
8-Jan-07	17	14	9	9	11	17	31	36	36	31	31	29	28	23	16	12	7	6	6	6	4	6	10	20	13.9	36.3	
9-Jan-07	12	10	13	17	10	5	5	5	7	7	6	5	3	21	25	27	22	23	27	26	25	26	24	22	12.5	27.1	
10-Jan-07	24	25	25	30	30	29	24	24	25	23	19	20	21	22	24	24	23	21	22	25	23	24	23	23	14.5	29.9	
11-Jan-07	17	17	19	19	17	18	19	14	12	12	8	6	12	9	6	11	12	11	12	9	7	7	5	4	6.3	19.3	
12-Jan-07	10	8	7	7	10	16	18	15	12	17	21	19	17	18	17	16	12	12	14	12	8	8	9	7	12.8	20.9	
13-Jan-07	7	5	6	3	4	4	4	4	1	4	2	2	10	13	17	17	19	16	18	16	15	12	11	10	6.6	18.6	
14-Jan-07	7	7	6	6	3	5	4	calm	4	6	5	6	5	5	5	6	6	6	8	7	7	6	12	13	3.5	13.4	
15-Jan-07	14	16	16	16	14	13	11	12	12	15	13	12	15	15	16	14	14	15	11	17	22	24	22	18	15.4	23.7	
16-Jan-07	21	20	19	21	21	18	19	18	19	17	18	22	20	17	15	13	10	11	15	13	14	15	14	9	16.4	22.1	
17-Jan-07	11	8	8	10	4	6	5	5	7	8	7	9	14	15	14	11	6	12	6	6	8	9	8	8	7.3	14.5	
18-Jan-07	8	10	11	10	6	6	6	5	8	16	14	18	14	12	12	9	8	13	13	11	11	10	11	8	10.4	18.3	
19-Jan-07	11	15	11	12	9	9	7	9	8	4	3	13	21	21	19	16	9	8	8	10	8	4	7	8	9.7	21.2	
20-Jan-07	6	4	3	2	4	3	5	4	5	6	6	6	8	8	8	10	9	10	10	7	9	10	3	3	4.1	10.2	
21-Jan-07	5	6	8	5	9	6	7	9	8	14	13	11	13	19	23	22	21	21	19	17	18	14	11	7	12.7	23.3	
22-Jan-07	10	15	16	13	18	16	11	13	6	9	11	16	14	16	18	17	15	11	12	20	19	14	16	15	13.1	20.0	
23-Jan-07	15	15	12	14	17	10	9	6	5	6	6	3	4	8	10	2	7	6	4	3	7	8	10	10	6.7	17.1	
24-Jan-07	8	9	6	8	10	8	9	14	15	13	14	14	14	15	15	17	14	12	16	13	12	12	13	15	12.4	17.0	
25-Jan-07	15	11	15	18	11	9	11	18	14	14	19	18	21	21	22	18	8	13	16	18	14	19	14	10	12.7	22.2	
26-Jan-07	12	10	9	10	12	10	11	10	12	13	18	28	27	27	24	33	28	22	22	23	21	15	16	11	16.3	32.8	
27-Jan-07	9	7	7	4	calm	3	4	2	4	5	6	5	10	15	12	11	10	4	9	9	10	11	18	19	5.9	19.2	
28-Jan-07	17	8	6	9	9	10	10	6	9	14	14	18	14	18	20	21	19	14	13	17	16	16	12	9	12.3	20.8	
29-Jan-07	7	8	8	9	7	2	3	3	calm	5	7	6	2	6	8	7	9	7	4	6	6	5	9	8	1.5	8.6	
30-Jan-07	7	12	17	18	21	22	21	16	10	10	9	20	17	13	14	16	29	26	26	24	25	24	22	18	11.1	29.0	
31-Jan-07	17	15	9	4	4	2	9	8	9	10	7	10	14	12	13	14	8	12	17	15	25	27	21	20	7.7	26.6	
1-hr Vector	9.2	8.6	9.0	10.2	10.0	9.2	9.1	8.7	8.2	8.5	8.2	9.1	10.0	11.0	10.4	9.3	7.9	8.1	8.4	8.6	8.1	7.6	8.1	8.0			
Hourly Max	34.4	24.8	33.1	43.5	40.9	34.3	31.3	35.6	36.3	30.9	32.3	32.1	40.4	40.0	32.4	32.8	36.2	34.2	27.1	27.4	31.7	32.3	31.3	32.4			



PAS - Crescent Heights - Wind Direction Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: January 1, 2007 to February 1, 2007

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	355.8	342.2	269.6	233.3	215.9	69.2	7.6	252 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jan-07	246	258	252	241	234	235	228	231	226	234	258	215	212	211	213	212	215	217	227	228	228	226	252	264	228	SW	
2-Jan-07	229	231	222	232	225	218	225	231	243	236	236	214	218	213	212	213	214	217	209	212	218	215	217	218	221	SW	
3-Jan-07	220	235	241	236	235	240	251	262	258	237	223	253	245	260	236	229	242	236	230	234	211	236	223	125	239	WSW	
4-Jan-07	29	243	245	243	227	230	240	229	241	238	218	226	253	288	276	264	256	260	279	265	302	265	290	308	253	WSW	
5-Jan-07	256	285	291	324	338	245	250	270	253	227	206	209	222	236	217	216	225	246	239	240	254	244	225	230	239	WSW	
6-Jan-07	224	211	206	213	213	222	234	237	254	281	323	335	337	335	328	327	321	318	294	272	263	258	250	227	275	W	
7-Jan-07	260	231	241	229	227	228	231	241	210	205	211	210	220	228	234	254	261	265	270	268	269	268	272	271	239	WSW	
8-Jan-07	300	304	280	287	269	313	326	328	328	331	339	332	332	326	324	317	300	257	230	220	188	208	193	209	312	NW	
9-Jan-07	229	255	233	225	218	119	79	64	74	90	89	73	94	208	209	210	201	195	203	201	202	202	208	209	202	SSW	
10-Jan-07	211	207	200	205	213	236	286	291	294	301	300	300	306	315	322	323	326	325	336	347	357	3	360	7	298	WNW	
11-Jan-07	1	2	349	352	350	353	352	345	333	330	318	266	234	259	253	220	220	219	222	233	227	200	221	217	307	NW	
12-Jan-07	232	227	210	220	233	225	229	234	245	241	234	235	230	238	234	231	245	241	239	230	218	216	209	182	231	SW	
13-Jan-07	155	130	118	132	123	107	119	182	317	8	82	320	350	352	9	12	13	29	47	53	54	50	67	101	42	NE	
14-Jan-07	78	69	104	111	94	122	120	158	112	125	129	120	143	135	141	218	245	232	219	225	214	219	235	221	170	S	
15-Jan-07	233	234	235	233	229	237	225	224	232	239	230	231	230	226	224	228	227	229	239	236	231	233	229	227	231	SW	
16-Jan-07	216	217	231	235	242	239	240	238	229	237	233	237	233	216	217	213	208	217	229	233	230	233	242	251	230	SW	
17-Jan-07	280	291	292	323	265	241	248	252	246	280	292	295	309	303	314	351	305	321	310	245	233	240	230	220	285	WNW	
18-Jan-07	223	241	237	233	197	172	175	205	237	230	236	230	227	220	223	224	223	237	239	243	233	227	232	225	227	SW	
19-Jan-07	217	233	242	232	229	210	226	227	219	222	233	222	220	227	230	234	239	277	301	310	303	316	236	241	237	WSW	
20-Jan-07	239	210	175	183	99	99	125	103	7	63	52	51	48	72	39	51	48	31	36	9	351	350	350	304	42	NE	
21-Jan-07	218	209	251	222	234	268	218	234	227	225	221	219	210	205	203	206	213	216	229	236	232	233	230	210	221	SW	
22-Jan-07	212	221	225	206	224	232	225	240	202	195	225	229	232	262	270	269	258	246	245	275	277	270	271	272	245	WSW	
23-Jan-07	269	260	236	262	277	271	267	121	195	225	218	149	143	212	228	129	203	250	136	163	211	227	228	233	234	SW	
24-Jan-07	217	225	236	244	233	230	241	236	232	228	226	225	228	230	230	231	239	246	238	239	236	232	239	230	233	SW	
25-Jan-07	235	242	230	221	246	256	263	240	249	239	235	238	226	228	225	237	315	269	255	275	275	350	359	346	252	WSW	
26-Jan-07	332	315	298	297	306	290	285	296	304	298	302	323	327	329	334	345	352	356	353	357	3	4	359	358	333	NNW	
27-Jan-07	334	319	311	291	345	179	215	239	161	150	123	171	213	195	189	203	204	167	206	229	238	258	243	238	222	SW	
28-Jan-07	240	231	256	295	325	329	297	290	279	296	324	332	324	319	322	323	323	313	311	324	322	319	321	316	311	NW	
29-Jan-07	313	315	308	310	360	35	353	321	19	131	129	121	91	40	42	54	105	90	84	114	109	192	210	217	62	ENE	
30-Jan-07	199	241	224	221	230	242	240	236	245	280	298	331	323	292	274	293	342	342	343	343	352	11	15	5	305	NW	
31-Jan-07	353	353	351	325	320	136	209	236	246	227	219	240	217	237	236	238	278	316	325	322	338	343	351	355	304	NW	
Hourly Avg	243	246	242	241	241	239	250	252	256	251	250	254	252	253	250	254	260	261	260	263	263	262	255	248			



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

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: January 1, 2007 to February 1, 2007

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	48.6	30.0	12.0	7.5	5.5	4.1	3.3

