



Palliser Airshed Society

Ambient Air Monitoring Network Summary

September 2007

Prepared By:
FOCUS
AIR QUALITY MONITORING

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October 4, 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 – September 2007

Enclosed is the PAS Ambient Monitoring Report for the month of **September 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 greater than 90% operational for for the month of September.

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

- Monthly average concentrations of NO₂ was 4.6 ppb
- Monthly average concentrations for O₃ was 25.4 ppb
- Monthly average concentrations for CO was 0.12 ppm
- Monthly average concentrations for THC was 2.03 ppm
- Monthly average concentrations for PM_{2.5} was 2.9 µg/m³

The Air Quality Index (AQI) recorded 641 hours of Good readings and 18 hours of Fair readings for the month of September.

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, there 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 September 2007 recorded by the twenty passive stations located throughout the PAS zone.

- ◆ Average concentrations for SO₂ passives ranged from 0.2 to 0.6 ppb with a mean of 0.3 ppb.
- ◆ Average concentrations for NO₂ passives ranged from 0.7 to 6.9 ppb with a mean of 2.4 ppb.
- ◆ Average concentrations for O₃ passives ranged from 23.5 to 32.1 ppb with a mean of 27.3 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

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AQM Project Coordinator



Continuous Monitoring

Ambient Air Monitoring Network

Crescent Heights Station

General Station Issues

Calibrations were performed on September 11th (NO_x, O₃ and CO) and September 12th (O₃, THC and TEOM). The API O₃ analyzer was removed from service on September 11th and a new TECO 43I Ozone analyzer was installed.

Parameter	Make	Model	Units	Notes
Ozone	TECO	43I	ppb	The API 400 analyzer was removed and replaced with a TECO 43I. It was installed on September 11 th and allowed to stabilize overnight – installation calibrations were completed on September 12 th . A span adjustment occurred on September 17 th . Seventenn hours were flagged for maintenance.
Nitrogen Dioxide	Teledyne - API	200E	ppb	Maintenance was performed on the NOX analyzer on September 11 (internal valves were replaced) – the analyzer was allowed to stabilize overnight and calibrations were completed on September 12 th . Eighteen hours were flagged for maintenance.
Total Hydrocarbons	Bendix	400A	ppm	The THC zero air pump was failing so it was replaced on September 11 th – followed by monthly calibration. Analyzer did not span from September 13 th to the 16 th due to an incorrect wire connection it was fixed on September 17 th . Seven hours were flagged for maintenance.
Carbon Monoxide	TEI	49C	ppm	No operational problems observed.
PM _{2.5}	R&P TEOM	1400ab	µg/m ³	Eight (8) hours were flagged invalid due to excessive baseline drift. A second TEOM flow audit was performed on September 28 to adjust the flows.
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.



