



Palliser Airshed Society

Ambient Air Monitoring Network Summary

October 2007

Prepared By:



TABLE OF CONTENTS

Airshed Zone Association – October PAS Ambient Air Summary Report	4
PAS - Crescent Heights - AQI Monthly Summary	7
PAS - Crescent Heights Nitrogen Dioxide Monthly Summary	8
PAS - Crescent Heights Nitric Oxide Monthly Summary	13
PAS - Crescent Heights Ozone Monthly Summary	19
PAS - Crescent Heights Ozone Eight Hour Average Summary	24
PAS - Crescent Heights Carbon Monoxide Monthly Summary	25
PAS - Crescent Heights Carbon Monoxide Eight Hour Average Summary	30
PAS - Crescent Heights Total Hydrocarbons Monthly Summary	31
PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Monthly Summary	36
PAS - Crescent Heights Relative Humidity Monthly Summary	41
PAS - Crescent Heights Temperature Monthly Summary	43
PAS - Crescent Heights Solar Radiation Monthly Summary	45
PAS - Crescent Heights Scalar Wind Speed Monthly Summary	47
PAS - Crescent Heights Vector Wind Speed Monthly Summary	48
PAS - Crescent Heights Wind Direction Monthly Summary	49
PAS - Crescent Heights Standard Deviation of Wind Direction Monthly Summary	50
Passive Monitoring – October 2007	52
October 2007 - Calibration Reports	57

Table of Figures

Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend	9
Figure 2. PAS - Crescent Heights Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend	11
Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trend	15
Figure 4. PAS - Crescent Heights Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend	18
Figure 5. PAS - Crescent Heights Ozone 1-hr Average Monthly Trend	20
Figure 6. PAS - Crescent Heights Ozone Instantaneous (30 Second) Maximum Value Monthly Trend	22
Figure 7. PAS - Crescent Heights Carbon Monoxide 1-hr Average Monthly Trend	26
Figure 8. PAS - Crescent Heights Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend	28
Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend	32
Figure 10. PAS - Crescent Heights Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend	34
Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend	37



Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend.....39

Figure 13. PAS - Crescent Heights Relative Humidity 1-hr Average Monthly Trend42

Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend.....44

Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend.....46



November 28, 2007

Alberta Environment
12th Floor, Oxbridge Place
9820-106 Street
Edmonton Alberta T6B 2X3

Attention: Director of Monitoring and Evaluation

RE: Palliser Airshed Society (PAS) Ambient Air Monitoring Report – October 2007

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

Continuous Monitoring – Crescent Heights

Included in this report are; monthly sampling table, detailed hourly average reports and multipoint calibration reports of all instruments. The measured ambient air quality was within the Provincial and Federal guidelines with no exceedences recorded. All analyzers and instruments were 100% operational for the month of October.

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

- Monthly average concentrations of NO₂ was 4.8 ppb
- Monthly average concentrations for O₃ was 25.0 ppb
- Monthly average concentrations for CO was 0.14 ppm
- Monthly average concentrations for THC was 2.05 ppm
- Monthly average concentrations for PM_{2.5} was 2.9 µg/m³

The Air Quality Index (AQI) recorded 707 hours of Good readings for the month of October.

Passive Monitoring – Twenty Sites throughout the PAS zone:

On August 30th 2007 the PAS Passive Monitoring program was expanded to twenty sites throughout the Palliser region. Three of the original sites (Monitoring Station, Redcliff and Christian School Park) remained (however, their site numbers changed), the other three were removed (Hospital, Ball Park and Southridge) and seventeen new sites were installed - site documentation to follow. The passive sample analyses were performed by MAXXAM Analytics Inc. The following are the ranges for October 2007 recorded by the twenty passive stations located throughout the PAS zone.

- ◆ Average concentrations for SO₂ passives ranged from 0.1 to 1.2 ppb with a mean of 0.3 ppb.
- ◆ Average concentrations for NO₂ passives ranged from 0.6 to 8.1 ppb with a mean of 3.0 ppb.
- ◆ Average concentrations for O₃ passives ranged from 22.8 to 31.5 ppb with a mean of 26.4 ppb.

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

Sharon Whiteley, B.Sc.
AQM Data Specialist

Barb Johnson, E.I.T.
AQM Project Coordinator



Continuous Monitoring

Ambient Air Monitoring Network

Crescent Heights Station

General Station Issues

Calibrations were performed on October 29th (NO_x, O₃, THC and CO) and October 30th (O₃ and TEOM).

Parameter	Make	Model	Units	Notes
Ozone	TECO	43I	ppb	No operational problems observed.
Nitrogen Dioxide	Teledyne - API	200E	ppb	No operational problems observed.
Total Hydrocarbons	Bendix	400A	ppm	Analyzer did not zero or span after the calibration on October 29 th due to a connector that was not affixed properly, it was reconnected on November 2 nd .
Carbon Monoxide	TEI	49C	ppm	No operational problems observed.
PM _{2.5}	R&P TEOM	1400ab	µg/m ³	No operational problems observed.
Wind Speed	Met One	010C	kph	No operational problems observed.
Wind Direction	Met One	020C	Deg	No operational problems observed.
Ambient Temperature	Met One	083D	DegC	No operational problems observed.
Relative Humidity	Met One	083D	%	No operational problems observed.
Solar Radiation	Met One	096-1	W/m ²	No operational problems observed.
Data Acquisition System	Titan Logix	AP1000		No operational problems observed.



October 2007 Monthly Overall Summary Report Ambient Air Quality Data

Oct-2007 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	3.0	-	-	58.2	Oct-15 08:00	5.2	ENE	11.2	Oct-12	100.0%
NO ₂ (ppb)	212	106	Crescent Heights	4.8	0	0	27.2	Oct-08 20:00	4.2	N	10.6	Oct-12	100.0%
NO _x (ppb)			Crescent Heights	7.5	-	-	75.9	Oct-15 08:00	5.2	ENE	21.7	Oct-12	100.0%
O ₃ (ppb)	82		Crescent Heights	25.0	0	-	45.5	Oct-16 13:00	12.2	SSW	36.7	Oct-29	100.0%
O ₃ (ppb) - 8-hr	65		Crescent Heights		0						41.5	Oct-15	
CO (ppm)	13		Crescent Heights	0.14	0	-	1.0	Oct-12 21:00	3	NNE	0.3	Oct-12	100.0%
CO (ppm) - 8-hr	5		Crescent Heights		0						0.4	Oct-15	
THC (ppm)			Crescent Heights	2.05	-	-	3.1	Oct-13 02:00	4.1	NNE	2.4	Oct-13	100.0%
PM _{2.5} (µg/m ³)		30 ^a	Crescent Heights	2.9	0	0	13.9	Oct-30 01:00	18.5	NW	7.6	Oct-29	100.0%
RH (%)			Crescent Heights	55.4	-	-	-	-	-	-	-	-	100.0%
SR (W/m ²)			Crescent Heights	117.6	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Crescent Heights	9.3	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)			Crescent Heights	12.5	-	-	34.9	Oct-24 08:00	34.9	SSW	21.4	Oct-02	100.0%
WSPD s (km/hr)			Crescent Heights	13.1	-	-	35.1	Oct-24 08:00	35.1	SSW	24.3	Oct-24	100.0%
WDIR			Crescent Heights	SW	-	-	-	-	-	-	-	-	100.0%

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



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: October 1, 2007 to November 1, 2007

Alberta's Air Quality Index

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

Summary

Number of 1-hr Good Readings:	707
Number of 1-hr Fair Readings:	0
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day	Mountain Standard Time																							
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1-Oct-07	N	10	10	9	9	8	9	8	10	16	19	19	19	20	18	18	17	16	15	16	20	14	16	N
2-Oct-07	15	14	14	11	10	10	9	11	14	16	17	18	19	20	20	20	19	17	17	16	14	15	N	16
3-Oct-07	17	16	14	11	7	7	4	5	10	15	17	17	18	17	17	18	16	15	13	11	11	N	10	11
4-Oct-07	9	8	8	8	6	3	4	5	8	9	12	13	14	14	15	17	16	16	7	18	N	15	12	11
5-Oct-07	11	11	11	10	10	9	8	8	8	9	9	11	13	14	16	17	16	15	14	N	10	10	10	9
6-Oct-07	10	10	10	9	8	8	8	7	7	10	13	14	14	15	15	16	15	14	N	6	3	4	3	2
7-Oct-07	3	6	8	9	8	5	9	12	13	16	15	16	16	17	17	16	15	N	12	10	11	11	11	10
8-Oct-07	9	8	8	7	6	6	6	8	14	17	19	19	20	20	21	21	N	17	14	6	6	6	5	4
9-Oct-07	3	3	3	3	3	2	3	10	16	18	19	22	21	20	20	N	19	20	19	18	17	16	16	18
10-Oct-07	19	18	18	19	18	18	17	13	14	14	14	14	16	17	N	16	15	14	11	13	8	12	16	12
11-Oct-07	11	13	14	16	15	8	6	6	6	5	7	11	15	N	20	19	18	16	15	8	8	7	9	12
12-Oct-07	10	11	5	4	3	3	3	3	5	4	4	8	N	19	17	15	15	11	8	5	4	6	5	5
13-Oct-07	3	3	3	4	3	3	3	4	6	6	6	N	13	16	20	21	19	17	12	9	8	5	6	4
14-Oct-07	6	5	5	8	3	3	3	5	6	6	N	14	18	20	20	20	18	17	10	9	9	13	15	15
15-Oct-07	15	12	7	7	5	5	4	6	9	N	19	20	21	22	22	22	20	17	18	19	18	20	19	20
16-Oct-07	20	20	20	19	19	14	8	7	N	17	19	19	22	23	23	20	18	16	13	13	7	8	15	14
17-Oct-07	13	12	13	12	12	11	10	N	11	9	12	12	16	18	16	15	10	9	10	8	9	7	8	10
18-Oct-07	12	12	12	12	10	5	N	6	5	11	13	16	21	22	22	22	21	17	10	15	13	9	6	8
19-Oct-07	18	18	16	15	15	N	12	13	13	14	14	16	18	18	17	15	12	17	19	18	18	17	16	16
20-Oct-07	13	13	12	12	N	10	9	9	9	10	15	17	18	20	20	20	19	14	11	13	12	9	5	5
21-Oct-07	5	6	4	N	7	7	7	7	8	10	12	14	19	20	19	20	17	14	12	13	12	13	13	14
22-Oct-07	14	17	N	14	12	15	16	16	16	17	18	18	17	18	17	16	15	14	14	13	13	14	14	14
23-Oct-07	14	N	14	14	10	8	5	6	5	5	6	8	12	14	15	15	11	8	8	7	8	8	11	10
24-Oct-07	N	10	10	10	9	10	9	9	10	11	12	14	16	17	17	16	14	12	11	10	12	14	16	N
25-Oct-07	20	20	20	19	19	16	13	14	16	15	16	18	18	19	21	19	18	17	15	12	8	7	N	5
26-Oct-07	4	6	7	3	4	2	3	4	5	8	12	16	19	20	20	19	18	18	17	14	10	N	9	8
27-Oct-07	6	4	4	4	4	4	4	7	12	17	18	19	20	20	21	20	18	16	16	14	N	17	17	17
28-Oct-07	16	12	15	12	16	19	15	14	7	11	17	18	21	22	19	21	22	15	13	N	19	19	20	16
29-Oct-07	18	19	19	20	20	18	16	15	19	19	20	20	22	21	18	19	19	18	18	16	13	16	18	20
30-Oct-07	13	12	N	13	16	14	10	N	N	N	13	16	17	17	18	15	14	9	8	7	5	4	9	8
31-Oct-07	9	7	N	6	8	7	4	7	N	N	12	14	13	17	19	19	13	10	12	9	10	12	13	13



PAS - Crescent Heights Nitrogen Dioxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

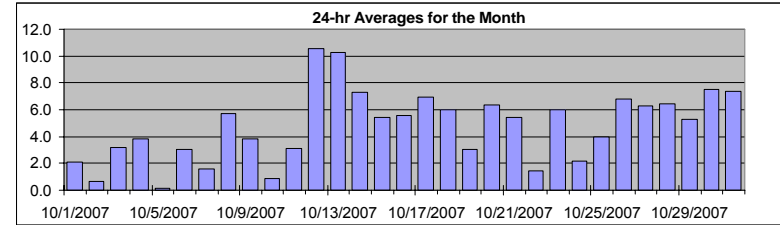
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: October 1, 2007 to November 1, 2007

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

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	27.2 ppb 8-Oct 20:00 21:00
Maximum 24-hr Average:	10.6 ppb 12-Oct



AIC Time:	35 hrs	Operational Time:	705 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	20.5	16.4	7.5	2.4	0.1	0.0	0.0	4.8 ppb	2.4 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																							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			
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-Oct-07	A	1	1	1	4	8	6	7	4	0	0	0	2	0	2	1	3	5	0	1	1	0	0	A		2.1	7.7	
2-Oct-07	0	0	0	0	2	2	6	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0		0.7	5.9	
3-Oct-07	0	0	0	1	7	7	13	14	5	1	0	0	0	0	0	2	2	5	7	4	A	5	2			3.2	13.6	
4-Oct-07	2	2	2	2	6	12	15	16	2	0	0	0	0	0	2	2	4	3	19	0	A	0	0	0			3.9	19.0
5-Oct-07	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0			0.1	1.3
6-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	A	12	13	16	14	10			3.0	16.3
7-Oct-07	11	6	1	1	3	8	3	0	0	0	0	0	0	0	0	0	0	A	0	3	0	1	0	0			1.6	10.7
8-Oct-07	0	1	0	1	0	1	4	4	1	0	0	0	0	0	0	0	A	4	8	19	27	26	18	17			5.7	27.2
9-Oct-07	12	12	13	12	11	10	14	5	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0			3.9	14.0
10-Oct-07	0	0	0	0	0	0	0	4	0	0	0	1	0	0	A	0	0	1	6	0	7	1	0	0			0.9	6.8
11-Oct-07	0	0	0	0	0	2	6	5	4	4	2	2	1	A	1	2	3	1	3	11	8	8	5	2			3.1	10.7
12-Oct-07	6	2	11	15	11	11	11	12	15	12	11	7	A	2	3	2	2	6	12	14	18	22	20	16			10.6	22.1
13-Oct-07	13	15	14	15	13	11	13	17	13	12	10	A	4	2	1	2	4	7	14	14	10	14	10	10			10.3	16.9
14-Oct-07	8	14	15	18	13	14	12	11	11	12	A	4	0	0	0	0	1	2	12	10	7	3	0	2			7.3	17.8
15-Oct-07	1	4	10	9	11	11	17	18	18	A	2	0	0	0	0	0	4	7	5	1	4	1	2	0			5.4	18.1
16-Oct-07	0	0	0	0	0	6	19	22	A	2	0	1	0	0	0	2	4	7	10	11	19	19	4	3			5.6	21.8
17-Oct-07	2	1	0	1	1	4	6	A	10	8	5	3	2	1	4	5	8	14	18	17	19	15	10	6			7.0	18.6
18-Oct-07	1	1	1	0	2	9	A	19	12	5	4	3	1	1	0	1	2	7	16	4	5	10	19	15			6.0	19.4
19-Oct-07	1	0	0	1	0	A	6	5	6	3	4	1	0	0	5	8	14	4	0	2	1	3	3	2			3.0	13.6
20-Oct-07	7	4	2	3	A	5	8	8	9	6	3	1	2	0	0	0	1	6	12	10	9	10	19	20			6.4	20.4
21-Oct-07	21	23	17	A	6	5	6	5	3	1	0	1	0	1	2	2	6	7	7	5	3	2	1	1			5.4	22.9
22-Oct-07	5	0	A	3	6	3	2	3	2	0	0	1	2	0	0	1	0	1	1	1	1	0	0	0			1.4	6.1
23-Oct-07	0	A	1	0	4	6	9	13	12	9	10	12	4	3	3	4	8	10	9	7	6	5	2	2			6.0	13.5
24-Oct-07	A	2	1	2	2	2	2	4	2	2	1	1	0	0	0	1	2	5	6	8	5	1	0	A			2.2	7.5
25-Oct-07	0	0	0	0	1	5	10	7	5	5	5	1	2	1	0	0	1	2	3	6	11	12	A	13			4.0	13.2
26-Oct-07	17	9	6	13	11	10	14	14	9	5	2	1	1	1	1	0	1	2	2	5	11	A	9	8			6.8	17.4
27-Oct-07	10	11	15	16	19	17	16	11	3	0	0	0	0	0	1	1	3	3	3	5	A	3	3	2			6.3	18.6
28-Oct-07	3	9	7	12	2	2	7	9	21	15	5	5	3	2	8	5	2	9	10	A	4	3	1	5			6.4	21.2
29-Oct-07	1	3	1	1	1	4	8	10	5	5	C	C	C	C	A	6	5	7	4	8	16	10	4	2			5.3	15.6
30-Oct-07	6	10	A	3	5	4	8	6	6	6	4	1	1	1	2	6	7	17	16	14	22	15	5	5			7.5	22.4
31-Oct-07	5	6	A	10	7	9	15	12	A	A	8	5	7	7	4	4	14	14	7	8	5	4	3	2			7.4	15.0
Hourly Avg	4.5	4.5	4.2	4.7	4.9	6.3	8.5	8.8	6.1	3.8	2.7	1.8	1.1	0.8	1.4	1.8	3.4	5.2	7.0	6.9	8.2	7.1	5.4	5.1				
Hourly Max	20.5	22.9	17.4	17.8	18.6	17.1	18.7	21.8	21.2	15.1	10.7	11.5	6.7	6.5	7.6	7.8	13.9	17.2	19.0	19.3	27.2	25.7	19.7	20.4				

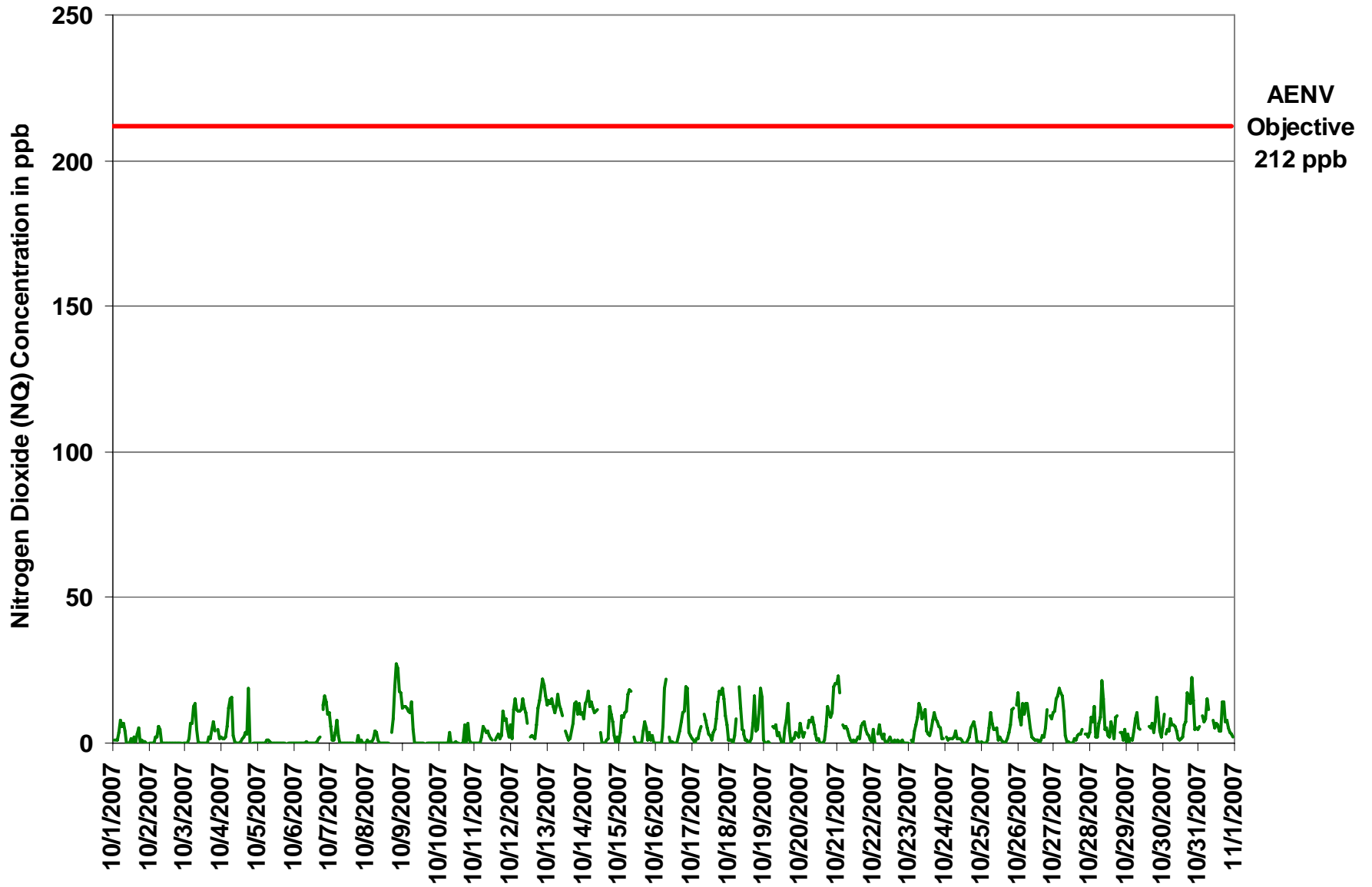


Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

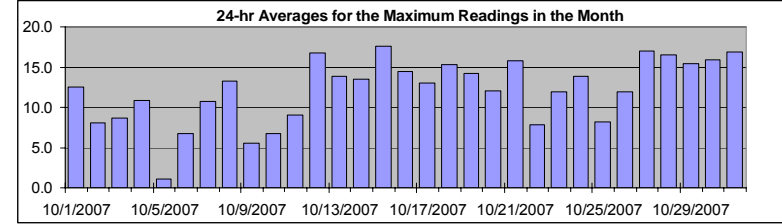
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	42.8	ppb	24-Oct	17:00 18:00
Maximum 24-hr Value:	17.6	ppb	15-Oct	



AIC Time:	35 hrs	Operational Time:	705 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	38.2	31.2	18.9	10.2	3.0	0.0	0.0	12.1 ppb	10.2 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Oct-07	A	3	13	3	24	14	13	10	30	1	25	3	18	0	29	7	23	27	3	5	4	19	0	A	12.5	29.8
2-Oct-07	0	0	0	3	20	16	9	9	7	1	0	1	21	0	0	1	6	1	22	29	1	1	A	37	8.1	36.5
3-Oct-07	0	0	13	4	13	11	17	21	10	14	1	6	1	3	2	2	4	4	12	13	9	A	26	12	8.7	25.6
4-Oct-07	13	17	4	7	14	18	17	25	10	2	1	24	21	3	3	12	6	16	30	2	A	1	1	1	10.8	30.3
5-Oct-07	0	0	0	0	0	0	9	10	2	0	2	0	0	0	0	0	0	0	A	2	1	0	0	0	1.1	10.2
6-Oct-07	0	0	0	0	1	0	0	1	4	15	0	14	0	8	2	3	3	5	A	21	18	22	25	13	6.8	25.1
7-Oct-07	20	9	25	8	26	19	17	2	2	0	0	22	0	0	0	10	0	A	2	31	2	31	17	4	10.7	31.1
8-Oct-07	26	15	17	13	11	13	11	8	7	2	3	2	1	4	3	1	A	8	16	41	31	30	23	19	13.2	41.2
9-Oct-07	16	14	16	15	13	20	22	13	0	0	0	0	0	0	0	A	1	0	0	0	0	0	0	0	5.6	21.6
10-Oct-07	0	0	0	0	1	0	12	22	1	1	1	13	2	3	A	2	5	5	16	3	18	12	19	20	6.8	22.4
11-Oct-07	14	0	18	19	0	7	11	6	7	6	5	2	3	A	6	5	8	8	8	20	19	15	18	4	9.0	19.6
12-Oct-07	37	4	17	19	18	15	14	24	17	17	13	9	A	5	6	5	3	14	22	27	25	34	22	18	16.7	37.3
13-Oct-07	15	17	16	17	14	13	15	20	19	14	13	A	5	4	2	4	9	13	21	24	13	20	18	13	13.9	24.4
14-Oct-07	12	20	22	23	17	17	14	12	18	15	A	6	15	2	17	5	23	9	20	19	11	6	3	4	13.5	23.1
15-Oct-07	4	25	22	29	25	30	34	30	29	A	42	10	0	0	2	2	24	11	31	5	10	8	16	14	17.6	42.3
16-Oct-07	0	2	0	4	1	32	30	38	A	19	1	3	0	0	2	4	19	9	34	37	27	35	13	22	14.5	38.5
17-Oct-07	33	3	1	3	4	14	9	A	22	17	11	5	6	4	6	6	15	17	22	22	21	21	14	24	13.0	33.2
18-Oct-07	3	4	7	1	4	18	A	35	17	19	10	17	5	4	4	21	4	12	36	20	10	31	31	38	15.3	38.4
19-Oct-07	11	0	2	3	1	A	8	32	21	5	33	27	1	1	33	29	19	27	2	21	7	16	23	6	14.3	33.1
20-Oct-07	31	20	5	28	A	8	13	12	10	8	6	2	5	0	1	1	3	9	22	14	11	12	30	26	12.0	30.5
21-Oct-07	35	33	24	A	15	20	17	21	4	16	13	25	3	3	7	4	25	22	26	25	18	4	3	3	15.8	35.2
22-Oct-07	29	0	A	5	27	17	3	8	8	4	1	14	11	4	4	10	2	7	2	6	10	0	3	5	7.9	29.3
23-Oct-07	4	A	11	2	12	10	15	15	16	13	22	14	8	4	5	29	12	16	11	12	8	7	21	8	11.9	28.7
24-Oct-07	A	24	13	18	3	14	8	27	7	3	3	4	2	1	1	27	5	43	24	31	42	2	3	A	13.9	42.8
25-Oct-07	2	1	1	1	2	9	21	10	7	12	8	3	4	4	3	2	2	5	6	15	26	26	A	18	8.2	26.5
26-Oct-07	19	20	9	18	28	14	19	31	13	7	5	12	3	3	5	1	3	4	5	8	25	A	11	11	11.9	30.9
27-Oct-07	19	14	19	19	37	21	23	35	26	15	13	19	2	9	30	3	19	6	12	35	A	6	5	5	17.0	36.6
28-Oct-07	9	33	25	39	5	4	10	11	31	27	6	13	5	14	12	8	9	28	19	A	6	35	2	29	16.4	38.7
29-Oct-07	3	23	2	3	3	14	28	32	25	21	C	C	C	C	A	31	10	10	7	15	22	23	14	6	15.4	32.4
30-Oct-07	17	18	A	6	12	8	17	9	9	8	8	4	4	6	6	38	12	37	34	20	31	24	31	7	15.9	38.2
31-Oct-07	6	15	A	12	24	11	18	16	A	A	24	19	30	33	9	11	31	21	11	19	8	7	25	4	16.8	32.7
Hourly Avg	13.0	11.2	10.8	10.7	12.4	13.6	15.1	18.2	13.0	9.7	9.3	10.1	6.2	4.2	6.9	9.5	10.2	13.1	15.9	18.6	15.0	15.4	14.3	12.8		
Hourly Max	37.3	33.2	25.3	38.7	36.6	32.5	33.8	38.5	31.1	26.8	42.3	27.0	30.3	32.7	32.6	38.2	30.7	42.8	35.9	41.2	42.5	35.4	30.7	38.4		

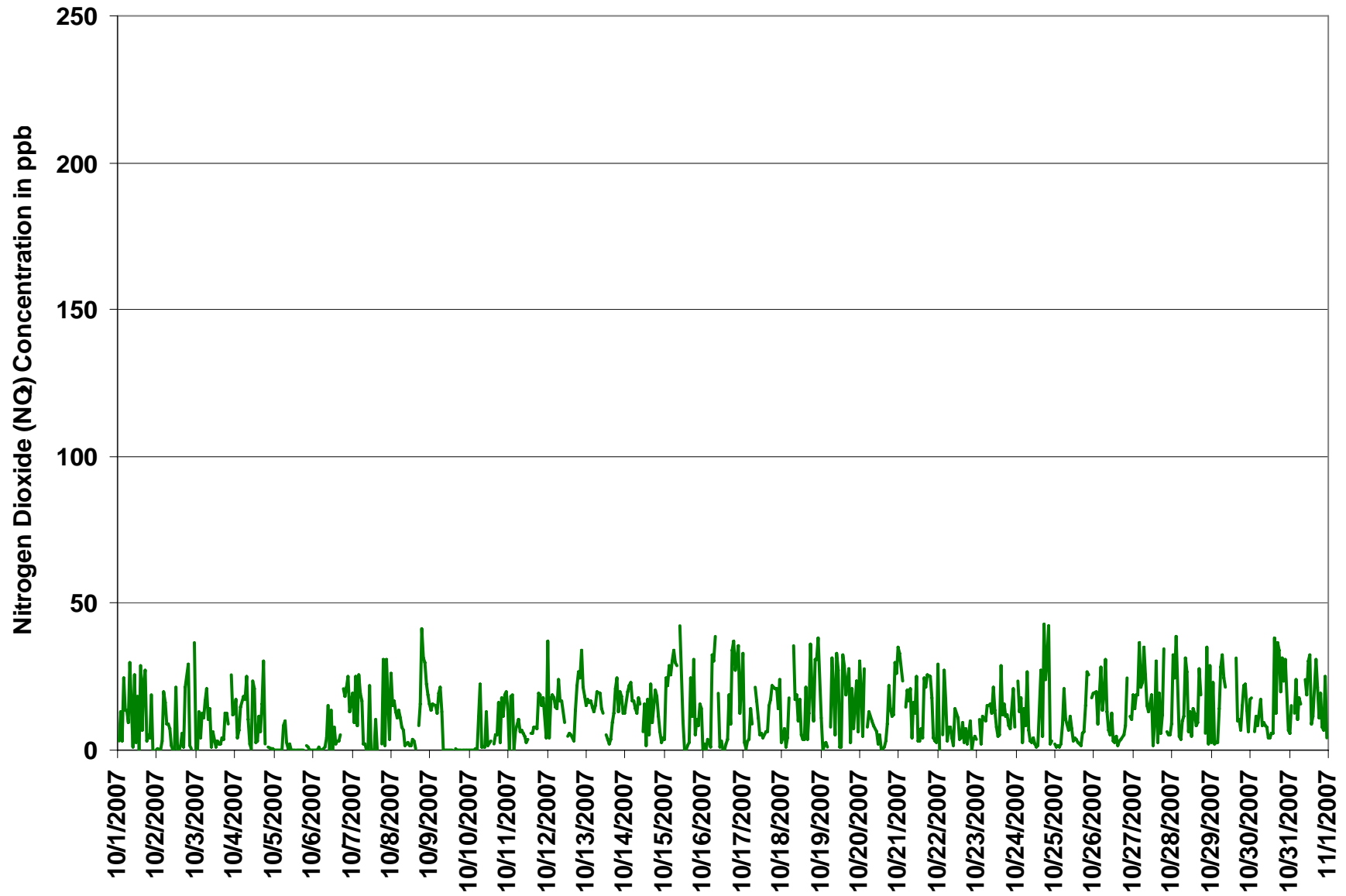
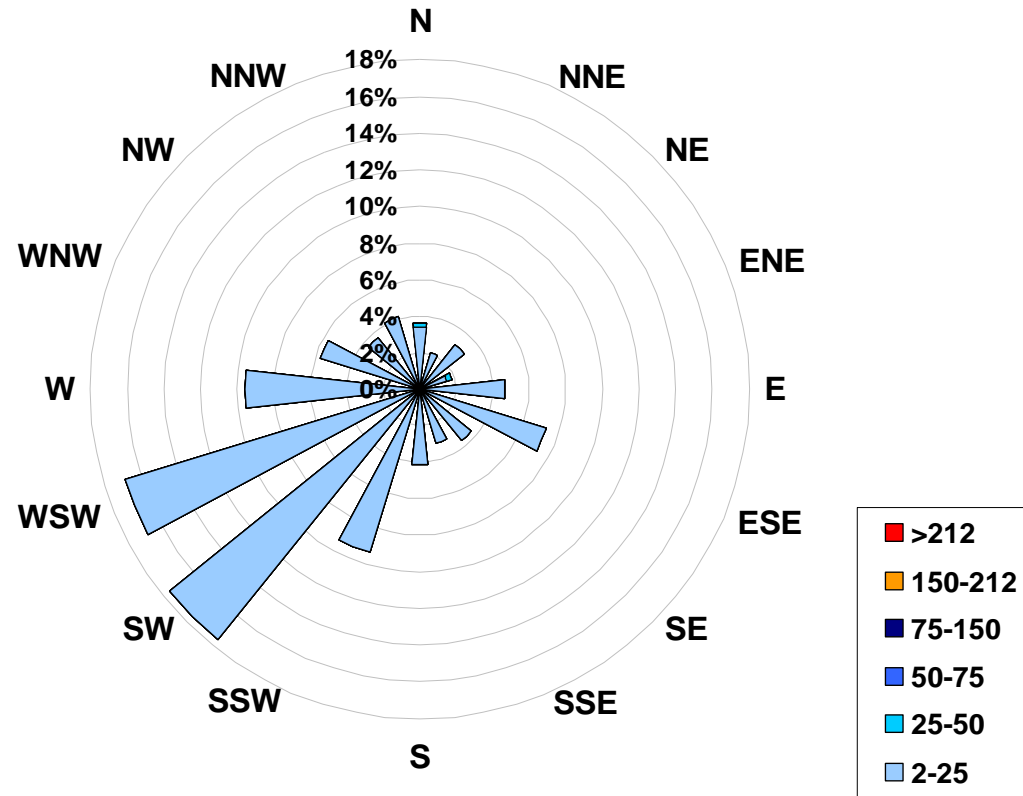


Figure 2. PAS - Crescent Heights Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		693
25	to 50		8
50	to 75		4
75	to 150		0
150	to 212		0
	> 212		0
Total Non-Zero Values			705



PAS - Crescent Heights Nitric Oxide Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

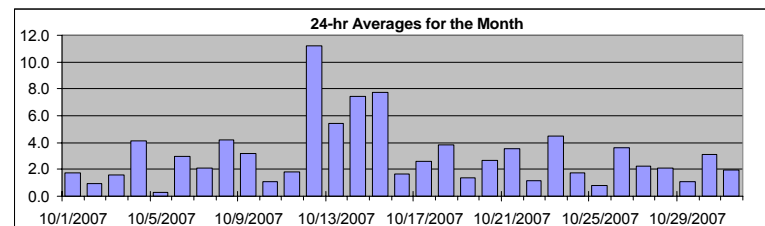
Nitric Oxide (NO)