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

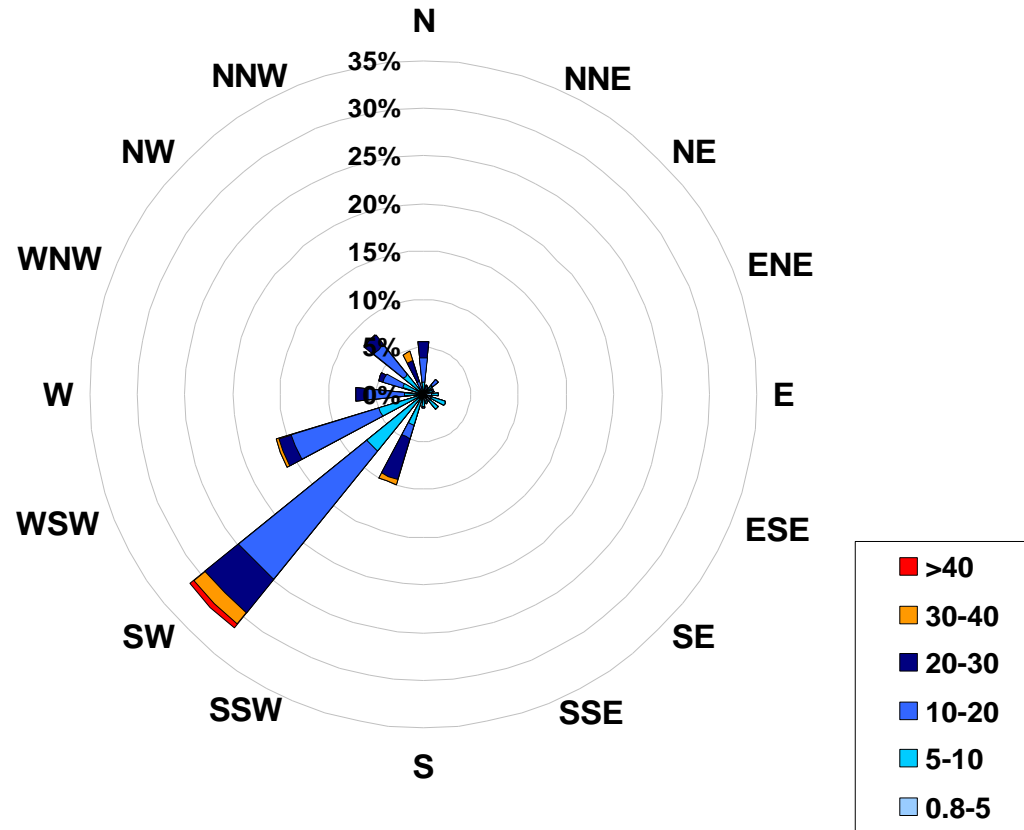
Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	Daily Maximum
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-Jan-07	7	8	7	7	5	6	7	12	7	9	17	16	5	6	5	6	5	6	7	5	5	4	7	4	4	16.7
2-Jan-07	8	7	11	5	4	4	5	4	7	6	5	5	5	5	6	4	4	6	6	6	4	4	3	3	3	11.2
3-Jan-07	3	8	5	3	4	5	6	5	6	13	12	7	9	6	9	8	15	5	10	7	35	8	34	62	62	61.8
4-Jan-07	49	25	26	23	10	4	8	9	16	19	5	8	12	13	49	49	35	11	7	19	9	9	11	21	21	48.8
5-Jan-07	12	8	10	7	8	33	12	19	9	8	5	6	6	7	9	6	7	7	6	4	7	6	7	5	5	32.9
6-Jan-07	5	5	6	5	5	4	5	6	7	7	6	5	5	5	5	5	6	9	9	6	13	8	11	11	11	12.8
7-Jan-07	10	11	8	7	4	3	14	13	12	5	5	5	5	4	5	6	5	4	5	5	4	5	5	6	6	13.6
8-Jan-07	18	12	10	14	6	10	5	4	5	4	6	6	6	6	8	8	9	11	8	16	29	22	10	5	5	29.3
9-Jan-07	10	12	11	6	10	12	11	19	12	12	15	28	30	9	5	4	5	5	5	4	5	4	5	4	4	30.0
10-Jan-07	4	4	4	4	5	7	8	7	8	8	10	10	9	7	6	6	5	5	5	4	6	5	5	5	5	9.9
11-Jan-07	6	4	4	5	4	5	5	7	7	6	15	28	16	16	28	16	8	6	6	14	11	10	29	41	41	40.9
12-Jan-07	23	11	12	14	13	5	5	9	10	7	6	6	7	6	7	6	7	5	5	6	10	7	8	15	15	22.8
13-Jan-07	9	17	10	26	26	19	24	26	40	25	39	45	11	6	5	5	5	6	8	5	4	7	8	9	9	45.3
14-Jan-07	11	9	9	8	13	14	13	43	13	7	20	19	19	18	25	21	18	13	8	6	11	11	6	10	10	42.6
15-Jan-07	4	4	5	5	5	6	7	6	6	6	7	6	6	7	5	6	6	5	7	4	3	3	4	5	5	7.3
16-Jan-07	5	6	5	6	4	4	4	5	4	5	6	5	7	5	4	6	6	8	6	10	4	6	6	37	37	36.8
17-Jan-07	12	18	16	9	40	13	13	12	13	12	14	13	9	9	9	9	17	7	24	36	4	5	6	6	6	40.1
18-Jan-07	6	7	6	5	19	17	12	38	20	5	8	7	7	9	11	12	7	5	6	7	5	7	5	12	12	38.3
19-Jan-07	7	6	9	13	12	9	9	8	6	50	29	15	7	6	4	4	8	11	9	10	13	27	11	13	13	49.6
20-Jan-07	10	22	37	37	27	13	13	22	17	11	10	11	7	12	8	9	10	6	6	9	5	5	34	36	36	37.5
21-Jan-07	20	11	15	12	7	13	9	6	8	7	7	8	11	8	6	4	5	5	11	9	7	5	5	9	9	20.2
22-Jan-07	8	6	6	7	6	5	10	8	19	14	10	6	7	10	6	5	6	6	9	4	4	6	5	6	6	19.4
23-Jan-07	6	7	9	6	5	7	30	32	18	10	17	34	26	16	10	56	10	19	32	38	8	7	6	9	9	55.7
24-Jan-07	12	13	27	14	7	8	12	8	8	6	5	7	7	8	7	6	10	6	4	5	3	4	5	7	7	27.3
25-Jan-07	5	7	6	8	13	19	16	11	12	11	7	7	5	5	5	16	19	9	8	6	7	10	4	5	5	18.8
26-Jan-07	8	11	13	11	9	8	8	9	10	9	9	7	7	7	7	6	4	5	5	5	5	4	4	5	6	12.9
27-Jan-07	9	21	12	23	51	35	26	49	30	18	16	29	19	12	13	13	11	30	10	11	9	8	7	4	4	50.9
28-Jan-07	5	14	51	10	10	9	11	29	12	8	12	8	9	7	8	6	5	7	9	5	5	6	8	8	8	50.6
29-Jan-07	10	8	8	10	13	21	36	33	27	12	18	21	41	24	16	19	16	4	13	8	8	14	8	9	9	41.0
30-Jan-07	19	15	8	6	6	9	7	6	17	12	12	6	6	9	7	8	4	4	4	3	4	6	6	4	4	19.2
31-Jan-07	4	6	13	33	26	43	11	12	9	13	22	15	12	11	8	9	10	7	5	7	5	3	5	4	4	42.6

Hourly Max	49	25	51	37	51	43	36	49	40	50	39	45	41	24	49	56	35	30	32	38	35	27	34	62	62
------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----



