



Palliser Airshed Society

Ambient Air Monitoring Network Summary

November 2006

Prepared By:
FOCUS
AIR QUALITY MONITORING

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December 13, 2006

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 – November 2006

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

Please note that this report has been prepared in partial fulfillment of the City of Medicine Hat's air monitoring requirement as well as all members of the Palliser Airshed Society.

Continuous Monitoring – Crescent Heights

Included in this report are; monthly sampling table, detailed hourly average reports and multipoint calibration reports of all instruments. The measured ambient air quality was within the Provincial and Federal guidelines with no exceedences recorded. Operational uptime of all instruments was 90% or greater for the month of November. There were no significant events leading to emergency response for the month of November.

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

- Monthly average concentrations of NO₂ was 8.1 ppb
- Monthly average concentrations for O₃ was 20.0 ppb
- Monthly average concentrations for CO was 0.2 ppm
- Monthly average concentrations for THC was 2.1 ppm
- Monthly average concentrations for PM_{2.5} was 2.7 µg/m³

The Air Quality Index (AQI) recorded 682 hours of 'Good' readings for the month of November.

Passive Monitoring – Six Sites throughout the PAS zone:

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

- ◆ Monthly average concentrations for SO₂ passives were all ≤0.5 ppb.
- ◆ Monthly average concentrations for NO₂ passives ranged from 3.7 ppb to 8.2 ppb
- ◆ Monthly average concentrations for O₃ passives ranged from 20.2 ppb to 27.1 ppb

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

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Continuous Monitoring

Ambient Air Monitoring Network

Crescent Heights Station

General Station Issues

Calibrations were performed on November 21st (NO_x, THC, and CO) and 22nd (O₃ and TEOM). There were no outstanding issues for the month of November.

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



November 2006 Monthly Overall Summary Report Ambient Air Quality Data

Nov-2006		Palliser Airshed Society					Maximum Recorded Values						Operational Time (%)
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		1-hr			24-hr / 8-hr			
	1-hr	24-hr			1-hr	24-hr	Conc	Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	
NO (ppb)			Crescent Heights	5.2	-	-	96.4	Nov-18 18:00	3.7	SSE	14.9	Nov-18	100.0%
NO ₂ (ppb)	212	106	Crescent Heights	8.1	0	0	38.6	Nov-18 18:00	3.7	SSE	15.9	Nov-29	100.0%
NO _x (ppb)			Crescent Heights	13.1	-	-	134.6	Nov-18 18:00	3.7	SSE	27.6	Nov-14	100.0%
O ₃ (ppb)	82		Crescent Heights	20.0	0	-	38.4	Nov-21 22:00	30.2	SW	31.5	Nov-30	100.0%
O ₃ (ppb) - 8-hr	65		Crescent Heights		0						36.5	Nov-19	
CO (ppm)	13		Crescent Heights	0.17	0	-	1.0	Nov-18 19:00	6.2	SSE	0.3	Nov-07	100.0%
CO (ppm) - 8-hr	5		Crescent Heights		0						0.6	Nov-07	
THC (ppm)			Crescent Heights	2.09	-	-	2.9	Nov-07 17:00	3.7	ENE	2.4	Nov-06	100.0%
PM _{2.5} (µg/m ³)		30 ^a	Crescent Heights	2.7		0	19.4	Nov-02 08:00	3.3	ENE	9.0	Nov-14	99.6%
RH (%)			Crescent Heights	63.3	-	-	-	-	-	-	-	-	100.0%
SR (W/m ²)			Crescent Heights	50.0	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Crescent Heights	-2.5	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)			Crescent Heights	5.8	-	-	39.2	Nov-16 05:00	39.2	SW	24.3	15-Nov	100.0%
WSPD s (km/hr)			Crescent Heights	13.5	-	-	39.4	Nov-16 05:00	39.4	SW	24.5	15-Nov	100.0%
WDIR			Crescent Heights	WSW	-	-	-	-	-	-	-	-	100.0%

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



PAS - Crescent Heights

Monthly Summary Tables, Graphs, and Roses



PAS - Crescent Heights - AQI Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

Air Quality Index (AQI)

Monitoring Dates: November 1, 2006 to December 1, 2006

Alberta's Air Quality Index

Good	1 to 25
Fair	26 to 50
Poor	51 to 100
Very Poor	> 100

Summary

Number of 1-hr Good Readings:	682
Number of 1-hr Fair Readings:	0
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

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



PAS - Crescent Heights - Nitrogen Dioxide Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

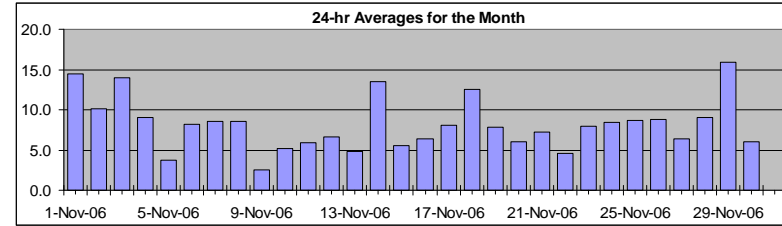
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: November 1, 2006 to December 1, 2006

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

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	38.6	ppb	18-Nov	18:00 19:00
Maximum 24-hr Average:	15.9	ppb	29-Nov	



AIC Time:	32 hrs	Operational Time:	683 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	28.8	22.2	10.4	6.3	3.5	1.8	1.1	8.1 ppb	6.3 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Nov-06	6	7	8	9	9	13	A	26	20	13	12	6	5	4	4	5	9	21	25	26	25	25	27	27	14.5	27.2	
2-Nov-06	22	23	23	21	23	A	25	24	22	6	5	3	2	1	1	1	1	2	3	3	3	7	8	3	10.1	25.0	
3-Nov-06	3	5	4	7	A	7	13	25	19	8	7	13	16	17	9	12	20	22	19	22	20	19	18	17	14.0	24.9	
4-Nov-06	11	11	5	A	17	12	12	13	10	8	7	5	6	8	10	9	8	18	19	6	2	4	2	2	9.0	18.8	
5-Nov-06	2	3	A	4	3	3	2	2	3	6	2	3	2	2	3	3	10	4	2	3	5	7	7	6	3.8	10.4	
6-Nov-06	6	A	10	9	9	8	9	10	9	8	8	6	5	4	6	9	13	14	10	8	8	11	4	4	8.2	13.6	
7-Nov-06	A	4	7	3	5	3	3	4	6	7	6	11	6	9	12	12	13	16	14	14	17	9	6	A	8.6	17.2	
8-Nov-06	5	12	10	8	13	12	15	17	13	12	10	10	8	6	6	4	5	6	6	6	4	4	A	4	8.6	17.2	
9-Nov-06	3	3	2	4	3	3	2	2	3	2	2	2	2	2	2	2	2	3	3	2	2	A	4	3	2.5	3.9	
10-Nov-06	3	4	3	3	3	3	7	6	13	9	7	3	3	3	4	5	10	10	4	3	A	5	4	3	5.2	12.8	
11-Nov-06	3	3	2	2	2	2	2	5	12	6	6	6	6	4	6	7	6	6	9	A	11	9	11	11	5.9	12.0	
12-Nov-06	11	10	10	10	7	7	12	13	12	7	4	2	2	3	3	6	7	6	A	6	5	3	3	3	6.6	13.2	
13-Nov-06	3	6	5	2	3	3	3	4	4	3	3	4	5	3	3	3	5	A	5	9	11	9	8	6	4.8	11.1	
14-Nov-06	7	14	14	12	10	10	12	13	9	5	7	5	5	4	5	8	A	28	27	22	24	25	22	21	13.5	28.2	
15-Nov-06	21	15	4	8	11	5	6	7	7	5	2	2	3	3	3	A	6	5	3	4	2	2	2	1	5.5	21.2	
16-Nov-06	1	1	1	1	2	2	3	4	3	8	2	3	2	5	A	8	10	7	11	21	19	17	10	6	6.4	21.4	
17-Nov-06	4	4	2	2	3	9	8	12	12	6	5	4	3	A	6	7	21	18	14	14	7	10	7	7	8.0	21.1	
18-Nov-06	6	4	3	8	6	4	8	5	4	5	6	5	A	8	7	8	13	27	39	33	24	20	21	21	12.5	38.6	
19-Nov-06	23	21	28	21	21	10	11	3	2	2	2	A	4	3	2	3	3	3	4	3	3	3	2	2	7.8	28.1	
20-Nov-06	2	1	2	1	2	3	5	8	13	8	A	22	13	6	4	4	11	5	5	5	6	6	3	3	6.0	22.3	
21-Nov-06	4	3	4	4	3	4	13	19	22	C	C	C	C	C	A	10	9	8	10	6	3	7	1	1	7.2	21.6	
22-Nov-06	1	8	A	8	6	7	7	6	7	4	4	2	2	4	3	4	6	7	4	4	3	2	2	2	4.6	8.4	
23-Nov-06	2	3	A	8	9	7	11	14	11	4	4	4	5	6	9	10	9	8	10	11	7	12	11	10	8.0	13.5	
24-Nov-06	10	9	A	14	11	10	8	10	10	9	7	6	6	7	10	11	9	12	7	7	6	5	5	7	8.5	13.8	
25-Nov-06	8	A	9	11	13	17	17	20	12	8	4	2	2	3	5	4	5	4	4	6	12	14	11	9	8.6	20.1	
26-Nov-06	A	11	3	3	4	11	24	22	20	17	11	13	12	6	5	5	4	5	5	3	3	2	1	A	8.7	24.3	
27-Nov-06	3	2	2	3	4	6	9	9	8	6	7	6	5	4	6	9	8	12	9	7	6	5	A	10	6.4	11.9	
28-Nov-06	8	7	6	6	5	5	7	7	8	9	10	8	8	8	9	10	12	12	10	12	13	A	18	8	9.0	17.6	
29-Nov-06	13	13	9	13	9	7	8	16	19	10	6	5	5	4	5	18	30	32	32	33	A	29	30	19	15.9	33.0	
30-Nov-06	8	3	2	1	1	2	4	4	5	3	5	5	6	12	11	10	11	12	13	A	7	6	3	3	6.0	13.1	
Hourly Avg	7.0	7.4	6.9	7.1	7.6	6.8	9.3	11.0	10.7	7.1	5.7	5.9	5.2	5.4	5.7	7.1	9.5	11.4	11.3	10.7	9.3	9.9	9.0	7.9			
Hourly Max	23.2	22.7	28.1	21.4	23.4	17.0	25.0	25.9	22.4	16.8	12.1	22.3	15.5	16.5	12.1	18.0	29.8	31.8	38.6	33.4	24.8	28.6	29.7	27.1			

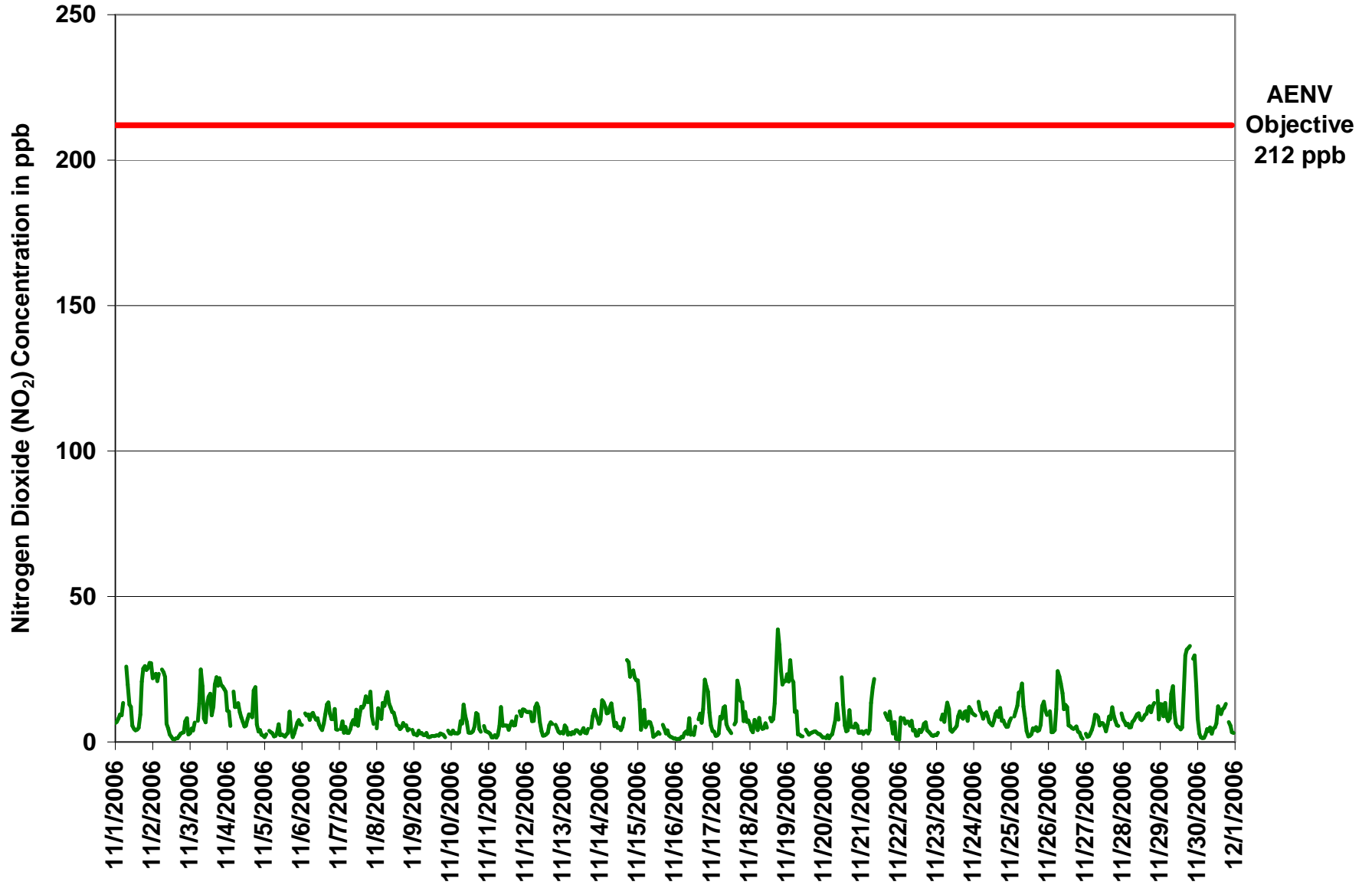


Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

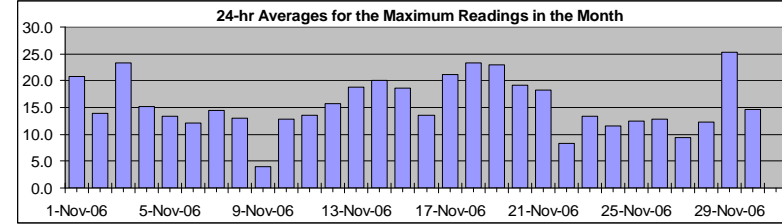
Nitrogen Dioxide (NO₂)

Monitoring Dates: November 1, 2006 to December 1, 2006

Summary

Maximum 1-hr Value:	78.7	ppb	29-Nov	22:00 23:00
Maximum 24-hr Value:	25.2	ppb	29-Nov	

AIC Time:	32 hrs	Operational Time:	683 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	48.0	36.7	21.1	12.4	7.2	3.4	2.3	15.6 ppb	12.4 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Nov-06	11	11	13	12	15	21	A	30	26	44	18	8	6	5	6	7	31	28	31	31	31	31	31	31	20.9	44.2
2-Nov-06	28	27	28	23	32	A	31	32	32	11	6	4	3	2	2	2	3	7	5	5	16	17	4	14.0	32.1	
3-Nov-06	6	7	5	11	A	16	22	37	39	14	9	28	19	48	35	28	31	35	26	32	22	21	26	21	23.3	47.7
4-Nov-06	13	12	10	A	19	18	20	16	13	16	10	7	8	16	11	12	11	21	32	29	12	29	3	13	15.1	31.8
5-Nov-06	3	45	A	7	22	25	3	3	13	13	6	18	5	3	4	5	23	10	3	23	15	23	28	8	13.4	45.0
6-Nov-06	7	A	11	11	11	9	11	15	13	10	12	11	7	6	16	12	20	15	14	9	10	31	11	6	12.1	31.2
7-Nov-06	A	7	15	13	13	12	5	7	12	11	9	21	7	11	18	23	25	20	16	17	26	17	12	A	14.5	26.3
8-Nov-06	10	15	18	10	19	19	23	23	21	14	14	12	13	7	13	9	13	9	9	8	7	6	A	8	13.1	23.4
9-Nov-06	4	4	4	6	6	5	4	4	5	3	3	3	3	4	4	5	3	4	4	3	3	A	7	4	4.0	6.5
10-Nov-06	4	5	4	4	4	5	13	8	17	12	12	12	6	27	20	22	25	17	22	17	A	25	10	4	12.8	27.0
11-Nov-06	12	42	12	8	36	2	4	15	35	14	8	8	7	6	10	9	7	8	14	A	14	13	14	15	13.6	42.0
12-Nov-06	15	14	12	12	12	10	24	16	16	35	6	11	15	13	5	24	10	10	A	26	25	19	10	20	15.7	34.8
13-Nov-06	18	65	47	5	32	18	26	4	11	6	8	13	27	32	25	5	19	A	7	18	15	14	9	9	18.8	64.7
14-Nov-06	12	16	16	14	12	13	14	15	13	7	9	8	8	7	8	11	A	46	44	28	28	69	34	31	20.1	68.6
15-Nov-06	51	44	8	12	15	24	10	10	44	18	12	4	4	70	4	A	10	27	4	32	15	3	2	2	18.6	70.5
16-Nov-06	10	2	10	7	21	3	14	5	7	28	4	11	4	10	A	11	13	11	21	35	28	24	22	9	13.5	35.1
17-Nov-06	6	11	3	3	5	21	18	17	33	13	30	38	37	A	24	13	31	25	20	46	10	29	24	30	21.2	46.4
18-Nov-06	24	6	5	49	43	6	24	7	6	25	16	24	A	11	9	12	24	44	46	46	29	25	32	22	23.3	49.0
19-Nov-06	46	40	66	31	28	18	32	25	15	8	6	A	7	24	10	4	27	26	42	20	23	25	4	2	23.0	65.7
20-Nov-06	3	2	24	2	3	21	47	33	22	13	A	27	20	34	28	7	35	24	6	6	39	36	5	6	19.2	47.5
21-Nov-06	13	4	6	28	11	11	33	32	35	C	C	C	C	C	A	17	17	20	16	12	5	31	15	21	18.2	35.2
22-Nov-06	7	14	A	18	9	10	10	8	18	9	7	4	5	8	7	7	9	10	5	5	5	5	4	4	8.2	18.5
23-Nov-06	5	7	A	12	12	13	13	16	18	17	5	18	10	17	19	15	11	12	12	15	11	18	17	14	13.4	19.0
24-Nov-06	16	11	A	19	13	12	10	12	12	11	10	9	7	10	12	15	14	17	9	9	10	6	7	14	11.5	18.9
25-Nov-06	14	A	11	14	18	26	22	24	16	13	6	3	4	6	6	5	7	5	6	9	22	19	18	11	12.5	26.2
26-Nov-06	A	17	5	5	6	25	28	28	27	34	12	16	16	9	9	8	7	6	7	5	4	4	2	A	12.7	34.0
27-Nov-06	5	3	3	4	6	9	11	15	16	10	9	9	8	5	13	13	13	16	12	9	7	7	A	13	9.5	16.3
28-Nov-06	9	10	7	8	6	7	10	9	11	12	11	10	10	13	12	12	16	15	16	20	16	A	26	15	12.3	26.5
29-Nov-06	16	18	17	19	32	8	10	26	28	15	8	11	6	7	26	34	38	39	44	39	A	33	79	27	25.2	78.7
30-Nov-06	20	11	6	3	6	32	41	8	24	4	21	12	14	18	15	14	15	25	20	A	10	8	6	5	14.6	40.8
Hourly Avg	13.9	16.8	14.1	12.8	16.1	14.4	18.5	16.7	19.9	15.1	10.3	12.7	10.2	15.3	13.3	12.5	17.4	18.9	17.8	19.9	16.1	21.0	17.0	13.2		
Hourly Max	50.6	64.7	65.7	49.0	42.9	32.5	47.5	36.8	44.3	44.2	30.0	38.0	37.3	70.5	35.2	34.0	37.6	46.0	46.3	46.4	38.6	68.6	78.7	31.0		

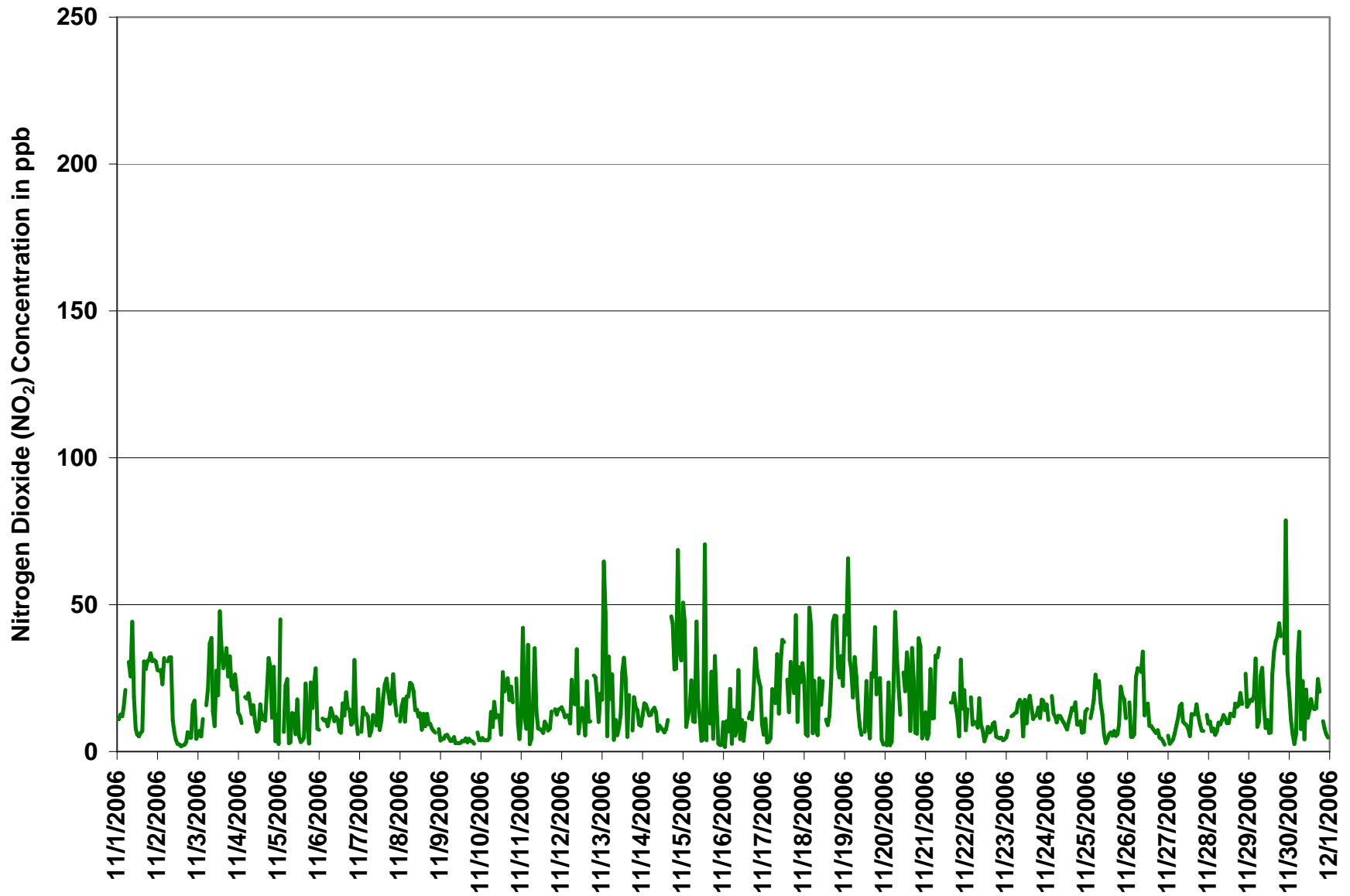
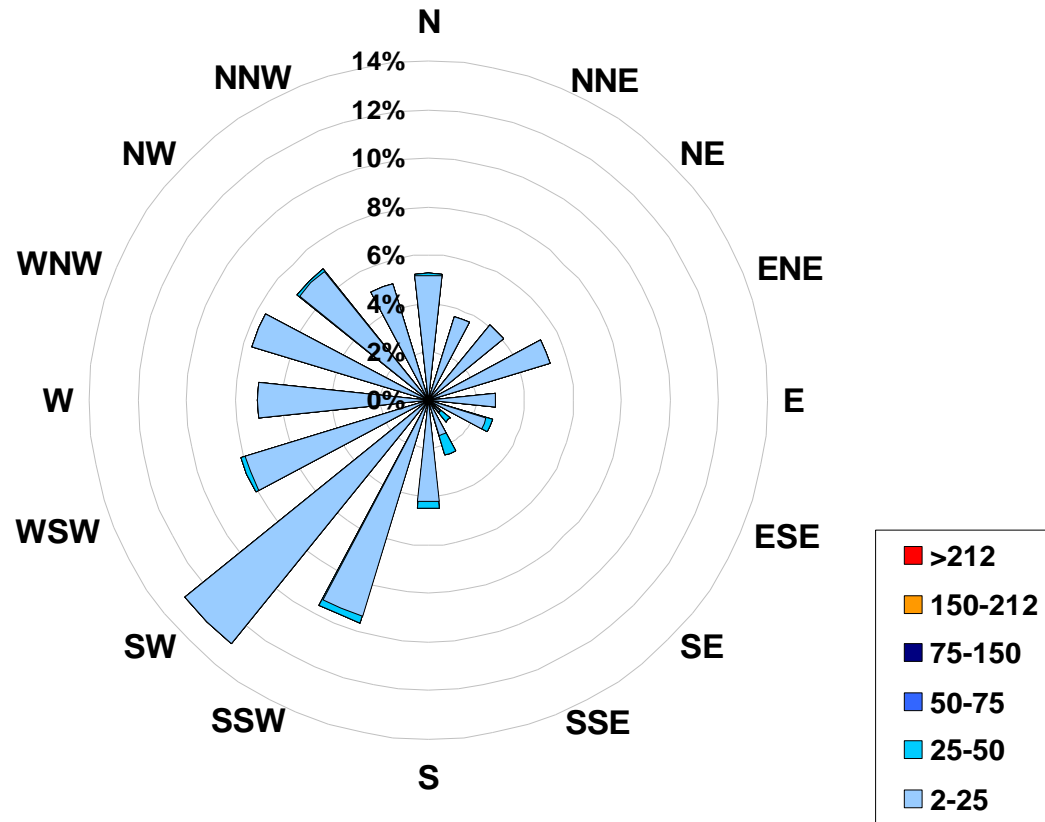


Figure 2. PAS - Crescent Heights Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		655
25	to 50		23
50	to 75		3
75	to 150		2
150	to 212		0
	> 212		0
Total Non-Zero Values			683



PAS - Crescent Heights - Nitric Oxide Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

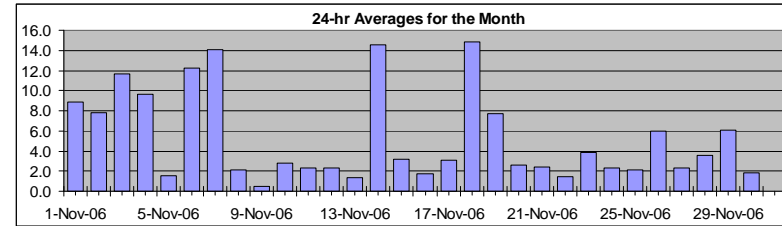
Nitric Oxide (NO)

Monitoring Dates: November 1, 2006 to December 1, 2006

Guideline Limit:
 Summary

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

Maximum 1-hr Average:	96.4	ppb	18-Nov	18:00 19:00
Maximum 24-hr Average:	14.9	ppb	18-Nov	



AIC Time:	32 hrs	Operational Time:	683 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%
Percentile	99	95	75
	44.6	21.8	4.5
	50	25	0.9
	5	0.3	0.1
	Average		Median
	5.2 ppb		2.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								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
1-Nov-06	0	0	0	1	1	2	A	21	19	14	13	4	3	3	3	2	4	4	7	11	17	11	33	30	8.9	32.6	
2-Nov-06	11	11	16	8	21	A	22	31	40	5	3	2	1	1	1	1	0	1	0	0	1	1	1	1	7.8	40.3	
3-Nov-06	1	1	0	1	A	1	1	21	18	7	7	18	16	18	8	10	13	19	14	34	18	16	17	11	11.7	33.6	
4-Nov-06	3	2	1	A	15	12	9	14	15	15	9	7	7	13	10	5	2	45	27	2	2	2	1	3	9.6	44.6	
5-Nov-06	0	1	A	1	2	1	1	1	4	2	1	2	1	1	2	1	3	1	1	1	1	3	2	2	1.5	3.9	
6-Nov-06	2	A	3	3	7	3	7	16	12	13	16	9	7	5	7	10	30	36	12	11	22	45	4	1	12.3	44.6	
7-Nov-06	A	1	5	2	4	3	2	3	5	5	4	10	6	13	34	32	36	48	15	33	40	7	1	A	14.1	48.3	
8-Nov-06	1	8	4	1	3	3	3	4	3	3	2	2	2	2	2	1	1	1	0	1	1	0	A	0	2.1	7.6	
9-Nov-06	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	1	0	1	0	0	0	A	0	0	0.5	1.2	
10-Nov-06	0	0	0	0	0	0	2	1	22	11	7	2	2	3	3	2	3	2	1	2	A	2	1	0	2.8	21.9	
11-Nov-06	1	2	1	1	2	0	1	1	5	3	4	6	6	3	3	3	2	1	3	A	2	1	2	2	2.4	6.5	
12-Nov-06	3	2	2	1	1	1	9	6	9	5	1	1	1	1	1	3	1	0	A	2	1	1	0	1	2.3	9.1	
13-Nov-06	1	4	2	0	2	0	1	0	1	1	1	2	3	3	2	1	2	A	1	1	1	1	1	1	1.4	3.7	
14-Nov-06	1	3	5	7	4	4	4	16	8	4	5	3	3	2	4	4	A	23	42	32	51	70	27	15	14.6	69.7	
15-Nov-06	36	10	0	1	1	2	2	2	5	3	1	1	1	2	1	A	1	1	0	2	2	1	0	0	3.2	35.8	
16-Nov-06	1	0	1	0	1	1	1	1	2	4	1	2	2	2	A	2	2	1	1	5	3	3	2	1	1.7	5.1	
17-Nov-06	1	1	0	1	1	5	4	2	7	3	3	4	3	A	3	1	4	2	3	9	1	4	2	5	3.1	9.3	
18-Nov-06	3	0	0	9	2	1	3	1	1	3	4	3	A	2	2	2	2	23	96	91	19	10	38	24	14.9	96.4	
19-Nov-06	39	24	63	14	12	1	5	1	1	1	1	A	1	2	1	1	1	2	4	1	1	1	0	0	7.7	62.9	
20-Nov-06	0	0	1	0	0	3	6	3	4	2	A	19	5	3	2	1	2	1	1	0	3	2	0	0	2.6	19.0	
21-Nov-06	1	0	0	1	1	0	6	8	18	C	C	C	C	C	C	A	1	1	2	1	0	0	2	0	1	2.4	17.6
22-Nov-06	0	2	A	2	1	1	1	2	3	2	2	2	2	3	2	2	1	1	1	1	1	1	0	0	1.5	3.2	
23-Nov-06	0	0	A	2	3	2	4	7	8	3	3	5	4	5	10	7	4	4	4	3	2	3	3	2	3.8	10.2	
24-Nov-06	2	1	A	2	1	1	2	4	3	3	3	3	3	4	5	4	2	2	2	1	1	1	1	2	2.3	4.7	
25-Nov-06	2	A	2	1	1	2	5	4	3	4	3	2	2	2	2	1	1	0	1	0	2	3	2	1	2.1	5.0	
26-Nov-06	A	1	1	1	1	3	10	8	13	25	15	18	19	5	4	2	1	1	1	1	1	1	0	A	6.0	25.4	
27-Nov-06	1	1	1	1	0	1	2	3	5	3	4	5	5	3	4	4	2	2	1	1	1	1	A	1	2.3	5.1	
28-Nov-06	1	1	1	1	1	1	1	2	3	6	7	7	7	7	7	4	3	2	3	4	4	A	6	2	3.5	7.2	
29-Nov-06	3	4	2	4	3	2	2	4	9	7	6	6	5	4	3	10	13	13	10	11	A	3	11	6	6.1	13.1	
30-Nov-06	1	2	2	0	0	1	4	1	2	1	2	2	2	4	3	2	2	3	2	A	1	1	1	1	1.8	4.3	
Hourly Avg	4.1	3.0	4.4	2.3	3.1	2.0	4.2	6.3	8.2	5.5	4.7	5.3	4.3	4.2	4.6	4.2	4.8	8.4	8.8	9.5	7.0	7.0	5.6	4.1			
Hourly Max	39.3	23.8	62.9	14.2	20.7	11.6	22.4	30.9	40.3	25.4	15.7	19.0	18.9	18.4	33.7	32.5	36.4	48.3	96.4	91.4	50.6	69.7	38.4	29.8			



PAS - Crescent Heights - Oxides of Nitrogen Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