Monitoring Dates: October 1, 2007 to November 1, 2007

Guideline Limit:
 Summary

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

Maximum 1-hr Average:	58.2	ppb	15-Oct	8:00	9:00
Maximum 24-hr Average:	11.2	ppb	12-Oct		



AIC Time:	35 hrs	Operational Time:	705 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	36.6	13.2	2.8	1.2	0.4	0.0	0.0	3.0 ppb	1.2 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
1-Oct-07	A	0	0	1	3	1	1	3	4	1	2	1	2	1	4	2	3	4	0	0	0	1	0	A	1.7	4.5
2-Oct-07	0	0	0	0	2	2	1	2	2	1	1	1	2	1	1	1	0	0	1	2	0	0	A	1	0.9	2.3
3-Oct-07	0	0	1	0	0	1	3	9	3	2	1	3	1	1	1	1	1	0	1	1	1	A	7	0	1.6	9.3
4-Oct-07	1	3	0	0	1	7	16	37	5	2	1	2	3	2	3	2	1	0	7	0	A	0	0	0	4.2	36.8
5-Oct-07	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	A	0	0	0	0.3	1.2
6-Oct-07	0	0	0	0	0	0	0	1	1	2	1	2	1	1	1	2	1	0	A	3	3	28	17	3	3.0	27.7
7-Oct-07	9	2	7	0	4	5	2	1	2	1	1	2	1	1	0	1	1	A	1	3	0	3	1	0	2.1	9.5
8-Oct-07	4	3	3	5	2	2	1	2	2	1	0	0	1	0	1	0	A	1	0	9	14	25	12	10	4.2	24.7
9-Oct-07	2	7	13	13	10	4	20	2	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	3.1	19.6
10-Oct-07	0	0	0	0	0	0	1	3	2	2	2	2	2	2	A	1	1	1	1	0	2	1	1	1	1.1	2.8
11-Oct-07	1	0	1	1	0	2	5	5	4	4	5	4	2	A	2	1	0	0	0	1	0	1	3	0	1.8	4.8
12-Oct-07	2	0	3	2	2	3	6	23	53	24	24	10	A	2	1	1	0	2	5	6	13	51	14	12	11.2	52.8
13-Oct-07	5	5	4	9	5	3	4	22	25	16	10	A	3	2	1	1	1	0	2	1	0	3	3	0	5.4	24.7
14-Oct-07	0	5	9	38	14	15	7	21	31	22	A	4	1	0	0	1	1	0	1	1	0	0	0	0	7.5	38.4
15-Oct-07	0	3	3	5	5	6	38	51	58	A	2	1	1	0	1	0	2	1	1	0	0	0	1	0	7.7	58.2
16-Oct-07	0	0	0	0	0	3	2	13	A	2	1	1	0	0	0	1	2	0	3	3	1	6	0	2	1.7	13.1
17-Oct-07	2	0	0	0	0	1	1	A	5	3	2	2	2	1	3	2	1	3	7	8	12	2	0	3	2.6	11.6
18-Oct-07	0	0	0	0	0	4	A	39	9	3	4	3	1	1	0	1	1	0	6	2	0	2	5	5	3.8	39.1
19-Oct-07	0	0	0	0	0	A	0	2	3	1	3	3	1	1	5	3	3	2	0	2	0	1	2	0	1.4	4.6
20-Oct-07	6	2	0	3	A	1	2	2	4	6	3	1	1	1	1	0	0	1	1	1	1	10	12	2.7	11.7	
21-Oct-07	11	28	7	A	1	3	6	4	3	3	2	3	1	1	1	1	1	1	3	1	1	0	0	0	3.5	27.5
22-Oct-07	3	0	A	0	3	2	1	1	1	1	1	2	2	1	1	2	1	1	0	1	1	0	0	1	1.2	3.4
23-Oct-07	0	A	1	0	1	1	3	13	17	12	16	15	4	2	1	3	2	2	2	1	1	1	3	1	4.5	16.8
24-Oct-07	A	1	2	3	1	1	1	3	2	2	2	2	1	0	1	2	1	2	4	4	4	0	0	A	1.8	4.4
25-Oct-07	0	0	0	0	0	0	1	1	1	2	3	1	1	1	0	1	0	0	0	0	1	1	A	1	0.8	3.1
26-Oct-07	2	2	0	3	2	5	14	25	11	6	3	2	1	1	1	1	0	1	1	0	1	A	0	0	3.6	25.1
27-Oct-07	1	1	3	3	14	5	4	5	3	1	1	1	0	1	3	1	1	0	1	2	A	0	0	0	2.2	13.9
28-Oct-07	0	3	1	10	0	0	0	0	11	8	2	2	1	1	1	0	0	1	0	A	0	1	0	2	2.1	11.2
29-Oct-07	0	1	0	0	0	0	1	4	2	2	C	C	C	C	A	5	1	1	0	1	1	1	0	0	1.1	4.6
30-Oct-07	1	3	A	0	1	0	2	1	3	3	3	1	1	1	1	5	1	4	3	2	24	8	2	0	3.1	24.4
31-Oct-07	0	0	A	0	3	1	3	3	A	A	5	3	5	5	2	1	3	2	1	2	1	0	2	0	1.9	5.3
Hourly Avg	1.8	2.4	2.1	3.3	2.4	2.6	4.9	10.0	9.2	4.6	3.5	2.5	1.5	1.1	1.3	1.4	1.2	1.0	1.7	1.9	2.9	4.7	2.9	2.0		
Hourly Max	11.2	27.5	13.2	38.4	14.0	14.5	38.0	51.4	58.2	24.2	23.6	14.8	4.5	5.3	4.6	4.7	3.5	3.9	7.2	8.8	24.4	50.7	16.9	12.2		



PAS - Crescent Heights Oxides of Nitrogen Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

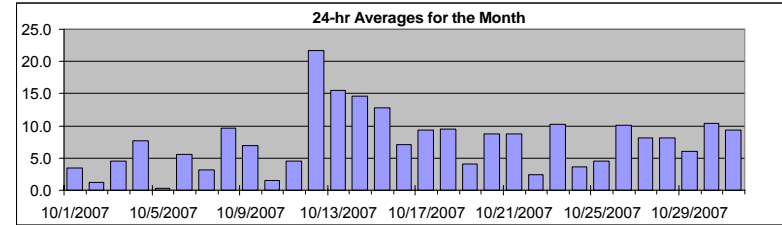
Monitoring Dates: October 1, 2007 to November 1, 2007

Guideline Limit: Alberta Environment:

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

Summary

Maximum 1-hr Average:	75.9	ppb	15-Oct	8:00	9:00
Maximum 24-hr Average:	21.7	ppb	12-Oct		



AIC Time:	35 hrs	Operational Time:	705 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	52.5	28.8	9.5	3.7	0.6	0.0	0.0	7.5 ppb	3.7 ppb

Status Flag Characters

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

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum
1-Oct-07	Hour End	A	1	1	2	7	9	7	9	8	1	2	0	4	0	6	2	6	9	0	1	1	1	0	A	3.5	9.5
2-Oct-07		0	0	0	0	4	4	7	7	2	0	0	0	1	0	0	0	0	0	0	1	0	0	A	0	1.2	7.0
3-Oct-07		0	0	0	1	7	8	15	23	7	2	0	2	0	1	0	0	3	2	5	8	4	A	12	2	4.5	22.7
4-Oct-07		2	4	2	2	6	19	31	53	8	2	1	1	3	3	4	4	5	3	26	0	A	0	0	0	7.7	52.6
5-Oct-07		0	0	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.2	2.3
6-Oct-07		0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	2	3	2	A	14	16	44	31	13	5.6	44.0
7-Oct-07		20	7	8	1	7	13	5	1	1	0	0	0	0	0	0	0	0	A	0	6	0	4	0	0	3.2	20.1
8-Oct-07		3	4	3	5	2	3	5	5	2	0	0	0	0	0	0	0	A	4	8	28	41	50	30	27	9.6	50.3
9-Oct-07		14	20	26	25	21	14	33	6	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	6.9	33.5
10-Oct-07		0	0	0	0	0	0	0	6	0	1	1	2	1	1	A	1	1	2	7	0	8	2	0	1	1.5	8.3
11-Oct-07		0	0	0	0	0	4	10	9	8	8	7	5	4	A	2	3	3	1	3	12	8	9	7	2	4.5	11.7
12-Oct-07		8	2	15	17	13	14	16	35	68	36	34	17	A	4	4	3	2	8	17	20	32	73	34	29	21.7	72.8
13-Oct-07		17	20	18	24	17	14	17	39	38	28	19	A	7	5	2	2	5	6	15	15	10	16	13	11	15.5	38.5
14-Oct-07		9	19	23	56	26	29	19	32	42	33	A	7	1	0	0	0	2	1	13	11	7	3	0	2	14.6	56.3
15-Oct-07		0	6	12	14	15	16	55	69	76	A	4	0	0	0	0	0	6	8	5	1	3	1	3	0	12.8	75.9
16-Oct-07		0	0	0	0	0	8	21	35	A	4	0	1	0	0	0	2	6	7	13	13	20	24	4	4	7.1	34.6
17-Oct-07		3	1	0	1	1	5	6	A	15	10	7	5	4	2	6	6	9	16	25	25	30	17	10	9	9.3	29.9
18-Oct-07		1	1	1	0	2	12	A	58	20	8	8	7	3	2	0	1	2	7	22	6	5	12	23	21	9.5	58.4
19-Oct-07		1	0	0	0	0	A	6	7	8	3	6	4	0	0	10	11	17	6	0	4	1	4	5	2	4.1	16.8
20-Oct-07		13	6	2	6	A	6	9	10	13	12	6	2	3	0	0	0	1	6	13	11	9	11	29	32	8.7	31.8
21-Oct-07		31	50	24	A	7	8	11	8	5	4	2	3	1	2	3	2	7	8	10	5	4	2	1	1	8.7	50.3
22-Oct-07		8	0	A	3	9	5	2	4	3	1	0	3	4	1	1	2	0	2	1	1	2	0	0	0	2.4	9.1
23-Oct-07		0	A	2	0	4	7	12	26	29	20	26	26	9	5	4	8	10	12	10	8	7	5	4	2	10.2	28.8
24-Oct-07		A	3	3	5	2	2	3	7	3	3	3	2	1	0	0	3	3	7	10	11	9	1	1	A	3.6	11.3
25-Oct-07		1	0	0	0	1	5	11	8	5	7	8	2	3	2	0	0	0	1	3	6	13	13	A	14	4.5	14.2
26-Oct-07		19	10	6	16	13	15	27	39	20	12	5	3	2	1	1	0	1	3	2	5	12	A	9	8	10.1	38.8
27-Oct-07		11	11	18	18	32	22	20	16	5	1	1	1	0	0	4	1	4	3	4	7	A	3	3	2	8.2	32.3
28-Oct-07		4	12	8	22	2	2	7	9	32	23	6	7	3	3	9	5	1	9	9	A	3	5	1	7	8.2	32.0
29-Oct-07		0	4	0	1	1	4	9	14	7	6	C	C	C	C	A	10	6	8	4	8	17	11	4	1	6.1	16.7
30-Oct-07		7	13	A	3	5	4	10	7	9	8	7	3	2	2	2	11	8	21	19	15	47	22	7	5	10.4	46.7
31-Oct-07		5	6	A	10	10	9	18	15	A	A	13	8	11	12	6	5	17	16	8	10	6	4	5	2	9.3	18.3
Hourly Avg		6.1	6.7	6.1	7.7	7.2	8.7	13.2	18.6	15.1	8.1	5.8	3.9	2.3	1.6	2.3	2.8	4.2	6.0	8.4	8.7	10.9	11.6	8.0	6.8		
Hourly Max		31.4	50.3	25.7	56.3	32.3	28.5	54.8	69.4	75.9	36.2	34.2	26.1	11.3	11.8	9.8	11.0	16.9	21.0	26.0	27.9	46.7	72.8	33.8	31.8		

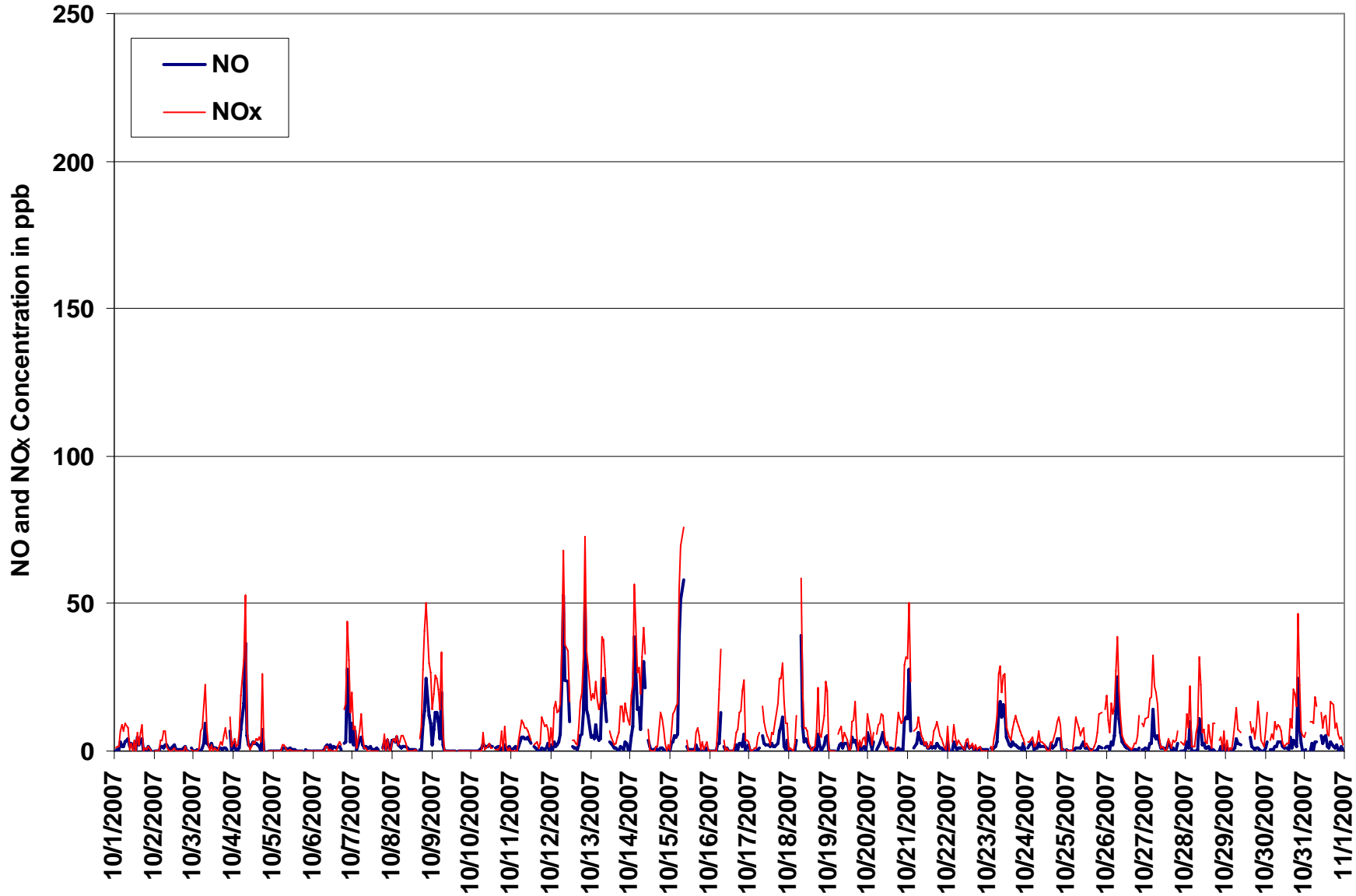


Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

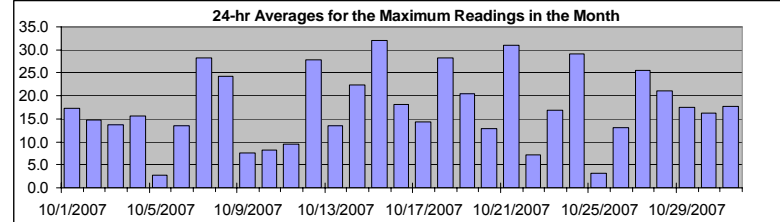
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	229.9	ppb	18-Oct	7:00 8:00
Maximum 24-hr Value:	32.0	ppb	15-Oct	



AIC Time:	35 hrs	Operational Time:	705 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	115.2	72.2	25.3	4.0	1.6	0.7	0.4	17.5 ppb	4.0 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Oct-07	A	1	17	3	64	5	3	5	64	3	45	3	18	1	54	6	32	28	1	2	1	25	1	A	17.3	64.0	
2-Oct-07	7	1	1	1	40	20	3	4	16	2	2	6	30	2	2	3	6	1	38	84	1	1	A	67	14.7	84.3	
3-Oct-07	1	0	20	1	2	3	7	22	13	24	2	56	2	2	4	2	2	1	3	2	3	A	136	7	13.6	135.7	
4-Oct-07	30	53	2	2	5	26	29	74	18	3	3	30	30	4	4	10	2	5	29	1	A	1	1	0	15.6	73.8	
5-Oct-07	1	1	1	1	1	1	22	18	4	1	4	1	1	1	1	1	1	1	1	A	1	1	1	1	1	2.8	22.2
6-Oct-07	1	1	1	1	1	1	1	2	3	30	2	54	2	15	4	3	2	2	A	7	11	50	109	8	13.5	109.1	
7-Oct-07	42	4	157	1	84	43	61	2	3	2	2	30	1	1	1	24	1	A	2	54	2	90	31	11	28.3	157.4	
8-Oct-07	91	43	41	56	41	38	4	2	6	3	2	2	2	3	3	1	A	15	1	78	35	32	39	20	24.2	90.7	
9-Oct-07	12	12	22	20	14	30	38	12	1	1	1	1	1	1	1	A	2	1	1	1	1	1	1	1	7.6	38.2	
10-Oct-07	1	2	1	1	1	1	15	18	3	3	2	15	3	6	A	2	14	2	4	1	8	3	29	54	8.3	54.4	
11-Oct-07	26	1	30	43	1	7	19	6	8	5	6	6	4	A	5	2	2	1	1	4	2	2	32	1	9.4	42.9	
12-Oct-07	61	2	8	6	7	7	15	97	63	43	33	18	A	3	4	2	1	7	26	38	47	106	28	20	27.9	106.0	
13-Oct-07	10	15	10	12	8	10	23	65	51	22	14	A	4	4	2	1	3	1	7	4	2	11	26	2	13.5	64.8	
14-Oct-07	3	22	45	81	60	28	13	38	57	37	A	6	28	12	28	10	30	3	4	5	1	1	0	1	22.4	81.5	
15-Oct-07	1	45	40	48	50	46	114	115	126	A	25	12	1	1	2	1	34	2	39	0	1	1	17	15	32.0	125.7	
16-Oct-07	1	1	0	0	0	26	18	98	A	26	2	2	1	1	1	2	49	1	49	54	8	54	2	21	18.1	98.3	
17-Oct-07	94	0	0	2	1	9	3	A	25	13	8	3	5	4	6	3	3	5	17	37	30	14	1	46	14.3	94.0	
18-Oct-07	1	2	1	1	1	18	A	230	23	35	11	16	3	3	2	13	2	1	79	52	1	41	40	72	28.2	229.9	
19-Oct-07	1	1	1	1	1	A	1	29	40	2	67	65	2	2	64	28	6	44	1	63	2	14	35	2	20.4	67.0	
20-Oct-07	59	51	2	52	A	2	4	4	6	8	7	2	3	2	2	2	2	2	3	2	2	2	50	33	13.0	59.0	
21-Oct-07	58	151	21	A	2	52	71	110	4	50	35	52	2	2	3	3	12	4	28	21	28	1	1	1	31.0	151.5	
22-Oct-07	37	0	A	1	28	9	2	2	5	3	2	18	14	3	3	10	2	5	1	2	7	1	3	3	7.1	36.7	
23-Oct-07	2	A	5	1	3	5	19	23	36	22	78	19	8	4	3	53	4	3	3	2	5	2	81	6	16.9	81.5	
24-Oct-07	A	53	25	64	2	26	12	60	13	3	3	10	2	1	2	70	2	46	46	100	99	1	1	A	29.2	100.5	
25-Oct-07	1	1	1	1	1	1	5	2	2	7	5	2	2	3	2	2	1	1	1	2	22	6	A	3	3.1	22.2	
26-Oct-07	3	4	1	19	26	32	59	89	20	9	6	13	2	2	2	1	1	2	2	1	4	A	1	1	13.1	88.6	
27-Oct-07	4	2	8	6	130	14	14	56	49	38	28	30	2	30	78	1	21	1	17	51	A	3	2	2	25.6	130.1	
28-Oct-07	3	105	30	119	1	2	2	2	43	21	3	17	2	19	4	2	1	7	1	A	2	53	1	47	21.2	119.2	
29-Oct-07	1	22	1	1	1	15	27	97	49	22	C	C	C	C	A	82	4	4	2	3	2	2	0	1	17.6	96.6	
30-Oct-07	5	9	A	1	2	1	3	2	4	5	18	3	4	4	4	73	2	16	12	7	88	28	80	1	16.3	87.9	
31-Oct-07	1	3	A	2	68	2	8	5	A	A	28	31	52	45	3	3	20	15	3	36	2	1	41	1	17.7	67.7	
Hourly Avg	19.2	20.2	17.6	18.2	21.5	16.1	20.6	42.9	26.0	15.3	15.2	18.1	8.0	6.3	10.1	13.9	8.8	7.5	14.1	24.7	14.4	18.9	27.3	15.6			
Hourly Max	94.0	151.5	157.4	119.2	130.1	52.3	114.3	229.9	125.7	50.2	78.4	65.0	52.5	45.4	77.9	81.9	49.1	46.1	79.0	100.5	98.7	106.0	135.7	72.5			



Station: Crescent Heights
 Station Owner: PAS

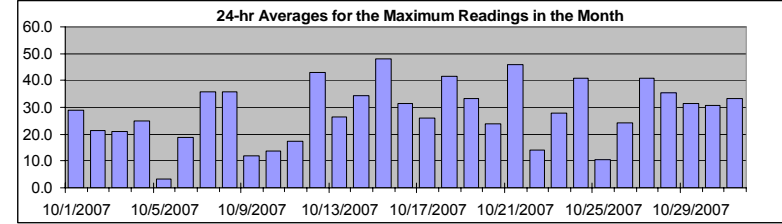
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	250.0	ppb	18-Oct	7:00 8:00
Maximum 24-hr Value:	48.1	ppb	15-Oct	



AIC Time:	35 hrs	Operational Time:	705 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	142.9	99.1	42.9	13.8	4.2	0.0	0.0	28.2 ppb	13.8 ppb

Status Flag Characters

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

Day Mountain Standard Time

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum
1-Oct-07	Hour End	A	3	27	6	88	18	16	13	93	3	68	5	35	1	82	12	55	55	3	6	4	45	0	A	29.0	93.1	
2-Oct-07		6	0	0	3	53	33	11	12	20	3	2	5	48	1	1	3	11	2	58	114	2	1	A	104	21.5	114.2	
3-Oct-07		0	0	32	4	14	13	23	42	23	35	3	61	2	5	5	2	5	4	16	14	11	A	152	19	21.1	152.2	
4-Oct-07		43	68	5	8	19	44	46	99	28	4	2	53	40	6	6	21	7	20	55	2	A	1	0	0	25.1	99.2	
5-Oct-07		0	0	0	0	0	0	31	28	5	1	5	0	0	0	0	0	0	0	0	A	1	1	0	0	3.2	30.8	
6-Oct-07		0	0	0	0	1	0	0	3	7	39	1	68	2	20	6	6	5	4	A	28	26	71	130	21	19.0	129.7	
7-Oct-07		57	12	157	9	102	62	78	3	3	1	0	52	0	0	0	35	0	A	2	84	3	103	48	13	35.8	156.7	
8-Oct-07		104	56	56	65	52	50	15	10	12	4	4	2	3	5	5	1	A	22	16	119	63	59	62	36	35.8	118.7	
9-Oct-07		28	25	37	34	26	46	54	24	0	0	0	0	0	0	0	A	1	0	0	0	0	0	0	0	12.0	54.1	
10-Oct-07		0	0	0	0	1	0	26	38	3	3	3	28	4	7	A	3	18	7	20	3	25	13	47	65	13.6	64.6	
11-Oct-07		40	0	48	54	0	14	29	11	14	10	8	8	7	A	11	6	9	8	8	24	21	17	49	3	17.4	54.3	
12-Oct-07		97	5	21	24	24	21	28	115	79	59	46	28	A	7	9	6	4	17	42	63	69	134	49	38	42.9	134.4	
13-Oct-07		24	30	26	28	21	23	35	80	70	35	26	A	9	7	4	4	12	13	27	28	15	31	43	14	26.2	79.8	
14-Oct-07		14	41	67	101	72	44	25	48	71	52	A	12	42	14	42	14	48	12	24	23	13	7	2	4	34.4	101.3	
15-Oct-07		4	67	59	76	75	77	143	142	149	A	67	23	0	0	2	3	55	12	70	5	10	9	28	29	48.1	149.2	
16-Oct-07		0	1	0	3	1	56	48	133	A	44	2	5	0	0	2	4	68	9	78	90	32	87	15	42	31.3	133.2	
17-Oct-07		127	3	0	4	3	22	12	A	34	27	18	7	11	8	12	8	18	22	38	57	48	35	14	70	26.0	127.1	
18-Oct-07		2	4	7	1	4	35	A	250	40	54	21	34	8	5	5	34	4	12	109	68	11	70	70	108	41.6	250.0	
19-Oct-07		10	0	1	2	2	A	9	56	56	7	99	92	2	2	95	56	24	70	2	83	8	28	57	6	33.4	99.5	
20-Oct-07		89	71	5	79	A	8	16	15	14	15	13	4	8	1	1	1	4	10	24	16	12	13	77	58	24.0	89.3	
21-Oct-07		88	183	43	A	15	70	87	129	7	67	47	76	4	5	10	6	36	25	54	44	44	5	3	3	45.7	182.7	
22-Oct-07		65	0	A	5	53	26	4	10	12	8	2	31	25	5	7	20	4	13	2	7	15	0	5	7	14.3	65.3	
23-Oct-07		5	A	16	3	14	15	32	37	51	34	97	32	15	7	8	81	16	19	14	14	12	8	98	13	27.8	98.5	
24-Oct-07		A	75	33	82	3	40	20	87	20	5	4	14	4	1	3	96	6	73	70	124	136	2	3	A	40.9	136.4	
25-Oct-07		2	0	1	1	2	9	25	12	7	17	12	5	6	6	3	3	2	5	7	17	47	30	A	19	10.4	46.7	
26-Oct-07		23	22	10	36	53	44	77	120	33	16	10	25	4	4	6	2	3	4	5	9	28	A	11	11	24.1	119.7	
27-Oct-07		23	15	25	24	159	35	35	90	71	50	39	47	2	39	104	3	39	6	27	85	A	7	5	5	40.7	158.7	
28-Oct-07		12	128	52	153	4	4	9	12	70	46	9	30	6	34	15	10	10	33	20	A	6	87	2	60	35.4	153.4	
29-Oct-07		2	37	2	3	3	29	52	130	69	43	C	C	C	C	A	110	13	14	7	18	23	24	14	6	31.4	130.0	
30-Oct-07		22	27	A	6	13	10	20	10	13	12	22	6	6	7	8	109	13	51	46	26	115	51	105	8	30.7	115.3	
31-Oct-07		6	17	A	13	87	12	25	20	A	A	52	49	82	76	12	14	51	30	12	54	9	7	63	5	33.2	87.2	
Hourly Avg		30.8	29.7	26.0	27.5	32.1	28.7	34.4	59.3	37.1	23.9	23.6	27.6	12.9	9.5	15.9	22.5	18.0	19.1	28.5	42.2	27.8	32.6	39.8	26.5			
Hourly Max		127.1	182.7	156.7	153.4	158.7	76.6	142.9	250.0	149.2	66.6	99.5	91.7	82.4	75.9	103.9	109.8	67.8	73.0	108.9	124.3	136.4	134.4	152.2	108.1			

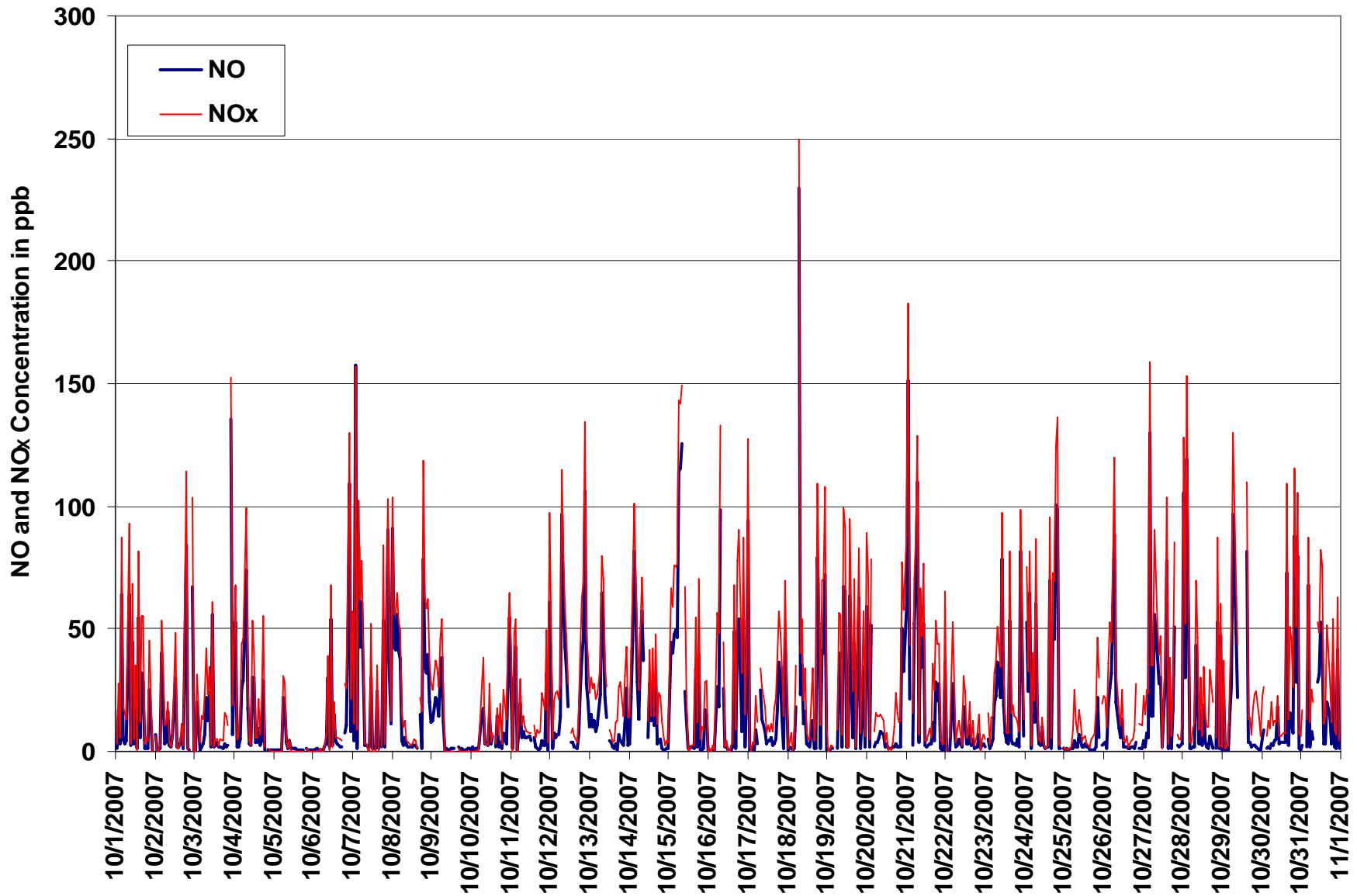


Figure 4. PAS - Crescent Heights Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend



PAS - Crescent Heights Ozone Monthly Summary

Station: Crescent Heights
Station Owner: PAS

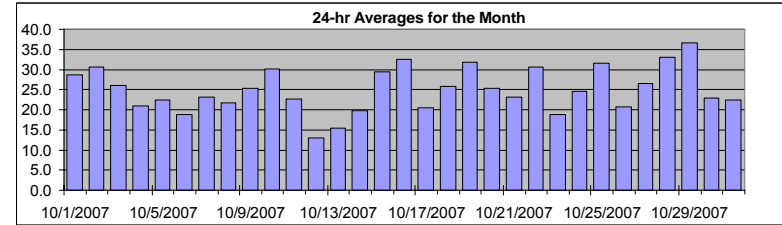
HOURLY AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: October 1, 2007 to November 1, 2007

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

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	45.5 ppb	16-Oct	13:00 14:00
Maximum 24-hr Average:	36.7 ppb	29-Oct	



AIC Time:	35 hrs	Operational Time:	707 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	43.6	40.5	34.2	26.8	16.8	3.6	1.3	25.0 ppb	26.8 ppb