**1-hr Average Wind Rose (in km/hr) Located at the Crescent Heights Site
for January 2007**



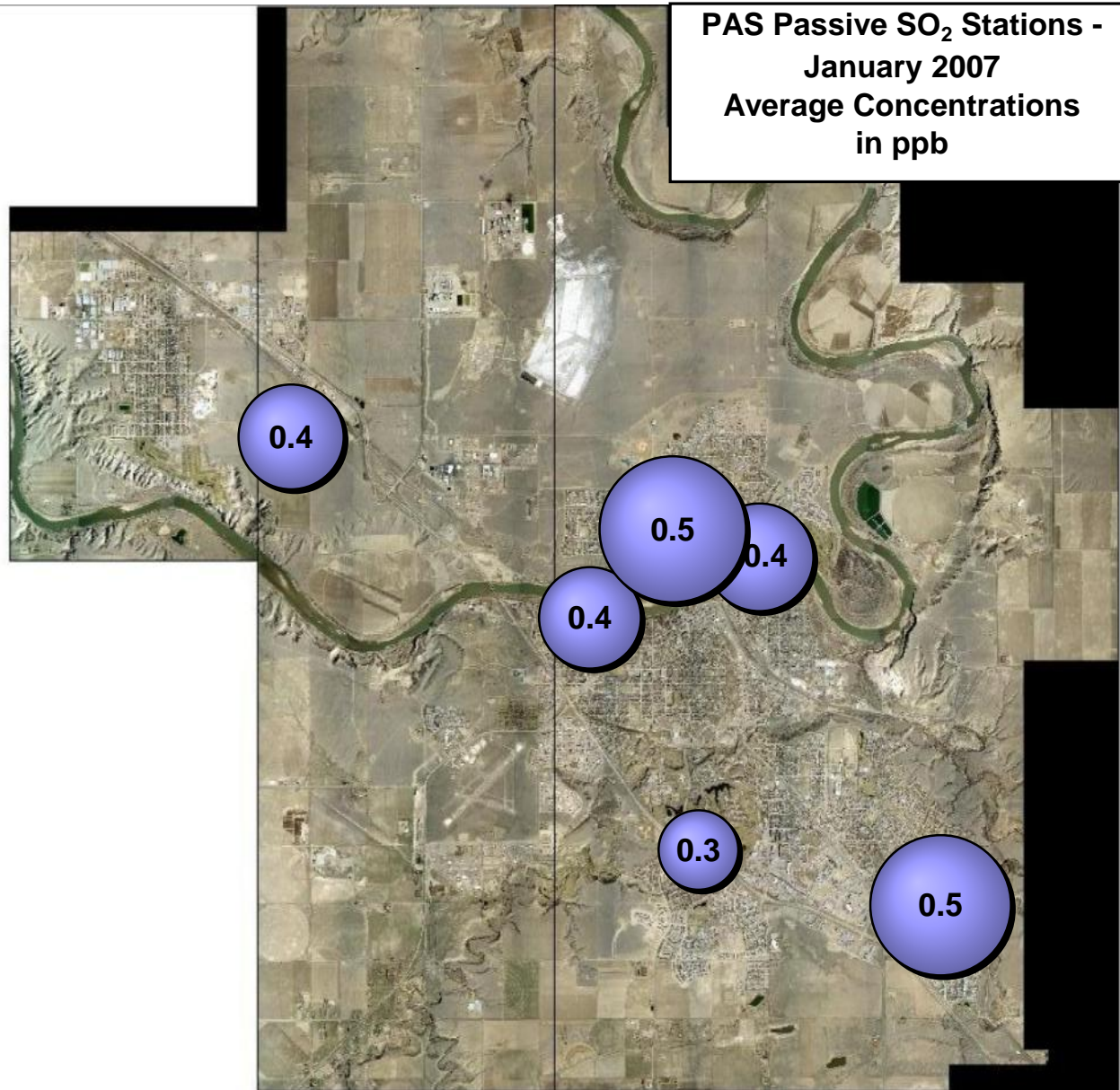
Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	47
5	to	10	214
10	to	20	321
20	to	30	131
30	to	40	27
	>	40	4
Total Non-Zero Values			744



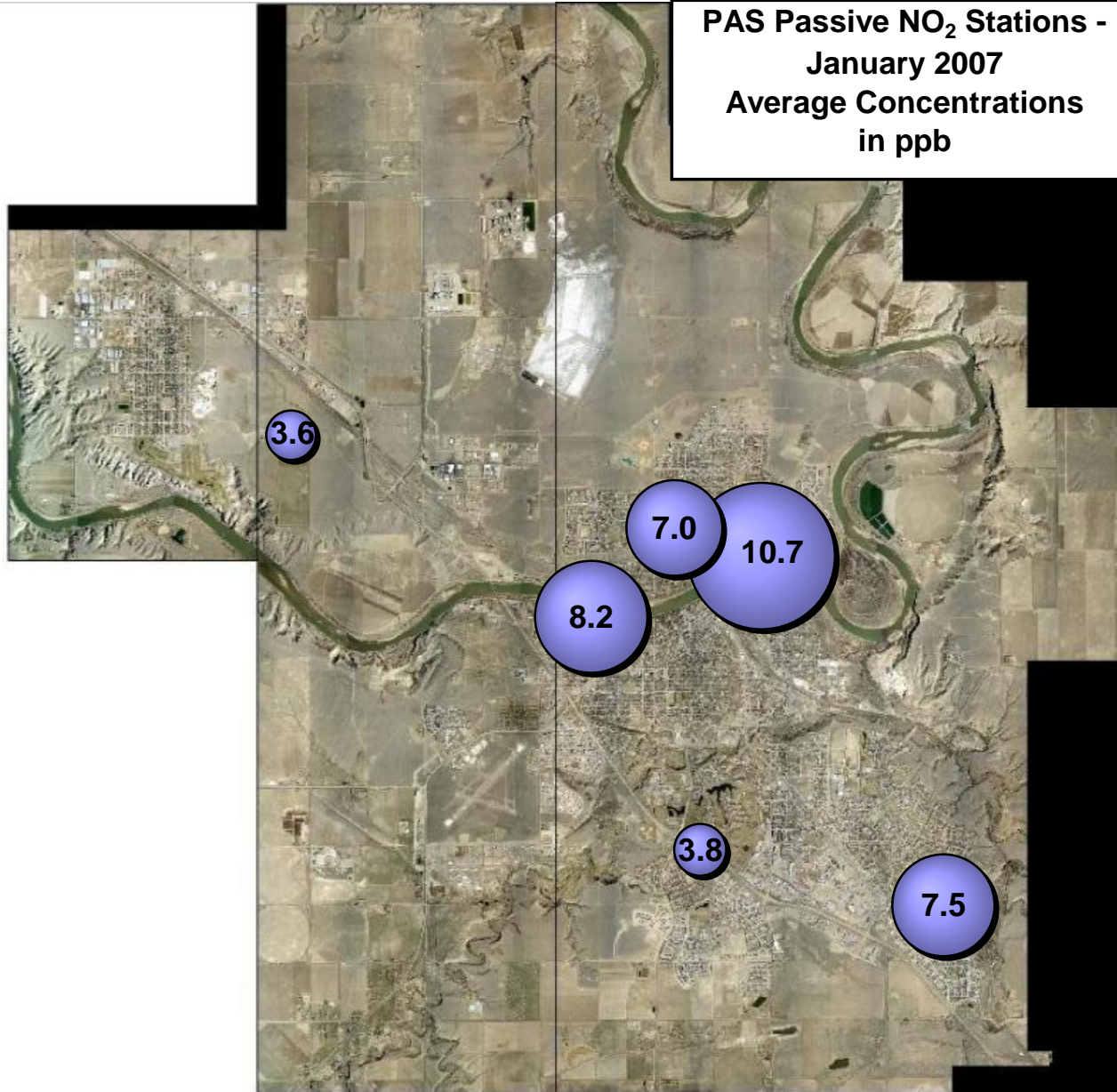
Passive Monitoring – January 2007

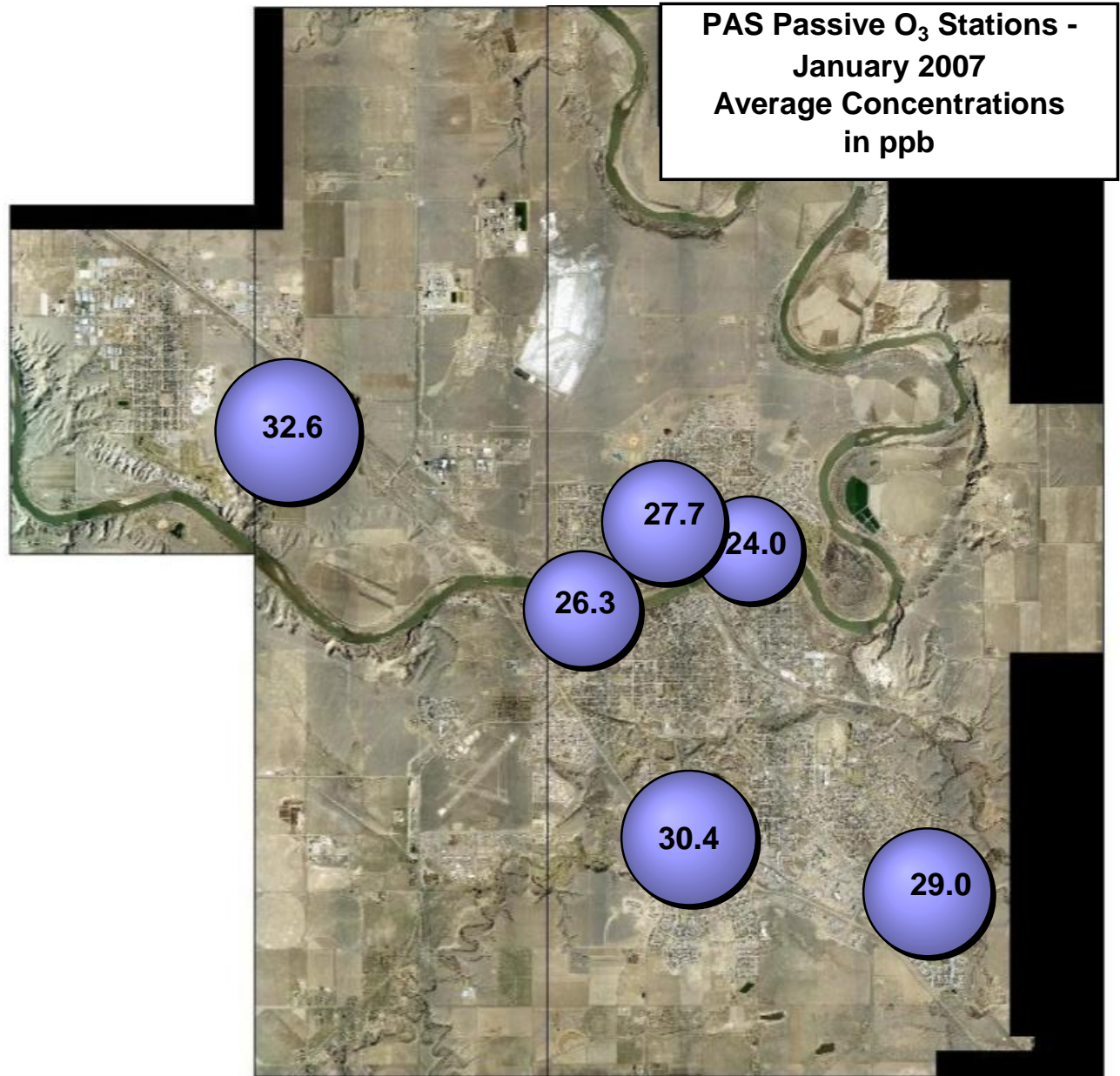
Station Number	Station Name	SO ₂ ppb	O ₃ ppb	NO ₂ ppb	Easting	Northing	Elevation
Duplicates							
4a	Redcliff	0.4	33.6	3.6			
4b		0.3	31.6	-			
1	Hospital	0.4	26.3	8.2	521648	5542721	698
2	Ball Park	0.4	24.0	10.7	524019	5543686	660
3	Monitoring Station	0.5	27.7	7.0	522812	5544133	714
4	Redcliff	0.4	32.6	3.6	517448	5545608	725
5	Southridge	0.3	30.4	3.8	523172	5539016	721
6	Christian School Park	0.5	29.0	7.5	526577	5538133	709
Stats:							
	Mean	0.4	28.4	6.8			
	Standard Deviation	0.1	3.0	2.7			
	Minimum	0.3			5	Southridge	
	Maximum	0.5			3	Monitoring Station	
	Minimum		24.0		2	Ball Park	
	Maximum		32.6		4	Redcliff	
	Minimum			3.6	4a	Redcliff	
	Maximum			10.7	2	Ball Park	





