



Palliser Airshed Society

Ambient Air Monitoring Network Summary

April 2007

Prepared By:



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May 29, 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 – April 2007

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

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 April.

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

- Monthly average concentrations of NO₂ was 5.0 ppb
- Monthly average concentrations for O₃ was 32.1 ppb
- Monthly average concentrations for CO was 0.19 ppm
- Monthly average concentrations for THC was 2.01 ppm
- Monthly average concentrations for PM_{2.5} was 3.4 µg/m³

The Air Quality Index (AQI) recorded 651 hours of Good readings and 31 hours of Fair readings for the month of April.

Passive Monitoring – Six Sites throughout the PAS zone:

The O₃ passive sample from the Southridge site was damaged and no results are available for the sample. The passive sample analyses were performed by MAXXAM Analytics Inc. The following are the ranges for April 2007 recorded by the six passive stations located throughout the PAS zone.

- ◆ Average concentrations for SO₂ passives ranged from 0.2 to 0.3 ppb with a mean of 0.3 ppb.
- ◆ Average concentrations for NO₂ passives ranged from 2.9 to 5.1 ppb with a mean of 4.2 ppb.
- ◆ Average concentrations for O₃ passives ranged from 30.3 to 38.9 ppb with a mean of 35.2 ppb.

Focus added the NO₂ and SO₂ Provincial Annual Objectives to the passive figures to provide a quick comparison for the reader of the ambient data and the objective.

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

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Continuous Monitoring

Ambient Air Monitoring Network

Crescent Heights Station

General Station Issues

Calibrations were performed on April 25th (NO_x) and April 26th (THC, CO, O₃ and TEOM). On April 14th at 22:00 there was a power bump which resulted in one (1) hour of invalid data for all parameters.

Parameter	Make	Model	Units	Notes
Ozone	Teledyne - API	400E	ppb	No operational issues observed.
Nitrogen Dioxide	Teledyne - API	200E	ppb	No operational issues observed.
Total Hydrocarbons	Bendix	400A	ppm	No operational issues observed.
Carbon Monoxide	TEI	49C	ppm	No operational issues observed.
PM 2.5	R&P TEOM	1400ab	µg/m ³	No operational issues observed.
Wind Speed	Met One	010C	kph	No operational issues observed.
Wind Direction	Met One	020C	Deg	No operational issues observed.
Ambient Temperature	Met One	083D	DegC	No operational issues observed.
Relative Humidity	Met One	083D	%	No operational issues observed.
Solar Radiation	Met One	096-1	W/m ²	No operational issues observed.
Data Acquisition System	Titan Logix	AP1000		No operational issues observed.



April 2007 Monthly Overall Summary Report

Ambient Air Quality Data

Pollutant (units)		Palliser Airshed Society					Maximum Recorded Values						Operational Time (%)
							1-hr		24-hr		Exceedence		
		1-hr	24-hr	Monthly Average	1-hr	24-hr					Conc	Day	
NO (ppb)				Crescent Heights	1.7	-	-	37.6	Apr-04 07:00	4.3	E	3.7	Apr-04 99.9%
NO ₂ (ppb)	212	106		Crescent Heights	5.0	0	0	26.9	Apr-21 22:00	4.2	ESE	8.3	Apr-12 99.9%
NO _x (ppb)				Crescent Heights	6.4	-	-	57.3	Apr-04 07:00	4.3	E	10.3	Apr-09 99.9%
O ₃ (ppb)	82			Crescent Heights	32.1	0	-	60.0	Apr-28 10:00	26.4	W	47.7	Apr-29 99.9%
O ₃ (ppb) - 8-hr	65			Crescent Heights	0							57.4	Apr-28
CO (ppm)	13			Crescent Heights	0.19	0	-	0.7	Apr-04 07:00	4.3	E	0.2	Apr-04 99.9%
CO (ppm) - 8-hr	5			Crescent Heights	0							0.3	Apr-04
THC (ppm)				Crescent Heights	2.01	-	-	2.7	Apr-22 03:00	3.2	N	2.1	Apr-04 99.9%
PM _{2.5} (µg/m ³)	30 ^a			Crescent Heights	3.4		0	12.8	Apr-04 07:00	4.3	E	6.6	Apr-03 99.9%
RH (%)				Crescent Heights	62.1	-	-	-	-	-	-	-	99.9%
SR (W/m ²)				Crescent Heights	185.0	-	-	-	-	-	-	-	99.9%
Temp (°C)				Crescent Heights	5.9	-	-	-	-	-	-	-	99.9%
WSPD v (km/hr)				Crescent Heights	11.4	-	-	29.7	Apr-16 17:00	29.7	S	17.9	Apr-16 99.9%
WSPD s (km/hr)				Crescent Heights	11.8	-	-	29.9	Apr-16 17:00	29.9	S	18.6	Apr-28 99.9%
WDIR (Deg)				Crescent Heights	WSW	-	-	-	-	-	-	-	99.9%

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: April 1, 2007 to May 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:	651
Number of 1-hr Fair Readings:	31
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 1:00	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-Apr-07	N	18	19	19	16	15	12	13	15	16	16	17	18	18	18	18	17	17	15	13	13	12	13	N	15	
2-Apr-07	14	14	13	14	13	12	13	12	12	11	10	11	11	12	13	13	15	16	16	16	16	17	N	15		
3-Apr-07	15	14	15	15	14	12	12	12	12	11	11	12	13	14	14	14	14	13	8	10	10	N	14	13		
4-Apr-07	12	13	13	13	11	7	8	11	10	12	12	13	15	18	18	18	18	17	16	15	N	15	15	12		
5-Apr-07	12	11	11	11	10	10	9	9	10	10	12	13	14	14	14	15	16	18	18	18	N	17	16	15	15	
6-Apr-07	15	13	13	12	7	5	10	12	17	19	20	21	21	21	21	21	20	21	N	19	16	12	13	14		
7-Apr-07	14	13	16	16	14	13	13	16	18	19	20	22	22	21	22	22	21	N	19	16	17	19	20	20		
8-Apr-07	18	13	17	17	18	14	11	10	12	18	20	22	24	25	25	24	N	24	21	20	12	10	13	9		
9-Apr-07	8	7	10	5	9	8	9	11	11	16	16	18	18	18	18	N	14	13	15	15	15	13	13	14		
10-Apr-07	11	10	9	9	7	7	7	8	11	14	16	17	18	19	N	19	18	19	18	18	18	17	15	14		
11-Apr-07	14	16	17	17	15	13	14	16	20	20	18	18	18	N	22	23	22	22	20	18	16	13	13	12		
12-Apr-07	11	8	10	12	11	8	8	11	16	19	20	21	N	22	21	22	22	24	23	18	13	9	6	7		
13-Apr-07	13	13	15	15	15	13	12	13	14	17	19	N	24	25	25	26	26	24	22	19	15	12	11	11		
14-Apr-07	11	11	10	11	13	12	10	13	16	18	N	20	21	21	22	22	21	21	19	15	11	9	N	13		
15-Apr-07	16	15	14	17	14	15	14	19	18	N	14	17	21	24	24	25	25	25	24	20	19	17	14	8		
16-Apr-07	9	10	8	7	7	4	4	7	N	22	24	23	23	23	23	24	24	24	23	23	22	20	18	19		
17-Apr-07	18	16	16	16	16	14	11	N	17	15	15	11	20	23	23	23	23	21	18	20	17	16	10			
18-Apr-07	11	9	10	13	10	5	N	5	4	5	11	14	15	14	16	16	16	14	12	13	13	13	13			
19-Apr-07	12	15	15	13	15	N	13	15	15	15	14	10	10	11	12	12	11	10	9	8	6	8	6	6		
20-Apr-07	7	7	8	9	N	8	7	7	8	9	8	9	9	11	11	13	13	16	17	14	16	15	15	14		
21-Apr-07	14	14	12	N	12	12	11	11	11	12	12	14	15	16	15	18	19	19	17	14	11	7	6	4		
22-Apr-07	4	4	N	4	4	5	4	9	16	16	18	18	20	23	24	25	25	25	24	21	20	16	14	12		
23-Apr-07	11	N	12	13	13	10	9	9	10	13	15	17	21	23	23	22	22	22	21	19	18	18	15			
24-Apr-07	N	9	4	5	4	3	4	7	11	18	22	23	22	23	23	24	24	23	21	19	17	17	16	N		
25-Apr-07	15	14	12	12	11	10	9	11	12	12	18	20	21	22	24	24	24	23	21	17	21	18	16	15		
26-Apr-07	15	15	N	14	12	9	8	2	4	4	2	22	26	29	N	N	N	N	21	19	20	18	17			
27-Apr-07	18	17	N	18	18	18	16	17	21	22	24	26	28	30	32	32	29	26	26	23	20	19	20	18		
28-Apr-07	17	N	16	16	18	20	20	22	25	32	33	30	32	31	31	29	29	29	25	22	21	21	20			
29-Apr-07	N	18	17	20	21	20	20	23	27	28	28	26	26	25	26	24	25	27	33	30	24	23	22	N		
30-Apr-07	20	20	19	18	17	17	18	15	20	21	20	20	20	21	21	23	23	23	23	22	16	N	17			



PAS - Crescent Heights - Nitrogen Dioxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2007 to May 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:	26.9 ppb	21-Apr 22:00 23:00
Maximum 24-hr Average:	8.3 ppb	12-Apr

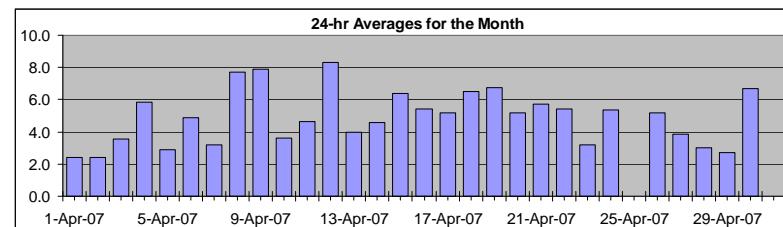
AIC Time:	33 hrs	Operational Time:	680 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	18.2	12.6	6.6	3.8	2.3	1.0	0.4	5.0 ppb	3.8 ppb

Day Mountain Standard Time

	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	Daily Maximum	
Hour Start	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	24:00			
1-Apr-07	A	5	3	3	3	4	7	4	2	2	2	1	1	1	1	1	2	3	3	3	2	1	1	1	A	2.4	
2-Apr-07	3	2	2	2	3	5	4	6	3	3	4	1	2	3	2	2	1	1	1	1	1	1	1	1	A	2.4	
3-Apr-07	1	1	1	1	1	3	3	2	1	1	1	1	1	1	1	1	1	2	5	15	12	11	A	3.5	14.9		
4-Apr-07	8	8	6	6	11	16	18	20	9	5	4	2	0	1	1	1	1	2	2	2	A	4	3	2	5.9	19.9	
5-Apr-07	3	3	3	2	3	3	5	6	3	2	1	2	2	3	3	2	2	1	2	A	5	4	4	3	2.9	5.8	
6-Apr-07	3	4	4	4	11	15	9	9	3	0	0	1	1	1	0	1	3	A	5	6	13	11	6	4.9	15.3		
7-Apr-07	3	4	0	0	2	5	6	3	2	3	2	1	1	1	1	1	2	2	A	7	11	7	4	3	2	3.2	10.6
8-Apr-07	6	16	8	5	4	9	9	9	12	7	4	3	2	3	1	2	A	5	9	6	17	16	10	15	7.7	16.7	
9-Apr-07	11	15	10	18	10	11	9	7	9	6	7	7	6	4	4	A	9	9	7	4	5	5	3	5	7.9	17.7	
10-Apr-07	4	3	3	3	7	8	7	4	3	3	2	2	2	1	A	4	3	2	3	2	2	4	5	5	3.6	7.9	
11-Apr-07	5	2	2	2	4	7	6	3	2	2	4	5	5	A	4	3	3	2	3	6	9	11	8	7	4.7	10.8	
12-Apr-07	8	13	9	5	7	11	12	9	3	3	2	1	A	5	5	4	5	5	5	9	12	17	21	18	8.3	21.4	
13-Apr-07	6	5	2	4	3	4	4	2	2	3	3	A	5	3	3	2	3	3	3	5	7	7	7	4	4.0	7.1	
14-Apr-07	3	3	4	3	2	5	7	4	2	2	A	4	4	3	2	3	4	4	4	5	7	11	13	P	4.5	13.4	
15-Apr-07	3	6	6	3	7	4	8	4	5	A	10	7	5	2	2	2	2	2	3	9	10	9	15	23	6.4	22.8	
16-Apr-07	13	7	7	8	9	16	17	12	A	4	3	3	3	2	3	2	2	1	3	2	2	2	3	2	5.4	16.6	
17-Apr-07	2	3	3	2	3	8	12	A	7	6	9	16	5	2	3	2	2	2	3	4	5	3	4	3	5.2	15.8	
18-Apr-07	10	13	10	3	7	13	A	18	13	12	6	3	3	4	3	3	3	3	6	4	3	3	3	3	6.5	18.2	
19-Apr-07	4	2	2	6	3	A	9	5	4	4	5	11	10	8	6	5	6	7	8	9	11	8	11	11	6.7	11.4	
20-Apr-07	7	8	5	3	A	8	8	7	5	4	5	5	4	4	5	5	8	4	3	7	3	3	3	5	5.2	8.5	
21-Apr-07	3	3	7	A	7	4	5	5	4	3	2	2	2	2	4	2	1	1	3	3	9	16	27	17	5.7	26.9	
22-Apr-07	18	17	A	19	16	14	11	7	1	1	1	2	1	0	0	0	0	1	4	1	3	4	3	5.4	18.6		
23-Apr-07	4	A	7	3	2	7	7	8	5	3	4	3	1	2	3	1	1	1	1	1	1	2	3	3.2	7.8		
24-Apr-07	A	10	11	8	10	11	12	8	4	2	3	2	2	2	3	3	2	3	5	5	4	4	3	A	5.3	11.6	
25-Apr-07	5	4	6	5	6	8	11	8	6	7	4	2	4	C	C	C	C	C	C	A	7	10	10	8	N	11.4	
26-Apr-07	5	3	A	6	7	7	10	10	5	6	6	4	4	3	4	3	5	3	7	5	6	2	5	3	5.2	10.2	
27-Apr-07	2	2	A	7	5	5	7	6	3	3	2	2	1	2	4	2	4	4	2	6	6	5	4	4	3.9	6.9	
28-Apr-07	5	A	6	5	3	4	3	3	2	2	1	1	2	3	3	2	2	2	1	1	2	4	6	4	3.0	5.8	
29-Apr-07	A	8	7	4	2	2	2	1	1	2	3	3	2	2	2	2	2	3	4	2	2	A	2.7	7.8			
30-Apr-07	5	3	3	5	5	9	7	10	5	3	5	7	9	8	8	9	9	9	8	7	4	9	A	6.7	10.4		
	Hourly Avg	5.7	6.3	5.1	5.0	5.6	7.7	8.1	6.8	4.3	3.6	3.6	3.6	3.0	2.7	2.9	2.5	3.3	3.1	4.3	5.3	5.9	6.5	6.8	7.2		
	Hourly Max	18.3	16.6	11.4	18.6	15.7	16.4	18.3	19.9	12.6	12.1	9.8	15.8	10.2	8.2	8.4	9.1	9.1	9.3	14.9	11.6	16.7	17.3	26.9	22.8		

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)



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

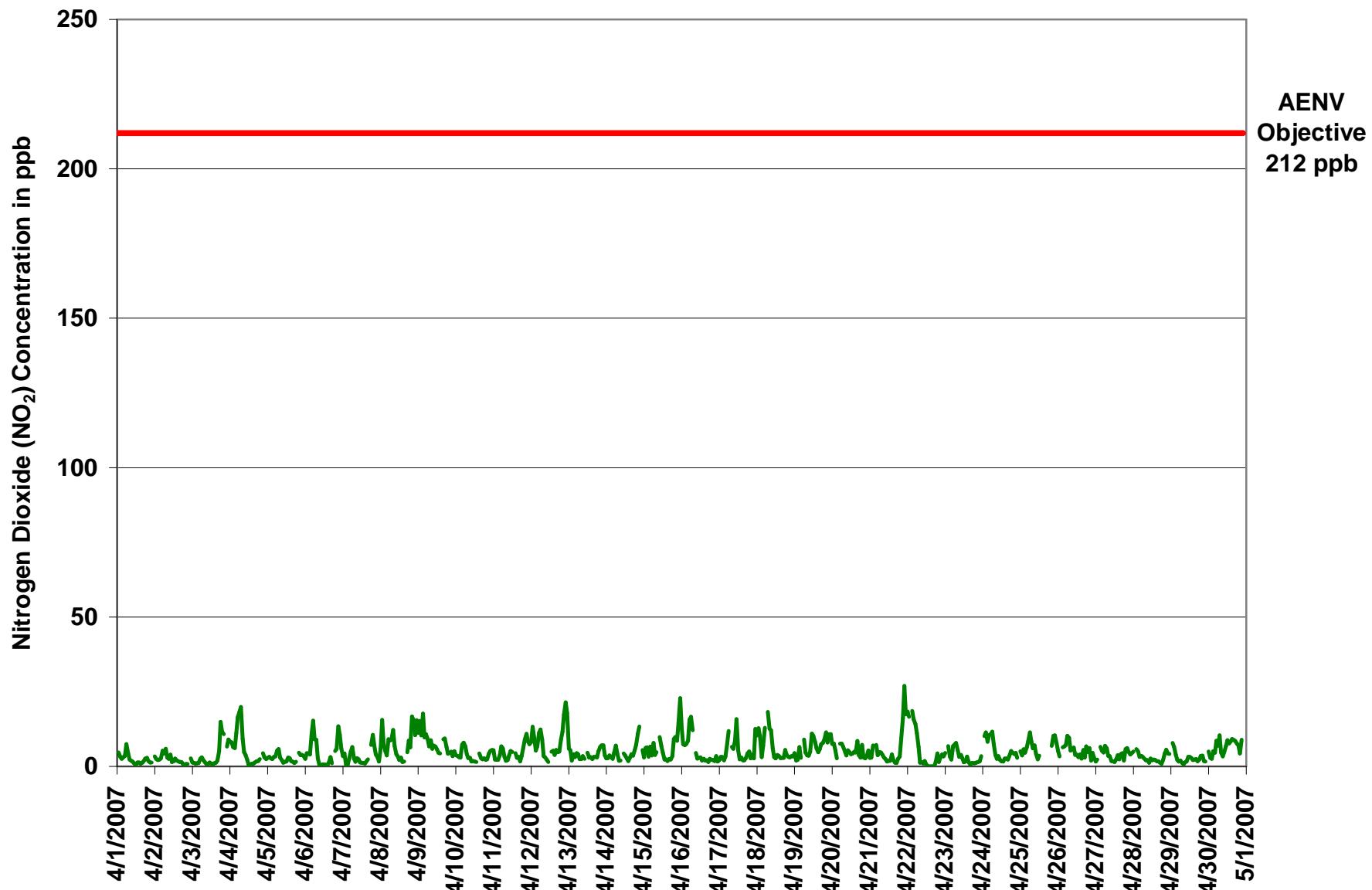


Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: April 1, 2007 to May 1, 2007

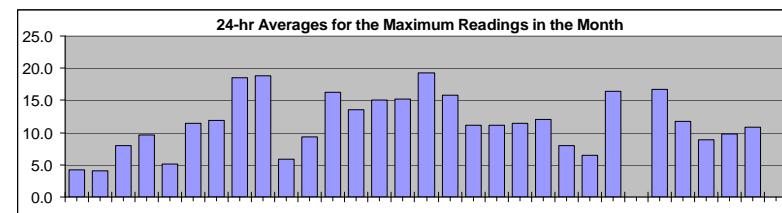
Summary

Maximum 1-hr Value:	52.7	ppb	8-Apr	13:00 14:00
Maximum 24-hr Value:	19.3	ppb	16-Apr	

AIC Time:	33 hrs	Operational Time:	680 hrs
Calibration Time:	6 hrs	AMD Operational Uptime:	99.9%
Percentile	99	95	75
	42.5	32.6	16.0
Percentile	50	25	5
	8.3	4.2	2.1
Percentile	1		
	1.2		

Day Mountain Standard Time

	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	24:00	25:00	26:00	27:00	28:00	29:00	30:00	24-hour Average	Daily Maximum
1-Apr-07	A	8	5	4	5	5	11	9	5	3	3	4	1	2	3	2	2	4	4	5	4	2	3	A	4.3	11.3								
2-Apr-07	7	3	3	3	4	9	8	8	5	4	6	3	3	6	3	3	3	2	2	1	2	2	A	6	4.1	8.9								
3-Apr-07	3	2	2	2	2	4	6	4	2	2	2	15	2	1	7	2	5	12	23	19	24	A	27	14	7.9	27.1								
4-Apr-07	10	25	16	9	15	24	22	25	23	7	6	4	1	2	4	2	2	3	3	3	A	8	4	4	9.6	25.3								
5-Apr-07	4	4	4	5	6	5	8	10	5	3	3	4	3	6	10	3	3	2	3	A	11	6	7	4	5.1	10.5								
6-Apr-07	8	7	10	8	19	23	13	12	7	1	1	2	1	2	1	11	39	3	A	8	8	52	17	8	11.5	52.2								
7-Apr-07	6	10	1	2	4	11	10	7	3	19	3	3	3	16	2	23	48	A	27	31	13	13	13	3	11.8	48.1								
8-Apr-07	51	38	29	9	7	16	18	17	19	10	6	7	4	53	2	4	A	7	18	13	26	29	14	31	18.5	52.7								
9-Apr-07	18	18	20	30	16	19	19	11	12	9	11	12	26	8	6	A	12	36	33	24	28	29	7	30	18.8	36.3								
10-Apr-07	6	5	5	4	16	13	10	7	4	5	3	3	2	3	A	7	4	3	4	3	4	7	8	8	5.8	16.3								
11-Apr-07	9	4	4	5	6	11	10	5	4	5	6	6	6	A	8	10	17	3	26	23	12	14	11	10	9.4	25.5								
12-Apr-07	14	16	15	11	9	26	31	12	5	23	18	3	A	8	7	8	9	10	28	13	17	28	27	33	16.3	32.6								
13-Apr-07	26	23	4	12	7	16	8	4	15	7	30	A	7	4	7	4	35	26	5	29	9	10	18	7	13.6	35.4								
14-Apr-07	5	5	7	11	4	10	33	20	4	21	A	8	9	5	3	44	6	7	13	20	17	42	P	36	15.0	43.6								
15-Apr-07	5	33	22	17	18	8	19	8	14	A	14	13	12	4	4	4	4	4	8	15	38	14	42	29	15.2	42.2								
16-Apr-07	37	9	28	10	27	36	24	15	A	8	20	17	33	29	23	3	3	2	24	3	13	22	31	26	19.3	37.0								
17-Apr-07	21	14	32	4	5	37	32	A	11	13	13	29	9	3	49	20	4	6	8	7	5	11	4	27	15.8	49.4								
18-Apr-07	29	16	18	5	10	19	A	21	17	16	14	4	4	6	6	6	4	6	16	5	5	8	8	12	11.1	29.1								
19-Apr-07	13	3	9	31	9	A	12	9	5	6	12	14	15	11	10	6	7	11	11	14	14	11	13	13	11.2	30.8								
20-Apr-07	9	17	11	3	A	10	16	9	6	5	11	18	5	6	6	8	32	8	4	33	15	6	6	19	11.4	32.5								
21-Apr-07	4	33	28	A	16	5	16	13	10	5	5	3	3	3	10	6	2	2	5	5	16	31	36	22	12.1	36.2								
22-Apr-07	34	18	A	24	17	16	14	10	3	3	2	3	2	1	1	1	0	1	4	11	2	5	6	6	7.9	34.5								
23-Apr-07	6	A	12	5	3	12	14	16	9	5	5	5	3	21	6	3	1	2	2	2	3	4	3	7	6.5	21.1								
24-Apr-07	A	18	18	10	14	15	14	14	6	21	40	22	12	3	16	7	3	6	30	37	20	29	7	A	16.4	40.1								
25-Apr-07	9	5	8	37	14	21	27	12	7	30	7	4	5	C	C	C	C	C	C	A	14	24	16	15	N	37.2								
26-Apr-07	27	6	A	35	9	14	17	16	7	8	9	6	5	5	14	5	39	4	36	47	32	3	31	8	16.7	46.5								
27-Apr-07	2	4	A	13	20	9	12	11	6	7	4	3	3	6	34	3	24	31	4	20	24	8	6	13	11.7	33.7								
28-Apr-07	22	A	9	26	26	26	5	11	4	4	3	6	4	6	4	4	6	3	3	6	7	10	6	8	9.0	26.2								
29-Apr-07	A	14	11	6	3	3	3	3	1	3	4	42	18	28	3	3	35	4	5	15	6	3	3	A	9.8	42.2								
30-Apr-07	9	4	4	10	8	19	12	13	7	7	7	30	11	9	11	12	12	11	10	10	7	15	A	12	10.8	29.7								



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

Hourly Avg	14.6	13.0	12.4	12.2	11.0	15.2	15.3	11.5	7.7	8.9	9.3	10.0	7.4	9.2	9.4	7.5	12.9	7.9	12.7	15.1	13.7	15.3	13.8	15.2
Hourly Max	50.8	38.0	32.4	37.2	26.7	37.4	33.0	25.2	22.7	30.0	40.1	42.2	33.2	52.7	49.4	43.6	48.1	36.3	36.1	46.5	38.5	52.2	42.2	35.9

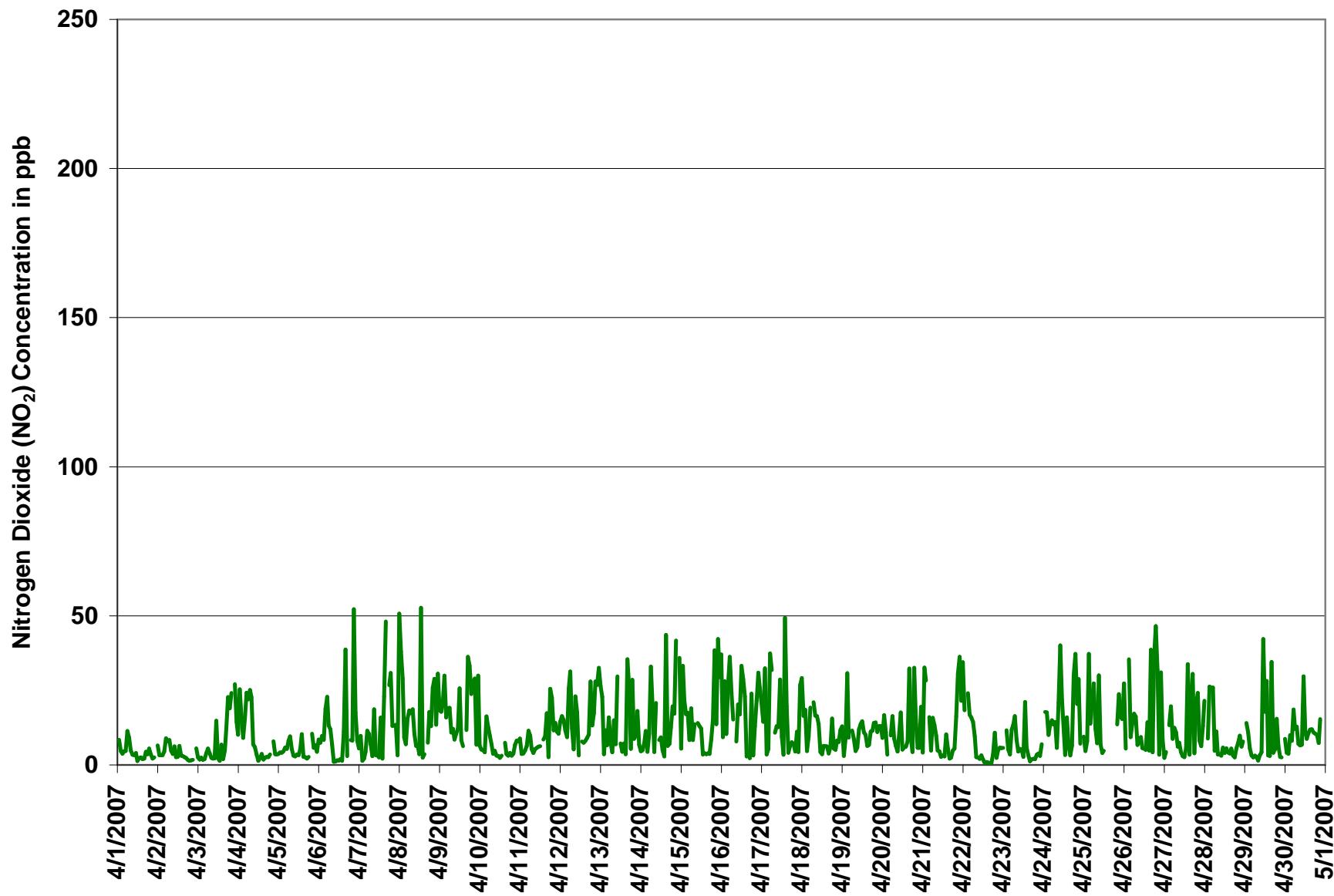
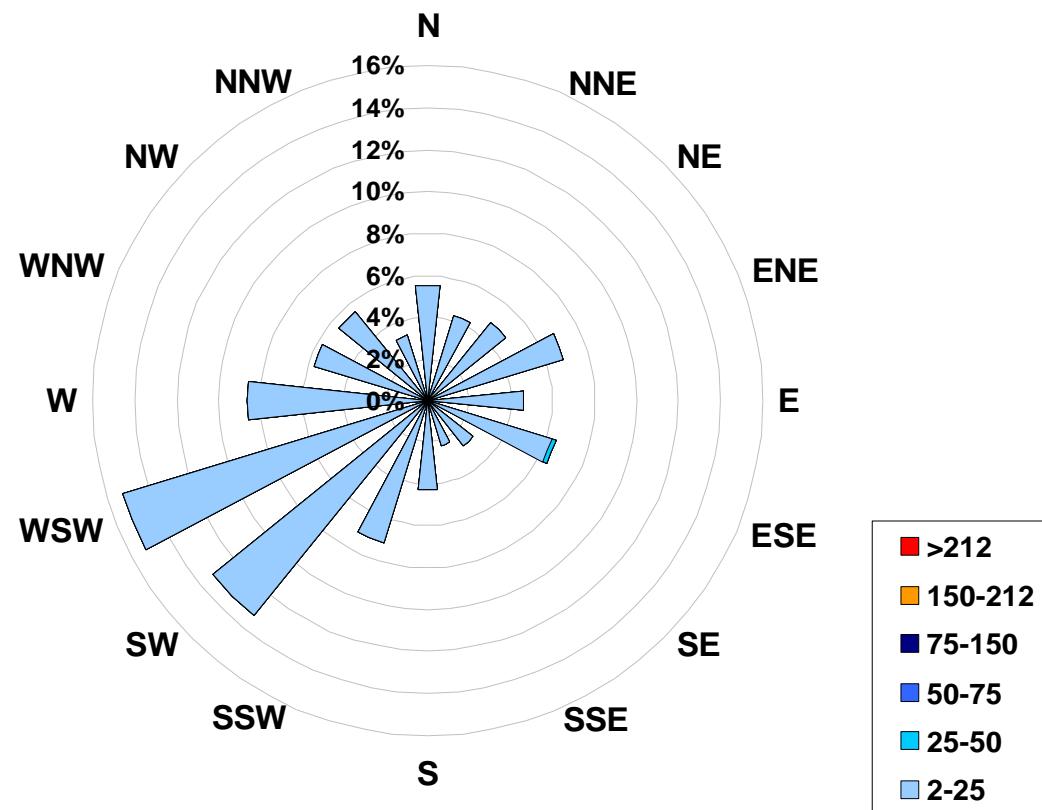


Figure 2. PAS - Crescent Heights Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms:	0%
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Frequency Distribution of NO ₂ in ppb		
Range		Frequency (hrs)
2.0	< 25	679
25	to 50	1
50	to 75	0
75	to 150	0
150	to 212	0
	> 212	0
Total Non-Zero Values		680



PAS - Crescent Heights - Nitric Oxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2007 to May 1, 2007

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

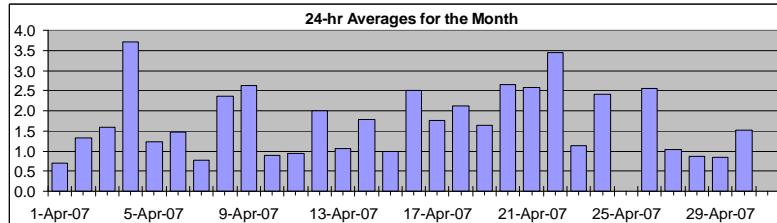
Maximum 1-hr Average:	37.6	ppb	4-Apr	7:00 8:00
Maximum 24-hr Average:	3.7	ppb	4-Apr	

AIC Time:	33 hrs	Operational Time:	680 hrs
Calibration Time:	6 hrs	AMD Operational Uptime:	99.9%
Percentile	99 95 75 50 25 5 1	Average	Median
	13.1 5.8 2.0 1.0 0.5 0.2 0.1	1.7 ppb	1.0 ppb