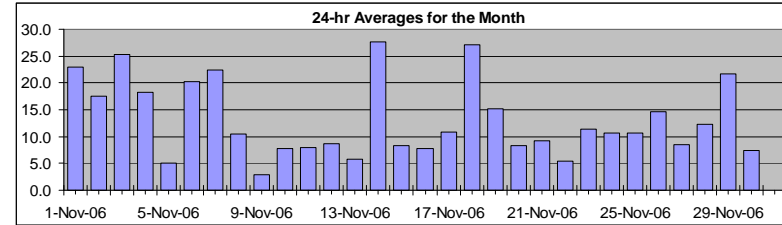
HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: November 1, 2006 to December 1, 2006

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

Maximum 1-hr Average:	134.6	ppb	18-Nov	18:00 19:00
Maximum 24-hr Average:	27.6	ppb	14-Nov	



AIC Time:	32 hrs	Operational Time:	683 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	62.6	43.7	14.5	8.5	4.5	2.2	1.3	13.1 ppb	8.5 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Nov-06	7	7	8	10	9	15	A	47	38	26	25	9	7	7	7	6	13	25	31	37	41	36	59	56	23.0	59.4	
2-Nov-06	33	33	39	29	44	A	47	54	62	11	8	4	3	1	1	1	1	2	3	3	4	8	9	3	17.6	62.4	
3-Nov-06	3	5	4	7	A	8	14	46	37	15	13	31	31	35	16	22	32	41	33	55	37	34	35	28	25.4	55.1	
4-Nov-06	13	13	7	A	32	23	20	27	25	23	16	13	12	21	19	14	10	62	46	8	5	6	3	5	18.3	61.8	
5-Nov-06	2	3	A	4	5	4	2	2	7	8	3	4	3	3	4	4	13	5	2	4	6	10	10	8	5.0	12.9	
6-Nov-06	7	A	12	12	17	11	17	26	20	21	24	15	12	9	13	20	43	50	22	19	30	56	8	5	20.2	55.6	
7-Nov-06	A	5	12	5	8	6	4	7	11	12	10	21	11	22	46	44	49	64	28	47	57	16	7	A	22.3	63.5	
8-Nov-06	5	19	14	9	17	15	18	21	16	15	12	12	10	7	7	5	6	7	6	6	4	5	A	4	10.5	21.5	
9-Nov-06	3	3	2	4	3	3	3	3	4	2	2	3	3	3	3	3	2	3	3	3	2	A	4	3	2.9	4.1	
10-Nov-06	3	4	3	3	3	3	9	7	35	19	13	5	4	6	7	8	12	11	5	5	A	7	4	4	7.8	34.6	
11-Nov-06	4	5	2	2	4	2	3	7	17	8	9	11	12	7	9	9	7	7	11	A	12	10	13	13	7.9	16.6	
12-Nov-06	13	12	12	11	8	8	20	19	21	11	5	3	3	3	4	8	7	6	A	8	5	4	3	4	8.7	20.8	
13-Nov-06	4	9	7	2	5	3	4	3	5	5	4	5	6	7	5	3	6	A	5	10	12	10	9	7	5.9	11.7	
14-Nov-06	8	17	18	19	13	13	16	29	16	9	11	7	7	6	8	12	A	50	69	54	74	94	48	36	27.6	93.5	
15-Nov-06	57	25	4	9	12	7	8	8	12	8	3	3	3	5	3	A	7	5	3	6	3	2	2	1	8.3	56.5	
16-Nov-06	2	1	2	1	2	2	4	5	4	12	4	5	4	7	A	9	11	8	12	26	22	20	12	6	7.8	26.2	
17-Nov-06	4	4	2	3	4	14	12	14	19	9	8	7	6	A	9	8	25	20	17	23	8	15	9	13	10.9	25.2	
18-Nov-06	9	4	4	16	8	4	11	6	5	7	10	8	A	10	9	9	15	50	135	124	43	30	59	45	27.0	134.6	
19-Nov-06	62	44	90	35	32	11	15	3	3	3	2	A	5	5	4	3	4	5	7	4	3	4	2	1	15.2	90.5	
20-Nov-06	1	1	3	1	2	6	11	11	17	10	A	41	18	8	5	5	13	6	6	5	9	8	3	3	8.4	41.0	
21-Nov-06	4	3	3	5	3	4	19	26	39	C	C	C	C	C	A	11	9	9	11	6	3	9	1	1	9.2	38.9	
22-Nov-06	0	10	A	9	7	8	7	7	10	6	6	3	3	6	5	6	7	7	4	4	3	3	2	2	5.5	10.0	
23-Nov-06	3	3	A	9	12	8	14	20	18	7	6	9	8	11	19	17	12	12	14	14	9	14	14	12	11.4	19.6	
24-Nov-06	11	10	A	15	12	11	10	13	13	12	10	9	9	11	14	14	10	14	9	9	7	6	6	9	10.6	15.3	
25-Nov-06	10	A	11	11	13	19	22	24	15	12	7	4	4	5	7	5	6	4	4	6	14	17	13	10	10.6	24.1	
26-Nov-06	A	12	5	4	5	14	35	31	33	42	26	31	31	11	9	7	5	6	6	4	4	2	1	A	14.7	42.1	
27-Nov-06	3	2	2	3	4	7	12	12	13	9	11	11	10	7	10	13	10	14	10	8	7	7	A	11	8.5	13.8	
28-Nov-06	8	8	6	7	5	6	8	9	11	15	17	15	14	15	16	14	14	14	13	16	18	A	23	10	12.3	23.1	
29-Nov-06	16	17	11	17	11	8	10	20	28	17	12	11	10	8	8	27	42	45	42	44	A	31	40	25	21.8	44.6	
30-Nov-06	9	4	3	1	1	3	8	4	7	3	7	7	8	16	14	12	13	15	15	A	8	6	4	2	7.5	16.5	
Hourly Avg	10.9	10.1	11.1	9.1	10.4	8.5	13.2	17.1	18.7	12.3	10.1	11.0	9.2	9.3	10.0	11.0	14.0	19.5	19.7	19.9	16.0	16.6	14.4	11.6			
Hourly Max	62.1	44.2	90.5	35.3	43.8	23.3	46.9	54.5	62.4	42.1	26.1	41.0	31.0	34.7	45.6	44.0	48.9	63.5	134.6	124.4	73.9	93.5	59.4	56.3			

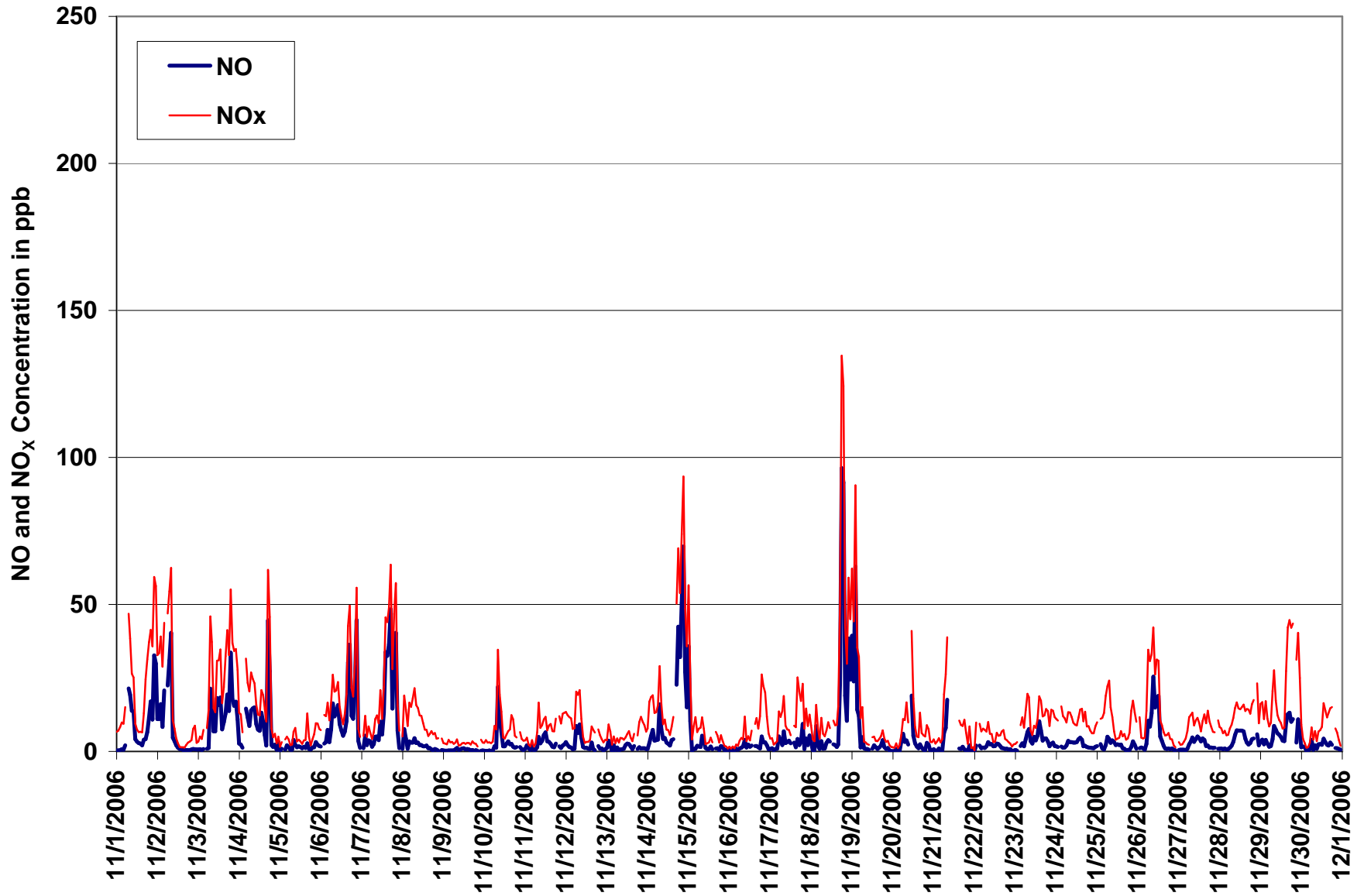


Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

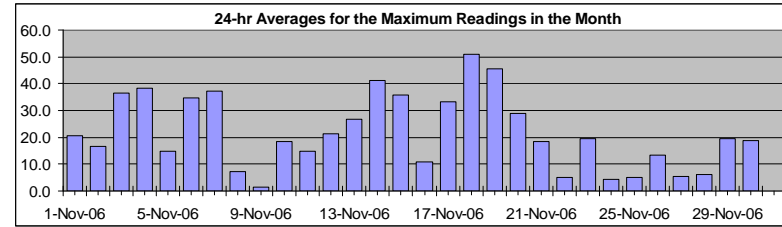
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: November 1, 2006 to December 1, 2006

Summary

Maximum 1-hr Value:	278.7	ppb	14-Nov	21:00 22:00
Maximum 24-hr Value:	50.9	ppb	18-Nov	



AIC Time:	32 hrs	Operational Time:	683 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	158.0	82.5	28.4	6.9	2.6	1.3	1.1	21.7 ppb	6.9 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Nov-06	1	2	2	2	1	7	A	44	24	61	23	6	4	4	5	3	59	8	11	24	44	30	64	44	20.5	64.2
2-Nov-06	29	26	31	11	58	A	55	59	77	9	5	4	2	2	1	1	1	1	1	1	2	2	2	2	16.6	76.6
3-Nov-06	3	3	2	3	A	10	18	49	35	12	10	50	18	139	54	72	33	81	44	85	36	24	43	19	36.6	138.7
4-Nov-06	5	4	2	A	27	26	47	35	18	56	16	9	9	39	16	10	4	64	244	49	35	52	2	113	38.4	244.1
5-Nov-06	1	21	A	2	57	28	1	2	71	6	3	12	3	2	3	2	11	2	1	12	12	53	36	3	14.9	70.8
6-Nov-06	3	A	4	12	13	5	12	28	19	21	24	50	20	35	34	24	75	60	32	29	31	190	68	5	34.6	190.4
7-Nov-06	A	5	32	28	24	41	6	6	19	18	9	21	8	19	53	108	92	83	26	78	96	44	3	A	37.2	108.4
8-Nov-06	2	24	39	2	7	8	8	10	6	5	4	4	3	3	13	3	13	3	1	2	1	1	A	1	7.1	38.6
9-Nov-06	1	2	2	1	1	1	1	2	2	2	2	2	2	2	2	2	1	2	1	1	1	A	1	1	1.6	2.4
10-Nov-06	1	1	1	1	1	1	7	5	49	18	16	17	4	48	70	36	37	4	15	54	A	32	5	1	18.4	69.9
11-Nov-06	22	63	23	5	62	1	2	22	58	9	7	8	9	6	6	4	3	2	5	A	3	3	9	7	14.7	62.7
12-Nov-06	10	6	3	3	2	3	88	11	20	85	3	19	26	8	2	43	3	3	A	71	32	23	9	22	21.5	87.7
13-Nov-06	55	126	59	1	71	13	40	1	10	2	13	59	50	41	37	2	18	A	2	4	2	2	2	2	26.6	126.5
14-Nov-06	2	5	17	18	12	10	13	21	16	6	9	5	4	4	7	7	A	61	160	68	84	279	98	46	41.3	278.7
15-Nov-06	242	83	2	3	3	68	46	24	125	59	15	2	2	37	2	A	2	19	2	36	52	2	1	1	35.9	241.6
16-Nov-06	17	1	22	7	16	1	16	3	4	39	3	9	3	3	A	3	3	4	3	30	22	20	21	2	10.9	38.5
17-Nov-06	2	4	1	2	2	42	54	4	89	14	44	66	58	A	69	3	10	5	19	113	2	63	38	57	33.1	112.9
18-Nov-06	84	2	1	169	76	3	23	2	2	40	20	35	A	4	4	2	19	120	155	144	49	39	137	38	50.9	168.8
19-Nov-06	158	107	234	40	26	5	72	20	20	11	7	A	3	41	41	2	34	46	90	26	22	39	2	1	45.5	233.8
20-Nov-06	1	1	35	1	1	88	121	82	18	5	A	30	16	39	31	2	34	26	2	1	60	70	1	1	29.0	121.2
21-Nov-06	12	1	1	38	5	4	53	33	66	C	C	C	C	C	A	3	5	19	2	2	3	30	23	30	18.3	66.0
22-Nov-06	2	9	A	12	3	3	2	4	18	12	11	3	4	6	8	4	2	2	2	2	3	3	2	3	5.2	18.2
23-Nov-06	3	3	A	5	5	4	8	13	76	42	4	63	19	45	93	12	5	9	9	7	4	6	7	3	19.5	92.7
24-Nov-06	5	3	A	3	3	2	3	7	5	5	6	5	6	6	7	7	4	4	2	2	3	2	2	4	4.2	7.0
25-Nov-06	4	A	5	3	2	5	9	7	5	6	5	3	4	14	3	2	2	1	2	2	3	7	24	3	5.2	23.7
26-Nov-06	A	2	2	2	2	12	18	21	25	105	17	25	26	10	7	4	2	2	2	2	2	1	1	A	13.3	105.3
27-Nov-06	2	2	2	1	1	3	4	16	28	5	6	8	7	5	9	8	3	3	3	3	2	3	A	2	5.5	28.0
28-Nov-06	2	4	2	2	2	2	3	4	4	9	9	9	9	11	10	8	6	4	6	8	7	A	13	5	6.0	13.4
29-Nov-06	5	8	7	7	16	3	3	8	27	11	8	13	7	5	29	42	29	30	38	31	A	12	77	29	19.4	76.9
30-Nov-06	4	63	70	1	7	26	63	2	53	2	23	6	6	8	7	4	3	33	38	A	2	2	2	2	18.7	70.0
Hourly Avg	24.2	20.7	23.1	13.3	17.5	14.7	27.5	18.2	33.0	23.3	11.4	19.4	11.9	20.8	22.2	14.8	17.8	24.2	31.6	31.7	21.9	36.9	24.8	15.9		
Hourly Max	241.6	126.5	233.8	168.8	75.9	88.1	121.2	81.7	124.8	105.3	43.6	66.2	58.0	138.7	92.7	108.4	91.9	119.7	244.1	144.3	95.5	278.7	137.2	112.8		



Station: Crescent Heights
 Station Owner: PAS

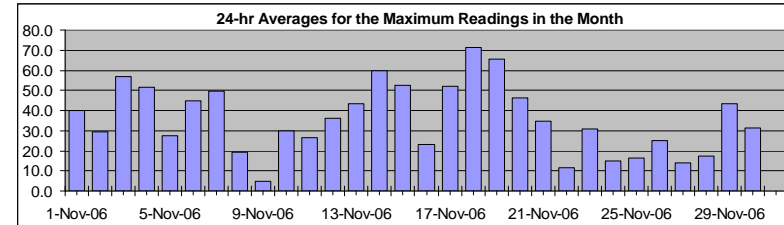
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: November 1, 2006 to December 1, 2006

Summary

Maximum 1-hr Value:	346.7	ppb	14-Nov	21:00 22:00
Maximum 24-hr Value:	71.5	ppb	18-Nov	



AIC Time:	32 hrs	Operational Time:	683 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	198.5	109.7	49.4	19.5	9.8	4.0	2.6	35.7 ppb	19.5 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Nov-06	11	12	13	12	16	26	A	73	48	104	40	14	9	8	10	9	83	35	41	55	75	56	92	74	39.8	104.3
2-Nov-06	55	52	57	32	89	A	85	90	107	19	11	7	4	4	2	3	3	4	7	5	5	17	18	5	29.6	107.4
3-Nov-06	7	7	6	13	A	25	37	86	70	25	16	76	37	185	79	92	59	110	68	111	56	43	66	37	57.0	185.0
4-Nov-06	18	15	11	A	46	43	66	50	30	70	25	14	16	51	27	22	14	83	271	77	41	77	4	118	51.7	271.4
5-Nov-06	2	65	A	7	78	50	3	4	80	18	7	29	8	5	6	6	34	11	3	35	27	75	63	10	27.3	79.7
6-Nov-06	10	A	15	21	23	14	22	38	29	32	35	55	22	41	46	34	88	74	46	37	40	219	74	10	44.6	219.3
7-Nov-06	A	11	46	39	35	52	11	12	30	26	17	39	15	28	65	131	116	95	42	94	116	60	14	A	49.8	131.3
8-Nov-06	12	39	55	11	25	26	31	33	25	18	17	14	15	10	25	11	25	10	10	9	8	6	A	8	19.2	55.3
9-Nov-06	4	4	4	6	6	5	4	4	7	3	4	4	4	4	5	7	3	5	4	4	3	A	8	4	4.6	7.9
10-Nov-06	4	5	4	4	4	5	19	13	64	29	27	27	7	75	88	58	63	21	33	62	A	56	14	4	29.9	88.5
11-Nov-06	33	104	24	12	92	3	5	36	90	22	13	14	15	12	15	12	9	9	18	A	17	13	20	21	26.5	104.1
12-Nov-06	26	20	13	14	14	12	112	26	34	111	8	30	41	21	7	64	12	13	A	95	56	43	18	37	35.9	112.0
13-Nov-06	62	190	106	5	103	31	61	4	21	6	22	69	71	66	60	6	36	A	8	21	16	15	11	9	43.4	189.7
14-Nov-06	13	21	32	32	24	20	26	35	29	12	16	11	10	8	13	17	A	99	201	92	109	347	128	74	59.6	346.7
15-Nov-06	292	123	7	12	15	90	55	30	168	70	26	4	5	106	5	A	11	45	5	68	61	3	3	2	52.4	291.6
16-Nov-06	25	2	32	14	36	3	26	7	10	65	6	19	6	12	A	15	15	14	23	62	49	39	43	10	23.1	65.3
17-Nov-06	7	15	3	4	5	58	67	18	123	26	70	95	94	A	93	16	40	29	38	152	10	91	60	84	52.2	152.1
18-Nov-06	101	7	6	208	118	6	47	8	7	64	29	55	A	14	12	14	39	162	198	183	77	64	165	59	71.5	207.8
19-Nov-06	188	139	298	71	53	23	101	45	35	19	12	A	8	56	51	5	60	61	131	45	42	63	4	3	65.8	298.1
20-Nov-06	3	2	51	2	3	104	149	114	41	17	A	56	36	72	58	8	69	45	7	7	98	106	5	7	46.1	149.2
21-Nov-06	25	4	6	65	15	15	82	63	97	C	C	C	C	C	A	19	19	35	17	13	6	59	32	50	34.6	97.3
22-Nov-06	7	22	A	29	10	12	10	10	25	19	17	6	8	13	13	10	10	11	5	5	5	5	4	4	11.4	29.4
23-Nov-06	5	7	A	14	16	17	19	28	87	59	8	80	27	59	111	26	15	21	21	19	14	21	23	17	31.0	111.4
24-Nov-06	21	12	A	21	15	13	13	19	17	15	15	14	14	14	18	21	17	20	11	10	12	7	8	17	15.0	21.2
25-Nov-06	18	A	16	16	18	30	30	30	20	17	9	5	7	19	9	7	9	6	7	10	24	24	37	14	16.6	36.6
26-Nov-06	A	18	7	6	7	37	45	49	52	134	29	40	42	18	15	11	8	8	8	6	6	4	3	A	25.1	133.6
27-Nov-06	6	3	4	5	7	12	15	25	41	15	15	16	13	9	21	20	15	18	15	11	8	9	A	13	13.7	40.9
28-Nov-06	11	12	7	8	7	7	11	13	15	21	19	19	18	24	22	20	21	19	21	27	22	A	39	20	17.5	38.7
29-Nov-06	21	24	24	26	41	10	13	33	53	25	16	24	13	11	55	75	66	69	81	69	A	43	151	54	43.3	151.3
30-Nov-06	24	73	73	3	13	56	103	10	75	5	44	18	19	25	19	18	17	52	49	A	12	9	6	4	31.5	103.5
Hourly Avg	36.0	36.1	35.5	24.6	32.2	27.8	43.7	33.5	51.0	36.9	20.5	30.5	20.8	34.7	33.9	26.1	33.7	40.8	47.9	49.4	36.2	56.3	39.8	27.4		
Hourly Max	291.6	189.7	298.1	207.8	118.4	104.1	149.2	114.3	168.2	133.6	70.2	94.7	93.8	185.0	111.4	131.3	116.2	161.7	271.4	183.0	116.4	346.7	165.2	118.4		

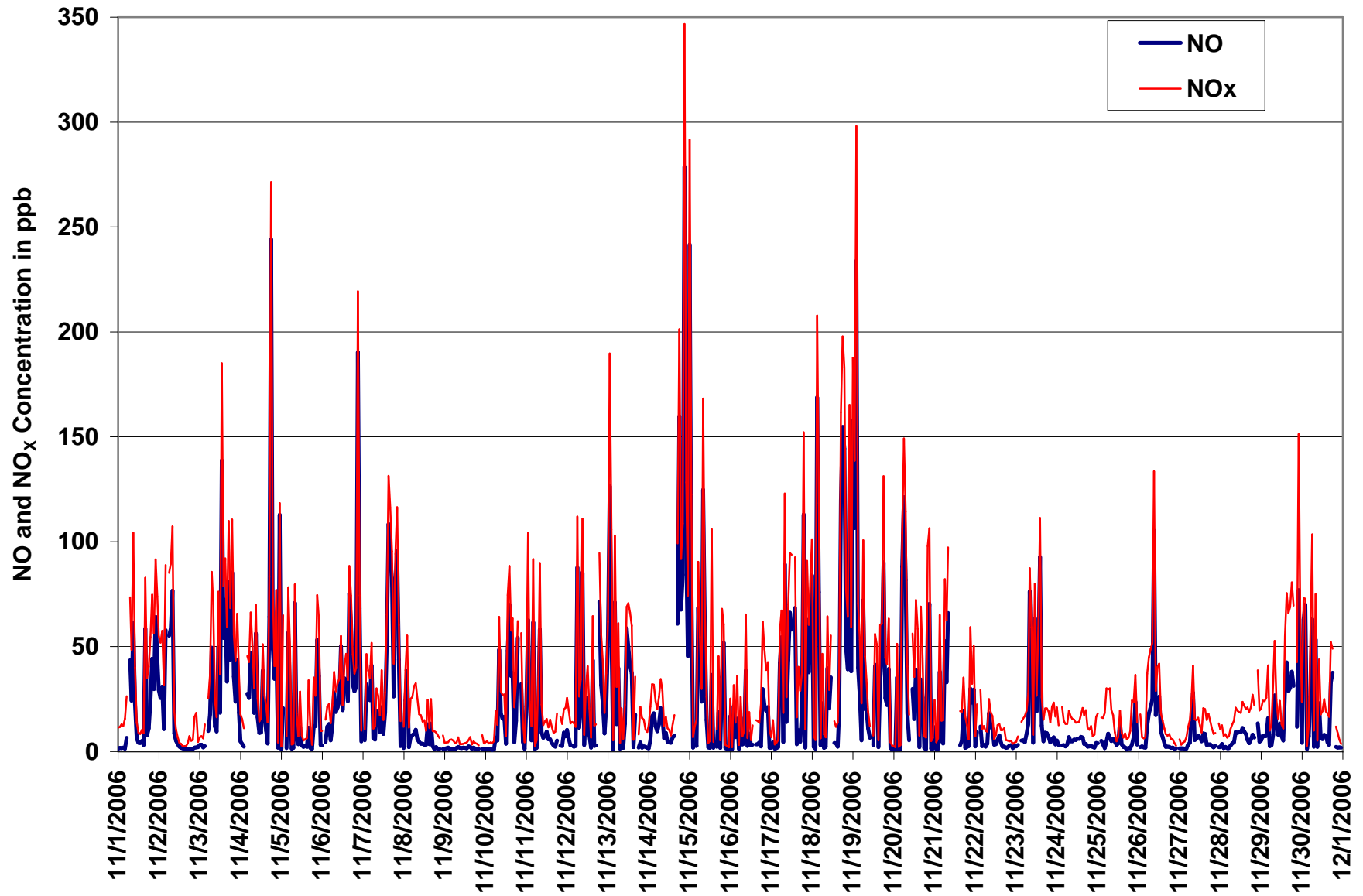


Figure 4. PAS - Crescent Heights Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend



PAS - Crescent Heights - Ozone Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

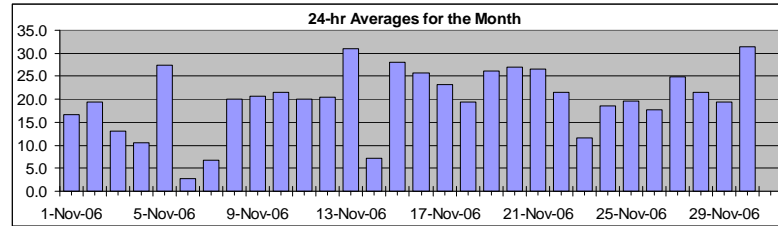
Ozone (O₃)

Monitoring Dates: November 1, 2006 to December 1, 2006

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

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	38.4 ppb	21-Nov	22:00 23:00
Maximum 24-hr Average:	31.5 ppb	30-Nov	

AIC Time:	33 hrs		Operational Time:	685 hrs					
Calibration Time:	2 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	37.3	34.8	28.4	21.6	11.4	1.4	0.8	20.0 ppb	21.6 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00		
1-Nov-06	24	24	22	21	21	15	A	2	9	16	20	28	31	32	32	31	25	13	7	4	4	3	2	1		16.7	31.6	
2-Nov-06	3	2	1	1	1	A	2	2	8	20	24	28	32	36	35	34	33	31	29	27	26	21	21	26		19.3	36.4	
3-Nov-06	27	25	24	20	A	22	14	5	10	19	19	17	18	22	17	7	4	3	1	2	1	2	3		13.1	27.0		
4-Nov-06	4	4	8	A	1	5	3	1	3	5	7	9	11	11	10	9	7	1	2	23	25	27	31	32		10.4	32.3	
5-Nov-06	33	32	A	30	29	27	26	26	23	25	33	35	35	34	34	32	24	30	32	31	23	17	14	4		27.4	34.8	
6-Nov-06	3	A	2	1	1	1	1	1	2	4	4	5	5	7	5	2	1	1	1	1	1	1	9	8		2.8	9.0	
7-Nov-06	A	12	7	11	8	10	9	8	6	8	11	6	5	3	2	1	1	1	2	1	1	13	18	A		6.6	17.8	
8-Nov-06	25	5	8	11	16	16	11	11	17	18	21	22	25	27	30	31	29	24	22	21	23	22	A	22		19.9	30.5	
9-Nov-06	23	23	21	19	18	17	18	17	18	19	19	19	20	23	22	24	25	23	23	23	A	20	19			20.6	25.0	
10-Nov-06	18	16	16	15	14	13	9	10	5	9	19	29	29	31	27	28	25	26	32	32	A	31	32	31		21.6	32.0	
11-Nov-06	31	35	35	34	34	33	30	25	18	23	21	17	12	12	11	12	14	14	11	A	12	11	7	7		20.0	34.8	
12-Nov-06	6	6	6	7	9	8	4	3	8	23	29	32	34	34	32	28	25	26	A	29	29	31	32	32		20.5	33.8	
13-Nov-06	35	35	36	37	34	33	33	34	35	34	37	37	37	34	35	36	36	A	37	28	17	12	9	11		31.0	37.4	
14-Nov-06	10	3	3	4	5	4	2	3	8	13	13	16	17	20	19	17	A	2	1	1	1	1	1	2		7.2	19.8	
15-Nov-06	2	9	22	18	17	25	25	27	29	31	37	35	34	34	37	A	35	34	33	31	32	31	31	33		27.9	36.7	
16-Nov-06	34	33	34	34	33	32	28	28	31	26	25	25	30	27	A	29	25	29	23	13	11	9	15	20		25.8	33.9	
17-Nov-06	22	24	27	27	26	21	21	17	19	25	30	32	32	A	35	31	14	15	16	15	22	17	21	22		23.1	35.4	
18-Nov-06	23	26	29	24	25	27	25	25	27	27	29	32	A	31	31	28	20	8	1	1	1	3	3	1		19.4	32.1	
19-Nov-06	1	2	1	1	2	20	27	35	37	37	36	A	37	37	37	34	33	32	32	33	33	33	33	30		26.2	37.3	
20-Nov-06	30	30	30	32	30	30	27	22	15	19	A	9	14	29	36	32	33	36	32	29	25	25	29	27		27.0	35.9	
21-Nov-06	25	28	29	30	31	29	20	15	11	A	16	18	28	35	30	27	27	26	20	27	33	30	38	38		26.5	38.4	
22-Nov-06	34	13	A	17	19	18	19	21	C	C	A	26	26	24	25	24	21	19	21	21	22	22	21	20		21.6	34.4	
23-Nov-06	19	17	A	13	10	13	8	6	8	13	14	14	14	13	14	11	11	11	10	9	13	8	8	9		11.6	19.5	
24-Nov-06	11	14	A	12	13	14	18	15	14	17	20	21	23	22	19	17	20	18	22	22	23	24	24	22		18.5	24.2	
25-Nov-06	21	A	22	18	15	11	10	7	15	19	23	25	27	26	26	26	24	25	25	22	17	15	16	17		19.7	27.0	
26-Nov-06	A	16	23	21	20	13	3	5	7	11	16	16	16	19	20	22	22	21	21	22	23	27	27	A		17.8	27.0	
27-Nov-06	28	28	28	28	26	25	22	22	23	25	23	24	27	29	27	24	24	21	23	24	25	25	A	22		24.8	28.7	
28-Nov-06	23	24	25	24	25	25	22	21	20	20	20	22	23	22	22	21	19	19	21	19	18	A	16	24		21.5	25.0	
29-Nov-06	19	19	23	19	23	25	24	17	15	22	25	28	31	33	33	22	10	7	6	6	A	10	10	19		19.4	33.4	
30-Nov-06	30	35	37	38	38	37	35	35	34	35	33	32	30	26	28	27	25	24	21	A	30	31	32	32		31.5	37.7	
Hourly Avg	20.2	19.3	20.0	19.5	18.8	19.6	17.1	15.5	16.4	20.0	22.3	22.8	24.2	25.1	25.2	23.4	21.2	18.6	18.3	18.5	18.3	17.9	18.7	19.0				
Hourly Max	34.6	35.2	36.8	37.7	37.6	37.2	35.2	35.3	37.3	37.0	37.0	37.4	36.7	36.7	36.8	36.0	36.3	35.6	37.3	32.7	32.8	32.6	38.4	37.6				