**PAS Passive NO₂ Stations -
January 2007
Average Concentrations
in ppb**





Palliser Airshed Society January 2007 - Calibration Reports

Crescent Heights Station: O₃, NO_x, NO, NO₂, THC, CO and PM_{2.5}

Calibration Report

Parameter 03
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	January 17, 2007	Previous Calibration	December 12, 2006
Station Number	101	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Calibration	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	8:25	End Time (MST)	15:16
Barometric Pressure	27.6 inches Hg	Station Temperature	19.3 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 1 volt	DACS channel #	5
	<u>Before</u>		<u>After</u>
Calculated slope	0.988561	Calculated slope	0.969716
Calculated intercept	1.908163	Calculated intercept	3.475936
Analyzer make	API Model 400E	Analyzer serial #	331

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Offset	-7.6	ppb	-10.9	ppb
Slope	1.113		1.063	
Lamp measure	4659.0	mV	4843.5	mV
Lamp Reference	4667.5	mV	4845.8	mV
Pressure	25.8	inches Hg	26.5	inches Hg
Sample Flow	665	ccm	683	ccm
Sample temp	35.6	Deg C	39.8	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)
4988	0.0	0.0	-3.3	N/A
4988	300.0	275.6	281.5	0.9792
4988	200.0	187.3	188.1	0.9955
4988	100.0	97.8	97.6	1.0023
4988	0.0	0.0	-2.7	0.0000
4988	300.0	275.6	282.2	0.9765
Average Correction Factor				0.9923

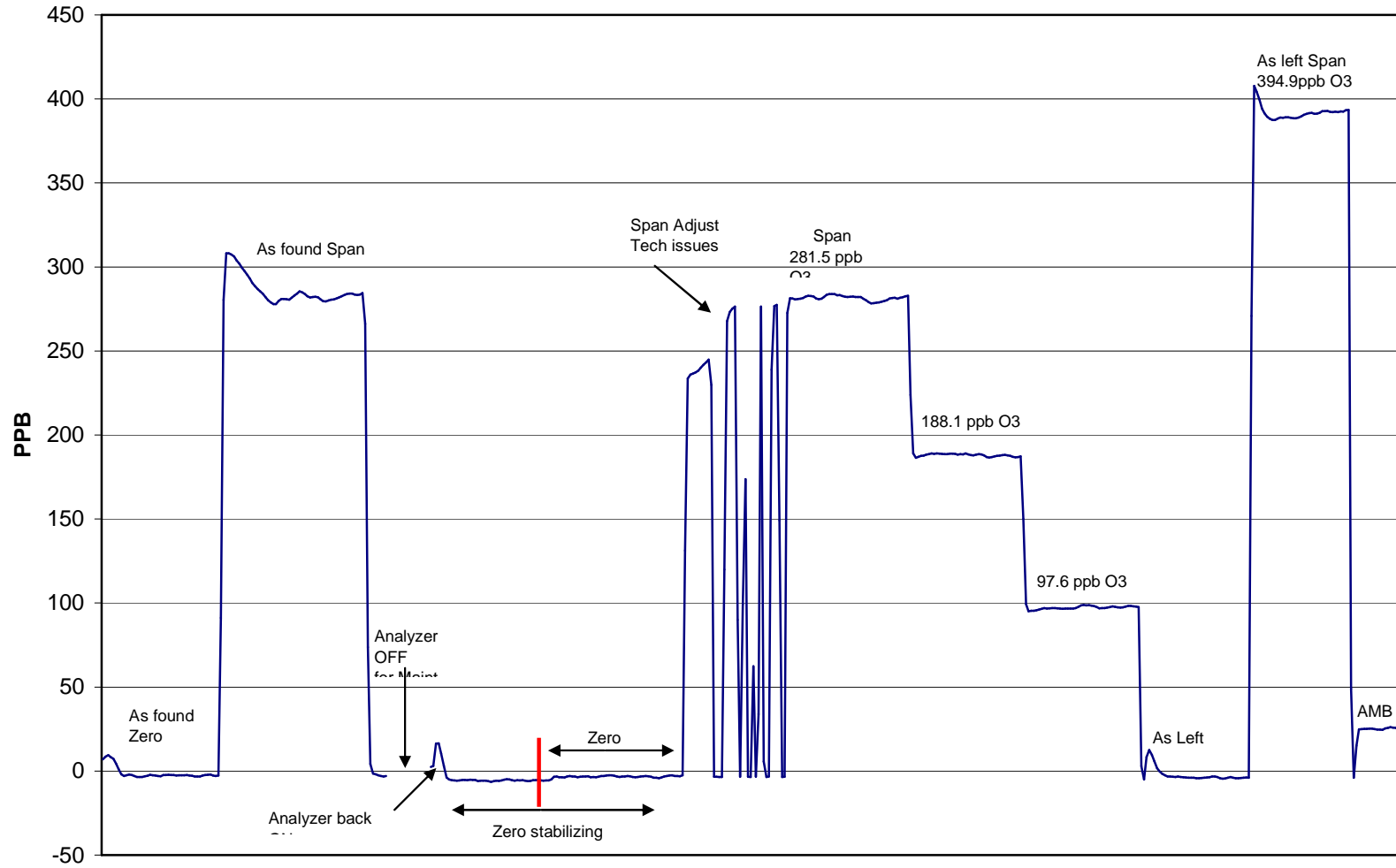
Calculated value of As Found Response: 283.6 ppm Percent Change of As Found: 2.9%

	before calibration		after calibration	
Auto zero	-1.1	ppb	-0.4	ppb
Auto span	370.7	ppb	382.6	ppb

Notes: Rebuilt internal sample pump, cleaned absorption tube and peaked the lamp...
There is a discrepancy of 5ppb between the O3 front display and the AP1000 Config software...
This is an AP1000 AIN channel Voltage issue... it is reading ~4ppb less that it should...

Calibration Performed By: Lenin Flores, Travis Mehrer

O3 Calibration



January 17, 2007

Calibration Report

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



Station Information

Calibration Date January 16, 2007 Previous Calibration December 11, 2006
 Station Number 101 Station Location Crescent Heights

Reason: Routine Installation Removal Other: _____

Start Time (MST) 14:52 End Time (MST) 19:41
 Barometric Pressure 27.5 inches Hg Station Temperature 18.3 Deg C
 Calibrator EnviroNics 6100 Serial Number 3474
 NO Cal Gas Conc 49.9 ppm Cal Gas Expiry Date 15-Dec-07
 NOx Cal Gas Conc 49.9 ppm Cal Gas Serial # LL-50114

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45270

Parameter		NO2	NOx	NO
Before	Data Slope	0.999649	0.999023	0.996439
	Data Offset	2.652215	2.003859	2.832079
After	Data Slope	0.998753	0.998831	0.995814
	Data Offset	3.315723	1.544706	2.108970
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
NO background	-0.2	mV	-0.2	mV
NOx background	1.1	mV	1.1	mV
NO coefficient	1.426		1.515	
NOx coefficient	1.455		1.532	
Chamber Temp	50.0	Deg C	50.1	Deg C
Cooler Temp	7.0	Deg C	6.9	Deg C
Azero	41.8		39.6	
Perm Temp	40.0	Deg C	40.3	Deg C
Pressure	5.2	inches Hg	5.3	inches Hg
Sample Flow	450.0	ccm	451.0	ccm

Notes: Performed a Span Adjustment...Maintenance is scheduled for next month's calibration...