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start 1:00	0:00 2:00	1:00 3:00	2:00 4:00	3:00 5:00	4:00 6:00	5:00 7:00	6:00 8:00	7:00 9:00	8:00 10:00	9:00 11:00	10:00 12:00	11:00 13:00	12:00 14:00	13:00 15:00	14:00 16:00	15:00 17:00	16:00 18:00	17:00 19:00	18:00 20:00	19:00 21:00	20:00 22:00	21:00 23:00	22:00 24:00	23:00 0:00			
1-Apr-07	A	1	1	0	0	1	1	2	2	1	1	1	0	1	1	0	0	0	1	0	0	1	0	A	0.7	1.7		
2-Apr-07	1	1	1	1	1	2	3	4	2	2	3	2	1	2	2	1	1	1	1	0	0	0	0	A	1.3	3.9		
3-Apr-07	0	0	1	0	0	1	1	2	2	2	3	3	2	2	2	2	2	2	3	1	3	A	1	1	1.6	3.4		
4-Apr-07	0	2	1	0	0	1	12	38	13	6	5	2	0	1	1	1	1	0	0	0	A	1	0	0	3.7	37.6		
5-Apr-07	1	1	1	1	0	1	2	5	3	2	1	1	1	3	3	1	1	0	0	A	1	0	1	0	1.2	4.7		
6-Apr-07	0	0	0	0	0	1	2	2	6	2	0	1	1	1	0	0	1	4	0	A	0	0	9	0	0	1.5	9.4	
7-Apr-07	0	0	0	0	0	0	0	2	1	1	2	2	1	1	1	1	1	2	A	1	1	0	0	0	0	0.8	2.4	
8-Apr-07	5	2	1	0	0	1	3	7	12	5	3	2	1	2	1	1	1	1	A	1	1	1	1	3	1	2.4	11.9	
9-Apr-07	3	2	1	4	0	1	2	3	5	3	3	3	3	2	1	A	2	5	6	2	2	3	1	2	2.6	5.5		
10-Apr-07	0	0	0	1	3	2	2	2	2	1	0	0	0	0	0	A	1	1	0	0	0	0	0	0	0.9	2.8		
11-Apr-07	1	0	0	0	0	1	2	2	1	0	0	2	2	2	A	1	1	1	0	1	1	0	1	0	0.9	2.1		
12-Apr-07	0	2	1	0	0	6	5	4	2	3	1	1	A	1	2	1	2	1	1	1	1	1	1	3	6	2.0	6.3	
13-Apr-07	1	1	0	1	0	1	1	1	2	2	3	A	1	1	1	1	1	1	0	2	1	1	2	1	1.1	2.5		
14-Apr-07	1	0	0	1	0	1	8	3	1	2	A	1	1	1	1	1	1	1	1	1	1	1	8	P	1.8	8.3		
15-Apr-07	0	3	1	0	1	0	1	1	1	A	3	2	2	1	1	0	0	0	0	0	0	1	0	3	1	1.0	2.9	
16-Apr-07	4	0	3	1	2	6	17	10	A	0	1	1	2	1	1	0	0	0	0	0	1	0	0	1	4	1	2.5	16.5
17-Apr-07	1	1	2	0	1	2	7	A	2	1	2	8	2	1	3	1	0	1	1	1	0	0	0	4	1	1.8	8.5	
18-Apr-07	2	1	1	0	1	3	A	11	6	6	3	2	1	3	1	1	1	1	1	1	1	1	0	1	1	2.1	10.9	
19-Apr-07	1	0	1	6	0	A	1	1	1	1	3	3	3	3	1	2	2	1	1	1	2	1	1	1	1	1.6	5.8	
20-Apr-07	1	2	1	1	A	2	4	3	3	3	6	4	3	3	3	3	6	1	1	6	1	1	1	1	2	2.6	6.3	
21-Apr-07	0	3	4	A	2	1	2	2	2	1	2	1	1	1	2	1	1	1	1	1	1	1	6	23	2	2.6	22.9	
22-Apr-07	16	4	A	19	15	12	6	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3.4	19.5		
23-Apr-07	1	A	1	0	0	1	2	4	4	2	2	1	1	1	1	1	0	0	0	0	0	0	0	1	1.1	4.2		
24-Apr-07	A	1	1	1	1	3	14	10	3	1	3	1	1	1	1	1	1	1	2	4	2	2	0	A	2.4	14.3		
25-Apr-07	0	0	0	4	1	4	6	3	2	4	3	1	1	C	C	C	C	C	A	0	1	0	1	N	6.4			
26-Apr-07	1	1	A	6	1	2	6	6	4	4	4	2	2	2	2	1	3	1	2	2	3	0	2	1	2.6	6.4		
27-Apr-07	0	0	A	1	1	1	3	2	2	1	1	1	1	1	1	1	1	1	0	0	1	2	0	0	1	1.0	2.5	
28-Apr-07	2	A	0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0.9	1.9		
29-Apr-07	A	1	1	1	0	0	1	0	1	1	1	3	1	2	1	1	3	1	0	0	0	1	0	A	0.8	3.0		
30-Apr-07	1	0	0	0	0	1	1	2	1	1	2	3	4	4	4	4	3	2	1	0	0	0	0	A	1.5	4.2		
	Hourly Avg	1.6	1.0	0.9	1.8	1.3	2.1	4.1	4.7	2.7	2.1	2.1	1.9	1.4	1.4	1.4	1.0	1.5	0.9	1.0	1.1	0.9	1.5	1.9	1.2			
	Hourly Max	15.7	4.0	4.2	19.5	14.7	12.1	16.5	37.6	12.8	6.4	5.8	8.5	4.2	3.7	3.8	3.6	6.3	4.8	5.5	6.0	2.8	9.4	22.9	6.3			

HOURLY AVERAGE TABLE

Nitric Oxide (NO)



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



PAS - Crescent Heights - Oxides of Nitrogen Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2007 to May 1, 2007

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

Maximum 1-hr Average:	57.3	ppb	4-Apr	7:00 8:00
Maximum 24-hr Average:	10.3	ppb	9-Apr	

AIC Time:	33 hrs	Operational Time:	680 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	29.2	17.3	8.4	4.6	2.8	1.2	0.2		
								6.4 ppb	4.6 ppb

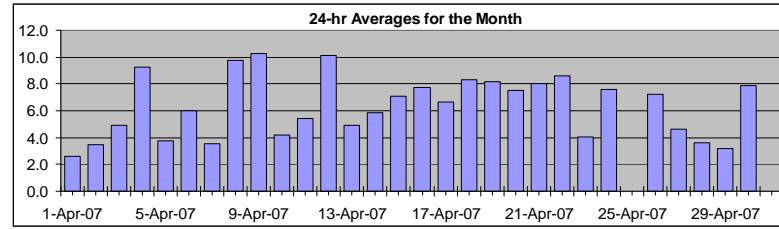
Day Mountain Standard Time

	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	25:00	26:00	27:00	28:00	29:00	30:00	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	25:00	26:00	27:00	28:00	29:00	30:00		
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	24:00	25:00	26:00	27:00	28:00	29:00	30:00			
1-Apr-07	A	5	3	2	3	4	8	5	4	3	2	1	0	1	1	1	2	3	3	3	2	2	2	1	1	A	3			2.6	8.2		
2-Apr-07	4	3	2	3	3	7	7	9	5	4	7	3	3	5	3	2	2	2	1	1	1	1	1	1	A	3			3.4	9.4			
3-Apr-07	2	1	1	1	1	3	4	4	3	3	3	4	3	2	3	3	3	7	18	13	13	A	8	10					4.9	18.1			
4-Apr-07	9	9	7	6	11	17	30	57	22	10	8	4	1	1	1	1	2	2	2	3	A	5	3	2					9.3	57.3			
5-Apr-07	3	4	3	3	3	4	7	10	6	4	2	2	3	5	5	2	2	1	2	A	5	4	4	4					3.8	10.2			
6-Apr-07	2	4	4	4	12	17	11	14	5	0	1	1	1	1	0	2	7	1	A	5	6	6	22	11	6				6.0	22.4			
7-Apr-07	3	4	0	0	2	5	8	3	2	5	4	2	2	2	1	2	3	A	8	11	7	4	3	1				3.5	10.8				
8-Apr-07	11	17	8	5	3	10	12	16	24	11	7	5	3	5	2	2	A	5	10	7	17	18	11	17			9.8	24.0					
9-Apr-07	14	17	11	21	10	12	11	10	14	9	10	9	8	6	6	A	11	14	12	7	6	7	4	7			10.3	21.1					
10-Apr-07	4	4	3	3	10	10	9	6	4	3	2	2	2	1	A	5	3	2	3	2	2	4	7	7					4.2	9.9			
11-Apr-07	6	2	2	2	4	9	8	4	2	3	5	7	7	A	5	4	4	2	4	7	9	11	9	7					5.4	11.4			
12-Apr-07	8	15	10	5	7	17	17	13	5	6	3	2	A	6	7	5	7	5	6	10	12	18	24	24					10.1	24.3			
13-Apr-07	7	6	2	5	3	5	5	4	4	5	5	5	A	5	4	4	3	4	4	3	7	7	8	9	4				4.9	9.1			
14-Apr-07	3	3	4	4	3	5	15	7	3	3	A	5	4	3	2	4	5	4	6	8	12	21	P	7			5.9	20.5					
15-Apr-07	3	9	7	3	7	4	8	4	5	A	13	9	6	3	3	2	2	2	3	9	11	9	17	24				7.1	24.0				
16-Apr-07	17	7	10	8	11	22	33	22	A	5	3	4	5	2	4	2	2	2	4	2	3	7	2					7.7	33.0				
17-Apr-07	3	4	5	2	4	10	18	A	8	7	10	24	7	3	5	3	2	3	5	5	3	4	3	16				6.6	23.9				
18-Apr-07	12	13	11	3	7	16	A	29	18	18	9	4	4	6	4	3	4	3	6	4	3	3	4	4				8.3	28.9				
19-Apr-07	5	2	3	12	3	A	10	5	4	4	6	13	13	11	8	6	7	9	9	10	13	9	12	12				8.1	13.2				
20-Apr-07	9	9	7	3	A	10	11	10	8	6	11	9	7	7	7	7	15	5	3	13	4	3	4	7			7.5	14.5					
21-Apr-07	3	6	11	A	9	4	7	6	6	4	4	3	3	2	5	3	2	1	3	4	10	22	49	19				8.0	49.5				
22-Apr-07	34	20	A	38	30	26	17	8	1	2	1	2	1	0	0	0	0	0	1	4	1	3	4	3				8.6	37.8				
23-Apr-07	5	A	7	3	2	7	9	12	9	5	5	4	2	2	4	2	1	1	1	2	2	2	4					4.0	11.8				
24-Apr-07	A	11	12	9	12	13	26	17	6	3	6	3	2	2	4	3	3	4	7	8	6	7	3	A				7.6	25.8				
25-Apr-07	5	4	6	8	8	12	18	11	8	11	7	3	5	C	C	C	C	C	A	7	11	11	8		N				7.3	17.6			
26-Apr-07	6	4	A	12	8	9	16	15	8	9	10	6	5	4	6	3	8	3	9	7	9	2	6	3				7.3	15.7				
27-Apr-07	2	2	A	7	6	5	9	8	5	4	2	2	2	3	5	3	5	6	2	7	7	5	4	5				4.6	9.1				
28-Apr-07	7	A	6	7	4	4	4	3	3	2	3	3	3	2	2	2	2	1	2	5	6	5	4	4				3.6	6.8				
29-Apr-07	A	8	7	4	2	2	2	1	1	2	6	4	4	2	3	5	2	2	4	4	2	1	A				3.2	8.4					
30-Apr-07	5	3	2	5	4	9	8	12	5	4	6	10	13	11	12	12	11	10	8	7	4	9	A	9			7.8	12.6					

Hourly Avg	7.0	7.0	5.7	6.5	6.6	9.6	12.0	11.3	6.8	5.4	5.4	5.2	4.2	3.8	4.0	3.2	4.4	3.8	5.0	6.1	6.5	7.7	8.3	8.2					
Hourly Max	33.7	20.2	12.2	37.8	30.1	26.1	33.0	57.3	24.0	18.3	12.6	23.9	12.9	11.1	11.8	12.4	14.5	13.9	18.1	12.9	17.3	22.4	49.5	24.1					

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)



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

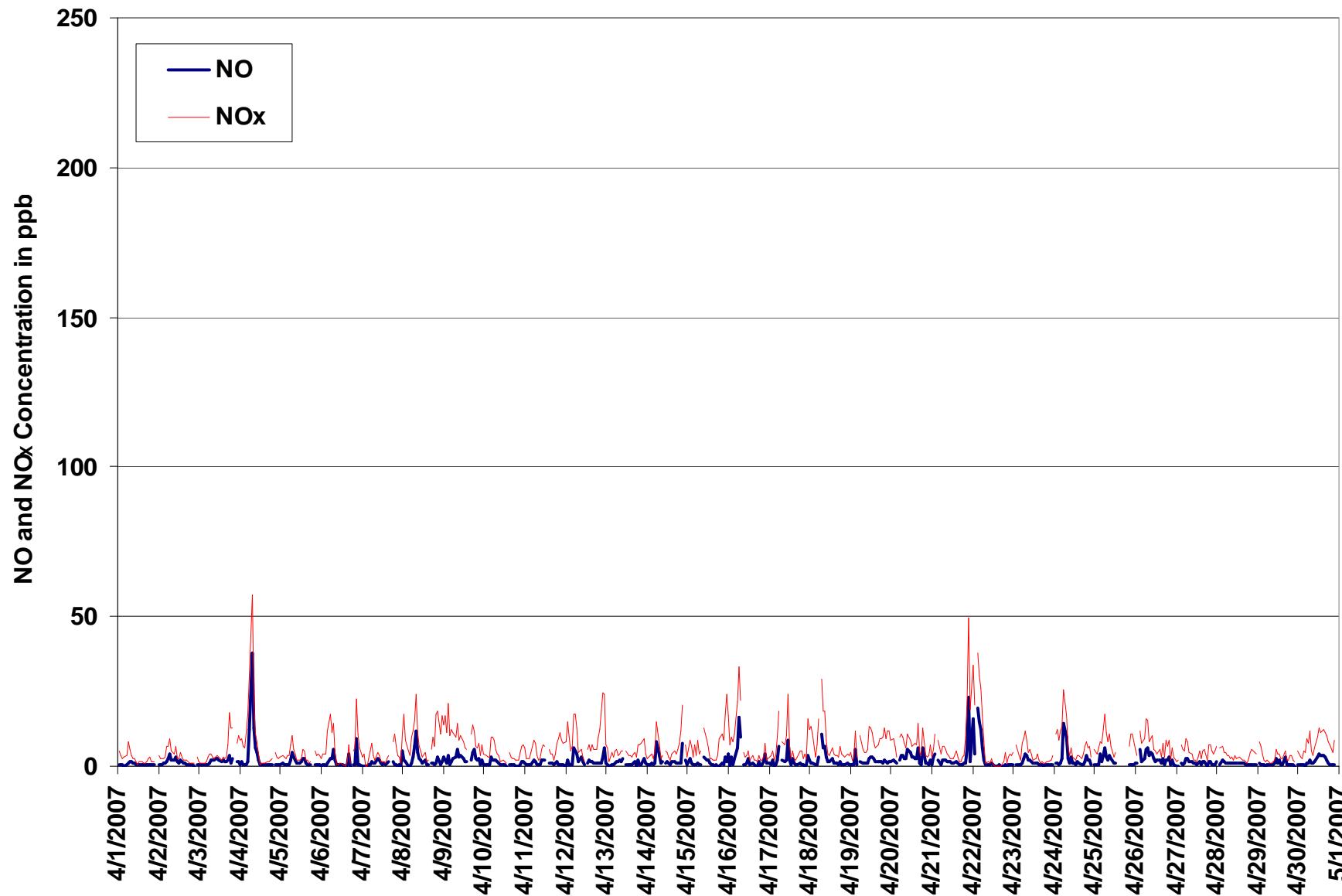


Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: April 1, 2007 to May 1, 2007

Summary

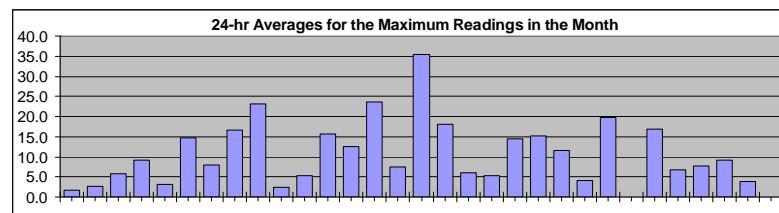
Maximum 1-hr Value:	175.6	ppb	6-Apr	21:00 22:00
Maximum 24-hr Value:	35.5	ppb	16-Apr	

AIC Time:	33 hrs	Operational Time:	680 hrs
Calibration Time:	6 hrs	AMD Operational Uptime:	99.9%
Percentile	99 95 75 50 25 5 1	Average	
	124.1 57.7 7.3 2.7 1.5 1.0 0.7	Median	11.4 ppb 2.7 ppb

Day Mountain Standard Time

	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	24:00	Daily Average	Daily Maximum
1-Apr-07	A 1:00	2	2	2	1	1	2	3	3	2	3	2	2	1	2	2	1	1	1	1	1	1	1	1	1	A	1.7	3.4
2-Apr-07	2 1:00	1	2	2	2	3	6	6	3	3	7	3	2	6	3	2	2	1	1	1	1	1	1	1	1	A	2.7	7.2
3-Apr-07	2 1:00	1	1	1	1	2	2	4	3	3	4	7	4	3	12	3	5	5	7	3	19	A	36	5		5.7	35.9	
4-Apr-07	1 1:00	20	4	1	1	5	34	61	44	10	8	4	1	2	3	2	1	1	1	1	A	1	1	1	1	9.2	61.2	
5-Apr-07	1 1:00	2	1	2	2	1	4	7	5	3	2	3	3	7	15	2	2	1	1	1	A	2	1	2	1	3.1	15.2	
6-Apr-07	1 1:00	1	1	1	1	4	9	6	9	5	1	2	2	1	2	1	9	100	1	A	2	2	176	1	1	14.7	175.6	
7-Apr-07	2 1:00	1	1	1	1	1	3	3	3	2	19	3	3	3	2	16	1	23	52	A	29	12	1	2	2	1	7.9	51.6
8-Apr-07	147 1:00	13	21	1	2	4	14	18	23	9	5	3	3	62	1	2	A	2	2	1	2	28	1	18		16.6	147.4	
9-Apr-07	25 1:00	4	5	34	1	8	7	5	9	6	6	6	6	26	4	3	A	4	62	126	42	36	74	3	37		23.1	126.2
10-Apr-07	2 1:00	1	1	2	10	5	6	3	3	2	1	1	1	1	A	1	1	1	1	1	1	2	4	3		2.4	9.9	
11-Apr-07	3 1:00	2	1	3	5	4	2	2	2	3	3	3	3	A	6	6	15	1	28	23	1	1	3	1	2		5.3	27.9
12-Apr-07	1 1:00	6	2	1	1	69	44	7	2	57	19	3	A	3	5	4	3	3	11	3	9	4	10	93		15.6	93.5	
13-Apr-07	33 1:00	16	0	4	2	12	4	2	23	4	56	A	2	2	2	1	17	31	2	45	1	2	24	2		12.6	56.3	
14-Apr-07	3 1:00	2	4	35	3	7	131	29	3	34	A	3	5	2	1	39	3	2	2	4	2	149	P	55		23.5	149.5	
15-Apr-07	1 1:00	61	3	1	2	1	4	2	2	A	5	6	5	2	2	2	1	1	1	1	17	1	37	13		7.4	61.3	
16-Apr-07	75 1:00	1	73	4	86	63	124	14	A	2	18	16	51	16	31	1	1	1	50	1	15	59	81	33		35.5	123.6	
17-Apr-07	30 1:00	5	77	1	1	48	58	A	4	3	3	54	3	2	71	11	2	1	2	1	1	1	1	1	32		18.0	77.0
18-Apr-07	33 1:00	2	3	1	1	9	A	18	10	10	19	2	3	5	3	3	2	2	4	2	2	1	2	2		6.0	32.7	
19-Apr-07	3 1:00	1	3	58	1	A	2	2	2	3	3	4	6	6	5	2	3	3	2	3	3	2	3	2		5.3	57.6	
20-Apr-07	2 1:00	9	4	2	A	4	23	7	4	5	14	48	6	6	4	6	82	12	2	52	24	3	1	15		14.5	82.2	
21-Apr-07	1 1:00	103	50	A	13	1	12	17	7	2	4	2	3	2	4	3	2	2	1	2	3	50	61	4		15.2	103.1	
22-Apr-07	132 1:00	11	A	32	29	25	12	4	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1		11.5	132.2	
23-Apr-07	1 1:00	A	2	1	1	3	4	21	6	3	3	3	2	30	2	2	1	1	1	1	1	1	1	1		4.1	29.8	
24-Apr-07	A 1:00	2	2	2	4	6	27	29	4	16	79	19	14	2	11	4	2	2	23	66	68	51	2	A		19.7	79.0	
25-Apr-07	1 1:00	2	131	6	50	49	6	3	42	5	2	2	C	C	C	C	C	C	A	1	4	2	2		N	130.6		
26-Apr-07	14 1:00	2	A	104	3	7	15	12	5	6	7	5	2	3	13	3	34	2	35	64	25	1	23	3		16.9	104.2	
27-Apr-07	1 1:00	A	2	4	2	6	5	3	4	2	2	2	2	3	24	1	11	21	2	5	48	2	2	5		6.8	47.7	
28-Apr-07	21 1:00	A	1	39	49	22	2	10	2	1	2	2	2	2	2	3	3	3	2	3	3	2	2	2		7.7	49.0	
29-Apr-07	A 1:00	2	1	2	1	1	1	1	2	2	54	18	35	2	2	68	1	1	2	1	1	1	A	1		9.1	67.9	
30-Apr-07	2 1:00	1	1	1	1	1	5	2	3	3	3	3	23	6	4	5	5	4	3	3	3	2	A	1		3.9	23.3	

Hourly Avg	20.0	9.8	10.0	16.2	8.2	13.1	21.0	10.7	6.5	9.0	10.0	9.9	6.3	8.2	8.4	5.1	15.1	6.1	12.3	12.4	10.1	21.6	11.4	12.5
Hourly Max	147.4	103.1	77.0	130.6	86.2	68.6	131.3	61.2	44.2	56.7	79.0	54.3	51.5	62.1	70.7	38.6	100.3	61.5	126.2	66.2	67.8	175.6	81.5	93.5



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



Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: April 1, 2007 to May 1, 2007

Summary

Maximum 1-hr Value:	215.8 ppb	6-Apr 21:00 22:00
Maximum 24-hr Value:	52.8 ppb	16-Apr

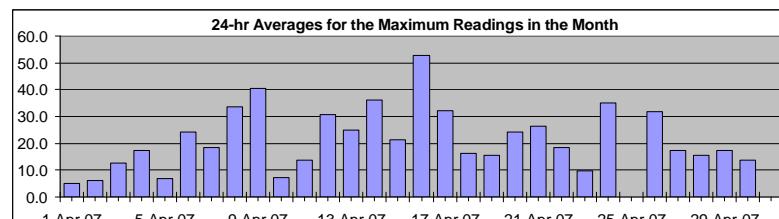
AIC Time:	33 hrs	Operational Time:	680 hrs
Calibration Time:	6 hrs	AMD Operational Uptime:	99.9%
Percentile	99 95 75 50 25 5 1	Average	Median
	146.5 85.5 22.8 10.2 5.0 2.4 1.4	21.8 ppb	10.2 ppb

Day Mountain Standard Time

	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	24:00	Daily Average	Daily Maximum
1-Apr-07	A 1:00	10	5	4	5	5	12	10	7	4	5	6	1	3	3	2	2	5	4	5	4	3	3	A	4.9	12.5		
2-Apr-07	7 2:00	3	4	4	6	11	13	13	7	6	13	4	5	12	6	4	4	3	2	2	2	2	A	6	6.1	13.4		
3-Apr-07	3 3:00	2	2	2	2	5	6	7	5	5	6	21	5	4	18	4	7	16	28	21	40	A	63	18	12.7	62.9		
4-Apr-07	10 4:00	36	21	9	16	26	56	85	63	17	13	7	2	4	4	2	2	3	3	4	A	8	4	4	17.3	85.5		
5-Apr-07	4 5:00	5	4	5	6	7	12	16	10	5	4	4	5	12	23	3	3	2	3	A	11	6	7	5	7.0	22.8		
6-Apr-07	9 6:00	7	10	8	23	31	17	20	12	2	2	2	2	3	2	20	129	3	A	8	9	216	18	8	24.3	215.8		
7-Apr-07	6 7:00	10	1	1	5	14	12	9	4	34	5	4	3	32	2	45	99	A	55	42	13	14	15	3	18.6	99.2		
8-Apr-07	188 8:00	46	50	9	7	16	31	35	41	19	11	9	6	115	3	5	A	9	18	13	25	53	15	47	33.5	188.5		
9-Apr-07	40 9:00	21	25	62	16	26	25	16	19	13	15	18	52	12	9	A	15	95	158	56	63	100	10	67	40.6	158.0		
10-Apr-07	7 10:00	6	5	4	26	17	15	9	6	6	3	4	3	3	A	8	4	4	4	3	3	7	10	10	7.3	25.6		
11-Apr-07	11 11:00	4	4	6	8	15	11	6	4	6	8	9	9	A	14	15	33	3	53	46	13	16	12	11	13.8	53.4		
12-Apr-07	14 12:00	21	16	12	10	93	74	18	7	79	32	5	A	9	10	10	12	13	39	15	25	30	37	124	30.7	124.1		
13-Apr-07	60 13:00	39	3	15	7	28	11	6	38	10	78	A	9	6	9	5	53	47	6	73	10	10	37	9	24.8	77.6		
14-Apr-07	5 14:00	5	9	45	6	16	156	48	5	54	A	8	13	7	3	82	8	9	13	23	18	175	P	90	36.3	175.2		
15-Apr-07	6 15:00	89	23	18	19	8	20	9	15	A	17	19	17	5	5	4	4	3	8	15	55	14	78	42	21.5	88.8		
16-Apr-07	109 16:00	9	97	14	113	86	144	28	A	8	38	32	80	44	54	4	4	2	73	4	21	82	112	56	52.8	143.8		
17-Apr-07	43 17:00	20	97	3	6	85	91	A	14	16	16	82	12	4	113	29	5	7	9	7	4	12	4	58	32.1	113.3		
18-Apr-07	61 18:00	17	21	5	10	27	A	38	26	25	31	6	11	8	8	5	6	19	7	6	8	8	14	16.3	61.4			
19-Apr-07	15 19:00	3	10	85	10	A	13	10	6	8	14	16	19	15	15	8	9	14	14	15	17	12	14	15	15.6	85.3		
20-Apr-07	10 20:00	25	14	5	A	12	38	15	9	8	25	65	11	11	9	12	103	17	5	82	36	8	7	32	24.3	102.7		
21-Apr-07	4 21:00	135	71	A	27	6	27	28	16	6	7	4	4	4	14	8	3	4	5	7	19	80	97	25	26.2	134.8		
22-Apr-07	166 22:00	28	A	52	45	40	27	13	3	3	2	4	2	1	1	1	1	1	4	11	2	5	6	6	18.4	165.7		
23-Apr-07	6 23:00	A	12	5	3	14	17	37	13	7	8	7	4	51	7	4	2	2	2	4	4	3	7	9.7	50.6			
24-Apr-07	A 0:00	19	19	11	17	19	40	43	9	36	119	41	23	4	27	10	4	8	52	100	86	79	9	A	35.2	118.5		
25-Apr-07	11 1:00	5	9	161	19	65	75	18	10	69	11	5	6	C	C	C	C	C	C	A	14	25	16	16	N	160.9		
26-Apr-07	41 2:00	6	A	132	11	20	32	28	10	12	15	8	7	7	26	6	69	5	63	111	57	4	54	10	31.9	132.0		
27-Apr-07	3 3:00	5	A	15	24	10	17	16	8	10	5	4	3	8	55	4	35	51	4	24	69	8	7	17	17.5	69.1		
28-Apr-07	41 4:00	A	10	62	74	47	5	20	5	5	4	8	5	7	5	4	6	4	3	6	8	10	7	9	15.5	74.1		
29-Apr-07	A 5:00	15	11	6	3	2	3	2	2	4	5	95	36	61	4	4	85	4	5	17	6	3	2	A	17.2	94.7		
30-Apr-07	10 6:00	5	3	10	8	23	13	15	9	9	9	50	16	12	15	17	16	13	12	11	8	16	A	13	13.6	49.8		

Hourly Avg 33.0 21.3 20.7 26.6 18.3 26.6 35.0 21.3 13.3 16.8 18.0 18.7 12.6 16.7 16.6 11.7 25.8 12.7 23.8 26.1 22.4 34.9 24.2 26.7

Hourly Max 188.5 134.8 97.4 160.9 112.9 92.5 156.3 85.5 63.2 79.1 118.5 94.7 79.8 115.1 113.3 81.8 129.1 95.5 158.0 111.5 85.5 215.8 111.6 124.1



Status Flag Characters		AIC - Zero / Span Check	
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

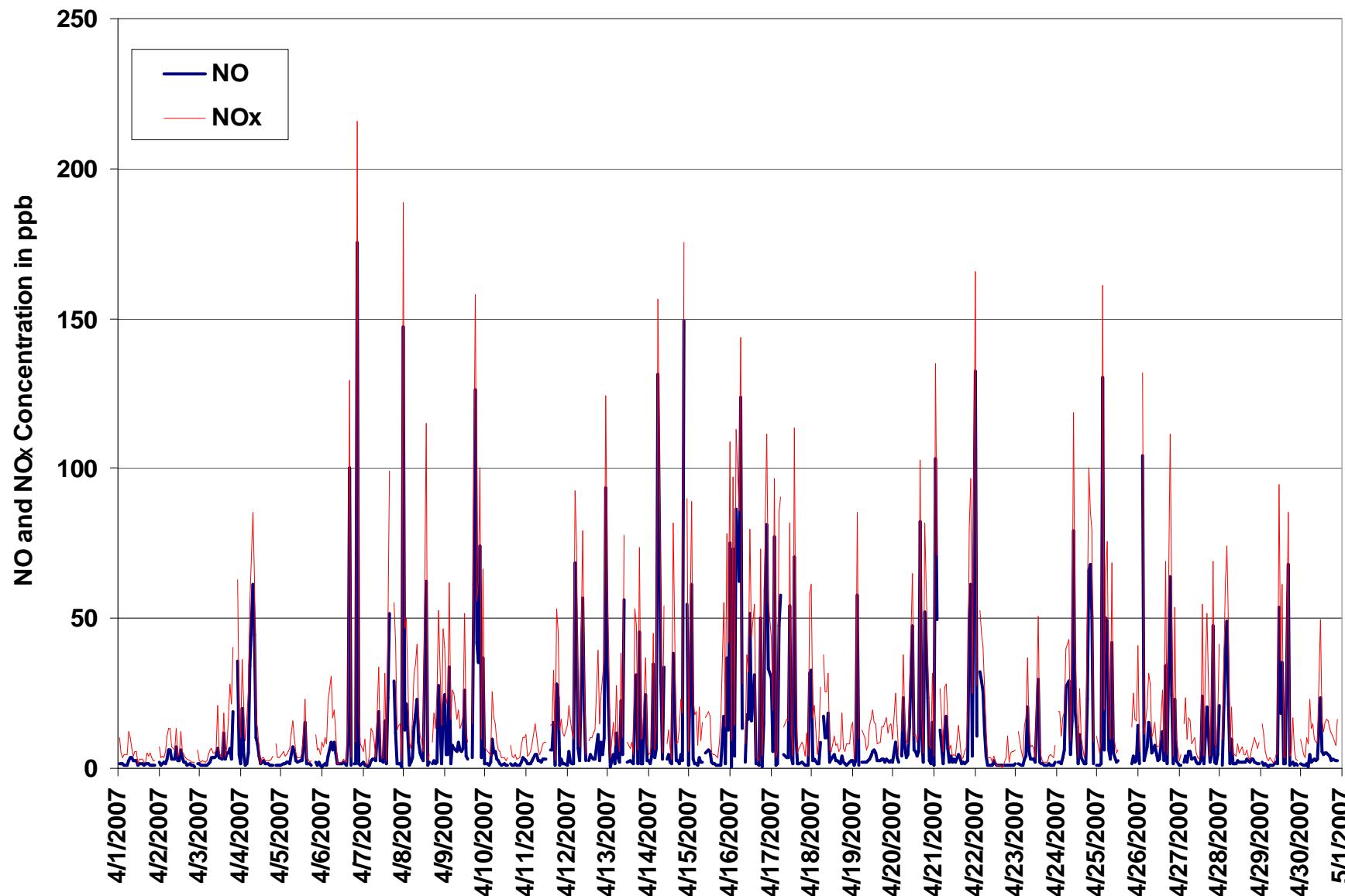


Figure 4. PAS - Crescent Heights Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend



PAS - Crescent Heights - Ozone Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2007 to May 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: 60.0 ppb 28-Apr 10:00 11:00
Maximum 24-hr Average: 47.7 ppb 29-Apr

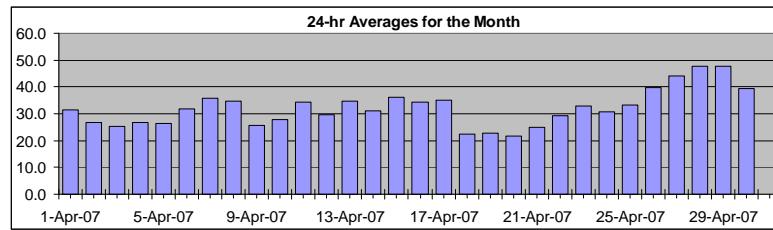
AIC Time:	33 hrs	Operational Time:	683 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	57.1	50.8	40.7	31.6	24.2	14.1	6.1	32.1 ppb	31.6 ppb