Status Flag Characters

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

Day	Mountain Standard Time																							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-Oct-07	A	20	20	18	17	16	17	17	21	31	37	38	38	40	36	37	35	32	29	32	40	29	32	A		28.7	40.3
2-Oct-07	31	29	27	22	21	21	18	22	27	33	35	36	37	41	40	39	37	34	34	32	28	30	A	33		30.7	40.6
3-Oct-07	34	33	28	22	14	15	8	9	20	30	33	34	37	34	35	36	32	30	25	21	23	A	21	21		25.9	36.7
4-Oct-07	18	16	16	16	12	5	2	5	15	19	24	26	27	29	30	33	32	32	14	35	A	30	24	22		21.0	35.4
5-Oct-07	22	22	21	20	20	19	15	15	16	17	18	22	26	27	31	33	33	30	28	A	21	20	19	19		22.4	33.3
6-Oct-07	20	20	20	18	16	17	16	15	15	21	26	28	28	29	31	32	30	28	A	12	6	2	2	4		18.9	31.5
7-Oct-07	5	12	17	19	16	11	18	24	27	31	31	31	32	33	34	33	30	A	23	20	23	21	21	21		23.2	33.7
8-Oct-07	19	17	17	14	12	11	12	16	28	33	37	38	39	41	41	42	A	35	28	13	3	1	2	1		21.7	42.3
9-Oct-07	2	0	0	0	1	3	2	20	32	35	38	43	42	40	40	A	39	40	38	35	33	32	32	35		25.4	43.3
10-Oct-07	37	36	37	37	36	35	34	26	28	28	29	28	32	34	A	33	31	28	22	26	17	25	32	24		30.1	37.3
11-Oct-07	23	26	28	32	30	16	6	7	9	11	15	22	30	A	41	39	35	32	30	17	16	15	18	23		22.6	40.9
12-Oct-07	19	22	9	4	6	5	4	3	3	6	8	17	A	37	34	31	30	22	16	11	5	3	2	3		13.1	37.2
13-Oct-07	5	2	3	1	3	6	4	4	7	9	12	A	27	33	40	42	38	35	24	17	15	9	11	8		15.5	42.1
14-Oct-07	11	6	4	3	3	3	4	4	7	12	A	28	36	40	40	39	37	34	19	18	19	26	30	29		19.8	40.2
15-Oct-07	30	25	14	14	10	11	5	5	8	A	39	41	42	44	43	44	39	35	35	39	37	39	38	40		29.3	43.6
16-Oct-07	41	39	41	38	37	29	15	14	A	35	38	38	44	46	45	40	37	31	27	25	15	17	30	27		32.5	45.5
17-Oct-07	25	24	25	24	24	22	20	A	23	18	24	24	32	35	31	29	20	10	5	4	4	10	16	20		20.5	35.3
18-Oct-07	24	25	25	24	20	10	A	3	11	22	26	33	41	44	45	43	42	34	21	31	25	18	11	16		25.8	44.5
19-Oct-07	36	36	32	31	30	A	24	26	26	29	29	32	36	36	34	31	24	34	38	35	35	35	32	31		31.8	37.6
20-Oct-07	26	27	24	24	A	20	17	18	17	20	29	34	36	40	40	40	37	29	22	25	23	19	10	6		25.4	40.3
21-Oct-07	4	3	6	A	14	13	14	14	17	20	24	28	39	41	39	40	34	28	25	26	24	26	26	27		23.1	40.9
22-Oct-07	28	35	A	27	25	29	32	31	33	34	36	35	35	36	34	32	31	28	27	27	26	28	28	28		30.6	35.9
23-Oct-07	28	A	27	28	20	15	9	5	6	11	13	16	23	29	31	29	22	16	15	14	15	16	21	21		18.7	30.8
24-Oct-07	A	19	20	20	18	20	19	18	21	22	25	29	32	34	33	32	28	25	22	19	24	27	33	A		24.5	34.2
25-Oct-07	39	40	40	39	37	32	26	28	31	30	32	37	37	39	42	38	36	33	29	24	16	13	A	10		31.6	41.9
26-Oct-07	5	12	14	5	8	5	2	2	10	15	23	32	38	39	41	38	37	35	35	29	19	A	17	15		20.8	40.8
27-Oct-07	12	9	4	3	2	3	14	25	33	36	37	40	41	41	40	39	36	33	33	29	A	35	34	34		26.6	41.4
28-Oct-07	32	25	29	24	33	38	31	29	14	22	33	36	42	43	38	42	44	31	27	A	38	38	39	32		33.0	44.3
29-Oct-07	36	38	38	39	40	37	32	30	37	38	41	40	44	41	36	39	39	36	35	33	26	32	35	40		36.7	44.1
30-Oct-07	27	15	A	26	31	27	20	C	C	A	26	31	33	35	36	31	29	17	17	14	1	9	18	16		22.9	36.3
31-Oct-07	17	15	A	12	17	14	8	13	A	A	24	27	27	35	39	38	27	21	23	18	21	23	25	26		22.4	38.6
Hourly Avg	22.6	21.6	20.9	20.2	19.1	16.9	14.9	15.5	19.4	23.9	28.0	31.5	35.0	37.2	37.3	36.4	33.4	29.6	25.5	23.4	20.6	21.6	22.8	21.8			
Hourly Max	40.8	39.6	40.5	39.1	40.5	37.6	33.5	31.4	37.4	38.2	40.8	43.3	44.1	45.5	45.3	43.6	44.3	39.7	37.9	38.7	40.3	39.4	39.0	39.7			

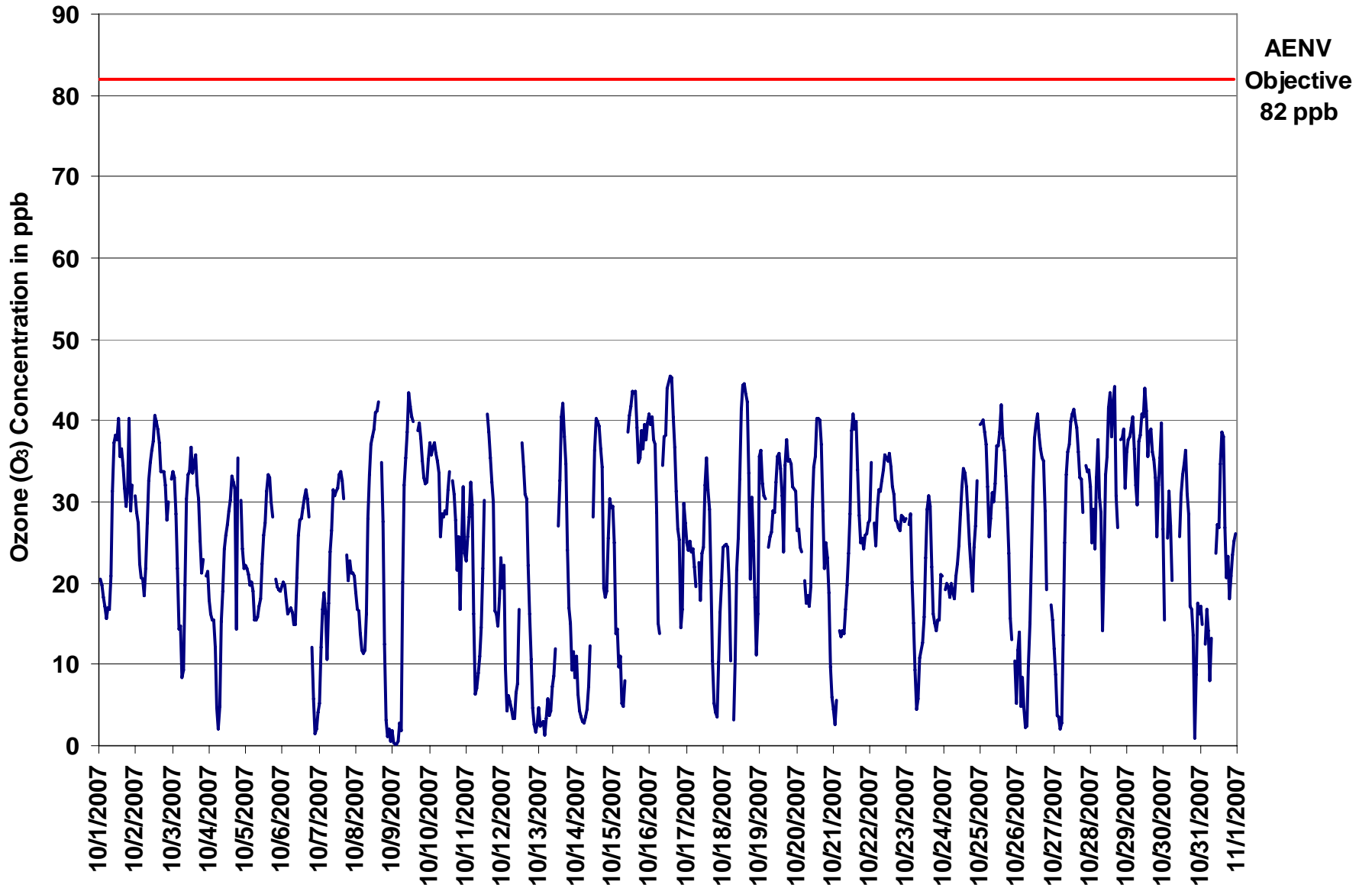


Figure 5. PAS - Crescent Heights Ozone 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

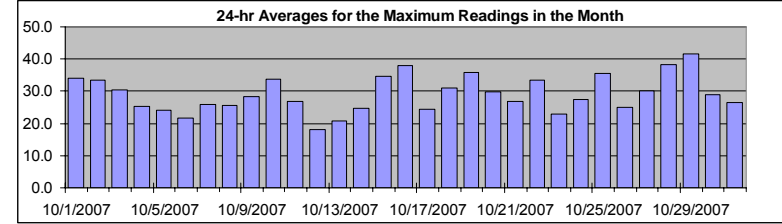
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	53.1	ppb	1-Oct	19:00 20:00
Maximum 24-hr Value:	41.6	ppb	29-Oct	



AIC Time:	35 hrs	Operational Time:	707 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	47.3	43.6	37.8	31.4	21.4	7.9	2.6	29.2 ppb	31.4 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

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum
1-Oct-07	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	34.1	53.1	
2-Oct-07	A	22	22	24	26	26	21	22	27	27	36	41	41	41	42	41	39	39	38	34	53	48	32	33	A	35	33.5	41.9
3-Oct-07	32	32	30	26	24	24	22	22	27	32	35	38	38	40	42	41	41	40	37	36	36	30	31	A	35	30.3	39.8	
4-Oct-07	35	35	32	25	19	18	14	21	27	35	36	40	38	37	39	38	37	34	30	30	27	A	25	25	25.3	38.8		
5-Oct-07	20	19	20	20	18	13	4	11	18	22	27	29	31	33	32	36	35	36	33	39	A	35	27	23	24.2	35.3		
6-Oct-07	23	23	22	21	21	20	18	17	17	19	21	26	28	31	34	35	34	32	30	A	24	21	20	20	21.8	35.1		
7-Oct-07	21	21	21	19	18	18	17	17	19	24	29	30	30	31	34	35	33	31	A	26	11	2	6	7	26.0	34.7		
8-Oct-07	9	19	20	24	20	15	23	26	32	34	33	33	33	35	35	35	33	A	25	23	24	24	23	22	25.7	44.4		
9-Oct-07	21	19	18	17	14	14	16	23	34	37	39	42	41	42	44	44	A	42	37	23	14	2	6	1	28.2	44.8		
10-Oct-07	5	1	2	0	4	6	11	30	35	37	43	45	43	42	41	A	40	41	40	41	35	34	35	38	33.7	39.4		
11-Oct-07	39	37	38	38	38	36	36	34	31	31	32	32	36	35	A	36	34	31	29	28	26	29	38	31	26.9	43.0		
12-Oct-07	24	29	31	36	34	26	8	8	10	13	17	29	36	A	43	43	42	36	33	29	20	19	25	26	18.1	40.3		
13-Oct-07	25	25	20	7	11	10	10	5	5	10	12	25	A	40	38	35	33	28	21	21	14	7	3	11	20.7	47.8		
14-Oct-07	11	6	8	2	10	13	9	7	13	16	16	A	32	38	45	48	42	43	35	21	18	15	15	12	24.7	52.9		
15-Oct-07	19	18	9	8	7	6	8	10	10	18	A	36	40	42	42	41	53	37	27	23	23	30	33	32	34.7	45.5		
16-Oct-07	32	32	21	23	18	18	16	7	31	A	42	42	44	45	45	45	45	40	41	42	42	43	42	42	37.8	47.7		
17-Oct-07	42	41	42	40	39	37	24	23	A	38	41	43	45	47	48	44	41	36	37	34	28	34	35	32	24.5	38.1		
18-Oct-07	28	25	27	27	30	26	26	A	26	21	29	29	36	38	34	32	27	12	10	7	8	18	21	26	31.0	47.3		
19-Oct-07	26	26	27	27	23	19	A	5	15	29	29	39	46	47	47	46	46	40	33	35	29	30	22	29	35.9	41.2		
20-Oct-07	38	38	34	32	32	A	29	29	32	32	33	36	37	38	41	39	35	39	40	39	41	40	36	36	30.0	41.7		
21-Oct-07	36	30	27	28	A	24	25	25	22	22	35	37	40	42	42	42	40	34	30	28	25	22	18	16	26.8	44.4		
22-Oct-07	11	5	11	A	18	16	18	16	19	22	28	32	44	44	43	43	42	32	31	28	27	30	29	29	26.8	44.4		
23-Oct-07	35	36	A	33	33	33	33	34	35	36	38	38	38	38	37	35	33	31	29	29	29	29	30	29	33.4	38.4		
24-Oct-07	29	A	30	29	28	21	15	12	9	14	15	21	25	34	33	33	28	22	21	19	17	21	23	24	22.8	33.7		
25-Oct-07	A	22	22	22	20	22	21	22	22	24	26	31	35	35	35	34	32	28	29	24	28	28	38	A	27.3	38.3		
26-Oct-07	42	42	42	41	39	36	35	34	34	34	38	39	39	41	44	41	39	36	32	32	22	18	A	17	35.4	44.3		
27-Oct-07	11	17	19	17	12	9	5	5	16	19	27	35	42	44	43	40	39	38	38	33	29	A	20	19	25.1	43.7		
28-Oct-07	16	15	6	7	7	8	23	33	37	37	39	43	42	43	42	41	41	37	37	33	A	37	36	36	30.2	43.4		
29-Oct-07	36	33	35	36	37	40	37	32	29	30	35	38	47	46	44	47	47	41	33	A	40	41	41	37	38.3	46.8		
30-Oct-07	39	41	40	42	42	40	37	37	43	44	44	48	49	46	47	42	43	39	39	40	37	38	38	43	41.6	48.7		
31-Oct-07	42	23	A	35	39	32	24	C	C	A	30	34	36	37	39	38	34	28	26	22	5	16	20	19	28.9	41.9		
Hourly Avg	18	20	A	15	21	19	14	18	A	A	27	29	34	41	42	42	34	28	26	21	25	26	28	27	26.5	42.5		
Hourly Max	26.4	25.1	24.1	24.0	23.4	21.5	20.0	20.3	24.3	27.5	31.3	35.3	38.2	39.9	40.5	39.7	38.1	34.3	31.3	29.6	25.7	26.0	26.4	25.6				
Hourly Min	41.9	42.0	42.1	41.9	41.6	40.1	37.4	37.4	43.0	44.1	44.3	48.0	48.7	47.3	47.7	47.8	52.9	43.0	41.2	53.1	48.3	43.0	42.0	43.0				

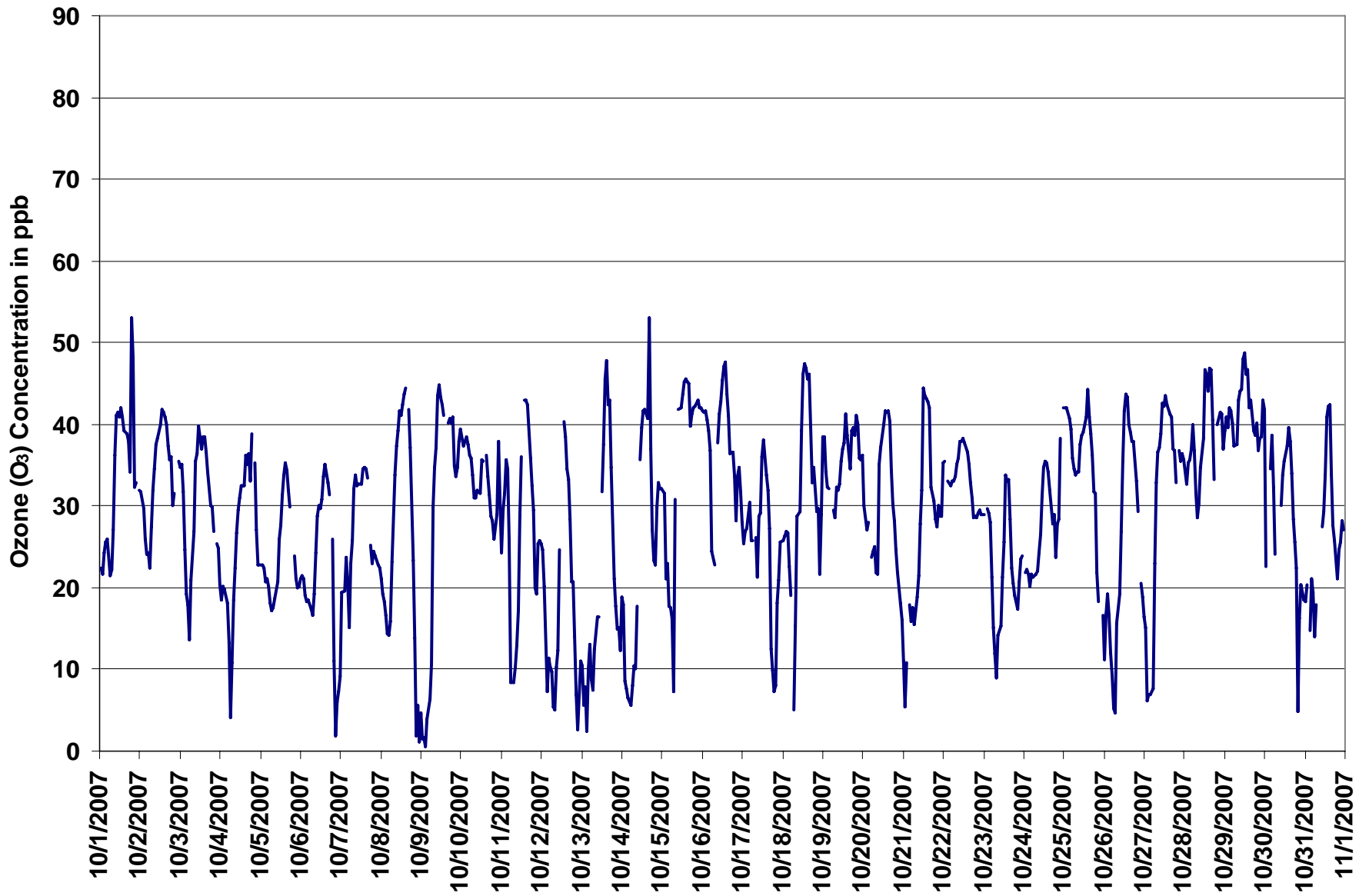
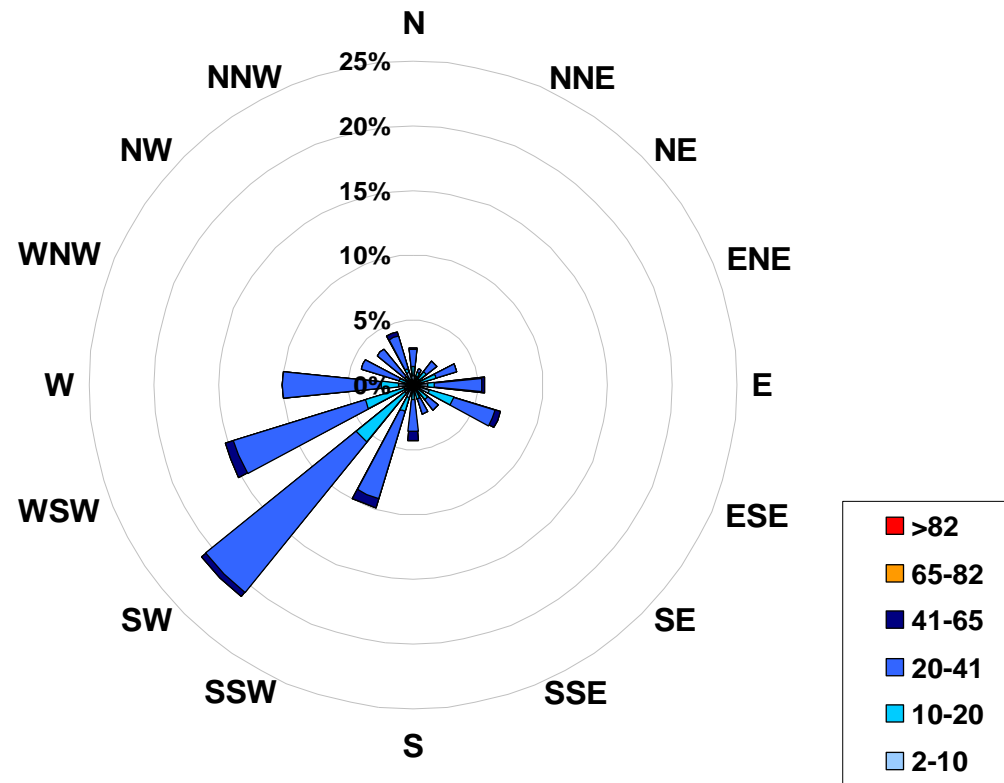


Figure 6. PAS - Crescent Heights Ozone Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of O ₃ in ppb			
Range		Frequency (hrs)	
2.0	< 10	88	
10	to 20	144	
20	to 41	450	
41	to 65	25	
65	to 82	0	
	> 82	0	
Total Non-Zero Values		707	



PAS - Crescent Heights Ozone Eight Hour Average Summary

Station: Crescent Heights
 Station Owner: PAS

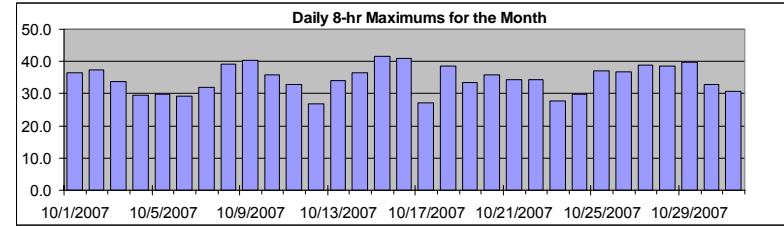
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: October 1, 2007 to November 1, 2007

Objective Limit: Alberta Environment: 8-hr 65 ppb

Number of 8-hr Exceedances:		0	
Maximum 8-hr Average:	41.5 ppb	15-Oct	16:00 17:00



Percentile							
99	95	75	50	25	5	1	
40.0	37.8	32.0	26.6	18.9	7.7	3.2	

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																							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-Oct-07	32	30	27	25	23	21	19	18	18	20	22	24	27	30	32	35	36	36	35	35	35	34	33	33		36.4	
2-Oct-07	32	32	31	30	27	26	24	24	23	24	25	27	29	31	34	36	37	37	37	37	35	34	33	32		37.4	
3-Oct-07	32	32	31	30	28	26	23	20	19	18	19	21	23	26	29	32	34	34	33	31	30	29	27	25		33.8	
4-Oct-07	23	21	19	19	17	16	13	11	11	11	12	14	15	18	22	25	28	29	28	29	29	30	29	27		29.6	
5-Oct-07	26	24	25	23	23	21	20	19	19	18	18	18	19	20	22	24	26	28	29	30	29	28	26	24		29.9	
6-Oct-07	22	21	20	19	19	19	18	18	17	17	18	19	21	22	24	26	28	29	29	27	24	20	16	12		29.4	
7-Oct-07	8	6	7	8	10	11	13	15	18	20	22	24	25	28	30	31	32	32	31	29	28	26	25	23		32.0	
8-Oct-07	21	21	20	19	18	16	15	15	16	18	20	23	27	31	34	37	39	39	38	34	29	23	18	12		39.1	
9-Oct-07	10	6	3	1	1	1	1	3	7	12	16	22	27	32	36	39	40	40	40	39	38	37	36	36		40.4	
10-Oct-07	35	35	35	35	35	36	36	35	34	33	32	31	30	30	29	30	31	31	30	29	27	26	26	25		35.8	
11-Oct-07	24	24	25	26	27	26	23	21	19	17	16	14	14	14	19	24	27	31	33	32	30	28	25	23		32.8	
12-Oct-07	21	20	17	16	15	14	12	9	7	5	5	7	7	11	16	20	23	26	27	26	23	19	15	11		26.8	
13-Oct-07	8	6	4	3	3	3	3	4	4	5	6	6	10	14	19	24	29	32	34	32	30	28	24	20		34.1	
14-Oct-07	16	13	10	9	7	6	5	5	4	5	5	9	14	19	24	29	33	36	34	33	31	29	28	27		36.4	
15-Oct-07	26	25	24	23	22	20	17	14	11	10	13	17	21	26	32	37	42	41	40	40	39	39	38	38		41.5	
16-Oct-07	38	38	39	39	39	38	35	32	30	30	29	29	30	33	37	41	40	40	38	37	33	30	28	26		40.9	
17-Oct-07	25	24	24	23	25	25	24	23	23	22	22	23	25	27	27	27	27	26	24	21	17	14	12	11		27.0	
18-Oct-07	12	14	16	19	21	21	21	19	17	16	17	18	21	26	28	33	37	38	38	38	36	32	28	25		38.5	
19-Oct-07	24	24	26	26	26	28	29	31	29	28	28	28	29	30	31	32	31	32	33	33	33	33	33	33		33.4	
20-Oct-07	33	32	31	29	28	26	24	23	21	20	21	22	24	27	29	32	35	36	35	34	32	29	26	21		35.7	
21-Oct-07	17	14	12	10	9	8	9	10	11	14	17	18	21	25	28	31	33	34	34	34	32	30	29	27		34.3	
22-Oct-07	26	27	27	28	28	28	29	30	30	31	32	33	34	34	34	34	34	33	32	31	30	29	28	28		34.3	
23-Oct-07	28	28	28	28	27	25	22	19	16	15	13	12	12	14	17	20	22	22	23	22	22	20	19	18		27.7	
24-Oct-07	17	17	18	19	19	20	20	19	19	20	20	21	23	25	27	28	29	30	29	28	27	26	26	25		29.7	
25-Oct-07	27	29	32	35	36	37	36	35	34	33	32	32	32	32	34	36	36	37	36	35	32	29	27	23		37.0	
26-Oct-07	19	16	13	11	10	8	8	7	7	8	9	12	16	20	25	30	33	35	37	37	34	33	30	27		36.9	
27-Oct-07	23	20	15	11	9	8	8	9	12	15	19	24	29	33	37	38	39	38	38	37	36	35	34	33		38.8	
28-Oct-07	33	32	31	30	31	31	31	30	28	27	28	29	30	31	32	34	38	39	38	38	38	37	37	35		38.6	
29-Oct-07	34	35	37	37	38	37	36	36	36	36	37	37	37	38	38	40	40	39	39	38	36	34	34	34		39.7	
30-Oct-07	33	30	30	29	29	29	27	N	N	N	N	N	N	N	N	N	N	31	30	29	26	22	19	15		32.9	
31-Oct-07	13	13	13	13	15	16	14	14	N	N	N	N	N	N	N	N	N	31	30	30	28	28	26	23		30.8	
Hourly Max	37.9	38.4	39.1	39.0	39.0	37.7	36.5	36.2	36.4	36.4	36.8	36.9	37.4	37.9	38.4	40.9	41.5	40.7	40.3	40.0	39.4	38.9	38.1	37.7			



PAS - Crescent Heights Carbon Monoxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

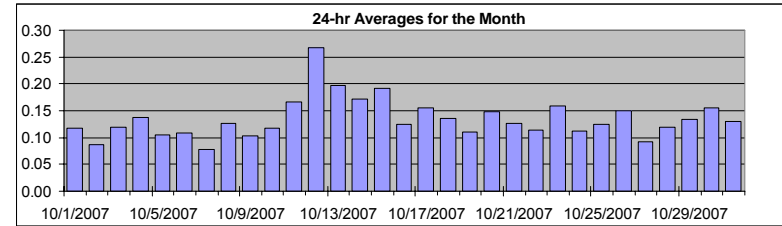
HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

Monitoring Dates: October 1, 2007 to November 1, 2007

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

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	1.0	ppm	12-Oct	21:00 22:00
Maximum 24-hr Value:	0.3	ppm	12-Oct	



AIC Time:	35 hrs		Operational Time:	706 hrs					
Calibration Time:	3 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.1 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	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-Oct-07	A	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.12	0.17
2-Oct-07	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	A	0.0	0.09	0.16
3-Oct-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	A	0.1	0.1	0.12	0.27	
4-Oct-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.1	A	0.1	0.1	0.14	0.44	
5-Oct-07	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	A	0.1	0.1	0.1	0.1	0.10	0.15	
6-Oct-07	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	A	0.2	0.1	0.4	0.2	0.1	0.11	0.36	
7-Oct-07	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	A	0.1	0.1	0.1	0.1	0.1	0.1	0.08	0.10	
8-Oct-07	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	A	0.1	0.1	0.2	0.3	0.4	0.2	0.2	0.13	0.40
9-Oct-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.1	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	0.10	0.40	
10-Oct-07	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	A	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.12	0.16	
11-Oct-07	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.17	0.23	
12-Oct-07	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.6	0.4	0.4	0.2	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	1.0	0.3	0.3	0.27	1.01	
13-Oct-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.2	0.2	A	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.3	0.2	0.1	0.20	0.38	
14-Oct-07	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	A	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.17	0.33	
15-Oct-07	0.1	0.1	0.1	0.1	0.2	0.2	0.8	0.9	0.7	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	0.1	0.1	0.19	0.92	
16-Oct-07	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.12	0.29	
17-Oct-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	A	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.15	0.28	
18-Oct-07	0.1	0.1	0.1	0.1	0.1	0.1	A	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.14	0.47	
19-Oct-07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.11	0.15	
20-Oct-07	0.1	0.1	0.1	0.1	A	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.15	0.23	
21-Oct-07	0.2	0.2	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	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.13	0.24	
22-Oct-07	0.1	0.1	A	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	0.1	0.11	0.15	
23-Oct-07	0.1	A	0.1	0.1	0.1	0.1	0.2	0.4	0.3	0.2	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.16	0.42	
24-Oct-07	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	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	A	0.11	0.15	
25-Oct-07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.12	0.18	
26-Oct-07	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.2	A	0.1	0.1	0.15	0.43	
27-Oct-07	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	A	0.1	0.1	0.0	0.09	0.15	
28-Oct-07	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	A	0.1	0.1	0.1	0.1	0.12	0.28	
29-Oct-07	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	C	C	C	A	0.1	0.1	0.1	0.1	0.1	0.13	0.20	
30-Oct-07	0.1	0.1	A	0.1	0.1	0.1	0.3	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	0.3	0.1	0.1	0.16	0.26	
31-Oct-07	0.1	0.1	A	0.1	0.1	0.1	0.2	0.2	A	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.13	0.20	
Hourly Avg	0.10	0.10	0.10	0.11	0.11	0.13	0.19	0.24	0.19	0.14	0.13	0.12	0.11	0.10	0.11	0.11	0.13	0.15	0.16	0.15	0.16	0.17	0.12	0.11			
Hourly Max	0.22	0.24	0.19	0.26	0.19	0.23	0.77	0.92	0.74	0.36	0.36	0.27	0.19	0.15	0.19	0.17	0.19	0.23	0.42	0.34	0.48	1.01	0.34	0.29			

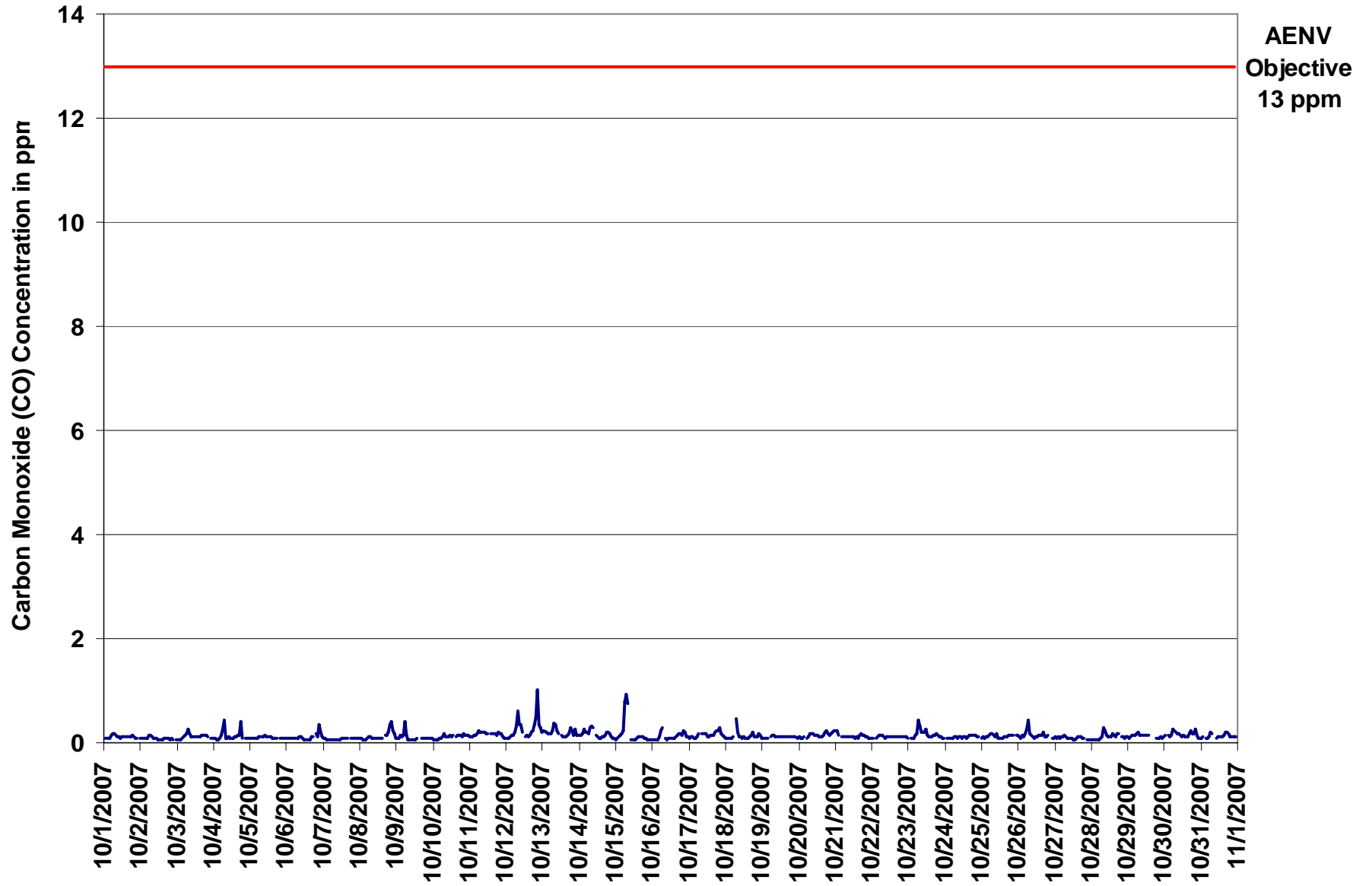


Figure 7. PAS - Crescent Heights Carbon Monoxide 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