Calibration Report

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



Station Information

Calibration Date: December 11, 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	4990	0.00	0.0	0.0	0.0	-2.6	-3.1	-2.7	N/A	N/A
1	4990	39.85	395.3	395.3	0.0	393.1	393.6	-3.2	1.0057	1.0045
2	4990	19.90	198.2	198.2	0.0	197.7	196.8	-2.2	1.0028	1.0072
3	4990	9.95	99.3	99.3	0.0	97.4	96.7	-2.7	1.0196	1.0271
AFZ	4990	0.00	0.0	0.0	0.0	-2.6	-3.1	-2.7	0.0000	0.0000
AFS	4990	39.86	395.5	395.5	0.0	377.9	381.0	-5.8	1.0464	1.0379
Average Correction Factor									1.0094	1.0129

As Found Concentrations NO_x= 381.3 NO= 387.0 As Found Percent Change NO_x= -3.6% NO= -2.1%

GPT Calibration Data

Dilution Flow 4990 ccm Source Gas Flow 39.86 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	394.6	392.7	1.9	392.9	391.2	-2.7	N/A	N/A	N/A	N/A
300	397.5	296.1	101.4	395.9	294.3	98.8	1.0041	1.0061	1.0260	97.5%
200	398.7	205.5	193.2	397.1	203.4	190.7	1.0041	1.0104	1.0135	98.7%
100	397.4	112.1	285.2	395.7	109.7	282.7	1.0041	1.0223	1.0091	99.1%
Average Correction Factor							1.0041	1.0129	1.0162	98.4%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	-2.6	-3.7	-0.5	ppb	0.5	0.3	0.3	ppb
Auto span	397.9	392.1	5.1	ppb	448.6	442.3	7.1	ppb

Calibration Performed By: Travis Mehrer, Lenin Flores

Calibration Summary

Parameter NO₂
 Air Monitoring Network Palliser Airshed

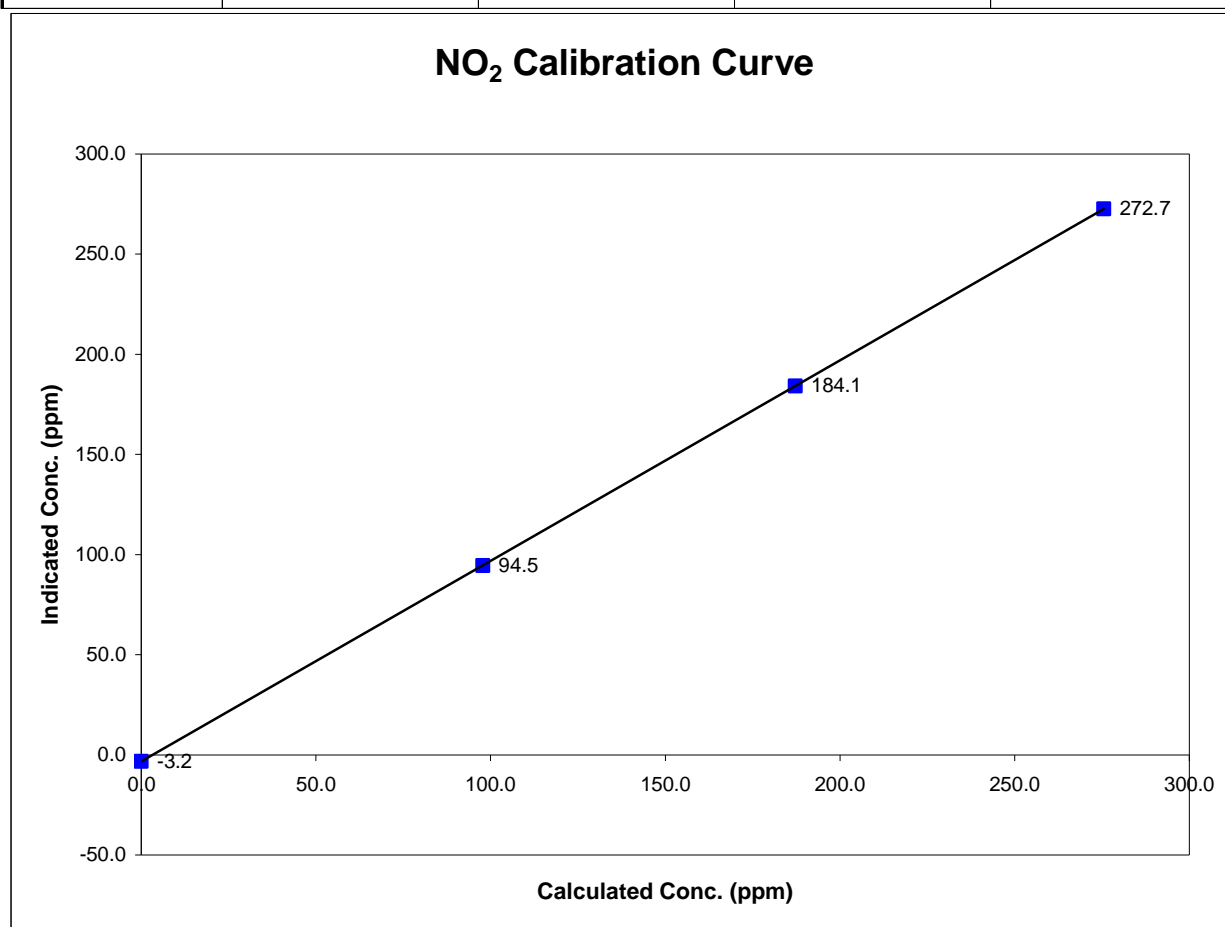


Station Information

Calibration Date	January 16, 2007	Previous Calibration	December 11, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	14:52	End Time (MST)	19:41
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	-3.2	0.0000	Correlation Coefficient	0.999999
97.8	94.5	1.0346		
187.3	184.1	1.0173		
275.6	272.7	1.0106		
			Slope	0.998753
			Intercept	3.315723



Calibration Summary

Parameter NO_x
 Air Monitoring Network Palliser Airshed

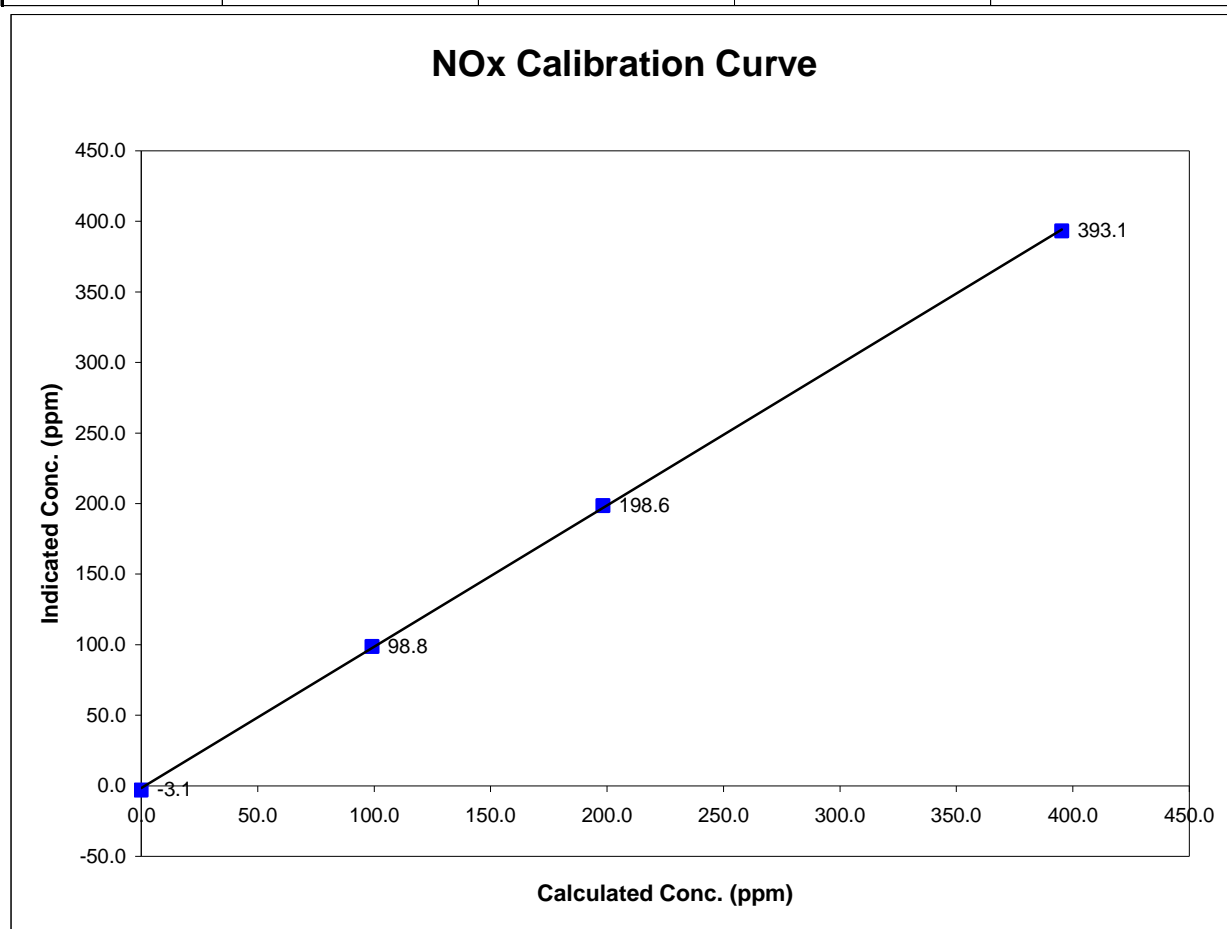


Station Information

Calibration Date	January 16, 2007	Previous Calibration	December 11, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	14:52	End Time (MST)	19:41
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	-3.1	0.0000	Correlation Coefficient	0.999917
395.3	393.1	1.0055		
198.3	198.6	0.9987	Slope	0.998831
99.1	98.8	1.0040		
			Intercept	1.544706