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start 1:00	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-Apr-07	A	37	38	37	32	29	24	26	30	31	32	34	35	36	35	35	35	35	31	26	26	24	26	A	31.6	37.6	
2-Apr-07	27	27	27	28	26	24	26	24	25	23	20	22	22	24	25	27	30	31	33	32	33	34	A	30	26.8	33.7	
3-Apr-07	29	29	29	30	29	24	23	25	25	23	22	23	25	27	28	29	28	25	17	20	20	A	28	26	25.5	29.8	
4-Apr-07	25	26	27	27	22	13	9	9	20	24	25	30	36	36	35	36	34	33	30	A	31	29	25	26.8	36.4		
5-Apr-07	23	22	22	22	20	19	17	18	20	21	24	26	28	28	29	32	36	36	A	33	32	31	30	26.3	36.1		
6-Apr-07	30	27	26	24	14	10	20	24	34	38	40	42	42	43	43	42	41	42	A	37	33	23	26	28	31.7	42.7	
7-Apr-07	28	26	31	32	29	26	27	32	35	38	40	43	43	44	43	42	A	38	33	35	37	40	40	35.9	43.7		
8-Apr-07	37	26	35	34	35	28	23	21	24	36	41	45	48	49	50	49	A	48	41	41	25	21	25	34.7	50.4		
9-Apr-07	16	13	20	10	17	16	17	21	22	32	33	35	36	37	36	A	28	26	30	31	30	27	27	27	25.5	36.5	
10-Apr-07	23	20	19	19	14	15	14	16	22	27	33	34	36	37	A	37	37	37	36	36	36	33	30	28	27.7	37.5	
11-Apr-07	28	33	34	33	30	26	27	33	39	39	36	36	37	A	44	45	44	43	40	35	31	27	26	24	34.3	45.1	
12-Apr-07	22	15	19	24	22	17	16	22	33	37	40	42	A	44	42	45	44	48	46	36	27	19	12	14	29.8	47.7	
13-Apr-07	26	26	31	29	29	26	24	26	29	34	38	A	49	49	50	51	51	48	44	37	29	24	22	34.6	51.3		
14-Apr-07	22	21	21	22	26	24	20	27	32	35	A	41	41	43	44	43	42	42	38	31	22	18	P	27	31.0	44.3	
15-Apr-07	32	29	28	34	28	30	29	37	36	A	28	34	41	47	48	50	49	50	47	40	38	34	29	15	36.3	50.3	
16-Apr-07	19	19	17	15	14	8	7	15	A	45	48	46	46	47	47	48	49	49	47	45	43	41	36	37	34.2	48.8	
17-Apr-07	35	32	32	33	32	27	22	A	34	31	30	23	39	46	47	47	47	46	41	37	40	33	31	20	35.0	47.0	
18-Apr-07	22	17	20	26	20	10	A	5	7	11	23	28	29	27	31	32	31	29	24	25	25	26	25	22.5	31.9		
19-Apr-07	25	29	30	26	30	A	26	29	30	29	27	20	20	22	24	24	22	20	19	16	13	15	13	12	22.7	30.3	
20-Apr-07	14	13	16	17	A	15	14	15	16	17	17	18	18	22	23	26	27	32	33	28	31	31	29	27	21.7	33.2	
21-Apr-07	28	27	23	A	23	23	22	21	23	24	25	27	30	32	31	35	38	38	33	28	21	14	2	7	25.0	38.1	
22-Apr-07	3	2	A	1	1	2	7	19	32	32	35	37	41	47	48	49	50	50	47	43	41	33	27	24	29.1	50.4	
23-Apr-07	22	A	24	25	26	19	17	17	20	26	30	34	42	47	46	46	45	45	43	43	41	38	36	37	31	32.9	46.9
24-Apr-07	A	18	9	10	8	7	6	13	21	36	44	46	45	46	46	48	48	48	45	41	38	34	33	32	A	30.6	48.2
25-Apr-07	29	28	24	25	22	19	18	21	24	25	35	41	42	45	47	47	47	47	42	33	42	35	31	30	33.4	47.4	
26-Apr-07	31	30	A	28	23	19	17	C	C	C	A	44	51	55	55	56	54	54	45	42	38	39	36	35	39.6	55.9	
27-Apr-07	35	34	A	36	36	36	36	31	34	41	44	49	51	53	55	58	58	55	51	51	45	40	39	39	37	44.0	58.4
28-Apr-07	34	A	32	32	36	40	41	44	50	58	60	57	59	57	57	55	55	55	51	49	42	42	41	47.7	60.0		
29-Apr-07	A	36	35	39	41	41	41	46	52	54	54	52	51	50	51	49	50	52	59	56	48	47	45	A	47.7	59.2	
30-Apr-07	40	41	39	36	35	33	35	29	39	42	40	40	40	41	42	43	45	46	45	43	32	A	34	39.5	46.4		

Hourly Avg	26.1	25.1	26.1	25.9	24.9	21.6	21.4	23.9	29.1	32.6	34.6	36.2	38.8	40.8	41.6	42.4	41.6	41.5	39.2	35.8	33.2	30.3	28.7	26.4
Hourly Max	40.4	40.7	38.9	39.4	41.2	40.8	40.8	46.0	52.1	58.1	60.0	56.5	58.8	57.1	58.0	58.4	55.2	55.4	59.2	55.8	48.1	46.8	44.8	40.7

HOURLY AVERAGE TABLE

Ozone (O₃)



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

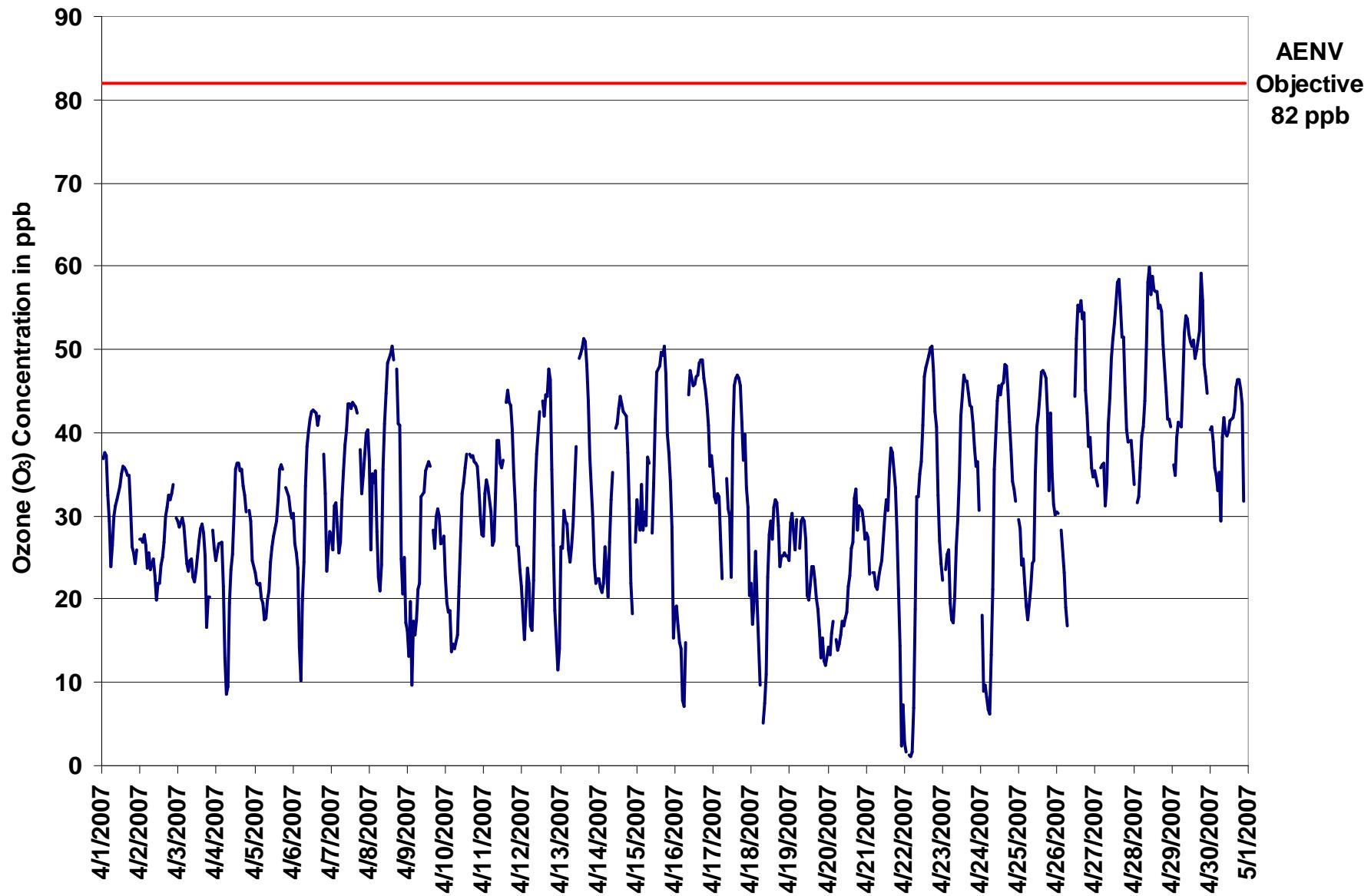


Figure 5. PAS - Crescent Heights Ozone 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: April 1, 2007 to May 1, 2007

Summary

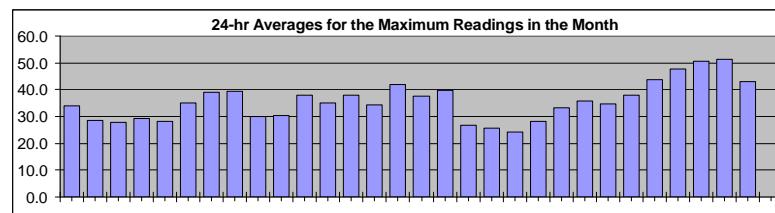
Maximum 1-hr Value:	62.8 ppb	29-Apr 18:00 19:00
Maximum 24-hr Value:	51.2 ppb	29-Apr

AIC Time:	33 hrs	Operational Time:	683 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%
Percentile	99 95 75 50 25 5 1	Average	Median
	59.9 53.5 43.6 35.0 27.5 18.1 9.7	35.5 ppb	35.0 ppb

Day Mountain Standard Time

	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	24-hour Average	Daily Maximum
1-Apr-07	A 1:00	39	41	40	35	32	27	30	32	33	35	36	37	37	37	36	37	35	29	28	27	28	A	34.0	40.5		
2-Apr-07	29 2:00	28	28	29	28	27	28	26	26	25	22	23	24	25	27	29	33	34	35	34	34	35	A	31	34.9		
3-Apr-07	30 3:00	30	31	31	30	27	25	26	26	24	24	25	25	27	28	30	30	29	29	23	24	27	A	31	30		
4-Apr-07	27 4:00	29	30	29	26	17	13	15	25	26	27	36	37	37	37	37	37	34	32	A	32	31	26	29.4	37.5		
5-Apr-07	25 5:00	23	23	23	21	21	20	20	21	23	26	28	28	30	32	34	38	38	A	36	34	32	31	28.1	37.8		
6-Apr-07	33 6:00	29	28	28	22	13	25	29	37	41	42	43	44	44	44	45	45	44	A	40	36	32	30	30	34.9	44.7	
7-Apr-07	30 7:00	30	33	33	32	29	29	35	40	41	43	45	46	45	46	46	45	45	A	42	38	41	41	42	38.9	46.2	
8-Apr-07	42 8:00	35	39	40	39	37	27	26	35	41	43	48	50	52	52	51	A	50	48	45	32	27	28	25	39.6	51.8	
9-Apr-07	20 9:00	18	27	21	21	22	24	25	27	38	37	39	40	39	39	A	30	32	34	34	32	31	29	31	30.0	40.3	
10-Apr-07	28 10:00	21	20	20	18	18	18	19	24	31	34	36	37	39	A	39	38	39	39	39	38	36	35	31	30.3	38.9	
11-Apr-07	33 11:00	35	37	37	33	31	32	36	42	41	40	38	39	A	45	47	46	45	43	42	35	34	30	27	37.8	46.7	
12-Apr-07	25 12:00	19	23	26	25	24	22	28	37	41	43	45	A	46	45	49	48	53	53	42	34	29	20	25	34.9	53.3	
13-Apr-07	30 13:00	29	33	33	35	30	27	28	32	37	42	A	51	51	53	53	53	51	47	41	37	27	28	25	38.0	53.2	
14-Apr-07	25 14:00	23	22	25	29	26	25	31	34	39	A	43	43	46	46	46	46	45	41	38	25	29	P	30	34.4	46.4	
15-Apr-07	39 15:00	38	34	37	35	33	36	40	40	A	33	37	49	49	51	51	51	53	52	50	44	41	40	28	41.8	52.7	
16-Apr-07	26 16:00	24	21	20	17	14	12	18	A	47	50	49	48	49	49	50	52	50	50	47	45	44	40	37.4	51.9		
17-Apr-07	37 17:00	36	34	34	35	33	30	A	40	35	34	34	46	49	50	50	49	48	46	39	44	44	34	39.7	49.7		
18-Apr-07	28 18:00	23	26	28	26	19	A	11	10	20	28	31	31	33	34	34	33	33	28	27	27	28	27	26.7	34.3		
19-Apr-07	29 19:00	31	33	31	32	A	30	31	32	31	32	24	23	25	27	26	24	24	21	20	17	17	15	15	25.7	32.5	
20-Apr-07	16 20:00	17	18	18	A	18	16	17	18	19	19	19	20	23	25	30	31	35	35	33	33	31	30	24.1	34.9		
21-Apr-07	30 21:00	29	28	A	26	25	24	25	25	27	30	33	34	35	38	40	40	37	32	27	22	6	14	28.3	40.2		
22-Apr-07	9 22:00	5	A	5	4	3	21	30	34	36	37	40	46	49	50	51	52	52	50	46	44	37	32	28	33.1	52.5	
23-Apr-07	25 23:00	A	25	27	28	24	22	21	24	30	32	39	47	49	48	48	47	45	45	44	41	38	40	34	35.8	48.7	
24-Apr-07	A 00:00	26	12	15	11	9	13	19	29	42	49	48	46	48	48	52	50	48	45	42	38	37	36	A	34.7	51.7	
25-Apr-07	32 01:00	31	27	28	27	23	25	26	27	29	41	43	45	49	50	50	50	50	48	46	44	36	35	37.9	50.3		
26-Apr-07	35 02:00	33	A	32	27	24	24	C	C	C	A	50	56	57	58	58	58	57	53	46	44	42	40	37	43.8	58.5	
27-Apr-07	37 03:00	36	A	38	39	38	39	40	45	49	51	53	55	59	61	60	60	56	54	52	49	41	42	39	47.6	60.8	
28-Apr-07	39 04:00	A	34	35	40	42	44	47	55	60	62	60	61	60	59	59	58	57	56	55	48	46	43	45	50.6	62.0	
29-Apr-07	A 05:00	42	42	42	44	43	43	51	56	56	55	54	54	54	51	53	59	63	62	51	49	46	A	51.2	62.8		
30-Apr-07	43 06:00	43	40	39	37	39	40	39	44	45	45	42	42	43	43	45	48	49	49	48	39	A	38	43.1	49.3		

Hourly Avg 29.7 28.7 29.2 29.2 28.4 25.5 26.2 28.1 32.8 35.9 37.6 39.3 41.6 43.1 43.9 44.6 44.2 44.5 42.9 40.3 37.4 35.0 32.4 30.6
Hourly Max 42.6 43.1 42.2 41.7 43.8 42.8 43.7 51.1 55.8 60.0 62.0 59.7 61.4 59.8 60.8 60.4 59.7 59.1 62.8 61.9 51.4 49.2 45.9 44.6



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

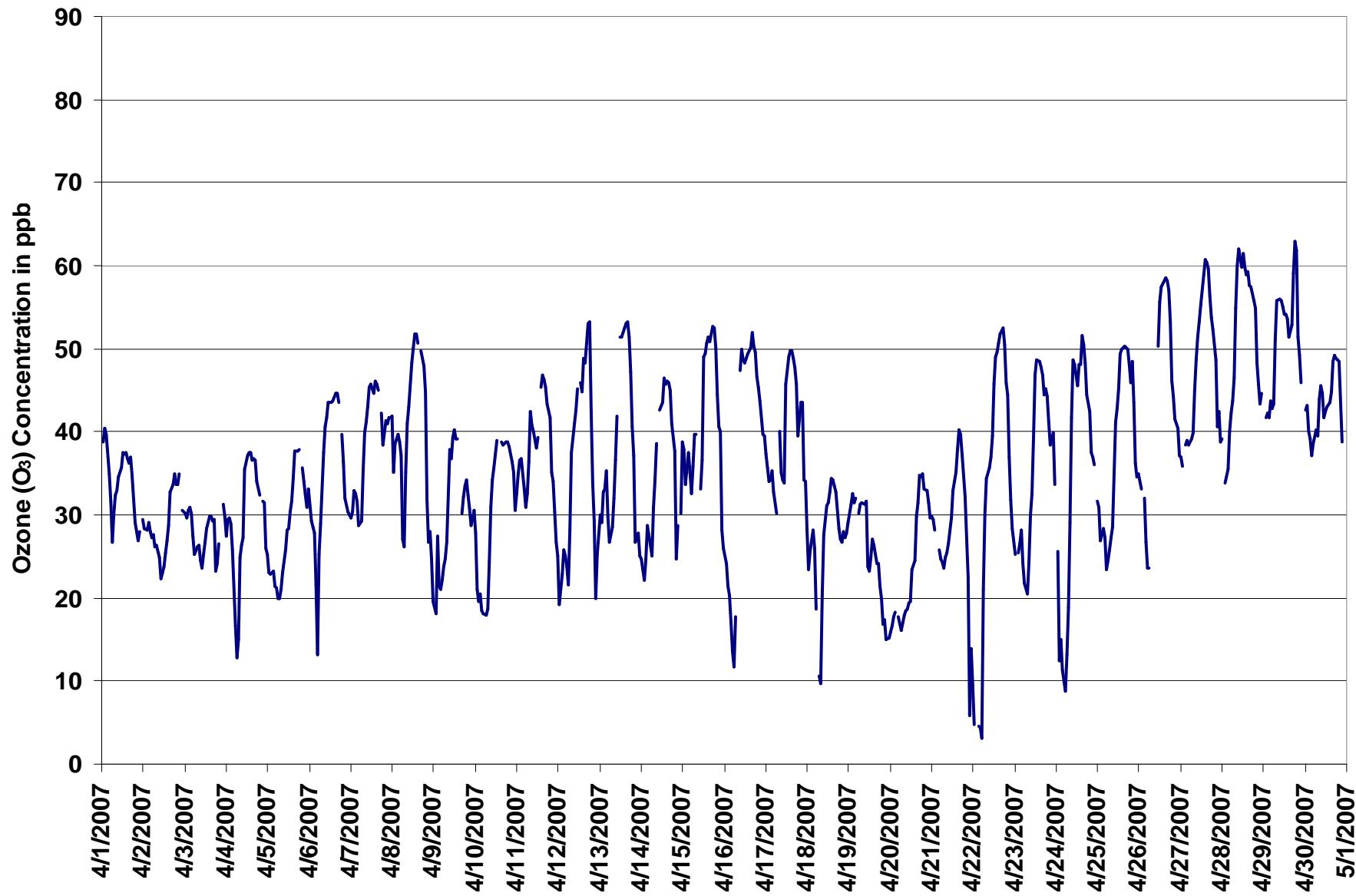
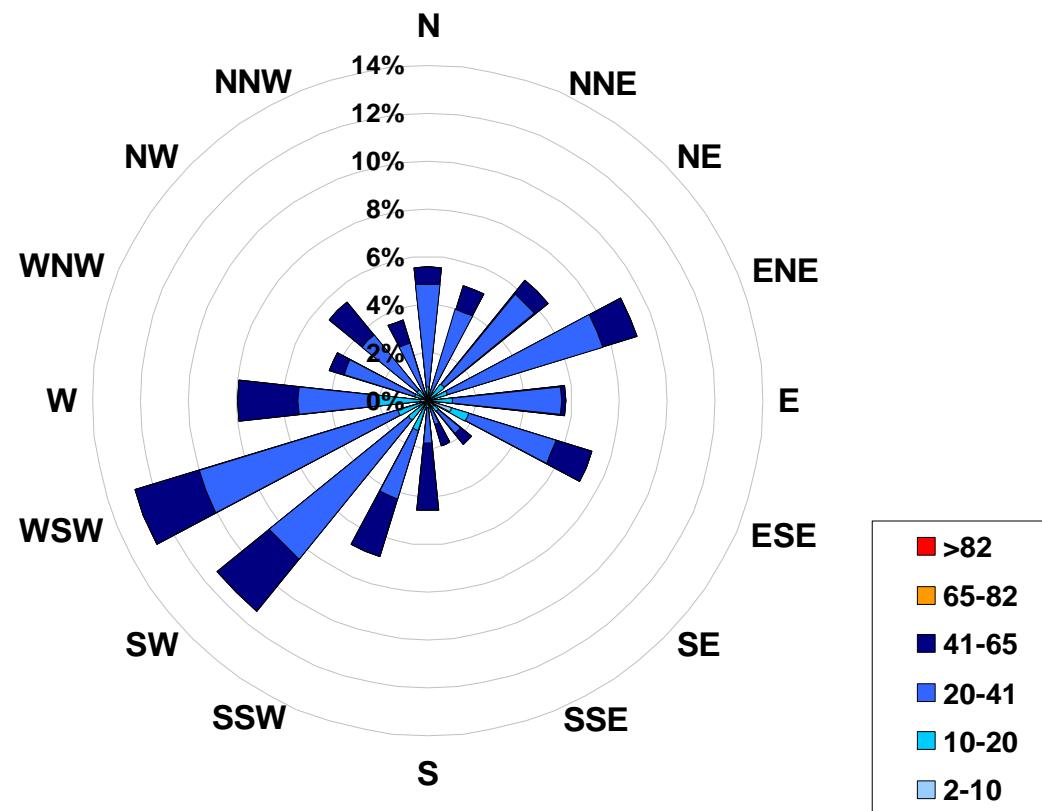


Figure 6. PAS - Crescent Heights Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	<	10	21
10	to	20	74
20	to	41	425
41	to	65	163
65	to	82	0
	>	82	0
Total Non-Zero Values			683



PAS - Crescent Heights - Ozone Eight-Hour Running Average Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2007 to May 1, 2007

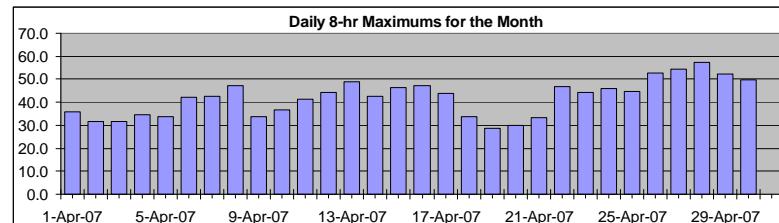
Objective Limit: Alberta Environment: 8-hr 65 ppb
Summary

Number of 8-hr Exceedances: 0

Maximum 8-hr Average: 57.4 ppb 28-Apr 16:00 17:00

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)



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 1:00	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-Apr-07	36	35	35	35	34	33	32	32	31	30	30	30	31	33	34	34	35	35	34	34	32	31	30	29	36.0	
2-Apr-07	28	27	26	26	27	26	26	26	25	24	24	23	23	23	23	24	25	25	27	28	29	30	31	32	31.7	
3-Apr-07	32	31	31	30	30	29	28	27	27	26	25	24	24	24	25	25	26	26	25	25	24	24	24	24	31.6	
4-Apr-07	23	23	25	26	26	24	22	20	19	19	18	19	21	24	27	30	32	34	34	34	34	34	33	31	34.5	
5-Apr-07	29	28	26	25	24	23	21	20	20	20	20	21	22	23	24	26	28	30	31	32	33	33	34	33	33.7	
6-Apr-07	33	31	30	29	27	24	23	22	22	24	26	28	31	35	38	40	41	42	42	41	40	37	35	33	42.1	
7-Apr-07	31	29	29	28	28	28	29	30	31	32	34	36	38	40	41	42	43	42	41	40	39	38	38	38	42.7	
8-Apr-07	37	36	35	36	36	34	32	30	28	29	30	32	33	36	39	43	45	47	47	47	43	39	36	31	47.2	
9-Apr-07	29	25	22	18	17	17	16	16	17	19	21	24	27	29	32	33	34	33	33	32	31	30	28	28	33.9	
10-Apr-07	28	27	25	24	22	20	19	17	17	18	20	22	24	27	29	32	34	36	36	37	37	36	35	34	36.8	
11-Apr-07	33	33	32	32	31	30	30	31	32	33	33	33	34	35	38	39	40	41	41	41	40	39	36	34	41.2	
12-Apr-07	31	27	25	23	22	21	20	20	21	24	26	29	30	34	37	40	42	44	44	44	41	38	34	31	44.5	
13-Apr-07	28	26	24	23	23	24	26	27	28	29	30	30	32	36	39	43	46	48	49	47	45	42	38	35	49.0	
14-Apr-07	31	28	25	23	23	23	22	23	24	26	26	27	29	31	34	38	40	41	42	42	41	38	35	34	42.4	
15-Apr-07	30	28	27	27	28	30	30	31	32	32	32	32	34	36	39	41	42	43	46	47	46	44	42	38	46.6	
16-Apr-07	34	30	26	23	20	17	14	14	14	17	22	26	30	36	42	47	47	47	47	47	46	45	43	47.3		
17-Apr-07	42	40	38	36	35	33	31	31	30	30	29	30	32	36	37	39	40	42	44	44	42	40	37	43.6		
18-Apr-07	34	30	27	26	24	21	19	17	15	14	14	15	16	19	20	24	27	29	29	29	28	28	27	26	33.8	
19-Apr-07	25	26	26	26	27	27	27	28	29	29	28	27	26	25	25	25	24	22	21	21	20	19	18	16	28.6	
20-Apr-07	15	14	14	14	14	14	15	15	15	16	16	16	16	17	18	20	21	23	25	26	28	29	30	30	29.9	
21-Apr-07	30	29	28	28	27	26	25	24	23	23	23	23	24	25	27	28	30	32	33	33	32	30	26	23	33.1	
22-Apr-07	18	14	11	7	4	3	3	3	5	9	13	16	21	26	31	36	40	42	45	46	47	45	43	39	46.9	
23-Apr-07	36	34	30	28	26	24	23	22	21	22	23	24	26	26	29	33	37	40	42	43	44	42	41	39	44.2	
24-Apr-07	38	35	30	25	21	17	13	10	12	14	18	23	27	32	37	41	45	46	46	45	43	42	40	39	45.9	
25-Apr-07	36	34	31	29	28	26	24	23	23	22	24	26	28	31	35	38	41	44	45	44	44	43	41	39	44.8	
26-Apr-07	36	34	33	33	30	28	25	N	N	N	N	N	N	N	N	N	N	N	53	52	52	50	48	46	52.8	
27-Apr-07	41	38	37	36	36	35	35	35	37	38	40	43	45	48	51	53	54	54	54	54	52	50	48	45	54.3	
28-Apr-07	42	41	38	36	35	36	36	37	39	41	45	48	51	53	55	57	57	57	56	56	54	52	50	48	57.4	
29-Apr-07	47	44	41	40	39	39	39	40	41	44	46	48	49	50	51	52	51	52	52	52	52	51	51	51	52.3	
30-Apr-07	50	48	45	42	40	38	37	36	36	36	36	37	37	38	39	41	42	42	43	44	43	43	42	42	49.6	

Hourly Max 49.6 48.0 45.1 42.2 40.3 39.2 39.1 39.9 41.4 43.6 46.0 48.1 50.9 53.1 55.2 56.8 57.4 57.1 56.4 55.7 53.9 52.0 50.7 51.0



PAS - Crescent Heights - Carbon Monoxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2007 to May 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: 0.7 ppm 4-Apr 7:00 8:00
Maximum 24-hr Value: 0.2 ppm 4-Apr

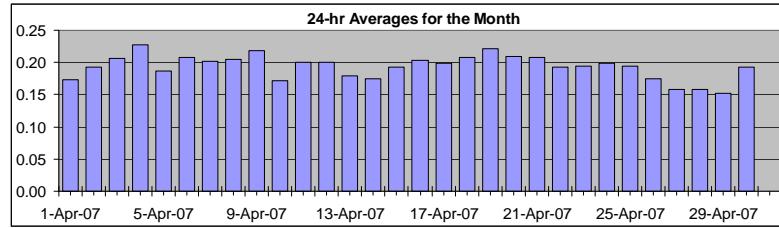
AIC Time:	33 hrs	Operational Time:	683 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.2 ppm	0.2 ppm

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	Daily Average	Daily Maximum	
Hour End 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 24:00				
1-Apr-07	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	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.17	0.20	
2-Apr-07		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.19	0.39	
3-Apr-07		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.21	0.26	
4-Apr-07		0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	A	0.1	0.2	0.1	0.23	0.68	
5-Apr-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	0.1	0.2	A	0.19	0.25	0.2	0.2	0.25	
6-Apr-07		0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.21	0.29	
7-Apr-07		0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	A	0.19	0.25	0.2	0.2	0.2	
8-Apr-07		0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.21	0.29	
9-Apr-07		0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.21	0.29	
10-Apr-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	A	0.21	0.29	
11-Apr-07		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	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.21	0.28	
12-Apr-07		0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.1	0.1	0.1	0.2	0.2	0.2	0.2	A	0.21	0.31	
13-Apr-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	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.18	0.22	
14-Apr-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	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	P	0.17	0.24	
15-Apr-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	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.19	0.28	
16-Apr-07		0.2	0.2	0.2	0.2	0.3	0.4	0.3	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.20	0.38	
17-Apr-07		0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.3	0.2	0.2	0.2	0.2	A	0.1	0.2	0.2	0.2	0.2	0.2	0.2	A	0.20	0.31	
18-Apr-07		0.2	0.2	0.2	0.2	0.2	0.2	A	0.3	0.3	0.3	0.2	0.2	0.2	0.2	C	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.21	0.34	
19-Apr-07		0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.22	0.27	
20-Apr-07		0.2	0.2	0.2	A	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.21	0.27	
21-Apr-07		0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.21	0.32	
22-Apr-07		0.3	0.2	A	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	0.2	0.2	A	0.19	0.27	
23-Apr-07		0.2	A	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	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.19	0.26	
24-Apr-07		A	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	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.20	0.35	
25-Apr-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	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.19	0.25	
26-Apr-07		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	C	C	A	0.2	0.2	0.2	0.2	0.2	0.2	A	0.17	0.24
27-Apr-07		0.2	0.1	A	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.16	0.20	
28-Apr-07		0.2	A	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.16	0.20	
29-Apr-07		A	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.15	0.19	
30-Apr-07		0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.19	0.24	

HOURLY AVERAGE TABLE

Carbon Monoxide (CO)



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

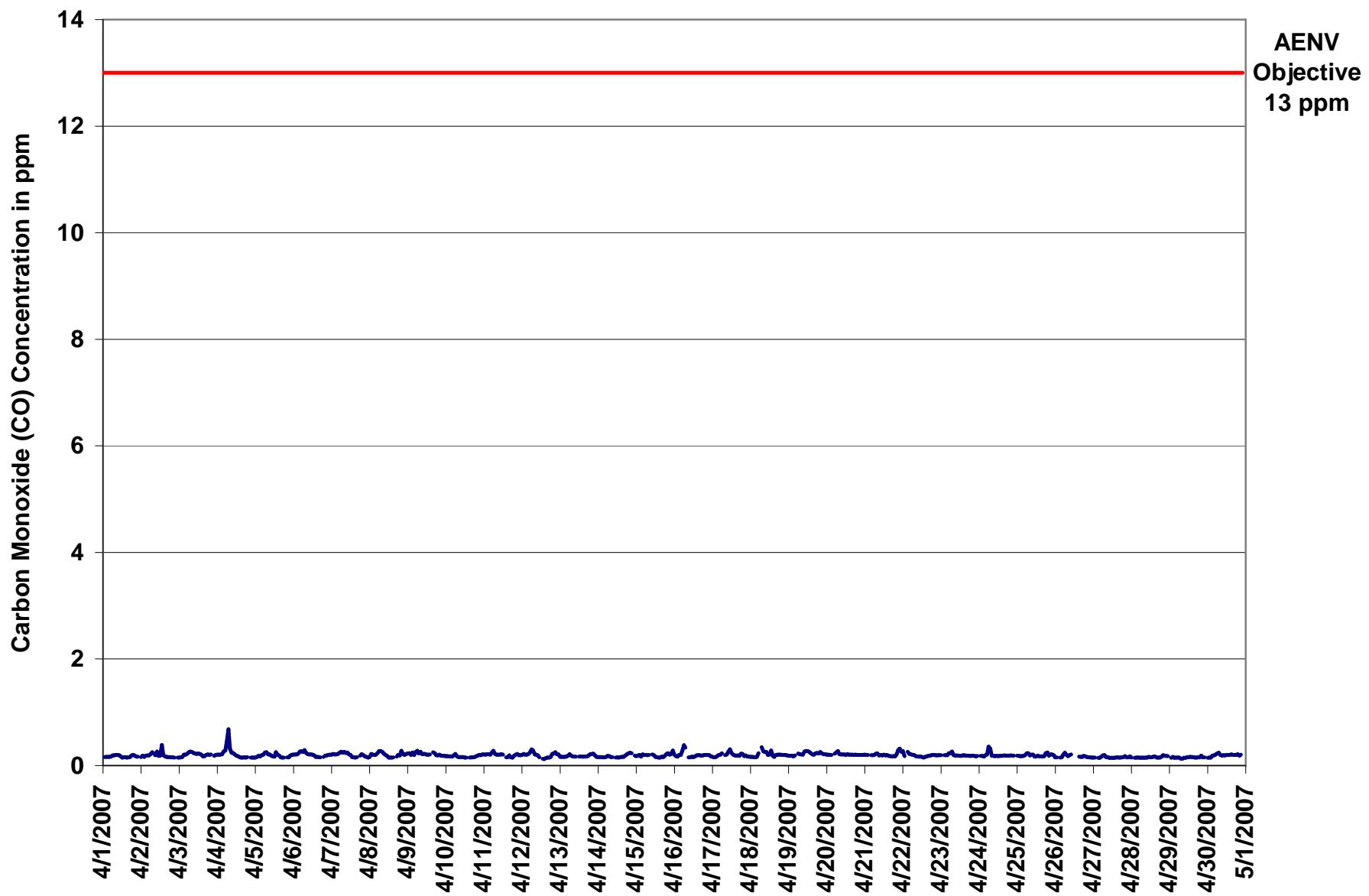


Figure 7. PAS - Crescent Heights Carbon Monoxide 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

Monitoring Dates: April 1, 2007 to May 1, 2007

Summary

Maximum 1-hr Value:	1.7	ppm	2-Apr	13:00	14:00
Maximum 24-hr Value:	0.3	ppm	18-Apr		

AIC Time:	33 hrs	Operational Time:	683 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%						
Percentile	99 0.7	95 0.5	75 0.3	50 0.2	25 0.2	5 0.2	1 0.1	Average 0.3 ppm	Median 0.2 ppm