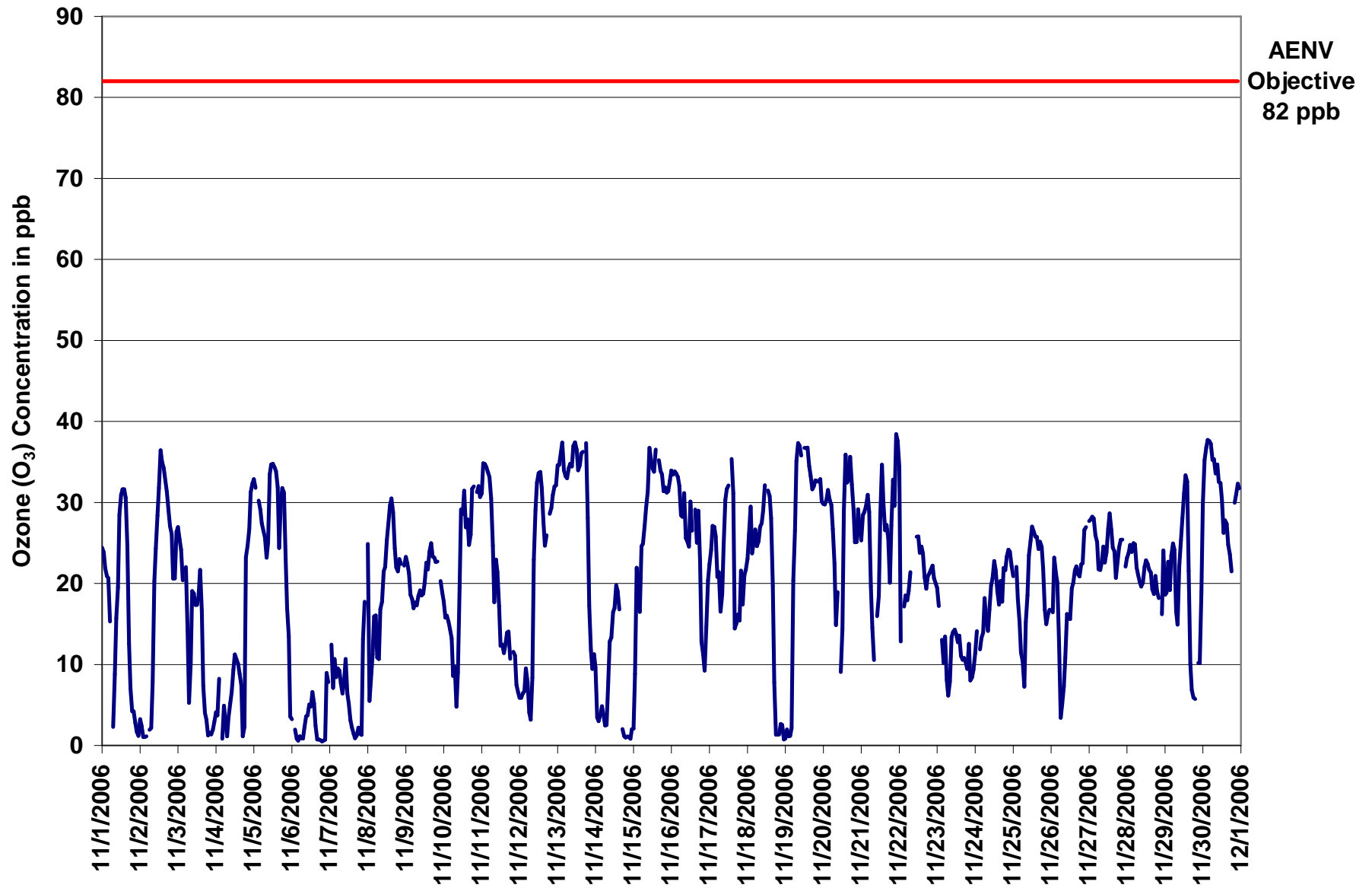


Figure 5. PAS - Crescent Heights Ozone 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

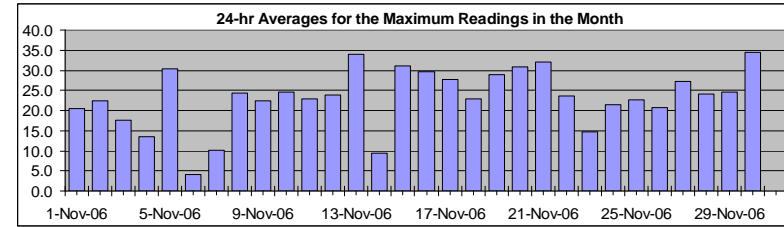
Ozone (O₃)

Monitoring Dates: November 1, 2006 to December 1, 2006

Summary

Maximum 1-hr Value:	43.5	ppb	21-Nov	22:00 23:00
Maximum 24-hr Value:	34.5	ppb	30-Nov	

AIC Time:	33 hrs	Operational Time:	685 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	39.7	37.8	31.9	24.9	15.8	3.6	1.8	23.3 ppb	24.9 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Nov-06	28	27	26	23	25	19	A	5	14	18	27	32	33	33	34	33	32	19	14	13	8	6	4	2	20.5	34.1
2-Nov-06	6	6	2	2	2	A	5	4	20	23	27	31	35	39	37	35	35	33	32	29	28	26	27	29	22.4	38.6
3-Nov-06	30	28	25	24	A	26	18	11	16	21	21	20	21	23	26	24	15	14	12	3	7	7	7	7	17.7	29.7
4-Nov-06	6	6	10	A	3	10	9	3	6	7	9	12	13	13	11	11	9	6	15	26	27	30	33	35	13.5	34.8
5-Nov-06	34	34	A	32	31	30	29	27	26	32	35	37	36	36	34	35	34	34	35	27	22	20	5	30.5	37.1	
6-Nov-06	5	A	4	2	2	2	2	2	3	5	5	7	6	8	8	4	2	2	2	2	2	10	10	4.2	10.2	
7-Nov-06	A	14	11	12	12	11	11	10	10	11	13	13	8	5	4	3	2	3	6	6	3	22	30	A	10.0	29.6
8-Nov-06	31	17	12	15	27	21	17	16	21	21	26	27	30	30	33	34	33	27	25	24	26	26	A	25	24.4	33.8
9-Nov-06	25	25	23	21	20	19	19	19	20	20	20	21	23	25	24	25	27	26	24	24	A	22	21	22.4	26.5	
10-Nov-06	19	17	17	16	16	14	12	10	12	28	31	33	35	30	30	30	34	34	A	A	33	35	32	24.5	34.6	
11-Nov-06	35	37	37	36	35	35	34	27	24	26	25	20	15	14	15	15	16	17	14	A	13	14	11	9	22.8	37.1
12-Nov-06	8	9	9	9	12	10	10	9	21	29	33	35	35	35	34	31	28	28	A	31	33	33	33	34	23.9	35.5
13-Nov-06	38	39	40	40	36	35	35	36	37	36	39	40	40	38	37	39	40	A	39	37	21	17	12	13	34.0	40.0
14-Nov-06	14	7	5	7	6	5	4	4	12	16	15	19	19	22	21	20	A	6	2	2	2	2	2	5	9.4	22.1
15-Nov-06	6	19	25	23	23	28	28	30	32	36	39	37	36	37	38	A	37	36	36	34	33	33	33	34	31.0	38.7
16-Nov-06	36	36	35	35	35	34	32	33	34	32	27	29	34	33	A	33	29	31	30	21	17	15	20	25	29.7	36.4
17-Nov-06	24	26	28	29	27	27	28	20	26	28	35	34	35	A	38	36	25	22	24	21	26	24	26	26	27.6	38.5
18-Nov-06	26	28	32	29	29	28	30	28	29	31	34	36	A	33	33	33	24	20	3	3	6	5	7	2	22.9	36.1
19-Nov-06	2	5	3	4	9	26	36	37	39	38	37	A	38	39	39	37	35	34	34	35	35	34	35	32	28.9	39.3
20-Nov-06	32	31	32	33	32	32	30	27	19	22	A	17	20	37	39	35	41	43	35	32	29	29	31	30	30.8	42.7
21-Nov-06	29	32	32	34	35	31	29	25	20	A	20	24	38	38	33	33	30	29	28	38	37	39	44	40	32.0	43.5
22-Nov-06	40	16	A	19	21	20	21	23	C	C	A	27	27	26	27	25	24	22	23	23	23	24	22	21	23.7	40.0
23-Nov-06	20	20	A	15	12	17	10	11	15	15	16	16	16	17	18	18	13	14	13	13	14	14	12	12	14.8	20.5
24-Nov-06	14	16	A	15	16	20	20	17	16	23	23	23	26	25	21	22	23	21	24	24	25	26	26	26	21.5	26.3
25-Nov-06	25	A	A	25	21	19	18	14	11	19	22	26	27	29	29	28	27	27	26	24	23	18	19	18	22.7	28.6
26-Nov-06	A	24	25	23	22	18	9	9	15	16	18	17	18	22	23	25	24	23	22	24	24	29	28	A	20.8	28.6
27-Nov-06	29	29	29	29	28	28	26	26	26	27	25	26	29	30	30	28	27	24	25	26	27	27	A	24	27.2	30.3
28-Nov-06	25	26	26	25	26	26	24	23	22	23	22	24	25	25	24	24	22	22	24	23	23	A	24	26	24.2	26.5
29-Nov-06	25	25	26	25	26	26	26	23	20	24	27	30	33	35	35	29	21	17	14	14	A	18	17	27	24.5	35.4
30-Nov-06	36	37	38	39	39	39	38	37	36	37	36	35	34	31	32	32	30	28	28	A	32	32	34	33	34.5	39.1
Hourly Avg	23.1	22.7	22.2	21.9	21.6	22.7	20.9	18.8	20.9	23.3	25.3	25.8	27.1	28.1	27.9	26.7	25.3	22.8	22.1	22.1	21.3	21.6	22.3	21.5		
Hourly Max	40.0	39.0	39.5	39.5	39.1	38.8	38.1	37.4	39.1	38.4	38.7	40.0	39.7	38.7	39.4	38.8	40.6	42.7	38.9	38.4	36.8	38.6	43.5	39.7		

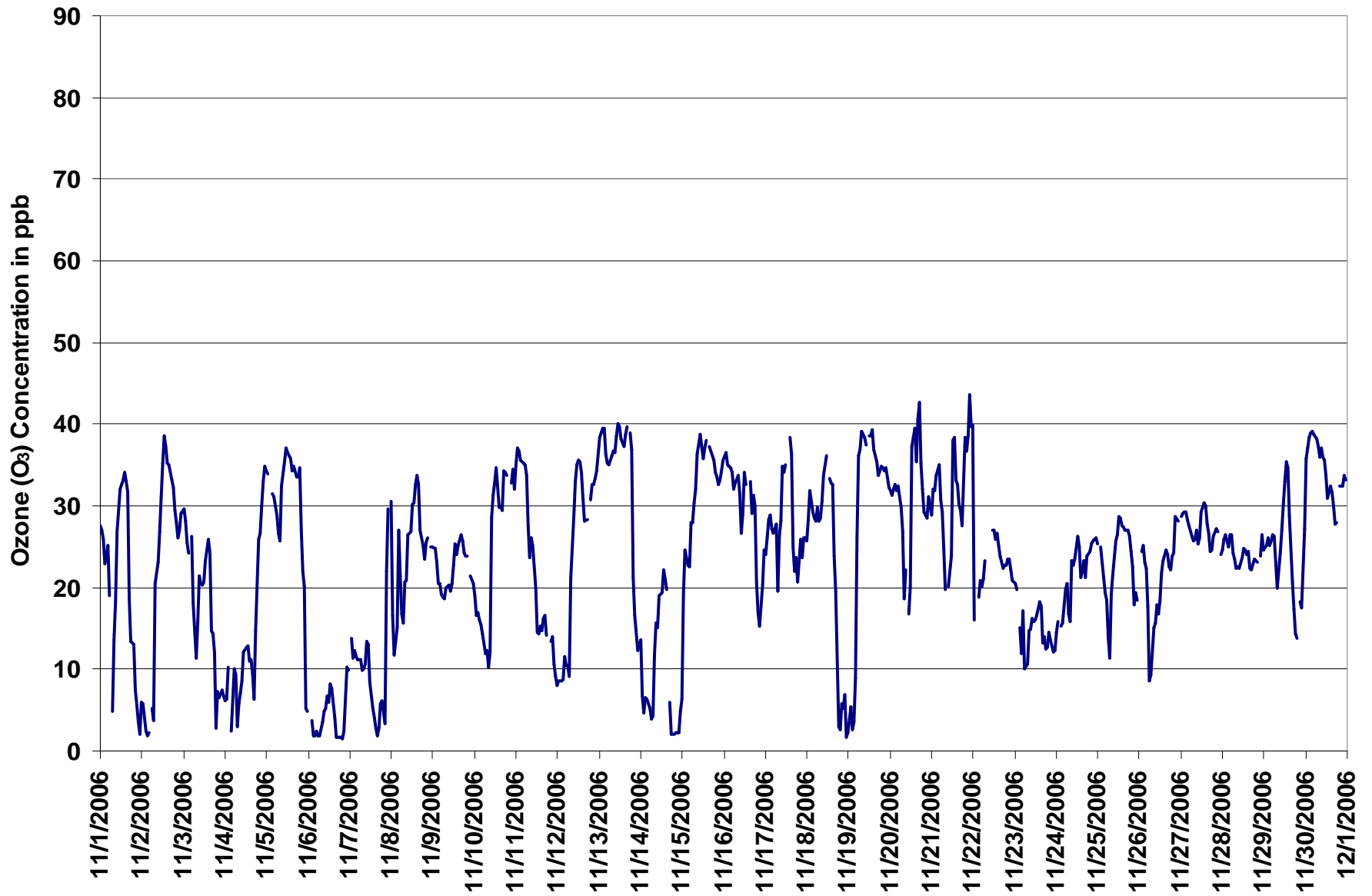
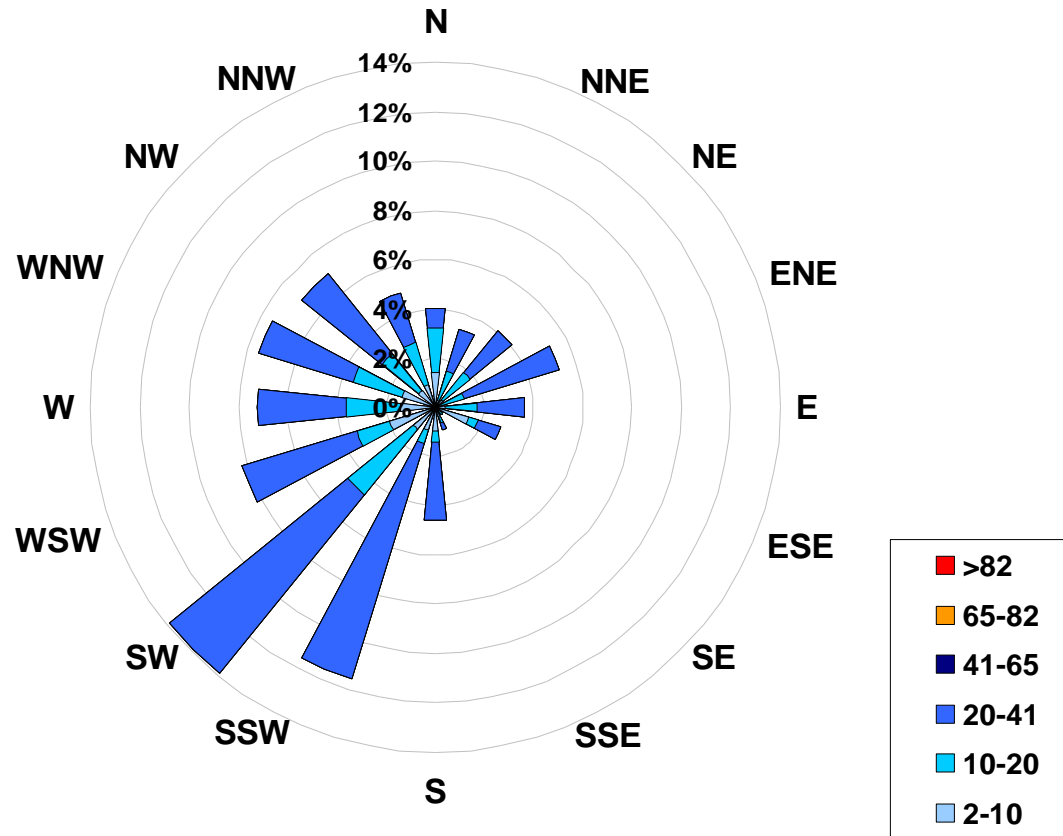


Figure 6. PAS - Crescent Heights Ozone Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of O ₃ in ppb			
Range			Frequency (hrs)
2.0	<	10	145
10	to	20	156
20	to	41	384
41	to	65	0
65	to	82	0
	>	82	0
Total Non-Zero Values			685



PAS - Crescent Heights - Ozone Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

EIGHT HOUR RUNNING AVERAGE TABLE

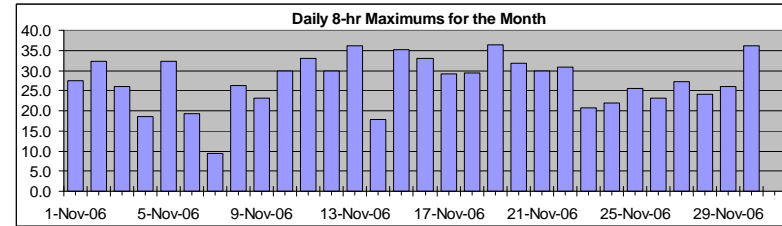
Ozone (O₃)

Monitoring Dates: November 1, 2006 to December 1, 2006

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

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	36.5	ppb	19-Nov	14:00	15:00		

Percentile	99	95	75	50	25	5	1
	35.8	33.7	27.0	21.3	13.2	3.2	1.6



Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	Daily Maximum
1-Nov-06	27	27	26	25	24	23	22	18	16	15	15	16	17	20	21	25	27	26	25	22	18	15	11	7		27.4	
2-Nov-06	5	3	3	2	2	2	2	2	3	5	8	12	17	19	23	27	30	32	32	32	31	29	28	27		32.3	
3-Nov-06	26	25	25	24	24	24	23	20	17	16	15	16	15	16	17	17	17	15	13	11	9	7	5	3		26.0	
4-Nov-06	3	3	3	3	3	4	4	4	4	4	4	4	6	6	7	8	9	8	8	9	11	13	16	19		18.6	
5-Nov-06	22	26	29	30	31	31	30	29	28	27	28	28	29	30	31	31	32	32	32	32	30	28	25	22		32.2	
6-Nov-06	19	18	13	9	6	4	2	1	1	2	2	2	3	3	4	4	4	4	3	3	2	1	2	3		19.2	
7-Nov-06	3	5	5	7	8	9	9	9	9	8	9	8	8	7	6	5	5	4	3	2	2	3	5	5		9.3	
8-Nov-06	9	9	10	12	14	14	13	13	12	13	15	16	18	19	21	24	25	26	26	26	26	25	25	23		26.2	
9-Nov-06	23	22	22	22	21	20	20	19	19	18	18	18	18	19	20	20	21	22	22	23	23	23	23	22		23.2	
10-Nov-06	21	20	19	18	17	16	15	14	12	11	12	14	15	18	20	22	25	27	28	29	29	29	29	30		29.8	
11-Nov-06	31	32	32	33	33	33	33	32	30	29	27	25	22	20	18	16	15	14	13	12	12	12	12	11		33.1	
12-Nov-06	10	8	8	8	7	7	7	6	6	9	11	15	18	21	24	27	29	30	30	29	29	28	28	29		30.0	
13-Nov-06	31	32	32	33	34	34	34	35	35	35	35	35	35	35	35	36	36	36	36	35	32	29	25	22		36.0	
14-Nov-06	18	16	12	9	7	6	5	4	4	5	6	8	10	12	14	15	16	15	13	11	9	6	3	1		17.8	
15-Nov-06	1	2	5	7	9	12	15	18	21	24	26	28	30	32	33	34	35	35	35	34	34	33	33	33		35.1	
16-Nov-06	32	32	32	33	33	33	33	32	32	31	30	29	28	27	27	27	27	27	27	25	22	20	19	18		33.0	
17-Nov-06	18	17	18	20	21	23	24	23	23	23	24	25	25	27	29	29	29	27	25	23	21	21	19	18		29.1	
18-Nov-06	19	20	22	23	23	25	25	25	26	26	26	27	27	28	29	29	28	26	22	17	15	12	8	5		29.4	
19-Nov-06	2	2	2	2	2	4	7	11	16	20	24	28	33	35	36	36	36	36	35	35	34	34	33	32		36.5	
20-Nov-06	32	32	31	31	31	31	30	29	27	26	25	22	19	19	21	22	25	27	28	30	32	31	30	29		31.8	
21-Nov-06	29	28	27	27	28	28	27	26	24	23	21	20	19	20	22	23	26	26	26	27	28	27	28	30		29.8	
22-Nov-06	31	29	30	29	27	25	23	20	N	N	N	N	N	N	N	N	N	23	23	23	22	22	21	21		30.7	
23-Nov-06	21	20	20	19	18	16	14	13	11	10	11	11	11	11	12	13	13	13	12	12	11	11	10	10		20.7	
24-Nov-06	10	10	10	11	11	12	13	14	14	15	15	16	18	19	19	19	20	20	20	20	20	21	21	22		21.9	
25-Nov-06	22	23	23	22	21	19	17	15	14	15	15	16	17	19	21	23	25	25	26	25	24	22	21	20		25.5	
26-Nov-06	19	18	18	18	18	18	16	15	14	13	12	11	11	12	14	16	18	19	20	20	21	22	23	23		23.2	
27-Nov-06	24	25	26	27	27	27	26	26	25	25	24	24	24	24	25	25	25	25	25	25	25	24	24	24		27.3	
28-Nov-06	23	24	24	24	24	24	24	24	23	23	22	22	22	21	21	21	21	21	21	21	21	20	20	19	19		24.1
29-Nov-06	19	19	20	20	20	21	22	21	21	21	21	22	23	24	26	26	26	26	24	21	18	17	13	10	10		26.1
30-Nov-06	13	17	21	26	27	30	34	36	36	36	35	35	34	33	32	31	30	28	27	26	26	27	27	28		36.1	

Hourly Max 32.5 32.4 32.5 33.4 34.0 34.3 34.4 35.6 36.1 36.0 35.5 34.8 35.1 35.2 36.5 36.4 35.8 36.0 36.0 34.7 33.8 33.4 32.8 32.6



PAS - Crescent Heights - Carbon Monoxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

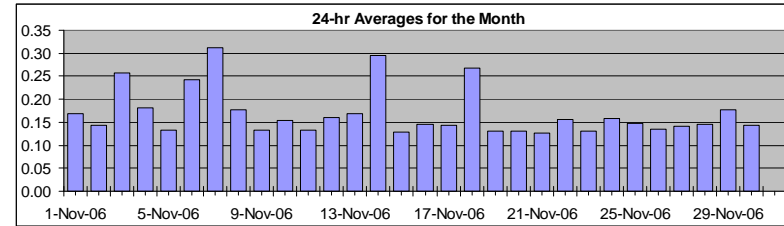
Carbon Monoxide (CO)

Monitoring Dates: November 1, 2006 to December 1, 2006

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

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	1.0 ppm	18-Nov	19:00 20:00
Maximum 24-hr Value:	0.3 ppm	7-Nov	

AIC Time:	33 hrs	Operational Time:	684 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.6	0.3	0.2	0.1	0.1	0.1	0.1	0.2 ppm	0.1 ppm



Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	A	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.3	0.4	0.3	0.17	0.36
2-Nov-06	0.2	0.1	0.1	0.1	0.1	A	0.3	0.6	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.14	0.56
3-Nov-06	0.1	0.1	0.1	0.1	A	0.1	0.2	0.7	0.6	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.26	0.69
4-Nov-06	0.2	0.2	0.1	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.18	0.36
5-Nov-06	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.13	0.18
6-Nov-06	0.1	A	0.1	0.1	0.2	0.2	0.2	0.5	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.4	0.4	0.2	0.2	0.3	0.3	0.1	0.1	0.24	0.46
7-Nov-06	A	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.3	0.6	0.7	0.6	0.8	0.4	0.6	0.5	0.2	0.2	A	0.31	0.78
8-Nov-06	0.1	0.1	0.1	0.1	0.1	0.2	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	0.1	0.1	A	0.1	0.18	0.26
9-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.13	0.19
10-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	A	0.1	0.1	0.1	0.15	0.44
11-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	A	0.1	0.1	0.2	0.2	0.13	0.17
12-Nov-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	A	0.1	0.2	0.1	0.1	0.2	0.16	0.22
13-Nov-06	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	A	0.2	0.2	0.2	0.2	0.2	0.2	0.17	0.23
14-Nov-06	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.5	0.6	0.5	0.6	0.6	0.3	0.3	0.30	0.64
15-Nov-06	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.13	0.29
16-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	A	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.14	0.24
17-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	A	0.1	0.1	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.14	0.26
18-Nov-06	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	A	0.1	0.1	0.2	0.2	0.4	0.9	1.0	0.4	0.2	0.5	0.3	0.27	1.00
19-Nov-06	0.3	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.13	0.30
20-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	A	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.13	0.34
21-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	A	0.2	0.1	0.1	C	C	C	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.13	0.41
22-Nov-06	0.1	0.1	A	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.16	0.27
23-Nov-06	0.1	0.1	A	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.13	0.21
24-Nov-06	0.1	0.1	A	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.16	0.21
25-Nov-06	0.2	A	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.15	0.24
26-Nov-06	A	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.13	0.21
27-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	A	0.2	0.14	0.24
28-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	A	0.1	0.1	0.15	0.21
29-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.3	0.3	A	0.2	0.2	0.2	0.18	0.36
30-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.1	0.1	0.14	0.21
Hourly Avg	0.14	0.13	0.13	0.12	0.13	0.13	0.16	0.23	0.23	0.16	0.15	0.17	0.14	0.15	0.17	0.17	0.19	0.22	0.21	0.22	0.19	0.18	0.16	0.15		
Hourly Max	0.30	0.20	0.29	0.24	0.21	0.23	0.31	0.69	0.57	0.25	0.22	0.40	0.24	0.30	0.56	0.65	0.63	0.78	0.90	1.00	0.58	0.62	0.46	0.30		

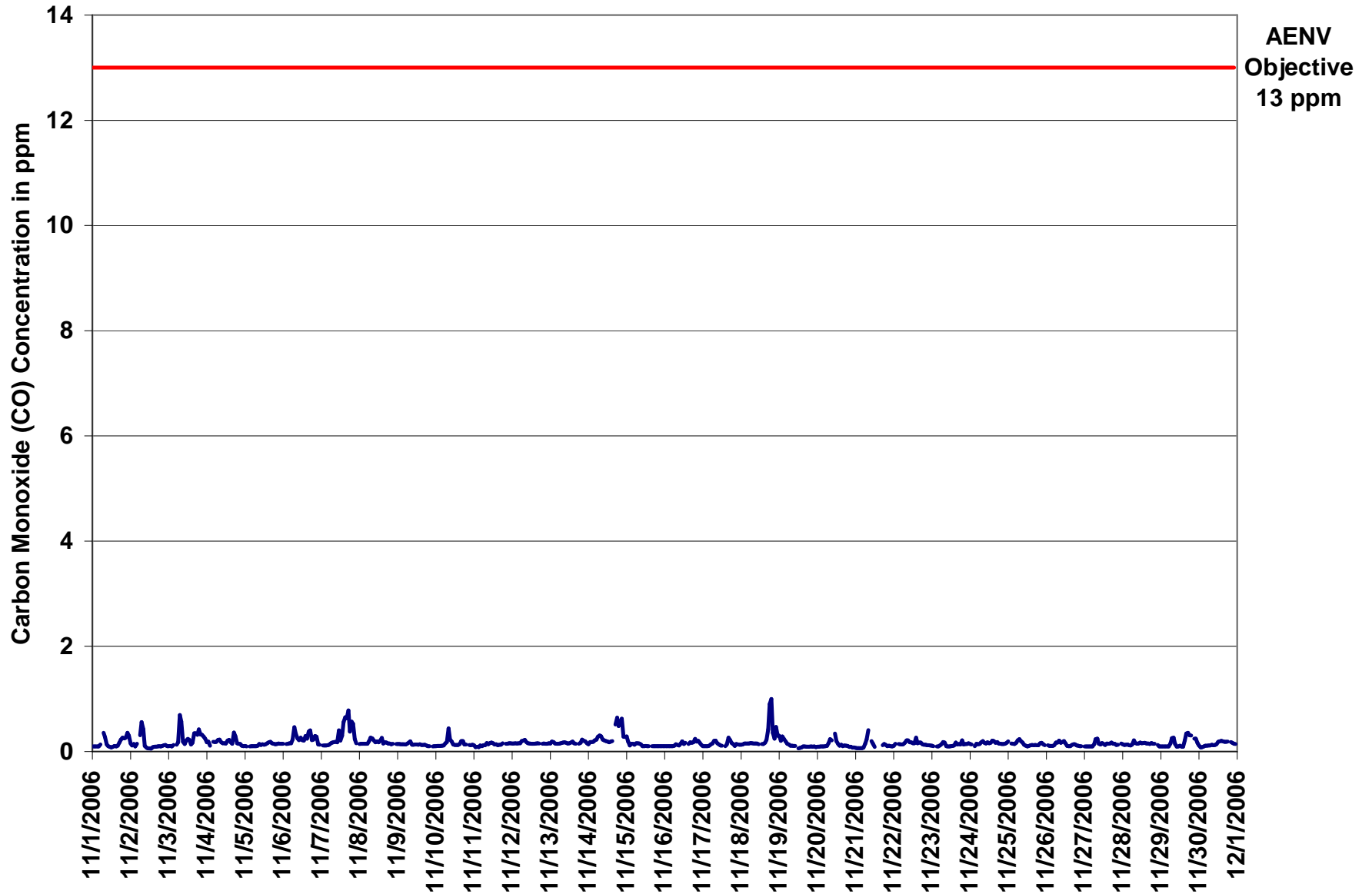


Figure 7. PAS - Crescent Heights Carbon Monoxide 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

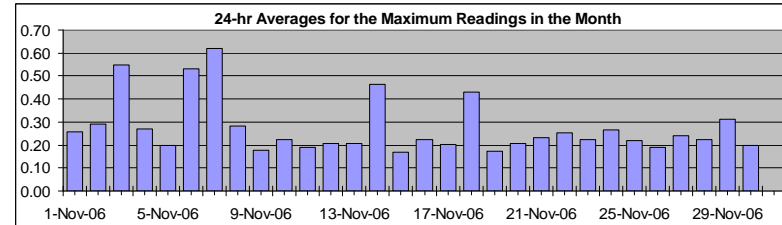
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

Monitoring Dates: November 1, 2006 to December 1, 2006

Summary

Maximum 1-hr Value:	2.3	ppm	3-Nov	7:00 8:00
Maximum 24-hr Value:	0.6	ppm	7-Nov	



AIC Time:	33 hrs	Operational Time:	684 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.5	0.7	0.3	0.2	0.1	0.1	0.1	0.3 ppm	0.2 ppm

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.3	A	0.4	0.4	0.2	0.2	0.2	0.1	0.1	0.3	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.26	0.45
2-Nov-06	0.2	0.1	0.2	0.1	0.2	A	1.3	1.6	0.6	0.2	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.29	1.63
3-Nov-06	0.1	0.2	0.1	0.3	A	0.2	0.3	2.3	1.6	0.3	0.2	0.2	0.3	0.3	0.2	0.4	0.6	0.6	1.1	1.0	0.5	0.7	0.5	0.3	0.55	2.30
4-Nov-06	0.3	0.3	0.1	A	0.2	0.2	0.3	0.4	0.8	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.4	0.5	0.2	0.1	0.1	0.1	0.1	0.27	0.76
5-Nov-06	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.6	0.1	0.2	0.20	0.61
6-Nov-06	0.2	A	0.1	0.1	0.2	0.2	0.4	2.2	0.8	0.4	0.3	0.8	0.4	0.5	1.3	0.4	0.7	0.7	0.4	0.9	0.4	0.4	0.2	0.2	0.53	2.17
7-Nov-06	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	1.7	0.5	0.6	0.9	1.7	1.3	1.3	0.6	1.0	1.0	0.6	0.2	A	0.62	1.71
8-Nov-06	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	1.1	0.2	0.5	0.2	0.2	0.2	0.1	0.1	A	0.1	0.28	1.08
9-Nov-06	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	A	0.1	0.18	0.33
10-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.8	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.1	0.2	A	0.2	0.1	0.1	0.22	0.80
11-Nov-06	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.3	A	0.2	0.2	0.2	0.2	0.19	0.30
12-Nov-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.21	0.30
13-Nov-06	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	0.2	0.2	0.1	A	0.2	0.2	0.3	0.2	0.2	0.2	0.21	0.29
14-Nov-06	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.3	A	1.0	1.4	0.9	0.8	1.0	0.4	0.5	0.46	1.37
15-Nov-06	0.6	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.2	0.2	0.2	0.1	A	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.17	0.55
16-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.4	0.2	0.4	A	0.2	0.3	0.5	0.2	0.3	0.2	0.3	0.2	0.2	0.22	0.53
17-Nov-06	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	A	0.2	0.2	0.4	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.20	0.40
18-Nov-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.3	0.1	0.3	0.4	0.7	1.6	1.5	0.5	0.4	1.4	0.4	0.43	1.58
19-Nov-06	0.4	0.3	0.5	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.17	0.47
20-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	A	0.4	0.3	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.21	0.65
21-Nov-06	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.6	0.8	A	0.3	0.2	0.2	C	C	C	A	0.2	0.2	0.2	0.1	0.3	0.1	0.1	0.23	0.85
22-Nov-06	0.1	0.1	A	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.3	0.3	0.2	0.2	0.9	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25	0.94
23-Nov-06	0.2	0.2	A	0.1	0.1	0.3	0.2	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.2	0.4	0.3	0.3	0.2	0.4	0.3	0.2	0.2	0.2	0.22	0.39
24-Nov-06	0.2	0.2	A	0.1	0.2	0.1	0.2	0.3	0.3	0.3	0.2	0.3	0.4	0.3	0.5	0.4	0.2	0.3	0.2	0.2	0.1	0.1	0.2	0.3	0.27	0.48
25-Nov-06	0.3	A	0.2	0.2	0.1	0.3	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.2	0.22	0.40
26-Nov-06	A	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.3	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	A	0.19	0.35
27-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.6	0.5	0.2	0.2	0.3	0.2	0.3	0.5	0.2	0.2	0.2	0.3	0.2	0.2	0.2	A	0.4	0.24	0.58
28-Nov-06	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.7	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.2	A	0.1	0.1	0.23	0.68
29-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.6	0.5	0.5	0.2	0.1	0.2	0.6	0.1	0.1	0.3	0.6	0.6	0.5	0.5	A	0.3	0.4	0.2	0.31	0.59
30-Nov-06	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	A	0.4	0.2	0.1	0.1	0.20	0.39
Hourly Avg	0.19	0.16	0.15	0.15	0.16	0.18	0.29	0.49	0.43	0.26	0.21	0.32	0.24	0.24	0.35	0.30	0.31	0.36	0.36	0.37	0.28	0.30	0.25	0.21		
Hourly Max	0.55	0.30	0.47	0.35	0.27	0.34	1.28	2.30	1.65	0.65	0.36	1.67	0.59	0.64	1.31	1.71	1.25	1.30	1.58	1.47	0.96	1.00	1.43	0.46		