Calibration Summary

Parameter NO
 Air Monitoring Network Palliser Airshed

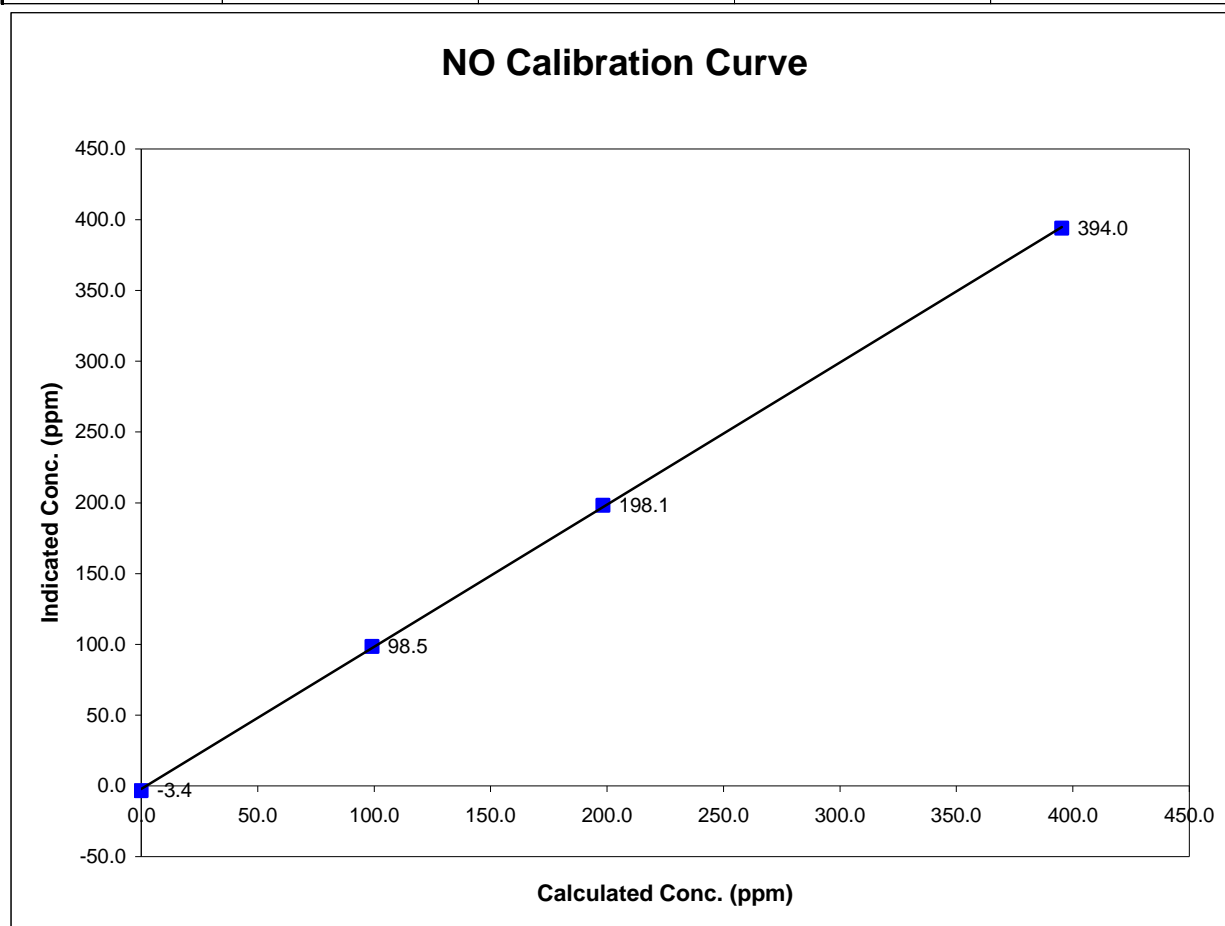


Station Information

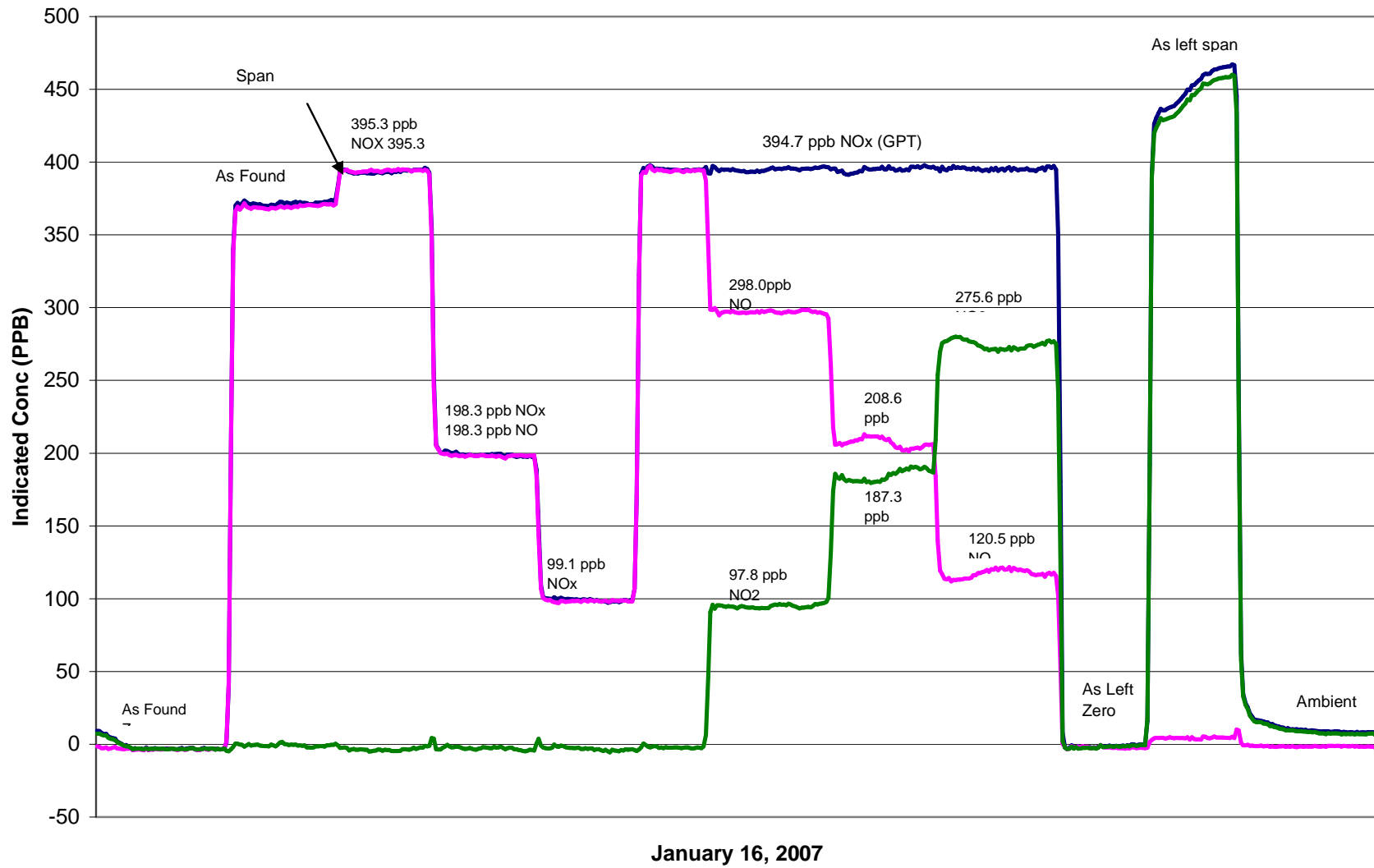
Calibration Date	January 16, 2007	Previous Calibration	December 11, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	14:52	End Time (MST)	19:41
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-3.4	N/A	Correlation Coefficient	0.999948
395.3	394.0	1.0032		
198.3	198.1	1.0013		
99.1	98.5	1.0066		
			Slope	0.995814
			Intercept	2.108970



NOx Calibration



Calibration Report

Parameter THC
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	January 16, 2007	Previous Calibration	December 11, 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)	11:29	End Time (MST)	13:50
Barometric Pressure	27.5 inches Hg	Station Temperature	18.3 Deg C
Calibrator	Envionics 6100	Serial Number	3747
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
	Before		After
Calculated slope	0.995671	Calculated slope	1.003945
Calculated intercept	0.094402	Calculated intercept	0.015558
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	5.78	PSI
THC span counts	12605	raw	12605	raw
THC zero counts	1370	raw	1370	raw
V Bias	NA	Volts	-326	Volts

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.00	0.00	0.00	N/A
4992	79.80	24.04	23.96	1.0031
4992	39.86	12.10	11.96	1.0121
4992	9.95	3.04	3.04	0.9988
zero	0.00	0.00	0.07	As Found Zero
4992	79.80	24.04	23.96	As Found Span
Average Correction Factor				1.0047

Calculated value of As Found Response: 23.887 ppm Percent Change of As Found: 0.6%

	before calibration		after calibration	
Auto zero	0.05	ppm	0.01	ppm
Auto span	21.19	ppm	20.92	ppm