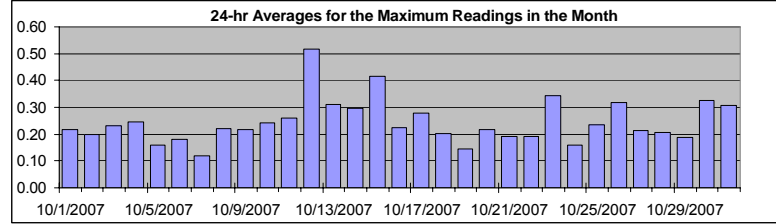
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	2.9	ppm	12-Oct	21:00 22:00
Maximum 24-hr Value:	0.5	ppm	12-Oct	



AIC Time:	35 hrs	Operational Time:	706 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.2	0.6	0.2	0.2	0.1	0.1	0.1	0.2 ppm	0.2 ppm

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Oct-07	A	0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.2	0.2	0.1	0.5	0.1	0.4	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.4	0.1	0.1	A	0.22	0.55
2-Oct-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.7	0.8	0.1	0.3	0.2	0.1	0.2	0.1	0.2	0.1	0.3	0.1	0.1	0.1	A	0.1	0.20	0.77	
3-Oct-07	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.9	0.4	0.1	0.2	0.2	0.6	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.1	A	0.1	0.23	0.94	
4-Oct-07	0.1	0.3	0.1	0.1	0.2	0.3	0.4	0.6	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.9	0.1	A	0.1	0.1	0.1	0.25	0.94	
5-Oct-07	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.7	0.2	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.16	0.69	
6-Oct-07	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	0.1	0.1	0.2	0.1	0.2	A	0.3	0.4	0.5	0.3	0.2	0.18	0.55	
7-Oct-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.12	0.19	
8-Oct-07	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	A	0.2	0.2	0.4	1.0	0.7	0.4	0.2	0.22	1.03
9-Oct-07	0.1	0.1	0.3	0.3	0.1	1.1	1.0	0.3	0.1	0.1	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	0.22	1.14	
10-Oct-07	0.1	0.1	0.1	0.1	0.1	0.1	1.2	0.4	0.2	0.2	0.1	0.1	0.3	0.4	A	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.24	1.18	
11-Oct-07	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.4	0.3	0.3	0.4	0.2	0.5	A	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.1	0.1	0.26	0.50	
12-Oct-07	0.1	0.2	0.1	0.1	0.2	0.2	0.4	0.7	0.8	0.5	0.5	0.3	A	0.3	0.3	0.2	0.4	0.4	0.4	0.8	1.1	2.9	0.7	0.4	0.52	2.88	
13-Oct-07	0.3	0.4	0.3	0.2	0.3	0.3	0.4	0.9	0.5	0.3	0.2	A	0.1	0.1	0.2	0.2	0.2	0.3	0.5	0.4	0.3	0.5	0.2	0.2	0.31	0.86	
14-Oct-07	0.2	0.2	0.3	0.4	1.2	0.3	0.3	0.4	0.4	0.3	A	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.2	0.2	0.1	0.1	0.30	1.23	
15-Oct-07	0.1	0.2	0.2	0.5	0.3	0.6	2.3	2.4	1.2	A	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	0.42	2.38	
16-Oct-07	0.1	0.1	0.1	0.1	0.1	0.3	0.5	0.5	A	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.4	0.2	0.5	0.5	0.4	0.2	0.22	0.50	
17-Oct-07	0.1	0.1	0.1	0.1	0.1	0.2	0.3	A	0.2	0.2	1.0	0.8	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.6	0.2	0.2	0.2	0.28	1.05	
18-Oct-07	0.1	0.1	0.1	0.1	0.1	0.3	A	0.7	0.3	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.3	0.4	0.2	0.2	0.2	0.1	0.1	0.20	0.70	
19-Oct-07	0.1	0.1	0.1	0.1	0.1	A	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	0.1	0.1	0.1	0.1	0.1	0.14	0.20	
20-Oct-07	0.4	0.1	0.1	0.1	A	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.22	0.39	
21-Oct-07	0.2	0.3	0.2	A	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.2	0.2	0.2	0.3	0.1	0.1	0.1	0.19	0.39	
22-Oct-07	0.1	0.1	A	0.1	0.1	0.4	0.3	0.4	0.2	0.2	0.6	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	0.19	0.59	
23-Oct-07	0.1	A	0.1	0.1	0.1	0.2	0.4	2.5	0.8	0.3	0.2	0.3	0.2	0.1	0.2	0.2	0.3	0.3	0.5	0.2	0.1	0.1	0.1	0.1	0.34	2.51	
24-Oct-07	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	A	0.16	0.35	
25-Oct-07	0.1	0.1	0.2	0.1	0.1	0.2	0.4	0.2	0.2	0.1	1.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	A	0.4	0.23	1.09
26-Oct-07	0.2	0.2	0.1	0.2	0.2	0.4	0.7	1.9	0.3	0.2	0.1	0.3	0.1	0.3	0.2	0.2	0.2	0.4	0.2	0.2	0.2	A	0.1	0.1	0.32	1.92	
27-Oct-07	0.1	0.1	0.1	0.1	0.6	0.6	0.7	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	A	0.4	0.2	0.0	0.21	0.71	
28-Oct-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.9	0.4	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.4	0.3	A	0.1	0.2	0.1	0.1	0.21	0.93	
29-Oct-07	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	C	C	C	A	0.1	0.1	0.1	0.2	0.1	0.19	0.34
30-Oct-07	0.1	0.1	A	0.2	0.2	1.1	0.3	0.3	0.2	0.6	0.2	0.7	0.4	0.2	0.1	0.3	0.4	0.4	0.3	0.4	0.3	0.1	0.1	0.1	0.32	1.12	
31-Oct-07	0.1	0.1	A	0.1	0.1	0.2	0.3	0.2	A	A	0.1	0.2	0.2	0.4	0.2	0.6	0.4	0.5	1.8	0.2	0.2	0.2	0.2	0.2	0.31	1.79	
Hourly Avg	0.14	0.16	0.14	0.15	0.19	0.26	0.46	0.56	0.35	0.21	0.30	0.20	0.21	0.18	0.17	0.18	0.21	0.25	0.34	0.24	0.29	0.32	0.19	0.15			
Hourly Max	0.39	0.39	0.35	0.55	1.23	1.14	2.30	2.51	1.25	0.52	1.09	0.83	0.69	0.43	0.33	0.58	0.44	0.45	1.79	0.81	1.06	2.88	0.66	0.41			

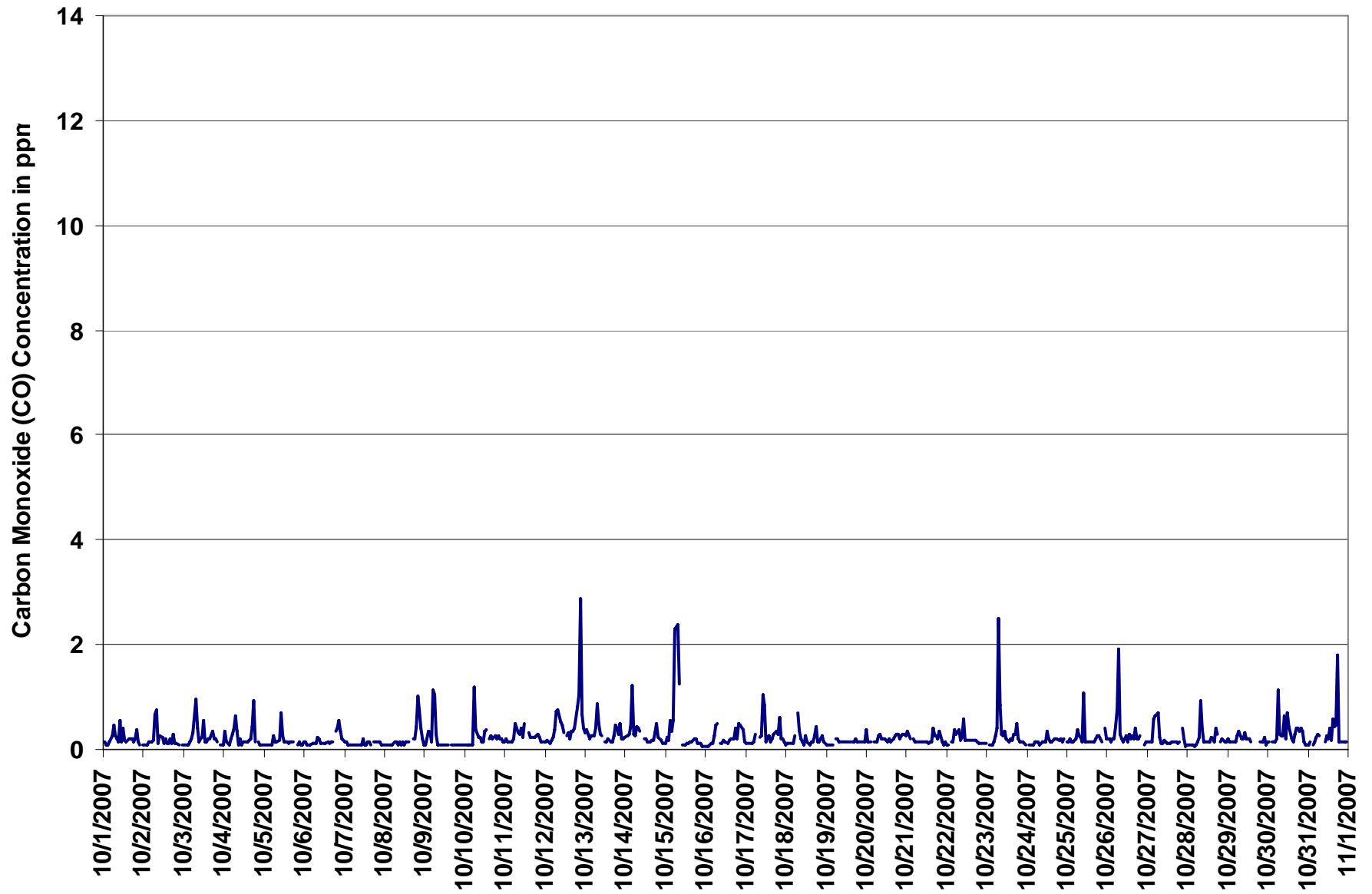
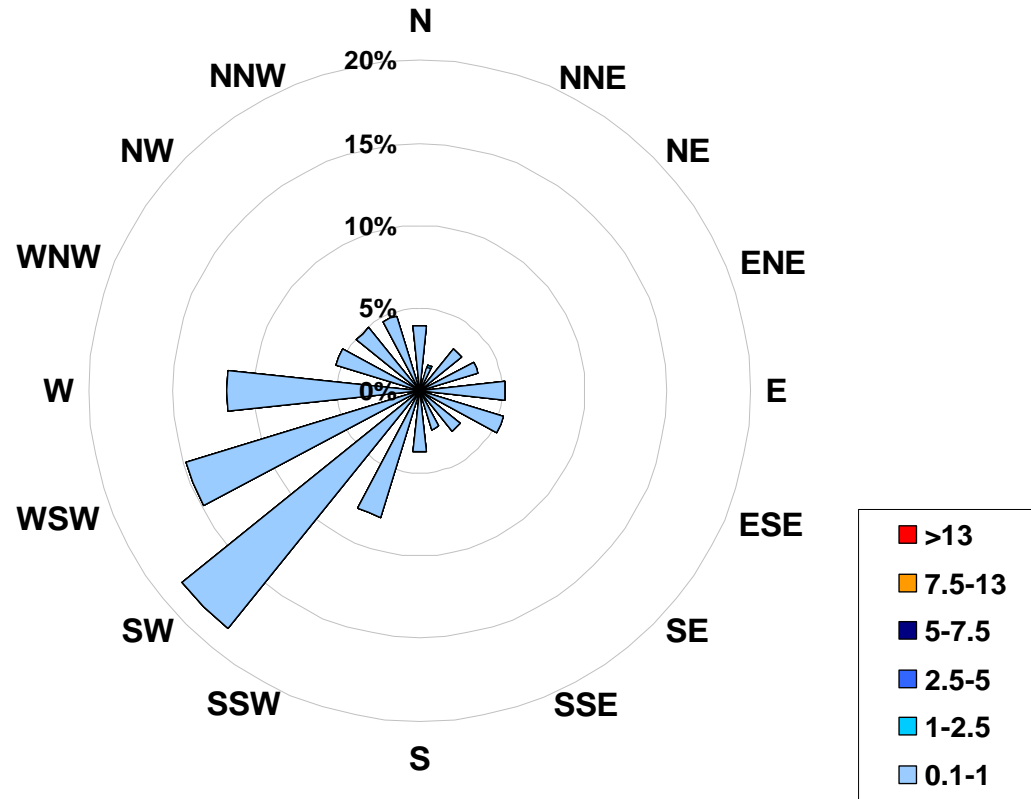


Figure 8. PAS - Crescent Heights Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of CO in ppm Range			Frequency (hrs)
0.1	<	1	705
1	to	2.5	1
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
	>	13	0
Total Non-Zero Values			706



PAS - Crescent Heights Carbon Monoxide Eight Hour Average Summary

Station: Crescent Heights
 Station Owner: PAS

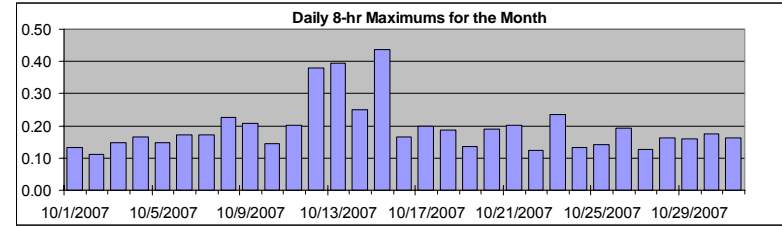
EIGHT HOUR RUNNING AVERAGE TABLE

Carbon Monoxide (CO)

Monitoring Dates: October 1, 2007 to November 1, 2007

Objective Limit: Alberta Environment: 8-hr 5 ppm

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	0.4 ppm 15-Oct 9:00 10:00



Percentile	99	95	75	50	25	5	1
	0.4	0.2	0.2	0.1	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	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Oct-07		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	0.1	0.13
2-Oct-07		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	0.1	0.11
3-Oct-07		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	0.1	0.15
4-Oct-07		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17
5-Oct-07		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	0.1	0.15
6-Oct-07		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	0.2	0.17	
7-Oct-07		0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.17
8-Oct-07		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	0.2	0.2	0.2	0.23	
9-Oct-07		0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.21
10-Oct-07		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	0.1	0.15
11-Oct-07		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20
12-Oct-07		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.38	
13-Oct-07		0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.39	
14-Oct-07		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.25	
15-Oct-07		0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.44	
16-Oct-07		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	0.2	0.2	0.17	
17-Oct-07		0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	
18-Oct-07		0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.19	
19-Oct-07		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	0.14	
20-Oct-07		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	0.2	0.2	0.2	0.2	0.2	0.19	
21-Oct-07		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.20	
22-Oct-07		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	0.12	
23-Oct-07		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.23	
24-Oct-07		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	0.13	
25-Oct-07		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	0.14	
26-Oct-07		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.19	
27-Oct-07		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	0.13	
28-Oct-07		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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.16	
29-Oct-07		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	N	N	N	N	N	N	N	N	N	0.16	
30-Oct-07		N	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	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.18	
31-Oct-07		0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	N	N	N	N	N	N	N	N	N	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.16	
Hourly Max		0.39	0.39	0.39	0.37	0.33	0.22	0.21	0.31	0.39	0.44	0.43	0.42	0.41	0.38	0.30	0.27	0.21	0.18	0.17	0.19	0.22	0.34	0.36	0.38			



PAS - Crescent Heights Total Hydrocarbons Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

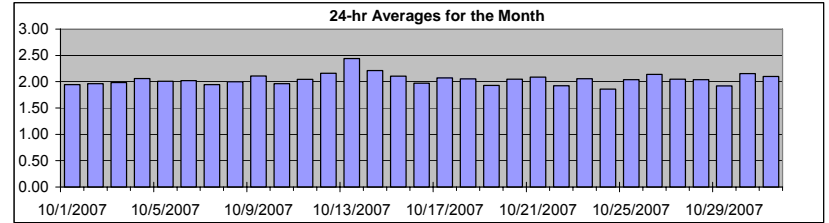
Total Hydrocarbons (THC)

Monitoring Dates: October 1, 2007 to November 1, 2007

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

Maximum 1-hr Average:	3.1	ppm	13-Oct	2:00 3:00
Maximum 24-hr Value:	2.4	ppm	13-Oct	

AIC Time:	31 hrs	Operational Time:	711 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.7	2.4	2.1	2.0	1.9	1.9	1.9	2.0 ppm	2.0 ppm



Status Flag Characters

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

Day	Mountain Standard Time																								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-Oct-07	A	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	A	1.95	1.99	
2-Oct-07	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.0	1.9	A	1.9	1.96	2.01	
3-Oct-07	1.9	1.9	1.9	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	1.98	2.12	
4-Oct-07	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.0	A	2.0	2.0	2.06	2.24	
5-Oct-07	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.01	2.07	
6-Oct-07	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	A	2.2	2.1	2.3	2.2	2.2	2.02	2.26	
7-Oct-07	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.94	2.10	
8-Oct-07	1.8	1.9	1.8	1.9	1.9	1.9	2.0	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	2.1	2.2	2.3	2.3	2.2	2.00	2.32	
9-Oct-07	2.2	2.4	2.4	2.5	2.5	2.3	2.6	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.11	2.57	
10-Oct-07	1.9	1.9	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	1.9	1.9	1.9	A	1.9	2.0	1.9	2.0	1.9	2.4	1.9	1.9	1.9	1.96	2.42	
11-Oct-07	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.1	2.1	2.2	2.2	2.1	2.1	A	2.0	2.0	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.0	2.05	2.23	
12-Oct-07	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.2	2.2	2.1	A	1.9	2.0	2.0	2.0	2.1	2.1	2.3	2.4	2.6	2.4	2.6	2.16	2.62	
13-Oct-07	2.7	2.9	3.1	2.8	2.7	2.6	2.7	2.9	2.7	2.5	2.4	A	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.3	2.2	2.2	2.2	2.2	2.44	3.10	
14-Oct-07	2.2	2.3	2.3	2.5	2.6	2.6	2.7	2.7	2.6	2.4	A	2.0	2.0	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.21	2.72	
15-Oct-07	2.0	2.0	2.2	2.4	2.5	2.4	2.6	2.6	2.5	A	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.11	2.65	
16-Oct-07	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.0	A	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.0	2.0	1.97	2.08	
17-Oct-07	2.0	2.0	2.0	2.0	1.9	2.0	2.0	A	1.9	2.0	2.0	2.0	1.9	2.0	2.1	2.1	2.2	2.3	2.3	2.4	2.2	2.2	2.1	2.1	2.07	2.36	
18-Oct-07	2.1	2.0	2.0	2.1	2.1	2.1	A	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.1	2.1	2.1	2.05	2.24	
19-Oct-07	2.0	2.0	2.0	2.0	2.0	A	1.9	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.93	2.00	
20-Oct-07	2.0	2.0	2.0	2.0	A	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.2	2.2	2.3	2.05	2.26	
21-Oct-07	2.2	2.3	2.2	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.09	2.26	
22-Oct-07	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.92	1.98	
23-Oct-07	1.9	A	1.9	1.9	2.0	2.2	2.2	2.3	2.3	2.3	2.3	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.06	2.34	
24-Oct-07	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.86	1.92	
25-Oct-07	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	A	2.2	2.04	2.20	
26-Oct-07	2.3	2.3	2.4	2.4	2.2	2.2	2.2	2.3	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	A	2.1	2.1	2.14	2.37	
27-Oct-07	2.1	2.2	2.1	2.2	2.2	2.4	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.05	2.36	
28-Oct-07	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.3	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	A	1.9	1.9	1.9	2.0	2.04	2.25	
29-Oct-07	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	C	C	A	2.1	2.0	1.9	1.9	1.9	2.0	1.92	2.05		
30-Oct-07	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.4	2.3	2.2	2.2	2.15	2.42	
31-Oct-07	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.10	2.25	
Hourly Avg	2.05	2.06	2.07	2.08	2.09	2.10	2.12	2.14	2.11	2.06	2.03	1.99	1.98	1.96	1.97	1.98	1.99	2.02	2.04	2.04	2.07	2.06	2.03	2.04			
Hourly Max	2.68	2.86	3.10	2.85	2.70	2.64	2.71	2.93	2.73	2.54	2.42	2.21	2.18	2.16	2.09	2.11	2.17	2.24	2.30	2.30	2.42	2.62	2.37	2.56			

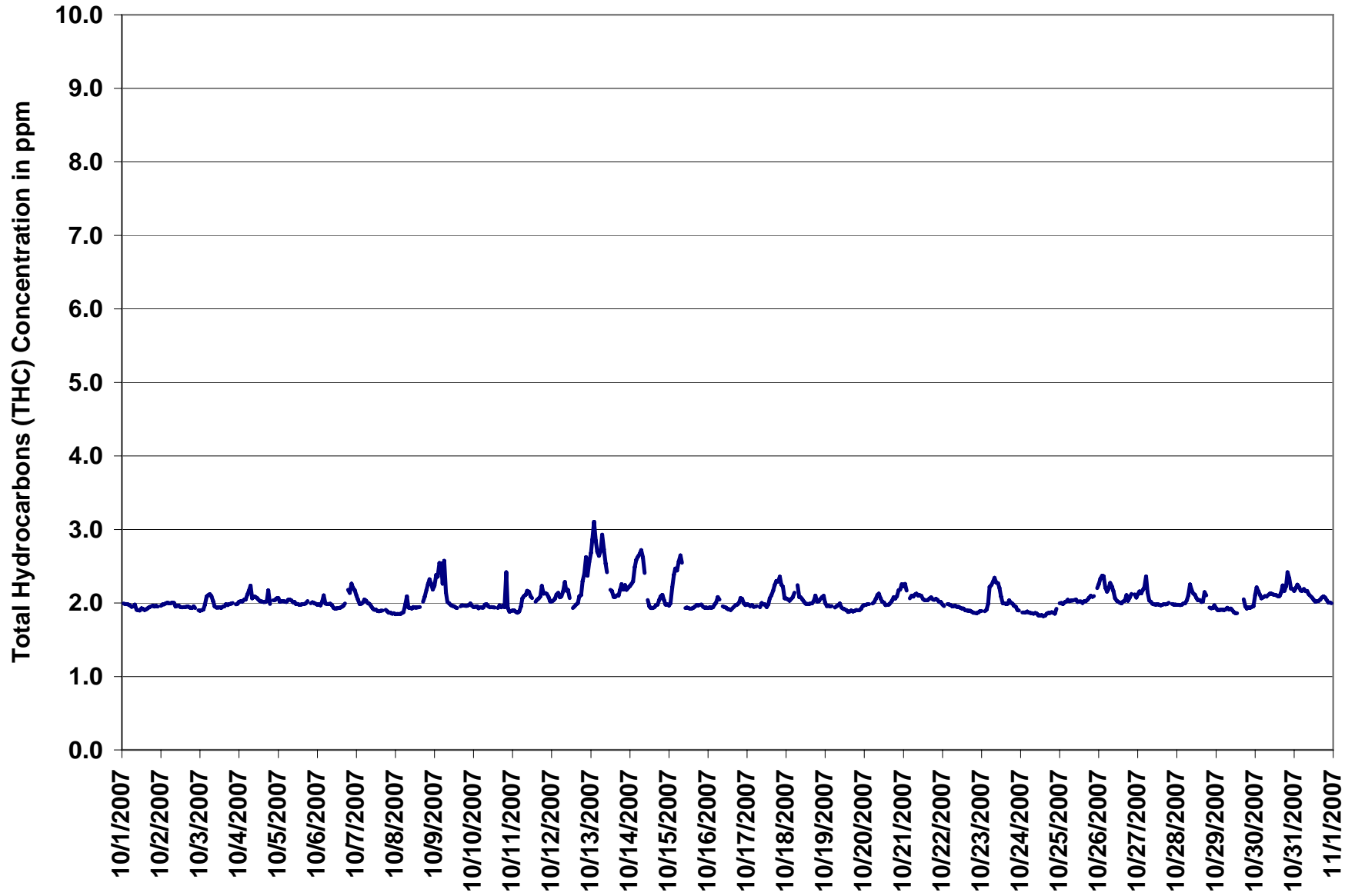


Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend

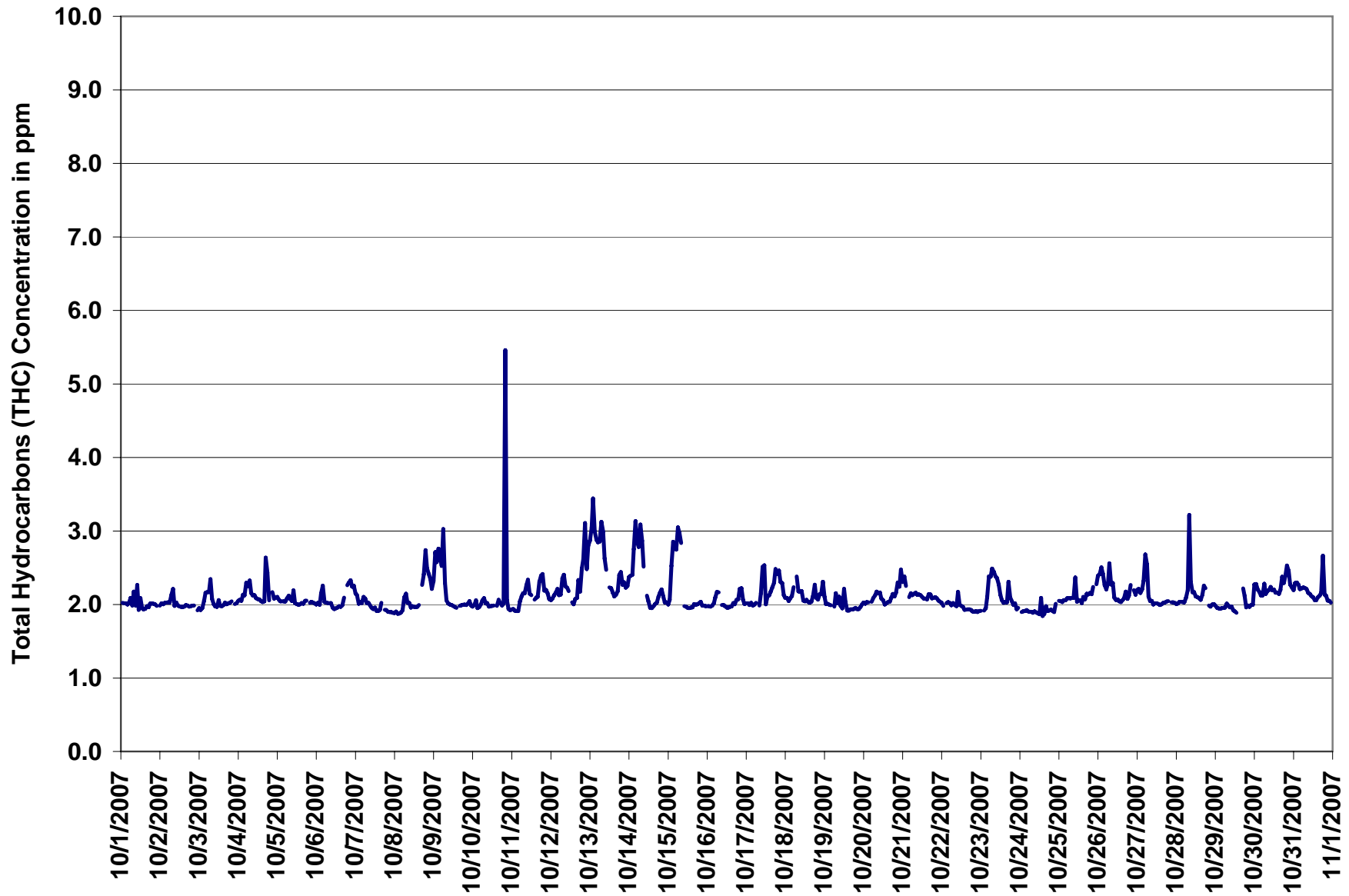
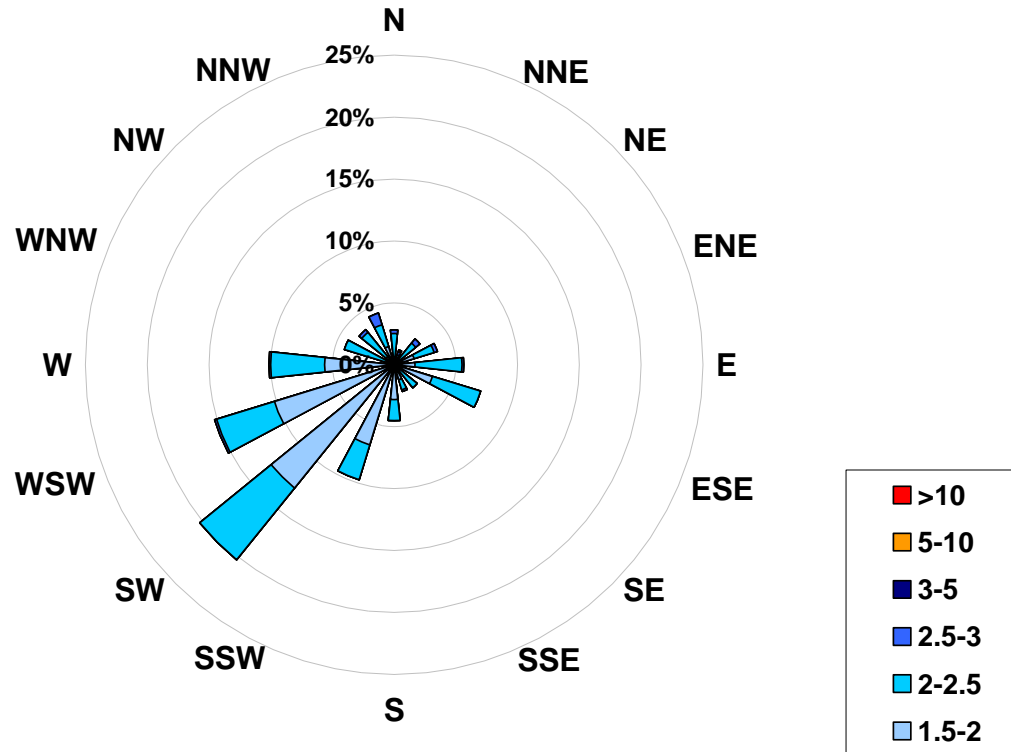


Figure 10. PAS - Crescent Heights Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of THC in ppm		Frequency (hrs)
Range		
1.5	< 2	361
2	to 2.5	327
2.5	to 3	22
3	to 5	1
5	to 10	0
	> 10	0
Total Non-Zero Values		711



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

Station: Crescent Heights
Station Owner: PAS

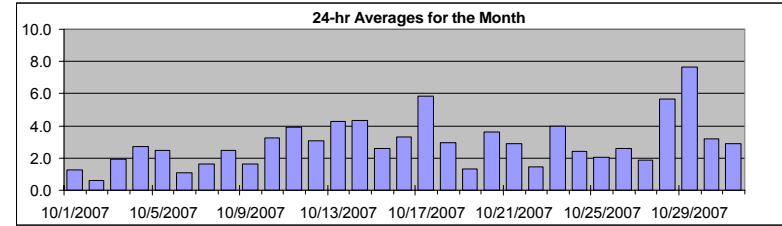
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2007 to November 1, 2007

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	13.9 µg/m ³ 30-Oct 1:00 2:00
Maximum 24-hr Value:	7.6 µg/m ³ 29-Oct



AIC Time:	0 hrs	Operational Time:	741 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	10.2	7.6	4.1	2.4	1.1	0.0	0.0	2.9 2 µg/m ³	2.6 µg/m ³

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
1-Oct-07	1	1	1	1	1	2	1	2	4	2	0	0	0	1	0	1	4	2	2	0	2	3	1	1	1.3	3.5
2-Oct-07	0	1	0	0	1	1	0	1	1	0	0	0	0	1	1	1	2	0	1	1	1	1	0	0	0.6	1.6
3-Oct-07	1	0	1	1	4	3	4	4	3	1	2	2	2	3	2	1	2	2	2	3	2	1	0	1	1.9	3.9
4-Oct-07	1	1	1	1	1	2	3	7	3	6	6	5	3	3	3	3	2	2	2	8	1	1	0	2	2.7	7.7
5-Oct-07	2	3	2	3	3	4	5	6	6	5	5	5	3	3	2	0	0	0	0	0	1	1	0	0	2.5	6.4
6-Oct-07	0	1	0	0	1	1	0	2	1	0	0	0	0	1	0	1	2	1	2	3	3	3	4	1	1.1	3.8
7-Oct-07	4	3	2	3	2	3	2	2	2	1	3	2	1	1	1	0	0	1	1	0	1	1	1	0	1.6	3.6
8-Oct-07	1	2	1	1	3	2	3	4	3	2	2	1	1	0	1	1	1	2	2	3	5	7	5	5	2.5	7.4
9-Oct-07	2	3	3	3	2	2	4	3	2	2	0	0	0	0	0	1	0	0	1	2	3	3	2	0	1.6	3.5
10-Oct-07	0	1	0	0	1	1	3	4	4	4	3	4	4	4	3	5	5	4	5	4	8	5	6	3	3.2	7.9
11-Oct-07	3	3	3	4	6	5	7	7	7	6	7	4	4	2	2	3	4	4	3	4	3	1	0	0	3.9	7.3
12-Oct-07	1	0	2	2	2	2	1	3	6	5	5	4	1	0	2	2	2	3	3	3	5	8	6	6	3.1	7.7
13-Oct-07	4	4	4	4	3	3	4	5	8	7	6	4	3	2	1	3	3	4	5	6	5	4	5	5	4.3	7.8
14-Oct-07	4	6	6	10	4	4	4	6	7	7	5	4	0	1	2	8	3	3	4	4	3	3	3	3	4.3	9.6
15-Oct-07	2	3	2	3	2	2	4	8	11	3	2	2	2	2	3	2	2	1	1	1	0	1	1	2	2.6	11.2
16-Oct-07	2	2	1	2	2	2	3	6	4	3	2	3	2	3	3	4	4	5	4	4	4	5	5	3	3.3	5.9
17-Oct-07	4	4	4	5	5	6	6	7	8	6	0	3	0	2	4	5	7	10	12	10	10	9	8	5	5.9	12.0
18-Oct-07	4	3	3	3	3	4	5	8	6	4	4	4	2	2	0	0	1	1	4	2	2	1	3	1	2.9	7.8
19-Oct-07	0	1	0	1	1	0	2	3	3	2	1	1	1	0	0	1	1	2	1	2	1	4	2	2	1.3	3.8
20-Oct-07	2	2	2	3	2	2	2	4	6	6	4	3	2	2	4	3	4	5	6	4	4	4	6	6	3.6	6.1
21-Oct-07	6	8	5	5	4	3	5	4	4	5	4	3	1	0	0	0	2	4	2	2	2	0	0	1	2.9	7.6
22-Oct-07	1	0	0	0	1	2	1	1	0	1	0	0	0	0	2	3	2	3	3	2	3	3	3	3	1.4	3.5
23-Oct-07	3	3	2	3	7	3	5	7	6	6	6	6	4	1	3	3	3	2	9	7	2	1	1	1	4.0	8.8
24-Oct-07	1	1	2	0	1	0	0	0	1	3	3	1	2	2	2	3	4	6	5	5	5	4	4	2	2.4	6.4
25-Oct-07	3	3	2	2	1	2	2	2	2	3	2	0	0	1	1	5	1	2	3	2	2	3	3	2	2.0	5.3
26-Oct-07	4	3	2	3	2	2	3	5	6	4	4	0	1	2	2	8	2	2	0	2	2	1	1	1	2.6	7.8
27-Oct-07	1	1	1	0	1	1	3	4	1	2	2	1	2	2	2	3	2	2	4	3	2	2	1	2	1.9	4.1
28-Oct-07	1	3	3	3	3	5	8	7	9	8	7	6	5	4	5	3	3	8	8	6	7	9	8	8	5.7	8.9
29-Oct-07	7	7	8	8	9	9	10	11	9	9	9	8	9	7	6	5	7	9	6	9	7	6	6	4	7.6	10.6
30-Oct-07	10	14	11	6	2	2	3	C	C	C	2	0	0	0	1	3	0	2	1	2	3	2	1	1	3.2	13.9
31-Oct-07	0	0	1	0	1	1	1	3	3	2	2	3	4	1	2	4	5	7	7	6	5	4	4	4	2.9	7.0
Hourly Avg	2.4	2.7	2.4	2.6	2.7	2.6	3.4	4.5	4.6	3.8	3.2	2.5	1.9	1.7	1.9	2.8	2.6	3.2	3.8	3.4	3.3	3.2	2.9	2.4		
Hourly Max	9.9	13.9	10.8	9.6	8.8	8.8	10.2	10.6	11.2	9.3	8.6	7.7	9.1	7.4	5.7	8.4	7.5	10.3	12.0	10.1	10.4	8.9	7.7	7.6		