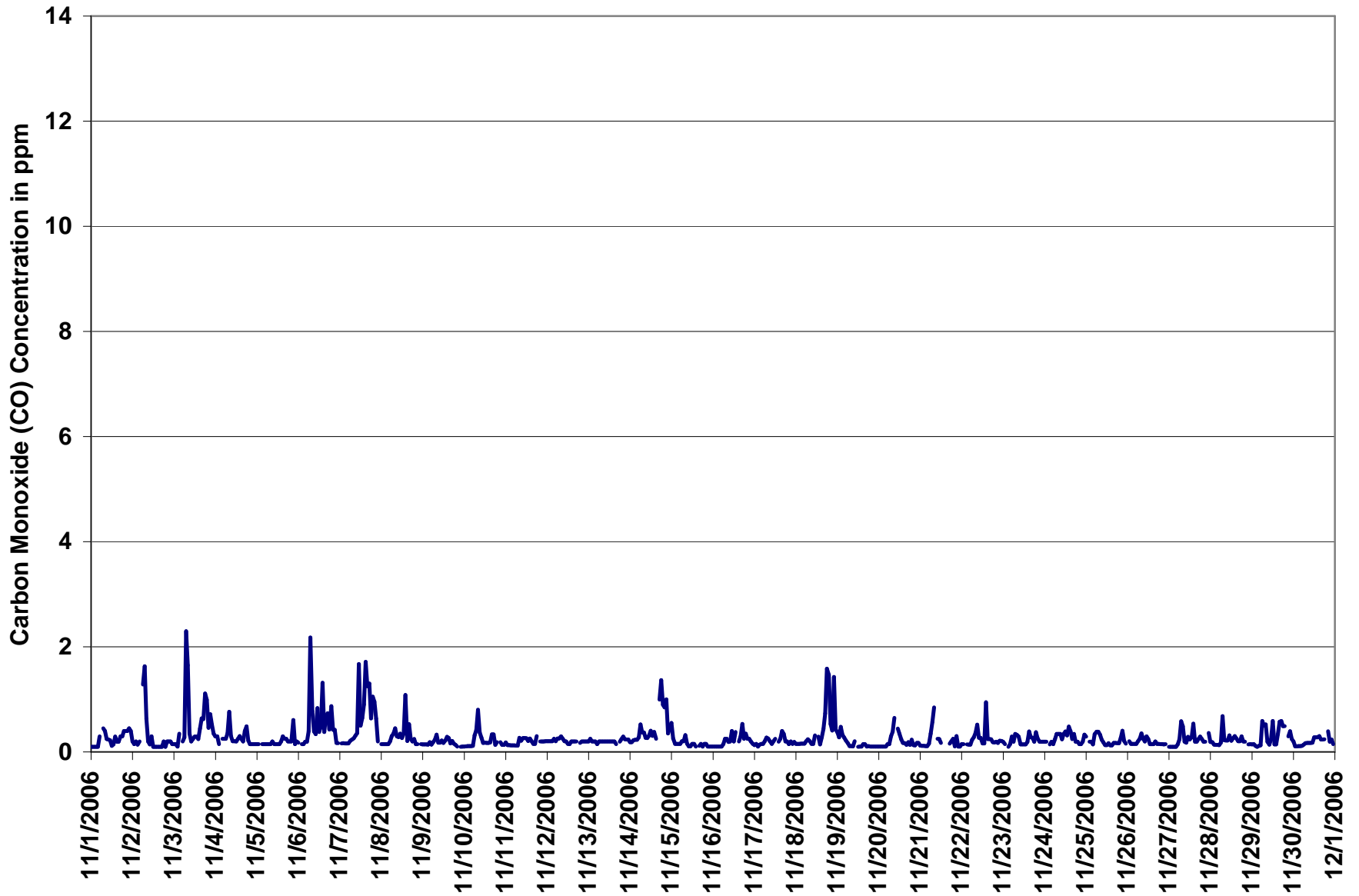
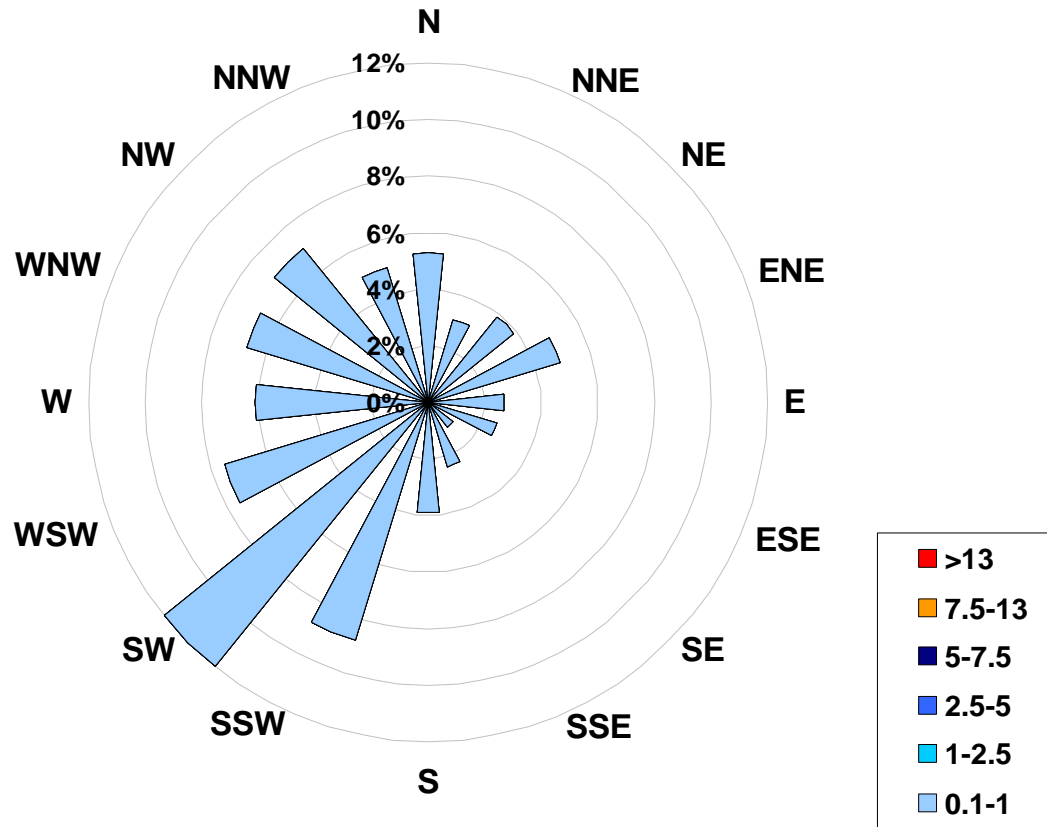


Figure 8. PAS - Crescent Heights Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of CO in ppm			Frequency (hrs)
Range			
0.1	<	1	684
1	to	2.5	0
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
	>	13	0
Total Non-Zero Values			684



PAS - Crescent Heights - Carbon Monoxide Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

EIGHT HOUR RUNNING AVERAGE TABLE

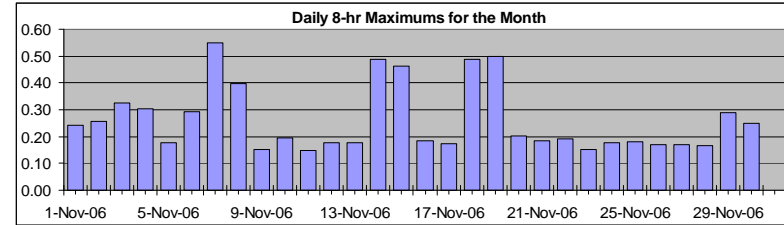
Carbon Monoxide (CO)

Monitoring Dates: November 1, 2006 to December 1, 2006

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

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	0.6	ppm	7-Nov	20:00	21:00		

Percentile	99	95	75	50	25	5	1
	0.5	0.3	0.2	0.2	0.1	0.1	0.1



Status Flag Characters

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

Day	Mountain Standard Time																							Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.24
2-Nov-06	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.26
3-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.33
4-Nov-06	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.30
5-Nov-06	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18
6-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.29
7-Nov-06	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.55
8-Nov-06	0.4	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.40
9-Nov-06	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15
10-Nov-06	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	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.20
11-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15
12-Nov-06	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18
13-Nov-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18
14-Nov-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.5	0.5	0.49
15-Nov-06	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.46
16-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19
17-Nov-06	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17
18-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.5	0.5	0.49
19-Nov-06	0.5	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.50
20-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.20
21-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	N	N	N	N	N	N	N	N	N	N	0.1	0.19
22-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.19
23-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.15
24-Nov-06	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18
25-Nov-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.18
26-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.17
27-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.17
28-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.17
29-Nov-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.29
30-Nov-06	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25

Hourly Max	0.50	0.47	0.39	0.31	0.28	0.27	0.23	0.22	0.27	0.28	0.29	0.30	0.29	0.31	0.30	0.33	0.39	0.46	0.49	0.51	0.55	0.54	0.49	0.49
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PAS - Crescent Heights - Total Hydrocarbons Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

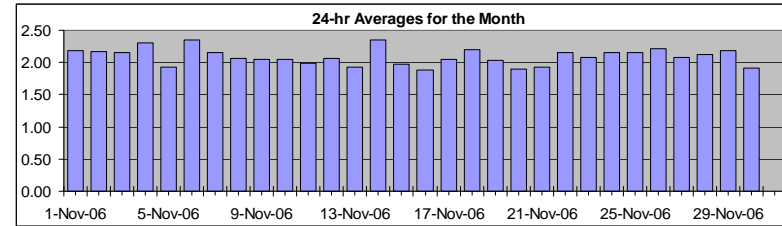
HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)

Monitoring Dates: November 1, 2006 to December 1, 2006

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

Maximum 1-hr Average:	2.9	ppm	7-Nov	17:00 18:00
Maximum 24-hr Value:	2.4	ppm	6-Nov	



AIC Time:	33 hrs	Operational Time:	685 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.6	2.5	2.2	2.1	2.0	1.8	1.7	2.1 ppm	2.1 ppm

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00
1-Nov-06	2.0	2.1	2.1	2.1	2.2	2.2	A	2.3	2.3	2.2	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.1	2.2	2.3	2.5	2.5	2.5	2.4	2.19	2.49	
2-Nov-06	2.3	2.2	2.3	2.3	2.3	A	2.3	2.7	2.4	2.3	2.2	2.2	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.3	2.1	2.3	2.1	2.17	2.68
3-Nov-06	2.1	2.1	2.0	2.1	A	2.4	2.4	2.4	2.3	2.2	2.4	2.2	2.1	2.1	1.9	1.9	2.0	2.0	2.2	2.2	2.3	2.2	2.1	2.15	2.44		
4-Nov-06	2.1	2.3	2.3	A	2.6	2.5	2.3	2.8	2.7	2.5	2.5	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.5	2.4	2.0	1.9	1.9	1.9	2.30	2.76	
5-Nov-06	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	1.9	1.9	2.0	2.0	2.1	2.3	1.93	2.28
6-Nov-06	2.2	A	2.4	2.5	2.5	2.4	2.4	2.5	2.5	2.4	2.4	2.3	2.3	2.2	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.5	2.5	1.9	1.9	2.35	2.52
7-Nov-06	A	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.0	2.1	2.2	2.3	2.5	2.5	2.6	2.9	2.9	2.7	2.4	2.0	1.9	A	2.16	2.94	
8-Nov-06	1.9	2.2	2.2	2.2	2.0	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.06	2.20
9-Nov-06	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.1	2.04	2.09	
10-Nov-06	2.1	2.2	2.1	2.2	2.2	2.1	2.2	2.3	2.3	2.2	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	2.05	2.32	
11-Nov-06	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	A	2.2	2.2	2.2	1.99	2.20	
12-Nov-06	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	A	1.9	1.9	1.9	2.0	2.06	2.26	
13-Nov-06	1.9	2.0	1.9	1.9	1.9	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	A	1.9	1.9	2.1	2.3	2.2	1.92	2.25	
14-Nov-06	2.2	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.1	2.1	2.1	A	2.3	2.4	2.5	2.5	2.6	2.4	2.3	2.35	2.58	
15-Nov-06	2.4	2.3	2.1	2.1	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	A	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.7	1.97	2.43	
16-Nov-06	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.9	1.9	1.9	1.9	A	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	1.89	2.14	
17-Nov-06	2.1	2.0	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	A	1.9	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.0	2.05	2.12	
18-Nov-06	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.1	2.2	2.2	2.4	2.6	2.8	2.5	2.4	2.5	2.5	2.20	2.83	
19-Nov-06	2.5	2.4	2.5	2.4	2.4	2.3	2.1	2.0	2.0	2.0	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	2.03	2.50	
20-Nov-06	1.9	1.8	1.9	1.8	1.9	1.8	1.8	1.9	1.9	2.0	A	2.1	2.0	1.9	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.90	2.11
21-Nov-06	2.0	2.0	2.2	1.9	2.0	2.0	1.9	2.0	2.0	A	2.0	1.9	1.8	1.8	1.7	1.8	C	C	A	2.0	1.9	1.9	1.9	1.9	1.93	2.25	
22-Nov-06	1.9	2.2	A	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.16	2.26
23-Nov-06	2.1	2.1	A	2.0	2.1	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	2.1	2.2	2.2	2.1	2.1	2.2	2.3	2.08	2.25
24-Nov-06	2.3	2.2	A	2.2	2.3	2.3	2.2	2.2	2.2	2.1	2.1	2.2	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.16	2.29
25-Nov-06	2.2	A	2.1	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.2	2.3	2.2	2.15	2.35
26-Nov-06	A	2.2	2.1	2.1	2.2	2.2	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	A	2.22	2.40	
27-Nov-06	2.1	2.1	2.1	2.0	2.1	2.0	2.1	2.0	2.1	2.0	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	A	2.1	2.07	2.14
28-Nov-06	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	A	2.1	2.1	2.13	2.19
29-Nov-06	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	A	2.2	2.2	2.18	2.32
30-Nov-06	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.0	1.9	2.0	2.0	2.0	A	2.0	2.0	2.0	1.91	2.02	
Hourly Avg	2.08	2.08	2.10	2.09	2.11	2.10	2.11	2.14	2.13	2.10	2.09	2.08	2.05	2.03	2.03	2.05	2.07	2.12	2.13	2.12	2.12	2.11	2.08	2.08			
Hourly Max	2.50	2.37	2.47	2.46	2.61	2.55	2.49	2.76	2.67	2.54	2.48	2.39	2.40	2.32	2.49	2.51	2.59	2.94	2.91	2.83	2.51	2.58	2.54	2.46			

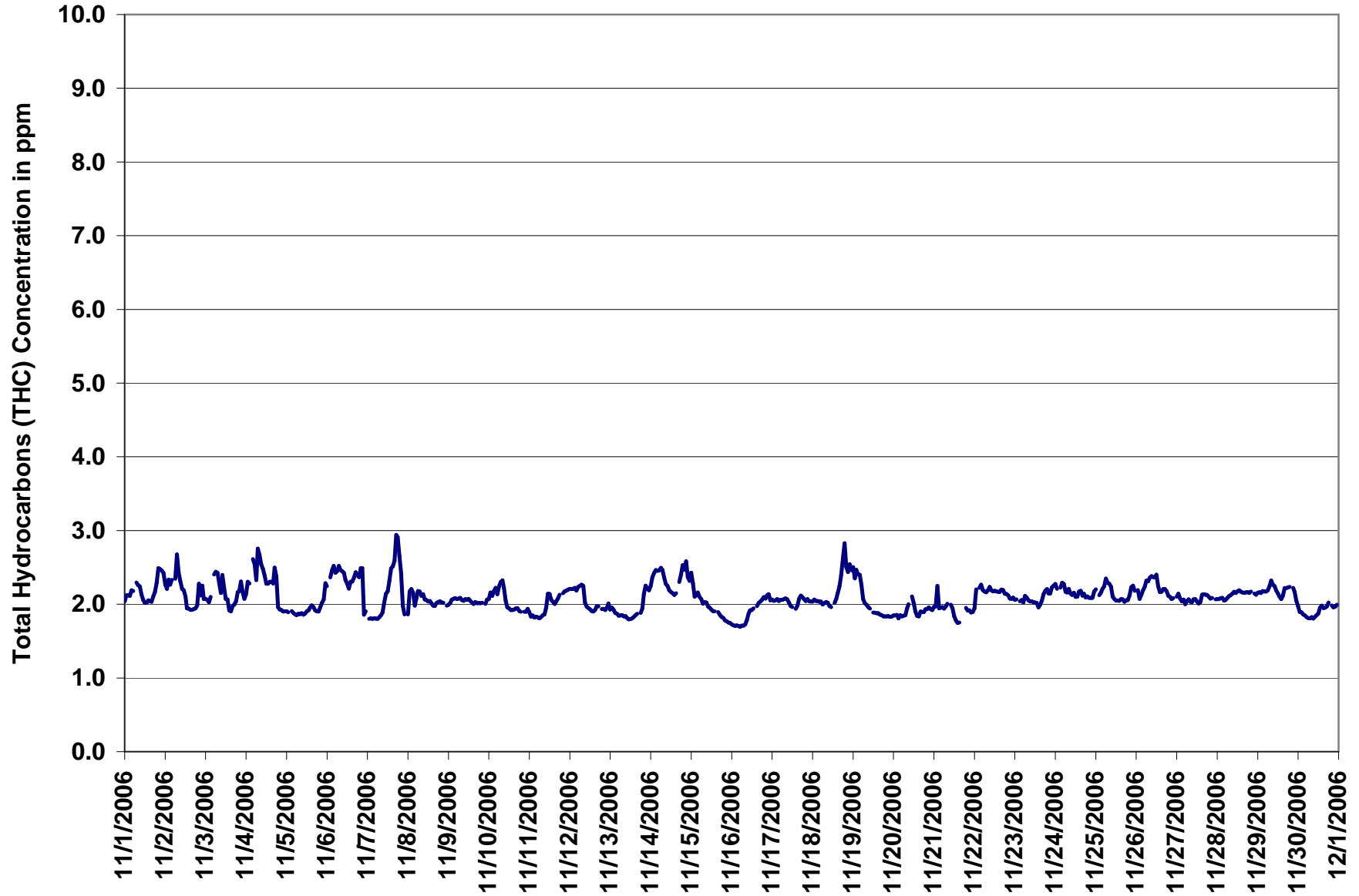


Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

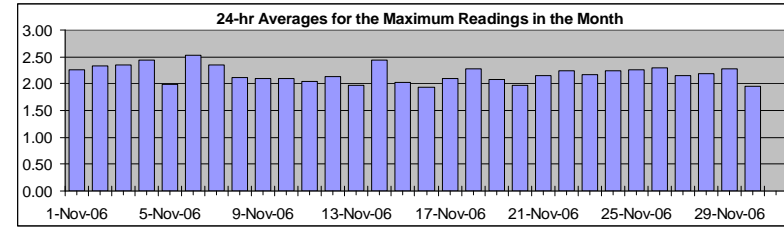
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Hydrocarbons (THC)

Monitoring Dates: November 1, 2006 to December 1, 2006

Summary

Maximum 1-hr Value:	4.8	ppm	21-Nov	2:00 3:00
Maximum 24-hr Value:	2.5	ppm	6-Nov	



AIC Time:	33 hrs	Operational Time:	685 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.0	2.7	2.3	2.1	2.0	1.9	1.8	2.2 ppm	2.1 ppm

Status Flag Characters

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

Day Mountain Standard Time

Hour Start 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-Nov-06	2.1	2.2	2.2	2.2	2.3	2.3	A	2.4	2.3	2.3	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.4	2.7	2.5	2.5	2.5	2.2	2.27	2.70
2-Nov-06	2.3	2.3	2.6	2.3	2.4	A	2.7	3.1	2.7	2.4	2.3	2.3	2.3	2.0	2.0	2.0	1.9	2.0	2.0	2.2	2.6	2.3	2.8	2.1	2.33	3.13
3-Nov-06	2.3	2.1	2.1	2.4	A	2.6	2.5	2.7	2.9	2.3	3.0	2.4	2.1	2.1	2.1	2.0	2.1	2.1	2.3	2.5	2.4	2.5	2.3	2.2	2.36	3.00
4-Nov-06	2.2	3.1	2.4	A	2.9	3.1	2.7	2.8	2.8	2.6	2.5	2.5	2.3	2.3	2.4	2.4	2.3	2.6	2.5	2.0	2.0	2.0	1.9	1.9	2.45	3.08
5-Nov-06	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.0	1.9	1.9	1.9	2.0	2.1	2.3	2.4	1.98	2.40
6-Nov-06	2.3	A	2.4	2.6	2.8	2.8	2.7	2.8	2.7	2.5	2.6	2.5	2.3	2.3	2.7	2.4	2.4	2.7	2.6	2.5	2.5	2.7	2.0	2.0	2.52	2.84
7-Nov-06	A	1.8	1.9	1.9	1.8	1.8	1.8	1.9	1.9	2.0	2.1	2.3	2.2	2.5	2.8	2.7	2.8	3.7	3.5	3.1	2.9	2.3	2.0	A	2.35	3.68
8-Nov-06	2.0	2.3	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.3	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	A	2.0	2.12	2.27
9-Nov-06	2.0	2.0	2.1	2.1	2.3	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.0	2.0	2.1	A	2.0	2.1	2.09	2.26
10-Nov-06	2.1	2.2	2.2	2.2	2.3	2.2	2.3	2.4	2.5	2.3	2.2	2.0	2.0	1.9	2.0	2.0	2.0	2.0	1.9	1.9	A	1.9	1.9	2.0	2.10	2.47
11-Nov-06	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	2.1	2.2	2.2	2.2	2.1	2.0	2.1	2.2	A	2.2	2.3	2.2	2.2	2.2	2.03	2.26
12-Nov-06	2.2	2.3	2.3	2.4	2.3	2.3	2.4	2.4	2.4	2.1	2.0	2.0	2.0	1.9	1.9	2.0	2.1	2.1	A	2.0	2.0	2.0	2.0	2.1	2.13	2.44
13-Nov-06	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	1.8	1.9	1.9	1.9	A	1.9	2.1	2.3	2.3	2.3	2.3	1.97	2.32
14-Nov-06	2.3	2.4	2.5	2.5	2.5	2.5	2.6	2.5	2.4	2.3	2.4	2.3	2.2	2.2	2.2	2.2	A	2.4	2.6	2.7	2.6	2.8	2.5	2.6	2.44	2.85
15-Nov-06	2.7	2.5	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	A	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	2.03	2.66
16-Nov-06	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.9	2.0	2.0	2.0	A	2.0	2.1	2.2	2.1	2.1	2.1	2.2	2.3	2.1	1.94	2.25
17-Nov-06	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	A	2.0	2.0	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.09	2.23
18-Nov-06	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.0	2.0	2.0	A	2.1	2.1	2.2	2.3	2.6	3.0	3.0	2.6	2.6	2.8	2.6	2.29	3.00
19-Nov-06	2.6	2.4	2.6	2.5	2.5	2.4	2.1	2.0	2.0	2.0	2.0	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.08	2.64
20-Nov-06	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.2	A	2.2	2.1	2.1	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	1.96	2.17
21-Nov-06	2.0	2.1	4.8	2.0	2.0	2.1	2.0	2.0	2.3	A	2.0	2.0	1.9	1.8	1.8	2.1	C	C	A	2.0	2.0	2.0	1.9	1.9	2.15	4.83
22-Nov-06	2.2	2.3	A	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.5	2.3	2.2	2.2	2.2	2.3	2.2	2.3	2.3	2.2	2.2	2.2	2.1	2.1	2.24	2.55
23-Nov-06	2.1	2.1	A	2.1	2.1	2.2	2.3	2.4	2.1	2.1	2.1	2.0	2.1	2.1	2.0	2.1	2.1	2.3	2.3	2.3	2.3	2.2	2.4	2.4	2.18	2.38
24-Nov-06	2.4	2.3	A	2.3	2.3	2.3	2.3	2.2	2.3	2.2	2.2	2.2	2.1	2.2	2.4	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.3	2.23	2.38
25-Nov-06	2.3	A	2.2	2.3	2.3	2.5	2.6	2.4	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.3	2.4	2.4	2.3	2.25	2.64
26-Nov-06	A	2.3	2.2	2.2	2.2	2.3	2.4	2.4	2.5	2.5	2.4	2.5	2.5	2.3	2.3	2.2	2.3	2.2	2.3	2.1	2.1	2.2	2.1	A	2.30	2.53
27-Nov-06	2.1	2.2	2.2	2.1	2.1	2.3	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	A	2.16	2.30
28-Nov-06	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.1	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	A	2.2	2.2	2.19	2.32
29-Nov-06	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.6	2.5	2.3	2.3	2.2	2.6	2.2	2.1	2.2	2.3	2.3	2.3	2.3	A	2.3	2.3	2.1	2.28	2.63
30-Nov-06	2.1	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.1	A	2.0	2.0	2.0	2.0	1.95	2.10
Hourly Avg	2.15	2.17	2.26	2.16	2.18	2.20	2.21	2.25	2.24	2.18	2.17	2.15	2.12	2.09	2.12	2.12	2.14	2.23	2.23	2.21	2.22	2.21	2.18	2.15		
Hourly Max	2.66	3.06	4.83	2.60	2.90	3.08	2.74	3.13	2.95	2.63	3.00	2.53	2.55	2.48	2.75	2.73	2.83	3.68	3.46	3.05	2.90	2.85	2.83	2.58		

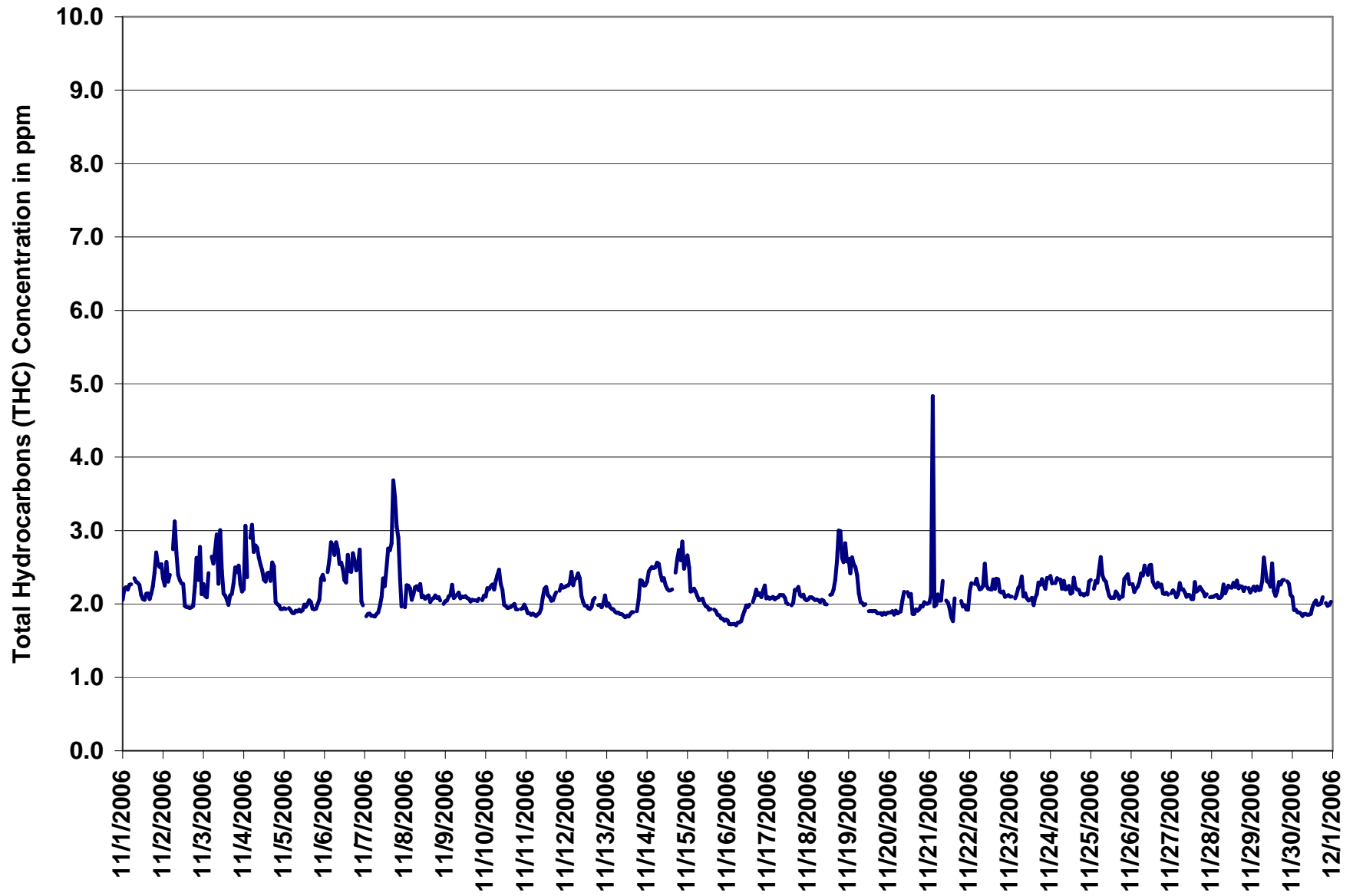
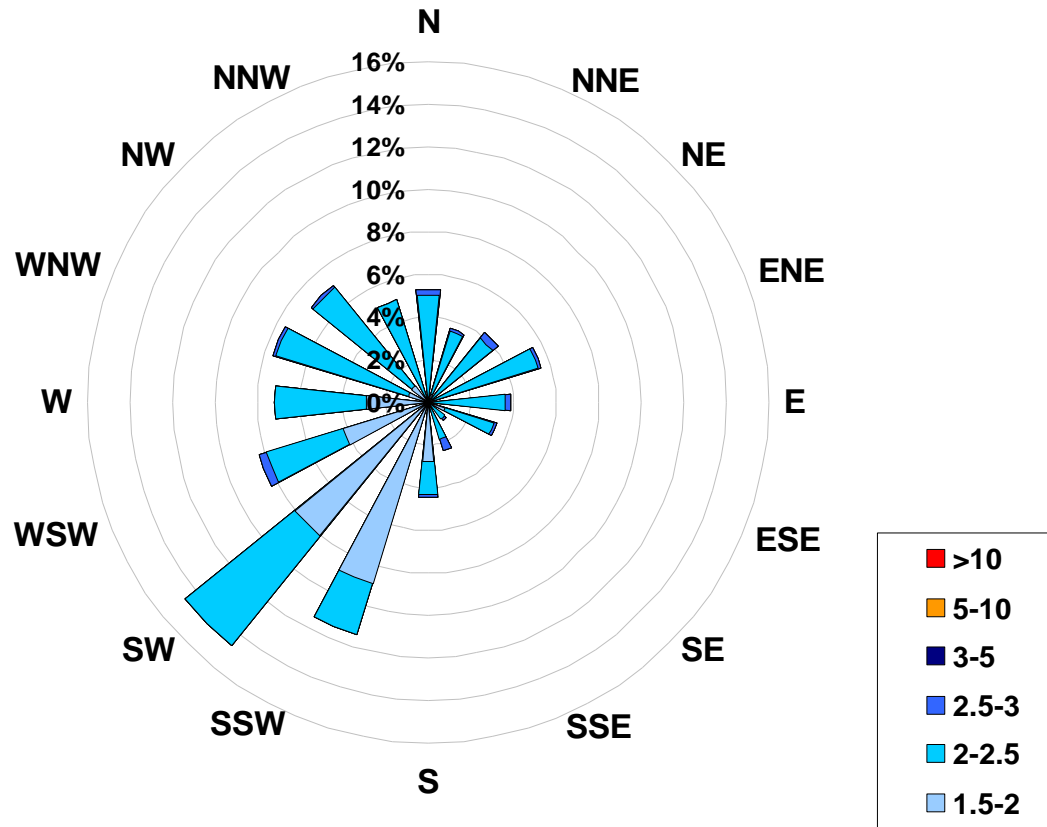


Figure 10. PAS - Crescent Heights Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of THC in ppm			Frequency (hrs)
Range			
1.5	< 2		223
2	to 2.5		442
2.5	to 3		20
3	to 5		0
5	to 10		0
	> 10		0
Total Non-Zero Values			685



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

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

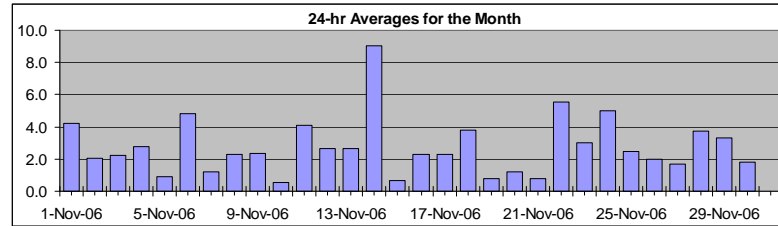
Particulate Matter (PM_{2.5})

Monitoring Dates: November 1, 2006 to December 1, 2006

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	19.4 μg/m ³ 2-Nov 8:00 9:00
Maximum 24-hr Value:	9.0 μg/m ³ 14-Nov