Notes: _____

Calibration Performed By: Lenin Flores, Travis Mehrer

Calibration Summary

Parameter THC
 Air Monitoring Network Palliser Airshed

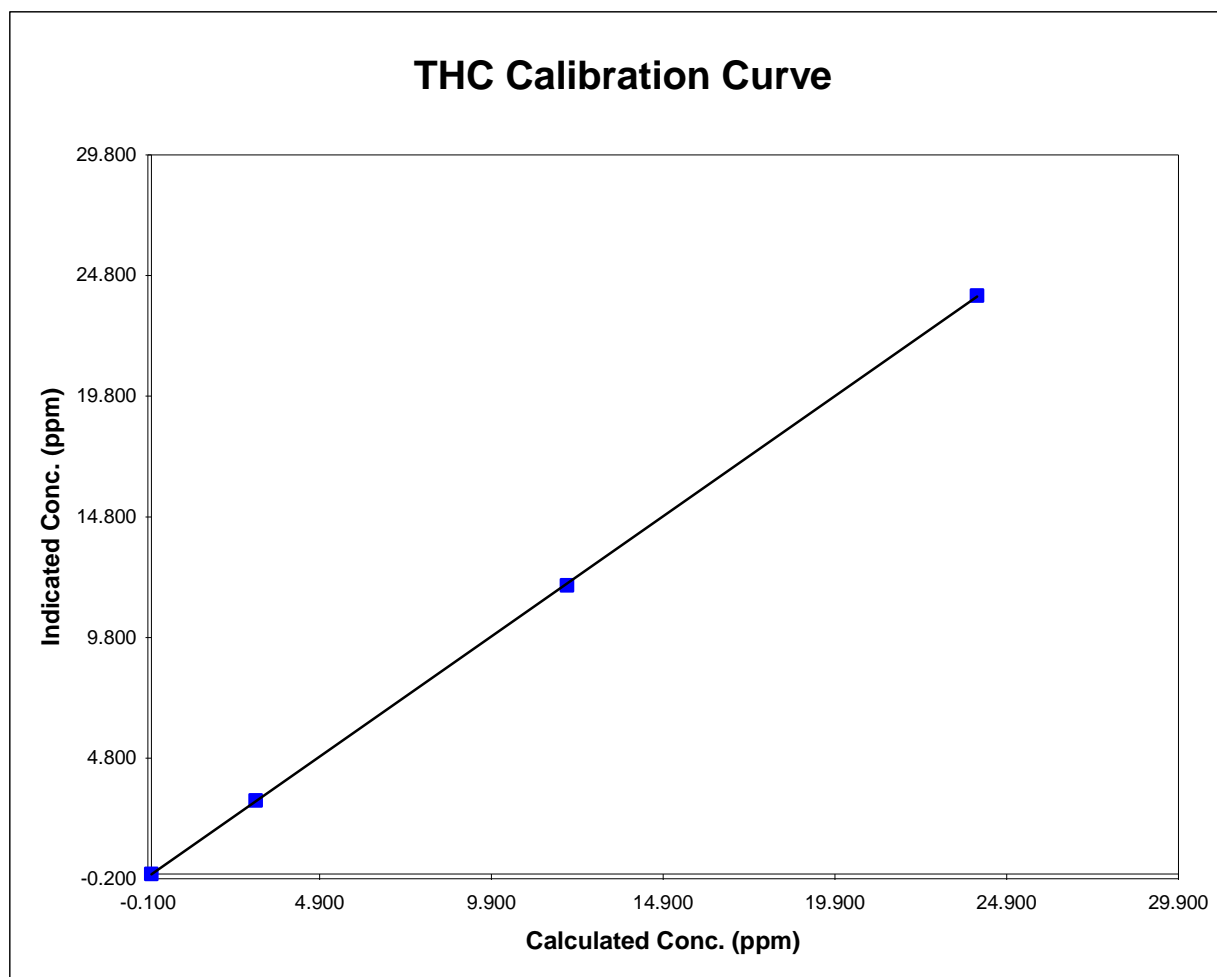


Station Information

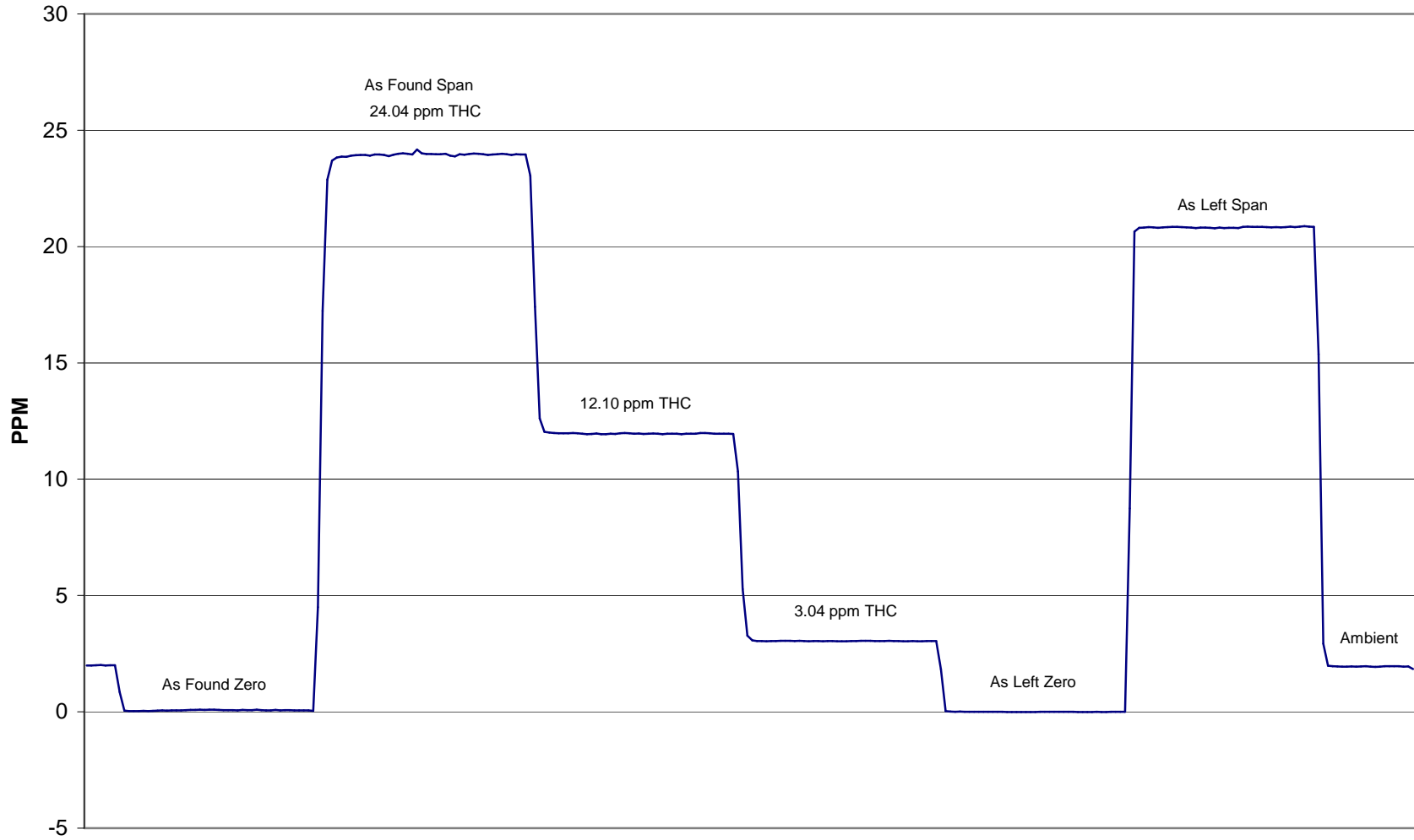
Calibration Date	January 16, 2007	Previous Calibration	December 11, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	11:29	End Time (MST)	13:50
Analyzer make/model	TEI model 51C-LT	Analyzer serial #	407505596

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.002	N/A		
24.037	23.964	1.0031	Correlation Coefficient	0.999974
12.102	11.958	1.0121		
3.040	3.043	0.9988	Slope	1.003945
			Intercept	0.015558



THC Calibration



January 16, 2007

Calibration Report



Parameter CO
 Air Monitoring Network Palliser

Station Information

Calibration Date	January 17, 2007	Previous Calibration	December 12, 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)	9:20	End Time (MST)	12:57
Barometric Pressure	27.56 in Hg	Station Temperature	18.3 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	2998 ppm	Cal Gas Expiry Date	3/14/2008
		Cal Gas Cylinder #	BLM002248
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 1 volt	DACS channel #	11
	<u>Before</u>		<u>After</u>
Calculated slope	0.972921	Calculated slope	0.996402
Calculated intercept	-0.930199	Calculated intercept	-0.048226
Analyzer make	TEI Model 48C	Analyzer serial #	436609887

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO coefficient	1.064		1.074	
CO bkg setting	10.774		0.001	
Lamp ratio	1.1454		1.144651	
Lamp intensity	199572	Hz	199763	Hz
Sample Flow	0.995	LPM	1.006	LPM

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.00	0.00	0.00	N/A
4992	49.87	29.65	29.79	0.9953
4992	19.91	11.91	12.01	0.9920
4992	9.95	5.97	6.09	0.9788
4992	0.00	0.00	1.40	0.0000
4992	49.87	29.65	32.63	0.9088
Average Correction Factor				0.9887

Calculated value of As Found Response: 29.448 ppm Percent Change of As Found: 0.7%

	before calibration		after calibration	
Auto zero	-0.15	ppm	-0.05	ppm
Auto span	16.14	ppm	20.56	ppm

Notes: Cleaned Mirrors, Rebuilt internal pump, and changed the Initial S/R Ratio from 1.167820 to the obtained after introducing 1/2hr of zero air...
Adjusted Zero and Span...