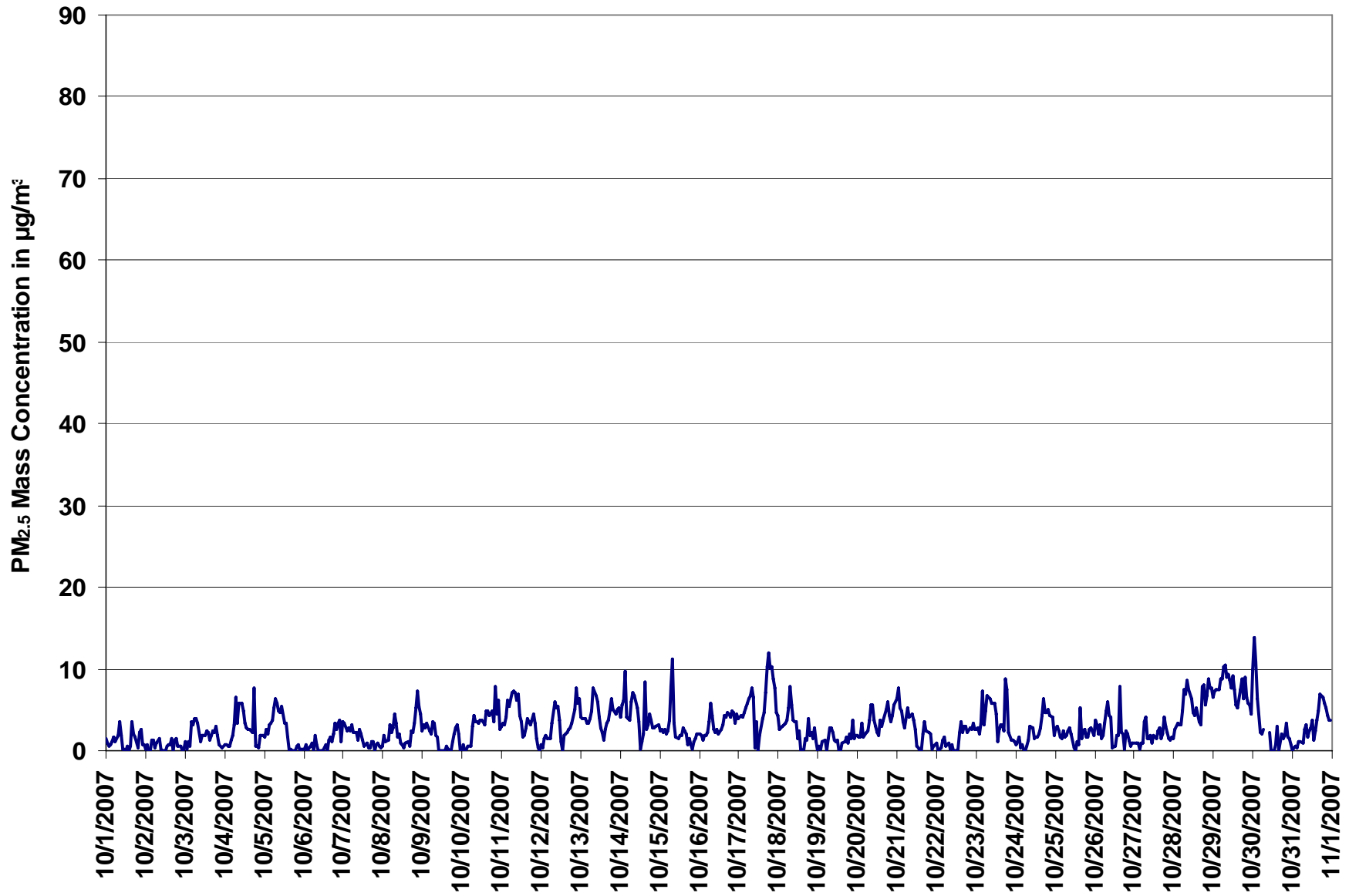


Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

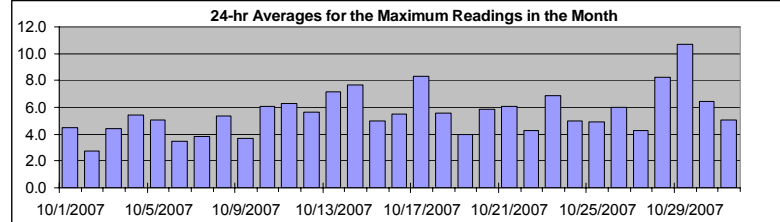
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	35.7	µg/m ³	14-Oct	15:00 16:00
Maximum 24-hr Value:	10.7	µg/m ³	29-Oct	



AIC Time:	0 hrs	Operational Time:	741 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	15.5	10.8	6.9	5.0	3.5	2.0	1.2	5.6	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-Oct-07	4	3	3	2	5	5	3	3	6	6	2	2	3	3	2	3	17	5	3	6	8	6	4	3	4.5	16.6
2-Oct-07	2	3	1	2	4	4	2	2	4	3	3	1	1	5	4	3	4	2	4	4	3	2	1	2	2.7	4.9
3-Oct-07	3	3	3	4	9	6	6	7	6	4	4	6	3	4	4	3	4	5	6	5	3	2	4	3	4.4	8.8
4-Oct-07	2	3	2	2	4	4	7	10	6	9	7	7	7	5	5	6	4	5	11	6	3	4	4	5	5.4	11.2
5-Oct-07	5	6	4	7	6	7	9	9	7	7	7	7	6	5	4	3	3	3	2	3	4	4	1	3	5.0	9.1
6-Oct-07	3	2	3	2	3	4	3	4	3	2	1	4	2	2	4	2	3	3	4	6	5	7	6	4	3.5	7.3
7-Oct-07	7	5	4	5	4	9	4	4	4	5	6	4	3	2	2	2	2	3	3	1	3	3	2	2	3.8	9.3
8-Oct-07	2	4	3	4	7	5	6	8	6	5	5	3	2	2	3	6	3	6	5	9	8	12	9	8	5.4	11.9
9-Oct-07	4	5	5	7	4	4	6	6	4	4	2	1	1	1	3	4	2	1	3	5	5	5	4	2	3.7	6.6
10-Oct-07	3	5	2	3	4	4	6	7	6	6	6	6	6	6	5	9	8	6	7	6	15	6	9	6	6.1	14.9
11-Oct-07	6	6	6	6	10	8	10	9	9	8	9	8	6	5	4	5	7	5	5	6	6	5	2	1	6.3	9.8
12-Oct-07	3	2	4	6	4	3	3	5	9	8	7	7	5	3	5	4	5	5	5	5	9	10	8	11	5.7	10.7
13-Oct-07	9	5	6	7	7	8	6	9	12	9	8	7	6	4	5	6	7	5	7	10	7	7	7	8	7.1	11.5
14-Oct-07	6	9	7	13	11	6	6	8	9	9	8	6	3	3	4	36	5	5	7	5	4	4	5	4	7.7	35.7
15-Oct-07	3	4	5	4	4	5	8	10	16	10	4	3	4	4	5	4	5	2	3	2	2	2	5	5	5.0	15.5
16-Oct-07	3	3	2	5	5	5	5	9	7	5	4	4	5	5	5	7	6	7	6	6	7	7	5	8	5.5	8.5
17-Oct-07	6	6	6	6	7	8	9	9	10	9	3	6	5	5	7	6	10	12	15	13	13	10	10	9	8.3	14.8
18-Oct-07	6	6	6	5	6	6	10	11	7	6	7	6	4	6	3	2	4	4	7	5	4	4	6	3	5.6	11.5
19-Oct-07	2	2	2	4	3	2	4	4	7	4	4	4	8	3	3	3	3	7	3	5	5	6	4	5	4.0	7.9
20-Oct-07	4	5	3	7	4	4	5	5	8	8	7	5	4	4	6	6	7	7	8	6	5	6	8	9	5.9	9.2
21-Oct-07	10	12	8	8	6	6	13	6	6	6	6	5	4	4	3	2	9	6	5	5	6	3	3	4	6.1	13.5
22-Oct-07	2	1	3	2	5	7	3	4	3	4	5	1	3	4	5	6	6	5	7	4	6	6	6	5	4.3	7.2
23-Oct-07	5	6	3	8	16	5	7	10	9	8	8	8	7	3	6	8	5	5	11	14	4	3	3	3	6.9	15.5
24-Oct-07	3	3	3	2	4	2	2	2	3	5	5	5	4	4	6	6	6	8	7	7	7	7	13	6	5.0	12.6
25-Oct-07	8	6	6	4	8	5	4	3	4	6	4	3	2	6	6	11	4	4	4	3	4	6	5	3	4.9	11.1
26-Oct-07	5	5	4	5	4	6	7	7	8	7	6	4	5	5	18	19	7	4	3	4	4	3	2	3	6.0	19.3
27-Oct-07	3	3	2	3	2	3	7	13	3	3	4	3	4	4	4	6	4	4	7	6	5	5	3	4	4.3	12.9
28-Oct-07	4	7	6	5	6	8	11	10	14	10	9	8	6	7	7	6	7	10	10	8	10	11	9	10	8.2	13.8
29-Oct-07	8	10	9	10	10	10	12	14	12	11	12	18	18	12	9	7	11	11	9	11	8	7	8	10	10.7	18.1
30-Oct-07	12	18	14	10	6	5	5	C	C	C	5	2	3	3	5	6	2	8	5	6	8	5	5	2	6.4	17.8
31-Oct-07	2	2	2	2	3	3	3	5	6	6	5	5	7	4	4	6	7	10	10	8	7	6	5	6	5.1	9.6
Hourly Avg	4.6	5.2	4.5	5.2	5.8	5.3	6.2	7.2	7.2	6.5	5.6	5.1	4.8	4.4	5.0	6.6	5.6	5.6	6.2	6.0	6.0	5.6	5.3	4.9		
Hourly Max	12.3	17.8	14.1	13.4	15.5	10.5	13.5	14.3	15.5	11.3	11.6	18.1	17.6	11.5	17.6	35.7	16.6	12.3	14.8	13.6	14.9	11.9	12.6	10.7		

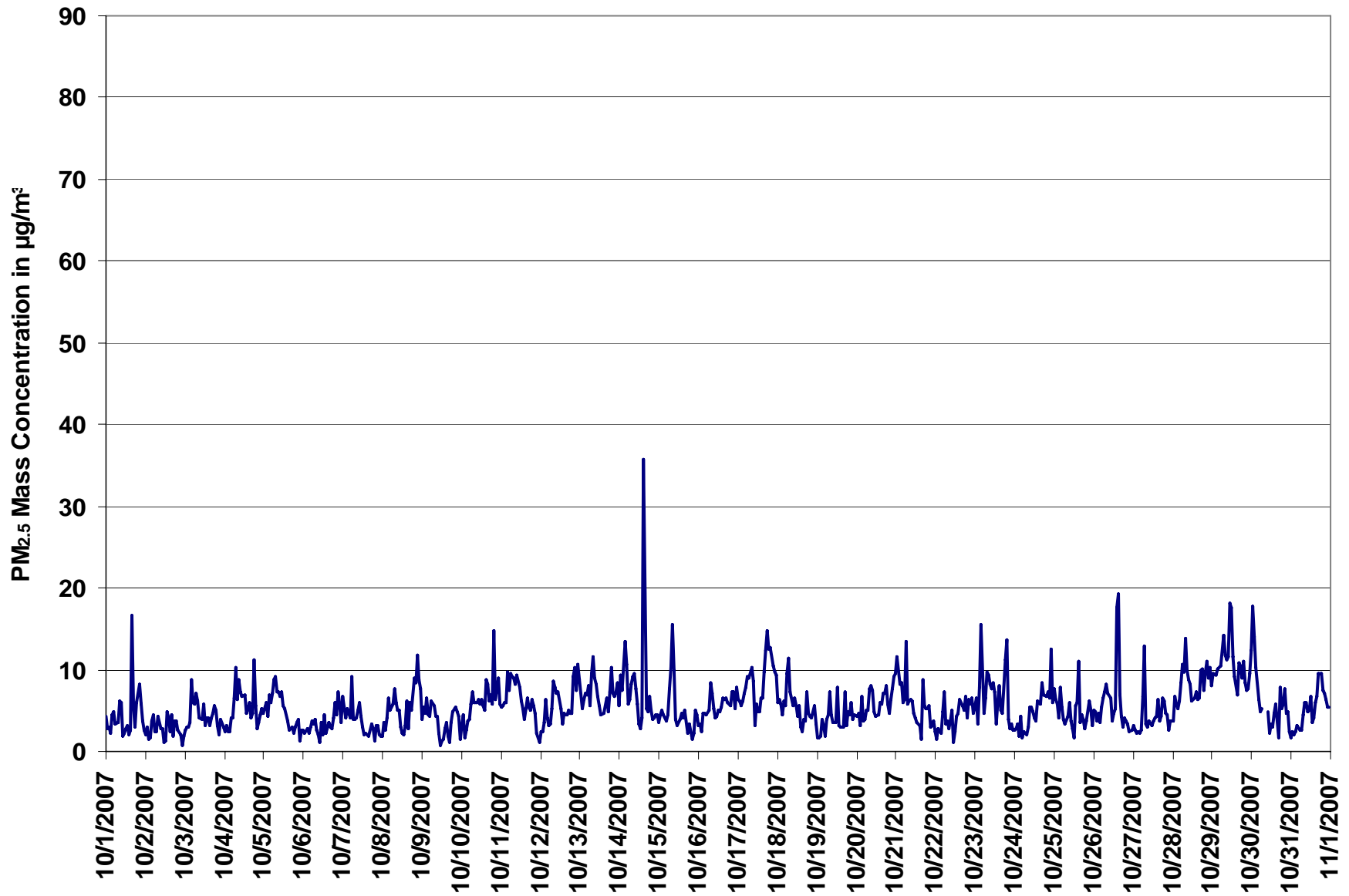
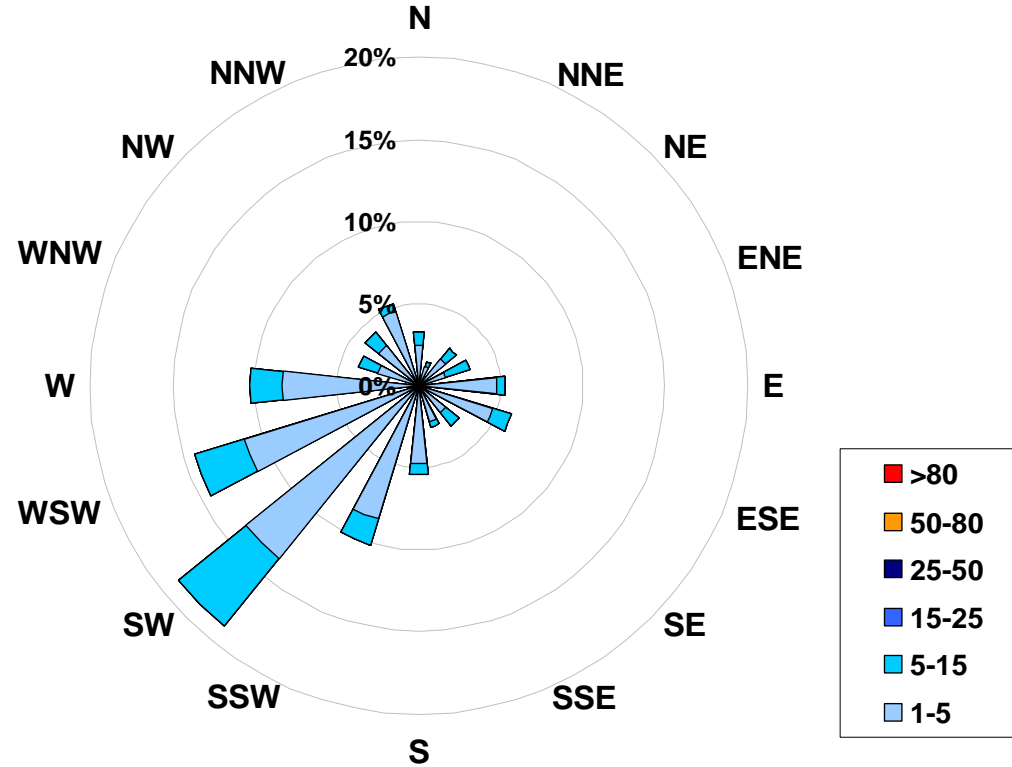


Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend



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 October 2007



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range		Frequency (hrs)	
1.0	< 5	614	
5	to 15	127	
15	to 25	0	
25	to 50	0	
50	to 80	0	
	> 80	0	
Total Non-Zero Values			741



PAS - Crescent Heights Relative Humidity Monthly Summary

Station: Crescent Heights
Station Owner: PAS

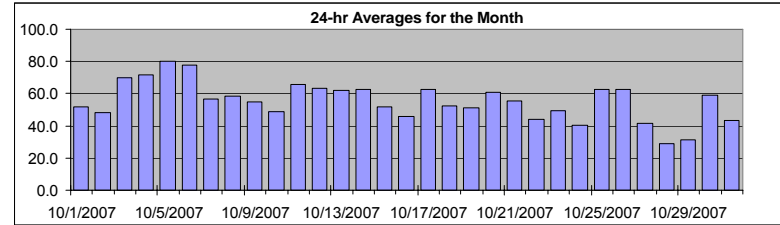
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	87.9 %	6-Oct	4:00 5:00
Maximum 24-hr Value:	80.1 %	5-Oct	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	86.2	82.9	70.4	54.5	40.4	26.4	22.6	55.4 %	54.5 %

Status Flag Characters

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

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-Oct-07	59	61	64	68	70	70	71	69	66	52	42	41	40	38	35	34	34	39	47	48	42	54	53	52		51.9	71.3	
2-Oct-07	55	58	61	68	68	68	65	59	53	43	39	36	33	29	29	30	31	36	40	43	51	54	56	56		48.4	68.5	
3-Oct-07	59	61	66	70	74	75	80	83	76	74	72	66	63	67	62	58	59	63	67	70	74	77	80	83		69.9	82.6	
4-Oct-07	84	84	83	82	82	86	86	77	76	85	83	77	70	62	57	50	46	53	61	63	65	65	70	75		71.8	86.2	
5-Oct-07	75	73	72	72	72	72	72	73	79	83	86	86	84	84	82	82	82	83	84	84	85	86	85	86		80.1	86.1	
6-Oct-07	86	87	87	88	88	88	88	87	85	80	76	71	70	66	61	57	55	64	70	77	82	85	85	83		77.7	87.9	
7-Oct-07	82	77	74	72	73	76	72	60	54	45	46	42	41	38	36	35	38	46	53	56	58	59	61	66		56.6	82.0	
8-Oct-07	68	69	70	73	76	76	70	71	65	60	54	51	46	42	40	35	35	38	43	50	56	68	72	74		58.4	76.1	
9-Oct-07	76	78	79	82	82	81	80	71	60	52	44	35	34	33	34	35	35	36	40	46	51	54	54	47		55.0	82.4	
10-Oct-07	43	47	45	43	43	46	46	47	46	44	42	42	39	37	38	41	42	49	54	60	62	68	74	78		49.0	78.2	
11-Oct-07	77	73	72	69	79	83	81	76	74	71	65	58	53	48	44	46	51	57	60	67	74	71	66	61		65.7	83.1	
12-Oct-07	60	64	70	73	76	78	79	78	75	70	67	58	51	40	45	49	50	53	55	58	65	68	68	72		63.4	79.0	
13-Oct-07	73	73	74	75	76	75	76	73	67	66	62	56	48	42	37	34	36	44	51	60	68	72	74	79		62.1	79.4	
14-Oct-07	79	78	80	82	83	83	83	80	70	61	54	48	40	37	36	36	37	44	53	64	69	70	68	66		62.5	83.5	
15-Oct-07	66	69	77	79	80	79	79	75	66	51	40	38	35	32	32	33	34	35	39	40	38	38	42	44		51.7	79.6	
16-Oct-07	46	48	48	50	52	55	56	49	45	42	40	36	31	28	28	33	36	43	48	52	55	56	59	65		46.0	65.3	
17-Oct-07	72	73	71	70	70	74	78	83	81	81	66	60	42	36	37	40	46	54	60	62	64	62	63	66		62.9	83.4	
18-Oct-07	68	64	62	65	69	74	75	70	65	59	53	46	42	38	31	25	26	32	39	42	51	52	55	56		52.5	75.4	
19-Oct-07	51	51	56	59	62	64	63	59	54	54	53	49	45	42	36	36	37	42	42	48	53	54	59	60		51.2	63.7	
20-Oct-07	60	65	69	71	74	75	76	72	66	68	61	58	57	50	49	46	47	51	52	51	56	62	63	69		61.1	76.1	
21-Oct-07	71	75	78	75	75	74	74	73	67	62	55	48	42	38	33	27	29	36	42	46	52	54	55	55		55.7	77.6	
22-Oct-07	50	48	49	53	53	51	50	50	47	42	38	34	32	31	32	34	39	44	47	48	48	48	47	47		44.3	53.2	
23-Oct-07	47	47	47	48	55	62	67	69	67	62	54	46	42	37	36	31	33	39	44	49	51	52	50	49		49.4	69.3	
24-Oct-07	52	54	53	52	51	49	49	48	44	40	36	29	26	23	23	24	26	32	34	40	40	40	51	51		40.3	54.3	
25-Oct-07	54	63	67	69	69	69	69	69	67	64	53	48	43	40	32	55	60	64	67	72	74	76	76	80		62.4	79.6	
26-Oct-07	79	79	78	79	80	82	83	82	77	73	63	48	38	36	33	54	50	45	39	47	56	61	66	70		62.4	83.4	
27-Oct-07	72	74	75	72	73	72	59	50	44	39	34	28	26	24	22	21	24	26	26	31	30	27	25	26		41.7	74.6	
28-Oct-07	26	27	22	23	23	23	31	37	39	37	33	27	24	24	26	26	25	31	34	27	29	31	33	38		29.0	39.2	
29-Oct-07	37	33	35	34	34	36	39	39	32	29	27	23	23	23	24	24	24	26	29	33	35	35	39	35		31.1	38.9	
30-Oct-07	50	71	78	76	77	85	86	85	76	66	54	42	36	35	36	46	40	36	41	51	61	62	61	64		59.0	86.0	
31-Oct-07	63	66	69	70	66	65	66	59	52	46	41	33	27	17	15	16	21	25	31	37	40	41	39	40		43.5	69.9	
Hourly Avg	62.6	64.2	65.6	66.6	67.9	69.1	69.4	66.9	62.5	58.2	52.7	47.1	42.7	39.2	37.4	38.4	39.6	44.1	48.1	52.4	56.0	58.1	59.7	61.0				
Hourly Max	85.8	86.8	87.4	87.8	87.9	87.8	87.7	87.3	85.4	85.4	86.1	86.1	83.7	83.6	82.0	82.0	82.1	82.9	84.4	84.5	84.7	85.6	85.5	85.7				

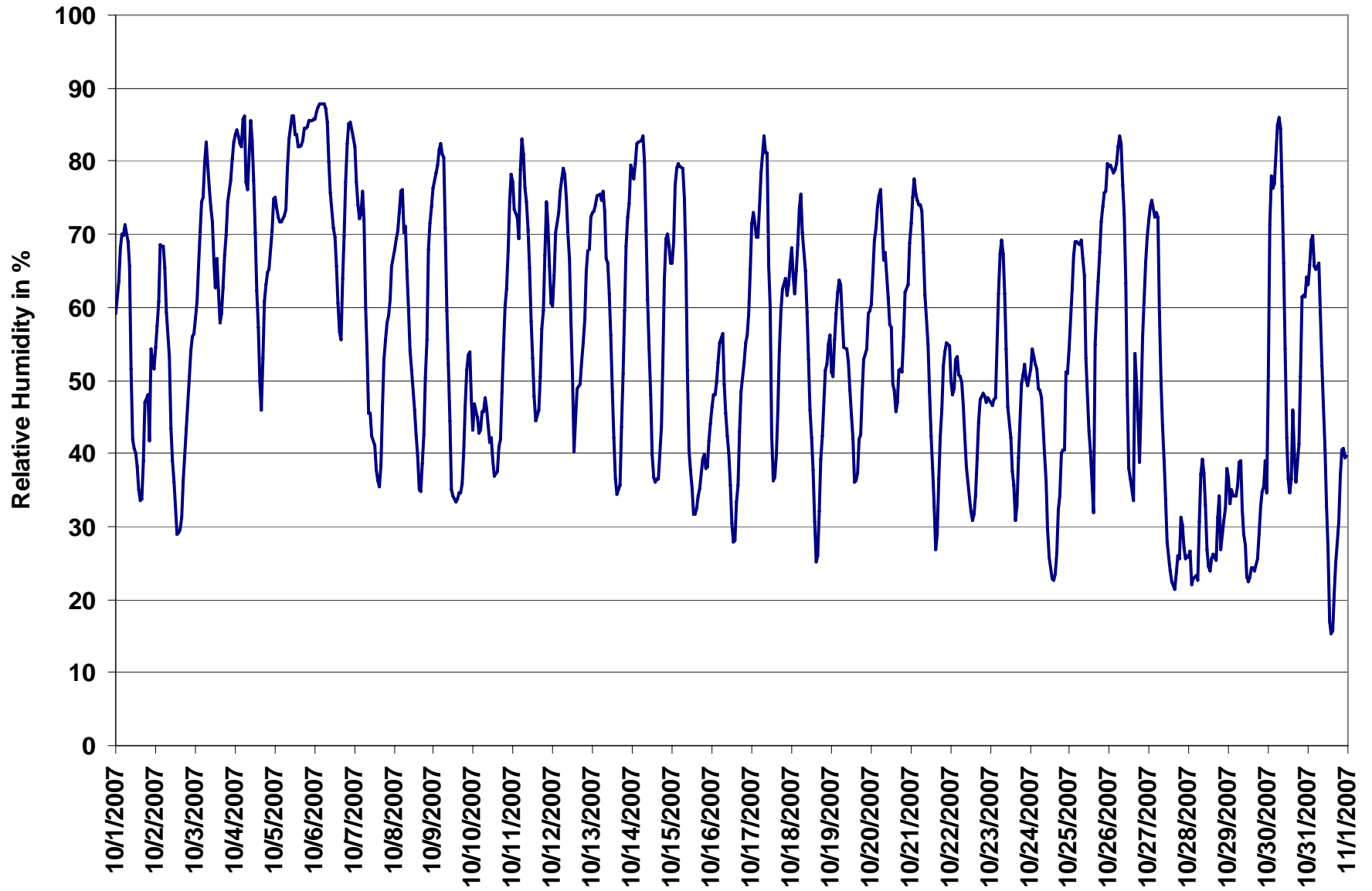


Figure 13. PAS - Crescent Heights Relative Humidity 1-hr Average Monthly Trend



PAS - Crescent Heights Temperature Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

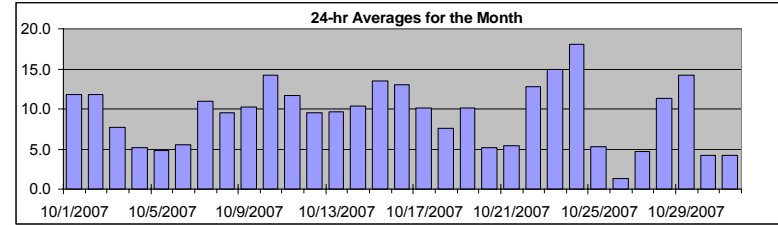
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	25.0 °C	24-Oct	14:00 15:00
Maximum 24-hr Value:	18.1 °C	24-Oct	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	21.7	18.8	13.6	9.0	5.3	0.0	-4.2	9.3 °C	9.0 °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-Oct-07	9	8	8	7	7	7	7	8	9	14	16	16	16	17	17	17	17	15	13	12	13	10	10	10	11.8	17.3	
2-Oct-07	9	8	7	5	6	6	7	8	11	13	15	16	17	18	18	18	17	16	14	13	11	11	10	10	11.8	18.2	
3-Oct-07	9	9	8	7	6	6	6	6	7	8	8	10	10	10	10	10	9	8	8	7	6	5	4	4	7.7	10.3	
4-Oct-07	3	2	1	1	1	0	0	2	3	2	4	5	7	10	11	12	13	10	9	8	7	7	5	4	5.2	13.0	
5-Oct-07	4	4	4	4	4	4	5	5	5	5	5	6	6	7	6	6	5	5	5	4	4	4	4	4	4.8	6.6	
6-Oct-07	4	4	4	4	4	4	4	4	5	5	6	7	7	8	10	11	11	9	7	5	3	2	2	2	5.5	11.4	
7-Oct-07	2	3	3	4	3	2	3	6	9	12	14	17	18	20	20	20	19	16	14	13	12	12	11	10	11.0	20.3	
8-Oct-07	9	8	8	7	7	7	8	7	10	11	12	12	13	14	14	15	14	13	11	9	8	5	4	3	9.5	14.8	
9-Oct-07	2	2	1	1	1	1	2	5	9	12	14	17	18	19	19	19	17	15	14	13	12	11	11	11	10.3	18.8	
10-Oct-07	11	10	11	12	11	11	13	13	14	16	18	18	20	20	20	19	19	16	13	11	11	11	12	11	14.2	20.4	
11-Oct-07	10	11	11	12	10	9	9	10	10	10	12	14	16	17	17	16	15	14	13	11	9	8	7	8	11.6	17.2	
12-Oct-07	8	6	5	5	4	4	4	4	6	9	11	14	15	17	16	14	14	13	12	11	10	9	9	8	9.5	16.7	
13-Oct-07	8	8	8	8	7	7	7	7	9	10	10	12	14	15	16	16	16	13	11	9	6	5	5	4	9.7	16.5	
14-Oct-07	4	4	3	3	2	2	2	4	7	11	14	17	19	19	20	19	19	16	14	11	9	9	10	11	10.4	19.6	
15-Oct-07	11	10	7	7	6	6	6	6	11	15	18	19	20	22	22	21	20	17	15	14	13	13	13	12	13.5	21.8	
16-Oct-07	12	11	11	10	9	9	8	11	12	14	15	17	19	20	20	19	18	15	13	11	10	10	10	8	13.0	20.4	
17-Oct-07	7	7	8	8	9	8	8	8	9	9	10	11	14	15	15	14	13	12	11	10	10	10	9	8	10.1	15.4	
18-Oct-07	6	6	5	4	3	2	2	4	5	7	9	12	13	14	14	14	13	10	8	8	6	5	5	5	7.5	14.1	
19-Oct-07	6	7	7	7	7	6	6	8	10	11	12	13	14	15	17	16	15	14	12	10	9	9	7	6	10.1	16.6	
20-Oct-07	5	3	2	2	2	1	1	1	3	5	8	9	9	10	10	10	10	8	7	6	4	3	3	2	5.2	10.4	
21-Oct-07	1	0	0	0	0	1	1	1	2	4	7	10	11	12	12	12	11	9	8	7	6	5	5	6	5.5	12.4	
22-Oct-07	8	8	8	7	7	8	8	9	10	12	14	16	17	18	18	18	16	15	14	15	15	15	15	15	12.8	18.4	
23-Oct-07	15	15	15	15	13	10	8	7	8	10	13	16	18	20	21	22	22	19	17	15	14	14	14	15	14.9	22.4	
24-Oct-07	15	14	15	15	15	16	16	16	17	18	20	23	24	25	25	25	24	21	19	17	17	17	12	9	18.1	25.0	
25-Oct-07	7	6	5	5	5	5	5	5	6	6	8	9	9	10	11	8	6	5	3	2	1	0	0	-1	5.3	11.1	
26-Oct-07	-1	-1	0	0	0	-1	-2	-2	0	2	5	7	8	9	8	6	5	3	1	-1	-3	-5	-6	-1	1.3	8.5	
27-Oct-07	-7	-7	-7	-7	-7	-7	-3	0	3	5	8	11	12	13	14	15	13	11	11	9	8	8	8	8	4.6	14.5	
28-Oct-07	8	7	8	8	7	8	7	6	6	8	10	14	15	16	16	16	15	13	12	15	15	15	14	12	11.3	16.1	
29-Oct-07	12	13	12	13	13	12	11	10	12	15	16	18	19	19	19	18	17	15	14	14	14	14	12	11	14.3	19.0	
30-Oct-07	7	4	3	5	4	3	2	2	3	5	6	8	9	10	8	8	8	6	4	2	0	-1	-1	-2	4.3	9.5	
31-Oct-07	-2	-2	-3	-3	-2	-3	-3	-2	1	3	6	8	11	14	14	14	12	9	7	5	5	5	5	5	4.2	13.9	
Hourly Avg	6.6	6.1	5.8	5.6	5.3	5.0	5.0	5.8	7.5	9.3	11.1	12.9	14.2	15.2	15.5	15.1	14.3	12.3	10.8	9.5	8.6	8.1	7.5	6.8			
Hourly Max	15.3	15.3	15.1	15.1	15.2	16.0	15.8	15.7	16.8	18.4	20.3	22.8	23.9	24.8	25.0	24.6	23.7	21.2	19.3	16.8	16.9	17.2	15.3	15.2			