AIC Time:	0 hrs	Operational Time:	715 hrs							
Calibration Time:	2 hrs	AMD Operational Uptime:	99.6%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	12.2	8.3	3.8	2.1	0.7	0.0	0.0	2.7	2 μg/m ³	2.2 μg/m ³



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Nov-06	5	3	4	3	3	3	5	7	7	6	4	2	2	2	2	2	3	5	6	6	5	5	6	6	4.2	7.1	
2-Nov-06	4	3	3	2	2	0	D	4	19	2	0	0	0	0	0	0	0	0	1	1	1	2	1	2	2.1	19.4	
3-Nov-06	1	1	0	1	0	1	1	2	4	2	2	5	4	5	3	3	3	2	2	3	3	3	3	2	2.2	5.3	
4-Nov-06	1	2	2	3	5	5	3	5	4	4	3	4	4	3	3	4	3	6	3	0	0	0	0	0	2.8	5.6	
5-Nov-06	0	0	0	0	0	1	0	0	1	0	1	0	0	1	0	1	3	1	0	0	0	1	1	9	0.9	9.4	
6-Nov-06	12	12	8	8	11	8	5	5	5	4	4	3	3	1	5	2	3	5	3	0	2	6	3	0	4.8	11.9	
7-Nov-06	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	3	3	3	6	2	1	3	0	2	D	1.2	5.8
8-Nov-06	1	3	4	1	1	2	6	4	3	2	2	3	2	2	1	2	1	2	1	3	2	2	2	3	2.3	5.7	
9-Nov-06	3	3	4	3	4	4	4	5	3	3	2	2	2	2	0	2	2	1	2	1	1	1	1	1	2.3	4.6	
10-Nov-06	1	1	0	1	1	0	1	1	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	3.5	
11-Nov-06	0	0	1	0	0	0	0	2	4	0	1	4	4	7	6	7	8	6	8	8	9	8	8	8	4.1	9.0	
12-Nov-06	8	7	9	9	7	6	5	6	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2.7	9.5	
13-Nov-06	1	2	1	1	0	0	2	2	1	2	1	2	1	3	1	1	1	2	1	4	11	12	8	3	2.6	11.6	
14-Nov-06	4	6	8	9	10	13	14	16	13	9	10	6	8	7	7	8	7	8	12	9	10	10	8	4	9.0	16.3	
15-Nov-06	5	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	2	0.6	5.2	
16-Nov-06	0	0	1	1	0	0	3	1	3	8	3	4	3	3	3	3	1	2	2	4	5	3	2	2	2.3	7.6	
17-Nov-06	1	1	2	1	2	2	3	2	3	3	1	2	1	0	1	3	5	4	4	4	3	3	2	3	2.3	4.7	
18-Nov-06	1	2	2	2	2	1	6	2	3	3	1	1	0	3	4	4	3	6	12	14	7	4	5	4	3.8	13.6	
19-Nov-06	4	2	6	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0.8	6.2	
20-Nov-06	2	2	2	2	1	0	2	1	1	1	1	3	2	0	0	1	D	1	2	2	1	1	0	0	1.2	3.1	
21-Nov-06	0	0	0	0	0	0	3	2	3	3	4	0	0	0	0	0	0	0	0	2	1	0	0	0	0.8	3.9	
22-Nov-06	1	16	11	12	9	10	8	6	3	C	C	6	7	7	7	4	3	3	1	2	1	2	1	0	5.5	16.5	
23-Nov-06	1	0	0	0	0	2	5	3	4	3	3	3	3	4	4	4	6	5	6	5	3	4	2	3	3.0	5.8	
24-Nov-06	2	1	3	3	3	4	4	7	8	8	6	7	6	7	8	7	6	5	5	4	3	4	4	4	5.0	8.0	
25-Nov-06	4	2	3	2	3	3	3	4	4	4	1	2	1	2	2	3	2	2	2	2	2	3	3	3	2.5	3.8	
26-Nov-06	2	2	2	1	1	2	3	3	4	6	5	4	6	1	0	0	2	1	1	1	0	1	0	0	2.0	5.7	
27-Nov-06	0	0	1	0	1	1	1	1	2	2	1	1	1	1	3	3	3	3	2	3	2	2	2	3	1.7	2.8	
28-Nov-06	2	2	3	1	2	2	3	3	4	5	6	6	4	5	4	5	5	5	4	5	4	3	3	3	3.7	5.7	
29-Nov-06	4	3	3	4	3	4	4	5	7	4	5	4	3	2	1	2	2	2	2	5	3	2	3	3	3.3	6.8	
30-Nov-06	1	0	1	1	1	1	3	2	2	1	3	4	5	6	3	2	1	0	1	1	1	1	1	1	1.8	5.7	
Hourly Avg	2.4	2.8	2.8	2.4	2.5	2.5	3.4	3.4	4.1	3.0	2.5	2.6	2.4	2.5	2.4	2.5	2.6	2.8	2.8	3.0	2.8	2.8	2.4	2.4			
Hourly Max	11.9	16.5	10.9	11.7	10.7	12.5	14.5	16.3	19.4	9.2	10.3	7.1	8.5	7.0	7.8	8.0	7.7	7.9	12.2	13.6	10.7	11.6	8.4	9.4			

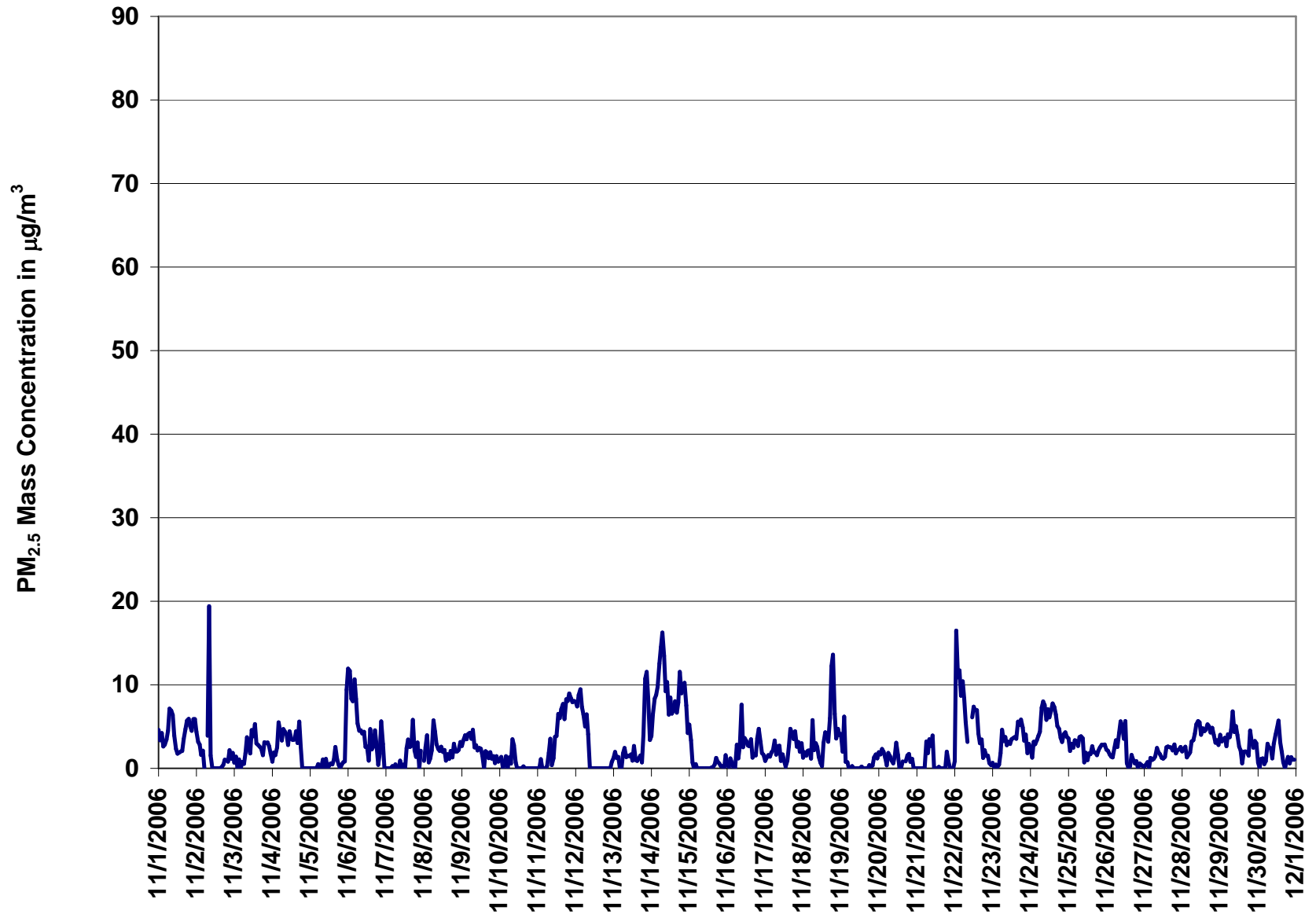


Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

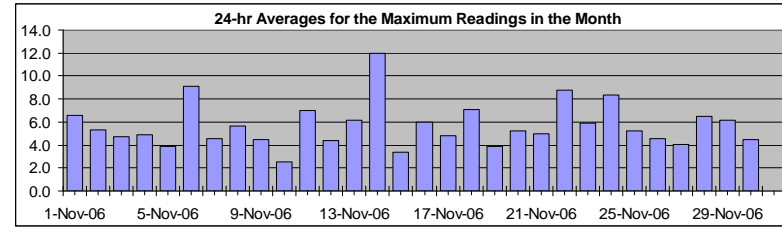
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: November 1, 2006 to December 1, 2006

Summary

Maximum 1-hr Average:	30.8	µg/m ³	2-Nov	8:00 9:00
Maximum 24-hr Value:	11.9	µg/m ³	14-Nov	



AIC Time:	0 hrs	Operational Time:	715 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	17.5	12.4	7.3	5.1	3.3	1.1	0.2	5.7	5 µg/m ³
									5.4 µg/m ³

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Nov-06	6	7	6	5	5	6	9	10	9	8	7	5	4	4	3	4	5	6	8	9	9	7	9	9	6.6	10.2
2-Nov-06	8	7	6	3	4	4	D	26	31	3	3	2	1	0	1	0	2	2	2	2	2	4	5	5	5.3	30.8
3-Nov-06	3	3	1	3	1	3	3	4	5	5	3	9	6	8	6	6	5	5	4	6	7	6	5	4	4.7	8.6
4-Nov-06	3	3	4	4	8	8	6	7	6	6	5	6	5	5	6	7	5	9	5	2	1	1	1	3	4.9	9.1
5-Nov-06	1	3	2	1	3	4	4	3	5	3	4	2	4	4	2	5	5	3	4	3	3	3	6	13	3.9	13.2
6-Nov-06	14	14	14	11	15	12	8	8	8	7	8	5	5	4	10	6	5	10	9	4	6	14	15	4	9.1	14.9
7-Nov-06	3	4	3	2	3	2	3	2	8	4	1	4	3	5	7	8	6	9	4	5	8	2	9	D	4.5	9.3
8-Nov-06	4	5	7	3	8	4	13	12	6	4	6	6	4	5	3	6	4	6	4	4	5	5	3	6	5.7	12.6
9-Nov-06	6	7	6	6	7	6	6	6	5	4	4	4	4	3	2	4	4	4	4	4	3	4	3	4	4.5	6.6
10-Nov-06	3	3	2	3	3	2	3	3	7	5	4	3	3	2	1	4	1	1	1	1	3	1	2	1	2.6	7.2
11-Nov-06	3	1	5	3	1	3	5	6	8	4	4	8	6	9	8	11	11	9	10	11	12	10	10	9	7.0	11.5
12-Nov-06	9	9	10	12	11	8	8	9	9	0	2	0	0	0	2	2	3	3	3	0	1	0	1	3	4.4	11.7
13-Nov-06	4	5	3	4	2	1	6	4	6	4	6	5	4	12	3	3	7	7	3	9	15	14	14	8	6.1	14.6
14-Nov-06	7	11	11	11	13	15	19	19	17	12	13	10	11	9	9	10	9	10	14	12	13	15	11	6	11.9	18.7
15-Nov-06	8	8	3	2	3	1	8	1	3	2	0	1	1	3	3	2	3	4	4	3	4	4	4	6	3.4	8.4
16-Nov-06	3	5	6	3	3	3	5	6	9	15	5	7	11	9	7	8	5	5	3	6	7	5	3	4	6.0	14.8
17-Nov-06	3	3	5	3	3	4	8	8	5	5	3	6	3	2	4	6	8	7	5	7	5	5	4	5	4.8	8.3
18-Nov-06	3	4	3	5	4	3	23	3	6	5	4	2	1	6	7	6	7	12	18	18	9	6	8	5	7.1	22.9
19-Nov-06	8	5	17	3	3	1	2	4	1	2	2	0	0	5	3	4	2	2	3	4	4	5	5	6	3.8	17.3
20-Nov-06	8	7	5	5	6	5	11	4	6	4	6	6	5	3	5	4	D	6	7	7	5	4	1	0	5.3	11.4
21-Nov-06	0	0	1	0	2	2	11	6	7	7	14	7	10	9	6	5	6	4	2	6	3	3	3	7	5.0	13.9
22-Nov-06	14	23	15	13	11	12	12	8	6	C	C	8	10	10	13	7	5	5	4	4	4	4	3	3	8.8	22.8
23-Nov-06	4	2	3	2	5	4	10	9	7	6	6	6	6	7	5	5	8	8	8	9	6	6	5	6	5.9	9.9
24-Nov-06	5	4	8	9	8	9	12	11	12	15	10	9	8	9	10	10	9	7	7	6	5	6	6	6	8.3	14.8
25-Nov-06	7	4	6	6	6	6	6	6	7	7	4	6	3	4	3	5	4	4	4	5	4	6	5	7	5.2	7.2
26-Nov-06	6	5	3	4	3	6	6	4	7	10	9	7	9	3	2	2	4	4	2	3	2	3	3	2	4.6	10.2
27-Nov-06	2	3	3	2	4	3	3	5	4	4	3	3	3	3	6	5	5	6	6	5	5	4	5	7	4.1	7.3
28-Nov-06	5	4	6	4	4	5	6	6	6	9	9	8	8	7	7	7	7	7	7	7	7	5	8	6	6.5	9.1
29-Nov-06	7	5	6	7	6	7	6	8	9	6	7	7	5	4	3	5	5	4	4	8	8	4	9	6	6.1	9.5
30-Nov-06	3	3	3	5	5	4	7	9	5	4	6	8	8	7	6	4	3	2	2	3	2	3	2	3	4.5	8.7
Hourly Avg	5.4	5.6	5.8	4.8	5.3	5.1	7.9	7.2	7.6	5.9	5.4	5.4	5.1	5.4	5.1	5.4	5.4	5.8	5.3	5.7	5.6	5.4	5.6	5.4		
Hourly Max	14.3	22.8	17.3	13.3	14.5	15.1	22.9	25.7	30.8	14.8	13.9	10.4	11.0	12.2	13.0	10.6	11.5	12.3	17.6	17.9	14.6	15.1	14.9	13.2		

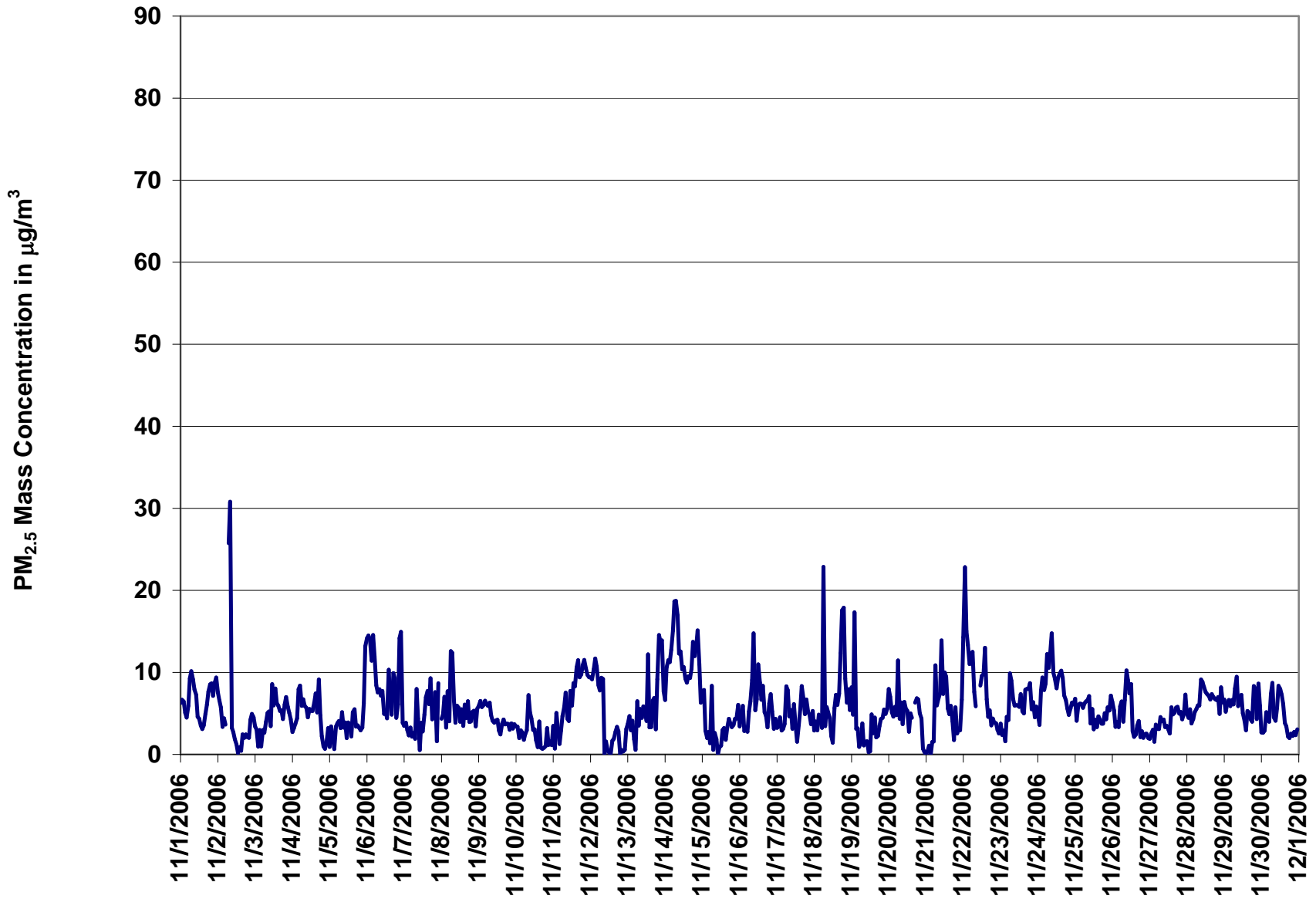
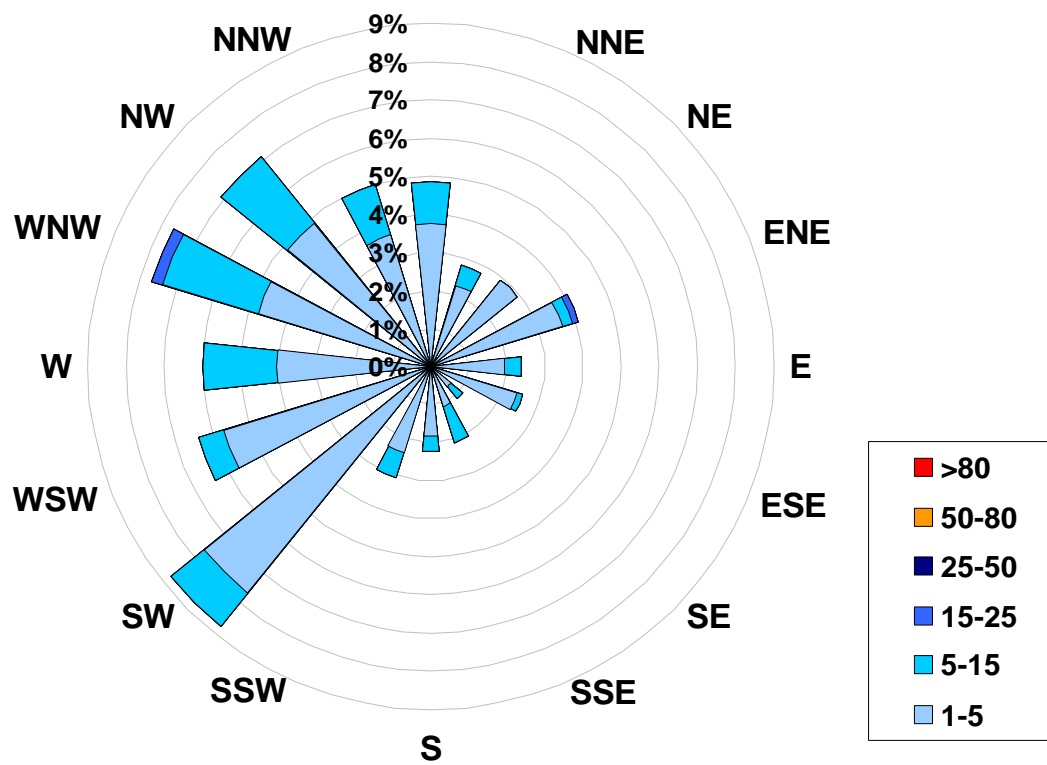


Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend



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 November 2006



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	604
5	to	15	108
15	to	25	3
25	to	50	0
50	to	80	0
	>	80	0
Total Non-Zero Values			715



PAS - Crescent Heights - Relative Humidity Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

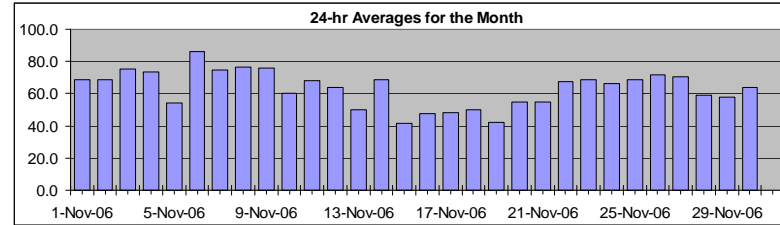
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: November 1, 2006 to December 1, 2006

Summary

Maximum 1-hr Average:	90.5	%	6-Nov	19:00 20:00
Maximum 24-hr Value:	86.2	%	6-Nov	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	87.7	84.5	74.7	65.1	54.6	35.6	26.0	63.3 %	65.1 %

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Nov-06	65	66	68	69	70	74	77	77	71	67	65	58	55	55	56	58	63	69	73	76	76	77	78	78		68.4	78.4	
2-Nov-06	78	77	78	78	78	79	78	78	69	68	62	60	53	47	52	55	59	61	64	66	67	70	85	87		68.7	86.9	
3-Nov-06	87	86	85	85	83	81	84	83	79	68	66	57	57	58	59	60	67	74	77	81	83	85	85	84		75.5	86.8	
4-Nov-06	85	85	86	85	84	84	84	85	83	80	79	74	67	60	61	64	69	76	76	67	66	62	56	54		73.8	85.5	
5-Nov-06	53	53	53	54	55	59	63	66	68	61	52	45	38	37	35	36	40	47	50	50	62	69	71	82		54.1	81.9	
6-Nov-06	84	86	87	88	85	87	88	88	88	86	85	86	85	84	83	86	88	88	89	90	90	90	78	77		86.2	90.5	
7-Nov-06	68	66	73	73	74	76	75	75	76	72	70	67	75	74	72	73	76	77	77	83	84	77	78	76		74.5	84.3	
8-Nov-06	76	83	85	87	80	78	80	81	79	77	76	74	74	71	71	73	74	72	71	70	69	71	76	83		76.6	86.9	
9-Nov-06	82	79	79	80	78	80	77	77	78	77	76	75	74	71	69	67	69	73	74	75	76	76	77	78		75.8	81.7	
10-Nov-06	79	80	80	80	80	82	83	84	81	75	61	49	50	44	47	46	44	45	41	39	39	42	46	48		60.1	83.7	
11-Nov-06	49	49	52	56	57	58	60	66	69	69	64	62	65	73	76	77	77	77	77	78	78	81	82	81		68.1	81.5	
12-Nov-06	81	80	80	80	82	84	85	84	75	62	55	48	44	43	44	46	48	49	52	57	63	65	64	62		63.9	84.8	
13-Nov-06	57	53	49	45	45	41	41	43	42	43	46	49	50	51	44	40	37	38	38	46	74	81	76	71		50.0	81.1	
14-Nov-06	73	71	71	70	70	71	70	69	66	62	64	64	62	62	59	58	62	68	73	76	76	78	76	74		68.5	77.9	
15-Nov-06	76	74	65	65	64	58	51	45	38	31	23	24	25	26	22	23	26	31	36	38	40	40	39	38		41.6	76.3	
16-Nov-06	41	41	43	48	49	52	58	55	47	48	49	47	42	43	42	42	43	39	40	43	52	62	65	60		47.9	65.1	
17-Nov-06	59	58	57	57	58	59	59	62	55	50	41	38	35	30	28	29	34	39	45	51	52	55	56	56		48.4	62.2	
18-Nov-06	56	55	51	56	56	55	53	55	52	48	42	36	32	31	31	33	38	44	51	59	62	64	68	71		50.0	71.5	
19-Nov-06	73	74	72	72	70	54	42	38	34	33	32	30	28	26	26	30	32	33	33	32	33	35	38	44		42.3	73.7	
20-Nov-06	47	50	53	54	57	58	62	63	66	67	63	62	61	48	40	45	32	35	42	52	59	65	66	70		54.8	70.0	
21-Nov-06	71	65	62	60	57	61	60	59	64	61	59	55	50	41	43	45	46	50	53	53	54	48	48	48		54.7	70.6	
22-Nov-06	50	75	80	81	80	80	78	76	73	69	68	65	62	62	61	58	59	61	60	60	62	63	66	67		67.3	80.7	
23-Nov-06	69	73	74	76	77	74	77	76	75	69	63	69	64	62	59	50	50	58	65	68	69	70	72	73	73		68.5	77.3
24-Nov-06	72	69	68	67	66	65	61	63	63	65	66	69	68	66	68	66	67	64	70	66	64	64	66	66		66.2	71.8	
25-Nov-06	66	65	67	69	71	71	71	73	70	68	64	61	57	60	63	68	71	72	71	72	74	75	74	74		68.7	74.7	
26-Nov-06	74	74	74	74	74	73	72	70	70	67	66	67	70	70	69	69	69	73	74	75	75	75	75	75		71.9	75.1	
27-Nov-06	75	75	75	76	76	76	76	76	76	75	74	72	70	69	67	67	67	67	66	65	64	64	65	67		70.7	76.1	
28-Nov-06	65	64	65	65	64	62	62	61	61	60	58	56	56	55	55	55	55	55	55	55	56	55	57	59		58.8	65.1	
29-Nov-06	62	62	61	60	59	59	58	61	60	56	54	53	50	47	43	44	55	62	64	66	66	64	64	57		57.8	66.3	
30-Nov-06	51	50	54	61	64	65	67	67	67	62	58	59	81	86	82	77	76	64	61	60	56	53	54	54		63.8	86.0	
Hourly Avg	67.5	67.9	68.2	69.0	68.8	68.6	68.4	68.5	66.4	63.4	60.3	57.5	56.5	55.1	54.1	54.6	56.7	58.9	60.7	62.5	64.7	65.9	66.7	67.2				
Hourly Max	86.8	86.0	87.4	87.5	85.2	87.0	87.7	88.1	87.7	86.2	85.5	85.7	85.3	86.0	83.3	85.8	88.2	88.0	89.2	90.5	90.5	90.4	85.3	86.9				

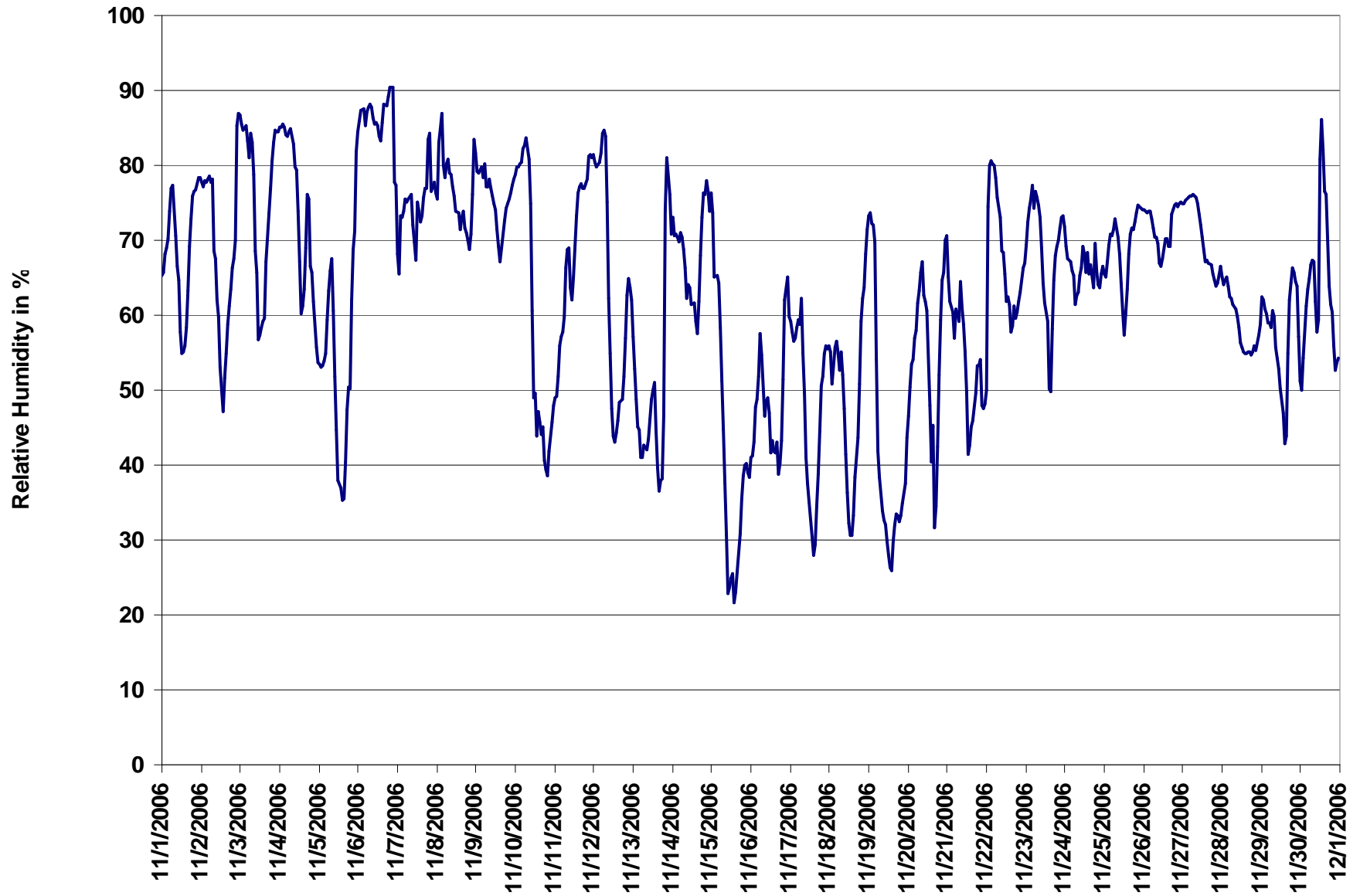


Figure 13. PAS - Crescent Heights Relative Humidity 1-hr Average Monthly Trend



PAS - Crescent Heights - Temperature Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

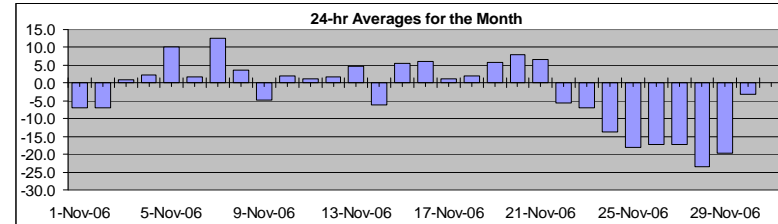
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: November 1, 2006 to December 1, 2006