Day Mountain Standard Time

	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	24-hour Average	Daily Maximum
1-Apr-07	A 1:00	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	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A 0.20	0.25
2-Apr-07	0.2 2:00	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.5	0.3	0.6	0.2	0.3	1.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A 0.2	0.31	1.71
3-Apr-07	0.2 3:00	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.4	0.3	0.4	0.3	0.4	0.3	0.4	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.2	C 0.27	0.39
4-Apr-07	0.3 4:00	0.2	0.2	0.2	0.3	0.4	0.4	0.7	0.9	0.6	0.3	0.4	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	M 0.30	0.91
5-Apr-07	0.2 5:00	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.3	0.3	0.4	0.2	0.3	0.3	0.8	0.3	0.3	0.2	0.2	0.2	A 0.2	0.2	0.2	0.2	0.2	P 0.27	0.85
6-Apr-07	0.2 6:00	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.4	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	X 0.24	0.36	
7-Apr-07	0.2 7:00	0.2	0.3	0.2	0.2	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	A 0.2	0.3	0.3	0.2	0.2	C 0.26	0.46	
8-Apr-07	0.2 8:00	0.2	0.3	0.3	0.2	0.2	0.3	0.6	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A 0.2	0.2	0.3	0.4	0.3	A 0.27	0.58	
9-Apr-07	0.7 9:00	0.3	0.3	0.2	0.5	0.2	0.6	0.6	0.3	0.4	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	A 0.3	0.3	0.3	0.2	0.3	A 0.32	0.71		
10-Apr-07	0.2 10:00	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	A 0.2	0.2	0.2	0.2	0.2	M 0.21	0.45	
11-Apr-07	0.3 11:00	0.3	0.3	0.4	0.5	0.2	0.6	0.7	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.4	0.2	0.2	0.2	0.2	A 0.30	0.69
12-Apr-07	0.2 12:00	0.5	0.3	0.2	0.3	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.3	0.2	0.3	0.2	0.3	0.3	0.3	A 0.26	0.45
13-Apr-07	0.2 13:00	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	X 0.24	0.49
14-Apr-07	0.2 14:00	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	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	P 0.22	0.30
15-Apr-07	0.2 15:00	0.2	0.3	0.2	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.6	0.3	0.4	0.4	A 0.28	0.60
16-Apr-07	0.3 16:00	0.2	0.2	0.3	0.3	0.5	0.5	0.4	A 0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	C 0.25	0.49	
17-Apr-07	0.2 17:00	0.2	0.2	0.2	0.2	0.2	0.3	A 0.2	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2	X 0.26	0.43
18-Apr-07	0.2 18:00	0.2	0.2	0.2	0.2	0.4	A 0.6	0.4	0.3	0.6	0.4	0.5	0.8	0.3	0.2	0.4	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	A 0.32	0.84
19-Apr-07	0.2 19:00	0.2	0.3	0.2	0.2	0.2	A 0.3	0.3	0.3	0.3	0.9	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	A 0.32	0.89
20-Apr-07	0.3 20:00	0.2	0.2	0.2	0.2	A 0.4	0.4	0.9	0.2	0.3	0.3	0.3	0.3	0.2	0.4	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	A 0.31	0.91
21-Apr-07	0.4 21:00	0.2	0.2	A 0.2	0.2	0.3	0.4	0.5	0.2	0.3	0.3	0.5	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.4	0.5	0.5	0.4	0.4	A 0.32	0.51
22-Apr-07	0.5 22:00	0.2	A 0.2	0.7	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	X 0.25	0.66
23-Apr-07	0.2 23:00	A 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	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	C 0.25	0.43
24-Apr-07	A 0.2	0.2	0.2	0.2	0.3	0.5	0.3	0.2	0.5	0.4	0.2	0.2	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	A 0.26	0.68
25-Apr-07	0.2 0.2	0.2	0.2	0.2	0.3	0.5	0.3	0.2	0.5	0.4	0.2	0.2	0.4	0.2	0.3	0.2	0.2	0.4	0.5	0.2	0.3	0.3	0.3	0.3	0.3	A 0.29	0.51
26-Apr-07	0.2 0.2	A 0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.3	C 0.2	C 0.2	C 0.2	A 0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	C 0.23	0.35
27-Apr-07	0.2 0.2	A 0.1	0.1	0.1	0.3	0.3	0.3	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	A 0.21	0.35
28-Apr-07	0.2 0.2	A 0.1	0.2	0.1	0.3	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A 0.20	0.28
29-Apr-07	A 0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A 0.18	0.20
30-Apr-07	0.1 0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	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	A 0.24	0.35

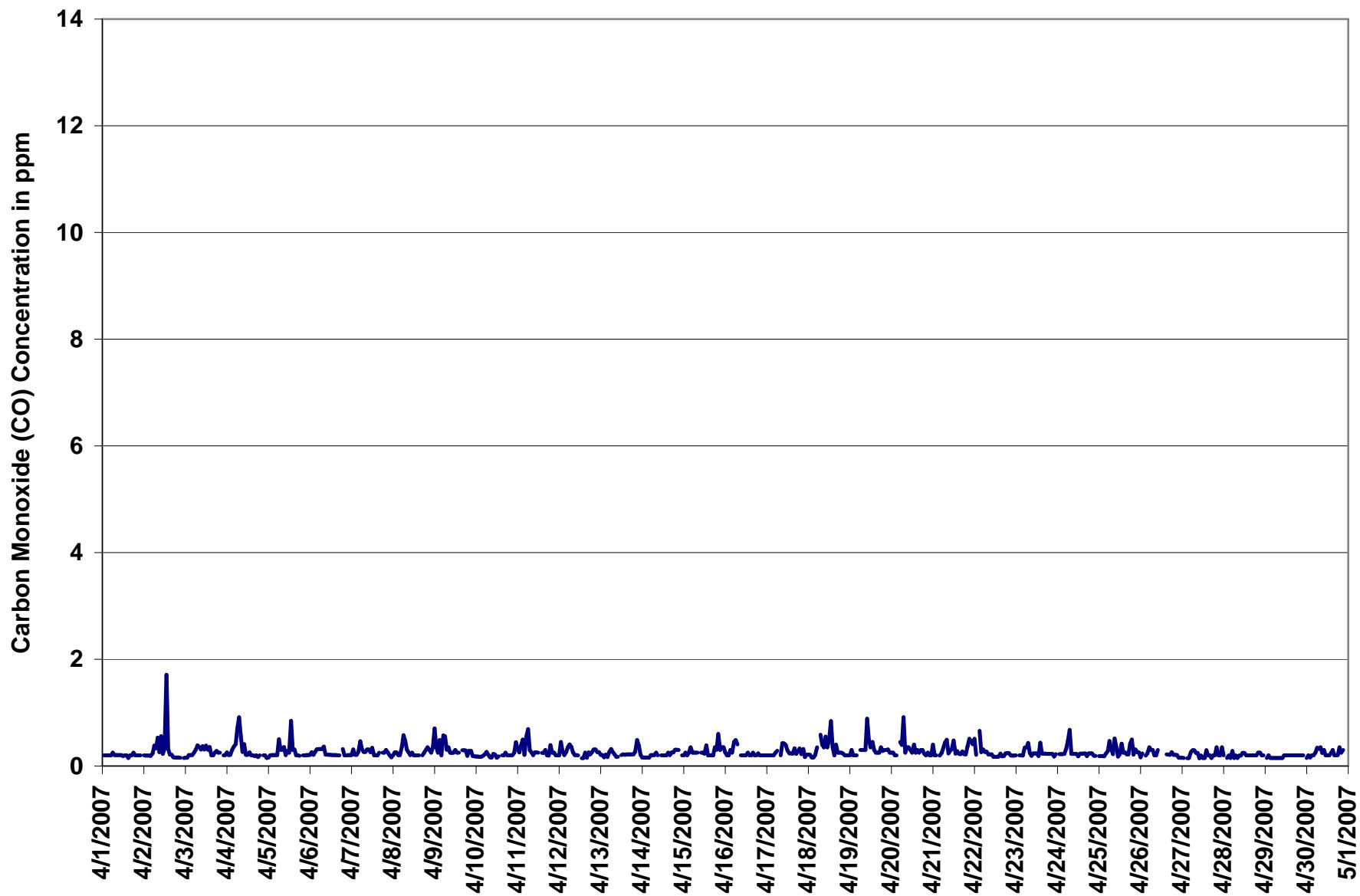
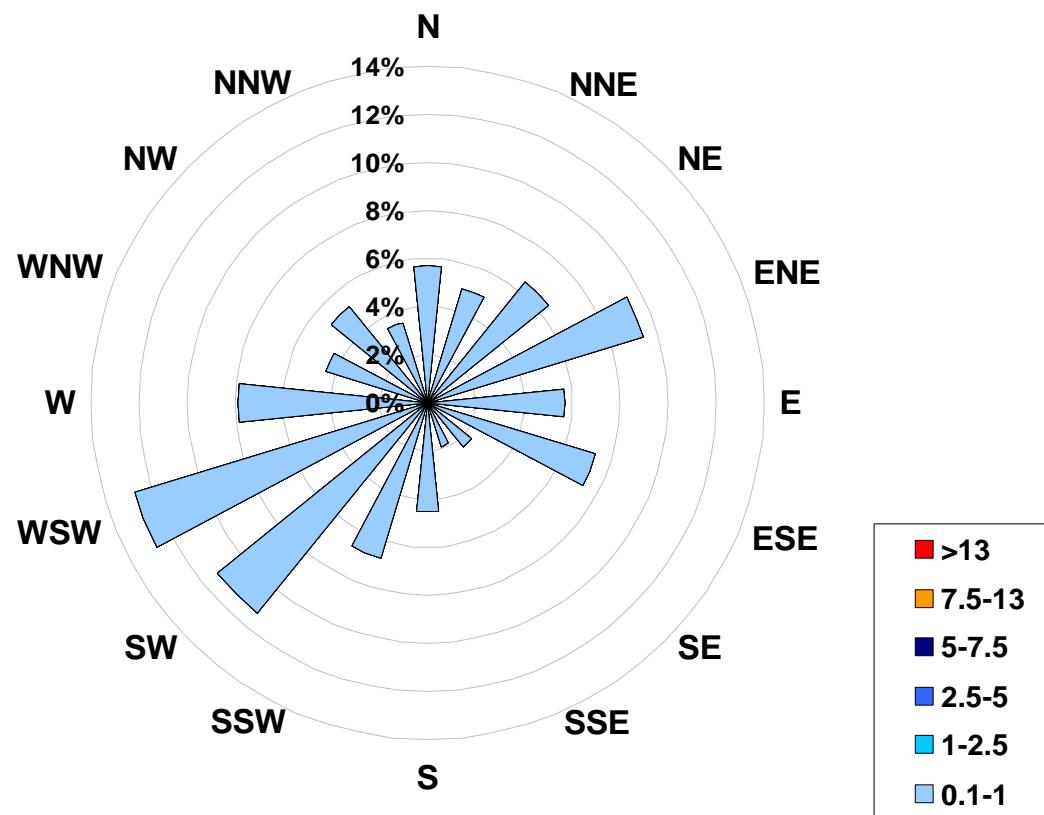


Figure 8. PAS - Crescent Heights Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of CO in ppm			Frequency (hrs)
Range			
0.1	<	1	683
1	to	2.5	0
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
> 13			0
Total Non-Zero Values			683



PAS - Crescent Heights - Carbon Monoxide Eight-Hour Running Average Summary

Station: Crescent Heights
Station Owner: PAS

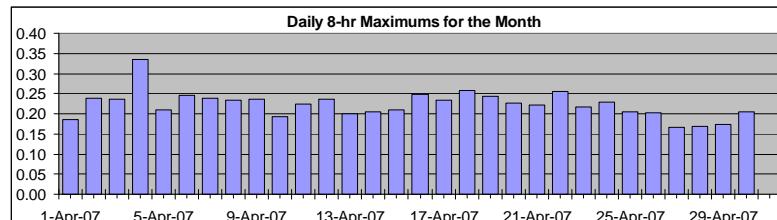
Monitoring Dates: April 1, 2007 to May 1, 2007

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

Number of 8-hr Exceedances: 0
Maximum 8-hr Average: 0.3 ppm 4-Apr 10:00 11:00

EIGHT HOUR RUNNING AVERAGE TABLE

Carbon Monoxide (CO)



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 1:00	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	Daily Maximum	
1-Apr-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	0.2	0.2	0.19	
2-Apr-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	0.2	0.2	0.24	
3-Apr-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	0.2	0.2	0.24	
4-Apr-07	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.33	
5-Apr-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	0.2	0.2	0.21	
6-Apr-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	0.2	0.2	0.25	
7-Apr-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	0.2	0.2	0.24	
8-Apr-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	0.2	0.2	0.23	
9-Apr-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	0.2	0.2	0.24	
10-Apr-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	0.2	0.2	0.19	
11-Apr-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	0.2	0.2	0.22	
12-Apr-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	0.2	0.2	0.24	
13-Apr-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	0.2	0.2	0.20	
14-Apr-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	0.2	0.2	0.21	
15-Apr-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	0.2	0.2	0.21	
16-Apr-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	0.2	0.2	0.25	
17-Apr-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	0.2	0.2	0.23	
18-Apr-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26	
19-Apr-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	0.2	0.2	0.24	
20-Apr-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	0.2	0.2	0.23	
21-Apr-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	0.2	0.2	0.22	
22-Apr-07	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26	
23-Apr-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	0.2	0.2	0.22	
24-Apr-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	0.2	0.2	0.23	
25-Apr-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	0.2	0.2	0.20	
26-Apr-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	N	N	N	N	N	N	N	N	N	0.2	0.2	0.20
27-Apr-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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.17	
28-Apr-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17	
29-Apr-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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17	
30-Apr-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	0.2	0.2	0.21	

Hourly Max 0.23 0.23 0.24 0.25 0.26 0.24 0.25 0.31 0.33 0.33 0.33 0.33 0.32 0.31 0.28 0.24 0.24 0.24 0.24 0.23 0.23 0.23 0.23 0.23 0.23



PAS - Crescent Heights - Total Hydrocarbons Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2007 to May 1, 2007

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

Maximum 1-hr Average:	2.7	ppm	22-Apr	3:00 4:00
Maximum 24-hr Value:	2.1	ppm	4-Apr	

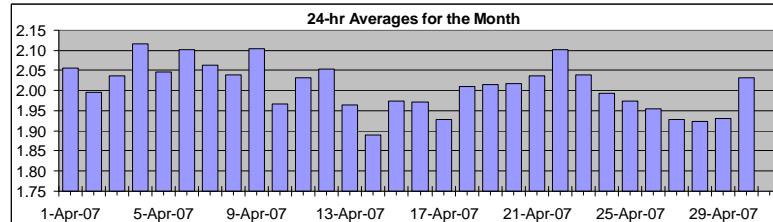
AIC Time:	33 hrs	Operational Time:	683 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.4	2.2	2.1	2.0	1.9	1.9	1.8	2.0 ppm	2.0 ppm

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start 1:00	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-Apr-07	A	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	A	2.06	2.13
2-Apr-07	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	A	2.00	2.11	
3-Apr-07	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.04	2.26	
4-Apr-07	2.2	2.2	2.2	2.4	2.3	2.2	2.3	2.4	2.5	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.0	A	2.0	2.0	2.0		2.12	2.49
5-Apr-07	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.1	2.1	2.1	2.1	2.05	2.12	
6-Apr-07	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.1	2.1	2.1	2.1	2.1	2.10	2.28	
7-Apr-07	2.1	2.1	2.1	2.3	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.0	A	2.0	2.0	2.0	2.0	2.0	2.06	2.30	
8-Apr-07	2.0	2.0	2.0	2.1	2.1	2.1	2.3	2.2	2.2	2.1	2.0	2.0	1.9	1.9	2.0	1.9	1.9	A	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.04	2.26	
9-Apr-07	2.6	2.5	2.3	2.4	2.2	2.3	2.4	2.3	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.10	2.56	
10-Apr-07	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	A	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	1.97	2.10		
11-Apr-07	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.03	2.12		
12-Apr-07	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	A	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.05	2.23		
13-Apr-07	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.0	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.96	2.05		
14-Apr-07	1.9	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	P	1.89	1.96	
15-Apr-07	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	1.9	A	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.98	2.19	
16-Apr-07	2.3	2.2	2.1	2.1	2.1	2.2	2.2	2.1	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.9	1.97	2.25	
17-Apr-07	1.9	1.9	1.9	1.9	1.9	1.9	2.0	A	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	2.0	1.93	1.97		
18-Apr-07	2.0	2.0	2.0	2.0	2.0	2.1	A	2.3	2.3	2.2	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.01	2.26		
19-Apr-07	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.02	2.08		
20-Apr-07	2.0	2.0	2.0	2.0	A	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.02	2.05	
21-Apr-07	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.2	2.3	2.04	2.25	
22-Apr-07	2.3	2.1	A	2.7	2.6	2.5	2.2	2.2	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.10	2.67	
23-Apr-07	2.1	A	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.04	2.18	
24-Apr-07	A	2.2	2.2	2.1	2.1	2.1	2.2	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	A	1.99	2.19
25-Apr-07	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.97	2.02	
26-Apr-07	2.0	2.0	A	1.9	2.0	2.0	2.0	2.2	2.0	2.0	C	C	C	A	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.96	2.17
27-Apr-07	1.9	1.9	A	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.93	1.97	
28-Apr-07	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.1	1.92	2.10	
29-Apr-07	A	2.0	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	A	1.93	2.11		
30-Apr-07	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	A	2.03	2.10		

Hourly Avg	2.05	2.05	2.05	2.09	2.08	2.09	2.08	2.05	2.02	2.00	1.98	1.96	1.95	1.94	1.94	1.94	1.94	1.95	1.97	1.99	2.00	2.01	2.04
Hourly Max	2.56	2.48	2.33	2.67	2.63	2.54	2.38	2.36	2.49	2.22	2.14	2.06	2.08	2.05	2.03	2.06	2.05	2.13	2.10	2.18	2.25	2.21	2.26

HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)



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

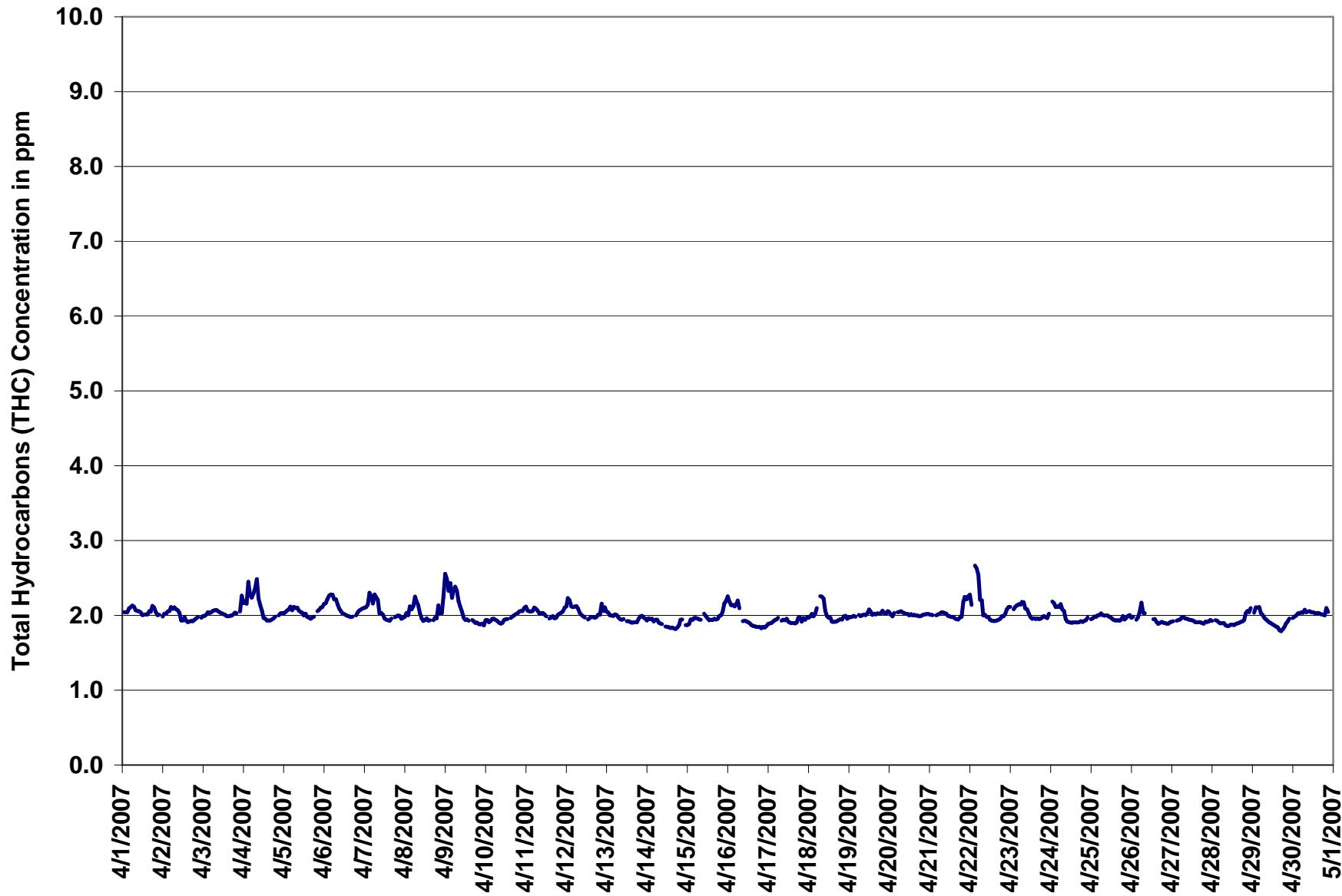


Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

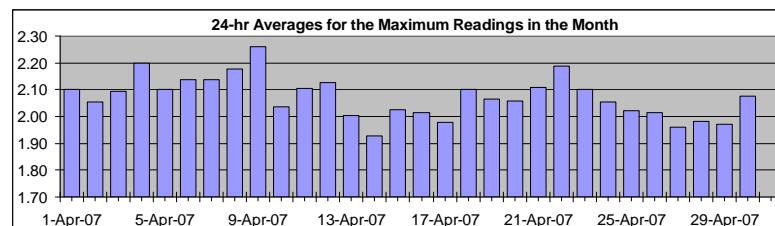
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Hydrocarbons (THC)

Monitoring Dates: April 1, 2007 to May 1, 2007

Summary

Maximum 1-hr Value:	3.4	ppm	8-Apr	6:00 7:00
Maximum 24-hr Value:	2.3	ppm	9-Apr	



AIC Time:	33 hrs	Operational Time:	683 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%
Percentile	99 95 75 50 25 5 1	Average	Median
	2.7 2.4 2.1 2.0 2.0 1.9 1.9	2.1 ppm	2.0 ppm

Status Flag Characters

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

Day Mountain Standard Time

	Hour Start Hour End	0:00	1:00	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-Apr-07	A	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.3	2.2	2.1	2.1	2.1	2.0	A	2.10	2.31
2-Apr-07	2.0	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	2.4	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	A	2.05	2.42
3-Apr-07	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	A	2.09	2.34	
4-Apr-07	2.3	2.4	2.3	2.6	2.4	2.3	2.4	2.6	2.7	2.3	2.2	2.2	2.2	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	A	2.20	2.69	
5-Apr-07	2.0	2.1	2.1	2.1	2.2	2.1	2.2	2.1	2.2	2.2	2.1	2.1	2.1	2.0	2.3	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	A	2.10	2.25	
6-Apr-07	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	A	2.14	2.32	
7-Apr-07	2.1	2.2	2.3	2.4	2.5	2.3	2.4	2.3	2.4	2.1	2.1	2.1	2.1	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.1	2.1	2.1	A	2.14	2.47	
8-Apr-07	2.0	2.1	2.0	2.3	2.3	2.2	3.4	2.4	2.2	2.1	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.2	2.2	2.3	A	2.18	3.42	
9-Apr-07	3.0	2.7	2.7	2.9	2.6	2.6	2.9	2.5	2.4	2.3	2.1	2.1	2.0	2.0	2.0	2.0	A	2.0	2.0	1.9	1.9	1.9	1.9	1.9	A	2.26	2.99
10-Apr-07	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	A	2.0	2.0	2.1	2.2	2.1	2.1	2.1	A	2.04	2.31	
11-Apr-07	2.2	2.1	2.2	2.1	2.3	2.4	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	A	2.0	2.0	2.1	2.2	2.1	2.1	2.1	2.1	A	2.11	2.36	
12-Apr-07	2.2	2.3	2.3	2.2	2.1	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	A	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	A	2.13	2.60	
13-Apr-07	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	1.9	1.9	1.9	1.9	2.0	2.1	2.1	2.0	2.0	2.1	A	2.00	2.13
14-Apr-07	2.0	2.0	2.0	2.0	1.9	2.0	2.0	1.9	1.9	1.9	1.9	A	1.9	1.9	1.8	1.8	1.8	1.8	1.9	2.0	2.0	2.0	2.0	P	1.93	2.02	
15-Apr-07	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	A	2.02	2.32	
16-Apr-07	2.3	2.3	2.2	2.2	2.2	2.3	2.1	A	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.02	2.33	
17-Apr-07	1.9	1.9	1.9	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.1	2.0	1.9	1.9	1.9	1.9	1.9	2.1	2.1	1.9	2.0	2.0	A	1.98	2.14	
18-Apr-07	2.0	2.1	2.1	2.0	2.1	2.2	A	2.4	2.3	2.4	2.2	2.2	2.1	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	A	2.10	2.41	
19-Apr-07	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.3	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0	A	2.06	2.28	
20-Apr-07	2.1	2.1	2.0	2.1	A	2.1	2.1	2.2	2.1	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.06	2.21	
21-Apr-07	2.0	2.0	2.0	A	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.11	2.65	
22-Apr-07	2.5	2.3	A	3.1	2.8	2.7	2.3	2.4	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.19	3.11	
23-Apr-07	2.2	A	2.1	2.2	2.2	2.3	2.2	2.3	2.2	2.1	2.1	2.1	2.0	2.0	2.2	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	A	2.10	2.31	
24-Apr-07	A	2.4	2.3	2.2	2.2	2.2	2.3	2.2	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	2.0	2.0	2.1	A	2.05	2.42	
25-Apr-07	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	A	2.02	2.09	
26-Apr-07	2.0	2.1	A	2.0	2.0	2.1	2.3	2.1	2.1	C	C	C	A	2.0	2.0	2.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.02	2.26	
27-Apr-07	1.9	2.0	A	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	1.9	1.9	1.9	1.9	1.9	1.9	A	1.96	2.05	
28-Apr-07	2.0	A	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.4	2.2	2.1	2.2	A	1.98	2.37	
29-Apr-07	A	2.1	2.2	2.1	2.2	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.9	1.9	1.9	1.9	A	1.97	2.25	
30-Apr-07	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.3	2.1	2.1	A	2.07	2.26	

Hourly Avg 2.12 2.12 2.12 2.18 2.15 2.16 2.21 2.17 2.12 2.07 2.05 2.02 2.00 2.02 1.98 1.98 1.97 1.97 2.00 2.02 2.06 2.08 2.08 2.10

Hourly Max 2.99 2.75 2.69 3.11 2.76 2.69 3.42 2.59 2.69 2.39 2.24 2.18 2.18 2.42 2.20 2.23 2.09 2.15 2.31 2.16 2.65 2.60 2.32 2.47

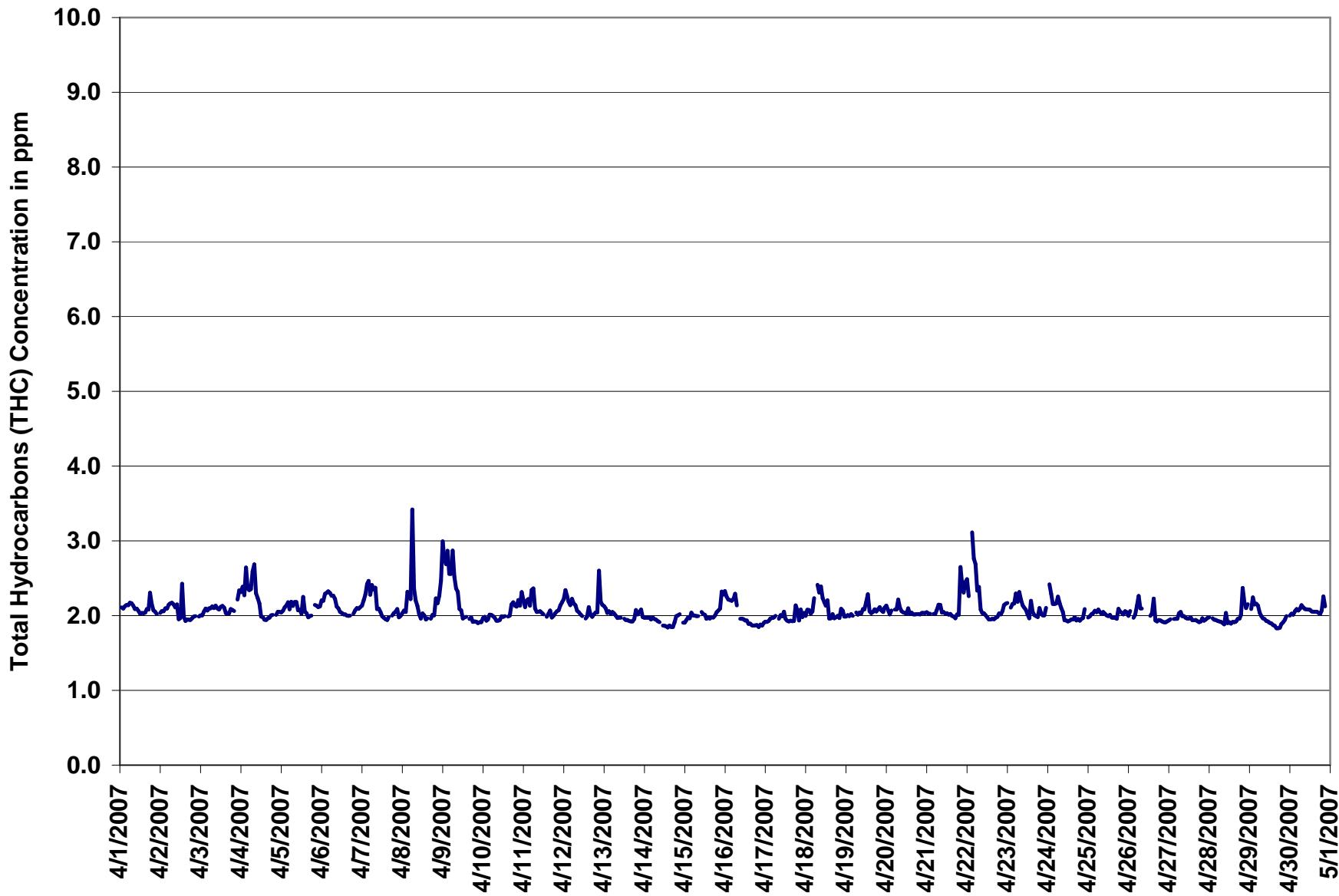
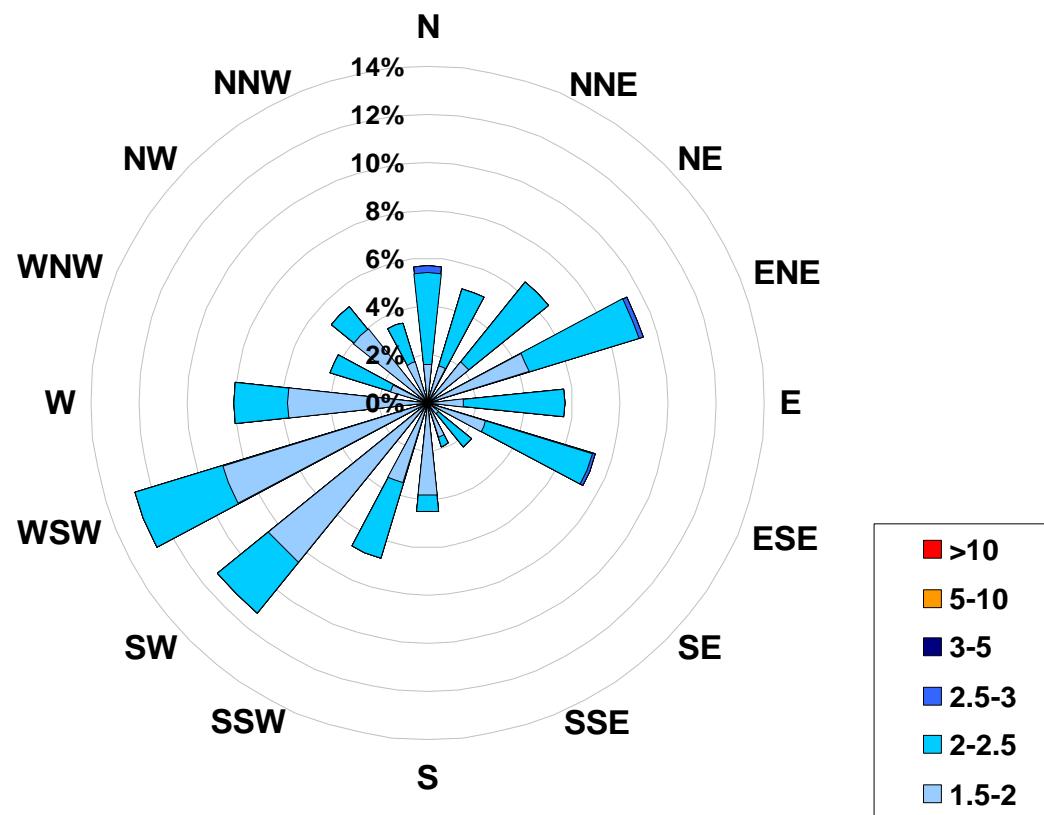


Figure 10. PAS - Crescent Heights Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of THC in ppm			Frequency (hrs)
Range			
1.5	<	2	367
2	to	2.5	312
2.5	to	3	4
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			683



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

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2007 to May 1, 2007

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	12.8 $\mu\text{g}/\text{m}^3$
Maximum 24-hr Value:	6.6 $\mu\text{g}/\text{m}^3$
	4-Apr 7:00 8:00
	3-Apr

AIC Time:	0 hrs	Operational Time:	714 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	99.9%
Percentile	99 95 75 50 25 5 1	Average / Median	Geomean
	9.8 7.2 4.7 3.3 1.8 0.1 0.0	3.4 3 $\mu\text{g}/\text{m}^3$	3.1 $\mu\text{g}/\text{m}^3$