September 2007 Monthly Overall Summary Report Ambient Air Quality Data

Sep-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	2.4	-	-	44.4	Sep-14 06:00	4.5	W	5.6	Sep-27	97.5%
NO ₂ (ppb)	212	106	Crescent Heights	4.6	0	0	28.1	Sep-15 18:00	4.5	SE	9.6	Sep-04	97.5%
NO _x (ppb)			Crescent Heights	6.7	-	-	65.0	Sep-14 06:00	4.5	W	13.0	Sep-04	97.5%
O ₃ (ppb)	82		Crescent Heights	25.4	0	-	66.3	Sep-15 13:00	9.9	SW	46.3	Sep-16	97.6%
O ₃ (ppb) - 8-hr	65		Crescent Heights		0						59.1	Sep-15	
CO (ppm)	13		Crescent Heights	0.12	0	-	0.7	Sep-11 07:00	3	NE	0.2	Sep-11	100.0%
CO (ppm) - 8-hr	5		Crescent Heights		0						0.3	Sep-12	
THC (ppm)			Crescent Heights	2.03	-	-	2.9	Sep-25 23:00	6.6	SSW	2.2	Sep-13	99.0%
PM _{2.5} (µg/m ³)		30 ^a	Crescent Heights	2.9	0	0	20.7	Sep-01 03:00	15.0	WNW	9.1	Sep-16	98.9%
RH (%)			Crescent Heights	56.6	-	-	-	-	-	-	-	-	100.0%
SR (W/m ²)			Crescent Heights	165.5	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Crescent Heights	13.3	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)			Crescent Heights	10.6	-	-	32.6	Sep-06 15:00	32.6	N	15.7	Sep-30	100.0%
WSPD s (km/hr)			Crescent Heights	11.2	-	-	32.9	Sep-06 15:00	32.9	N	16.3	Sep-30	100.0%
WDIR			Crescent Heights	W	-	-	-	-	-	-	-	-	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: September 1, 2007 to October 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:	641
Number of 1-hr Fair Readings:	18
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day	Mountain Standard Time																							
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-Sep-07	16	17	17	17	9	8	9	10	13	13	17	19	20	21	20	20	20	20	N	17	16	14	9	
2-Sep-07	11	10	10	9	8	7	8	9	11	16	18	19	19	19	20	20	20	N	16	18	15	12	9	
3-Sep-07	8	9	9	7	5	9	10	11	13	15	18	19	21	23	24	25	26	N	23	22	19	14	14	
4-Sep-07	15	8	8	11	10	12	8	10	9	13	15	15	16	20	22	22	N	21	21	19	17	16	15	
5-Sep-07	15	14	13	13	10	8	7	9	9	14	N	18	19	19	20	N	20	20	13	12	16	17	17	
6-Sep-07	17	16	13	10	12	12	12	12	12	13	15	17	18	N	16	17	17	17	15	14	8	11	10	
7-Sep-07	10	9	7	7	6	5	5	4	5	6	8	N	16	N	14	16	15	13	12	7	5	8	6	5
8-Sep-07	3	3	5	5	2	2	3	3	4	7	10	N	N	15	14	14	14	13	7	5	9	10	11	7
9-Sep-07	4	4	4	2	3	2	2	3	5	7	11	N	15	N	16	16	16	16	14	7	5	4	10	11
10-Sep-07	12	13	11	10	8	4	4	7	8	11	N	13	15	16	15	15	15	14	13	11	10	6	4	4
11-Sep-07	3	3	3	3	3	3	3	8	7	N	N	16	N	N	N	N	N	N	N	N	N	N	N	N
12-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	1	2	12	11	11	12	11	10	11	7	9
13-Sep-07	10	8	N	7	5	4	3	4	6	9	12	14	15	17	17	18	17	15	11	8	8	8	9	9
14-Sep-07	12	11	N	4	4	4	5	6	14	18	21	23	23	24	25	28	27	24	18	16	12	14	15	18
15-Sep-07	16	N	15	12	12	13	14	12	17	21	22	24	32	39	38	38	37	34	17	17	18	22	27	28
16-Sep-07	N	23	23	21	21	19	17	18	20	21	24	28	30	32	33	33	30	27	23	21	21	21	20	N
17-Sep-07	19	19	19	17	14	14	16	14	15	16	17	15	3	1	17	21	21	19	12	9	8	7	6	5
18-Sep-07	8	6	N	13	12	10	10	10	13	16	18	19	18	18	21	22	22	22	20	17	16	15	15	13
19-Sep-07	12	N	10	9	8	8	7	7	7	6	6	7	7	7	7	7	7	7	6	5	5	5	5	6
20-Sep-07	N	N	7	9	8	7	8	8	10	10	10	11	12	11	11	11	13	15	14	12	9	10	11	N
21-Sep-07	13	13	13	8	8	6	4	8	11	13	14	16	18	20	21	21	20	18	13	10	11	11	N	12
22-Sep-07	13	12	12	16	14	12	12	12	13	18	18	20	23	24	24	23	22	21	19	17	14	N	16	16
23-Sep-07	14	12	12	12	11	10	9	9	11	10	10	9	10	10	11	10	10	7	6	5	N	3	4	5
24-Sep-07	6	3	4	2	3	2	3	4	6	9	10	12	13	13	15	16	16	14	10	N	10	11	11	12
25-Sep-07	10	8	9	8	8	5	3	5	6	9	12	15	16	16	17	14	16	15	N	7	6	4	5	4
26-Sep-07	6	7	7	7	7	7	7	7	10	12	13	17	20	21	19	17	19	17	19	12	12	9	8	8
27-Sep-07	7	8	N	7	4	3	4	3	6	11	19	20	21	20	20	20	19	18	18	19	20	20	20	17
28-Sep-07	14	N	10	7	11	10	8	7	6	12	17	19	20	22	N	19	19	16	15	13	10	9	10	11
29-Sep-07	12	12	N	13	11	11	11	10	8	8	9	8	9	10	11	11	12	11	8	7	6	3	4	5
30-Sep-07	9	N	10	12	12	11	12	13	15	15	16	19	20	19	18	20	18	17	14	15	14	9	14	14



PAS - Crescent Heights Nitrogen Dioxide Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

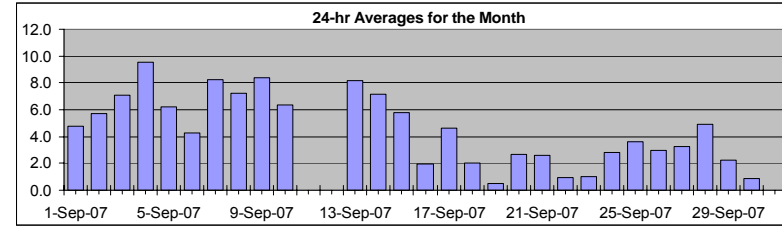
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: September 1, 2007 to October 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:	28.1	ppb	15-Sep	18:00 19:00
Maximum 24-hr Average:	9.6	ppb	4-Sep	