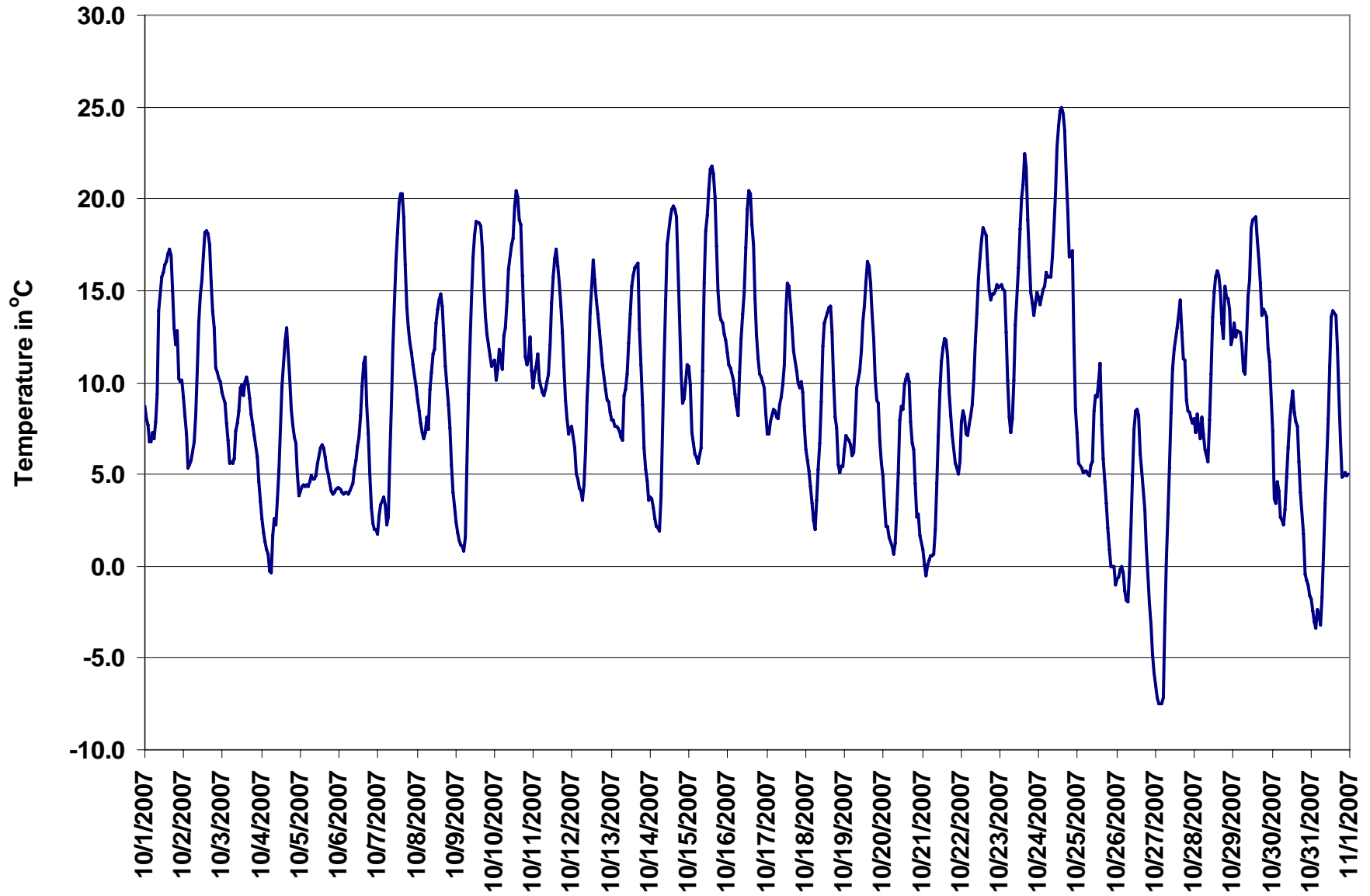


Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend



PAS - Crescent Heights Solar Radiation Monthly Summary

Station: Crescent Heights
Station Owner: PAS

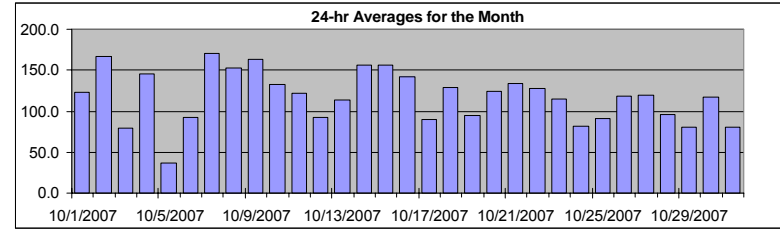
HOURLY AVERAGE TABLE

Solar Radiation (SR)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	644.4	W/m ²	2-Oct	12:00 13:00
Maximum 24-hr Value:	170.4	W/m ²	7-Oct	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	590.5	510.0	207.4	0.2	0.0	0.0	0.0	117.6 W/m ²	0.2 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		
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-Oct-07	0	0	0	0	0	0	8	66	208	462	488	348	313	285	289	251	196	32	1	0	0	0	0	0	122.7	487.6
2-Oct-07	0	0	0	0	0	0	16	115	317	386	384	530	644	604	394	337	220	45	0	0	0	0	0	0	166.3	644.4
3-Oct-07	0	0	0	0	0	0	2	37	171	232	245	335	258	133	252	158	67	25	0	0	0	0	0	0	79.8	334.6
4-Oct-07	0	0	0	0	0	0	12	145	305	172	231	444	633	598	351	368	211	37	0	0	0	0	0	0	146.1	633.1
5-Oct-07	0	0	0	0	0	0	2	21	47	59	87	81	123	119	145	118	63	25	0	0	0	0	0	0	37.1	144.8
6-Oct-07	0	0	0	0	0	0	2	25	57	133	183	242	268	372	350	358	202	24	0	0	0	0	0	0	92.3	371.9
7-Oct-07	0	0	0	0	0	0	8	128	287	434	544	609	606	572	352	347	186	19	0	0	0	0	0	0	170.4	608.6
8-Oct-07	0	0	0	0	0	0	5	119	284	422	468	400	579	555	343	341	133	19	0	0	0	0	0	0	152.8	579.1
9-Oct-07	0	0	0	0	0	0	6	80	288	416	528	595	596	563	326	339	178	14	0	0	0	0	0	0	163.8	596.4
10-Oct-07	0	0	0	0	0	0	6	118	272	346	350	397	571	462	222	217	204	20	0	0	0	0	0	0	132.7	571.3
11-Oct-07	0	0	0	0	0	0	2	80	90	102	391	584	555	474	421	154	46	13	0	0	0	0	0	0	121.4	584.1
12-Oct-07	0	0	0	0	0	0	4	52	125	170	323	381	379	454	200	82	46	10	0	0	0	0	0	0	92.8	453.6
13-Oct-07	0	0	0	0	0	0	2	37	229	161	197	344	393	511	395	303	153	12	0	0	0	0	0	0	114.1	511.5
14-Oct-07	0	0	0	0	0	0	3	96	250	394	503	566	560	531	390	306	147	8	0	0	0	0	0	0	156.5	565.9
15-Oct-07	0	0	0	0	0	0	3	92	248	393	502	565	562	529	389	302	143	8	0	0	0	0	0	0	155.7	565.5
16-Oct-07	0	0	0	0	0	0	3	87	240	382	492	557	555	523	314	167	85	5	0	0	0	0	0	0	142.1	557.1
17-Oct-07	0	0	0	0	0	0	1	18	44	78	115	284	475	551	348	177	64	13	0	0	0	0	0	0	90.3	550.7
18-Oct-07	0	0	0	0	0	0	2	65	91	164	409	544	544	511	370	281	115	4	0	0	0	0	0	0	129.1	543.9
19-Oct-07	0	0	0	0	0	0	3	42	158	139	185	305	459	506	232	170	61	5	0	0	0	0	0	0	94.3	505.8
20-Oct-07	0	0	0	0	0	0	2	74	172	366	482	496	298	437	303	252	102	4	0	0	0	0	0	0	124.5	495.6
21-Oct-07	0	0	0	0	0	0	1	69	221	362	471	535	511	506	262	206	67	5	0	0	0	0	0	0	134.1	535.0
22-Oct-07	0	0	0	0	0	0	0	40	202	359	402	518	514	477	254	243	53	2	0	0	0	0	0	0	127.7	517.6
23-Oct-07	0	0	0	0	0	0	0	27	117	253	414	479	535	354	223	242	101	5	0	0	0	0	0	0	114.6	534.7
24-Oct-07	0	0	0	0	0	0	1	30	115	207	301	329	297	270	187	125	99	2	0	0	0	0	0	0	81.8	328.9
25-Oct-07	0	0	0	0	0	0	0	11	63	188	492	399	239	335	262	140	54	3	0	0	0	0	0	0	91.1	492.3
26-Oct-07	0	0	0	0	0	0	0	53	195	336	445	485	449	360	203	226	81	2	0	0	0	0	0	0	118.1	485.3
27-Oct-07	0	0	0	0	0	0	1	22	206	300	438	499	493	459	204	218	29	1	0	0	0	0	0	0	119.5	498.9
28-Oct-07	0	0	0	0	0	0	0	19	80	237	448	534	336	339	185	97	34	1	0	0	0	0	0	0	96.3	534.4
29-Oct-07	0	0	0	0	0	0	0	39	181	256	362	494	224	162	130	65	23	1	0	0	0	0	0	0	80.8	493.5
30-Oct-07	0	0	0	0	0	0	0	12	166	318	422	500	458	481	189	204	67	0	0	0	0	0	0	0	117.4	499.9
31-Oct-07	0	0	0	0	0	0	0	42	148	184	165	213	280	414	253	178	40	0	0	0	0	0	0	0	80.0	414.1
Hourly Avg	0.0	0.0	0.0	0.0	0.0	0.0	3.0	60.1	180.0	271.3	369.9	438.5	442.2	433.8	281.9	224.9	105.4	11.8	0.1	0.0	0.0	0.0	0.0	0.0		
Hourly Max	0.0	0.0	0.0	0.0	0.0	0.0	15.8	144.8	316.6	461.7	543.6	608.6	644.4	603.6	421.1	368.5	219.8	44.7	1.0	0.0	0.0	0.0	0.0	0.0		

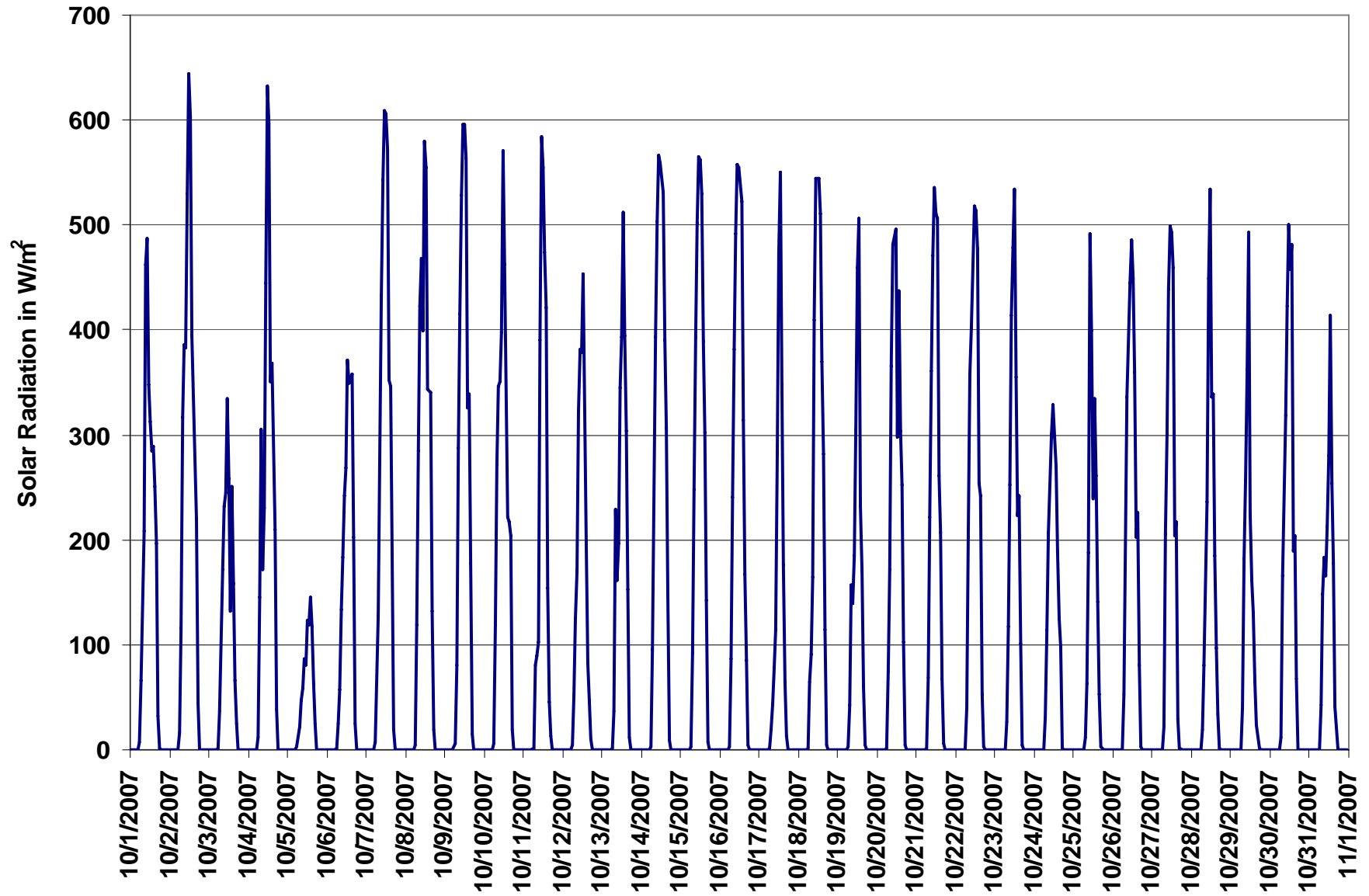


Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend



PAS - Crescent Heights Scalar Wind Speed Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

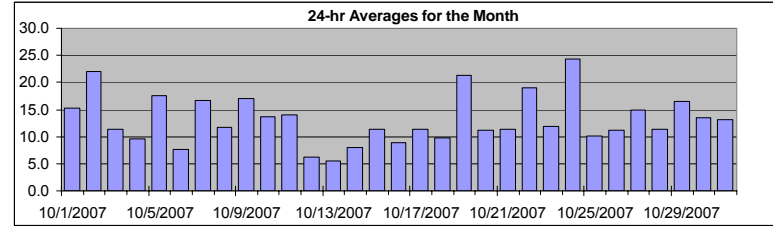
Wind Speed (WSs)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	35.1	km/hr	24-Oct	8:00 9:00
Maximum 24-hr Value:	24.3	km/hr	24-Oct	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	29.7	25.4	17.6	12.0	7.7	4.5	3.6	13.1 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Oct-07	14	9	7	6	10	9	10	16	12	18	23	20	19	20	19	18	19	18	13	17	13	16	19	19	15.2	23.5
2-Oct-07	17	16	18	18	19	14	13	16	18	23	27	25	29	24	29	29	24	21	28	23	22	22	27	26	22.0	29.1
3-Oct-07	26	22	16	10	9	8	8	7	8	14	14	12	14	13	12	10	9	9	7	6	8	10	13	8	11.3	26.0
4-Oct-07	10	9	8	8	5	4	4	6	13	16	15	13	12	7	6	5	5	8	14	12	18	15	15	9.6	17.6	
5-Oct-07	19	20	21	21	21	13	10	13	11	18	20	19	20	21	23	22	24	25	18	16	15	12	11	10	17.6	25.3
6-Oct-07	9	9	8	7	6	7	8	7	6	9	10	11	10	11	7	6	6	7	7	7	6	5	7	7	7.7	10.9
7-Oct-07	6	10	11	11	8	8	10	12	17	24	25	24	22	20	20	21	23	16	15	19	19	21	21	19	16.7	24.9
8-Oct-07	20	17	16	18	14	6	9	9	15	19	18	17	13	15	13	14	9	6	7	6	4	4	6	4	11.7	19.9
9-Oct-07	6	5	3	4	5	5	7	12	15	18	19	24	22	23	27	27	29	27	26	22	20	19	18	23	17.0	28.8
10-Oct-07	27	21	22	20	13	26	13	10	8	9	11	13	10	9	11	13	13	10	9	10	9	12	16	13	13.6	26.5
11-Oct-07	21	21	25	27	24	11	14	15	17	12	11	13	13	11	13	8	6	9	11	8	8	9	12	14	13.9	27.2
12-Oct-07	12	8	5	4	6	8	7	6	4	3	5	5	5	6	8	12	11	9	8	5	4	3	4	4	6.3	12.5
13-Oct-07	4	4	4	4	4	3	3	4	4	6	6	7	7	7	6	6	4	4	6	9	9	6	8	4	5.5	9.2
14-Oct-07	5	5	4	3	5	5	4	4	4	4	4	6	14	17	19	17	12	11	11	9	9	8	8	7	8.0	18.7
15-Oct-07	8	5	5	6	6	6	6	7	5	12	17	23	20	19	18	16	16	15	12	10	11	10	11	10	11.4	23.2
16-Oct-07	10	9	10	9	8	6	7	7	9	10	9	8	13	12	12	15	9	8	8	7	5	6	8	8	8.9	14.5
17-Oct-07	11	14	13	12	11	8	10	12	14	15	18	16	12	13	13	13	11	10	7	6	6	9	10	10	11.4	17.8
18-Oct-07	10	12	10	10	7	5	7	6	7	9	10	10	12	15	16	17	14	7	9	13	9	6	5	8	9.7	17.1
19-Oct-07	18	25	26	25	20	11	13	18	22	24	24	27	31	29	20	16	17	24	29	24	21	16	14	14	21.3	31.3
20-Oct-07	11	14	15	12	9	11	10	8	8	9	13	16	16	18	18	15	12	8	8	10	12	5	6	4	11.1	18.2
21-Oct-07	5	5	7	8	10	12	11	12	13	13	15	14	12	13	11	12	7	13	10	11	12	17	15	14	11.3	16.5
22-Oct-07	14	17	15	12	12	14	14	15	17	18	19	17	17	21	21	24	23	20	22	24	24	24	25	24	19.0	25.4
23-Oct-07	24	23	23	22	14	11	7	5	5	5	6	7	11	8	12	11	10	11	14	16	14	14	11	12	11.9	23.8
24-Oct-07	16	24	18	20	23	27	29	31	35	31	29	30	31	33	30	27	22	19	17	11	12	21	24	25	24.3	35.1
25-Oct-07	21	15	15	8	7	8	8	10	12	11	9	9	7	7	7	21	18	11	7	6	7	6	10	5	10.2	21.0
26-Oct-07	3	6	5	8	8	9	6	7	10	14	15	17	16	15	23	21	20	16	10	8	7	8	8	7	11.2	22.6
27-Oct-07	6	7	6	4	5	4	10	16	20	26	21	25	26	26	23	16	16	18	20	11	12	12	14	12	14.8	26.5
28-Oct-07	14	12	18	10	9	16	12	6	4	7	9	8	9	9	8	9	9	6	7	20	20	18	21	11	11.3	20.6
29-Oct-07	11	12	11	15	15	18	12	14	14	11	16	22	27	23	24	25	20	20	17	18	13	14	9	13	16.4	26.8
30-Oct-07	20	19	13	16	23	12	9	12	14	15	14	16	16	16	21	14	9	8	8	8	6	11	14	9	13.4	23.1
31-Oct-07	7	7	7	5	11	7	8	15	13	11	18	19	12	16	17	15	9	10	17	14	16	18	21	20	13.1	20.9
1-hr Average	13.1	12.9	12.4	11.7	11.2	10.1	9.7	10.8	12.2	14.1	15.2	15.8	16.0	16.1	16.3	15.9	14.0	12.9	12.7	12.4	11.8	12.3	13.2	12.2		
Hourly Max	26.5	25.4	25.9	27.2	23.7	27.0	28.6	31.0	35.1	30.7	28.6	30.0	31.3	32.7	30.1	28.8	28.8	26.9	29.3	24.0	23.5	24.5	26.7	26.1		



PAS - Crescent Heights Vector Wind Speed Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

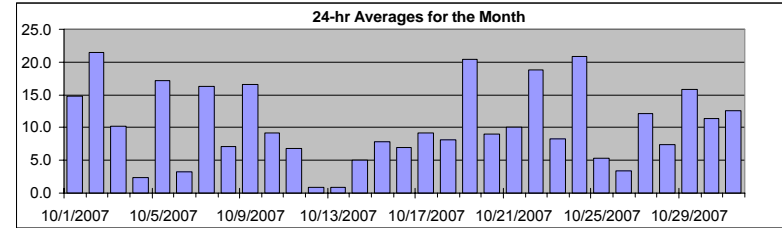
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	34.9	km/hr	24-Oct	8:00 9:00
Maximum 24-hr Value:	21.4	km/hr	2-Oct	



Calm Time:	1 hrs	0% calms	Operational Time:	743 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	29.6	25.3	17.5	11.5	7.2	2.8	1.8	28.7 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-Oct-07	14	7	6	5	10	8	9	15	12	18	23	19	19	20	19	18	19	17	13	11	10	16	19	19		14.8	23.3
2-Oct-07	17	14	17	18	19	14	12	16	17	23	27	25	29	24	29	29	24	21	28	23	22	22	27	26		21.4	28.7
3-Oct-07	26	22	15	9	9	7	8	6	8	13	14	11	14	13	11	9	9	8	6	6	8	10	13	8		10.3	25.9
4-Oct-07	10	9	7	7	2	calm	1	5	13	15	15	12	11	5	3	3	3	4	7	14	11	17	15	15		2.4	17.3
5-Oct-07	19	20	21	21	21	12	10	13	11	18	20	19	20	21	23	22	24	25	17	15	14	12	11	10		17.1	25.0
6-Oct-07	9	9	8	7	6	7	7	6	4	8	10	11	9	10	5	3	5	7	7	7	6	2	6	5		3.3	10.6
7-Oct-07	5	10	11	10	7	8	10	12	17	24	25	23	22	19	20	20	23	16	15	19	19	21	21	19		16.3	24.7
8-Oct-07	20	16	16	18	12	5	9	9	15	19	18	16	13	15	13	13	9	6	7	4	2	2	5	4		7.1	19.9
9-Oct-07	6	3	3	3	4	4	6	12	15	18	19	23	22	23	27	27	29	27	26	22	20	19	18	23		16.5	28.7
10-Oct-07	26	20	21	19	10	25	12	2	7	9	6	12	8	3	10	9	11	9	8	10	5	12	13	13		9.2	26.4
11-Oct-07	21	21	25	27	23	11	14	15	17	11	11	12	13	10	13	7	5	9	11	8	8	7	12	13		6.8	27.1
12-Oct-07	12	6	4	3	5	8	6	5	1	2	4	2	3	2	7	12	11	9	8	4	3	2	1	3		0.8	12.3
13-Oct-07	3	3	3	2	3	2	2	4	3	5	5	6	6	6	4	4	2	3	6	9	9	6	7	3		0.9	9.1
14-Oct-07	5	4	3	2	4	5	3	3	2	2	2	5	13	17	18	17	12	11	11	9	9	8	8	6		5.0	18.3
15-Oct-07	8	3	5	6	5	5	5	7	2	12	16	23	19	19	18	16	15	14	12	10	10	9	9	6		7.8	22.9
16-Oct-07	9	6	7	7	7	5	5	6	8	10	8	6	12	12	12	14	8	7	7	6	3	5	7	8		6.9	14.3
17-Oct-07	11	14	13	12	10	7	9	12	14	15	18	16	11	13	13	13	11	10	7	5	4	8	10	10		9.2	17.7
18-Oct-07	10	12	10	10	6	2	5	5	7	9	9	9	12	14	15	17	13	7	9	12	9	4	5	6		8.1	16.6
19-Oct-07	18	25	26	24	20	11	12	18	22	23	24	27	31	28	20	16	17	24	29	23	21	16	14	14		20.5	30.9
20-Oct-07	11	14	15	11	8	11	10	6	8	9	11	15	16	18	18	15	12	8	8	10	11	2	6	2		9.1	17.7
21-Oct-07	2	4	6	6	9	12	11	12	13	12	15	13	12	13	11	12	7	12	10	10	12	16	15	14		10.1	16.4
22-Oct-07	14	17	15	12	12	13	14	15	17	18	19	17	17	20	21	24	23	20	22	24	23	24	25	24		18.8	25.4
23-Oct-07	24	23	23	21	14	11	6	4	4	4	4	4	6	11	8	11	11	9	11	14	16	13	11	12		8.3	23.7
24-Oct-07	16	23	18	20	23	27	28	31	35	31	28	30	31	33	30	27	22	19	16	11	12	21	22	25		20.9	34.9
25-Oct-07	21	15	15	8	3	8	6	9	12	11	9	8	6	5	5	20	18	11	7	6	7	5	10	4		5.3	20.9
26-Oct-07	3	6	4	7	8	9	5	7	10	13	15	17	15	15	22	21	20	16	10	8	7	8	7	7		3.4	22.3
27-Oct-07	5	7	6	4	4	4	9	15	20	26	20	25	26	25	23	16	16	18	19	11	11	12	13	12		12.1	26.1
28-Oct-07	13	12	17	10	9	16	12	4	2	5	8	8	8	8	7	8	8	5	5	20	19	18	20	11		7.5	20.4
29-Oct-07	11	12	11	15	15	18	11	13	14	11	16	21	27	23	24	25	20	20	17	18	13	14	8	12		15.8	26.6
30-Oct-07	20	18	13	16	23	11	9	12	14	15	14	15	15	15	20	13	9	7	8	8	4	11	13	9		11.5	22.8
31-Oct-07	6	6	7	4	11	6	7	14	13	11	18	19	12	16	17	15	9	10	17	14	16	18	21	19		12.6	20.8
1-hr Vector	6.1	6.6	6.0	5.8	5.3	4.5	4.7	6.0	7.1	8.7	9.9	10.0	9.8	9.4	7.9	6.0	4.2	4.1	4.9	5.2	5.2	6.0	6.8	6.0			
Hourly Max	26.4	25.3	25.8	27.1	23.3	26.8	28.4	30.9	34.9	30.5	28.4	29.9	30.9	32.6	30.0	28.6	28.7	26.8	29.1	24.0	23.4	24.4	26.6	26.0			



PAS - Crescent Heights Wind Direction Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	353.0	333.5	254.9	225.7	155.8	59.3	10.1	230 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Oct-07	237	264	245	279	244	239	254	223	234	238	250	257	250	250	257	261	253	247	250	289	269	262	266	265	253	WSW	
2-Oct-07	255	228	225	226	227	236	227	222	227	242	240	249	244	256	253	247	245	229	237	236	222	212	214	214	235	SW	
3-Oct-07	215	228	241	283	276	276	302	253	223	226	229	235	254	262	278	289	284	266	278	256	214	219	235	241	247	WSW	
4-Oct-07	224	224	243	220	269	244	166	192	199	223	233	230	232	237	65	103	145	95	52	60	37	44	94	92	179	S	
5-Oct-07	91	83	83	79	84	79	62	66	66	61	53	62	67	77	93	93	92	89	100	91	67	56	66	68	78	ENE	
6-Oct-07	69	66	70	74	98	112	106	114	160	222	223	221	214	233	249	212	73	74	78	122	107	88	192	194	142	SE	
7-Oct-07	153	215	215	211	236	214	186	185	203	213	222	230	214	215	228	235	223	223	217	210	215	210	218	223	216	SW	
8-Oct-07	228	239	245	242	235	223	326	299	331	337	347	331	326	334	338	353	346	335	315	316	4	60	120	106	306	NW	
9-Oct-07	111	104	47	40	87	88	34	95	106	110	104	110	110	110	108	110	109	112	109	100	102	104	98	95	104	ESE	
10-Oct-07	108	102	103	102	104	94	68	98	4	337	177	154	137	44	136	91	89	105	111	99	174	176	235	236	112	ESE	
11-Oct-07	219	204	209	216	228	251	263	275	281	281	294	324	338	347	350	343	83	85	82	134	116	188	234	233	246	WSW	
12-Oct-07	218	233	189	101	253	215	217	193	123	51	98	104	313	350	31	42	40	9	1	6	50	15	244	340	11	N	
13-Oct-07	321	328	27	333	339	340	324	328	261	243	274	231	302	326	300	343	198	88	94	111	113	121	124	92	334	NNW	
14-Oct-07	81	102	82	39	360	347	18	65	153	145	146	181	203	206	201	204	189	170	143	132	133	119	122	156	164	SSE	
15-Oct-07	164	190	344	14	25	38	35	2	59	153	179	195	188	186	183	179	163	152	128	131	158	166	154	190	165	SSE	
16-Oct-07	178	231	205	138	110	109	136	156	157	175	212	187	202	198	195	204	189	207	236	217	111	279	244	252	192	SSW	
17-Oct-07	217	233	237	223	230	255	235	208	207	211	211	210	254	279	294	308	309	306	278	279	292	291	286	272	250	WSW	
18-Oct-07	277	277	273	277	247	166	188	182	225	232	238	255	252	234	232	228	252	270	201	205	270	186	148	163	236	SW	
19-Oct-07	196	204	206	208	217	233	228	218	208	213	210	215	210	215	248	251	248	240	233	231	245	252	230	237	223	SW	
20-Oct-07	243	239	231	239	232	244	253	260	296	252	273	313	328	312	316	315	307	310	297	304	328	357	263	263	284	WNW	
21-Oct-07	113	127	117	194	241	236	242	235	229	220	212	207	233	239	253	255	262	235	244	236	237	219	223	222	228	SW	
22-Oct-07	246	258	254	228	248	259	264	266	266	265	272	267	262	274	272	264	265	261	261	260	263	264	263	264	262	262	W
23-Oct-07	263	264	262	264	331	337	345	356	3	43	143	182	210	242	229	235	249	251	231	224	220	210	191	199	249	WSW	
24-Oct-07	228	236	238	226	216	205	209	215	213	214	216	221	230	232	234	232	223	211	237	247	238	224	340	349	228	SW	
25-Oct-07	348	348	353	347	310	287	271	274	285	300	284	269	301	227	249	22	47	52	71	115	127	116	2	357	339	NNW	
26-Oct-07	14	359	12	208	208	233	245	217	225	213	229	225	294	306	333	354	352	352	357	55	121	104	122	120	298	WNW	
27-Oct-07	114	117	114	91	88	82	227	212	198	193	186	203	200	201	194	190	191	193	205	228	228	265	265	273	201	SSW	
28-Oct-07	260	245	238	250	260	279	284	342	72	221	218	203	199	188	128	112	98	78	134	216	232	230	227	224	227	SW	
29-Oct-07	241	247	232	233	222	216	198	208	222	223	233	242	241	240	243	225	225	223	239	258	254	261	247	286	235	SW	
30-Oct-07	325	326	313	311	335	301	265	273	281	284	296	313	311	299	299	262	288	292	261	238	182	232	238	243	292	WNW	
31-Oct-07	243	186	187	211	232	234	200	217	237	253	232	220	236	253	254	256	239	248	236	235	236	235	236	235	234	SW	
Hourly Avg	226	232	229	229	239	235	239	224	227	228	228	228	237	243	248	245	229	218	217	218	216	219	228	233			



PAS - Crescent Heights Standard Deviation of Wind Direction Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	62.0	46.1	18.7	10.1	6.9	4.6	4.0