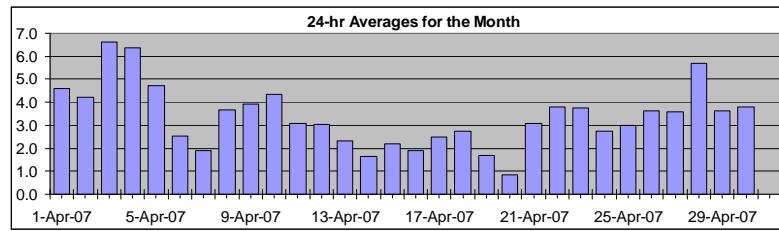
Day Mountain Standard Time

	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	25:00	26:00	27:00	28:00	29:00	30:00	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	25:00	26:00	27:00	28:00	29:00	30:00		
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	24:00	25:00	26:00	27:00	28:00	29:00	30:00			
1-Apr-07	7	7	5	5	4	3	3	2	3	3	2	4	4	4	5	6	7	7	9	6	5	5	5	3	2	4.6	9.0						
2-Apr-07	3	4	4	5	5	5	4	3	3	4	3	2	3	4	5	6	5	5	5	5	6	5	5	5	5	4.2	5.7						
3-Apr-07	6	6	5	5	6	6	6	6	7	7	7	7	7	6	5	6	6	7	8	9	9	8	8	8	7	6.6	8.8						
4-Apr-07	8	8	7	7	7	8	9	13	9	8	5	4	4	4	6	5	5	6	5	6	5	5	5	4	5	6.4	12.8						
5-Apr-07	6	6	6	4	5	5	5	5	5	6	5	5	5	5	6	5	5	3	4	3	5	5	4	4	4	4.7	6.1						
6-Apr-07	4	4	3	3	2	3	4	3	3	2	2	2	2	2	2	3	2	2	1	1	3	4	2	2	2	2.5	3.8						
7-Apr-07	2	2	2	2	2	2	3	2	2	2	1	1	2	1	1	2	3	2	2	2	3	1	2	2	2	1.9	3.3						
8-Apr-07	2	4	3	3	2	3	3	3	4	3	3	1	4	5	4	4	4	4	3	4	3	8	6	4	5	3.7	8.2						
9-Apr-07	4	3	4	4	3	3	4	3	5	5	6	5	5	5	8	6	3	3	2	3	4	2	2	3	3.9	7.5							
10-Apr-07	2	1	0	0	0	0	2	2	3	7	7	7	7	9	8	8	7	6	5	6	5	4	5	4	4.4	8.8							
11-Apr-07	4	4	3	3	4	4	3	3	2	3	3	2	3	3	2	3	2	1	3	4	4	4	4	4	4	3.1	4.1						
12-Apr-07	4	3	3	2	3	4	5	5	4	4	4	3	2	0	0	0	2	0	5	5	4	4	4	4	3	3.1	5.0						
13-Apr-07	1	1	1	2	2	3	3	3	3	4	4	2	1	2	2	1	1	3	2	4	4	4	3	2	2	2.3	4.0						
14-Apr-07	1	1	1	1	1	2	2	1	1	1	0	0	0	0	0	1	1	2	2	4	6	5	5	3	3	1.6	6.4						
15-Apr-07	1	2	4	1	3	2	3	3	2	3	2	0	0	0	0	1	2	1	2	4	5	3	3	4	2.2	5.2							
16-Apr-07	4	2	2	2	2	4	5	5	1	0	1	1	0	1	1	0	1	1	2	3	3	3	2	1	1.9	4.9							
17-Apr-07	2	3	3	3	3	4	5	5	4	5	6	6	2	1	0	0	1	1	1	1	0	1	2	3	2.5	6.2							
18-Apr-07	2	1	1	1	3	3	6	6	5	2	0	2	1	2	3	3	4	5	5	3	2	4	1	1	2.8	5.7							
19-Apr-07	2	3	6	4	3	5	2	2	1	1	2	2	1	2	0	0	0	2	0	1	2	0	0	1	1.7	6.0							
20-Apr-07	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	2	2	1	2	2	2	1	1	0.8	2.2							
21-Apr-07	1	2	3	2	2	2	2	2	1	2	2	3	4	5	4	4	2	4	5	4	6	6	4	3.1	6.4								
22-Apr-07	5	3	5	5	5	5	5	3	3	2	2	0	1	2	3	3	4	5	6	7	5	4	4	3.8	6.5								
23-Apr-07	5	4	4	3	4	5	5	5	3	5	3	2	2	2	5	5	5	3	3	4	4	3	2	3.8	5.1								
24-Apr-07	2	1	3	2	3	3	5	4	3	1	1	2	2	0	0	3	4	3	3	5	4	4	4	2.7	5.3								
25-Apr-07	5	4	3	3	3	3	5	4	4	1	0	1	2	5	1	1	1	2	4	5	4	4	4	3	3.0	4.9							
26-Apr-07	0	0	0	3	1	2	6	1	4	5	2	2	2	2	C	C	C	C	C	12	11	7	5	4	3.6	12.1							
27-Apr-07	4	4	4	3	4	4	5	4	2	2	2	1	2	2	2	3	5	5	4	5	5	5	5	3.6	5.4								
28-Apr-07	4	3	5	6	8	11	10	9	8	10	10	8	5	5	4	4	3	1	3	3	3	3	3	5.7	10.9								
29-Apr-07	3	2	3	1	1	1	1	0	0	0	1	2	3	4	5	4	5	5	9	9	10	7	6	5	3.6	9.6							
30-Apr-07	4	3	3	3	3	3	5	5	2	3	4	4	4	4	4	4	5	5	3	4	5	4	3	3.8	5.3								

Hourly Avg	3.2	3.0	3.2	3.0	3.1	3.6	4.2	3.8	3.2	3.4	3.2	2.8	2.6	2.8	3.0	3.2	3.3	3.2	3.7	4.3	4.7	4.1	3.5	3.4	
Hourly Max	8.1	7.9	7.0	6.7	8.2	10.9	9.9	12.8	8.9	9.9	9.8	9.8	7.7	8.8	8.4	7.6	7.4	6.9	9.0	12.1	10.9	8.3	7.7	7.5	

HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})



Status Flag Characters

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

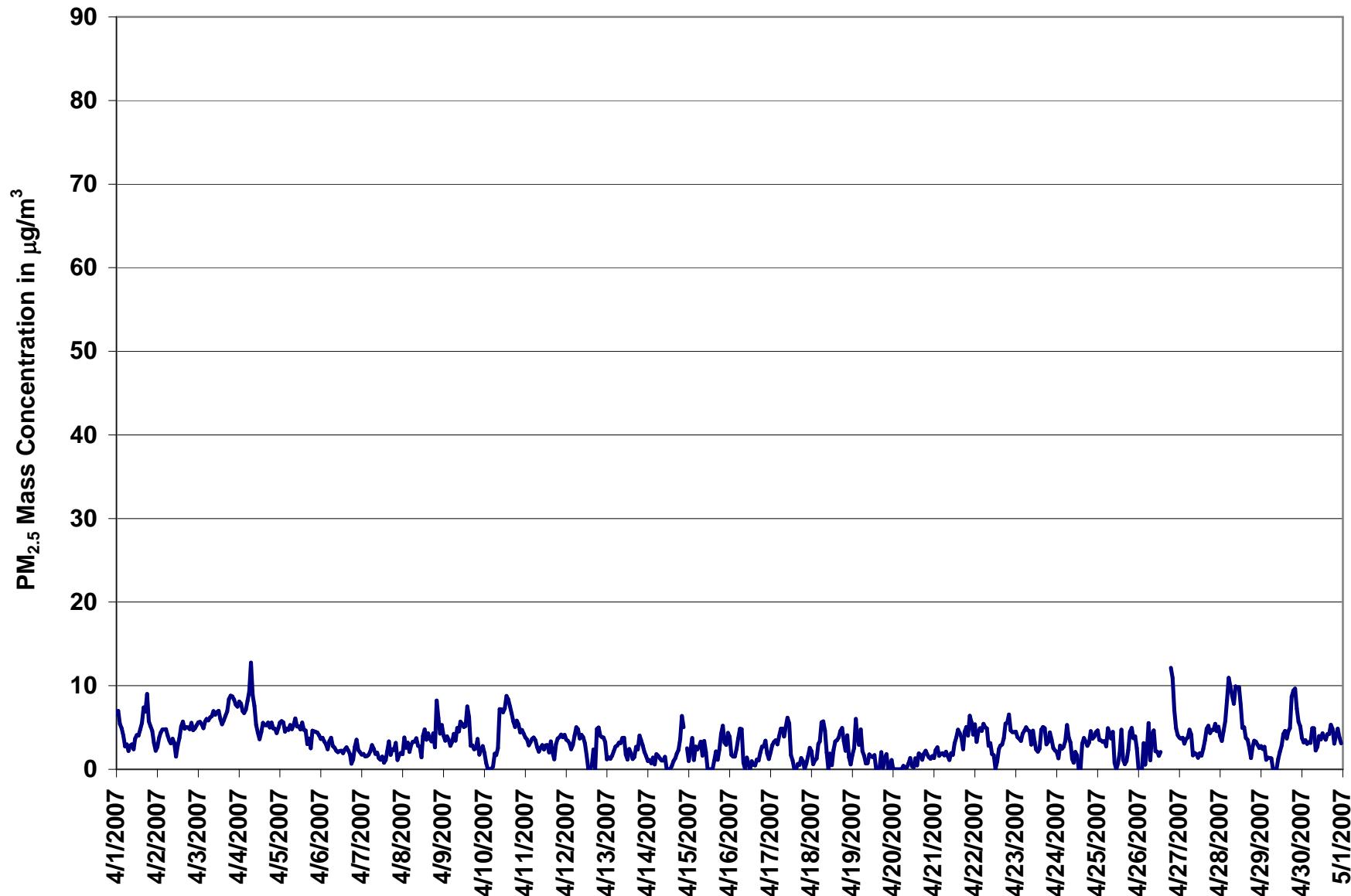


Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: April 1, 2007 to May 1, 2007

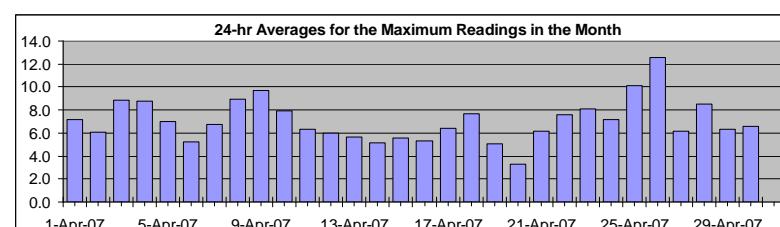
Summary

Maximum 1-hr Average:	22.2	µg/m ³	26-Apr	19:00 20:00
Maximum 24-hr Value:	12.6	µg/m ³	26-Apr	

AIC Time:	0 hrs	Operational Time:	714 hrs							
Calibration Time:	5 hrs	AMD Operational Uptime:	99.9%							
Percentile	99 17.4	95 12.9	75 8.4	50 6.6	25 4.9	5 3.0	1 1.8	Average / Median 7.0	7 µg/m ³	Geomean 6.8 µg/m ³

Day Mountain Standard Time

	Hour Start 1:00	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-Apr-07	9	9	7	7	8	4	5	4	7	5	4	5	6	6	6	7	15	9	17	9	7	6	5	4	7.2	17.0	
2-Apr-07	5	6	6	8	7	7	6	5	5	5	5	5	3	5	6	7	7	6	7	7	7	7	7	7	6.1	7.5	
3-Apr-07	8	7	7	7	8	8	8	9	9	10	9	9	9	9	9	7	8	8	10	10	12	11	11	10	9	8.8	11.9
4-Apr-07	10	10	9	9	9	11	11	16	13	12	8	8	6	7	8	7	7	8	8	7	7	7	8	6	7	8.8	16.0
5-Apr-07	8	8	7	7	7	7	8	6	7	8	8	7	8	8	8	7	5	6	5	7	7	7	6	7	6	7.0	8.5
6-Apr-07	5	5	5	6	5	5	8	9	5	5	3	4	6	4	4	5	6	4	4	4	5	8	5	4	5	5.2	8.9
7-Apr-07	5	4	4	4	4	4	5	6	4	5	6	7	4	4	4	4	13	12	14	12	13	14	4	5	4	6.7	13.6
8-Apr-07	5	7	5	5	5	5	5	5	7	5	5	5	12	12	12	12	14	13	12	12	13	20	12	8	8	8.9	20.2
9-Apr-07	7	6	7	5	5	7	7	7	8	7	10	13	13	12	14	17	11	12	14	10	11	13	10	8	9.7	17.5	
10-Apr-07	7	10	2	6	5	2	5	5	7	9	10	9	13	12	11	10	9	9	7	8	8	10	10	8	7.9	12.8	
11-Apr-07	10	7	6	5	5	6	7	6	5	4	7	4	5	6	4	13	9	3	9	6	5	6	6	6	6.3	13.2	
12-Apr-07	5	5	5	5	4	7	8	8	7	7	6	6	4	3	4	4	7	4	11	9	8	5	6	6	6.0	10.6	
13-Apr-07	3	4	4	4	4	4	5	6	6	7	7	7	6	6	6	5	5	8	6	8	7	7	8	5	5.7	8.3	
14-Apr-07	3	5	2	5	2	6	5	4	4	4	4	3	3	4	4	4	5	6	5	8	13	12	P	5	5.1	13.2	
15-Apr-07	8	7	7	5	6	5	5	6	4	7	4	2	1	2	2	5	6	5	6	8	9	9	6	8	5.6	9.3	
16-Apr-07	7	4	4	3	4	7	10	6	6	1	5	4	3	4	3	4	5	5	7	8	8	8	7	5	5.3	9.6	
17-Apr-07	8	7	6	6	6	8	10	9	7	11	8	12	4	5	3	4	5	5	6	4	4	4	6	8	6.4	12.0	
18-Apr-07	4	4	5	6	7	8	9	9	8	4	3	5	9	9	6	8	9	13	10	9	7	19	6	6	7.7	18.7	
19-Apr-07	6	6	9	7	5	10	6	5	4	4	4	6	6	4	5	3	3	5	6	3	3	5	2	2	5	5.0	10.2
20-Apr-07	3	2	2	3	2	2	2	2	2	3	4	3	3	6	3	5	5	3	3	4	4	3	3	5	3.3	5.8	
21-Apr-07	4	5	5	5	4	5	3	5	3	3	5	4	6	8	7	7	7	9	9	8	10	11	10	6	6.2	10.7	
22-Apr-07	13	6	7	8	7	8	9	7	6	7	5	5	4	5	6	7	8	11	11	11	11	8	7	7	7.6	12.9	
23-Apr-07	8	8	8	6	9	10	8	9	9	7	8	6	7	7	7	10	9	6	7	10	10	10	8	8.1	10.0		
24-Apr-07	5	4	6	5	5	6	8	8	7	6	4	5	7	4	2	17	11	9	8	8	10	9	10	8	7.2	17.1	
25-Apr-07	10	8	7	10	10	6	11	9	10	10	6	4	5	15	17	7	6	7	13	13	19	14	13	15	10.2	19.0	
26-Apr-07	16	15	14	19	16	10	18	9	10	11	9	9	10	8	C	C	C	C	C	22	19	10	8	6	12.6	22.2	
27-Apr-07	6	5	6	5	5	6	8	7	4	5	5	4	4	5	5	7	7	8	8	7	8	8	7	6.2	8.4		
28-Apr-07	6	6	7	10	11	15	12	12	10	13	13	12	11	8	9	6	6	5	4	6	6	7	5	6	8.5	14.5	
29-Apr-07	5	7	7	3	3	3	3	1	3	1	4	6	6	7	8	6	6	8	13	11	12	11	9	6.4	12.6		
30-Apr-07	7	6	5	6	5	5	9	9	4	4	7	6	8	7	7	8	8	8	8	5	6	8	7	5	6.6	8.8	



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

Hourly Avg	6.9	6.4	6.1	6.2	6.1	6.5	7.4	7.0	6.3	6.3	6.3	6.2	6.4	6.8	6.5	7.6	7.7	7.6	8.4	8.5	9.2	8.6	7.2	6.7
Hourly Max	16.3	14.6	14.1	19.2	15.8	14.5	17.9	16.0	12.6	13.2	12.5	12.9	12.8	15.2	16.8	17.5	15.0	13.6	17.0	22.2	20.2	18.7	13.3	14.8

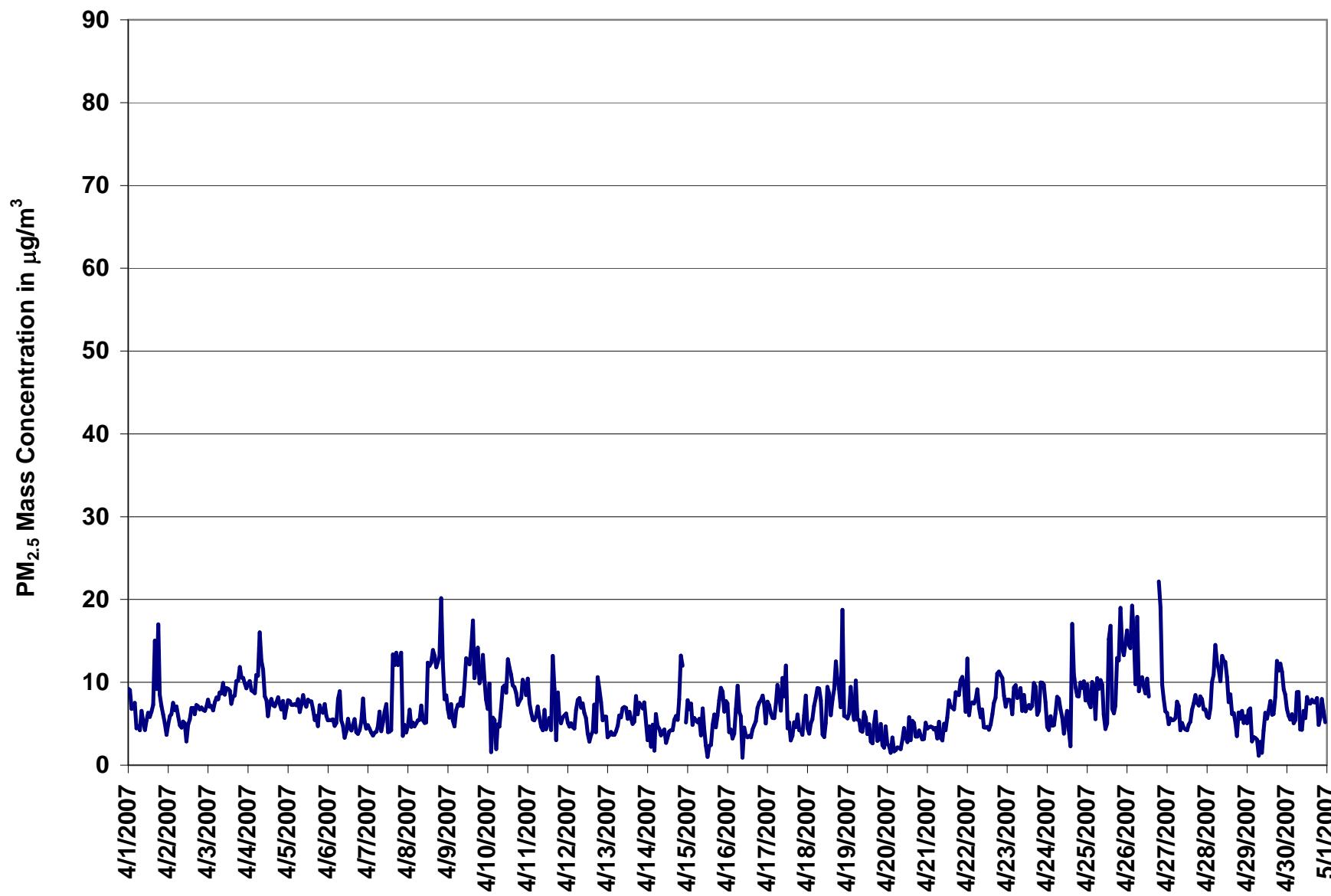
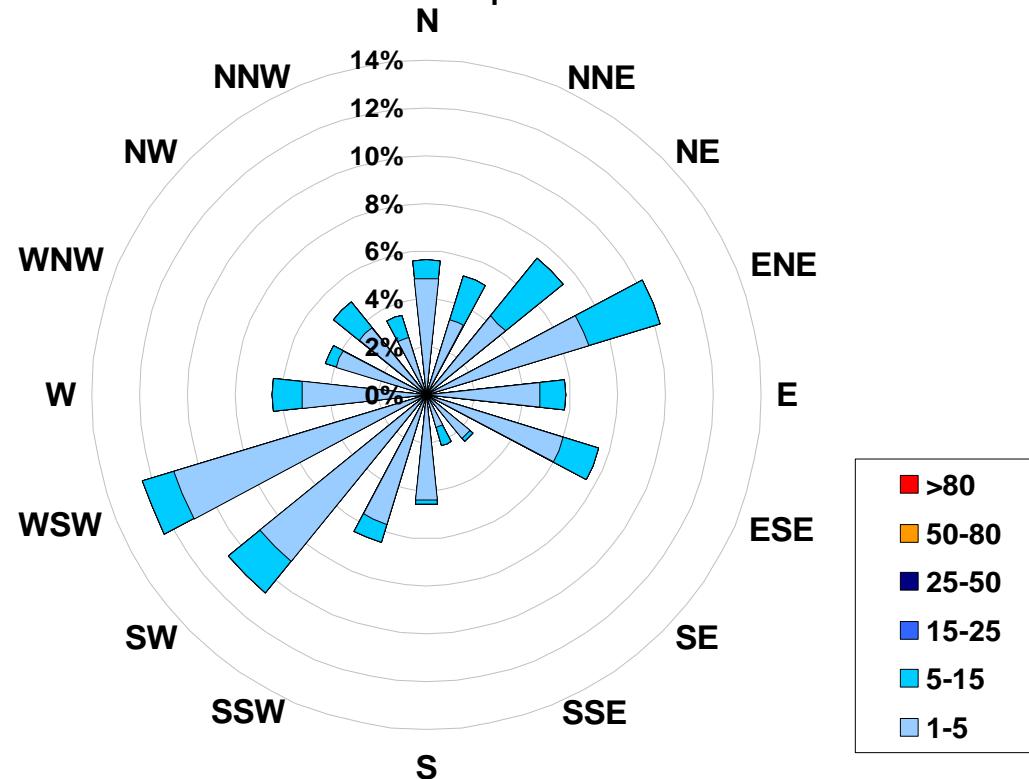


Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³		
Range		Frequency (hrs)
1.0	< 5	582
5	to 15	132
15	to 25	0
25	to 50	0
50	to 80	0
>	80	0
Total Non-Zero Values		714



PAS - Crescent Heights - Relative Humidity Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2007 to May 1, 2007

Summary

Maximum 1-hr Average:	91.7	%	24-Apr	5:00 6:00
Maximum 24-hr Value:	88.7	%	2-Apr	

AIC Time:	0 hrs	Operational Time:	719 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	99.9%
Percentile	99	95	75
	90.7	89.6	80.3
Percentile	50	25	5
	64.5	45.9	27.0
Percentile	1		
	22.4		
Average		Median	
	62.1	%	64.5 %

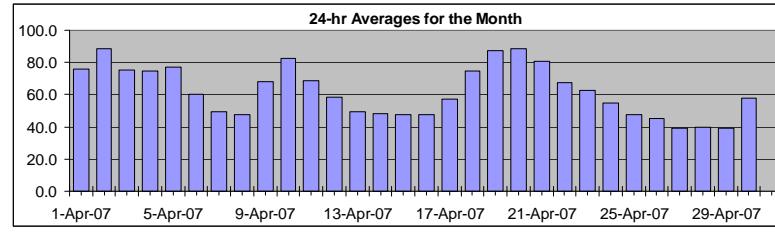
Day Mountain Standard Time

	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	25:00	26:00	27:00	28:00	29:00	30:00	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	25:00	26:00	27:00	28:00	29:00	30:00		
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	24:00	25:00	26:00	27:00	28:00	29:00	30:00			
1-Apr-07	73	73	73	75	73	71	75	78	77	77	73	71	69	69	69	68	69	70	80	86	88	89	88	89	88	89	88	89	76.0	89.0			
2-Apr-07	90	90	90	89	90	89	89	88	88	89	89	85	85	88	89	90	91	91	91	89	88	87	87	86					88.7	90.9			
3-Apr-07	86	86	84	84	83	83	82	80	78	73	68	66	65	63	63	63	67	70	75	77	79	78	77	79					75.3	85.9			
4-Apr-07	80	81	81	80	81	84	83	77	70	63	64	61	59	61	63	66	69	74	78	82	85	85	86	86					74.9	86.2			
5-Apr-07	86	86	85	85	85	85	84	81	78	77	75	71	71	74	82	85	79	74	67	65	67	67	68	70					76.9	85.6			
6-Apr-07	71	75	77	79	81	81	76	64	58	53	51	47	43	41	44	43	44	47	54	57	62	66	65	67					60.2	81.3			
7-Apr-07	69	68	66	64	65	66	60	55	50	38	40	36	36	38	37	36	39	40	45	48	49	49	47	49					49.6	68.9			
8-Apr-07	50	53	55	58	59	61	62	58	48	41	39	32	31	28	30	34	36	34	37	46	56	64	65	69					47.7	69.4			
9-Apr-07	73	74	72	74	75	76	72	66	60	47	46	45	45	47	56	78	75	71	66	72	78	85	88	88					67.8	88.1			
10-Apr-07	86	87	88	90	90	90	91	90	90	89	84	82	78	76	76	75	76	74	72	73	75	80	81	80					82.3	91.0			
11-Apr-07	80	80	80	81	83	81	75	65	60	60	58	56	60	58	57	57	55	62	68	72	75	74	78					68.9	82.6				
12-Apr-07	79	82	82	80	81	81	78	73	67	62	59	56	50	40	31	28	26	20	29	46	57	61	66	69					58.5	81.8			
13-Apr-07	66	66	63	62	62	65	64	62	56	48	43	36	28	30	28	27	29	37	45	52	61	64	66					49.6	66.2				
14-Apr-07	68	69	70	70	65	65	65	57	50	45	41	35	32	28	27	27	29	35	43	53	54	54	54					48.4	70.4				
15-Apr-07	52	53	62	61	67	69	63	63	62	65	60	48	32	23	22	22	25	25	27	33	39	48	52	61					47.4	68.6			
16-Apr-07	69	74	77	79	82	82	76	65	50	34	31	30	27	27	28	28	28	26	30	35	39	42	46	43					47.7	81.8			
17-Apr-07	42	47	52	56	59	61	59	54	48	54	74	80	70	61	52	48	49	46	52	58	62	65	64					57.2	80.4				
18-Apr-07	65	66	63	58	61	67	76	85	88	87	85	84	79	61	58	59	67	80	83	83	81	84	87					74.7	87.6				
19-Apr-07	87	86	85	85	85	85	84	84	87	87	89	90	90	88	87	88	89	89	90	90	91	90	90					87.4	90.6				
20-Apr-07	90	90	90	90	90	91	91	90	89	89	88	87	87	86	87	88	88	87	87	88	88	88	87					88.5	90.9				
21-Apr-07	87	86	87	86	87	88	89	89	88	88	86	83	80	76	73	67	62	58	64	75	80	84	88	89					80.9	89.4			
22-Apr-07	90	90	91	91	91	91	89	87	84	82	73	62	50	41	40	38	37	38	43	49	56	63	69	73					67.3	90.8			
23-Apr-07	75	75	74	73	74	76	74	71	67	59	52	47	42	36	34	42	52	57	59	64	69	76	77	81					62.7	81.3			
24-Apr-07	85	88	90	90	91	92	84	76	68	53	41	38	36	28	24	21	21	25	30	36	43	45	51	55					54.8	91.7			
25-Apr-07	59	61	65	65	64	61	59	55	51	38	33	31	29	27	26	27	29	31	37	48	59	63	65					47.8	65.1				
26-Apr-07	59	60	59	61	69	74	73	56	54	50	46	39	32	31	29	26	22	21	26	31	36	41	43	47					45.3	74.3			
27-Apr-07	49	53	56	51	52	53	55	50	40	34	30	26	25	23	22	22	24	26	29	34	40	44	46	51					39.0	55.9			
28-Apr-07	55	56	59	58	55	48	44	39	33	25	25	27	29	29	32	31	31	32	36	41	44	46	47					39.6	59.4				
29-Apr-07	52	52	50	45	45	47	46	38	30	27	26	27	28	30	32	32	28	21	28	48	59	62	70					39.4	70.1				
30-Apr-07	75	79	80	79	79	76	73	75	70	67	63	56	52	47	40	33	30	31	32	36	43	53	58	59					57.7	79.5			

Hourly Avg	71.6	72.8	73.5	73.4	74.1	74.8	73.3	69.4	64.9	60.5	57.9	54.6	51.4	49.2	48.1	48.2	48.6	48.7	52.0	56.9	62.1	66.0	68.5	70.0				
Hourly Max	90.2	90.4	90.6	90.6	91.4	91.7	91.0	90.2	90.4	88.9	88.8	88.7	89.6	89.9	88.9	90.3	90.8	90.9	90.7	89.7	89.9	90.6	90.1	90.2				

HOURLY AVERAGE TABLE

Relative Humidity (RH)



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

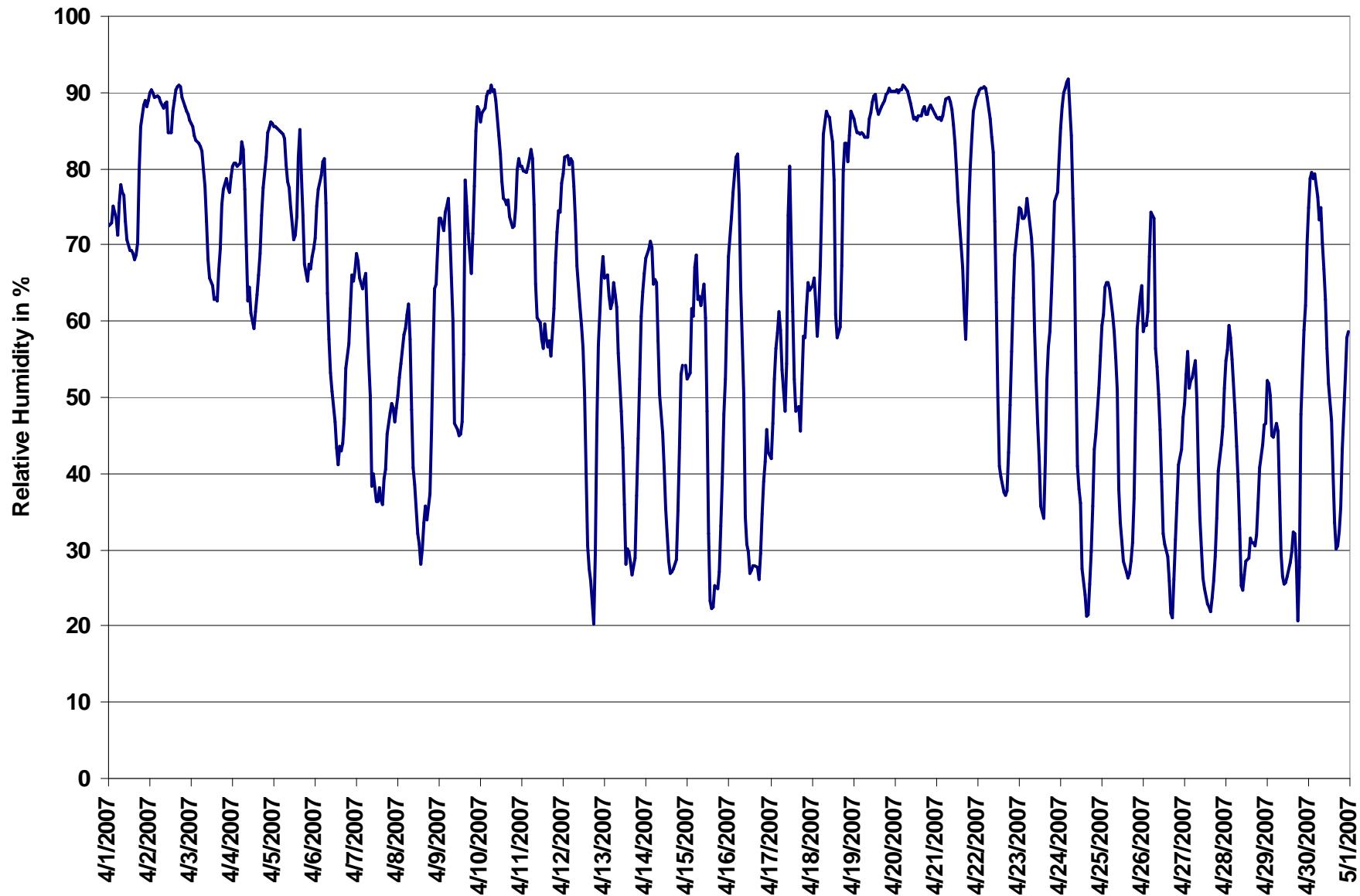


Figure 13. PAS - Crescent Heights Relative Humidity 1-hr Average Monthly Trend



PAS - Crescent Heights - Temperature Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2007 to May 1, 2007

Summary

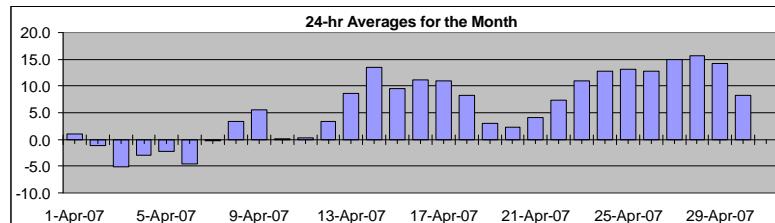
Maximum 1-hr Average:	22.1	°C	28-Apr	11:00 12:00
Maximum 24-hr Value:	15.6	°C	28-Apr	

AIC Time:	0 hrs	Operational Time:	719 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	21.5	18.9	11.3	5.3	0.5	-5.8	-8.3		