AIC Time:	30 hrs	Operational Time:	666 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	97.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	18.7	14.7	6.8	3.1	0.8	0.0	0.0	4.6 ppb	3.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Sep-07	4	3	2	6	7	10	6	5	5	6	4	3	2	1	2	2	2	1	2	A	10	7	6	13	4.8	13.2	
2-Sep-07	6	8	7	7	6	7	6	5	4	2	2	2	2	3	2	3	2	3	A	15	7	8	11	14	5.7	15.2	
3-Sep-07	14	9	7	11	13	6	7	4	5	4	5	5	4	2	3	2	2	A	11	9	9	12	10	8	7.1	14.1	
4-Sep-07	5	19	15	9	10	25	19	23	13	6	5	8	7	6	5	2	A	9	5	6	5	8	5	5	9.6	24.7	
5-Sep-07	5	5	5	6	7	10	12	11	9	3	2	1	1	2	2	A	9	7	17	17	7	3	2	2	6.3	17.3	
6-Sep-07	1	2	3	4	2	2	4	4	3	3	3	3	3	2	A	9	4	3	4	6	5	15	8	5	4.3	14.7	
7-Sep-07	4	6	6	6	7	9	11	17	12	12	11	3	1	A	11	4	4	6	5	12	16	8	8	9	8.2	16.8	
8-Sep-07	13	10	8	6	8	9	7	6	4	4	3	2	A	8	5	4	3	4	15	16	8	4	10	7.2	16.1		
9-Sep-07	13	16	15	10	8	10	9	6	5	4	3	A	8	3	2	2	3	5	6	19	20	18	5	3	8.4	19.7	
10-Sep-07	2	2	2	2	5	12	16	12	7	3	A	9	4	3	3	3	3	3	4	4	6	9	15	16	6.3	16.2	
11-Sep-07	11	11	9	9	9	11	13	14	16	A	8	C	C	M	M	M	M	M	M	M	M	M	M	M	N	16.2	N
12-Sep-07	M	M	M	M	M	M	M	C	C	C	A	1	2	1	2	4	4	4	2	4	5	2	8	6	N	7.6	N
13-Sep-07	5	8	A	6	8	11	13	13	11	7	4	3	3	4	4	5	9	14	16	12	9	7	6	6	8.2	15.6	
14-Sep-07	2	4	A	10	14	17	21	22	8	1	0	0	0	1	1	1	1	3	10	14	16	9	8	2	7.1	21.7	
15-Sep-07	3	A	5	9	9	7	4	11	4	1	2	1	0	0	0	0	1	6	28	18	16	8	1	0	5.8	28.1	
16-Sep-07	A	1	0	1	0	3	4	2	1	2	2	0	2	1	2	2	3	5	5	5	1	1	2	A	2.0	5.1	
17-Sep-07	1	2	4	4	4	1	1	3	0	0	0	0	1	1	2	0	0	2	12	17	15	15	13	15	4.7	17.2	
18-Sep-07	5	9	A	3	3	6	5	5	1	0	0	0	2	4	0	0	0	0	0	1	1	1	0	1	2.0	8.6	
19-Sep-07	4	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	0	0.5	3.9	
20-Sep-07	A	0	0	0	0	3	3	5	2	1	1	4	2	2	5	4	5	3	3	4	6	6	2	A	2.6	5.6	
21-Sep-07	0	0	1	7	2	3	8	5	1	0	0	0	0	0	0	1	1	1	6	11	7	4	A	0	2.6	11.2	
22-Sep-07	0	0	1	0	1	3	2	0	1	0	1	2	0	0	0	0	0	1	1	2	5	A	0	0	0.9	5.4	
23-Sep-07	0	2	2	0	2	2	3	3	0	0	1	1	0	0	0	0	0	0	0	0	A	3	1	1	1.0	3.1	
24-Sep-07	0	4	3	7	5	9	9	7	2	0	0	0	0	0	0	0	0	3	6	A	5	3	2	0	2.8	9.2	
25-Sep-07	1	1	0	0	0	3	11	5	5	2	0	0	0	0	1	5	1	0	A	13	12	11	8	6	3.6	12.5	
26-Sep-07	5	3	2	1	1	3	4	5	2	1	0	0	0	0	1	0	0	1	0	11	10	8	8	4	3.0	11.3	
27-Sep-07	6	0	A	2	6	11	16	12	9	8	0	0	0	0	0	0	0	2	3	0	0	0	0	0	3.3	16.2	
28-Sep-07	1	A	5	11	4	9	14	14	14	8	1	0	0	0	0	2	1	4	3	6	7	5	3	2	4.9	14.5	
29-Sep-07	0	0	A	0	0	0	0	1	5	5	1	0	0	0	0	0	0	2	6	5	3	8	8	5	2.3	8.3	
30-Sep-07	0	A	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	3	1	2	9	1	0	0.9	9.0	
Hourly Avg	4.2	5.0	4.4	4.7	4.9	6.9	7.9	7.6	5.1	3.1	2.1	1.8	1.6	1.6	1.9	1.9	1.9	3.2	6.3	8.6	7.8	7.1	5.2	4.9			
Hourly Max	14.1	18.7	15.1	11.1	14.5	24.7	20.5	22.7	16.2	12.5	11.1	8.9	8.1	8.0	10.8	9.4	9.3	8.9	28.1	18.6	19.7	17.6	15.4	16.2			