Status Flag Characters

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

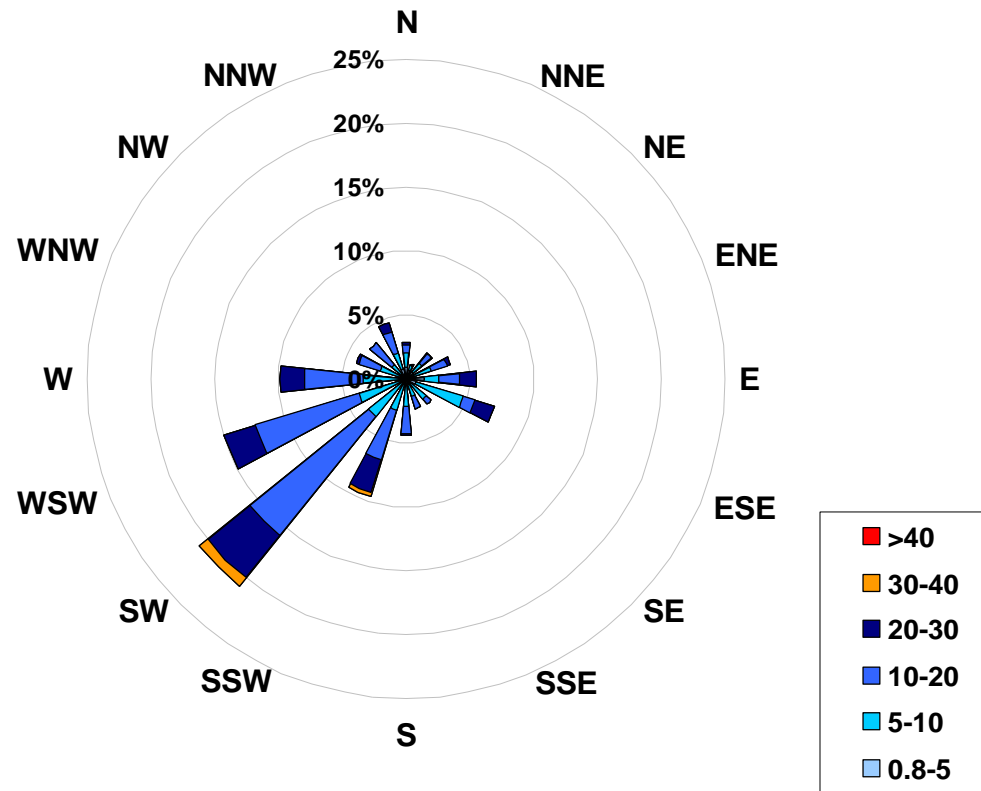
Day Mountain Standard Time

Hour Start	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
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-Oct-07	7	21	36	51	25	33	22	8	11	9	8	6	8	9	8	9	8	6	11	15	19	5	6	5		50.7	
2-Oct-07	5	10	7	4	4	7	12	8	7	8	7	8	9	8	7	7	9	12	5	8	5	5	4	4		11.9	
3-Oct-07	4	8	8	13	11	16	13	14	21	8	10	12	11	12	15	16	10	11	24	17	10	9	8	14		24.0	
4-Oct-07	10	8	35	18	42	70	47	38	9	10	7	18	23	60	48	43	54	20	7	6	12	9	8	6		69.9	
5-Oct-07	5	5	6	6	5	11	12	11	11	7	6	7	7	7	7	8	6	6	10	10	9	7	9	7		12.0	
6-Oct-07	8	8	12	9	10	10	10	13	29	18	15	13	23	23	42	51	26	10	7	7	9	61	11	21		61.3	
7-Oct-07	32	9	13	26	18	11	8	7	5	7	7	9	9	10	9	11	5	5	5	4	4	5	4	5		32.2	
8-Oct-07	4	8	8	5	36	34	32	12	12	9	9	11	18	11	14	15	13	9	10	56	62	49	16	22		61.7	
9-Oct-07	13	56	26	22	24	33	8	9	7	8	9	7	7	6	6	6	4	5	5	6	6	5	6	6		55.8	
10-Oct-07	5	13	11	10	52	7	37	42	28	18	21	22	28	46	23	29	21	21	24	20	29	12	25	12		52.0	
11-Oct-07	7	5	5	5	7	10	7	7	6	11	15	17	16	19	12	20	28	8	9	14	6	17	9	9		28.2	
12-Oct-07	4	32	37	18	27	10	19	31	58	32	29	47	73	51	19	6	5	5	3	16	28	23	55	41		73.3	
13-Oct-07	52	41	40	40	15	48	37	12	63	28	27	33	23	30	43	44	65	41	9	6	5	7	8	21		64.8	
14-Oct-07	10	18	30	19	15	19	15	16	25	65	62	41	19	11	13	10	11	8	7	8	6	7	11	33		65.5	
15-Oct-07	10	48	12	10	23	18	26	10	68	18	11	9	10	11	9	10	8	9	10	14	14	27	33	53		67.9	
16-Oct-07	45	40	49	36	20	42	49	36	19	15	25	49	17	17	17	8	16	43	24	16	19	27	14	18		49.2	
17-Oct-07	10	5	11	11	16	24	13	7	6	6	8	9	15	14	14	12	8	8	9	23	18	13	10	8		23.7	
18-Oct-07	6	5	6	6	22	41	21	38	8	10	20	25	16	19	13	12	7	10	16	11	18	39	27	18		40.9	
19-Oct-07	4	5	4	5	8	17	16	7	6	5	7	8	7	9	10	8	8	7	5	4	6	8	9	8		16.8	
20-Oct-07	6	4	5	11	23	7	10	30	23	20	17	12	13	11	13	10	9	7	10	7	5	52	13	35		51.6	
21-Oct-07	44	27	14	15	8	7	10	6	6	11	7	14	17	17	19	13	24	8	10	11	7	7	7	4		43.8	
22-Oct-07	7	6	6	6	7	6	6	6	7	6	7	9	11	9	8	5	6	6	5	4	6	5	5	5		10.9	
23-Oct-07	5	5	5	7	8	6	26	23	42	19	37	52	50	15	20	9	8	9	10	5	4	7	5	8		51.8	
24-Oct-07	6	4	8	10	5	6	5	4	5	6	6	5	5	5	4	5	4	5	10	11	13	8	18	4		17.6	
25-Oct-07	5	6	7	21	64	19	27	11	9	12	19	30	36	54	49	12	8	10	8	12	14	37	5	19		63.6	
26-Oct-07	30	9	24	13	10	10	31	18	12	14	9	12	19	15	9	6	5	4	12	8	17	7	11	8		31.3	
27-Oct-07	11	5	10	19	13	23	20	9	6	6	8	9	9	9	8	9	6	5	6	16	28	13	7	9		28.3	
28-Oct-07	8	6	6	7	12	5	39	44	41	30	25	17	27	18	12	6	24	33	40	4	4	5	4	8		43.8	
29-Oct-07	14	12	8	6	6	7	13	11	23	19	8	11	7	6	6	11	5	4	8	5	6	7	24	36		36.2	
30-Oct-07	7	6	9	8	5	13	9	6	8	8	12	12	12	14	16	11	11	8	5	10	37	24	10	15		37.4	
31-Oct-07	33	17	8	57	17	44	39	6	22	14	6	5	9	9	10	8	11	12	5	8	6	6	4	4		56.9	

Hourly Max	52	56	49	57	64	70	49	44	68	65	62	52	73	60	49	51	65	43	40	56	62	61	55	53
------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----



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



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	57
5	to	10	233
10	to	20	326
20	to	30	120
30	to	40	8
	>	40	0
Total Non-Zero Values			744



PALLISER AIRSHED SOCIETY

Passive Monitoring – October 2007

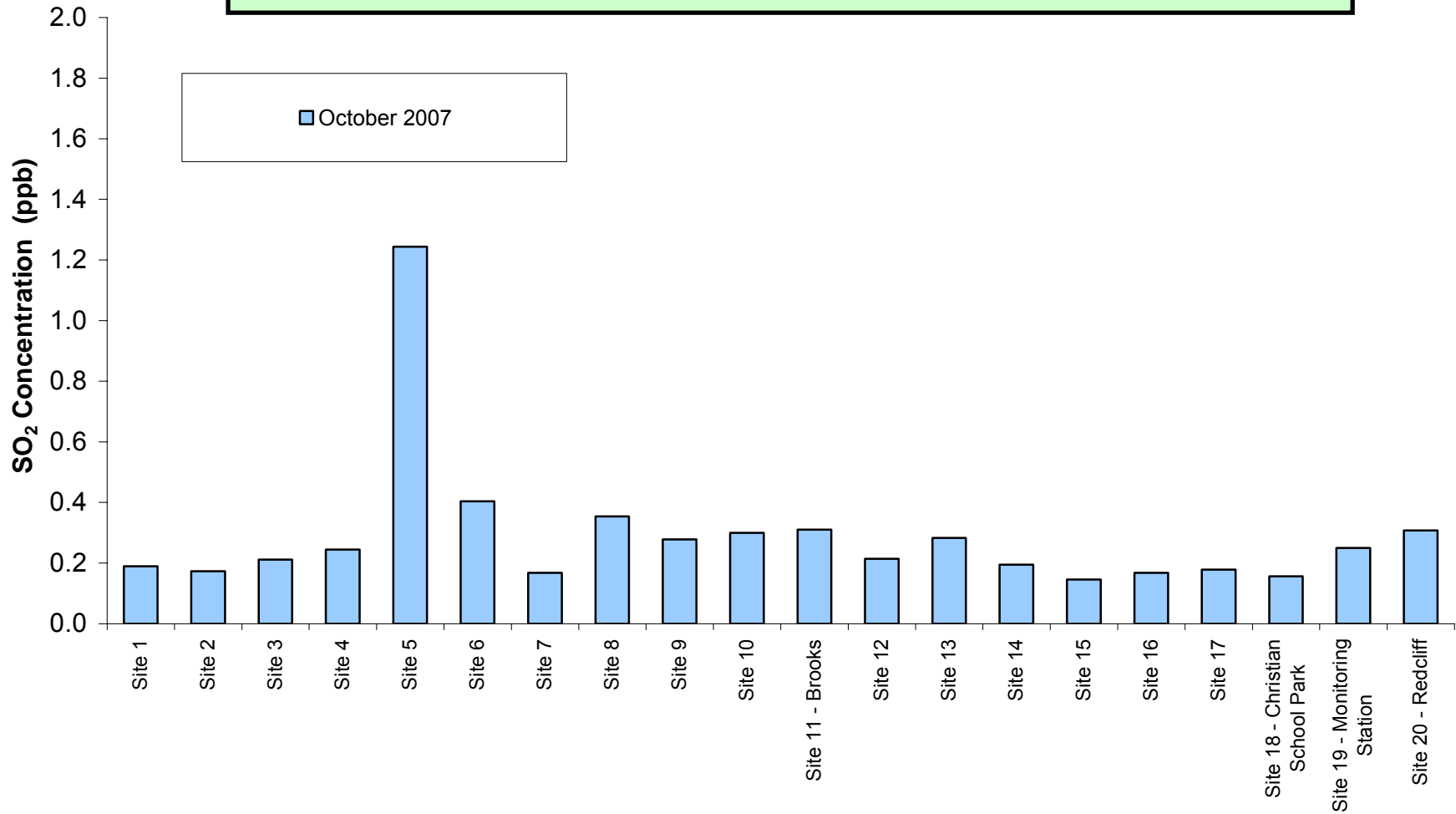


Palliser Airshed Society - Palliser Passive Stations for October 2007 Palliser Passive Monitoring Expansion

Station Number	Station	SO2 ppb	O3 ppb	NO2 ppb	Location		Elevation meter
	Name				Easting	Northing	
Duplicates							
2a	Site 2	0.1	26.9	1.9			
2b	Site 2	0.2	25.8	1.6			
12a	Site 12	0.2	24.8	2.3			
12b	Site 12	0.2	23.1	2.7			
1	Site 1	0.2	29.1	2.5	562434	5583139	719
2	Site 2	0.2	26.4	1.7	565416	5616277	
3	Site 3	0.2	28.7	1.4	533794	5675379	779
4	Site 4	0.2	25.7	1.8	554771	5717338	718
5	Site 5	1.2	25.9	2.0	494218	5715862	735
6	Site 6	0.4	25.1	2.9	433039	5673766	818
7	Site 7	0.2	24.1	2.7	400808	5620907	780
8	Site 8	0.4	27.7	2.7	498530	5621839	747
9	Site 9	0.3	24.8	3.7	487701	5591707	763
10	Site 10	0.3	22.8	3.8	478223	5613583	774
11	Site 11 - Brooks	0.3	23.6	7.0	439773	5604548	736
12	Site 12	0.2	24.0	2.5	450287	5587201	726
13	Site 13	0.3	28.7	1.7	464279	5548934	
14	Site 14	0.2	29.7	1.1	493206	5521201	870
15	Site 15	0.1	31.5	N/A	465824	5485742	874
16	Site 16	0.2	31.2	0.6	503827	5446942	903
17	Site 17	0.2	25.0	0.6	557668	5452307	942
18	Site 18 - Christian School Park	0.2	22.9	6.3	526575	5538135	709
19	Site 19 - Monitoring Station	0.3	25.3	8.1	522813	5544137	714
20	Site 20 - Redcliff	0.3	25.9	4.0	517479	5546059	725

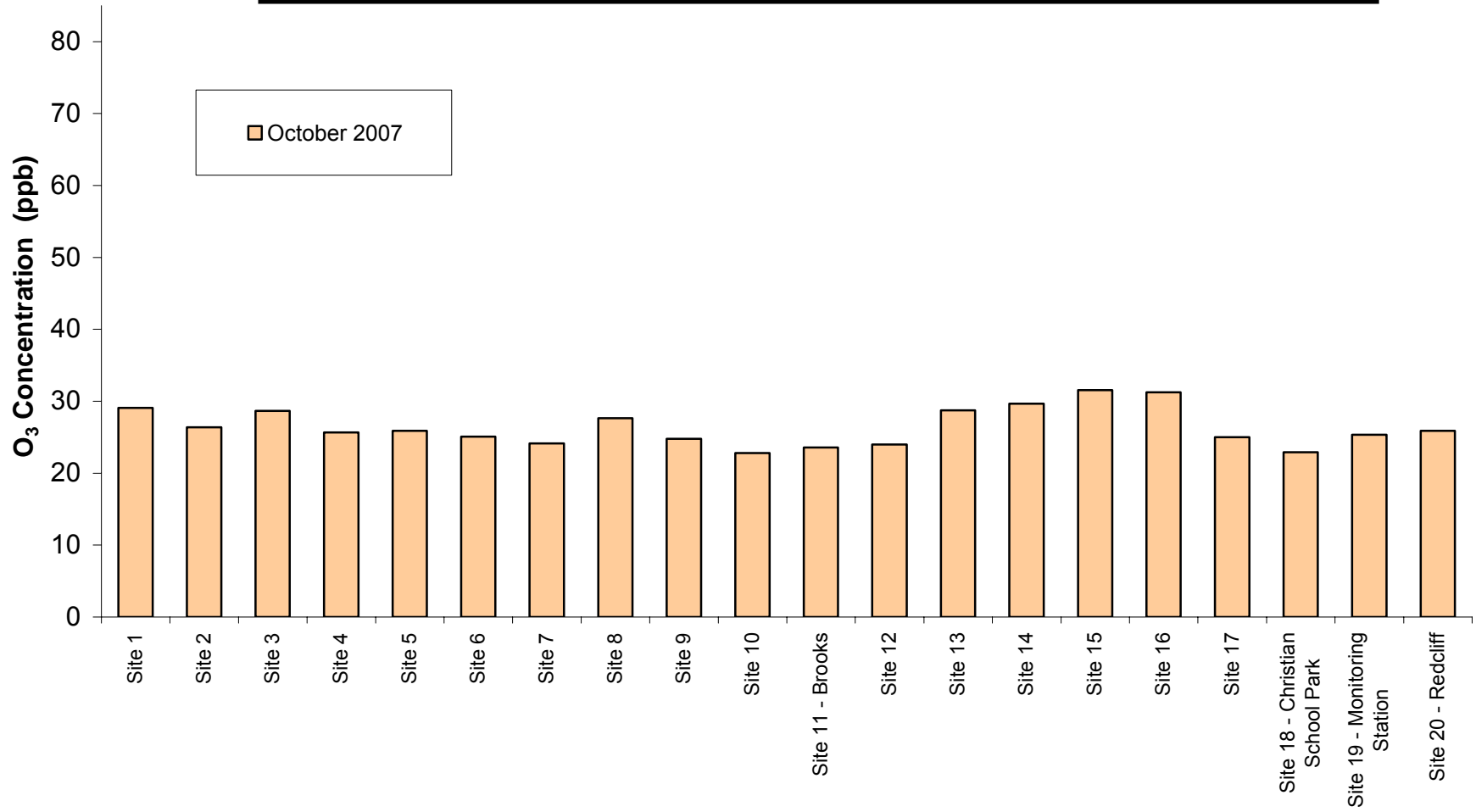


Alberta Ambient Air Quality Objective - Annual SO₂ Objective is 11 ppb



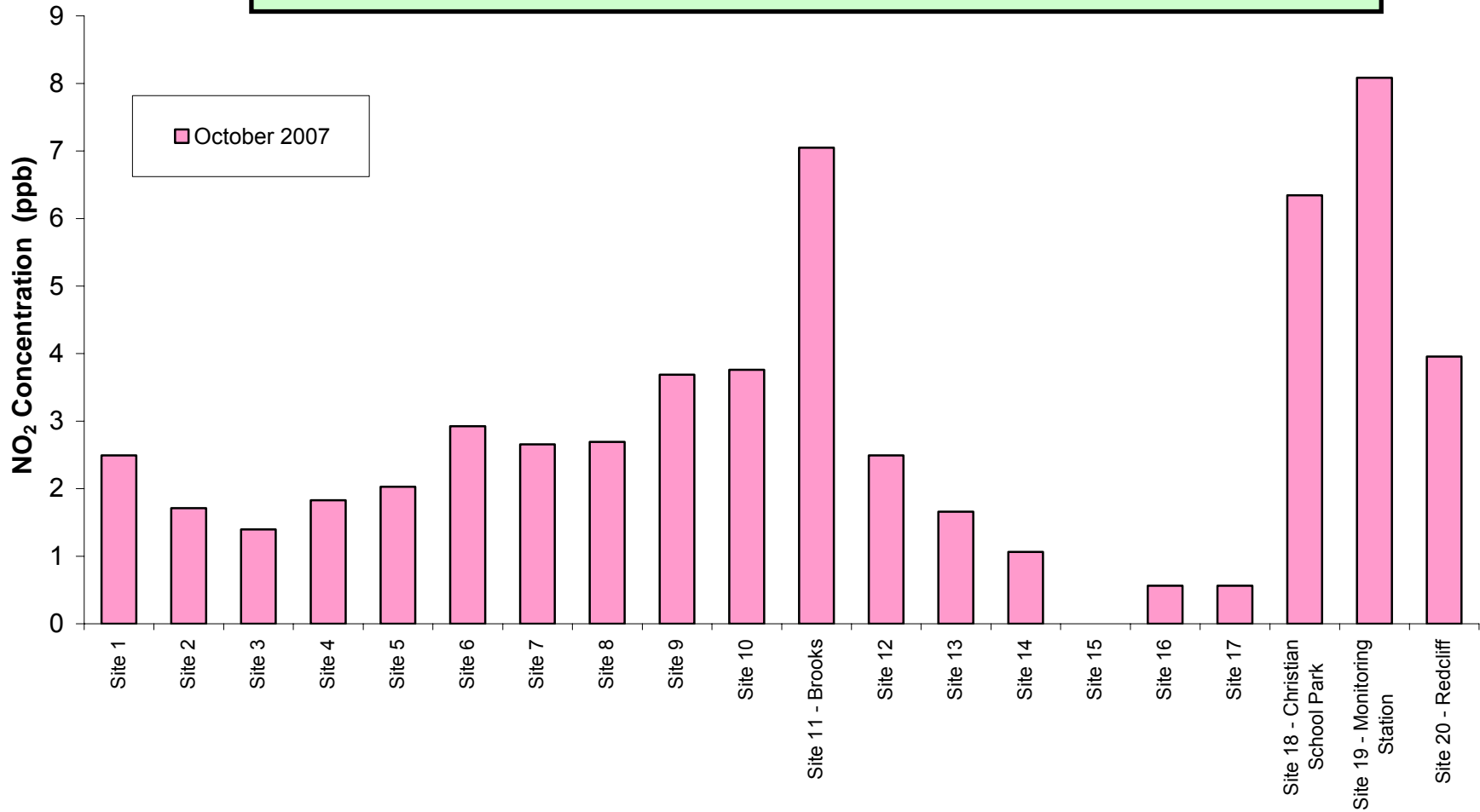


Alberta Ambient Air Quality Objective - No Annual O₃ Objective





Alberta Ambient Air Quality Objective - Annual NO₂ Objective is 32 ppb



Palliser Airshed Society October 2007 - Calibration Reports

Crescent Heights Station: O₃, NO_x, NO, NO₂, THC, CO and TEOM

Calibration Report

Parameter 03
Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	October 30, 2007	Previous Calibration	September 12, 2007
Station Number	101	Station Location	Crescent Heights
Reason:	Routine	Calibration	Removal
			Other:
Start Time (MST)	7:00	End Time (MST)	9:40
Barometric Pressure	27.4 inches Hg	Station Temperature	22.0 Deg C
Calibrator	Envionics 6103	Serial Number	2844
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 10 volt	DACS channel #	5
	<u>Before</u>		<u>After</u>
Calculated slope	1.029755	Calculated slope	0.946123
Calculated intercept	3.927812	Calculated intercept	1.601577
Analyzer make	TEI 49i	Analyzer serial #	713021144

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
O3 Background	0.6	ppb	0.6	ppb
O3 Coeff	1.099		1.099	
CellA	86926.0	Hz	86926.0	Hz
CellB	116655.0	Hz	116655.0	Hz
Pressure	699.1	mmHg	699.1	mmHg
Cell A Flow	724.0	ccm	724.0	ccm
Cell B Flow	714	ccm	714	ccm
Bench	32.2	Deg C	32.2	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)
4997	0.0	0.0	0.2	N/A
4997	300.0	268.6	284.2	0.9450
4997	200.0	183.5	190.0	0.9656
4997	100.0	86.8	88.3	0.9828
4997	0.0	0.0	0.2	0.0000
4997	300.0	268.6	281.1	0.9555
Average Correction Factor				0.9645

Calculated value of As Found Response: 293.2 ppm Percent Change of As Found: 9.1%

	before calibration		after calibration	
Auto zero	-3.4	ppb	4.4	ppb
Auto span	370.3	ppb	295.3	ppb

Notes: No adjustments made... Calculated values

Calibration Performed By: Lenin Flores

Calibration Summary

Parameter **O3**
 Air Monitoring Network **Palliser Airshed**

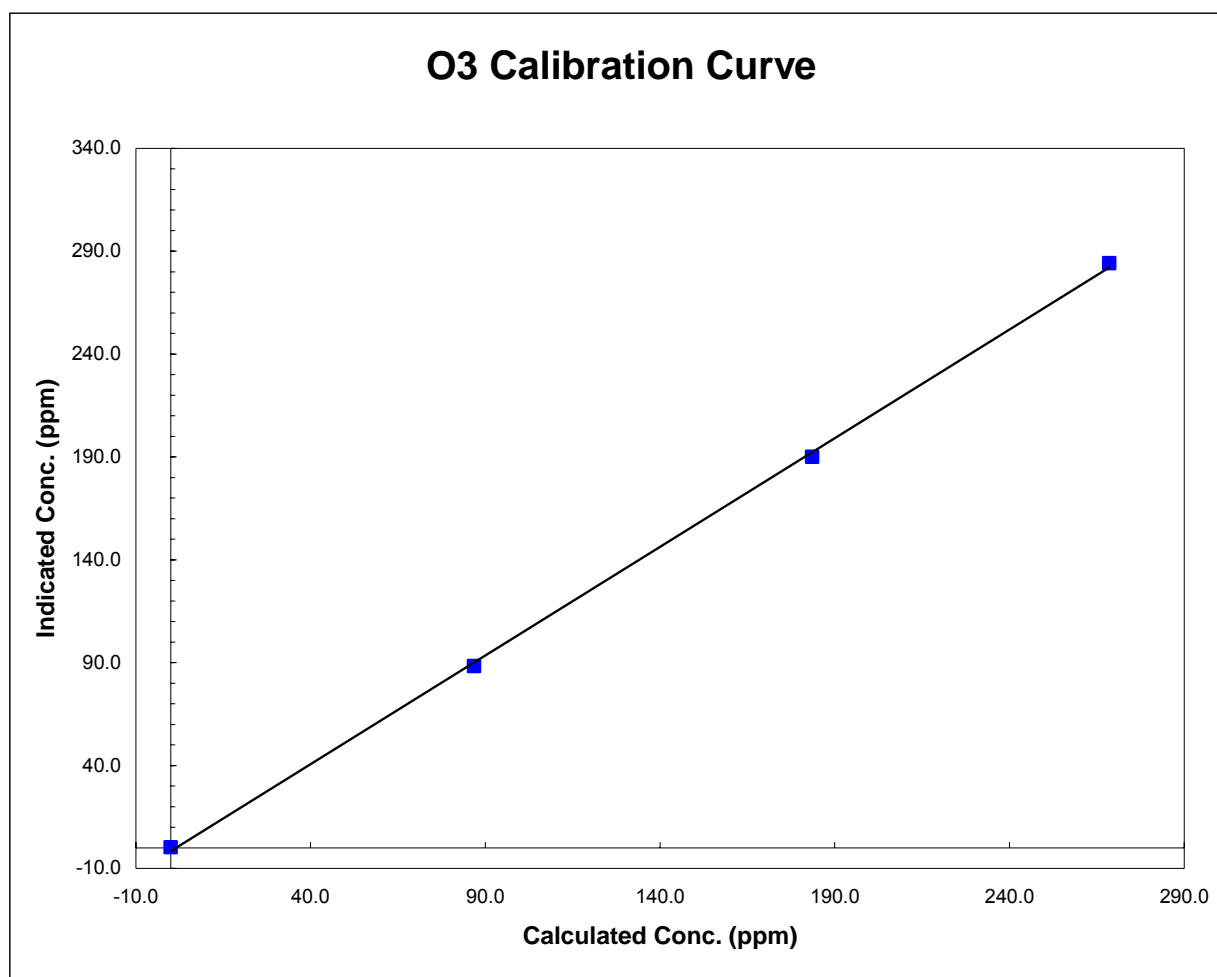


Station Information

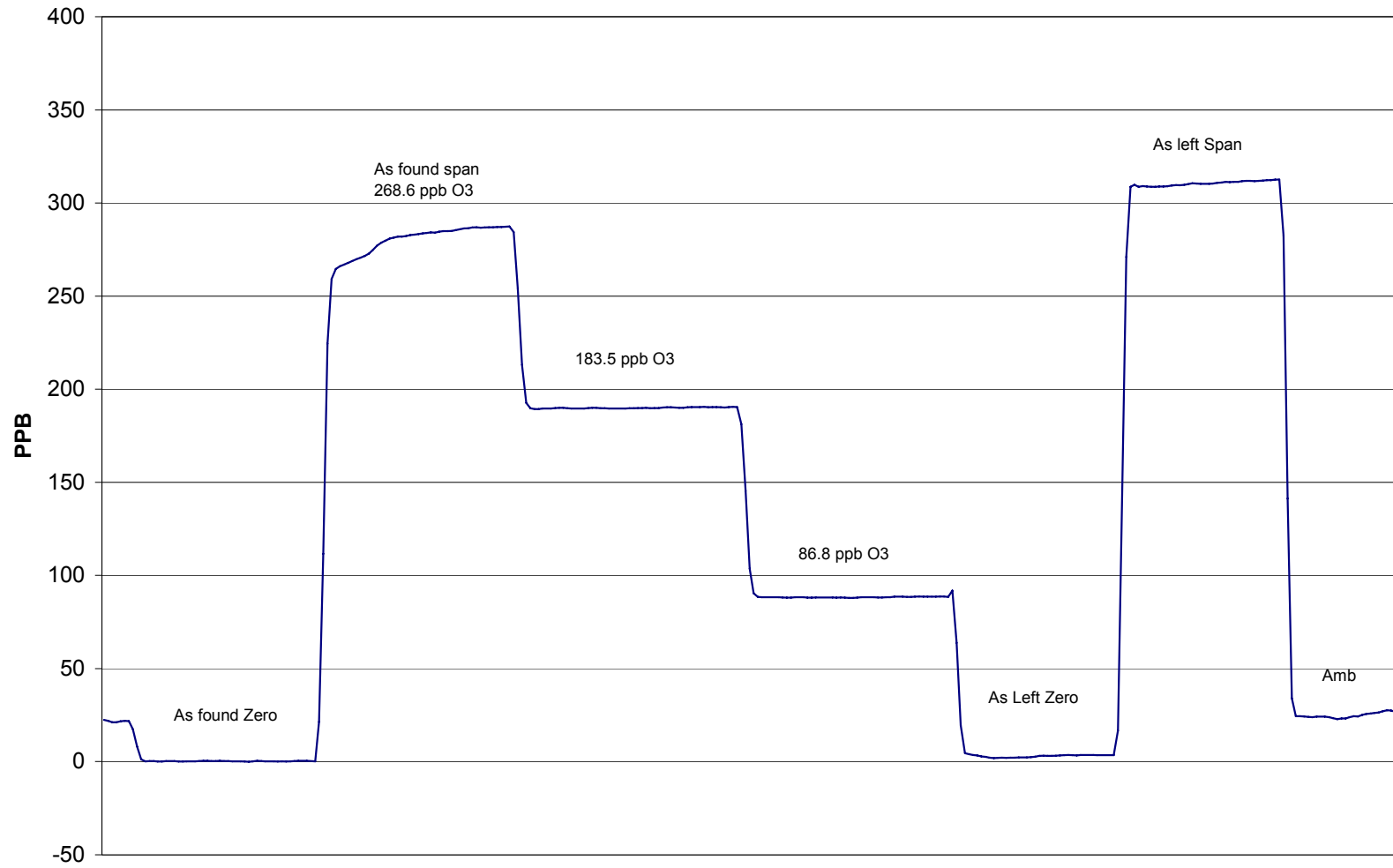
Calibration Date	October 30, 2007	Previous Calibration	September 12, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	7:00	End Time (MST)	9:40
Analyzer make/model	TEI 49i	Analyzer serial #	713021144

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
268.6	284.2	0.9450	Correlation Coefficient	0.999654
183.5	190.0	0.9656		
86.8	88.3	0.9828		
0.0	0.2	N/A	Slope	0.946123
			Intercept	1.601577



Crescent Heights - O3 Calibration



October 30, 2007

Calibration Report

Parameter
Air Monitoring Network

NOx-NO-NO₂
Palliser Airshed



Station Information

Calibration Date October 29, 2007 Previous Calibration September 12, 2007
Station Number 101 Station Location Crescent Heights

Reason: Routine Installation Removal Other: _____

Start Time (MST) 10:00 End Time (MST) 14:57
Barometric Pressure 27.4 inches Hg Station Temperature 21.5 Deg C
Calibrator EnviroNics 6103 Serial Number 2844
NO Cal Gas Conc 48.9 ppm Cal Gas Expiry Date 5-Dec-07
NOx Cal Gas Conc 48.9 ppm Cal Gas Serial # LL-50114

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45270

Parameter		NO2	NOx	NO
Before	Data Slope	1.012615	1.012981	1.010324
	Data Offset	1.182718	-1.615911	-1.162354
After	Data Slope	1.003328	1.002476	1.005770
	Data Offset	-0.398505	-0.404648	1.440454
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	-0.1	mV	-0.1	mV
NOx background	0.8	mV	0.8	mV
NO coefficient	2.406		2.701	
NOx coefficient	2.468		2.786	
Chamber Temp	50.0	Deg C	50.0	Deg C
Cooler Temp	7.1	Deg C	7.0	Deg C
Azero	42.3		41.8	
Perm Temp	40.2	Deg C	40.2	Deg C
Pressure	3.9	inches Hg	3.8	inches Hg
Sample Flow	455.0	ccm	457.0	ccm

Notes: Adjusted Span. As found was 11% lower than expected. Not surprising though since maintenance was performed on this analyzer and a drift was expected. The Span adjustment, however caused the final span to be >500ppb, I adjusted the IZS Temp to 37 (from 40) this will give me a lower response on the internal Span tonight...