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start 1:00	0:00 2:00	1:00 3:00	2:00 4:00	3:00 5:00	4:00 6:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Apr-07	1	1	1	0	0	0	-1	-1	0	0	1	2	2	2	3	3	3	3	2	1	1	1	1	1	0	1.1	3.1	
2-Apr-07	0	-1	-1	-1	-1	-2	-2	-2	-1	-1	0	1	1	1	1	0	0	0	-1	-2	-3	-4	-4	-5	-1.1	1.2		
3-Apr-07	-5	-5	-6	-7	-7	-8	-8	-8	-7	-6	-4	-3	-2	-2	-2	-1	-2	-3	-4	-5	-5	-6	-6	-7	-5.1	-1.3		
4-Apr-07	-7	-7	-7	-7	-7	-8	-8	-7	-5	-2	-1	1	1	1	1	0	0	0	-1	-1	-1	-1	-2	-2	-3.0	0.9		
5-Apr-07	-2	-3	-3	-3	-4	-4	-4	-3	-2	-2	0	1	1	1	1	0	0	-1	-2	-3	-4	-5	-5	-7	-2.3	1.2		
6-Apr-07	-8	-9	-10	-10	-12	-13	-12	-8	-6	-4	-2	1	1	1	2	1	2	1	0	-1	-2	-3	-4	-6	-6	-7	-4.6	1.6
7-Apr-07	-7	-7	-7	-7	-7	-8	-6	-4	-2	3	2	4	6	5	6	6	5	4	3	2	1	1	1	0	-0.2	6.0		
8-Apr-07	-1	-2	-2	-3	-4	-4	-3	-2	2	4	6	8	9	10	10	10	10	10	8	6	4	3	2	1	3.4	10.3		
9-Apr-07	0	0	0	-1	-1	-1	0	3	5	9	10	11	12	12	11	8	8	8	8	7	6	6	6	5	5.5	11.6		
10-Apr-07	5	4	2	1	1	1	2	2	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2	0.1	5.0		
11-Apr-07	-2	-2	-2	-2	-2	-2	-2	-2	0	0	2	2	3	3	4	4	3	3	2	1	0	-1	-1	-1	0.2	3.7		
12-Apr-07	-2	-3	-3	-3	-3	-3	-2	-1	2	4	5	7	8	9	10	10	10	10	9	7	4	3	2	1	3.4	10.4		
13-Apr-07	1	2	2	2	2	2	3	4	7	10	11	13	14	14	15	16	16	15	14	12	9	7	7	6	8.5	15.9		
14-Apr-07	5	5	5	5	6	6	6	6	10	13	15	17	19	20	21	22	22	22	21	18	16	13	12	11	13.4	21.9		
15-Apr-07	11	11	8	6	5	5	6	7	7	8	8	10	13	14	14	14	13	13	13	11	10	8	6	5	9.5	13.9		
16-Apr-07	3	2	1	0	0	1	2	5	10	13	15	16	17	18	19	19	19	19	17	16	15	15	14	14	11.1	19.0		
17-Apr-07	12	10	8	8	7	6	7	10	12	10	9	9	11	13	14	15	15	16	14	12	11	10	9	9	10.9	15.9		
18-Apr-07	9	9	8	8	7	7	6	6	6	7	7	8	10	13	14	13	12	9	8	7	6	6	4	8.2	13.7			
19-Apr-07	4	4	4	4	3	3	3	3	3	3	3	2	2	2	3	3	3	3	3	3	3	3	3	3	3.1	4.1		
20-Apr-07	3	3	2	2	2	2	2	2	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2.3	3.4		
21-Apr-07	2	2	2	2	2	2	1	2	2	2	3	4	5	6	7	9	10	10	8	6	4	3	2	1	4.1	9.9		
22-Apr-07	0	0	-1	-1	-1	0	1	3	4	5	7	10	13	14	16	16	16	16	14	12	11	9	8	7	7.4	16.1		
23-Apr-07	7	7	7	7	7	6	7	8	10	12	14	16	17	19	19	17	15	14	12	11	10	9	8	7	11.0	18.9		
24-Apr-07	6	4	3	2	1	2	4	8	12	17	19	20	20	21	22	22	21	19	18	16	14	14	12	11	12.8	22.1		
25-Apr-07	10	9	8	7	7	8	9	10	12	14	16	17	17	18	18	19	18	17	17	16	15	14	12	11	13.1	18.9		
26-Apr-07	10	9	10	9	7	6	7	10	11	13	15	16	17	17	18	18	18	18	16	15	13	12	11	10	12.8	18.2		
27-Apr-07	10	9	8	9	9	9	9	12	14	16	18	19	20	20	21	21	21	21	19	17	15	14	13	12	14.9	21.4		
28-Apr-07	11	11	10	10	11	12	14	16	18	21	22	22	22	21	21	21	19	18	17	15	13	11	10	10	15.6	22.1		
29-Apr-07	8	8	8	9	9	9	10	12	14	17	19	19	19	19	19	21	22	21	19	14	11	9	8	8.2	21.6			
30-Apr-07	6	4	4	4	4	5	5	5	5	7	9	10	12	13	15	15	15	13	12	10	7	6	6	6	8.2	14.9		

HOURLY AVERAGE TABLE

Ambient Temperature (T)



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

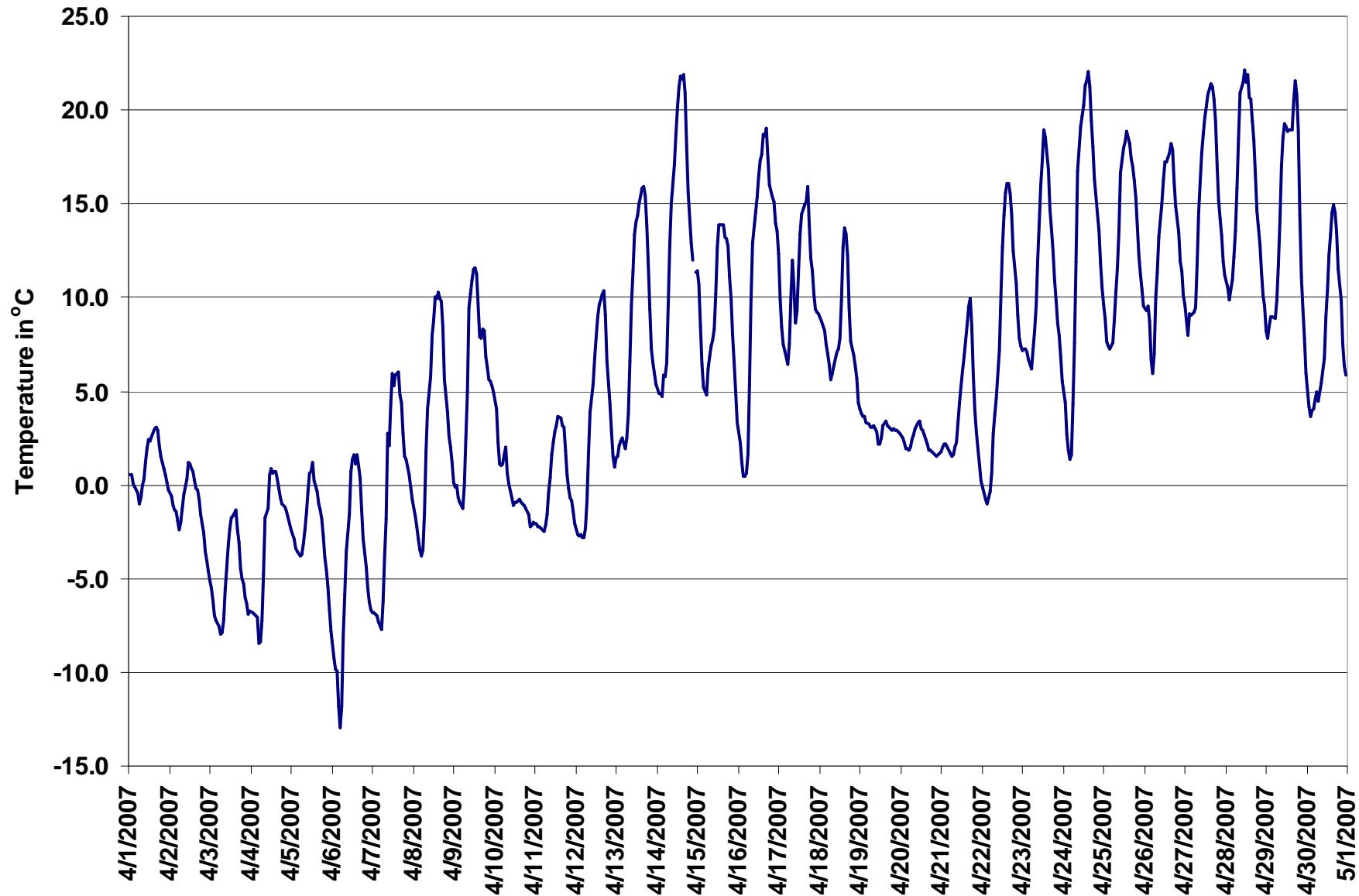


Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend



PAS - Crescent Heights - Solar Radiation Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2007 to May 1, 2007

Summary

Maximum 1-hr Average:	931.0	W/m ²	27-Apr	12:00 13:00
Maximum 24-hr Value:	309.2	W/m ²	27-Apr	

AIC Time:	0 hrs	Operational Time:	719 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	849.4	766.9	296.0	41.4	0.0	0.0	0.0	185.0 W/m ²	41.4 W/m ²

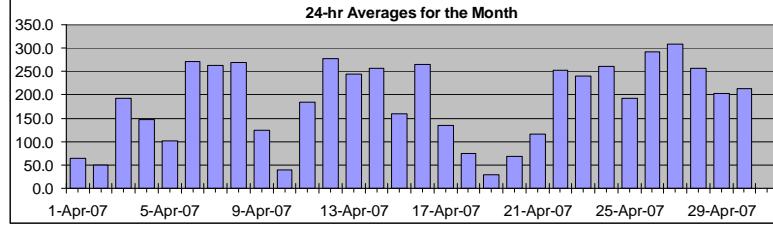
Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Apr-07	0	0	0	0	0	0	11	86	159	125	206	258	165	102	114	136	104	43	10	0	0	0	0	0	0	63.3	257.9
2-Apr-07	0	0	0	0	0	0	20	80	113	98	102	222	158	150	118	78	50	20	5	0	0	0	0	0	0	50.6	222.0
3-Apr-07	0	0	0	0	0	0	33	100	208	515	576	519	551	646	619	476	237	120	22	0	0	0	0	0	0	192.7	645.6
4-Apr-07	0	0	0	0	0	1	77	164	291	439	444	429	483	420	349	251	122	60	18	0	0	0	0	0	0	147.8	482.9
5-Apr-07	0	0	0	0	0	1	34	161	224	264	289	250	239	320	240	169	135	64	21	1	0	0	0	0	0	100.5	319.5
6-Apr-07	0	0	0	0	0	3	80	230	425	597	739	817	850	816	718	571	402	219	57	1	0	0	0	0	0	271.7	850.0
7-Apr-07	0	0	0	0	0	5	90	200	318	577	731	839	882	812	731	580	308	188	49	1	0	0	0	0	0	262.9	881.8
8-Apr-07	0	0	0	0	0	3	87	260	449	608	727	785	824	801	638	559	431	213	58	1	0	0	0	0	0	268.5	823.8
9-Apr-07	0	0	0	0	0	3	113	175	299	489	387	406	278	306	210	122	122	75	13	0	0	0	0	0	0	124.9	489.2
10-Apr-07	0	0	0	0	0	1	13	41	77	111	95	110	122	107	95	79	54	25	9	0	0	0	0	0	0	39.1	121.8
11-Apr-07	0	0	0	0	0	6	76	139	266	205	515	396	397	530	732	581	319	203	56	2	0	0	0	0	0	184.3	732.4
12-Apr-07	0	0	0	0	0	7	72	179	386	614	748	818	844	823	763	615	446	252	77	2	0	0	0	0	0	277.0	844.4
13-Apr-07	0	0	0	0	0	9	118	258	462	627	739	657	576	532	549	604	429	240	78	2	0	0	0	0	0	244.9	738.5
14-Apr-07	0	0	0	0	0	10	109	217	453	436	590	687	752	777	702	568	410	169	35	1	0	0	P	0	0	257.2	776.7
15-Apr-07	0	0	0	0	0	4	34	33	94	160	231	350	714	769	562	452	187	147	78	2	0	0	0	0	0	159.0	768.5
16-Apr-07	0	0	0	0	0	10	118	300	478	641	735	748	821	798	517	593	285	261	65	3	0	0	0	0	0	265.5	821.2
17-Apr-07	0	0	0	0	0	14	140	212	318	92	82	202	408	465	455	306	255	235	40	3	0	0	0	0	0	134.5	464.7
18-Apr-07	0	0	0	0	0	2	11	34	46	58	107	168	199	287	187	296	214	125	52	3	0	0	0	0	0	74.5	296.0
19-Apr-07	0	0	0	0	0	2	16	30	38	56	50	38	61	92	140	85	61	25	11	1	0	0	0	0	0	29.5	140.4
20-Apr-07	0	0	0	0	0	3	24	59	95	171	210	164	174	250	179	118	95	56	21	2	0	0	0	0	0	67.6	249.8
21-Apr-07	0	0	0	0	0	9	46	47	116	126	244	260	323	234	228	391	366	278	105	6	0	0	0	0	0	115.8	390.8
22-Apr-07	0	0	0	0	0	5	40	110	177	305	767	846	866	828	745	622	441	241	86	8	0	0	0	0	0	253.6	865.6
23-Apr-07	0	0	0	0	0	17	138	209	391	460	426	702	785	810	527	523	407	273	105	8	0	0	0	0	0	240.8	810.5
24-Apr-07	0	0	0	0	0	25	156	329	506	662	773	816	750	736	547	410	339	130	63	10	0	0	0	0	0	260.5	815.9
25-Apr-07	0	0	0	0	0	17	68	138	190	335	781	805	537	595	559	318	150	93	26	3	0	0	0	0	0	192.3	805.0
26-Apr-07	0	0	0	0	0	10	132	341	523	695	793	881	774	796	673	575	476	242	63	9	0	0	0	0	0	291.0	881.5
27-Apr-07	0	0	0	0	0	24	134	343	531	656	783	879	931	862	765	629	471	291	113	10	0	0	0	0	0	309.2	931.0
28-Apr-07	0	0	0	0	0	44	182	296	478	688	659	741	637	676	450	550	353	287	125	15	0	0	0	0	0	257.5	741.2
29-Apr-07	0	0	0	0	0	18	137	354	521	637	571	654	414	283	201	259	428	279	82	12	0	0	0	0	0	202.1	653.6
30-Apr-07	0	0	0	0	0	15	35	47	106	151	257	560	792	859	774	628	482	296	123	13	0	0	0	0	0	214.1	858.6

Hourly Avg	0.0	0.0	0.0	0.0	0.0	8.9	78.0	172.4	291.2	386.7	478.5	533.6	543.5	549.3	469.6	404.7	286.0	171.7	55.5	4.0	0.0	0.0	0.0	0.0	0.0
Hourly Max	0.2	0.2	0.2	0.1	0.4	43.7	181.6	353.6	531.0	695.2	793.1	881.5	931.0	862.0	774.2	629.2	482.2	296.0	125.0	15.1	0.3	0.2	0.3	0.2	0.2

HOURLY AVERAGE TABLE

Solar Radiation (SR)



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

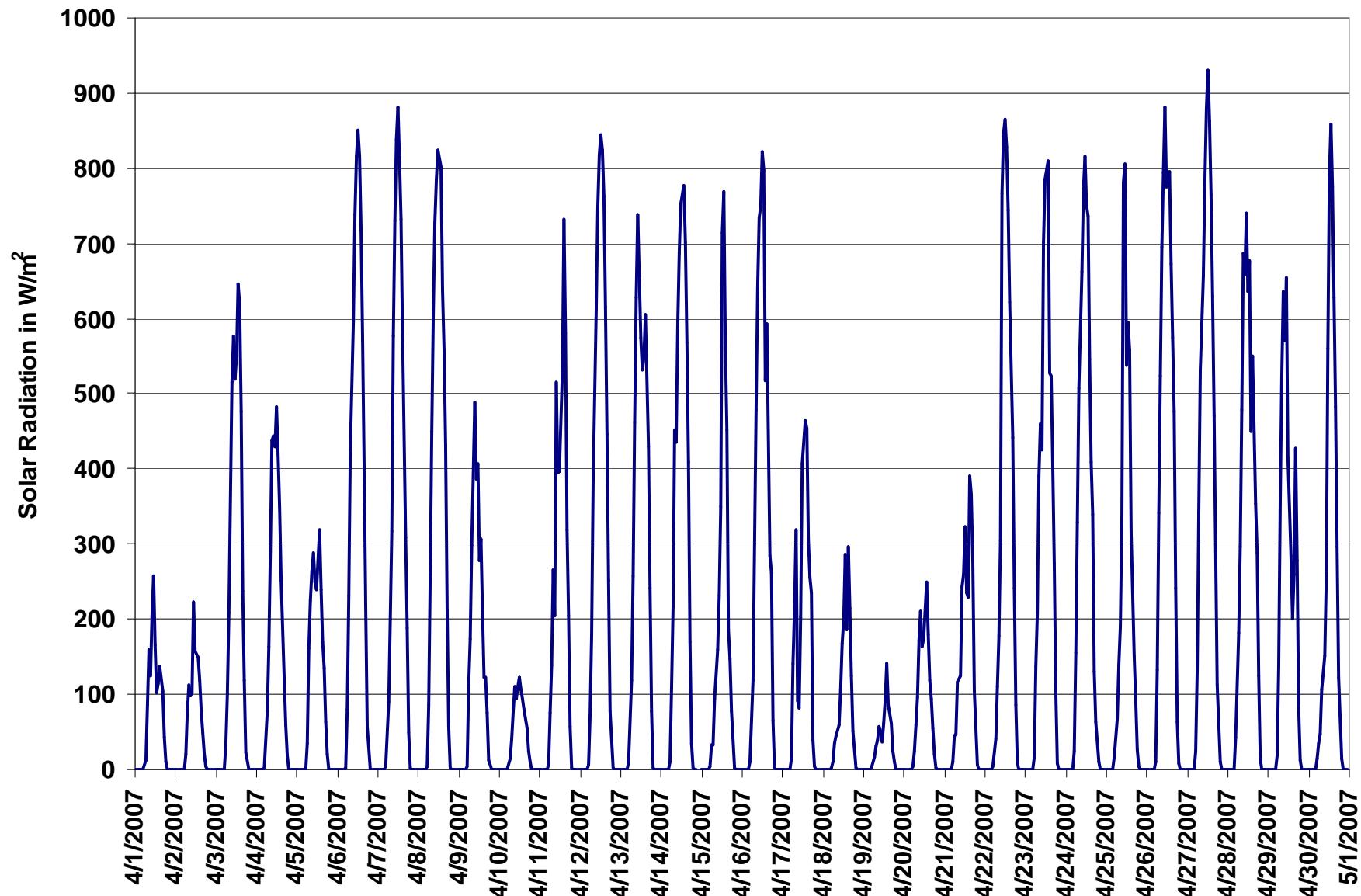


Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend



PAS - Crescent Heights - Scalar Wind Speed Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2007 to May 1, 2007

Summary

Maximum 1-hr Average:	29.9	km/hr	16-Apr	17:00 18:00
Maximum 24-hr Value:	18.6	km/hr	28-Apr	

Calm Time:	0 hrs	0% calms	Operational Time:	719 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.9%				
Percentile	99	95	75	50	25	5	1	AverageS
	26.4	22.7	15.1	10.9	7.5	4.5	3.3	11.8 km/hr

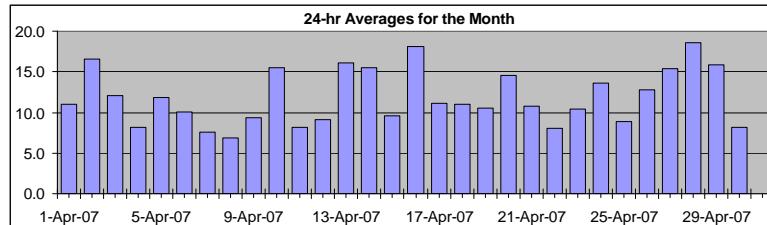
Day Mountain Standard Time

	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	6:00 7:00	7:00 8:00	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	Daily Max
	Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00			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-Apr-07	10	11	11	11	9	11	13	14			15	13	11	10	8	9	8	8	9	9	12	11	8	13	15	14	11.0	14.7
2-Apr-07	13	12	14	16	15	15	18	17			16	14	12	17	15	14	15	16	18	16	17	21	22	23	20	22	16.6	23.1
3-Apr-07	19	18	21	20	19	19	16	15			13	14	12	10	9	10	10	8	8	7	7	6	7	8	7	6	12.1	21.0
4-Apr-07	4	6	5	5	2	5	5	4			5	5	7	7	10	12	13	12	12	12	11	10	10	11	13	13	8.2	13.0
5-Apr-07	12	11	11	11	8	9	8	10			9	11	10	5	6	7	11	14	21	20	17	13	15	15	17	15	11.9	20.9
6-Apr-07	11	12	12	10	6	7	7	4			6	7	8	9	12	14	15	13	14	13	15	11	12	8	9	8	10.1	15.0
7-Apr-07	9	9	9	9	8	8	5	5			3	3	7	6	8	11	9	9	11	9	7	4	6	7	10	9	7.5	10.8
8-Apr-07	8	5	7	7	4	6	4	4			4	6	7	7	8	8	10	11	13	9	8	6	6	6	4	6	6.9	12.7
9-Apr-07	6	4	6	4	5	5	7	5			4	4	5	11	10	10	9	11	13	9	15	19	19	13	15	17	9.4	19.3
10-Apr-07	13	15	15	15	15	13	9	18			18	22	24	23	24	23	20	17	15	15	13	12	11	6	7	8	15.5	24.3
11-Apr-07	8	8	9	7	8	7	6	5			5	4	6	5	6	10	12	13	12	14	13	9	7	7	8	7	8.2	13.7
12-Apr-07	5	3	4	5	4	6	9	8			13	18	18	15	14	13	11	8	8	7	7	7	6	6	8	9.1	18.4	
13-Apr-07	9	10	12	12	21	17	18	21			17	15	17	16	19	19	20	22	23	22	17	16	10	6	9	16.0	23.2	
14-Apr-07	17	13	9	12	16	14	13	16			20	24	23	22	21	20	23	21	14	16	10	7	7	7	P	11	15.5	24.1
15-Apr-07	13	11	11	15	12	7	10	10			13	11	10	10	9	11	13	11	10	8	7	7	6	6	3	4	9.5	14.7
16-Apr-07	7	6	6	6	8	7	6	6			11	17	24	26	25	25	25	25	28	30	25	22	24	27	24	18.1	29.9	
17-Apr-07	20	15	14	12	13	11	12	11			14	15	9	6	7	14	15	13	7	5	8	10	13	9	7	8	11.2	20.2
18-Apr-07	5	4	7	7	3	6	6	6			7	12	20	20	20	16	15	11	13	14	16	14	9	9	11	11.0	20.4	
19-Apr-07	11	11	13	13	13	11	12	13			13	13	9	8	9	9	12	12	12	10	8	7	7	8	8	10.5	13.5	
20-Apr-07	9	9	12	11	9	9	10	12			14	17	18	16	20	19	19	20	17	17	16	15	17	18	13	12	14.6	20.4
21-Apr-07	13	15	11	11	11	11	11	11			11	12	13	14	13	11	11	12	11	11	11	7	5	4	4	10.7	14.8	
22-Apr-07	4	2	4	3	3	4	4	4			6	10	7	9	11	12	10	10	9	9	10	11	12	13	10	11	8.1	12.8
23-Apr-07	10	11	11	11	7	4	5	5			7	6	5	6	8	8	8	24	28	24	15	10	9	9	11	7	10.4	27.6
24-Apr-07	7	5	6	7	5	4	3	5			6	10	18	24	23	24	21	21	19	19	22	20	17	12	9	13.6	24.2	
25-Apr-07	16	17	9	10	8	11	10	11			10	6	6	8	7	8	10	9	7	6	4	8	14	6	5	9	8.9	16.5
26-Apr-07	11	9	14	17	6	9	8	8			11	10	14	14	14	16	14	12	12	9	14	19	20	16	15	14	12.8	20.1
27-Apr-07	15	12	13	15	16	13	12	11			15	15	13	19	20	19	18	20	21	18	17	14	13	11	9	15.4	21.0	
28-Apr-07	17	19	15	17	25	29	24	24			29	29	26	18	18	14	16	18	20	21	19	11	9	9	10	9	18.6	29.1
29-Apr-07	6	6	8	10	11	11	12	21			23	18	18	19	17	16	16	18	24	25	21	19	14	12	18	17	15.8	24.8
30-Apr-07	15	12	7	8	7	8	10	11			9	8	6	6	7	7	6	6	5	6	7	9	9	7	8	11	8.1	14.6

1-hr Average	10.7	10.1	10.3	10.6	9.9	10.0	9.8	10.7	11.8	12.2	12.8	13.0	13.4	13.6	13.9	14.2	14.5	13.7	12.9	12.1	11.8	10.6	10.6	10.8
Hourly Max	20.2	19.2	21.0	20.5	25.1	28.6	24.1	24.0	29.0	29.1	26.4	26.1	24.8	25.1	25.0	24.8	28.0	29.9	25.1	22.0	24.4	26.8	23.5	23.3

HOURLY AVERAGE TABLE

Wind Speed (WSs)



Status Flag Characters

C Calibration

S Instrument out of Service

N No Data

D Excessive Instrument Drift

A AIC - Zero / Span Check

X Filter Exchange

M Equipment Maintenance

P Power Failure



PAS - Crescent Heights - Vector Wind Speed Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2007 to May 1, 2007

Summary

Maximum 1-hr Average:	29.7	km/hr	16-Apr	17:00 18:00
Maximum 24-hr Value:	17.9	km/hr	16-Apr	

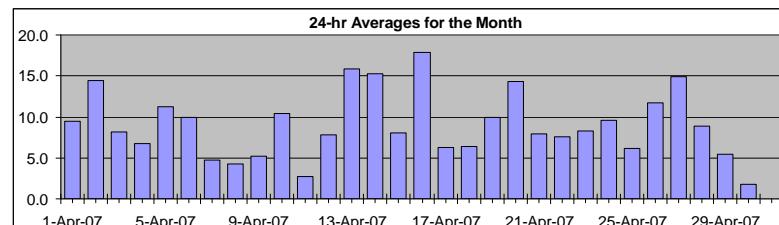
Calm Time:	1 hrs	0% calms	Operational Time:	718 hrs							
Calibration Time:	0 hrs		AMD Operational Uptime:	99.9%							
Percentile	99	95	75	50	25	5	1	AverageV			
	26.1	22.5	14.9	10.6	6.9	3.6	2.1	5.6 km/hr			

Day Mountain Standard Time

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 24:00	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-hr Vector Average	Daily Max
1-Apr-07	10 11 11 11 9 11 13 14 14 13 10 9 7 9 8 8 9 8 12 11 8 13 15 14		9.4	14.6
2-Apr-07	13 12 14 16 15 15 18 17 15 14 11 17 15 14 15 16 17 16 17 21 21 23 20 22		14.4	23.0
3-Apr-07	19 18 21 20 19 19 16 15 13 14 12 9 9 9 10 8 7 7 7 6 6 8 7 5		8.1	20.9
4-Apr-07	3 6 5 4 1 4 5 4 5 4 6 7 10 12 13 12 11 12 10 10 10 11 12 13 10		6.7	13.0
5-Apr-07	12 11 11 11 8 9 8 10 9 10 10 5 5 6 10 14 21 19 17 13 15 15 17 15		11.2	20.8
6-Apr-07	11 12 12 10 6 7 7 4 6 7 8 8 11 14 14 13 13 13 15 11 12 8 9 8		9.9	14.9
7-Apr-07	9 9 9 9 8 7 4 5 3 2 6 3 7 8 6 8 10 9 6 3 5 6 6 9 9		4.7	9.8
8-Apr-07	8 5 7 5 4 6 4 1 3 5 6 6 5 5 9 10 12 9 7 6 6 6 6 4 6		4.3	12.1
9-Apr-07	6 4 5 4 5 4 7 5 3 3 2 11 9 10 8 10 12 6 14 19 19 13 15 16		5.3	19.1
10-Apr-07	13 15 15 15 15 13 8 17 18 22 24 23 24 22 20 17 15 14 13 12 11 6 7 8		10.4	24.2
11-Apr-07	8 8 8 7 8 7 6 5 4 2 5 3 2 9 12 12 11 13 13 9 7 7 7 6		2.7	13.4
12-Apr-07	3 2 3 5 3 6 9 8 13 18 18 17 15 14 12 10 7 7 6 7 6 5 6 7		7.8	18.2
13-Apr-07	9 10 11 12 21 17 18 21 17 15 17 16 18 18 20 22 23 22 17 16 9 6 8 16		15.9	22.7
14-Apr-07	17 13 9 11 16 14 13 15 20 24 22 22 21 20 23 21 13 15 10 6 7 6 P 11		15.3	23.8
15-Apr-07	12 10 10 15 12 7 10 10 13 10 10 9 4 9 12 9 9 7 7 7 6 5 3 4		8.1	14.6
16-Apr-07	6 6 6 6 8 7 6 6 11 17 24 26 24 25 24 24 28 30 25 22 24 26 23 23		17.9	29.7
17-Apr-07	20 14 14 12 13 11 12 11 13 14 8 3 6 14 15 12 7 3 8 10 12 8 6 8		6.3	19.9
18-Apr-07	3 3 6 6 calm 4 5 6 6 11 20 20 20 16 15 11 13 14 16 13 9 6 10 11		6.3	20.3
19-Apr-07	11 11 13 13 13 11 12 13 13 13 8 7 9 8 11 12 12 10 8 7 6 8 8 8		9.9	13.2
20-Apr-07	8 9 12 11 9 9 10 12 14 17 18 16 20 19 19 20 17 17 16 15 17 18 13 12		14.3	20.3
21-Apr-07	13 15 11 11 11 11 11 11 12 13 14 14 13 10 11 11 10 10 11 11 7 4 4 3		8.0	14.7
22-Apr-07	3 2 2 3 2 4 4 6 10 7 8 10 11 9 8 8 8 10 11 12 13 10 11 9		7.6	12.7
23-Apr-07	9 11 11 11 7 4 5 4 6 6 6 3 4 6 7 5 24 27 23 14 10 9 9 11 6		8.2	27.3
24-Apr-07	7 4 6 7 4 4 3 5 6 9 17 24 23 24 21 20 19 18 18 21 20 17 12 9		9.6	23.6
25-Apr-07	15 16 9 10 7 11 9 10 10 4 5 6 5 7 8 9 7 6 4 7 14 5 4 8		6.1	16.4
26-Apr-07	11 9 14 17 6 9 8 7 11 9 13 13 15 13 10 11 8 14 18 20 16 15 14		11.7	19.8
27-Apr-07	15 12 12 15 16 13 11 11 15 14 11 18 19 18 17 19 21 20 18 16 14 13 11 8		14.9	20.6
28-Apr-07	16 19 15 17 25 28 24 24 29 29 26 18 17 13 15 17 20 21 19 11 9 8 9 8		8.9	28.7
29-Apr-07	6 6 7 10 10 11 12 21 22 18 17 19 16 15 16 18 24 23 21 19 13 11 18 17		5.5	24.0
30-Apr-07	14 12 7 8 7 8 9 10 9 8 5 3 3 4 3 4 2 4 7 9 9 7 8 11		1.7	14.5
1-hr Vector	2.8 2.3 2.4 2.6 2.9 3.2 2.9 2.4 3.1 3.3 3.9 2.9 2.8 3.5 3.7 3.1 2.6 2.3 1.3 1.3 1.4 1.0 1.2 1.3			
Hourly Max	19.9 19.1 20.9 20.4 25.0 28.5 24.0 23.8 28.7 28.6 26.2 25.6 24.1 24.6 24.3 24.3 27.6 29.7 25.0 21.9 24.2 26.2 23.4 23.2			

HOURLY AVERAGE TABLE

Wind Speed (WSv)



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



PAS - Crescent Heights - Wind Direction Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2007 to May 1, 2007

HOURLY AVERAGE TABLE

Wind Direction (WD)

Summary

Calm Time: 0 hrs 0% calms														Operational Time: 719 hrs													
Calibration Time: 0 hrs														AMD Operational Uptime: 99.9%													
Percentile														Average													
99 95 75 50 25 5 1														252 deg													
357.7 330.8 256.3 208.8 82.9 19.5 4.4																											

Status Flag Characters

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

Day Mountain Standard Time

	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	WD Sector
	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-Apr-07	347	345	346	339	330	327	331	347	352	350	4	31	20	9	29	40	44	39	35	47	50	51	62	48	13	NNE	
2-Apr-07	39	21	11	12	8	358	360	359	356	355	4	56	57	62	67	66	67	69	67	62	67	69	70	68	42	NE	
3-Apr-07	67	61	46	42	44	52	41	30	21	16	13	5	353	338	341	323	329	315	309	301	268	239	230	215	20	NNE	
4-Apr-07	205	196	208	229	55	108	112	98	104	91	71	88	89	77	81	80	75	79	68	52	60	71	80	75	83	E	
5-Apr-07	66	72	77	78	61	66	66	59	46	57	90	83	52	358	358	36	51	58	61	57	61	63	72	74	60	ENE	
6-Apr-07	97	111	95	102	118	126	118	119	97	98	104	114	133	121	112	122	132	119	114	120	124	139	127	118	116	ESE	
7-Apr-07	104	103	88	89	69	44	55	85	44	13	355	19	171	184	152	177	189	162	178	152	112	109	121	121	119	ESE	
8-Apr-07	187	169	199	171	119	25	2	327	222	219	209	169	134	133	185	175	174	178	153	104	118	122	99	359	162	SSE	
9-Apr-07	11	45	98	46	64	84	82	80	80	109	168	158	155	143	175	158	152	169	181	204	220	233	241	245	176	S	
10-Apr-07	260	263	267	271	279	288	313	10	12	34	32	40	40	43	41	24	25	19	19	26	34	11	358	357	8	N	
11-Apr-07	13	18	11	15	10	5	9	41	64	138	225	134	236	255	252	248	230	210	209	213	198	201	213	241	244	WSW	
12-Apr-07	233	347	198	200	199	231	226	224	224	232	227	226	239	238	257	266	261	230	202	170	144	150	140	212	225	SW	
13-Apr-07	200	217	237	236	228	236	238	230	232	239	234	229	233	230	236	229	227	232	232	217	220	251	247	233	231	SW	
14-Apr-07	239	239	247	241	227	235	237	237	237	232	227	236	234	228	220	222	242	251	273	255	225	227	P	233	235	SW	
15-Apr-07	249	250	306	319	320	313	337	319	321	292	278	269	318	335	344	338	308	313	327	307	262	340	3	180	308	NW	
16-Apr-07	204	203	197	185	210	203	206	209	209	194	199	204	190	195	191	183	188	188	186	182	185	205	205	195	SSW		
17-Apr-07	216	237	232	225	228	238	232	222	230	236	274	167	182	206	215	222	245	5	47	54	64	85	93	109	218	SW	
18-Apr-07	173	91	215	208	236	304	209	281	262	329	359	2	3	7	52	26	342	317	301	296	281	278	251	269	323	NW	
19-Apr-07	269	264	269	254	272	269	288	316	322	322	307	292	283	296	300	301	303	296	305	294	273	276	294	279	290	WNW	
20-Apr-07	277	274	274	275	267	244	242	234	233	237	238	244	243	256	251	245	250	255	255	256	240	238	247	255	250	WSW	
21-Apr-07	249	241	256	259	251	253	262	251	256	260	261	258	272	273	288	309	317	314	349	3	14	46	123	72	276	W	
22-Apr-07	108	71	56	4	72	109	106	93	102	96	60	56	55	57	77	54	64	57	57	51	57	65	74	57	67	ENE	
23-Apr-07	29	47	80	90	88	56	70	39	42	55	72	88	109	116	343	357	13	33	68	96	92	103	101	67	56	NE	
24-Apr-07	53	86	128	117	130	111	107	109	113	115	204	203	201	210	208	212	264	257	240	223	227	241	245	253	213	SSW	
25-Apr-07	239	235	255	238	239	240	237	232	231	225	30	74	163	275	264	267	325	332	340	296	274	295	118	231	253	WSW	
26-Apr-07	227	233	229	229	250	261	259	294	281	288	301	304	294	295	279	275	265	271	237	241	251	262	256	254	263	W	
27-Apr-07	259	251	250	271	275	271	237	245	275	276	258	236	231	241	256	252	250	258	264	260	235	258	242	251	254	WSW	
28-Apr-07	232	211	223	213	217	227	230	226	228	249	262	282	305	306	325	350	358	7	19	20	21	39	32	45	269	W	
29-Apr-07	69	77	90	85	74	93	110	111	114	123	173	170	164	174	184	182	193	213	262	282	308	310	317	316	169	S	
30-Apr-07	315	314	300	292	284	285	299	300	312	315	298	203	57	128	207	158	120	71	68	56	77	110	112	108	335	NNW	