Summary

Maximum 1-hr Average:	15.4	°C	5-Nov	12:00 13:00
Maximum 24-hr Value:	12.5	°C	7-Nov	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	13.8	12.0	5.5	-2.2	-8.0	-22.0	-24.1	-2.5 °C	-2.2 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-Nov-06	-6	-6	-6	-7	-8	-10	-11	-12	-11	-8	-6	-4	-3	-3	-2	-3	-4	-5	-7	-8	-9	-10	-11	-12	-7.1	-2.2	
2-Nov-06	-13	-13	-13	-14	-14	-14	-14	-14	-11	-9	-7	-4	-2	0	0	-1	-2	-2	-3	-3	-3	-4	-4	-4	-7.0	-0.2	
3-Nov-06	-4	-3	-3	-3	-4	-4	-5	-4	-3	0	1	5	6	7	8	9	7	5	4	3	2	1	1	2	1.0	8.6	
4-Nov-06	0	-1	-2	-3	-3	-3	-4	-4	-4	-3	0	2	0	4	7	7	6	5	4	5	9	9	10	11	2.3	10.5	
5-Nov-06	11	11	11	11	11	10	9	8	8	10	12	14	15	15	15	15	14	11	10	10	6	4	3	-2	10.2	15.4	
6-Nov-06	-3	-4	-4	-4	-3	-2	-1	-1	0	1	3	4	3	3	3	3	3	4	3	3	3	5	13	13	1.8	12.7	
7-Nov-06	15	15	13	14	14	13	13	13	13	13	12	13	10	11	12	12	11	12	12	11	11	12	12	12	12.5	15.1	
8-Nov-06	10	7	5	4	5	4	3	2	3	3	4	4	5	5	5	5	4	3	2	1	1	1	0	-2	3.6	10.4	
9-Nov-06	-2	-3	-3	-4	-4	-5	-5	-5	-6	-6	-5	-5	-5	-5	-5	-5	-5	-5	-6	-5	-5	-5	-5	-5	-4.9	-2.5	
10-Nov-06	-5	-5	-5	-4	-4	-4	-4	-5	-4	-1	3	5	6	7	7	7	6	6	6	6	7	7	6	5	1.9	7.5	
11-Nov-06	5	6	6	6	6	6	5	4	4	3	4	3	2	-1	-2	-3	-3	-3	-3	-3	-4	-4	-4	-3	1.3	6.3	
12-Nov-06	-3	-3	-3	-3	-3	-4	-5	-5	-3	1	4	6	7	7	7	7	6	5	5	4	3	3	3	2	1.6	7.4	
13-Nov-06	3	3	4	4	4	4	4	5	5	6	7	8	8	8	9	8	8	7	6	5	2	0	-2	-4	4.7	8.9	
14-Nov-06	-6	-7	-7	-8	-8	-8	-7	-8	-8	-7	-7	-6	-5	-5	-4	-3	-3	-4	-5	-7	-7	-7	-7	-6	-6.3	-2.5	
15-Nov-06	-6	-5	-3	-3	-2	0	1	2	3	5	7	7	7	8	9	10	10	10	11	11	12	12	12	12	5.4	12.2	
16-Nov-06	12	12	11	10	10	10	8	9	10	10	7	6	6	5	5	4	3	3	2	2	1	0	-1	-1	6.0	12.0	
17-Nov-06	-1	-1	-1	-1	-2	-2	-2	-3	-1	1	4	5	6	8	8	8	8	6	4	1	-1	-1	-2	-2	1.1	8.4	
18-Nov-06	-2	-2	-1	-2	-1	-1	0	-1	0	2	5	8	9	10	10	9	7	4	2	0	-2	-2	-3	-4	1.9	10.1	
19-Nov-06	-5	-5	-5	-5	-4	1	4	5	7	8	8	9	10	12	12	10	9	9	10	10	10	10	10	8	5.8	12.0	
20-Nov-06	8	8	9	10	9	10	9	8	7	6	7	8	9	12	14	13	12	10	8	5	3	3	3	1	8.0	13.8	
21-Nov-06	0	1	1	2	3	2	2	2	1	3	6	8	11	14	14	13	12	10	9	10	10	9	9	8	6.6	13.7	
22-Nov-06	5	-3	-4	-4	-4	-6	-6	-7	-7	-8	-8	-7	-6	-6	-5	-5	-5	-6	-7	-7	-7	-7	-8	-8	-5.7	5.3	
23-Nov-06	-9	-9	-9	-9	-9	-7	-9	-10	-9	-8	-7	-5	-4	-2	3	2	-3	-6	-8	-8	-9	-10	-11	-13	-7.0	2.7	
24-Nov-06	-13	-13	-14	-14	-13	-14	-14	-14	-14	-14	-13	-14	-14	-13	-14	-13	-14	-14	-14	-14	-14	-14	-15	-17	-13.9	-12.8	
25-Nov-06	-18	-18	-19	-19	-20	-20	-20	-20	-20	-19	-18	-17	-16	-16	-17	-17	-17	-17	-17	-17	-18	-18	-18	-18	-18.1	-15.8	
26-Nov-06	-18	-17	-17	-17	-17	-18	-20	-22	-22	-20	-17	-16	-17	-17	-17	-16	-16	-16	-16	-16	-16	-15	-15	-15	-17.3	-15.2	
27-Nov-06	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-16	-16	-16	-17	-19	-20	-20	-21	-21	-21	-22	-22	-17.1	-14.7	
28-Nov-06	-22	-23	-23	-23	-23	-23	-23	-23	-23	-23	-24	-23	-24	-24	-23	-24	-24	-24	-24	-24	-24	-24	-25	-25	-25	-23.6	-22.2
29-Nov-06	-24	-24	-23	-23	-23	-23	-23	-24	-25	-23	-22	-20	-18	-16	-14	-13	-16	-19	-20	-20	-18	-16	-15	-11	-19.7	-10.9	
30-Nov-06	-8	-6	-5	-5	-4	-4	-3	-2	-2	-2	-1	-1	-2	-1	-1	-1	-2	-3	-5	-5	-5	-3	-3	-4	-3.2	-0.6	
Hourly Avg	-3.8	-4.1	-4.1	-4.2	-4.3	-4.2	-4.4	-4.7	-4.2	-3.2	-1.9	-0.9	-0.2	0.5	1.0	0.7	-0.3	-1.3	-2.0	-2.3	-2.7	-3.0	-3.0	-3.5			
Hourly Max	14.6	15.1	13.3	13.7	13.6	13.1	13.4	13.1	12.7	13.5	12.3	14.2	15.4	15.3	15.2	15.0	13.8	11.5	12.1	11.5	11.8	12.4	12.7	12.6			

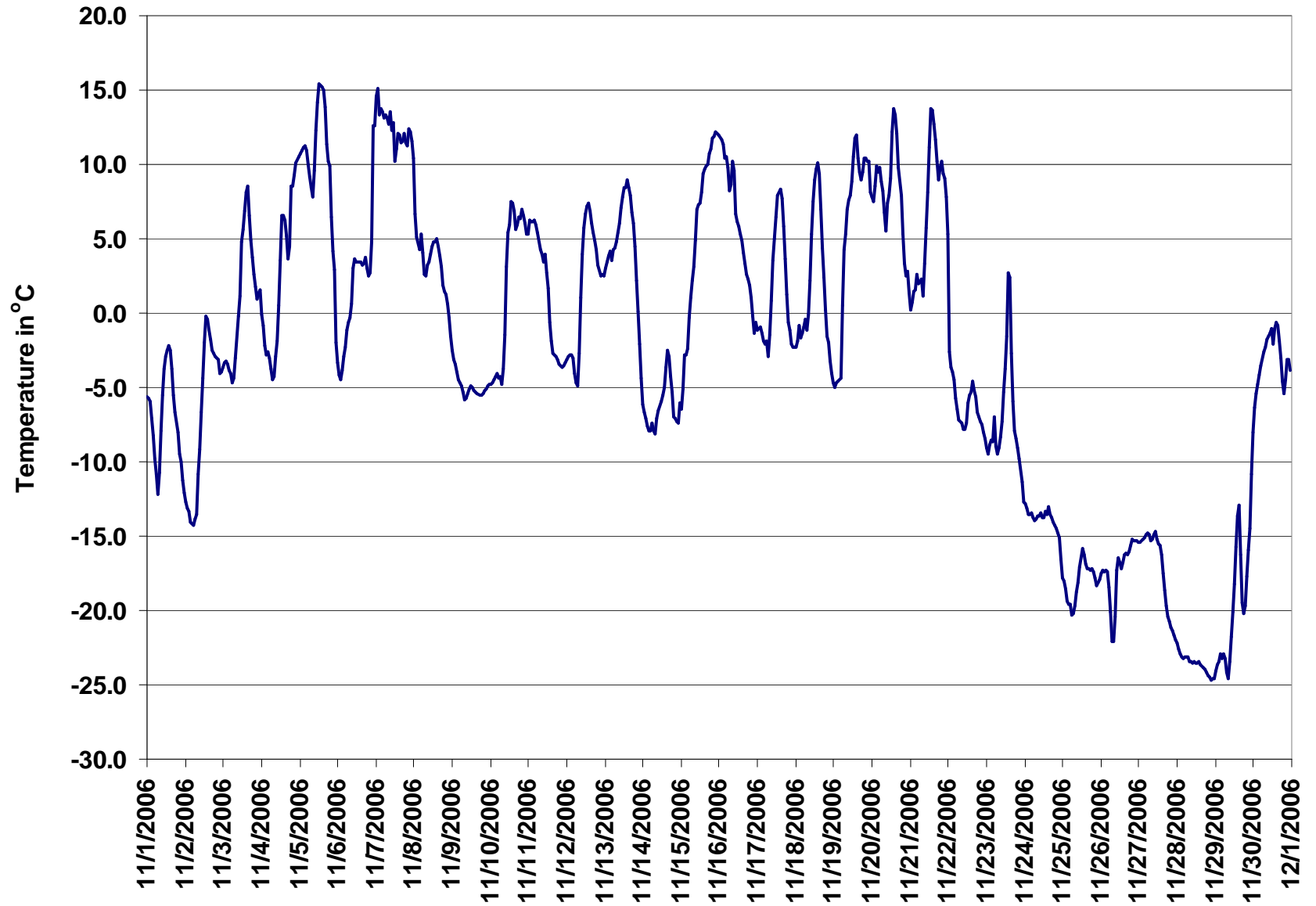


Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend



PAS - Crescent Heights - Solar Radiation Monthly Summary

Station: Crescent Heights
Station Owner: PAS

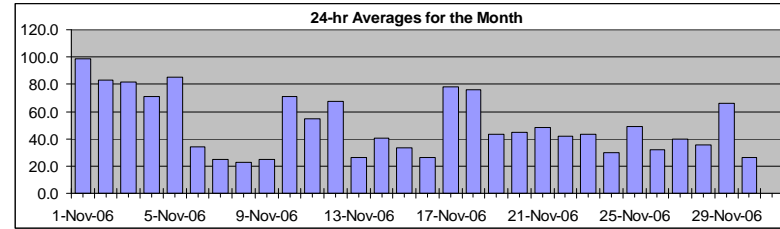
HOURLY AVERAGE TABLE

Solar Radiation (SR)

Monitoring Dates: November 1, 2006 to December 1, 2006

Summary

Maximum 1-hr Average:	410.7	W/m ²	3-Nov	11:00 12:00
Maximum 24-hr Value:	98.5	W/m ²	1-Nov	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	358.9	278.0	72.8	0.1	0.0	0.0	0.0	50.0 W/m ²	0.1 W/m ²

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Nov-06	0	0	0	0	0	0	0	0	25	138	264	363	410	410	376	191	152	34	1	0	0	0	0	0	0	98.5	410.4
2-Nov-06	0	0	0	0	0	0	0	0	24	153	263	351	329	278	301	177	91	22	0	0	0	0	0	0	0	82.9	351.0
3-Nov-06	0	0	0	0	0	0	0	0	10	108	223	258	411	294	325	164	136	22	0	0	0	0	0	0	0	81.4	410.7
4-Nov-06	0	0	0	0	0	0	0	0	10	79	162	166	327	319	347	166	96	23	0	0	0	0	0	0	0	70.7	347.4
5-Nov-06	0	0	0	0	0	0	0	0	7	55	168	339	392	388	355	164	147	29	0	0	0	0	0	0	0	85.2	391.5
6-Nov-06	0	0	0	0	0	0	0	0	3	31	138	166	139	140	122	50	20	6	0	0	0	0	0	0	0	34.1	166.2
7-Nov-06	0	0	0	0	0	0	0	0	2	23	78	103	111	83	72	78	35	7	0	0	0	0	0	0	0	24.7	111.0
8-Nov-06	0	0	0	0	0	0	0	0	3	21	57	76	78	74	69	93	53	21	0	0	0	0	0	0	0	22.7	93.2
9-Nov-06	0	0	0	0	0	0	0	0	5	23	42	82	113	114	94	76	31	9	0	0	0	0	0	0	0	24.6	113.9
10-Nov-06	0	0	0	0	0	0	0	0	6	61	205	286	278	263	343	177	75	13	0	0	0	0	0	0	0	71.1	343.1
11-Nov-06	0	0	0	0	0	0	0	0	3	29	124	251	360	321	134	52	36	9	0	0	0	0	0	0	0	55.0	359.8
12-Nov-06	0	0	0	0	0	0	0	0	11	109	191	271	326	298	231	127	52	9	0	0	0	0	0	0	0	67.8	326.4
13-Nov-06	0	0	0	0	0	0	0	0	2	31	67	72	82	106	112	96	46	9	0	0	0	0	0	0	0	26.0	111.6
14-Nov-06	0	0	0	0	0	0	0	0	4	78	156	89	107	96	107	199	119	16	0	0	0	0	0	0	0	40.5	198.9
15-Nov-06	0	0	0	0	0	0	0	0	3	50	181	216	158	69	55	42	23	4	0	0	0	0	0	0	0	33.4	216.2
16-Nov-06	0	0	0	0	0	0	0	0	4	71	38	111	135	129	81	46	16	3	0	0	0	0	0	0	0	26.5	135.3
17-Nov-06	0	0	0	0	0	0	0	0	4	79	198	290	345	342	312	182	97	17	0	0	0	0	0	0	0	77.8	345.1
18-Nov-06	0	0	0	0	0	0	0	0	3	73	191	281	335	333	301	186	102	15	0	0	0	0	0	0	0	75.9	335.0
19-Nov-06	0	0	0	0	0	0	0	0	2	48	91	133	188	157	216	140	61	7	0	0	0	0	0	0	0	43.4	216.5
20-Nov-06	0	0	0	0	0	0	0	0	1	50	56	203	110	117	258	184	78	13	0	0	0	0	0	0	0	44.6	258.1
21-Nov-06	0	0	0	0	0	0	0	0	1	12	118	136	145	302	250	130	53	7	0	0	0	0	0	0	0	48.2	301.8
22-Nov-06	0	0	0	0	0	0	0	0	1	17	51	88	159	220	232	126	106	11	0	0	0	0	0	0	0	42.2	231.9
23-Nov-06	0	0	0	0	0	0	0	0	1	28	86	124	181	152	215	151	87	9	0	0	0	0	0	0	0	43.1	214.9
24-Nov-06	0	0	0	0	0	0	0	0	0	8	40	102	113	165	136	71	58	20	0	0	0	0	0	0	0	29.7	165.4
25-Nov-06	0	0	0	0	0	0	0	0	1	25	152	178	277	315	130	65	31	4	0	0	0	0	0	0	0	49.1	315.0
26-Nov-06	0	0	0	0	0	0	0	0	1	24	73	144	166	141	105	82	34	2	0	0	0	0	0	0	0	32.2	166.4
27-Nov-06	0	0	0	0	0	0	0	0	0	21	69	118	149	187	222	139	51	5	0	0	0	0	0	0	0	40.1	222.2
28-Nov-06	0	0	0	0	0	0	0	0	0	21	71	117	156	170	152	114	46	6	0	0	0	0	0	0	0	35.6	169.7
29-Nov-06	0	0	0	0	0	0	0	0	1	37	154	245	304	307	278	154	89	6	0	0	0	0	0	0	0	65.8	306.8
30-Nov-06	0	0	0	0	0	0	0	0	1	18	78	102	111	80	105	73	46	8	0	0	0	0	0	0	0	26.0	111.1
Hourly Avg	0.0	0.0	0.1	0.0	0.0	0.0	0.0	4.6	50.7	126.2	182.1	216.5	212.3	201.3	123.2	68.9	12.3	0.1	0.0	0.1	0.0	0.1	0.1	0.0	0.0	98.5	410.4
Hourly Max	0.2	0.2	0.3	0.2	0.2	0.2	0.3	25.3	152.8	264.3	362.9	410.7	409.6	375.6	198.9	151.6	34.2	0.5	0.2	0.2	0.4	0.4	0.2	0.2	0.2	98.5	410.4

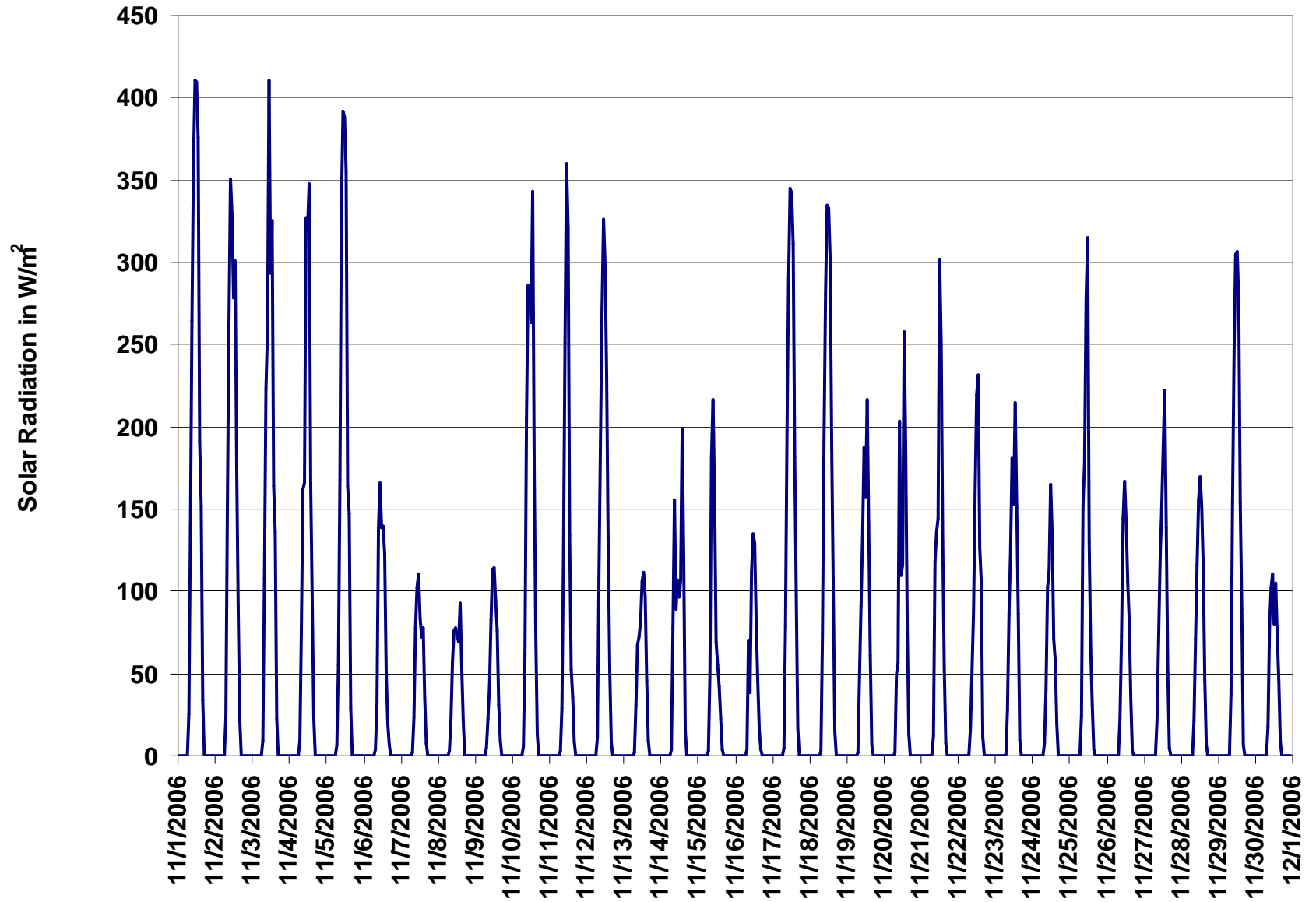


Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend



PAS - Crescent Heights - Scalar Wind Speed Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

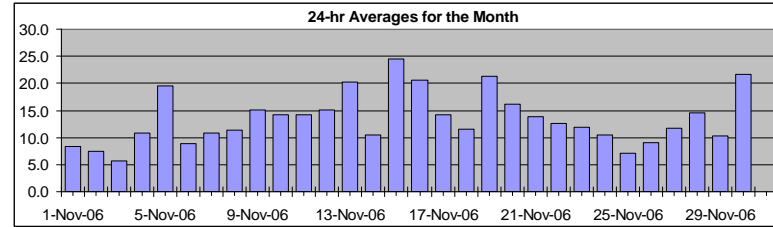
Wind Speed (WSs)

Monitoring Dates: November 1, 2006 to December 1, 2006

Summary

Maximum 1-hr Average:	39.4	km/hr	16-Nov	5:00 6:00
Maximum 24-hr Value:	24.5	km/hr	15-Nov	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	34.4	29.6	16.7	11.9	7.6	4.3	3.3	13.5 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
1-Nov-06	13	12	10	10	12	9	7	6	7	8	9	8	9	10	10	10	9	6	6	5	7	5	5	5		8.4	13.3
2-Nov-06	6	5	4	5	4	3	3	3	3	7	6	8	9	15	17	18	16	12	6	7	7	3	9	4		7.5	17.9
3-Nov-06	9	8	6	4	7	5	4	7	5	4	4	4	6	9	9	7	4	5	3	6	4	5	6	7		5.6	8.9
4-Nov-06	10	6	7	6	5	5	4	7	6	7	8	7	5	4	7	7	6	4	9	25	25	26	31	31		10.8	31.1
5-Nov-06	30	30	31	31	33	31	30	27	22	16	18	18	17	18	13	8	10	11	16	17	15	8	9	11		19.5	33.3
6-Nov-06	11	9	8	3	5	9	8	6	10	8	6	11	10	10	9	5	8	5	13	5	4	7	25	18		8.9	24.6
7-Nov-06	20	17	9	15	13	16	16	20	17	9	8	4	7	3	3	5	4	4	5	5	7	19	14	19		10.8	20.5
8-Nov-06	20	16	9	11	17	16	8	9	11	11	8	7	6	8	8	11	10	11	12	8	9	13	16	17		11.3	19.7
9-Nov-06	17	15	15	16	18	16	17	16	16	17	17	16	16	16	16	15	14	12	13	13	14	13	13	10		15.0	17.7
10-Nov-06	10	11	10	9	9	8	6	8	6	6	12	19	18	19	18	17	12	17	18	19	23	24	23	21		14.2	24.4
11-Nov-06	21	27	26	26	25	27	22	11	7	9	14	14	16	14	13	11	8	9	10	9	7	5	6	4		14.1	27.1
12-Nov-06	5	6	5	4	8	7	5	6	8	12	20	27	26	23	19	16	16	14	20	22	23	24	22	22		15.1	26.5
13-Nov-06	22	15	11	12	15	20	18	22	19	16	22	29	33	25	29	28	27	25	23	17	13	13	15	18		20.2	33.2
14-Nov-06	10	9	11	12	11	10	12	14	14	18	17	17	16	15	12	9	6	5	4	5	5	6	6	6		10.4	17.8
15-Nov-06	6	11	11	6	5	18	19	20	29	19	30	30	31	37	39	36	27	28	30	25	30	32	35	34		24.5	38.6
16-Nov-06	33	35	36	33	33	39	35	26	28	22	28	24	22	11	12	10	9	10	5	7	5	5	11	15		20.6	39.4
17-Nov-06	10	12	13	12	12	17	17	11	16	13	20	22	20	19	18	12	9	11	12	12	15	12	12	12		14.2	21.6
18-Nov-06	15	15	13	14	10	12	12	14	18	18	18	17	17	17	12	9	8	5	4	6	7	7	6	6		11.5	18.2
19-Nov-06	7	6	5	4	4	9	16	25	26	26	28	31	33	29	28	22	25	24	26	26	29	28	29	27		21.3	32.9
20-Nov-06	21	22	24	27	22	24	21	14	9	5	4	4	4	20	19	16	20	22	20	11	15	16	14	12		16.1	27.2
21-Nov-06	10	11	12	15	16	11	11	10	6	9	6	5	11	13	13	12	16	16	13	20	19	21	30	26		13.8	30.2
22-Nov-06	26	16	12	11	12	12	11	12	10	12	11	8	6	7	7	10	10	11	17	16	16	16	15	16		12.7	25.9
23-Nov-06	17	14	14	12	10	9	13	9	10	16	17	16	19	12	7	9	14	16	13	6	8	8	10	5		11.8	18.6
24-Nov-06	10	11	8	10	10	12	14	11	11	11	12	12	12	11	10	9	8	7	8	9	12	11	12	12		10.5	13.6
25-Nov-06	12	9	9	3	3	4	6	5	6	7	7	7	8	8	10	10	9	8	7	8	6	8	6	4		7.1	12.2
26-Nov-06	4	6	8	5	4	6	7	5	5	4	4	4	6	8	12	15	14	13	14	14	13	15	14	15		9.0	15.4
27-Nov-06	16	14	11	9	6	5	10	11	11	10	10	13	14	16	14	15	15	12	11	11	12	11	12	12		11.7	16.0
28-Nov-06	14	13	12	13	15	16	15	17	16	15	15	15	15	17	16	16	14	13	13	16	12	13	15	14		14.6	17.2
29-Nov-06	11	14	16	12	11	12	11	7	9	12	15	15	18	16	9	6	7	5	5	5	6	6	8	13		10.3	18.3
30-Nov-06	24	28	31	34	33	34	29	30	29	31	24	24	21	16	13	11	14	12	12	13	15	17	15	14		21.7	33.7
1-hr Average	14.6	14.1	13.2	12.9	12.9	14.0	13.5	13.0	13.0	12.7	14.0	14.5	15.1	14.8	14.1	12.8	12.3	11.8	12.4	12.2	12.7	13.3	14.8	14.3			
Hourly Max	32.7	35.2	35.8	33.7	33.4	39.4	34.6	29.9	29.3	31.4	30.1	31.0	33.2	37.1	38.6	36.0	27.3	27.8	29.6	26.2	29.7	32.3	34.7	33.8			



PAS - Crescent Heights - Vector Wind Speed Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

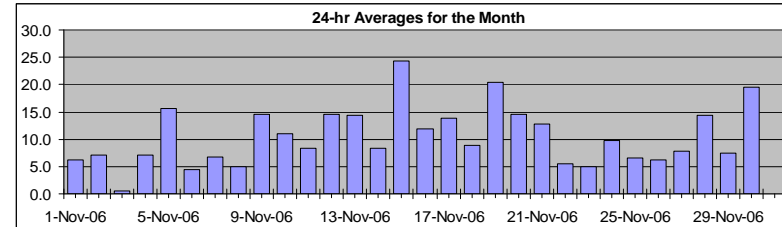
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: November 1, 2006 to December 1, 2006

Summary

Maximum 1-hr Average:	39.2	km/hr	16-Nov	5:00 6:00
Maximum 24-hr Value:	24.3	km/hr	15-Nov	



Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	34.2	29.5	16.5	11.6	7.2	3.4	2.0	5.8 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Nov-06	13	12	10	10	12	8	7	6	7	8	9	8	9	10	9	10	9	6	6	4	7	5	4	5	6.3	13.2	
2-Nov-06	5	5	4	5	4	3	2	2	3	7	6	8	9	14	17	18	16	12	6	6	7	3	9	4	7.1	17.8	
3-Nov-06	9	8	5	4	7	5	3	7	5	4	3	2	5	8	8	5	3	4	1	5	2	3	5	6	0.5	8.8	
4-Nov-06	9	6	7	6	5	4	3	7	6	7	8	7	4	3	7	7	6	4	7	25	25	26	31	31	7.0	31.0	
5-Nov-06	30	30	31	31	33	30	30	27	22	15	18	18	16	17	13	7	9	10	16	16	15	7	5	11	15.5	33.2	
6-Nov-06	11	9	7	3	4	9	7	5	10	8	6	11	10	10	8	2	7	4	13	4	1	5	25	18	4.5	24.6	
7-Nov-06	20	17	8	15	13	15	16	20	16	7	8	2	7	3	2	5	3	3	5	2	5	19	13	18	6.7	20.4	
8-Nov-06	19	15	8	10	17	16	7	8	10	10	8	7	5	8	8	10	10	11	12	8	9	12	16	16	5.0	19.4	
9-Nov-06	17	15	14	16	18	16	17	16	16	17	16	15	15	16	16	15	14	12	13	13	14	13	13	10	14.6	17.5	
10-Nov-06	10	11	10	9	9	7	6	8	6	6	11	19	17	19	17	17	12	16	18	19	22	24	23	21	11.0	24.2	
11-Nov-06	21	27	26	26	25	27	22	10	7	9	13	14	15	13	13	10	8	9	10	9	7	3	5	4	8.4	27.0	
12-Nov-06	5	6	5	3	8	6	5	4	5	12	20	26	26	23	19	16	16	14	19	22	23	24	22	22	14.6	26.3	
13-Nov-06	22	14	11	12	15	20	18	22	19	16	22	29	33	24	29	28	27	25	23	17	13	13	14	17	14.4	32.8	
14-Nov-06	10	9	11	12	11	10	12	14	14	18	16	17	16	14	12	9	6	4	2	5	4	4	5	5	8.3	17.7	
15-Nov-06	4	11	10	5	4	18	19	20	29	19	30	31	37	38	36	27	28	29	25	30	32	34	34	34	24.3	38.4	
16-Nov-06	32	35	36	33	33	39	34	26	28	17	28	24	22	11	11	10	9	10	3	6	3	3	10	15	11.9	39.2	
17-Nov-06	10	11	13	12	12	16	17	10	15	12	20	21	20	19	18	12	9	11	12	12	15	11	12	12	13.9	21.4	
18-Nov-06	15	15	13	13	9	11	11	13	18	17	18	17	17	16	12	8	8	3	2	5	6	7	6	5	8.8	18.0	
19-Nov-06	6	6	4	2	3	8	16	25	26	28	31	33	29	28	22	25	24	26	26	29	28	29	27	20.5	32.7		
20-Nov-06	21	22	24	27	22	24	21	14	8	5	4	2	2	20	19	16	19	22	20	11	15	16	13	11	14.5	27.0	
21-Nov-06	9	10	11	15	15	10	10	9	6	9	5	4	11	12	13	12	16	16	13	19	18	21	30	25	12.8	30.0	
22-Nov-06	24	16	12	11	11	12	11	12	10	12	11	8	4	6	6	10	10	11	17	16	16	16	15	16	5.4	23.6	
23-Nov-06	17	14	14	11	10	8	12	8	10	15	17	16	18	12	6	6	14	16	13	5	7	8	10	5	4.9	18.4	
24-Nov-06	9	10	8	9	10	12	13	11	10	11	12	12	12	10	10	9	7	7	8	9	12	11	12	11	9.8	13.5	
25-Nov-06	12	9	9	3	3	4	6	5	6	7	7	7	7	7	10	9	9	8	7	8	6	8	6	4	6.6	12.1	
26-Nov-06	4	6	8	5	3	6	7	4	4	4	4	2	6	8	12	15	14	13	14	14	13	15	14	15	6.1	15.3	
27-Nov-06	16	14	10	9	6	5	9	11	11	10	10	13	14	16	14	14	15	11	10	11	12	11	12	12	7.8	15.8	
28-Nov-06	14	13	12	13	14	16	15	17	16	14	15	15	17	15	16	14	13	13	16	12	13	15	15	14	14.4	17.1	
29-Nov-06	11	14	16	12	11	11	11	6	9	12	15	14	18	16	9	5	7	5	4	4	5	5	8	12	7.5	18.0	
30-Nov-06	23	27	31	34	33	33	29	30	29	31	24	23	21	16	13	11	14	12	12	14	13	15	17	15	14	19.6	33.6
1-hr Vector	5.9	6.1	5.8	6.6	6.3	7.9	7.9	7.4	7.4	6.3	6.6	6.7	6.6	6.1	5.1	3.4	3.2	2.7	3.4	4.3	5.8	6.4	7.0	6.6			
Hourly Max	32.4	35.0	35.6	33.6	33.2	39.2	34.3	29.8	29.3	31.3	29.9	30.7	32.8	36.9	38.4	35.9	27.2	27.7	29.5	26.0	29.6	32.2	34.5	33.7			



PAS - Crescent Heights - Wind Direction Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: November 1, 2006 to December 1, 2006