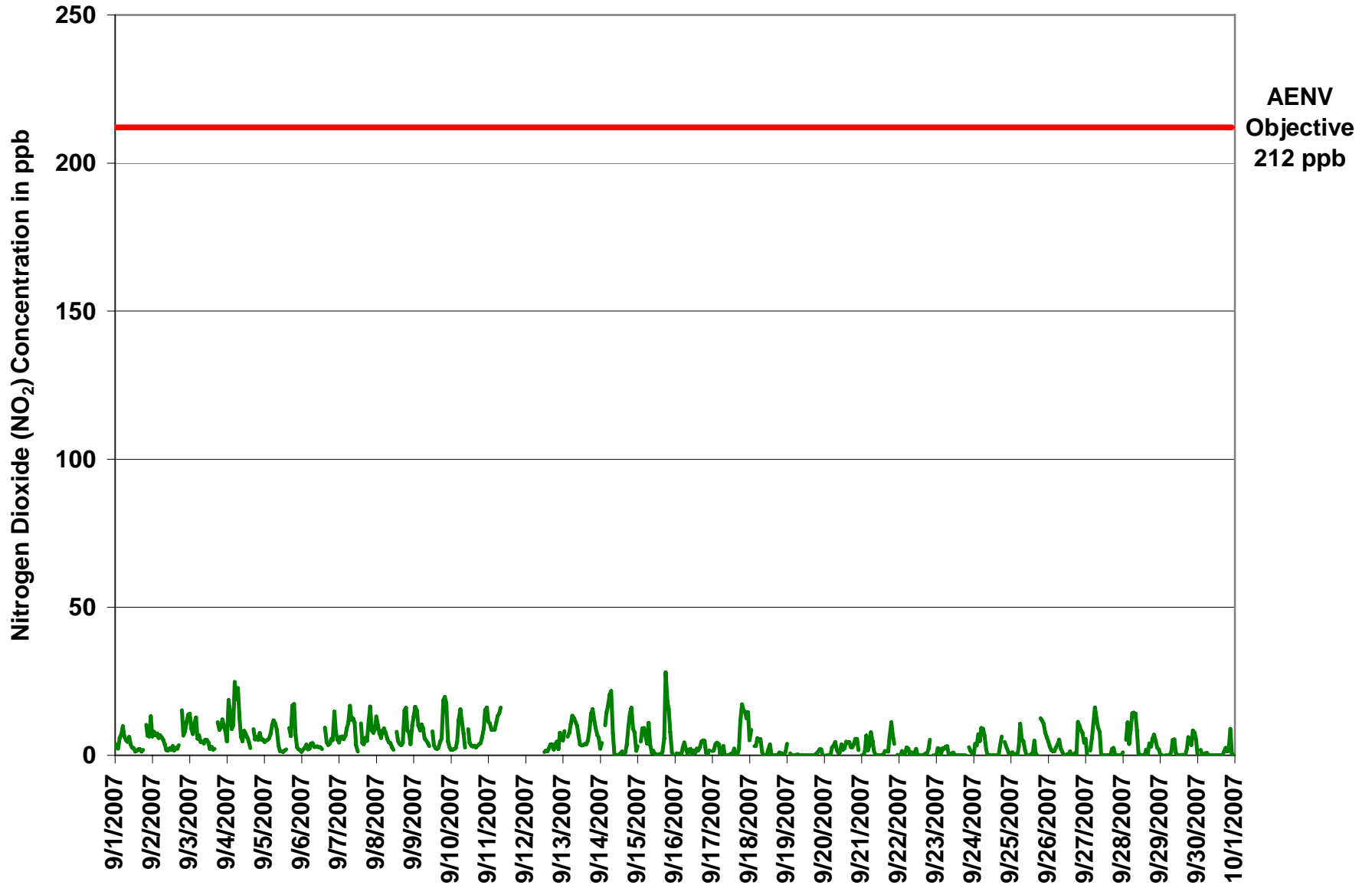


Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

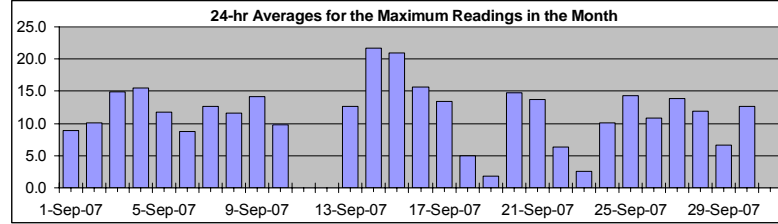
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

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

Summary

Maximum 1-hr Value:	52.9	ppb	15-Sep	7:00 8:00
Maximum 24-hr Value:	21.8	ppb	14-Sep	



AIC Time:	30 hrs	Operational Time:	666 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	97.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	42.8	31.9	17.4	9.2	3.7	0.0	0.0	11.7 ppb	9.2 ppb