Hourly Avg 248 246 256 257 262 269 267 281 270 268 261 225 224 235 242 249 264 268 276 262 206 207 157 225



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

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: April 1, 2007 to May 1, 2007

HOURLY AVERAGE TABLE

Wind Direction (WD)

Summary

Calm Time: 0 hrs 0% calms								Operational Time: 719 hrs							
Calibration Time: 0 hrs								AMD Operational Uptime: 99.9%							
Percentile	99	95	75	50	25	5	1								
	54.4	40.8	15.9	10.4	7.0	5.0	3.9								

Determined by the Yamartino 15-min interval calculation

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

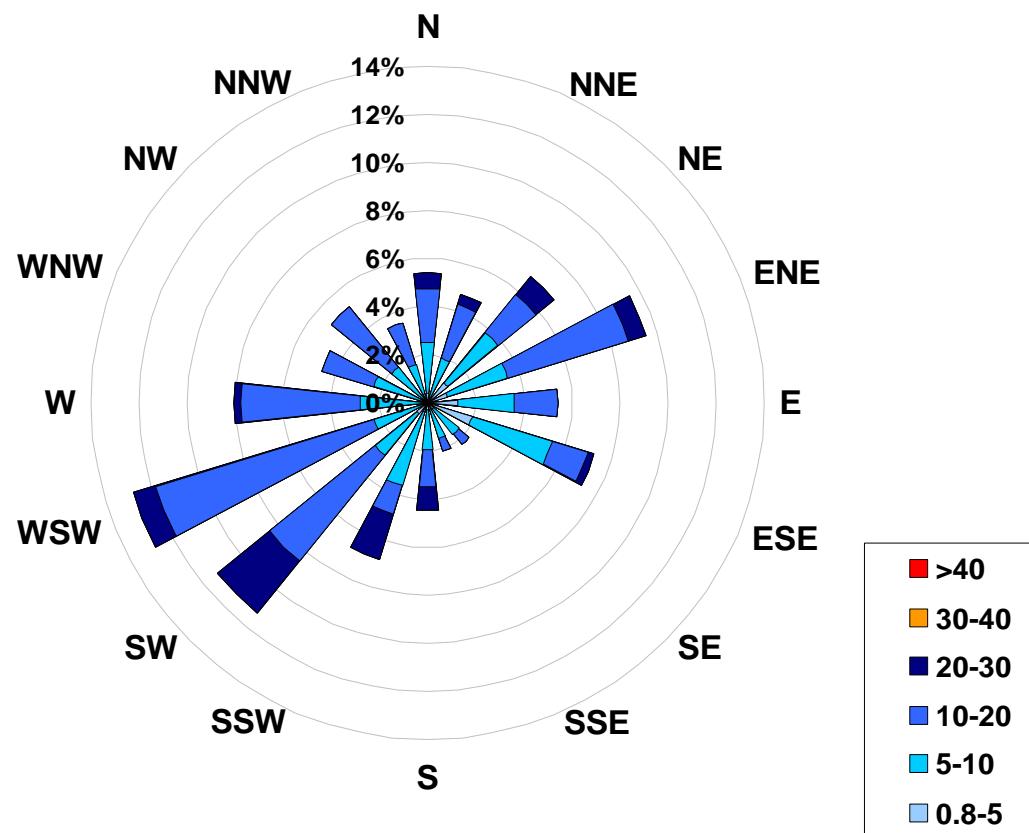
Day Mountain Standard Time

	Hour Start 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum	
1-Apr-07	6	5	4	8	10	7	6	6	7	7	14	18	22	11	12	19	12	14	7	7	9	6	7	6	21.6	
2-Apr-07	7	5	4	4	4	4	3	3	4	5	12	6	6	7	7	7	5	6	6	5	4	6	6	12.5		
3-Apr-07	7	6	6	4	5	5	6	8	6	8	10	14	10	12	12	19	14	16	11	17	12	11	19	32	31.7	
4-Apr-07	35	14	11	34	50	11	9	9	10	20	20	18	12	11	9	10	8	7	6	5	6	5	7	5	50.5	
5-Apr-07	6	7	7	8	9	8	11	9	8	13	10	18	20	18	9	7	5	6	7	6	6	6	5	6	19.9	
6-Apr-07	12	8	6	9	16	11	6	26	12	16	17	25	18	13	13	15	15	12	5	6	5	15	8	7	25.6	
7-Apr-07	7	8	6	6	7	8	13	12	16	48	21	29	39	29	38	25	24	13	26	44	32	16	11	24	47.8	
8-Apr-07	15	27	18	18	36	26	11	52	55	36	34	47	36	32	25	19	16	11	12	7	8	9	16	13	55.4	
9-Apr-07	8	13	11	13	13	13	17	14	24	46	37	41	11	17	14	23	12	11	28	8	6	5	10	8	7	45.9
10-Apr-07	7	8	7	6	5	7	11	4	5	7	5	7	7	8	7	6	9	7	8	7	10	6	5	5	11.5	
11-Apr-07	5	9	5	9	5	6	10	14	28	50	55	57	50	24	15	16	16	10	10	7	6	5	7	22	56.6	
12-Apr-07	27	21	52	12	45	9	7	10	10	7	8	12	15	16	18	19	25	31	15	11	18	13	8	16	51.7	
13-Apr-07	7	6	18	16	7	9	5	4	6	13	11	12	14	12	11	13	11	8	5	5	9	36	21	5	36.4	
14-Apr-07	6	9	13	9	6	8	9	9	11	8	10	10	11	14	13	12	14	10	7	16	12	26	P	9	25.9	
15-Apr-07	16	17	13	4	8	10	10	10	8	9	14	21	47	34	19	26	17	15	13	14	18	18	26	41	47.2	
16-Apr-07	13	7	8	10	7	7	8	25	14	13	13	11	13	11	12	12	9	7	6	6	7	8	6	5	25.4	
17-Apr-07	6	8	7	12	8	14	8	11	11	10	14	54	21	11	11	12	12	30	9	4	5	11	11	9	54.2	
18-Apr-07	42	36	37	45	58	29	22	15	24	10	4	4	5	13	10	13	7	7	10	9	14	29	11	8	58.2	
19-Apr-07	9	10	9	8	8	9	10	8	9	8	12	10	11	12	10	9	10	11	11	11	11	11	11	10	12.4	
20-Apr-07	10	10	8	10	9	9	7	6	6	5	7	8	6	6	7	7	8	7	6	7	8	9	9	10.4		
21-Apr-07	8	7	9	8	10	8	7	8	8	7	7	8	9	10	15	16	13	13	7	2	17	19	20	14	19.6	
22-Apr-07	45	43	53	26	32	14	19	15	11	19	23	17	24	26	27	30	24	13	7	4	3	6	4	6	52.5	
23-Apr-07	8	6	5	6	12	20	13	17	17	20	46	45	49	30	53	6	6	7	9	10	12	12	8	21	53.3	
24-Apr-07	8	19	10	11	18	15	28	16	14	13	23	12	13	11	10	13	9	6	7	6	5	6	11	16	28.0	
25-Apr-07	8	6	8	12	33	6	14	11	9	48	42	41	59	33	34	21	19	13	11	10	7	22	22	14	58.8	
26-Apr-07	7	17	6	6	16	7	12	27	14	22	12	17	16	14	16	27	22	24	8	6	7	5	6	5	27.4	
27-Apr-07	5	7	8	5	5	5	9	11	8	11	23	15	15	16	14	13	10	7	7	7	9	7	15	23	23.4	
28-Apr-07	8	5	8	11	4	4	4	6	6	8	7	17	14	19	13	11	8	8	7	11	16	17	17	11	18.8	
29-Apr-07	10	14	13	7	7	6	8	7	7	12	14	9	9	12	9	9	10	11	5	6	7	7	5	6	14.4	
30-Apr-07	8	8	15	15	13	12	11	17	19	38	54	36	54	68	49	68	45	18	7	8	11	10	8	8	68.5	

Hourly Max 45 43 53 45 58 29 28 52 55 50 55 57 59 54 68 49 68 45 26 44 32 36 26 41



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



Calms: 0%

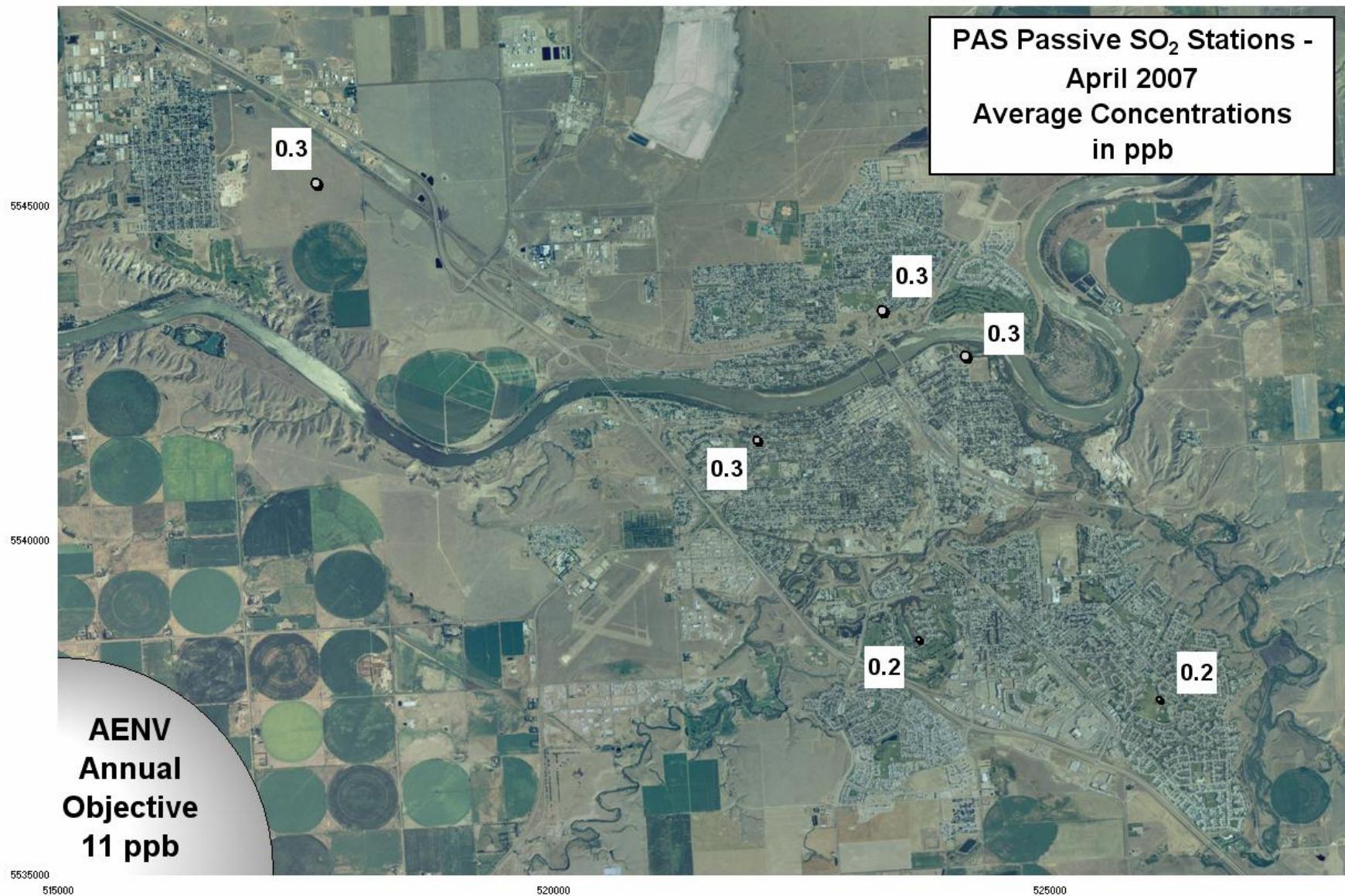
Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range	<	to	
0.8	<	5	57
5	to	10	255
10	to	20	335
20	to	30	72
30	to	40	0
	>	40	0
Total Non-Zero Values			719

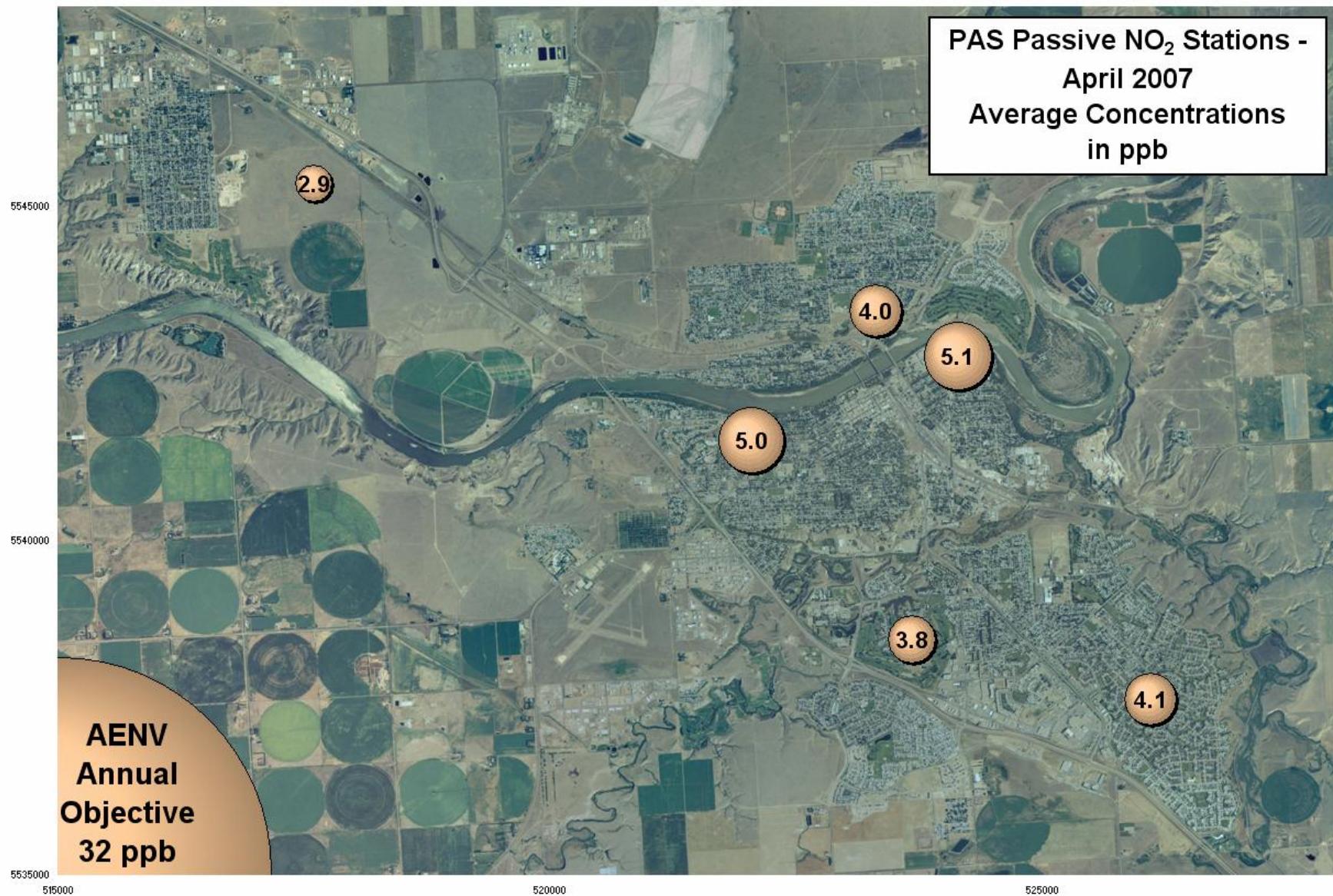


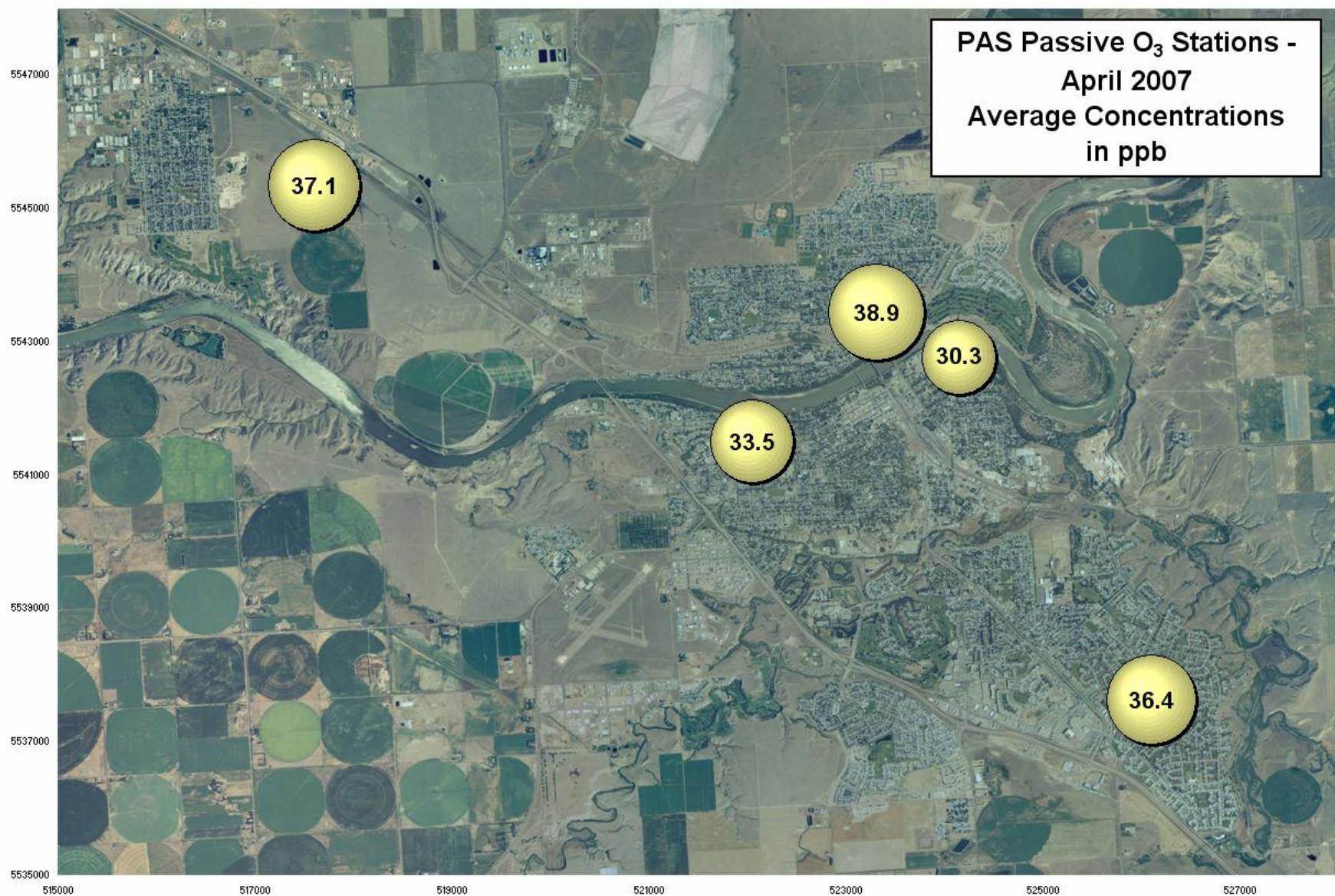
Passive Monitoring – April 2007

Station Number	Station Name	SO ₂ ppb	O ₃ ppb	NO ₂ ppb	Location		
Duplicates					Easting	Northing	Elevation
1a	Hospital	0.3	31.8	5.1			
1b	Hospital	0.2	35.2	4.9			
1	Hospital	0.3	33.5	5.0	521648	5542721	698
2	Ball Park	0.3	30.3	5.1	524019	5543686	660
3	Monitoring Station	0.3	38.9	4.0	522812	5544133	714
4	Redcliff	0.3	37.1	2.9	517448	5545608	725
5	Southridge	0.2	N/A	3.8	523172	5539016	721
6	Christian School Park	0.2	36.4	4.1	526577	5538133	709
Stats:							
Mean							
Standard Deviation							
Minimum							
Maximum							
Minimum							
Maximum							
Minimum							
Maximum							

0.2	6	Christian School Park
0.3	3	Monitoring Station
30.3	2	Ball Park
38.9	3	Monitoring Station
2.9	4	Redcliff
5.1	2	Ball Park







Palliser Airshed Society

April 2007 - Calibration Reports

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

Calibration Report

Parameter

O3

Air Monitoring Network

Palliser Airshed

Station Information

Calibration Date	April 26, 2007	Previous Calibration	March 29, 2007
Station Number	101	Station Location	Crescent Heights
Reason:	Routine	Calibration	Removal
			Other:
Start Time (MST)	7:30	End Time (MST)	10:24
Barometric Pressure	27.3 inches Hg	Station Temperature	22.0 Deg C
Calibrator	Environics 6100	Serial Number	3474
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 1 volt	DACS channel #	5
	Before		After
Calculated slope	1.046982	Calculated slope	1.144083
Calculated intercept	-0.137321	Calculated intercept	0.679030
Analyzer make	API Model 400E	Analyzer serial #	331
Concentration range Offset Slope Lamp measure Lamp Reference Pressure Sample Flow Sample temp	before	after	
	0 - 500	ppb	0 - 500
	-9.7	ppb	-9.7
	0.946		0.946
	4833.3	mV	4783.8
	4834.2	mV	4784.8
	26.5	inches Hg	25.9
	680	ccm	670
	39.8	Deg C	39.8

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	-3.7	N/A
4988	300.0	297.9	256.6	1.1611
4988	200.0	200.5	177.2	1.1316
4988	100.0	105.6	95.5	1.1054
4988	0.0	0.0	-3.7	0.0000
4988	300.0	297.9	256.6	1.1611
Average Correction Factor				1.1327

Calculated value of As Found Response: 272.4 ppm Percent Change of As Found: -8.6%

Auto zero Auto span	before calibration		after calibration	
	-2.9	ppb	-3.2	ppb
	367.1	ppb	401.1	ppb

Notes: What we thought was a regulator problem for NOX may have in fact been a problem with the O3 generator in the calibrator. Due to this, no adjustments were made this month.

Calibration Performed By: Travis Mehrer

Calibration SummaryParameter O3

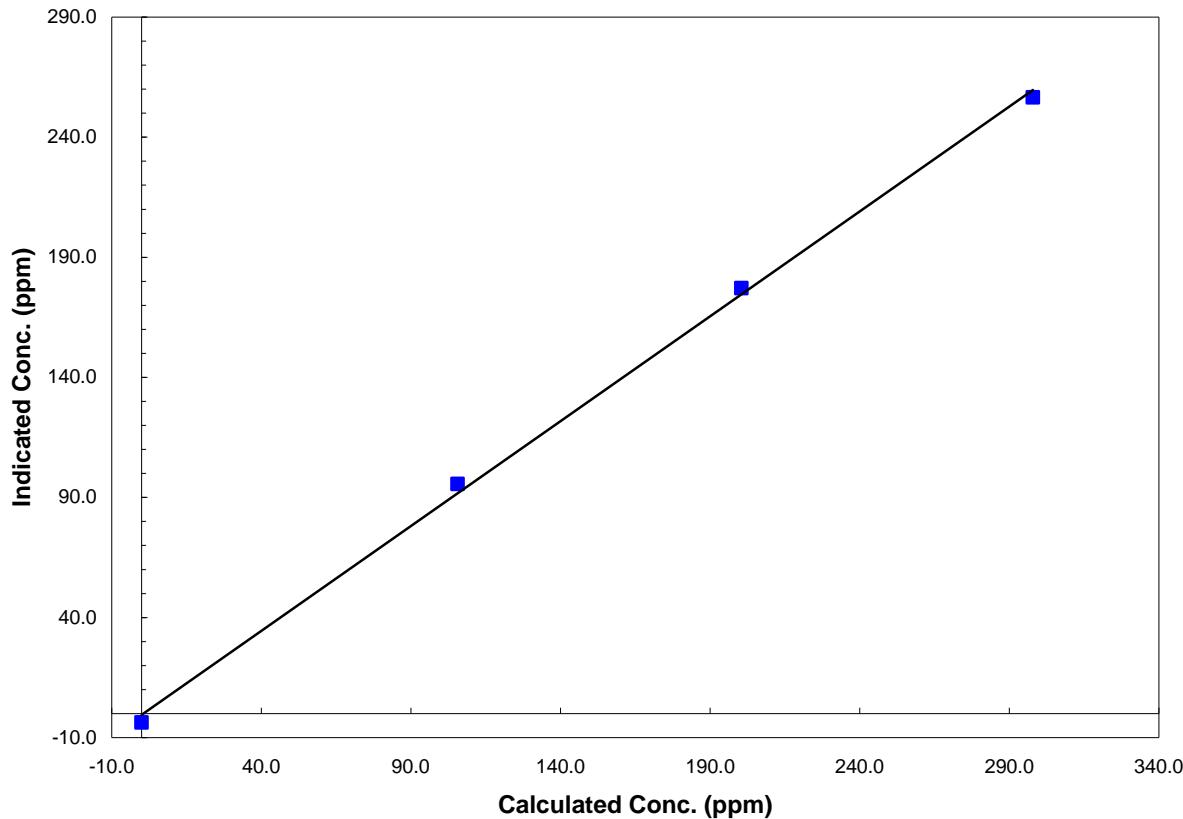
Air Monitoring Network

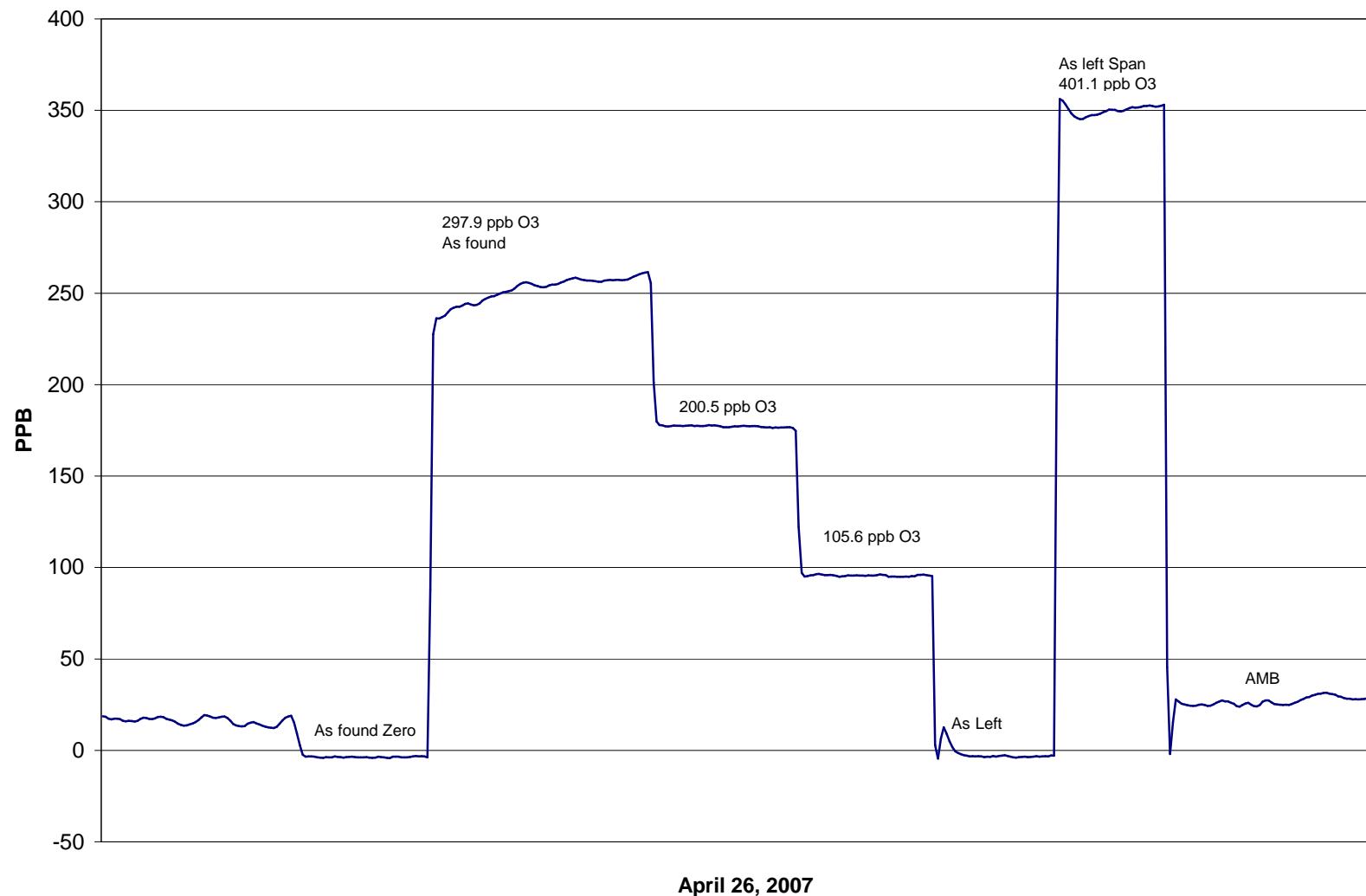
Palliser Airshed**Station Information**

Calibration Date	April 26, 2007	Previous Calibration	March 29, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	7:30	End Time (MST)	10:24
Analyzer make/model	API Model 400E	Analyzer serial #	331

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
297.9	256.6	1.1611	Correlation Coefficient	0.998895
200.5	177.2	1.1316		
105.6	95.5	1.1054		
0.0	-3.7	N/A		
			Slope	1.144083
			Intercept	0.679030

O3 Calibration Curve

O3 Calibration - April 26

Calibration Report

Parameter NOx-NO-NO₂
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	April 25, 2007			Previous Calibration	March 29, 2007
Station Number	101			Station Location	Crescent Heights
Reason:	Routine			Installation	Removal
Start Time (MST)	13:30			End Time (MST)	19:22
Barometric Pressure	27.3	inches Hg		Station Temperature	22.0 Deg C
Calibrator	Environics 6100			Serial Number	3474
NO Cal Gas Conc	49.9	ppm		Cal Gas Expiry Date	5-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 0.055699	1.003130 -1.671455	1.003459 -0.077559
After	Data Slope 1.578695	1.005495 3.038605	1.006425 3.338809
Channel #	8	6	7
Voltage Range	0 - 1 VDC	0 - 1 VDC	0 - 1 VDC

Analyzer Information

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

Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO background	0.3	mV	0.3	mV
NOx background	1.7	mV	1.7	mV
NO coefficient	1.938		2.045	
NOx coefficient	1.941		2.093	
Chamber Temp	50.0	Deg C	50.0	Deg C
Cooler Temp	7.1	Deg C	7.1	Deg C
Azero	41.3		41.5	
Perm Temp	40.0	Deg C	40.0	Deg C
Pressure	4.1	inches Hg	4.1	inches Hg
Sample Flow	464.0	ccm	455.0	ccm

Notes: Span was adjusted. Noticed several strange things happenning. First 3 points dropped over time.
GPT also behaved strange. After talking to Kelly, we decided this was caused by the regulator which has stainless steel body, but chromed/brass pieces, or the O3 generator on the calibrator.