Calibration Performed By: Lenin Flores, Travis Mehrer

Calibration Summary

Parameter CO
 Air Monitoring Network Palliser

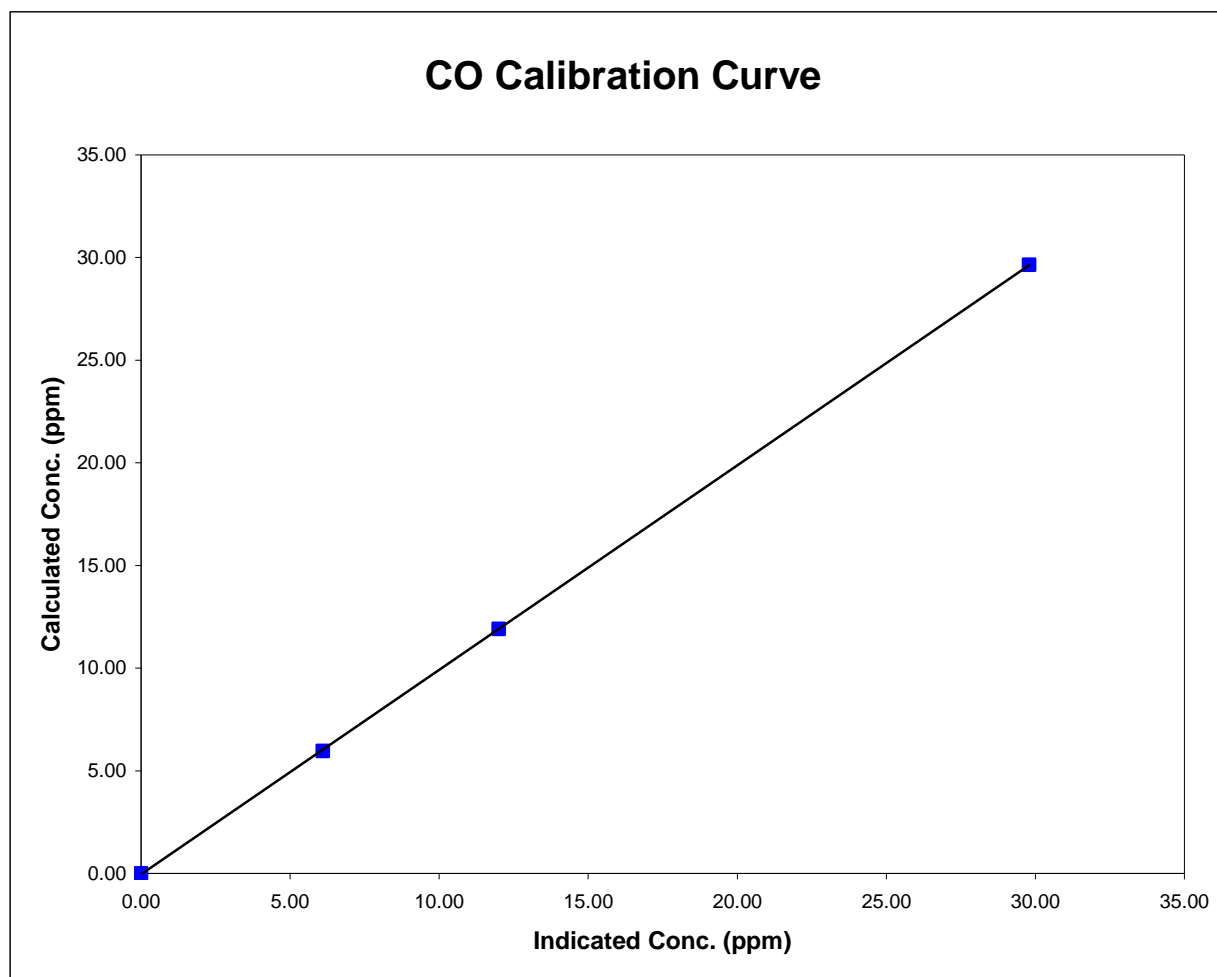


Station Information

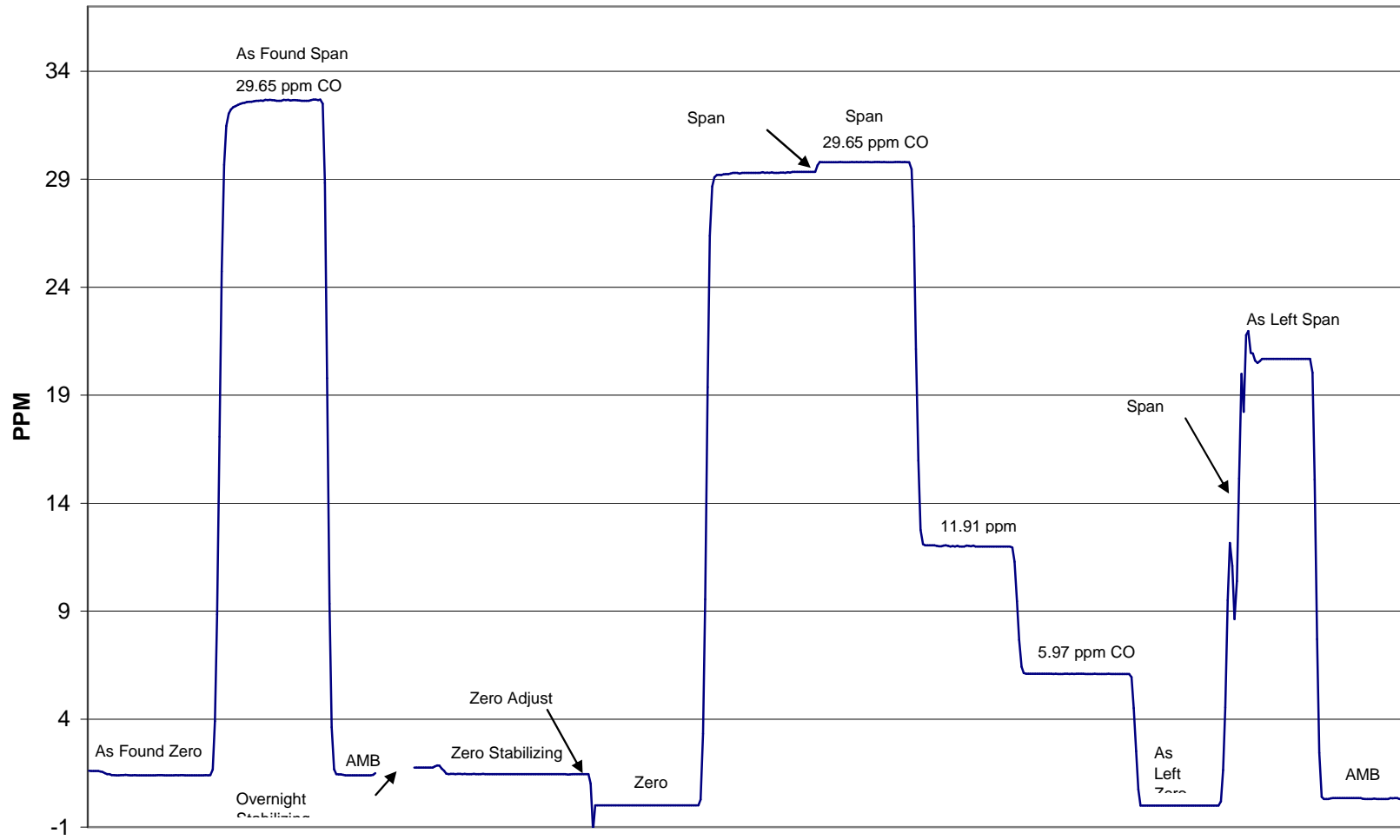
Calibration Date	January 17, 2007	Previous Calibration	December 12, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	9:20	End Time (MST)	12:57
Analyzer make/model	TEI Model 48C	Analyzer serial #	436609887

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.00	0.00	N/A		
29.65	29.79	0.9953	Correlation Coefficient	0.999988
11.91	12.01	0.9920		
5.97	6.09	0.9788	Slope	0.996402
			Intercept	-0.048226



CO Calibration



January 17, 2007

Calibration Report

Parameter PM2.5
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	January 17, 2007	Previous Calibration	December 12, 2006
Station Number	1	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	12:03	End Time (MST)	14:20
Barometric Pressure	0.921 ATM	Station Temperature	24.4 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15
	<u>Before</u>		<u>After</u>
DACS Scale High	450	DACS slope	450
DACS Scale Low	-50	DACS intercept	-50

Analyzer Information

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

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	43%	%	20%	%
Ko Factor	NA		NA	
Temperature	0.8	Deg C	0.8	Deg C
Pressure	0.921	ATM	0.921	ATM

Calibration Data

Parameter	Set Point	TEOM Reading (as found)	Tolerance	TEOM Reading (after adjustments)
zero flow - main	0.0	0.01	0.00	0.01
zero flow - auxillary	0.0	0.01	0.01	0.01
flow recovery - main	45 - 60 Seconds	50.0	45 - 60 Seconds	50.0
flow recovery - aux	46 - 60 Seconds	53.0	46 - 60 Seconds	53.0
Temperature	measured	0.8	+/- 1.0 Deg C	0.8
Pressure	measured	0.921	+/- 1.5% ΔATM	0.921
Total Flow	16.67 SLPM	16.58		16.58
Auxiliary flow	13.67 SLPM	14.00	+/- 1.0 SLPM	14.00
Main flow	3.0 SLPM	3.022	+/- 0.2 SLPM	3.022
Leak Check - main	0.0	0.00	<0.15 SLPM	0.00
Leak Check - aux	0.0	-0.02	<0.15 SLPM	-0.02
Ko Factor (w/o filter)	measured	NA	filter weight (g)	NA
Ko Factor (w/ filter)	measured	NA	% Ko difference	NA

Notes: No adjustments were performed...

Calibration Performed By: Lenin Flores, Travis Mehrer