Status Flag Characters

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

Day Mountain Standard Time

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-Sep-07	5	4	4	11	14	25	9	8	7	11	8	5	5	2	4	5	5	2	3	A	19	8	9	34	8.9	33.8
2-Sep-07	7	9	11	15	13	9	8	7	6	4	3	3	16	15	3	7	4	7	A	24	10	13	16	21	10.1	23.9
3-Sep-07	30	18	9	13	25	8	20	6	23	7	40	10	13	4	7	5	4	A	18	10	13	25	17	17	14.9	39.5
4-Sep-07	8	40	21	11	22	34	27	28	16	10	17	14	10	9	16	4	A	16	6	10	11	11	7	9	15.5	39.6
5-Sep-07	6	6	19	8	16	16	16	15	11	7	3	3	2	3	5	A	18	22	33	31	13	14	3	3	11.8	32.6
6-Sep-07	2	22	5	6	4	4	9	9	6	6	5	6	8	4	A	17	6	5	6	8	9	24	22	7	8.7	23.8
7-Sep-07	7	11	9	8	8	14	14	24	15	24	19	8	2	A	16	7	6	10	9	20	23	13	9	13	12.7	24.4
8-Sep-07	15	12	12	8	11	11	11	8	11	5	5	3	A	17	7	7	5	7	26	23	19	22	7	15	11.6	26.0
9-Sep-07	20	20	17	14	11	12	11	15	7	14	5	A	16	4	3	3	4	19	21	31	24	23	13	22	14.2	31.3
10-Sep-07	4	3	3	4	7	19	19	20	10	6	A	17	6	4	5	7	4	4	6	5	13	16	19	23	9.8	23.0
11-Sep-07	17	15	12	11	10	17	23	27	18	A	21	C	C	M	M	M	M	M	M	M	M	M	M	M	N	26.9
12-Sep-07	M	M	M	M	M	M	M	C	C	C	C	A	4	7	3	6	8	7	3	6	8	4	13	8	N	13.0
13-Sep-07	7	12	A	8	9	13	16	27	15	16	10	7	6	5	15	5	7	32	19	19	16	13	10	7	12.7	31.6
14-Sep-07	5	10	A	13	38	26	33	32	37	29	1	1	5	20	32	2	11	6	50	35	32	42	38	3	21.8	50.1
15-Sep-07	5	A	20	18	20	41	7	53	10	2	12	1	19	9	20	1	21	42	44	33	46	53	3	1	20.9	52.9
16-Sep-07	A	2	2	3	1	34	26	22	14	29	31	2	21	14	30	4	28	11	11	25	3	2	29	A	15.7	34.2
17-Sep-07	37	38	32	9	9	7	10	10	0	2	1	1	3	3	6	3	1	13	22	24	19	24	16	32	13.4	38.1
18-Sep-07	18	11	A	5	9	10	11	12	4	1	1	1	6	10	4	0	0	0	1	3	1	2	2	3	5.0	18.2
19-Sep-07	7	A	2	0	0	1	1	5	0	1	0	0	5	2	0	1	1	1	1	2	3	4	4	1	1.8	6.9
20-Sep-07	A	6	22	20	2	10	24	23	17	11	3	21	18	24	25	8	8	5	5	16	21	19	17	A	14.7	25.0
21-Sep-07	2	3	7	32	3	20	20	9	25	17	0	0	20	1	17	27	24	9	28	18	12	7	A	15	13.8	32.3
22-Sep-07	0	2	8	0	20	5	6	1	20	2	23	18	18	0	0	0	3	7	2	5	8	A	0	0	6.4	22.5
23-Sep-07	2	5	5	2	4	4	5	9	3	1	2	3	2	0	0	0	0	1	0	1	A	5	3	2	2.6	8.9
24-Sep-07	0	6	5	10	9	10	11	9	16	11	1	1	0	12	0	13	24	32	17	A	22	17	5	0	10.1	31.6
25-Sep-07	17	16	10	10	0	20	12	17	8	20	2	0	0	21	34	30	3	0	A	27	33	21	21	8	14.4	34.1
26-Sep-07	7	12	15	10	4	18	7	7	4	38	8	13	23	3	6	0	8	7	1	23	18	12	11	8	10.9	38.4
27-Sep-07	25	2	A	13	12	16	24	17	12	12	10	49	0	0	0	18	1	10	45	2	0	26	2	23	13.9	49.0
28-Sep-07	3	A	11	36	13	20	30	22	20	16	3	1	15	0	3	4	3	14	7	9	14	9	9	10	11.9	36.2
29-Sep-07	10	3	A	0	0	0	1	4	8	8	8	2	2	0	1	1	1	15	13	15	8	23	18	11	6.6	22.9
30-Sep-07	2	A	38	0	2	13	7	14	26	0	0	27	0	20	38	0	23	3	17	3	3	26	3	26	12.6	38.0
Hourly Avg	9.9	11.5	12.4	10.3	10.2	15.1	14.4	15.9	12.7	11.1	8.6	8.1	8.6	7.7	10.8	6.6	8.2	10.9	15.3	15.9	15.0	17.1	11.7	11.9		
Hourly Max	36.5	39.6	38.0	36.2	37.5	41.2	33.2	52.9	36.9	38.4	39.5	49.0	23.1	24.0	37.9	29.9	28.5	42.3	50.1	34.9	46.2	52.7	37.5	33.8		