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	355.6	343.2	279.4	221.2	140.7	26.5	4.3	238 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
1-Nov-06	290	297	293	298	314	264	249	204	216	222	241	288	293	292	286	266	247	250	244	209	200	170	149	126	263	W
2-Nov-06	117	137	102	111	106	79	75	45	61	63	58	68	91	108	104	105	105	106	102	95	73	67	79	64	94	E
3-Nov-06	42	21	34	26	68	76	70	12	25	42	86	118	201	220	239	261	299	237	255	221	219	125	225	302	351	N
4-Nov-06	332	341	341	311	295	317	242	255	247	241	242	230	238	149	121	110	103	124	187	206	203	208	206	208	216	SW
5-Nov-06	207	206	205	210	214	227	224	227	230	237	254	277	301	319	321	322	273	264	268	260	227	204	287	345	239	WSW
6-Nov-06	347	347	6	82	33	13	7	352	354	350	358	352	352	3	8	356	225	2	4	9	325	226	210	208	343	NNW
7-Nov-06	207	220	234	229	250	240	246	235	237	289	359	37	7	51	99	357	42	70	89	100	168	220	279	242	239	WSW
8-Nov-06	273	280	253	218	277	289	269	264	287	286	300	294	332	358	20	27	15	29	54	51	65	54	52	57	331	NNW
9-Nov-06	61	62	47	46	45	53	65	69	71	75	79	80	68	62	71	79	79	70	73	79	91	99	96	90	70	ENE
10-Nov-06	91	93	95	95	101	105	109	93	117	118	179	195	188	191	174	174	179	177	177	186	202	208	209	207	173	S
11-Nov-06	211	215	217	214	213	217	226	253	257	274	309	321	343	349	340	345	318	316	333	350	333	278	241	268	259	W
12-Nov-06	264	259	272	220	219	211	150	182	186	214	223	216	215	214	216	223	215	221	208	209	211	208	208	208	214	SW
13-Nov-06	205	198	184	182	195	192	184	190	183	173	194	201	209	249	263	262	263	266	270	283	315	310	326	323	231	SW
14-Nov-06	303	293	283	279	274	273	277	281	276	278	290	306	301	307	299	275	283	317	161	122	221	150	158	186	282	WNW
15-Nov-06	183	224	220	228	176	208	208	202	203	191	196	195	192	197	202	203	194	195	194	189	193	196	202	208	199	SSW
16-Nov-06	214	213	213	210	207	217	214	235	238	296	352	344	349	326	313	321	335	25	110	141	223	207	228	242	241	WSW
17-Nov-06	261	239	236	255	256	239	236	222	222	227	215	227	220	219	228	232	228	225	222	226	239	222	225	237	230	SW
18-Nov-06	224	228	228	229	234	240	244	238	233	238	240	246	282	293	305	313	330	4	150	165	170	189	163	162	242	WSW
19-Nov-06	139	146	137	150	107	168	209	196	193	195	196	196	195	191	191	187	193	193	196	203	211	209	214	219	196	SSW
20-Nov-06	222	218	218	222	212	214	222	241	322	9	109	114	235	222	236	243	251	235	233	253	229	225	244	250	230	SW
21-Nov-06	249	250	228	220	215	228	248	255	244	231	236	216	193	187	188	172	179	188	212	208	211	234	215	224	216	SW
22-Nov-06	240	294	294	281	295	297	307	318	329	350	2	26	96	82	74	72	59	62	69	63	63	68	65	53	15	NNE
23-Nov-06	58	42	37	13	15	40	299	290	231	233	234	229	222	233	227	340	358	351	348	335	302	303	323	332	315	NW
24-Nov-06	349	8	3	4	350	346	355	351	321	340	332	315	315	297	282	304	315	316	318	331	328	333	333	335	332	NNW
25-Nov-06	347	356	359	51	61	11	3	27	48	34	13	42	34	12	9	26	47	55	48	48	39	12	10	20	24	NNE
26-Nov-06	354	341	348	344	341	311	318	313	256	249	214	33	18	33	51	54	65	50	47	51	66	80	82	85	43	NE
27-Nov-06	87	85	81	74	66	17	349	343	341	329	306	303	303	311	303	301	306	304	300	308	310	311	308	309	327	NNW
28-Nov-06	305	305	306	308	311	310	307	308	303	298	295	294	288	291	290	297	297	300	279	277	280	285	280	273	295	WNW
29-Nov-06	279	277	277	277	266	272	271	240	217	235	238	243	223	210	194	167	125	121	115	151	182	168	185	196	231	SW
30-Nov-06	200	208	210	210	214	221	229	230	228	235	242	272	278	290	282	260	239	240	237	253	260	277	268	273	237	WSW
Hourly Avg	235	239	237	231	235	238	242	243	239	250	249	250	250	249	248	254	245	241	226	215	219	218	224	230		



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

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: November 1, 2006 to December 1, 2006

Summary

--

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	53.7	30.2	13.1	8.8	6.5	4.4	3.7

Status Flag Characters

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

Day Mountain Standard Time

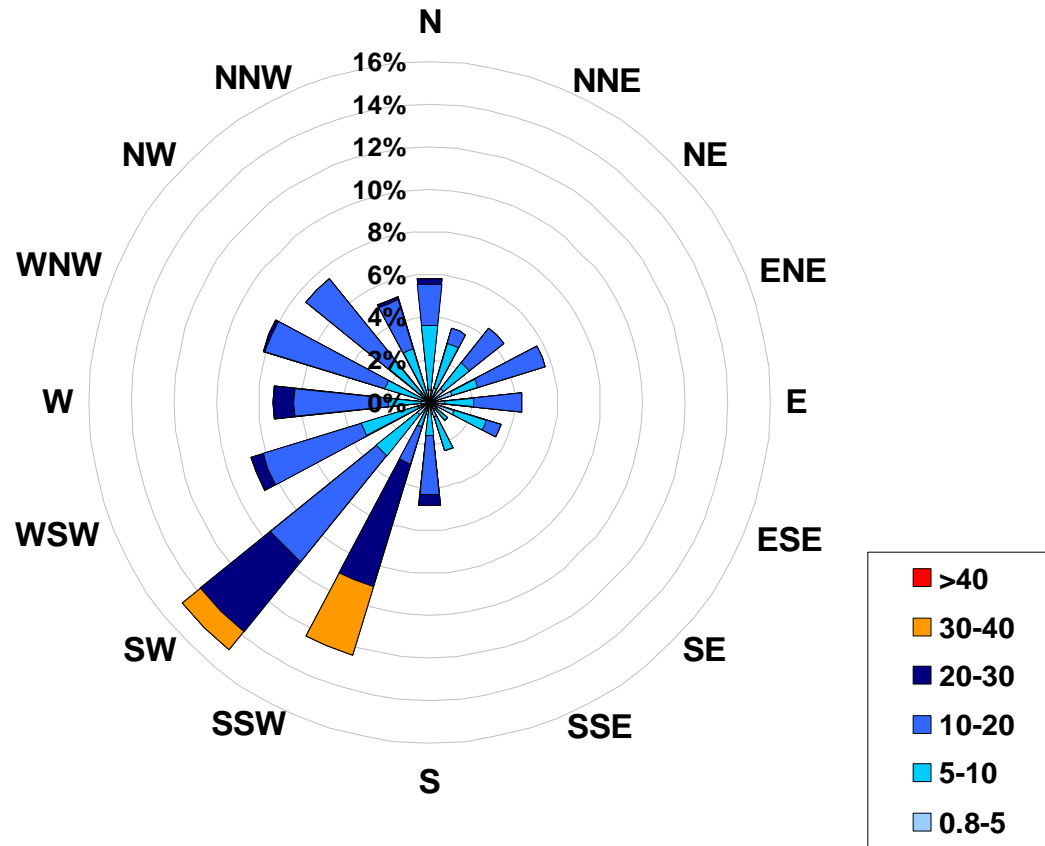
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Nov-06	7	9	9	8	7	12	7	21	7	10	15	23	19	19	17	12	9	15	8	25	14	8	13	9		
2-Nov-06	14	16	17	7	16	18	62	30	16	15	23	15	13	9	8	6	7	7	9	6	6	24	6	10		
3-Nov-06	10	5	9	16	5	14	15	6	12	19	29	51	49	14	13	19	21	45	65	23	71	41	25	13		
4-Nov-06	12	12	11	18	30	24	50	17	18	12	13	21	43	48	9	7	14	29	24	4	5	4	4	4		
5-Nov-06	4	4	4	4	4	4	4	5	6	8	8	7	9	9	8	15	14	9	5	9	7	12	13	7		
6-Nov-06	4	5	12	25	28	9	12	37	8	8	9	10	16	6	13	32	21	33	7	28	51	35	5	6		
7-Nov-06	6	11	17	11	9	11	8	5	10	16	13	29	11	20	26	18	22	19	15	62	18	5	20	10		
8-Nov-06	7	7	19	25	13	8	23	11	11	8	13	21	24	12	11	9	7	5	8	12	13	10	6	6		
9-Nov-06	6	9	8	8	6	6	7	6	6	7	7	8	10	9	8	9	8	7	7	7	8	8	7	7		
10-Nov-06	8	6	8	7	6	4	8	8	9	7	12	8	10	10	10	6	7	8	7	7	7	5	4	4		
11-Nov-06	4	4	4	4	4	3	7	11	18	9	12	12	11	10	11	15	14	12	10	9	12	27	13	26		
12-Nov-06	24	17	19	35	11	13	13	24	22	11	9	6	7	6	7	6	4	9	6	5	6	5	5	5		
13-Nov-06	5	5	6	7	7	6	7	6	6	7	8	6	7	9	5	5	6	6	5	7	8	10	9	6		
14-Nov-06	9	13	8	8	6	9	8	8	8	6	9	10	10	10	13	12	17	24	26	12	21	17	12	16		
15-Nov-06	38	18	30	45	55	4	5	10	5	7	6	7	6	5	5	5	5	5	5	6	5	5	6	6		
16-Nov-06	5	5	5	5	5	4	5	6	5	12	4	7	6	13	12	8	9	8	25	16	37	51	18	6		
17-Nov-06	13	10	9	8	11	10	8	23	6	10	7	7	7	9	8	7	5	7	7	11	5	13	14	9		
18-Nov-06	5	7	8	6	18	20	14	8	6	6	7	8	8	8	11	12	7	28	54	17	14	10	13	23		
19-Nov-06	9	11	16	34	30	15	7	5	6	8	6	7	6	6	6	6	5	5	4	6	4	4	4	3		
20-Nov-06	6	5	5	4	4	4	5	13	14	16	29	42	68	11	9	8	7	5	9	10	5	6	10	16		
21-Nov-06	15	14	25	19	17	29	15	8	21	7	24	41	12	11	11	7	6	7	7	6	8	9	5	7		
22-Nov-06	16	8	14	9	9	10	10	8	13	8	9	16	38	25	40	13	9	9	7	7	7	6	8	6		
23-Nov-06	7	6	5	6	9	15	10	18	12	9	8	9	7	13	57	24	11	3	5	36	14	15	8	22		
24-Nov-06	9	9	15	10	14	12	9	11	12	10	9	11	14	12	16	13	9	10	7	6	8	7	7			
25-Nov-06	6	5	5	18	11	9	5	7	9	15	11	21	21	18	11	12	8	7	9	5	5	9	9	15		
26-Nov-06	14	9	6	11	17	11	10	18	22	27	48	36	19	11	9	7	8	7	6	6	7	8	7	7		
27-Nov-06	6	6	8	6	10	11	5	4	5	9	10	9	10	8	8	9	9	11	13	12	11	11	8	10		
28-Nov-06	8	9	9	7	8	6	9	7	8	9	9	11	8	11	8	11	10	11	6	8	8	8	7	8		
29-Nov-06	13	8	6	10	7	7	24	8	8	6	11	8	8	13	32	7	10	10	21	33	19	11	7			
30-Nov-06	5	5	4	4	5	5	5	5	4	4	6	7	5	7	8	9	7	6	7	7	6	5	5	6		

Daily Maximum
24.8
62.4
71.4
49.7
15.3
50.8
62.0
25.0
9.6
12.0
26.7
34.7
9.9
26.4
55.5
50.5
23.4
54.2
33.8
68.2
40.9
39.8
57.4
15.6
21.3
48.0
13.1
10.8
32.7
8.8

Hourly Max	38	18	30	45	55	29	62	37	22	27	48	51	68	48	57	32	22	45	65	62	71	51	25	26
------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----



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



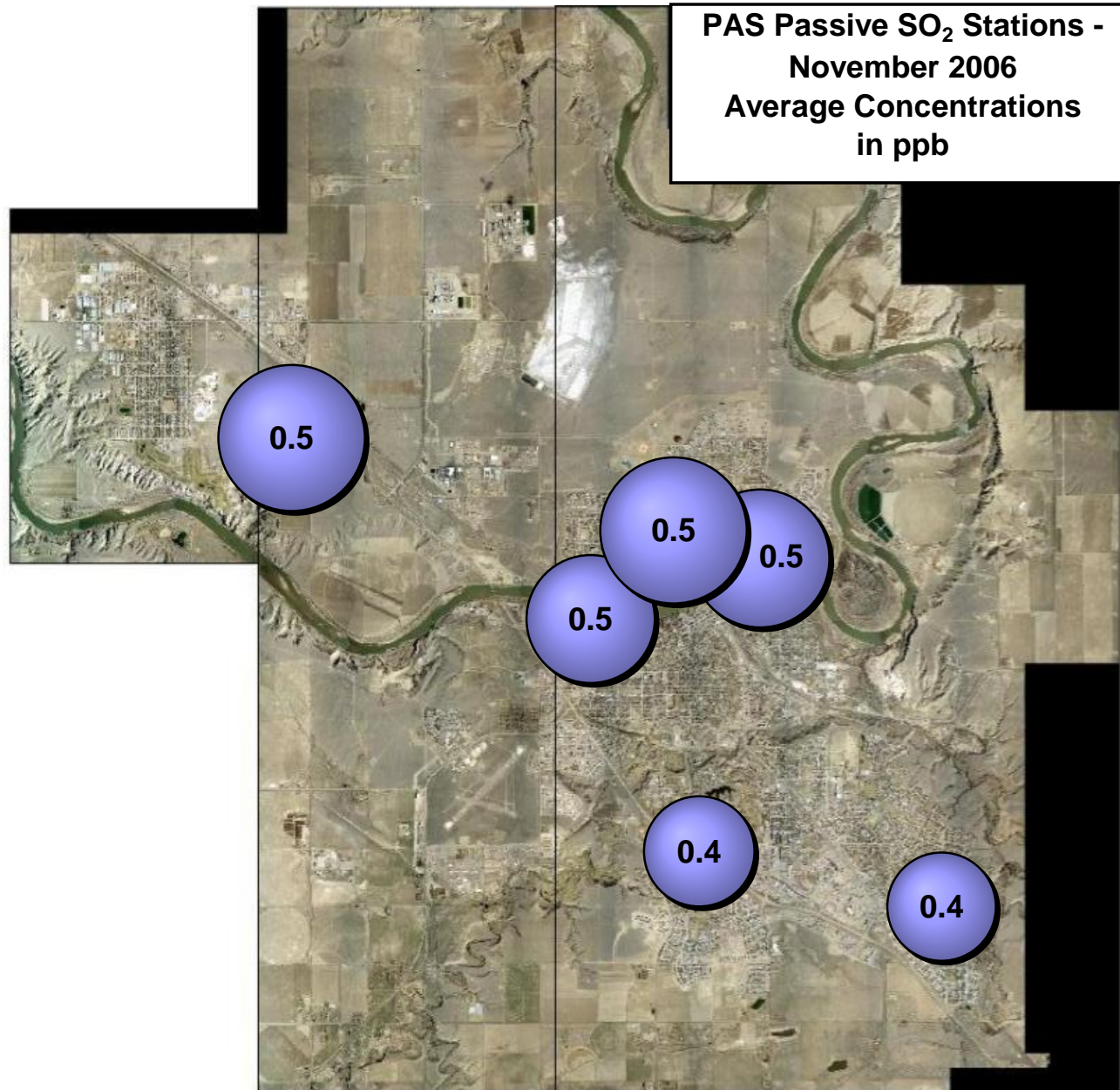
Calms: 0%

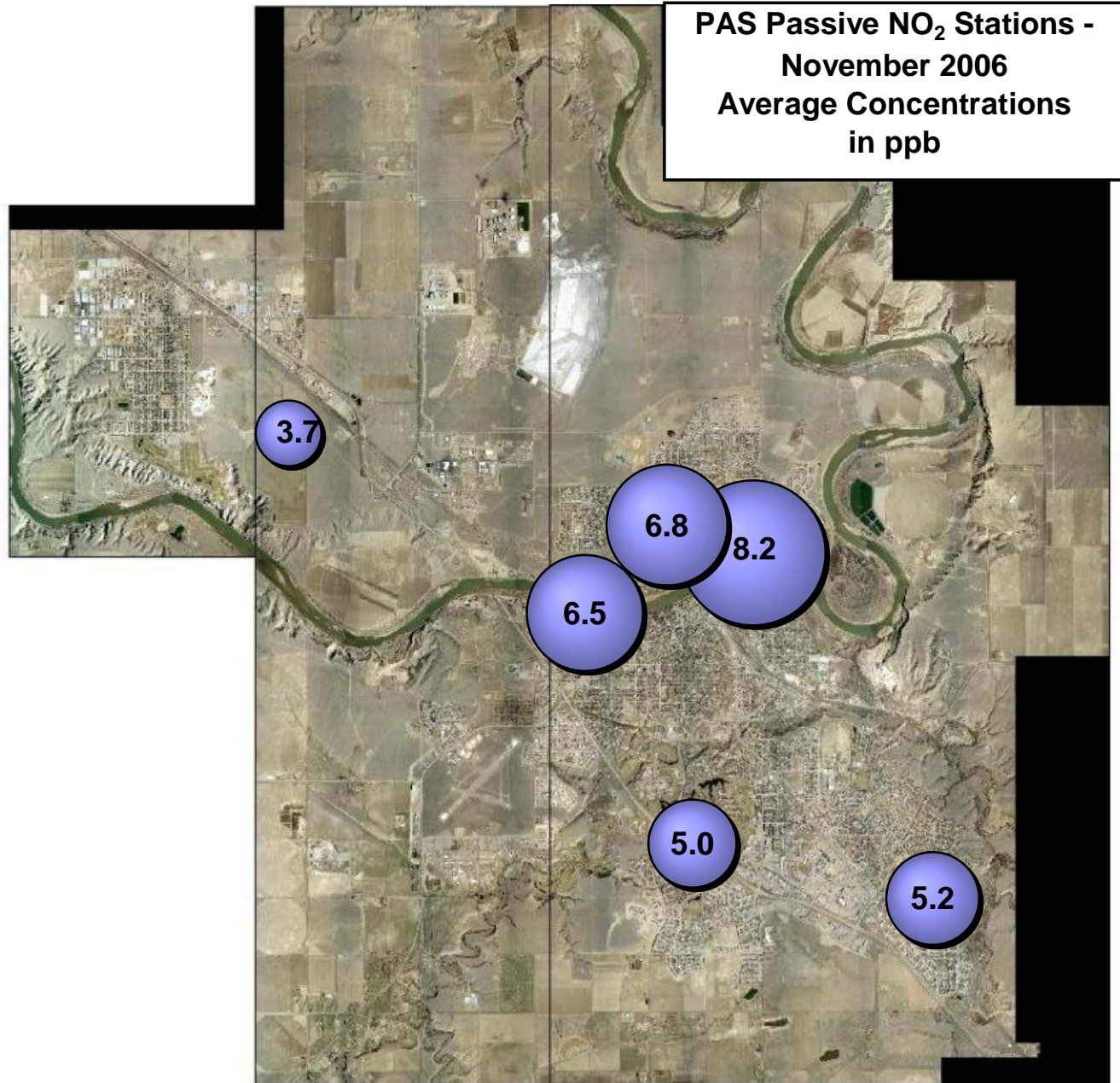
Frequency Distribution of Wind in km/hr			
Range		Frequency (hrs)	
0.8	< 5		66
5	to 10		209
10	to 20		320
20	to 30		93
30	to 40		32
	> 40		0
Total Non-Zero Values			720

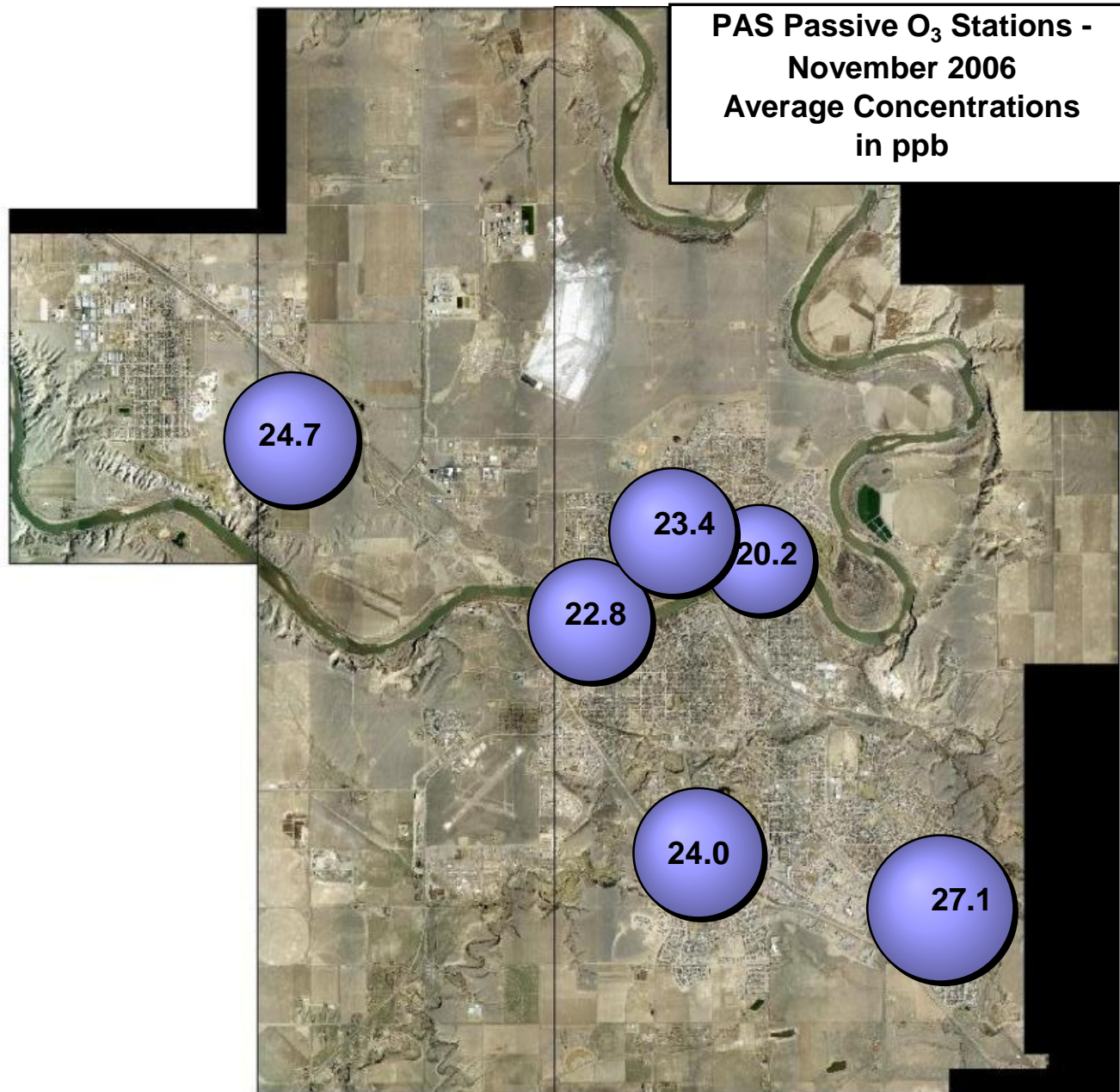


Passive Monitoring – November 2006

Station Number	Station Name	SO ₂ ppb	O ₃ ppb	NO ₂ ppb	Easting	Northing	Elevation
Duplicates							
2a	Ball Park	0.4	19.8	7.2			
2b		0.5	20.7	9.2			
1	Hospital	0.5	22.8	6.5	521648	5542721	698
2	Ball Park	0.5	20.2	8.2	524019	5543686	660
3	Monitoring Station	0.5	23.4	6.8	522812	5544133	714
4	Redcliff	0.5	24.7	3.7	517448	5545608	725
5	Southridge	0.4	24.0	5.0	523172	5539016	721
6	Christian School Park	0.4	27.1	5.2	526577	5538133	709
Stats:							
	Mean	0.5	23.7	5.9			
	Standard Deviation	0.1	2.3	1.6			
	Minimum	0.4			6	Christian School Park	
	Maximum	0.5			3	Monitoring Station	
	Minimum		20.2		2	Ball Park	
	Maximum		27.1		6	Christian School Park	
	Minimum			3.7	4	Redcliff	
	Maximum			8.2	2	Ball Park	







Palliser Airshed Society

November 2006 - Calibration Reports

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

Calibration Report

Parameter 03
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	November 22, 2006	Previous Calibration	October 11, 2006
Station Number	101	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Calibration	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	8:12	End Time (MST)	10:55
Barometric Pressure	27.5 inches Hg	Station Temperature	25.4 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 1 volt	DACS channel #	5
	<u>Before</u>		<u>After</u>
Calculated slope	1.022824	Calculated slope	1.002981
Calculated intercept	-5.097908	Calculated intercept	1.691385
Analyzer make	API Model 400E	Analyzer serial #	331

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Offset	-7.6	ppb	-7.6	ppb
Slope	1.113		1.113	
Lamp measure	4732.6	mV	4659.0	mV
Lamp Reference	4732.7	mV	4667.5	mV
Pressure	26.0	inches Hg	25.8	inches Hg
Sample Flow	669	ccm	665	ccm
Sample temp	36.2	Deg C	35.6	Deg C

Calibration Data

Dilution air flow rate (cc/min)	Ozone Set Point	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4989	0.0	0.0	-1.6	N/A
4989	300.0	292.4	288.8	1.0124
4989	200.0	194.5	194.5	1.0001
4989	100.0	106.2	102.9	1.0324
4989	0.0	0.0	-1.6	0.0000
4989	300.0	292.4	288.8	1.0124
Average Correction Factor				1.0150

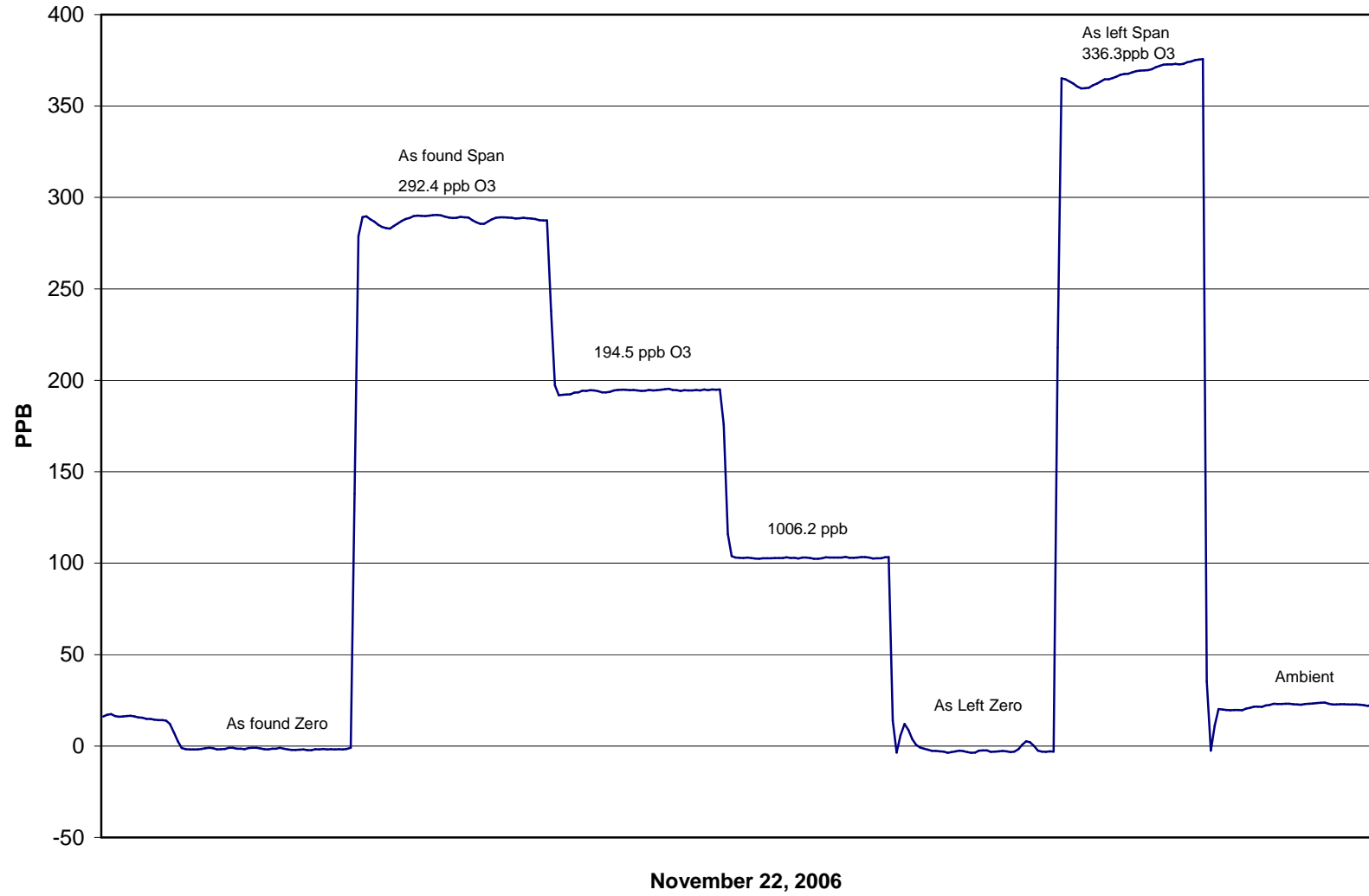
Calculated value of As Found Response: 291.9 ppm Percent Change of As Found: -0.2%

	before calibration		after calibration	
Auto zero	-1.4	ppb	-1.1	ppb
Auto span	344.4	ppb	370.7	ppb

Notes: _____

Calibration Performed By: Lenin Flores, Travis Mehrer

O3 Calibration



Calibration Report

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



Station Information

Calibration Date November 21, 2006 Previous Calibration October 11, 2006
 Station Number 101 Station Location Crescent Heights

Reason: Routine Installation Removal Other: _____

Start Time (MST) 10:01 End Time (MST) 14:40
 Barometric Pressure 27.2 inches Hg Station Temperature 30.0 Deg C
 Calibrator EnviroNics 6100 Serial Number 3474
 NO Cal Gas Conc 49.9 ppm Cal Gas Expiry Date 15-Dec-07
 NOx Cal Gas Conc 49.9 ppm Cal Gas Serial # LL-50114

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45270

Parameter		NO2	NOx	NO
Before	Data Slope	0.992902	0.991380	0.993163
	Data Offset	-2.230585	-0.980927	0.667798
After	Data Slope	1.001089	0.999109	0.998338
	Data Offset	0.511037	0.725960	2.846580
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	-0.2	mV	-0.2	mV
NOx background	1.1	mV	1.1	mV
NO coefficient	1.293		1.378	
NOx coefficient	1.314		1.397	
Chamber Temp	50.0	Deg C	49.9	Deg C
Cooler Temp	7.0	Deg C	7.0	Deg C
Azero	40.3		42.4	
Perm Temp	40.4	Deg C	40.1	Deg C
Pressure	5.5	inches Hg	5.2	inches Hg
Sample Flow	451.0	ccm	448.0	ccm

Notes: Performed a Span Adjustment... A through maintenance will have to be performed next calibration...