Calibration Report

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



Station Information

Calibration Date: **April 25, 2007** Station Location: **Crescent Heights**

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NOx Correction factor	NO Correction factor
zero	4988	0.00	0.0	0.0	0.0	-2.8	-2.7	-2.1	N/A	N/A
	4988	39.84	395.4	395.4	0.0	389.8	389.4	-1.1	1.0143	1.0153
	4988	19.91	198.4	198.4	0.0	194.4	193.1	-0.7	1.0205	1.0276
	4988	9.94	99.2	99.2	0.0	95.1	94.6	-1.5	1.0430	1.0484
AFZ	4988	0.00	0.0	0.0	0.0	-2.8	-2.7	-2.1	0.0000	0.0000
AFS	4988	39.84	395.4	395.4	0.0	363.6	372.4	-10.4	1.0876	1.0619
								Average Correction Factor	1.0259	1.0304

As Found Concentrations NO_x= 364.8 NO= 375.0 As Found Percent Change NO_x= -7.8% NO= -5.2%

GPT Calibration Data

Dilution Flow **4988** ccm Source Gas Flow **39.84** ccm

O ₃ Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NOx Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	394.1	390.7	3.5	388.6	384.4	-2.1	N/A	N/A	N/A	N/A
300	397.0	301.1	95.9	391.5	295.5	94.3	1.0142	1.0190	1.0169	98.3%
200	398.1	227.8	170.3	392.6	222.8	168.3	1.0142	1.0226	1.0121	98.8%
100	399.2	115.0	284.2	393.6	110.8	280.6	1.0141	1.0378	1.0127	98.7%
						Average Correction Factor	1.0142	1.0265	1.0139	98.6%

AIC Data

Parameter	Previous calibration				Current calibration				ppb
	NOx	NO ₂	NO		NOx	NO ₂	NO		
	Auto zero	0.2	0.6	-0.3	ppb	0.8	-0.9	1.3	
Auto span	468.6	460.9	8.2	ppb	494.6	483.9	10.7	ppb	

Calibration Performed By: Travis Mehrer

Calibration Summary

Parameter **NO₂**
 Air Monitoring Network **Palliser Airshed**



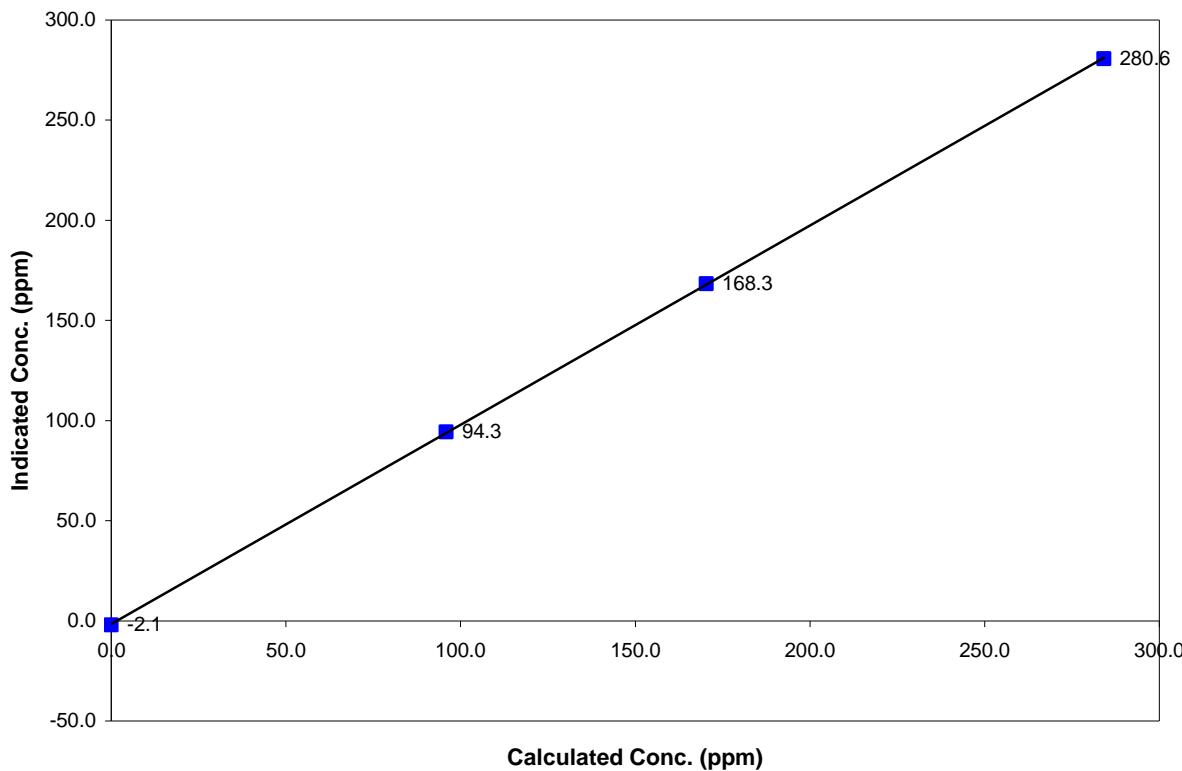
Station Information

Calibration Date	April 25, 2007	Previous Calibration	March 29, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	13:30	End Time (MST)	19:22
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	-2.1	0.0000		
95.9	94.3	1.0169	Correlation Coefficient	0.999978
170.3	168.3	1.0121	Slope	1.005495
284.2	280.6	1.0127	Intercept	1.578695

NO₂ Calibration Curve



Calibration Summary

Parameter **NO_x**
 Air Monitoring Network **Palliser Airshed**



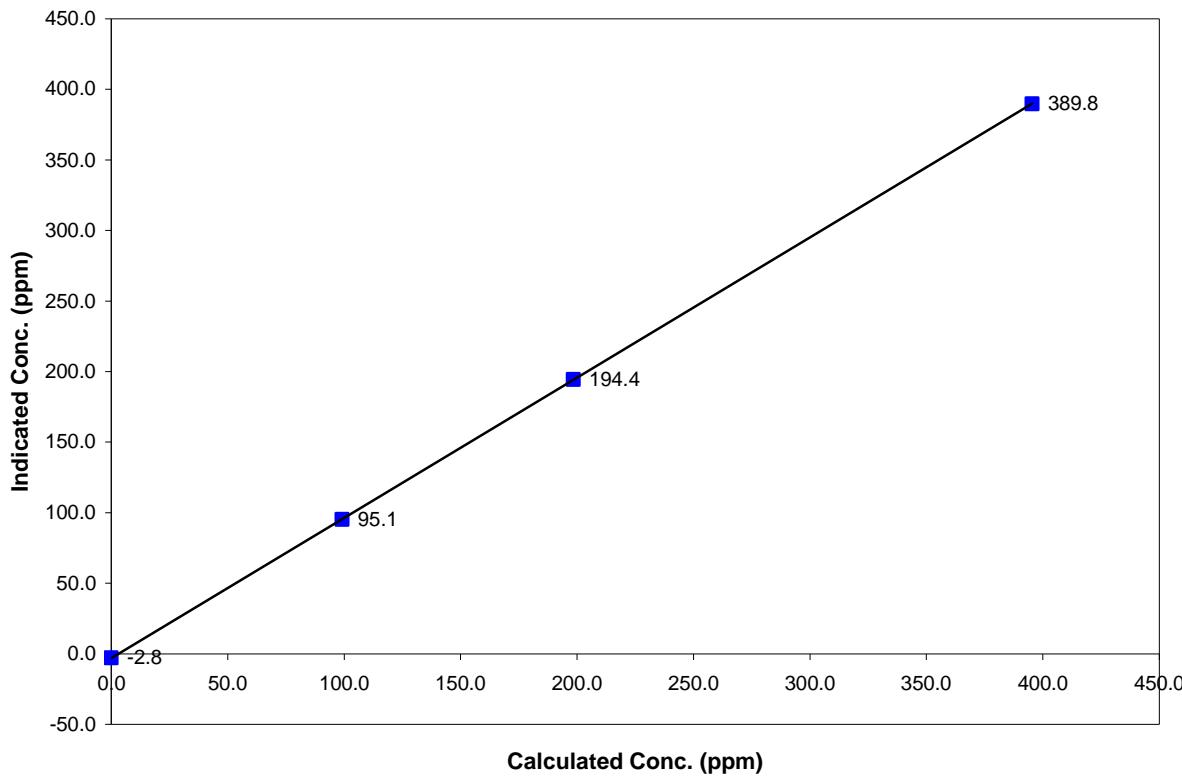
Station Information

Calibration Date	April 25, 2007	Previous Calibration	March 29, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	13:30	End Time (MST)	19:22
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	-2.8	0.0000	Correlation Coefficient	0.999996
395.4	389.8	1.0143		
198.4	194.4	1.0205		
99.2	95.1	1.0430		
			Slope	1.006425
			Intercept	3.038605

NOx Calibration Curve



Calibration Summary

Parameter **NO**

Air Monitoring Network **Palliser Airshed**



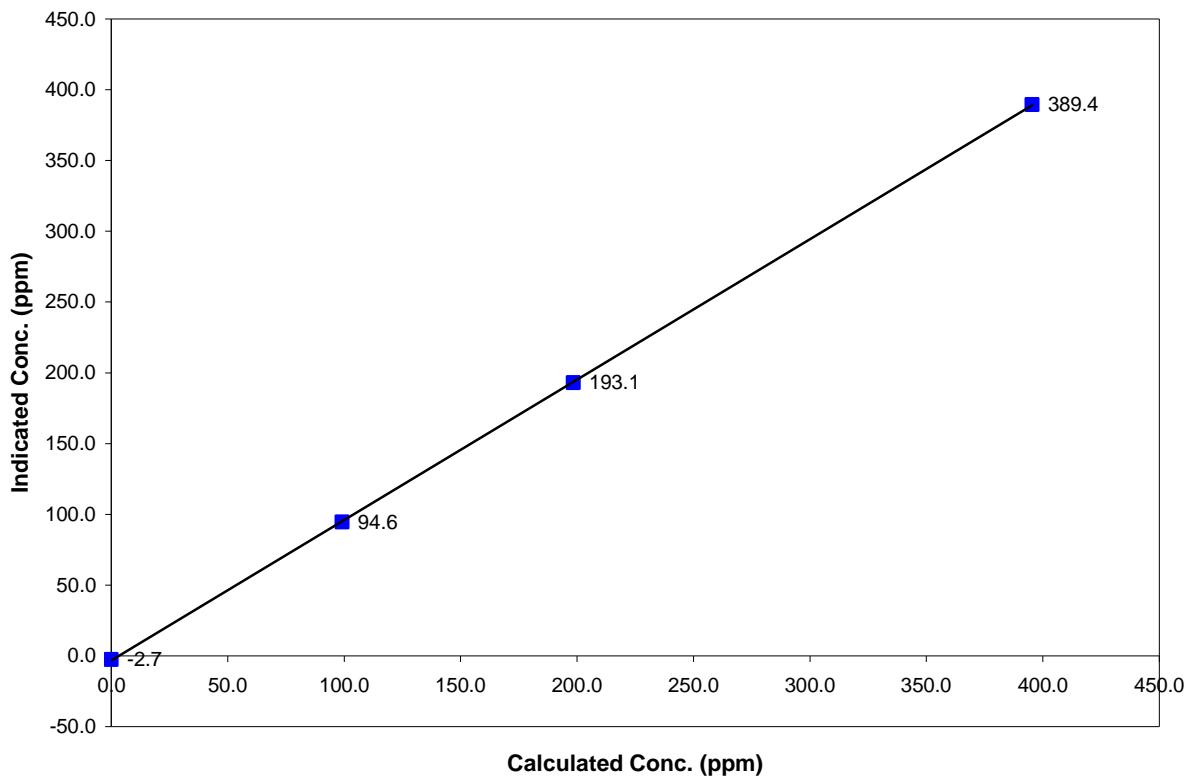
Station Information

Calibration Date	April 25, 2007	Previous Calibration	March 29, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	13:30	End Time (MST)	19:22
Analyzer make	API Model 200E	Analyzer serial #	219

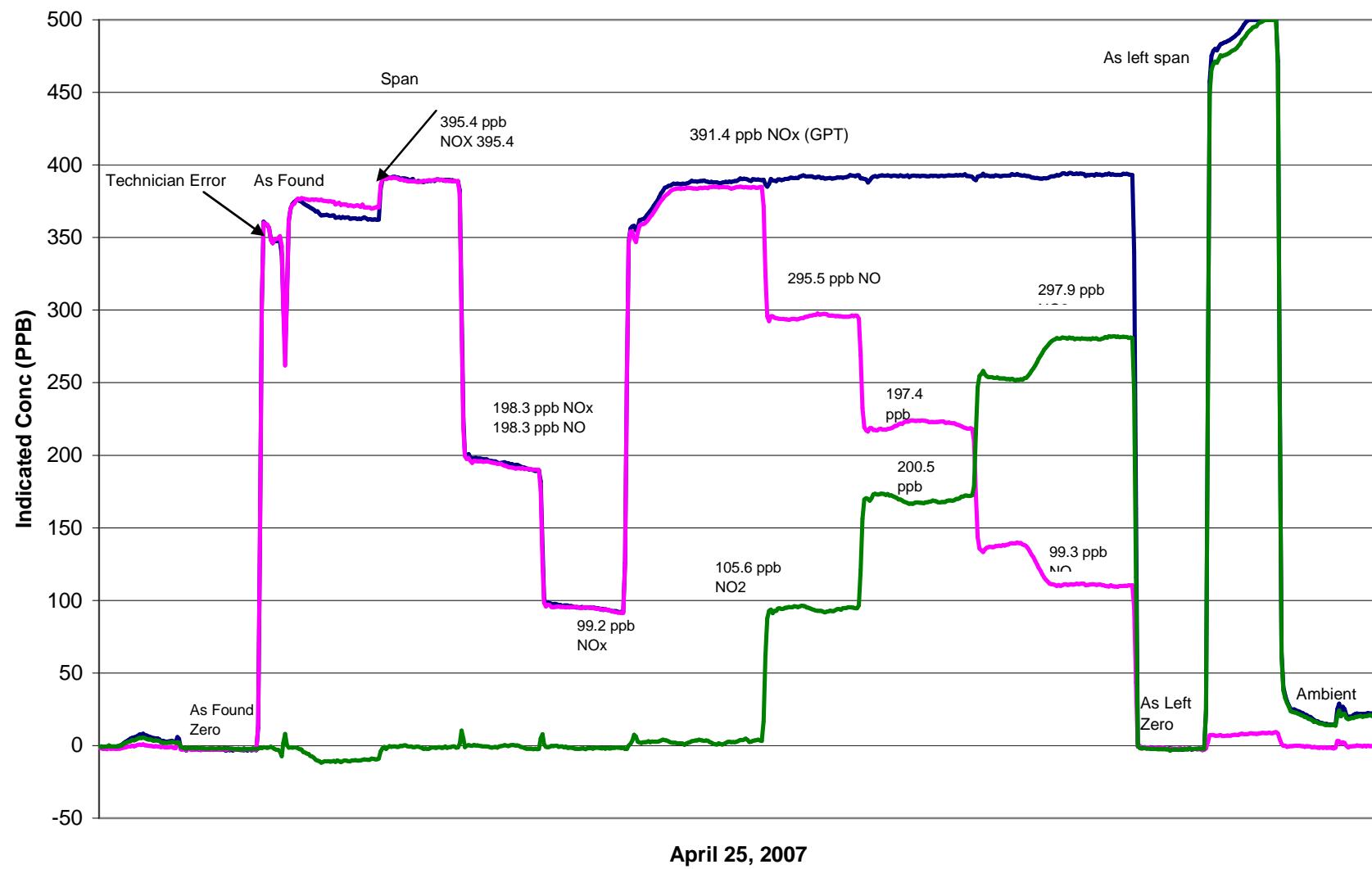
Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-2.7	N/A	Correlation Coefficient	0.999987
395.4	389.4	1.0153		
198.4	193.1	1.0276		
99.2	94.6	1.0484		
			Slope	1.007662
			Intercept	3.338809

NO Calibration Curve



NO_x - NO - NO₂ Calibration



Calibration Report

Parameter THC
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	April 26, 2007	Previous Calibration	March 28, 2007
Station Number	101	Station Location	Crescent Heights
Reason:	Routine	Install	Removal
			Other:
Start Time (MST)	9:23	End Time (MST)	12:07
Barometric Pressure	27.3 inches Hg	Station Temperature	22.0 Deg C
Calibrator	Environics 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 CH4 equiv	1527.75 ppm	Cal Gas Cylinder #	ALM030358
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
Calculated slope	0.994388	Calculated slope	0.989355
Calculated intercept	-0.154165	Calculated intercept	0.102238
Analyzer make	TEI model 51C-LT	Analyzer serial #	407505596
	before		after
Concentration range	0 - 50	ppm	0 - 50
THC sample pressure	5.75	PSI	5.75
THC span counts	12605	raw	12605
THC zero counts	1370	raw	1370
V Bias	-326	Volts	-326

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)
4988	0.00	0.00	-0.08	N/A
4988	79.73	24.04	24.23	0.9918
4988	39.84	12.10	12.04	1.0055
4988	9.94	3.04	2.99	1.0141
zero	0.00	0.00	-0.08	As Found Zero
4988	79.77	24.05	24.23	As Found Span
	Average Correction Factor			1.0038

Calculated value of As Found Response: 24.025 ppm Percent Change of As Found: 0.1%

Auto zero	before calibration		after calibration	
	0.07	ppm	-0.01	ppm
	20.82	ppm	20.92	ppm

Notes:

Calibration Performed By: Travis Mehrer

Calibration Summary

Parameter THC
 Air Monitoring Network Palliser Airshed

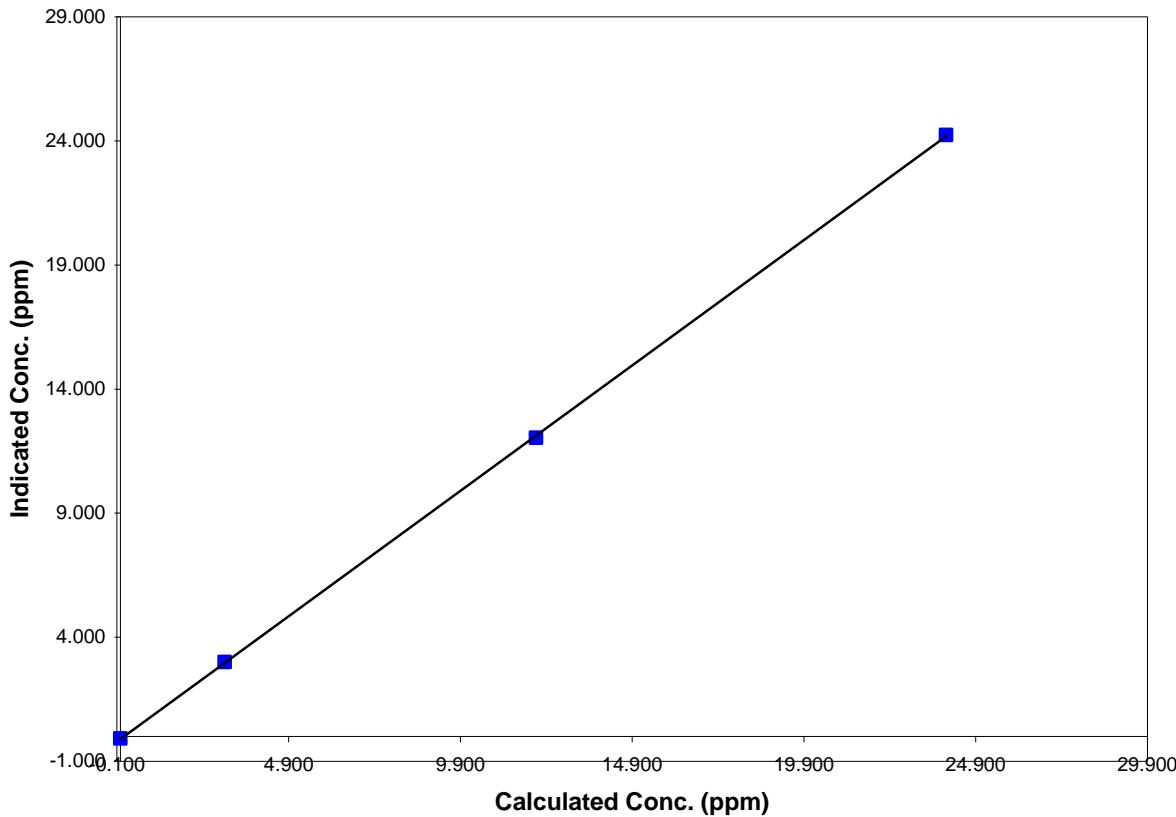


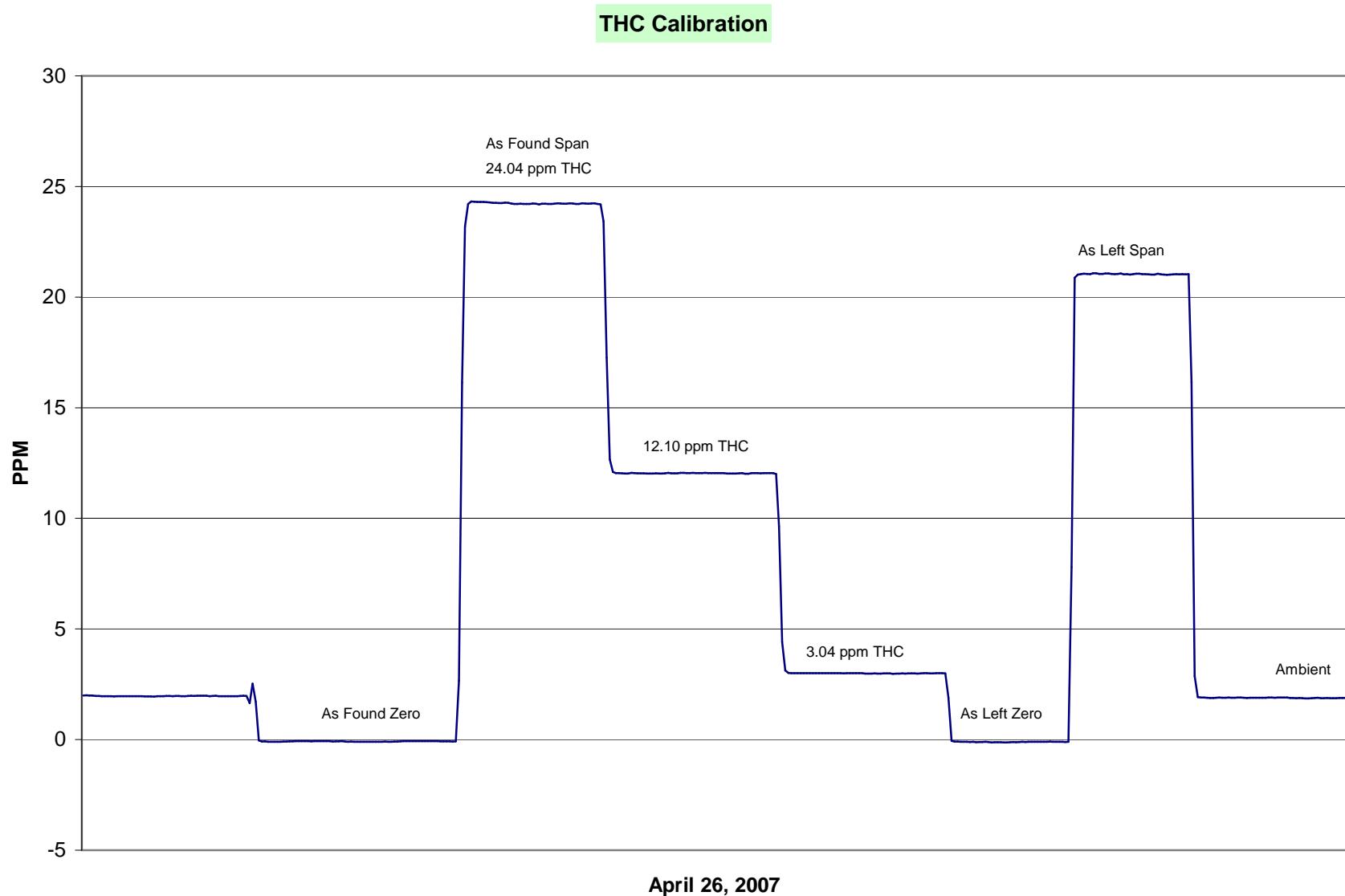
Station Information			
Calibration Date	April 26, 2007	Previous Calibration	March 28, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	9:23	End Time (MST)	12:07
Analyzer make/model	TEI model 51C-LT	Analyzer serial #	407505596

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.082	N/A		
24.037	24.234	0.9918	Correlation Coefficient	0.999967
12.105	12.039	1.0055		
3.037	2.995	1.0141	Slope	0.989355
			Intercept	0.102238

THC Calibration Curve





Calibration Report



Parameter CO

Air Monitoring Network Palliser

Station Information

Calibration Date	April 26, 2007	Previous Calibration	March 28, 2007
Station Number	101	Station Location	Crescent Heights
Reason:	Routine	Install	Removal
			Other:
Start Time (MST)	11:20	End Time (MST)	10:05
Barometric Pressure	27.32 in Hg	Station Temperature	22.0 Deg C
Calibrator	Environics 6100	Serial Number	3474
Cal Gas Conc	2998 ppm	Cal Gas Expiry Date	3/14/2008
DACS make	Focus AP1000	Cal Gas Cylinder #	BLM002248
DACS voltage range	0 - 1 volt	DACS serial No.	45270
	Before	DACS channel #	11
Calculated slope	1.002882	Calculated slope	0.999723
Calculated intercept	-0.043852	Calculated intercept	-0.217297
Analyzer make	TEI Model 48C	Analyzer serial #	436609887
Concentration range	before	after	
CO coefficient	0 - 50	ppm	0 - 50
CO bkg setting	1.080		1.080
Lamp ratio	0.677		0.677
Lamp intensity	1.143362		1.143362
Sample Flow	199510 Hz		199510 Hz
	1.015 LPM		1.015 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)
4989	0.00	0.00	0.14	N/A
4989	49.83	29.65	29.84	0.9934
4989	19.91	11.92	12.17	0.9791
4989	9.93	5.95	6.24	0.9540
4989	0.00	0.00	0.14	0.0000
4989	49.87	29.67	29.84	0.9941
Average Correction Factor				0.9755

Calculated value of As Found Response:

29.742 ppm

Percent Change of As Found: -0.2%

Auto zero	before calibration		after calibration	
	-0.06	ppm	-0.04	ppm
	20.65	ppm	20.81	ppm

Notes: No adjustments made.

Calibration Performed By: Travis Mehrer

Calibration Summary

Parameter CO
Air Monitoring Network Palliser

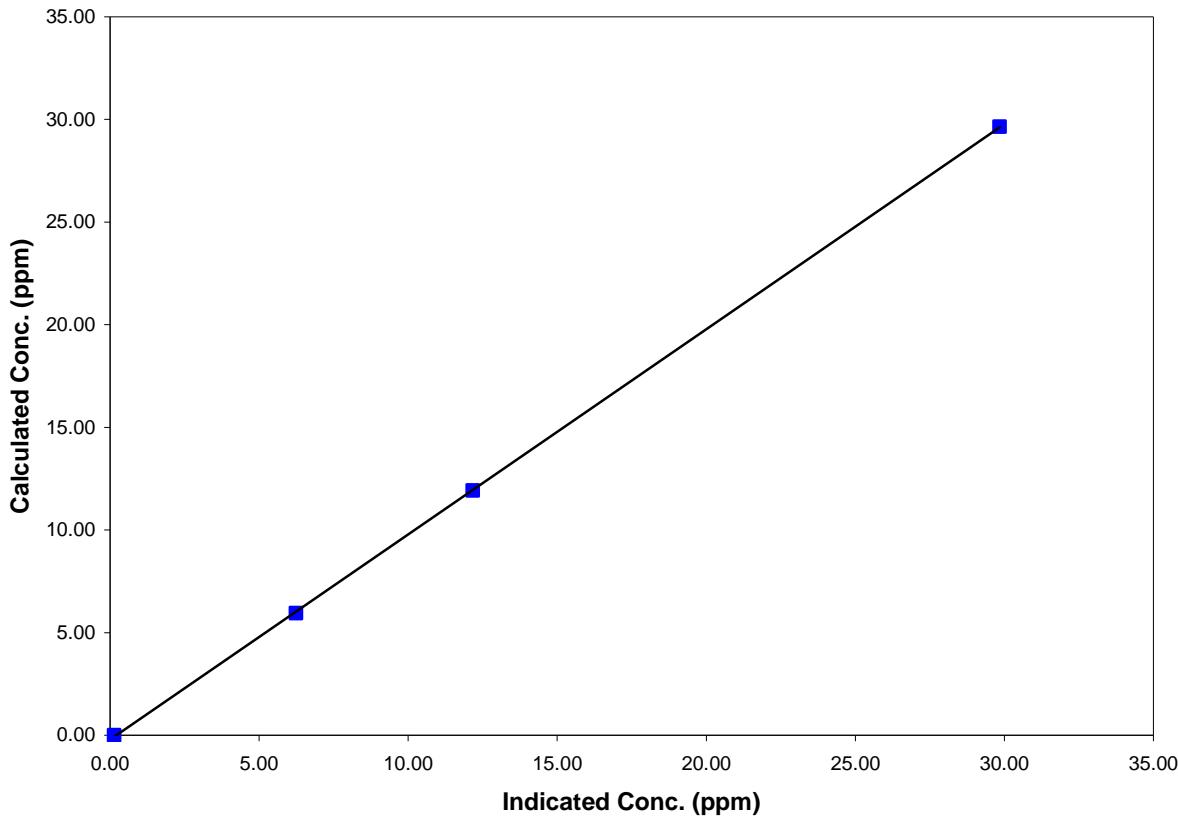


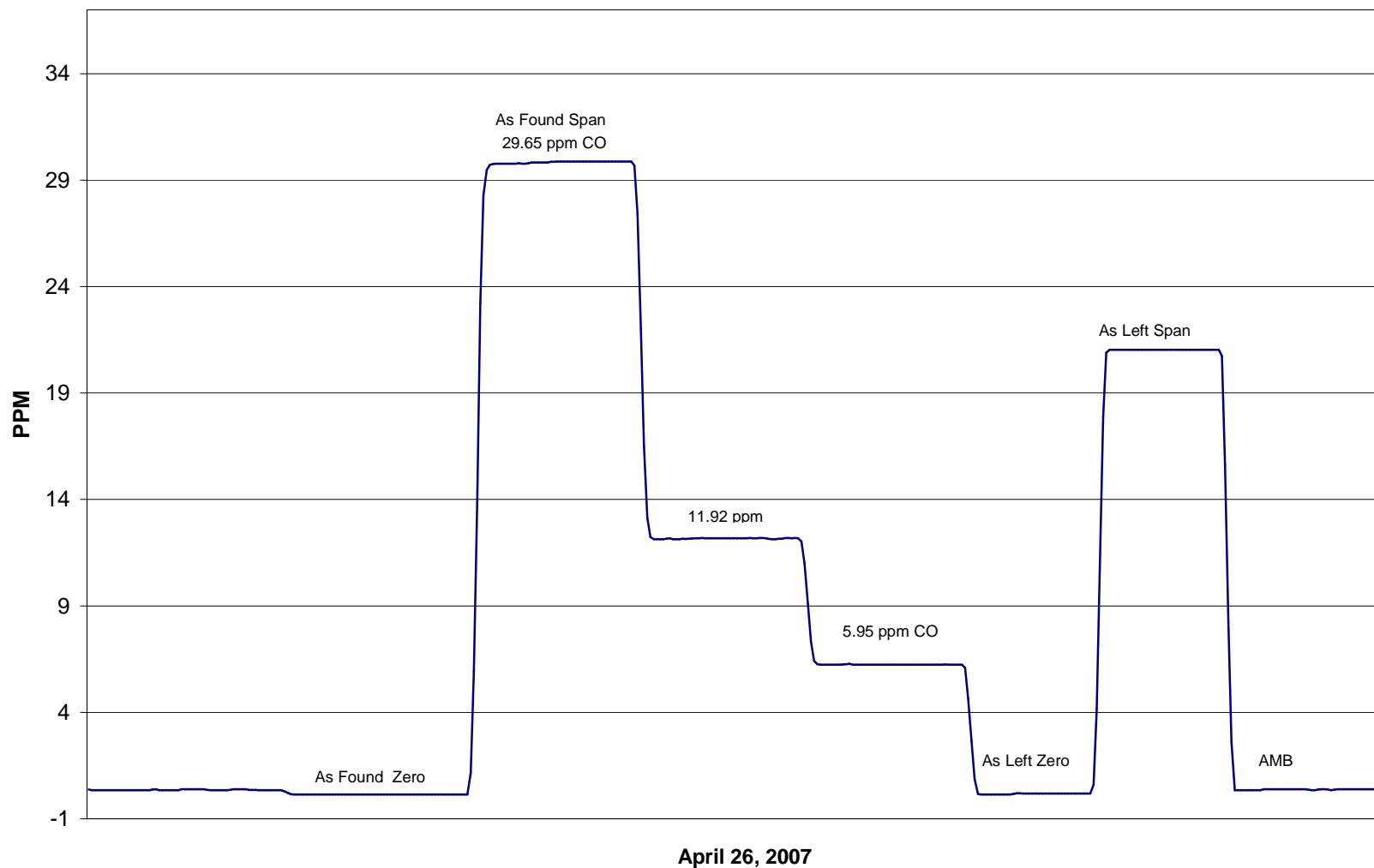
Station Information			
Calibration Date	April 26, 2007	Previous Calibration	March 28, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	11:20	End Time (MST)	10:05
Analyzer make/model	TEI Model 48C	Analyzer serial #	436609887

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.00	0.14	N/A		
29.65	29.84	0.9934	Correlation Coefficient	0.999976
11.92	12.17	0.9791	Slope	0.999723
5.95	6.24	0.9540	Intercept	-0.217297

CO Calibration Curve



CO Calibration

Calibration Report

Parameter

PM2.5

Air Monitoring Network

Palliser Airshed



Station Information

Calibration Date	April 26, 2007	Previous Calibration	March 29, 2007
Station Number	1	Station Location	Crescent Heights
Reason:	Routine	Install	Removal
			Other:
Start Time (MST)	8:52	End Time (MST)	15:20
Barometric Pressure	0.913 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15
	Before		After
DACS Scale High	450	DACS slope	450
DACS Scale Low	-50	DACS intercept	-50

Analyzer Information

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

	before		after
Main Flow Set Point	3.000	SLPM	2.990
Aux Flow Set Point	13.66	SLPM	13.65
Filter Load	38%	%	18%
Ko Factor	NA		NA
Temperature	12.1	Deg C	12.1
Pressure	0.914	ATM	0.914

Calibration Data

Parameter	Set Point	TEOM Reading (as found)	Tolerance	TEOM Reading (after adjustments)
zero flow - main	0.0	0.01	0.00	0.00
zero flow - auxillary	0.0	0.00	0.01	0.00
flow recovery - main	45 - 60 Seconds	35.0	45 - 60 Seconds	35.0
flow recovery - aux	46 - 60 Seconds	40.0	46 - 60 Seconds	41.0
Temperature	measured	18.1	+/- 1.0 Deg C	18.1
Pressure	measured	0.914	+/- 1.5% ΔATM	0.914
Total Flow	16.67 SLPM	16.31		15.94
Auxiliary flow	13.67 SLPM	13.40	+/- 1.0 SLPM	13.10
Main flow	3.0 SLPM	3.097	+/- 0.2 SLPM	3.020
Leak Check - main	0.0	0.00	<0.15 SLPM	0.01
Leak Check - aux	0.0	-0.01	<0.15 SLPM	-0.01
Ko Factor (w/o filter)	measured	NA	filter weight (g)	NA
Ko Factor (w/ filter)	measured	NA	% Ko difference	NA

Notes: Auxiliary flow was adjusted...

Calibration Performed By: Travis Mehrer