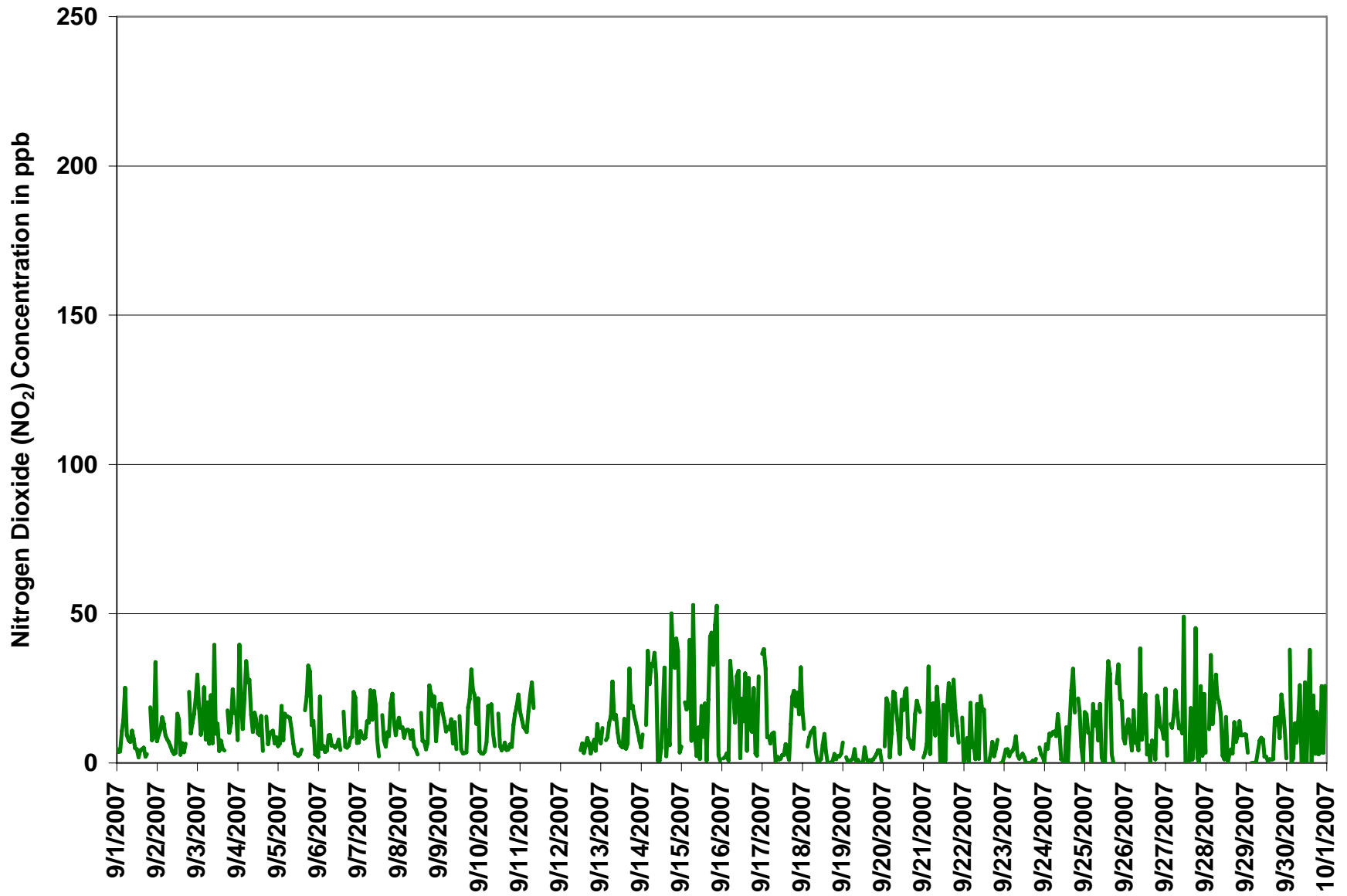
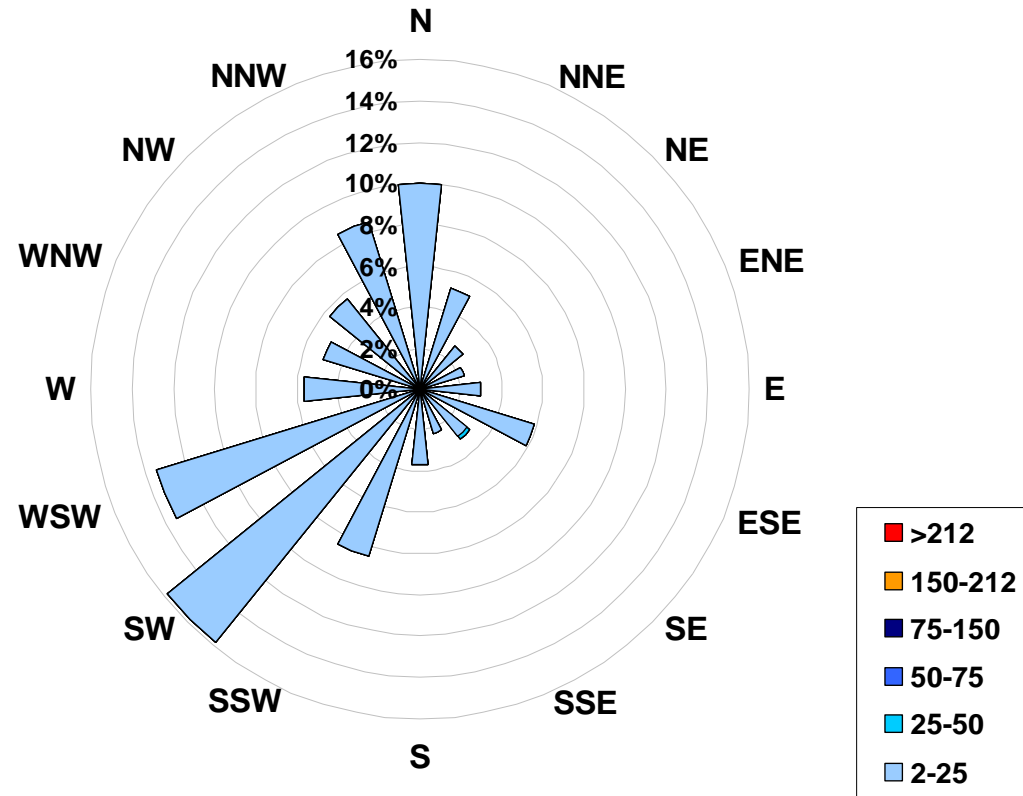


Figure 2. PAS - Crescent Heights Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	<	25	658
25	to	50	8
50	to	75	0
75	to	150	0
150	to	212	0
	>	212	0
Total Non-Zero Values			666



PAS - Crescent Heights Nitric Oxide Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

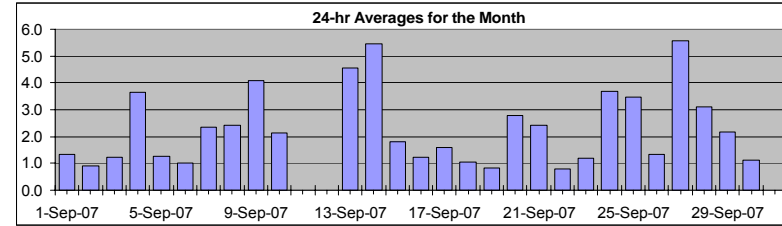
HOURLY AVERAGE TABLE

Nitric Oxide (NO)

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

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

Maximum 1-hr Average:	44.4	ppb	14-Sep	6:00 7:00
Maximum 24-hr Average:	5.6	ppb	27-Sep	



AIC Time:	30 hrs	Operational Time:	666 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	97.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	27.4	8.1	2.2	1.1	0.6	0.0	0.0	2.4 ppb	1.1 ppb