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

Palliser Airshed



Station Information

Calibration Date: October 29, 2007

Station Location: Crescent Heights

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NOx Correction factor	NO Correction factor
zero	4997	0.00	0.0	0.0	0.0	0.5	-1.6	0.1	N/A	N/A
1	4997	39.96	387.9	387.9	0.0	387.2	384.1	1.4	1.0019	1.0101
2	4997	19.96	194.5	194.5	0.0	195.0	192.5	0.3	0.9974	1.0108
3	4997	9.95	97.2	97.2	0.0	96.9	95.1	-0.5	1.0032	1.0215
AFZ	4997	0.00	0.0	0.0	0.0	0.5	-1.6	0.1	0.0000	0.0000
AFS	4997	39.96	387.9	387.9	0.0	346.3	344.1	0.8	1.1201	1.1275
								Average Correction Factor	1.0008	1.0141

As Found Concentrations

NO_x= 344.3

NO= 344.6

As Found Percent Change

NO_x= -11.3%

NO= -11.2%

GPT Calibration Data

Dilution Flow 4997 ccm Source Gas Flow 39.96 ccm

O ₃ Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NOx Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency	
0	375.3	371.7	3.6	374.8	368.1	0.1	N/A	N/A	N/A	N/A	
300	385.5	116.9	268.6	385.0	114.8	267.9	1.0014	1.0183	1.0027	99.7%	
200	386.1	202.6	183.5	385.6	200.0	183.5	1.0014	1.0130	1.0002	100.0%	
100	379.6	292.9	86.8	379.1	289.8	87.2	1.0014	1.0107	0.9947	100.5%	
							Average Correction Factor	1.0014	1.0140	0.9992	100.1%

AIC Data

Parameter	Previous calibration				Current calibration			
	NOx	NO ₂	NO		NOx	NO ₂	NO	
Auto zero	0.2	-2.4	-0.6	ppb	-0.6	-0.6	-0.2	ppb
Auto span	432.3	418.3	8.2	ppb	341.8	332.4	9.3	ppb

Calibration Performed By: Lenin Flores

Calibration Summary

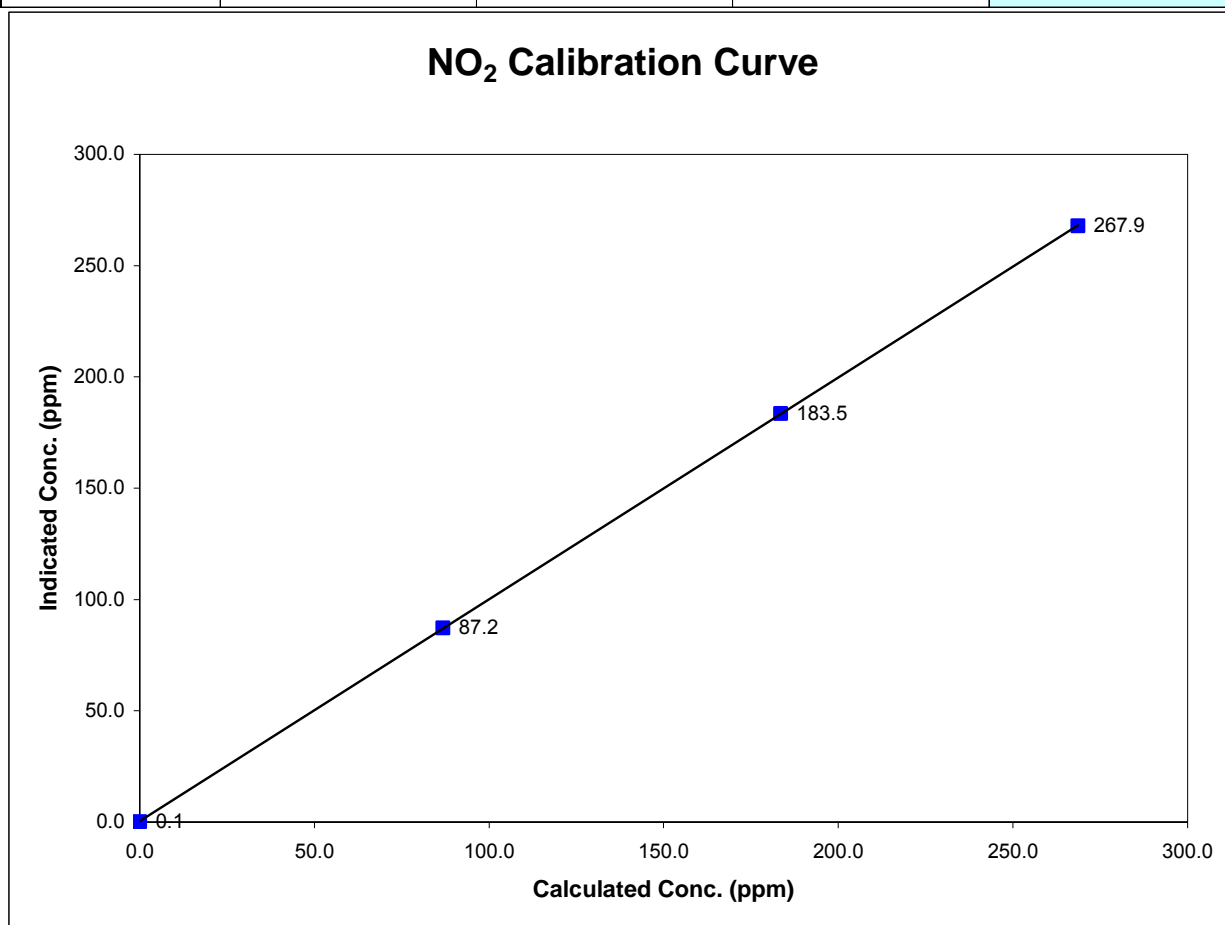
Parameter **NO₂**Air Monitoring Network **Palliser Airshed**

Station Information

Calibration Date	October 29, 2007	Previous Calibration	September 12, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:00	End Time (MST)	14:57
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	0.1	0.0000	Correlation Coefficient	0.999993
268.6	267.9	1.0027		
183.5	183.5	1.0002		
86.8	87.2	0.9947		
			Slope	1.003328
			Intercept	-0.398505



Calibration Summary

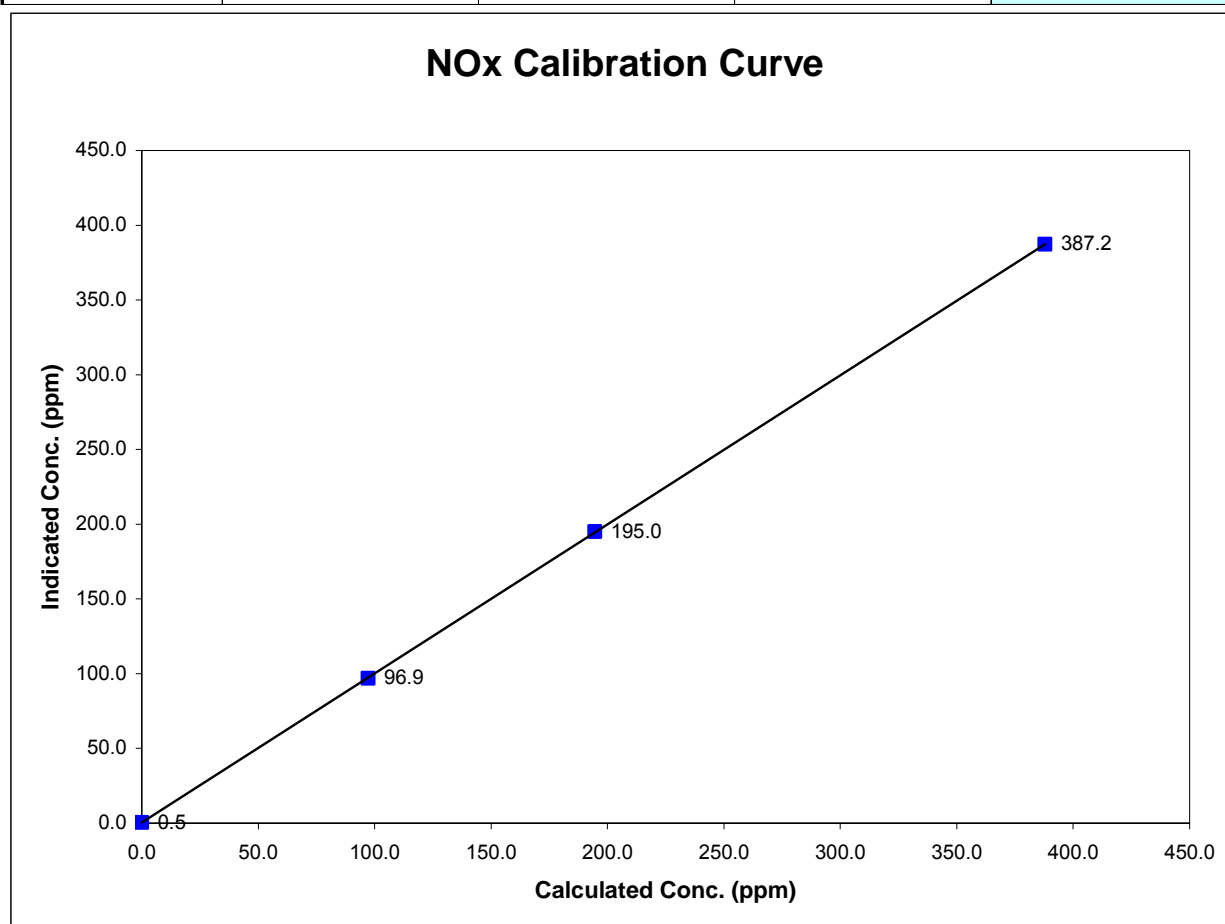
Parameter **NO_x**Air Monitoring Network **Palliser Airshed**

Station Information

Calibration Date	October 29, 2007	Previous Calibration	September 12, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:00	End Time (MST)	14:57
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	0.999993
387.9	387.2	1.0019		
194.5	195.0	0.9974	Slope	1.002476
97.2	96.9	1.0032		
			Intercept	-0.404648



Calibration Summary

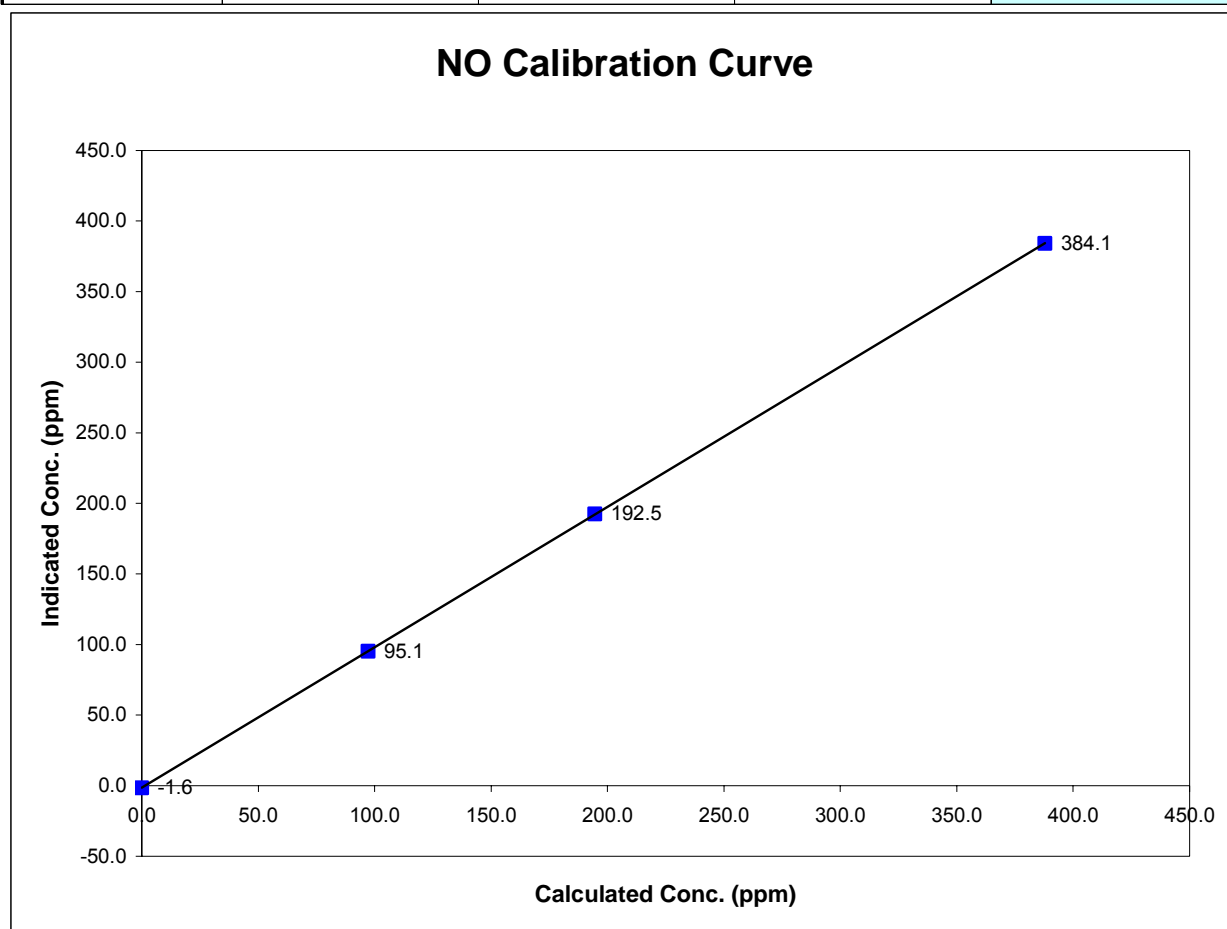
Parameter **NO**Air Monitoring Network **Palliser Airshed**

Station Information

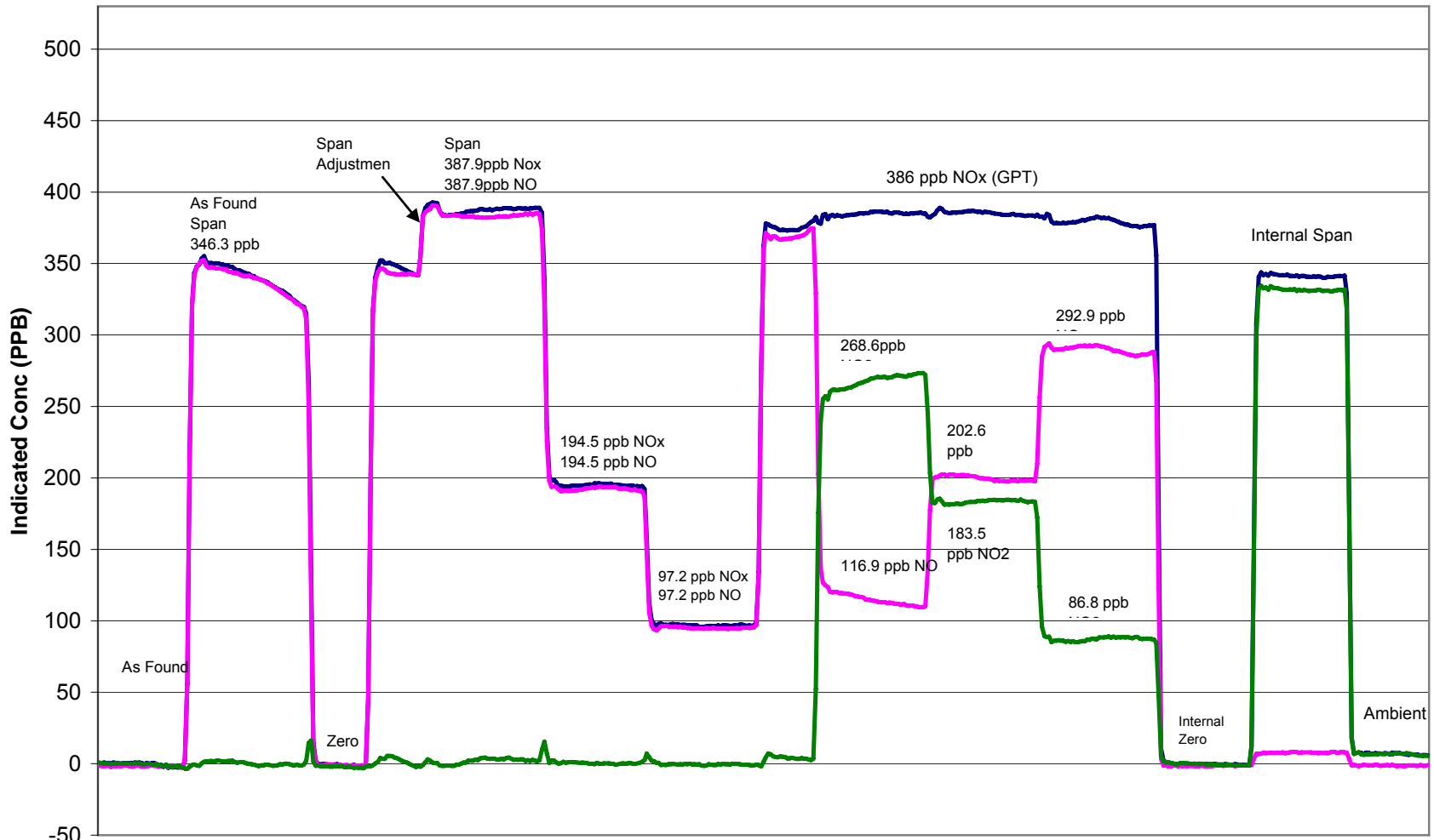
Calibration Date	October 29, 2007	Previous Calibration	September 12, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:00	End Time (MST)	14:57
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-1.6	N/A	Correlation Coefficient	0.999996
387.9	384.1	1.0101		
194.5	192.5	1.0108		
97.2	95.1	1.0215		
			Slope	1.005770
			Intercept	1.440454



Crescent Heights - NOx Calibration



October 29, 2007

Calibration Report

Parameter **THC**
Air Monitoring Network **Palliser Airshed**



Station Information

Calibration Date	October 29, 2007	Previous Calibration	September 12, 2007
Station Number	101	Station Location	Crescent Heights
Reason:	Routine	Install	Removal
			Other:
Start Time (MST)	13:50	End Time (MST)	16:10
Barometric Pressure	27.5 inches Hg	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2844
Cal Gas Concentration	708 ppm CH ₄ / 299 ppm C ₃ H ₈	Cal Gas Expiry Date	1/25/2009
Cal Gas CH ₄ equiv	1530.25 ppm	Cal Gas Cylinder #	LL-41839
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
Calculated slope	1.000383	Calculated slope	0.988037
Calculated intercept	0.001958	Calculated intercept	0.112221
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	5.74	PSI
THC span counts	12605	raw	12328	raw
THC zero counts	1370	raw	1471	raw
V Bias	-327	Volts	-326	Volts

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4995	0.00	0.00	-0.09	N/A
4995	79.85	24.08	24.28	0.9916
4995	39.94	12.14	12.12	1.0018
4995	9.99	3.05	2.98	1.0232
zero	0.00	0.00	-0.09	As Found Zero
4995	79.85	24.08	24.28	As Found Span
Average Correction Factor				1.0055

Calculated value of As Found Response: 24.386 ppm Percent Change of As Found: -1.3%

	before calibration		after calibration	
Auto zero	-0.06	ppm	0.00	ppm
Auto span	18.57	ppm	20.94	ppm

Notes: No adjustments made

Calibration Performed By: Lenin Flores

Calibration Summary

Parameter **THC**
 Air Monitoring Network **Palliser Airshed**

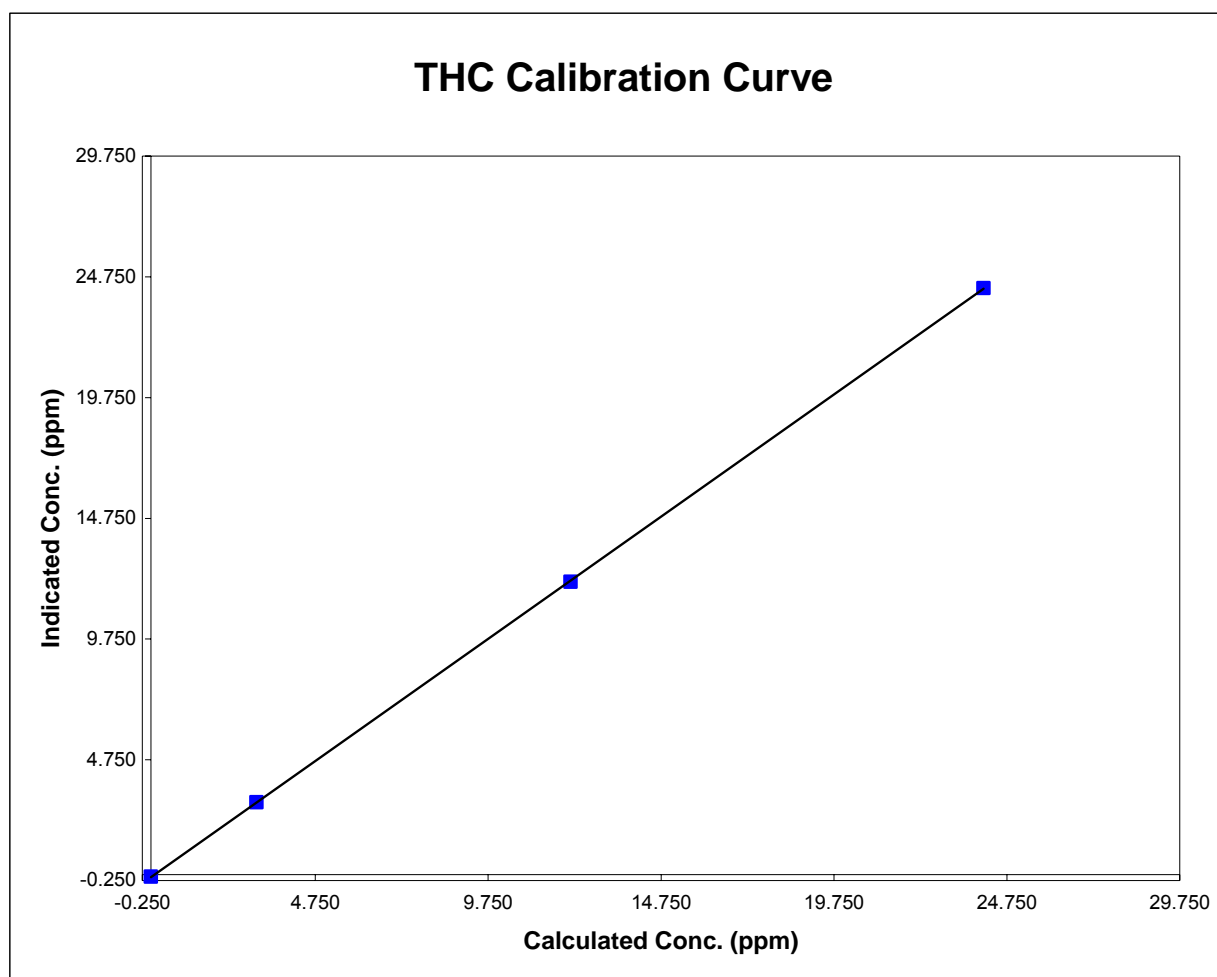


Station Information

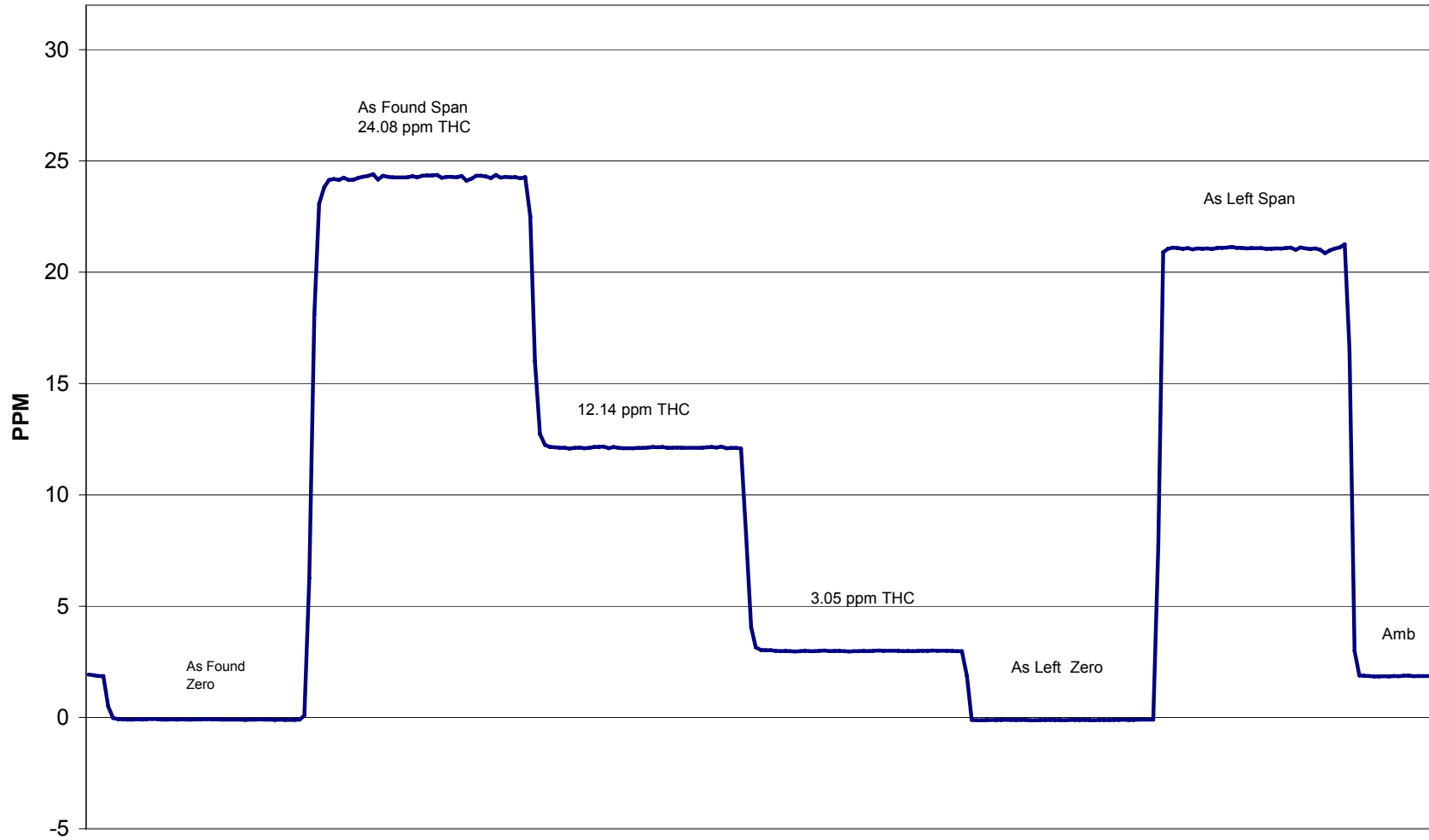
Calibration Date	October 29, 2007	Previous Calibration	September 12, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	13:50	End Time (MST)	16:10
Analyzer make/model	TEI model 51C-LT	Analyzer serial #	407505596

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.093	N/A		
24.078	24.282	0.9916	Correlation Coefficient	0.999988
12.139	12.117	1.0018		
3.053	2.984	1.0232	Slope	0.988037
			Intercept	0.112221



Crescent Heights - THC Calibration



October 29, 2007

Calibration Report



Parameter CO
 Air Monitoring Network Palliser

Station Information

Calibration Date	October 29, 2007	Previous Calibration	September 11, 2007
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)	15:24	End Time (MST)	18:51
Barometric Pressure	27.40 in Hg	Station Temperature	22.0 Deg C
Calibrator	Envionics 6103	Serial Number	2844
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	0.997565	Calculated slope	0.998623
Calculated intercept	-0.613590	Calculated intercept	-0.010323
Analyzer make	TEI Model 48C	Analyzer serial #	436609887

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO coefficient	1.080		1.080	
CO bkg setting	1.204		1.202	
Lamp ratio	1.142139		1.141572	
Lamp intensity	199157	Hz	199242	Hz
Sample Flow	1.011	LPM	1.011	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)
4996	0.00	0.00	0.01	N/A
4996	69.89	41.36	41.42	0.9986
4996	39.94	23.78	23.84	0.9974
4996	9.98	5.98	5.98	0.9986
4996	0.00	0.00	0.90	0.0000
4996	69.89	41.36	43.03	0.9612
Average Correction Factor				0.9982

Calculated value of As Found Response: 41.414 ppm Percent Change of As Found: -0.1%

	before calibration		after calibration	
Auto zero	-0.07	ppm	-0.03	ppm
Auto span	19.20	ppm	19.28	ppm

Notes: Adjusted Zero and Span

Calibration Performed By: Lenin Flores

Calibration Summary

Parameter **CO**

Air Monitoring Network **Palliser**

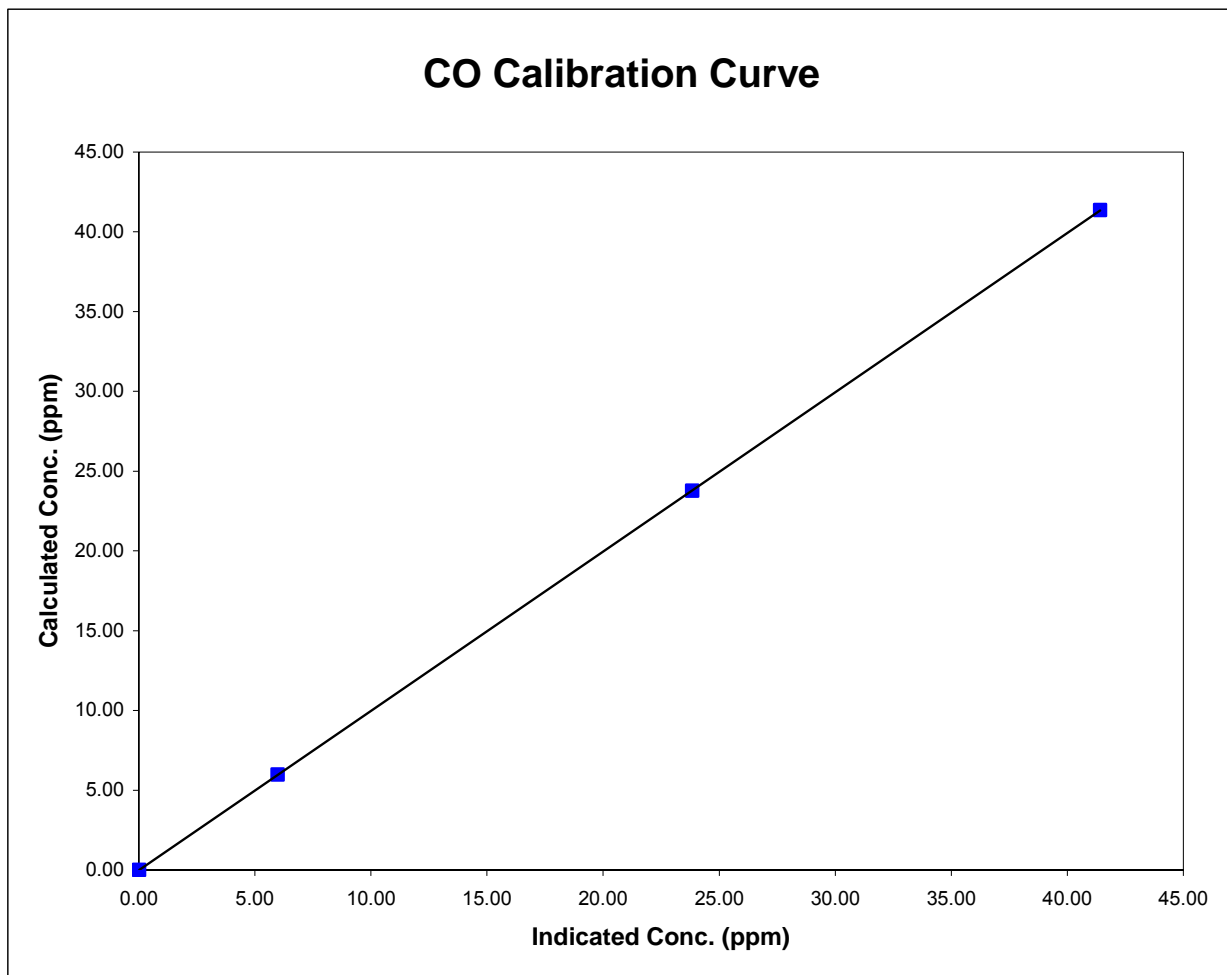


Station Information

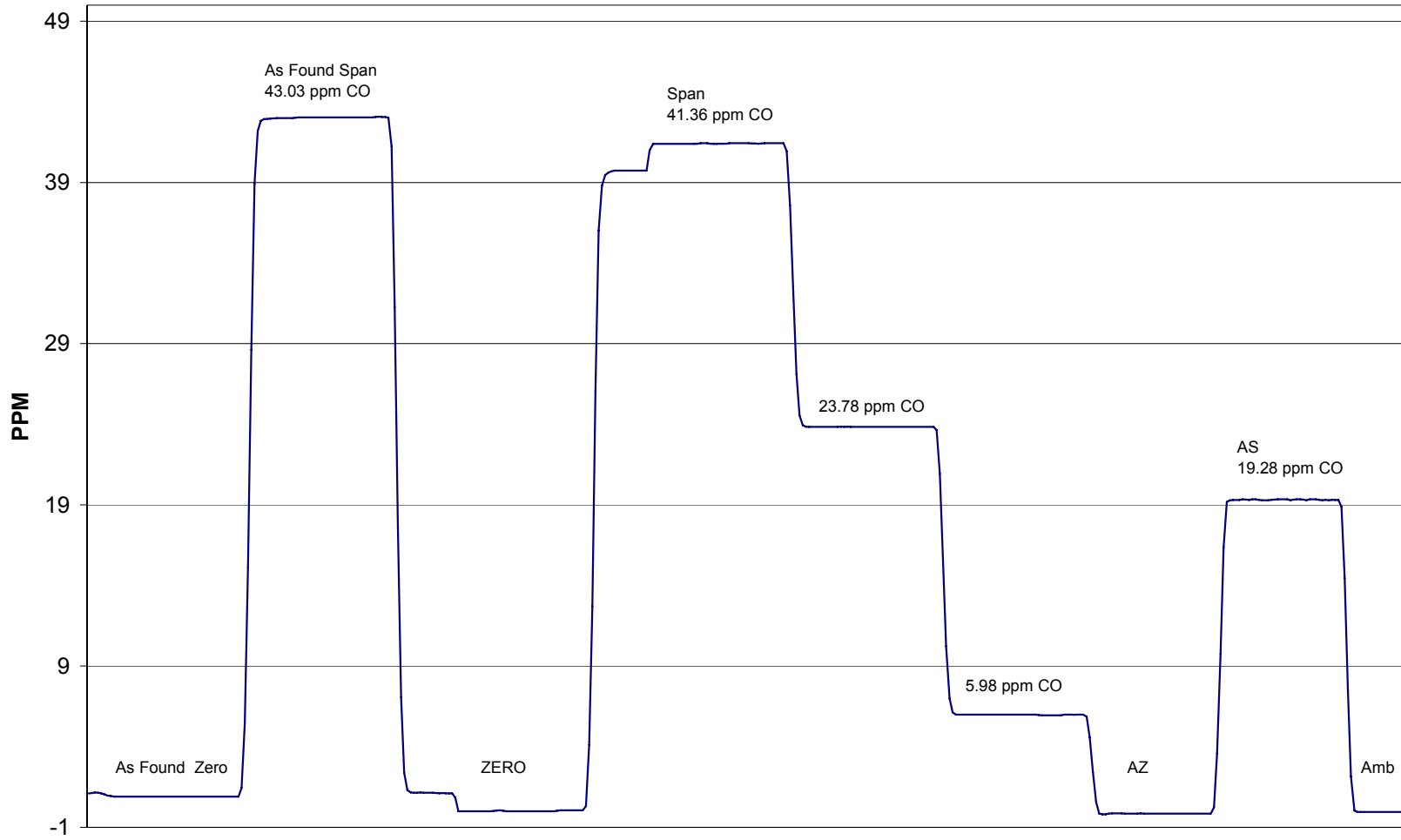
Calibration Date	October 29, 2007	Previous Calibration	September 11, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	15:24	End Time (MST)	18:51
Analyzer make/model	TEI Model 48C	Analyzer serial #	436609887

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.00	0.01	N/A		
41.36	41.42	0.9986	Correlation Coefficient	0.999999
23.78	23.84	0.9974		
5.98	5.98	0.9986	Slope	0.998623
			Intercept	-0.010323



Crescent Heights - CO Calibration



October 29, 2007

Calibration Report



Parameter **PM2.5**

Air Monitoring Network **Palliser Airshed**

Station Information

Calibration Date	October 30, 2007	Previous Calibration	September 28, 2007
Station Number	1	Station Location	Crescent Heights
Reason:	Routine	Install	Removal
			Other:
Start Time (MST)	7:37	End Time (MST)	8:50
Barometric Pressure	0.917 ATM	Station Temperature	21.0 Deg C
Flow Calibrator	BIOS Drycal Definer 220	Serial Number	111860
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15
	Before		After
DACS Scale High	450	DACS slope	450
DACS Scale Low	-50	DACS intercept	-50

Analyzer Information

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

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.65	SLPM	13.65	SLPM
Filter Load	45%	%	23%	%
Ko Factor	NA		NA	
Temperature	2.3	Deg C	4.2	Deg C
Pressure	0.917	ATM	0.917	ATM

Calibration Data

Parameter	Set Point	TEOM Reading (as found)	Tolerance	TEOM Reading (after adjustments)
zero flow - main	0.0	0.00	0.00	0.00
zero flow - auxillary	0.0	0.02	0.01	-0.01
flow recovery - main	45 - 60 Seconds	33.0	45 - 60 Seconds	33.0
flow recovery - aux	46 - 60 Seconds	41.0	46 - 60 Seconds	41.0
Temperature	measured	2.3	+/- 1.0 Deg C	4.2
Pressure	measured	0.917	+/- 1.5% ΔATM	0.917
Total Flow	16.67 SLPM	17.51		16.78
Auxiliary flow	13.67 SLPM	14.45	+/- 1.0 SLPM	13.68
Main flow	3.0 SLPM	3.080	+/- 0.2 SLPM	3.100
Leak Check - main	0.0	0.01	<0.15 SLPM	0.01
Leak Check - aux	0.0	-0.01	<0.15 SLPM	-0.01
Ko Factor (w/o filter)	measured	NA	filter weight (g)	NA
Ko Factor (w/ filter)	measured	NA	% Ko difference	NA

Notes: Auxiliary flow was adjusted, all else OK

Calibration Performed By: Lenin Flores