Calibration Report

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



Station Information

Calibration Date: November 21, 2006 Station Location: Crescent Heights

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor
zero	4990	0.00	0.0	0.0	0.0	-0.5	-2.9	-0.5	N/A	N/A
1	4990	39.86	395.5	395.5	0.0	395.2	393.2	-0.4	1.0008	1.0058
2	4990	19.92	198.4	198.4	0.0	197.9	196.0	-1.1	1.0025	1.0120
3	4990	9.95	99.3	99.3	0.0	98.3	96.6	-1.6	1.0105	1.0281
AFZ	4990	0.00	0.0	0.0	0.0	-0.5	-2.9	-0.5	0.0000	0.0000
AFS	4990	39.86	395.5	395.5	0.0	371.2	368.8	-0.1	1.0653	1.0723
Average Correction Factor									1.0046	1.0153

As Found Concentrations NO_x= 370.7 NO= 372.4 As Found Percent Change NO_x= -6.3% NO= -5.8%

GPT Calibration Data

Dilution Flow 4990 ccm Source Gas Flow 39.86 ccm

O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	392.8	392.6	0.1	392.4	390.4	-0.5	N/A	N/A	N/A	N/A
300	394.1	287.9	106.2	393.7	285.5	105.4	1.0010	1.0083	1.0073	99.3%
200	395.3	200.8	194.5	394.9	198.3	193.9	1.0009	1.0127	1.0028	99.7%
100	394.7	102.3	292.4	394.3	99.6	291.5	1.0010	1.0269	1.0031	99.7%
Average Correction Factor							1.0010	1.0160	1.0044	99.6%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	2.1	-0.7	2.1	ppb	-2.6	-3.7	-0.5	ppb
Auto span	413.7	404.2	8.6	ppb	397.9	392.1	5.1	ppb

Calibration Performed By: Travis Mehrer

Calibration Summary

Parameter NO₂
 Air Monitoring Network Palliser Airshed

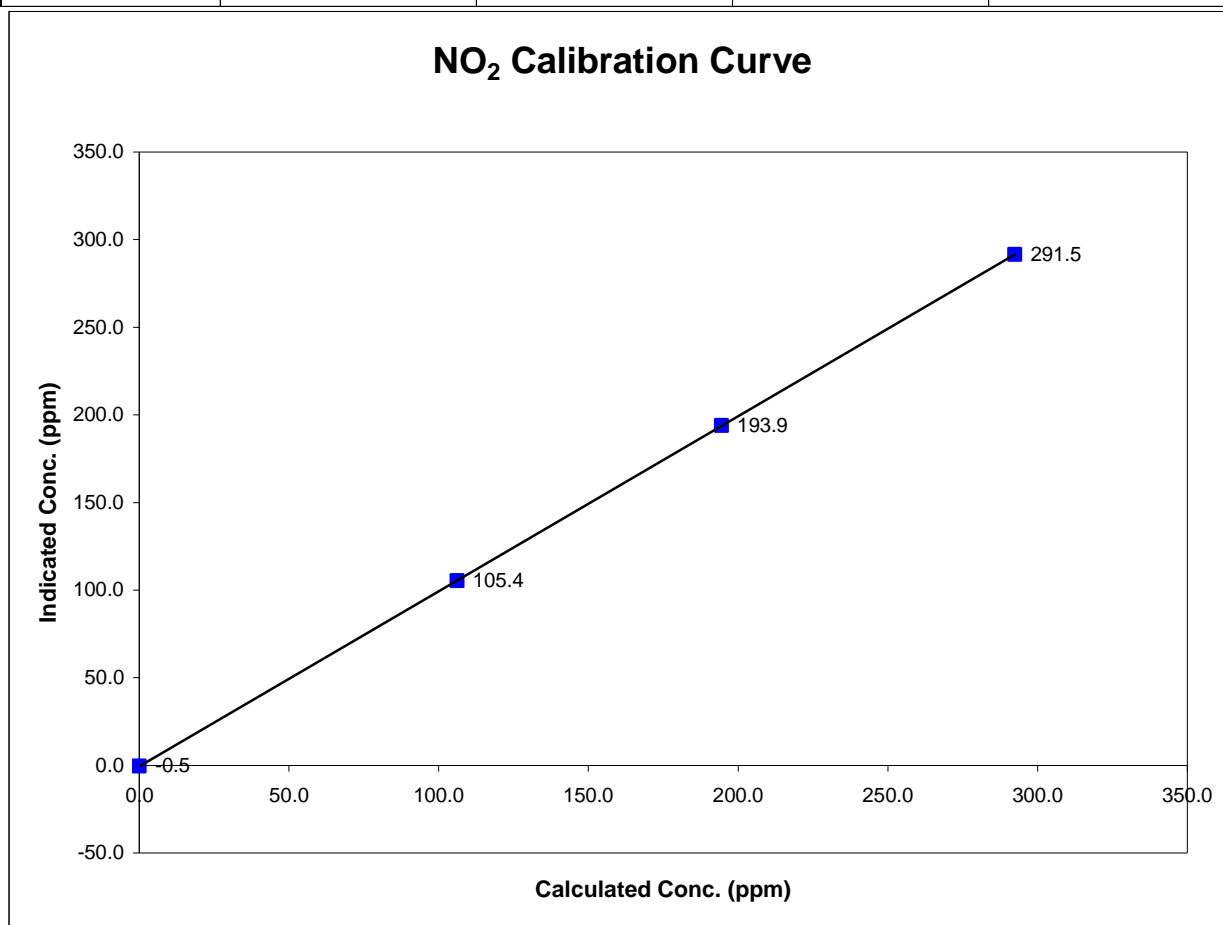


Station Information

Calibration Date	November 21, 2006	Previous Calibration	October 11, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:01	End Time (MST)	14:40
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.5	0.0000		
106.2	105.4	1.0073	Correlation Coefficient	0.999999
194.5	193.9	1.0028		
292.4	291.5	1.0031	Slope	1.001089
			Intercept	0.511037



Calibration Summary

Parameter NO_x
 Air Monitoring Network Palliser Airshed



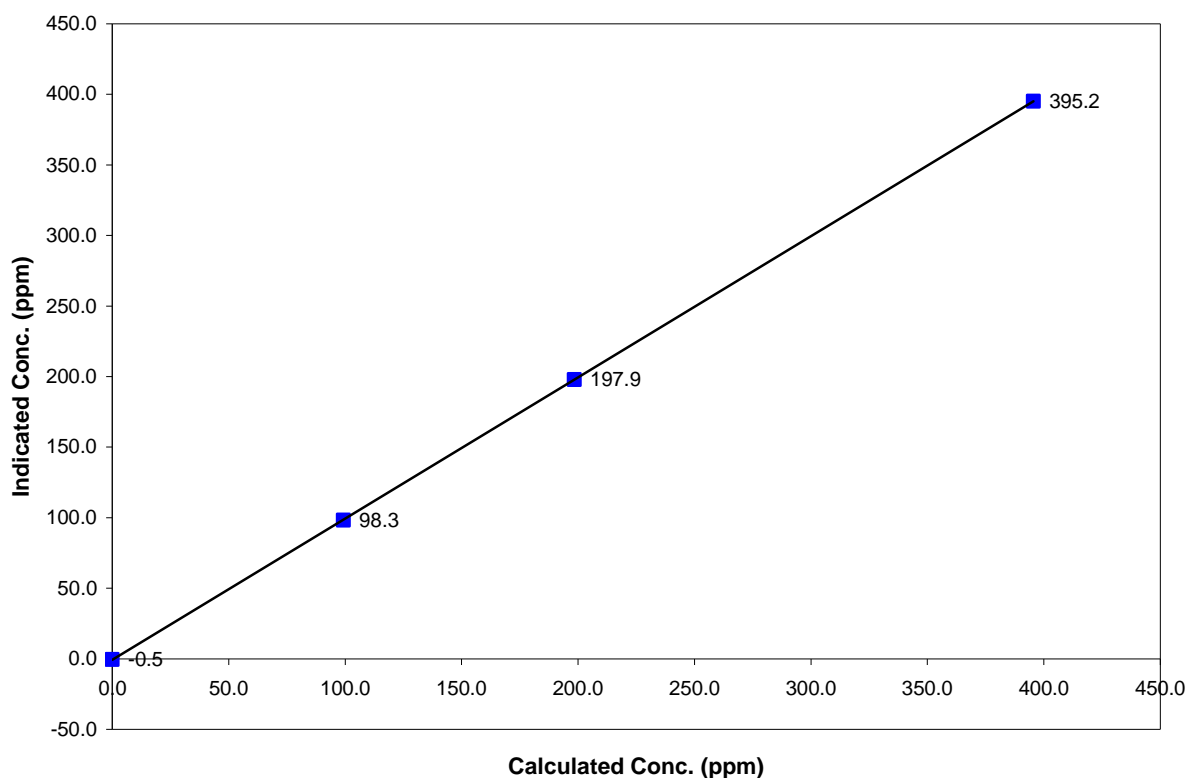
Station Information

Calibration Date	November 21, 2006	Previous Calibration	October 11, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:01	End Time (MST)	14:40
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.5	0.0000	Correlation Coefficient	0.999997
395.5	395.2	1.0008		
198.4	197.9	1.0025	Slope	0.999109
99.3	98.3	1.0105		
			Intercept	0.725960

NO_x Calibration Curve



Calibration Summary

Parameter NO
 Air Monitoring Network Palliser Airshed

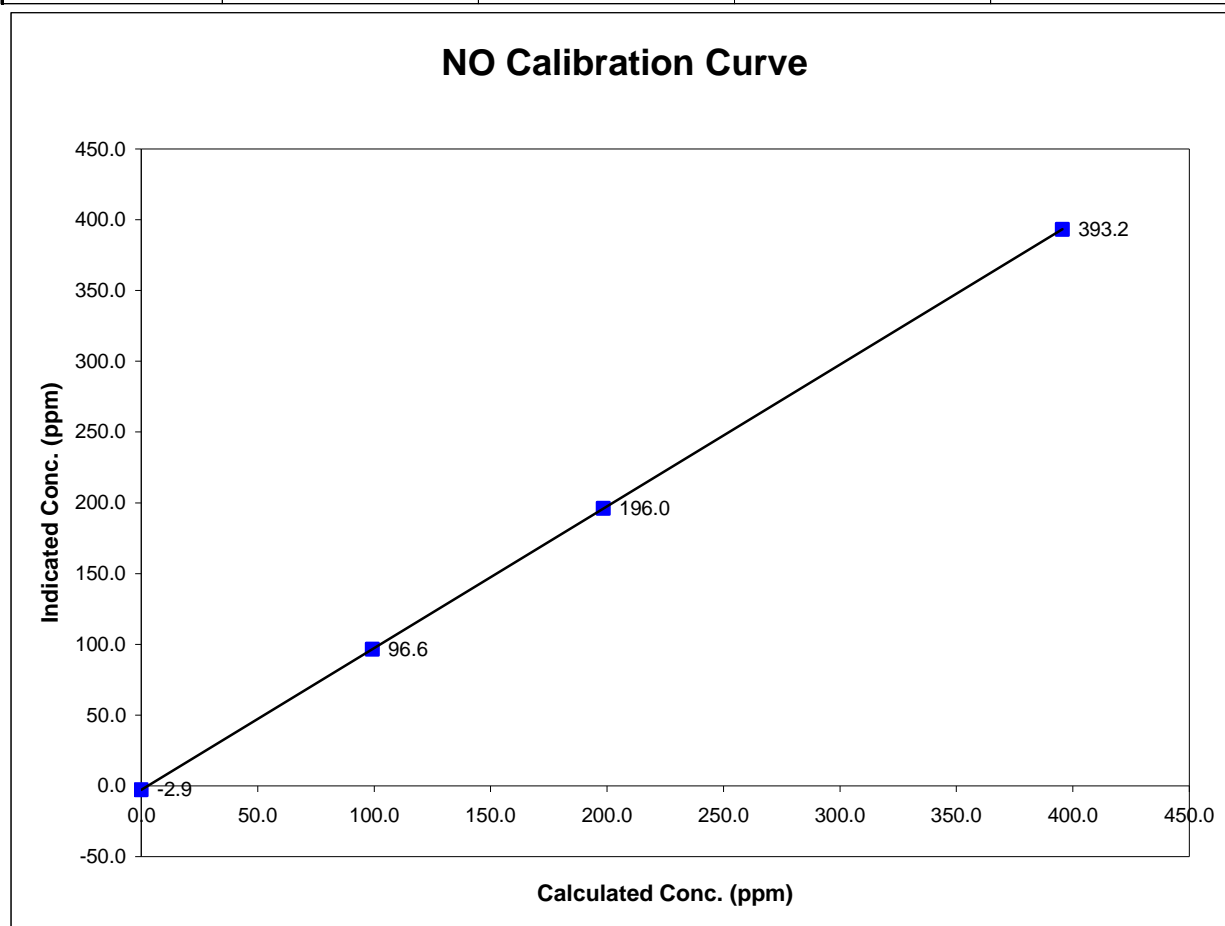


Station Information

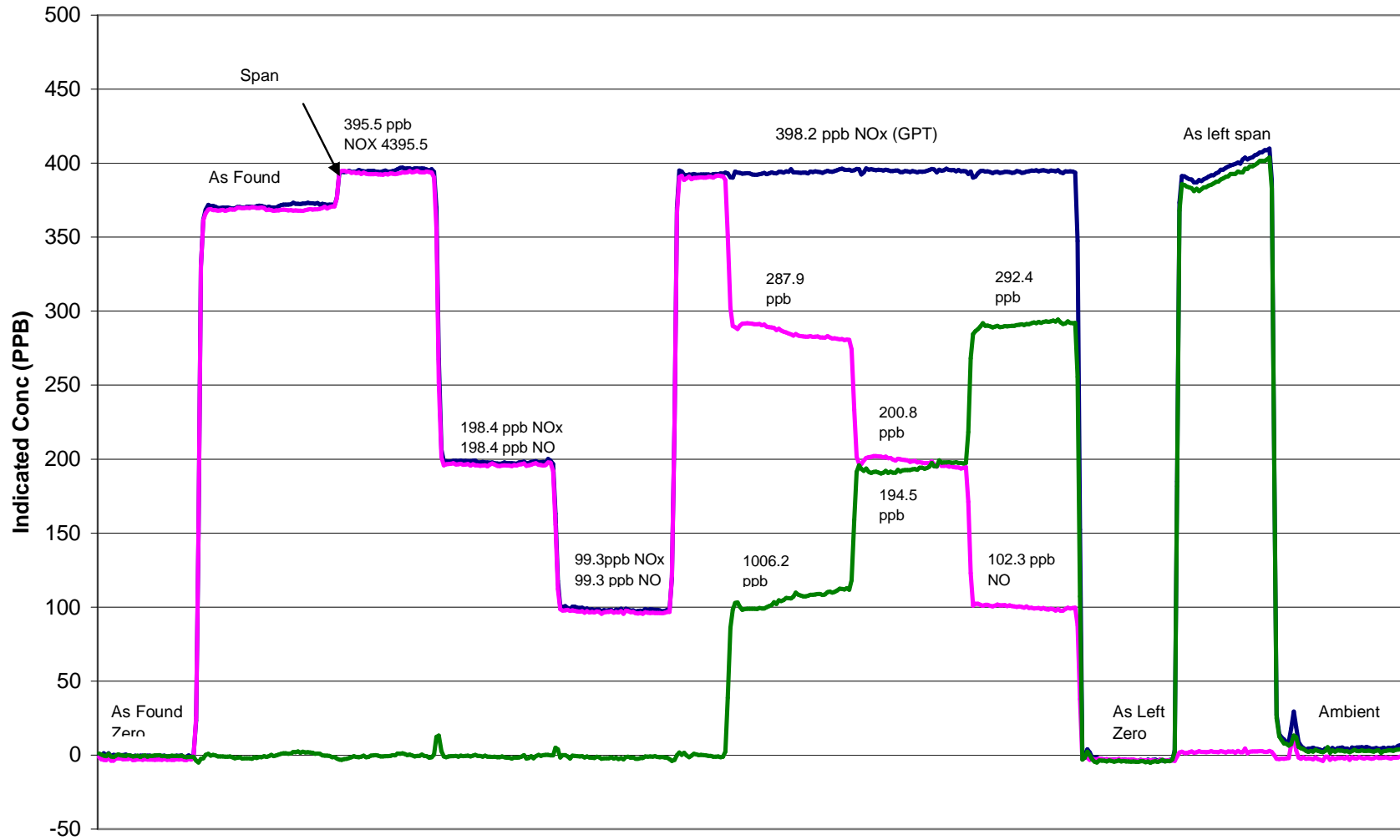
Calibration Date	November 21, 2006	Previous Calibration	October 11, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:01	End Time (MST)	14:40
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-2.9	N/A	Correlation Coefficient	1.000000
395.5	393.2	1.0058		
198.4	196.0	1.0120		
99.3	96.6	1.0281		
			Slope	0.998338
			Intercept	2.846580



NOx Calibration



November 21, 2006

Calibration Report

Parameter THC
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	November 21, 2006	Previous Calibration	October 22, 2006
Station Number	101	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	15:47	End Time (MST)	18:11
Barometric Pressure	27.2 inches Hg	Station Temperature	30.0 Deg C
Calibrator	Envionics 6100	Serial Number	3747
Cal Gas Concentration	700 ppm CH ₄ / 301 ppm C ₃ H ₈	Cal Gas Expiry Date	8/28/2005
Cal Gas 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	0.994708	Calculated slope	0.996074
Calculated intercept	-0.072260	Calculated intercept	0.206512
Analyzer make	TEI model 51C-LT	Analyzer serial #	407505596

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
THC sample pressure	5.75	PSI	5.75	PSI
THC span counts	12605	raw	12605	raw
THC zero counts	1370	raw	1370	raw

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4991	0.00	0.00	-0.16	N/A
4991	79.77	24.03	23.97	1.0027
4991	39.85	12.10	11.84	1.0217
4991	9.95	3.04	2.84	1.0701
zero	0.00	0.00	-0.17	As Found Zero
4991	79.77	24.03	23.97	As Found Span
Average Correction Factor				1.0315

Calculated value of As Found Response: 23.937 ppm Percent Change of As Found: 0.4%

	before calibration		after calibration	
Auto zero	0.06	ppm	0.05	ppm
Auto span	21.18	ppm	21.19	ppm

Notes: _____

Calibration Performed By: Lenin Flores, Travis Mehrer

Calibration Summary

Parameter THC
 Air Monitoring Network Palliser Airshed

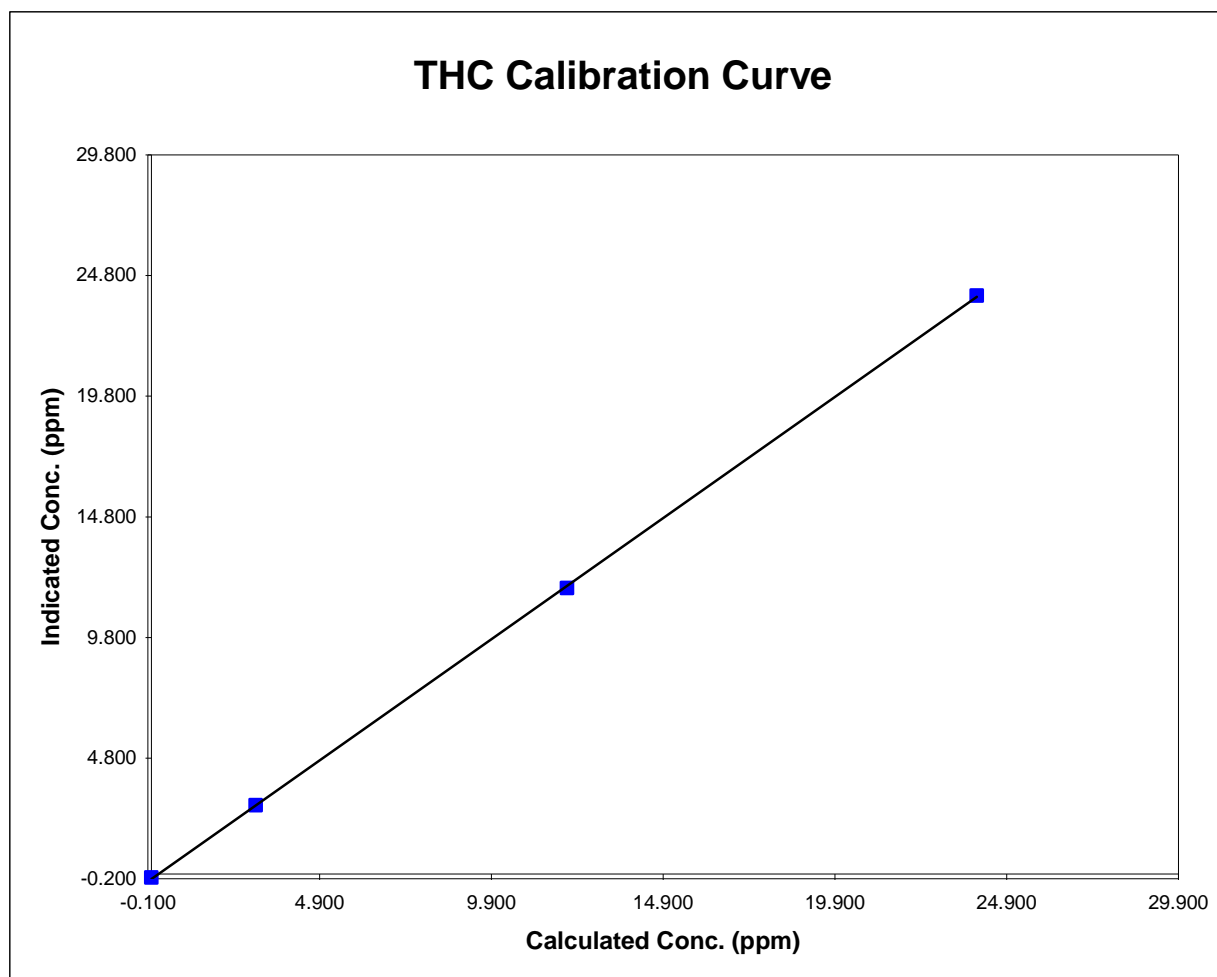


Station Information

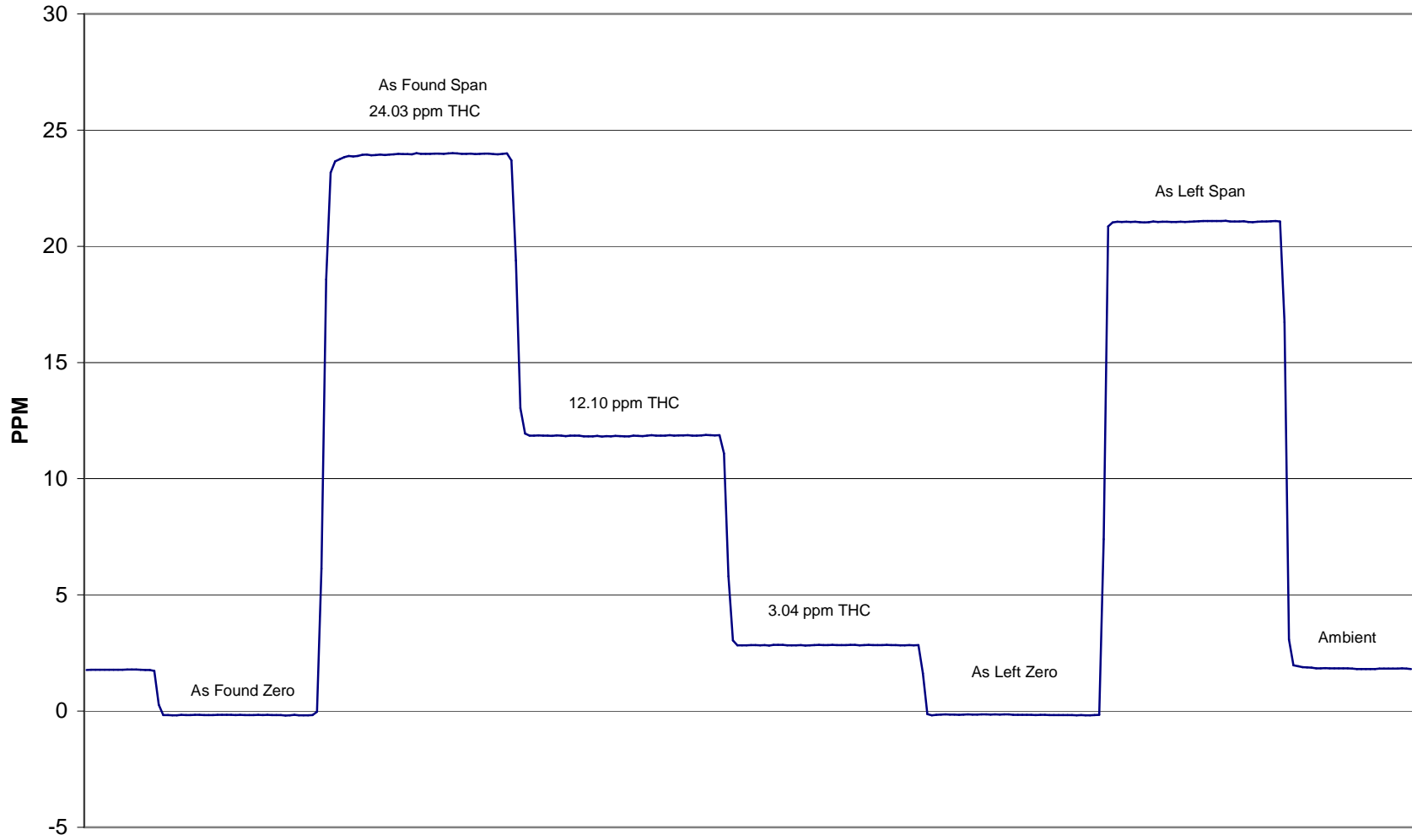
Calibration Date	November 21, 2006	Previous Calibration	October 22, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	15:47	End Time (MST)	18:11
Analyzer make/model	TEI model 51C-LT	Analyzer serial #	407505596

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.155	N/A		
24.035	23.971	1.0027	Correlation Coefficient	0.999959
12.101	11.844	1.0217		
3.039	2.840	1.0701	Slope	0.996074
			Intercept	0.206512



THC Calibration



November 21, 2006

Calibration Report



Parameter CO
 Air Monitoring Network Palliser

Station Information

Calibration Date	November 21, 2006	Previous Calibration	October 11, 2006
Station Number	101	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="text"/>
Start Time (MST)	13:35	End Time (MST)	16:40
Barometric Pressure	27.20 in Hg	Station Temperature	30.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	2998 ppm	Cal Gas Expiry Date	3/14/2008
		Cal Gas Cylinder #	BLM002248
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 1 volt	DACS channel #	11
	<u>Before</u>		<u>After</u>
Calculated slope	0.998371	Calculated slope	0.986610
Calculated intercept	-0.232401	Calculated intercept	-0.879055
Analyzer make	TEI Model 48C	Analyzer serial #	436609887

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO coefficient	1.064		1.064	
CO bkg setting	10.633		10.653	
Lamp ratio	1.1469		1.1460	
Lamp intensity	200116	Hz	200131	Hz
Sample Flow	1.005	LPM	1.005	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	0.73	N/A
4989	49.83	29.65	30.94	0.9582
4989	19.91	11.92	12.79	0.9321
4989	9.95	5.97	7.28	0.8195
4989	0.00	0.00	0.65	0.0000
4989	49.83	29.65	30.94	0.9582
Average Correction Factor				0.9033

Calculated value of As Found Response: 30.009 ppm Percent Change of As Found: -1.2%

	before calibration		after calibration	
Auto zero	0.06	ppm	-0.15	ppm
Auto span	18.09	ppm	16.14	ppm

Notes: Tried to adjust Zero, but were unsuccessful...

Calibration Performed By: Lenin Flores, Travis Mehrer

Calibration Summary

Parameter CO
 Air Monitoring Network Palliser

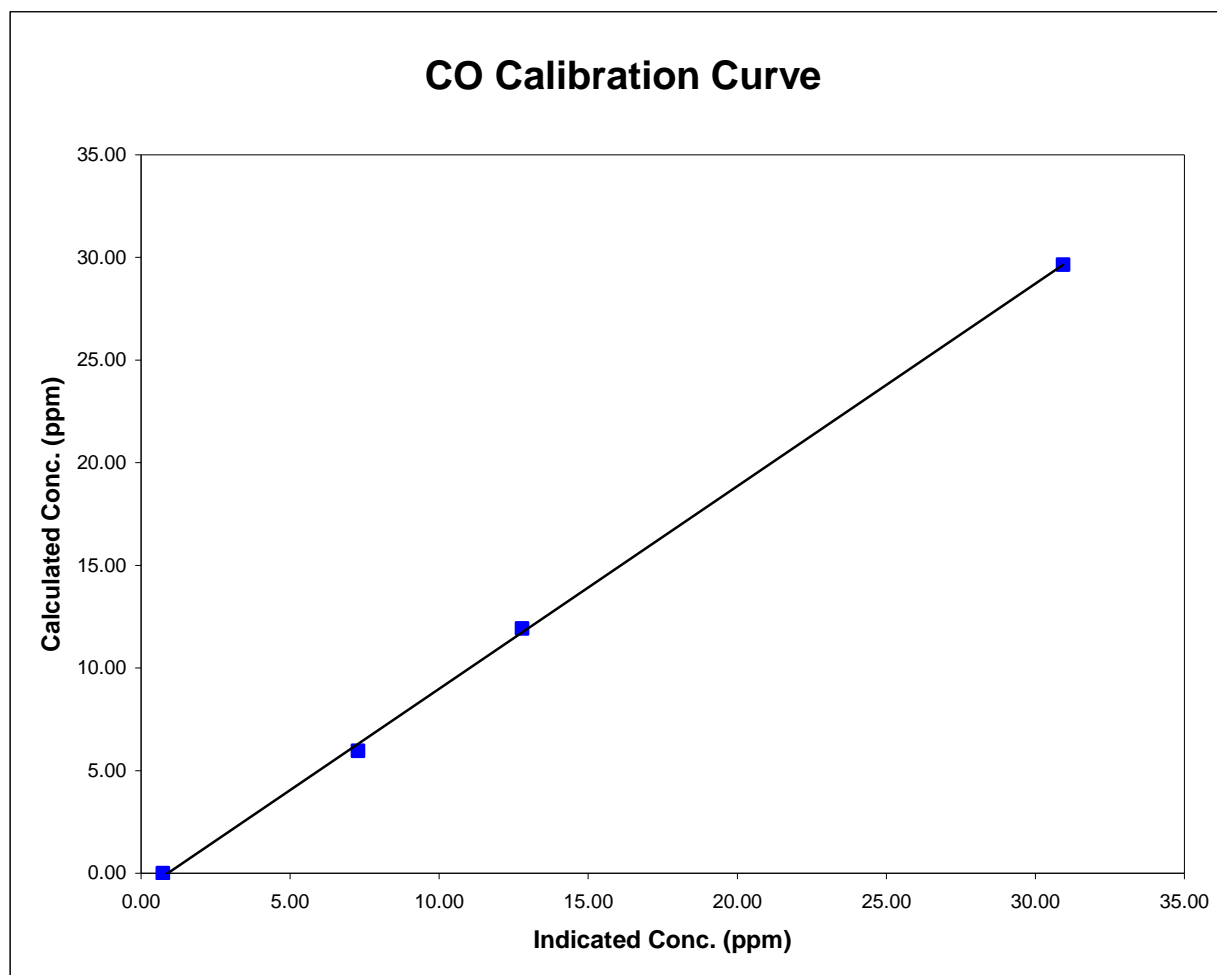


Station Information

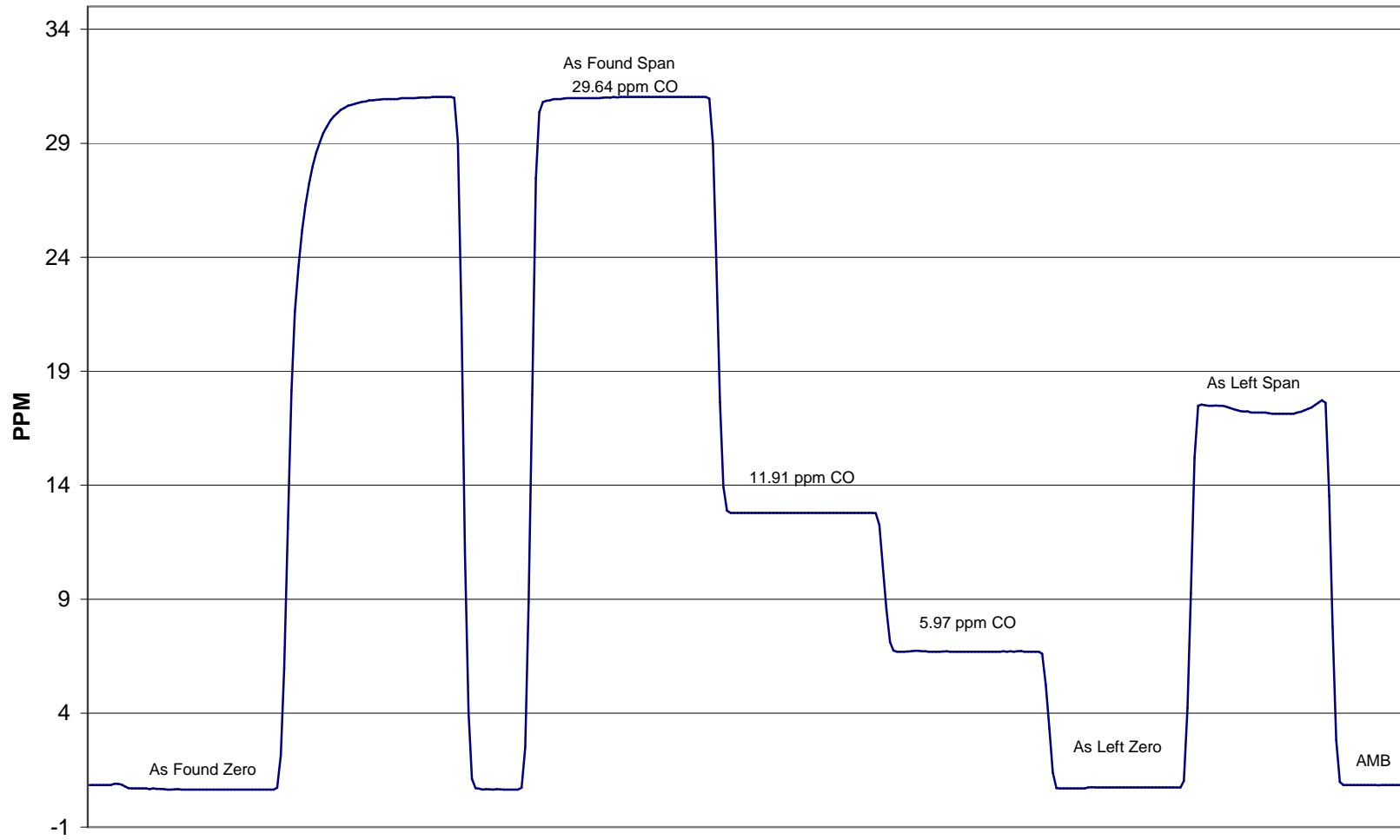
Calibration Date	November 21, 2006	Previous Calibration	October 11, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	13:35	End Time (MST)	16:40
Analyzer make/model	TEI Model 48C	Analyzer serial #	436609887

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.00	0.73	N/A		
29.65	30.94	0.9582	Correlation Coefficient	0.999652
11.92	12.79	0.9321		
5.97	7.28	0.8195	Slope	0.986610
			Intercept	-0.879055



CO Calibration



November 21, 2006

Calibration Report

Parameter PM2.5
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	November 22, 2006	Previous Calibration	October 12, 2006
Station Number	1	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="text"/>
Start Time (MST)	9:00	End Time (MST)	8:45
Barometric Pressure	0.921 ATM	Station Temperature	25.0 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	2.990	SLPM	2.990	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	41%	%	41%	%
Ko Factor	NA		NA	
Temperature	-8.0	Deg C	-8.0	Deg C
Pressure	0.918	ATM	0.918	ATM

Calibration Data

Parameter	Set Point	TEOM Reading (as found)	Tolerance	TEOM Reading (after adjustments)
zero flow - main	0.0	-0.01	0.00	-0.01
zero flow - auxillary	0.0	-0.02	0.01	-0.02
flow recovery - main	45 - 60 Seconds	25.0	45 - 60 Seconds	25.0
flow recovery - aux	46 - 60 Seconds	35.0	46 - 60 Seconds	35.0
Temperature	measured	-8.0	+/- 1.0 Deg C	-8.0
Pressure	measured	0.918	+/- 1.5% ΔATM	0.918
Total Flow	16.67 SLPM	16.58		16.58
Auxiliary flow	13.67 SLPM	13.74	+/- 1.0 SLPM	13.74
Main flow	3.0 SLPM	2.939	+/- 0.2 SLPM	2.939
Leak Check - main	0.0	0.00	<0.15 SLPM	0.00
Leak Check - aux	0.0	-0.02	<0.15 SLPM	-0.02
Ko Factor (w/o filter)	measured	NA	filter weight (g)	NA
Ko Factor (w/ filter)	measured	NA	% Ko difference	NA

Notes: No adjustments were necessary

Calibration Performed By: Lenin Flores, Travis Mehrer