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Sep-07	1	1	1	1	1	4	1	2	2	4	2	1	1	1	0	1	1	0	0	A	1	1	0	4	1.3	4.3
2-Sep-07	0	0	1	1	1	2	2	2	1	1	0	1	1	1	0	1	1	1	A	2	1	1	1	1	0.9	1.9
3-Sep-07	2	1	1	0	6	0	2	1	2	2	3	2	1	0	1	0	0	A	1	0	0	0	0	0	1.2	6.3
4-Sep-07	0	4	1	1	1	20	10	27	5	2	2	2	2	2	1	1	A	1	1	1	1	1	0	0	3.7	26.6
5-Sep-07	0	0	1	0	1	2	3	4	4	1	1	1	1	1	1	A	1	1	2	2	1	1	0	0	1.3	3.9
6-Sep-07	1	1	1	1	1	1	2	2	1	1	2	1	1	1	A	2	1	1	1	1	1	1	0	0	1.0	2.1
7-Sep-07	0	1	1	1	1	3	3	12	5	8	7	1	1	A	2	1	1	1	1	1	2	1	1	1	2.3	12.1
8-Sep-07	1	1	1	1	1	3	7	7	7	5	2	1	A	1	1	1	1	1	7	2	2	0	1	2.4	7.4	
9-Sep-07	2	15	21	3	1	2	9	8	7	6	2	A	1	1	1	0	1	2	1	4	2	3	1	2	4.1	20.7
10-Sep-07	0	0	0	0	0	4	8	14	6	2	A	1	1	0	1	1	1	1	1	0	0	0	2	7	2.1	13.6
11-Sep-07	1	3	1	1	0	5	31	43	33	A	2	C	C	M	M	M	M	M	M	M	M	M	M	M	N	43.4
12-Sep-07	M	M	M	M	M	M	M	C	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0	N	0.0
13-Sep-07	0	0	A	0	1	3	13	23	19	14	7	4	3	3	4	2	2	3	1	1	1	0	0	0	4.5	23.0
14-Sep-07	0	1	A	2	8	9	44	29	7	2	1	1	1	1	2	1	1	1	3	2	4	3	5	0	5.5	44.4
15-Sep-07	0	A	1	0	0	3	1	12	2	1	1	1	1	1	1	0	1	2	2	0	8	3	0	0	1.8	12.1
16-Sep-07	A	0	0	0	0	3	2	1	1	3	3	1	1	1	2	1	1	0	1	2	0	0	2	A	1.2	3.5
17-Sep-07	4	1	1	0	0	0	1	3	1	1	1	1	1	1	2	1	1	1	1	2	1	1	1	10	1.6	10.0
18-Sep-07	1	1	A	1	1	2	1	3	1	1	1	2	2	3	1	1	0	0	0	0	0	0	0	0	1.1	3.2
19-Sep-07	0	A	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.8	1.5
20-Sep-07	A	1	2	3	1	1	5	4	3	2	2	6	4	4	5	2	2	1	1	2	3	5	2	A	2.8	6.3
21-Sep-07	1	0	0	8	1	5	7	5	3	3	2	1	1	1	3	3	3	1	4	1	1	1	A	1	2.4	8.0
22-Sep-07	0	0	0	0	1	0	0	1	3	1	4	4	2	0	0	0	0	0	0	0	0	A	0	0	0.8	3.9
23-Sep-07	0	1	1	1	1	1	2	2	1	1	2	2	1	1	1	1	1	1	1	1	A	2	2	1	1.2	2.4
24-Sep-07	0	1	0	2	5	6	15	21	9	4	3	2	1	2	0	2	2	6	1	A	2	1	0	0	3.7	20.5
25-Sep-07	2	2	1	3	0	5	8	6	5	4	2	1	1	3	2	4	0	0	A	8	9	5	6	1	3.5	9.4
26-Sep-07	0	1	2	0	0	3	2	3	3	4	3	2	2	1	1	1	1	1	1	1	1	0	0	0	1.3	3.7
27-Sep-07	9	0	A	1	2	7	38	32	15	8	1	4	1	0	1	1	0	1	3	0	0	1	0	1	5.6	38.5
28-Sep-07	0	A	1	11	1	3	11	8	12	8	1	1	2	1	1	1	1	1	1	1	2	2	1	1	3.1	12.1
29-Sep-07	1	1	A	1	0	0	0	1	3	4	2	3	2	1	2	1	1	3	1	1	1	11	7	1	2.2	11.1
30-Sep-07	0	A	4	0	0	2	1	2	0	0	0	2	0	2	3	0	4	0	1	0	0	2	0	2	1.1	4.4
Hourly Avg	1.0	1.5	1.7	1.5	1.3	3.4	8.0	9.6	5.6	3.3	2.1	1.8	1.3	1.3	1.5	1.1	1.0	1.2	1.4	1.4	1.6	1.7	1.2	1.3		
Hourly Max	8.8	15.3	20.7	11.1	8.0	20.3	44.4	43.4	33.0	13.8	7.1	6.3	4.0	3.9	5.3	4.4	3.8	6.3	6.8	7.8	9.4	11.1	7.4	10.0		



PAS - Crescent Heights Oxides of Nitrogen Monthly Summary

Station: Crescent Heights
Station Owner: PAS

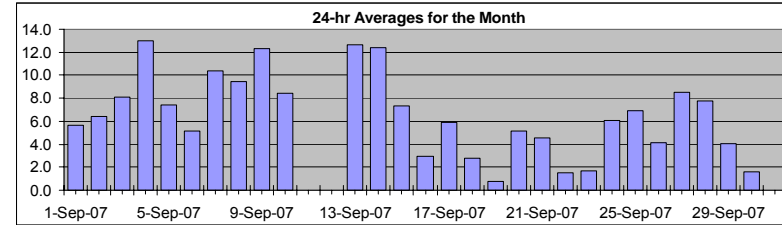
HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

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

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

Maximum 1-hr Average:	65.0	ppb	14-Sep	6:00 7:00
Maximum 24-hr Average:	13.0	ppb	4-Sep	



AIC Time:	30 hrs	Operational Time:	666 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	97.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	44.7	22.1	8.9	4.4	1.5	0.0	0.0	6.7 ppb	4.4 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	23:00		
1-Sep-07	4	3	2	6	7	13	7	7	7	9	5	4	3	2	2	3	3	1	2	A	11	7	7	17	5.7	17.3	
2-Sep-07	7	8	7	8	7	8	7	7	5	2	2	3	3	4	2	3	3	4	A	17	7	8	12	14	6.4	16.7	
3-Sep-07	16	10	7	11	19	6	8	5	7	5	8	6	5	2	3	2	2	A	12	9	10	12	10	8	8.1	18.9	
4-Sep-07	5	22	16	9	11	45	28	49	17	8	6	10	9	8	6	3	A	9	6	7	6	8	5	6	13.0	49.2	
5-Sep-07	5	5	6	6	8	12	14	14	12	5	2	2	2	2	3	A	10	8	19	19	8	3	2	2	7.4	19.1	
6-Sep-07	2	3	3	4	3	3	6	6	4	4	4	4	4	3	A	11	5	4	4	6	6	15	8	5	5.1	15.4	
7-Sep-07	5	7	7	6	7	12	14	29	17	20	18	5	2	A	12	5	5	7	5	13	18	9	9	9	10.4	28.8	
8-Sep-07	14	11	8	6	9	12	15	12	11	9	5	3	A	9	6	5	4	5	22	18	10	9	4	11	9.4	21.8	
9-Sep-07	15	32	36	13	9	12	18	13	12	10	5	A	9	4	3	3	3	6	6	23	22	20	5	5	12.3	35.6	
10-Sep-07	2	2	2	2	5	16	24	25	13	4	A	10	5	4	4	4	3	4	4	4	6	10	17	23	8.4	25.1	
11-Sep-07	13	13	9	9	9	16	45	58	49	A	10	C	C	M	M	M	M	M	M	M	M	M	M	M	N	57.6	
12-Sep-07	M	M	M	M	M	M	M	C	C	C	C	A	0	0	0	1	2	3	1	3	4	1	7	6	N	7.2	
13-Sep-07	5	8	A	7	8	13	26	36	30	24	14	8	6	6	7	6	7	12	15	16	13	10	7	6	12.6	35.8	
14-Sep-07	2	4	A	12	23	26	65	51	14	3	0	0	1	2	3	1	2	4	13	16	19	12	12	1	12.4	65.0	
15-Sep-07	3	A	5	9	10	10	5	23	5	2	3	1	1	0	1	0	2	7	30	18	23	11	1	0	7.4	30.3	
16-Sep-07	A	1	0	0	0	6	7	3	1	5	5	1	3	1	4	2	4	5	5	6	1	0	3	A	2.9	6.5	
17-Sep-07	5	3	5	4	4	1	2	6	0	1	0	1	1	1	4	0	0	3	13	19	16	16	13	24	5.9	24.4	
18-Sep-07	6	10	A	4	4	7	6	8	2	0	0	1	4	7	1	0	0	0	0	1	1	0	0	1	2.8	9.7	
19-Sep-07	4	A	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	2	3	3	0	0.8	3.9	
20-Sep-07	A	0	1	2	1	4	8	9	5	3	3	10	6	6	10	6	6	4	3	5	9	10	3	A	5.1	10.0	
21-Sep-07	0	0	1	15	2	8	15	10	5	2	0	0	0	0	3	4	4	2	10	12	7	4	A	1	4.6	14.9	
22-Sep-07	0	0	1	0	2	3	2	1	4	0	4	6	2	0	0	0	0	0	1	2	6	A	0	0	1.5	6.0	
23-Sep-07	0	3	3	1	3	3	5	5	1	1	2	3	1	0	0	0	0	0	0	0	A	5	3	1	1.7	5.0	
24-Sep-07	0	5	3	9	10	15	24	27	10	4	2	1	0	0	0	0	1	9	7	A	7	4	2	0	6.1	27.0	
25-Sep-07	3	3	0	4	0	8	19	11	10	6	1	0	0	3	3	9	1	0	A	20	21	16	13	7	6.9	21.1	
26-Sep-07	5	4	3	2	2	5	5	9	5	5	2	2	3	1	2	0	0	1	0	12	11	9	8	4	4.1	11.9	
27-Sep-07	14	0	A	3	8	18	55	44	24	16	1	4	0	0	0	0	0	3	5	0	0	0	1	8.5	54.6		
28-Sep-07	1	A	6	22	5	11	25	22	26	16	2	0	2	0	1	3	1	5	3	6	8	7	3	3	7.7	26.0	
29-Sep-07	1	1	A	0	0	0	0	2	8	9	3	3	0	0	2	1	1	5	7	6	4	19	15	6	4.1	19.3	
30-Sep-07	0	A	6	0	0	2	1	2	0	0	0	0	0	1	2	0	3	1	3	1	1	11	0	1	1.6	11.1	
Hourly Avg	5.0	6.3	5.8	6.0	6.0	10.1	15.7	17.1	10.5	6.1	3.9	3.2	2.5	2.4	3.0	2.6	2.6	4.0	7.4	9.7	9.1	8.5	6.2	6.0			
Hourly Max	16.1	31.6	35.6	22.1	22.6	44.9	65.0	57.6	49.4	23.7	18.1	10.4	9.1	8.5	12.4	11.0	10.4	11.6	30.3	22.6	23.1	20.1	17.4	24.4			

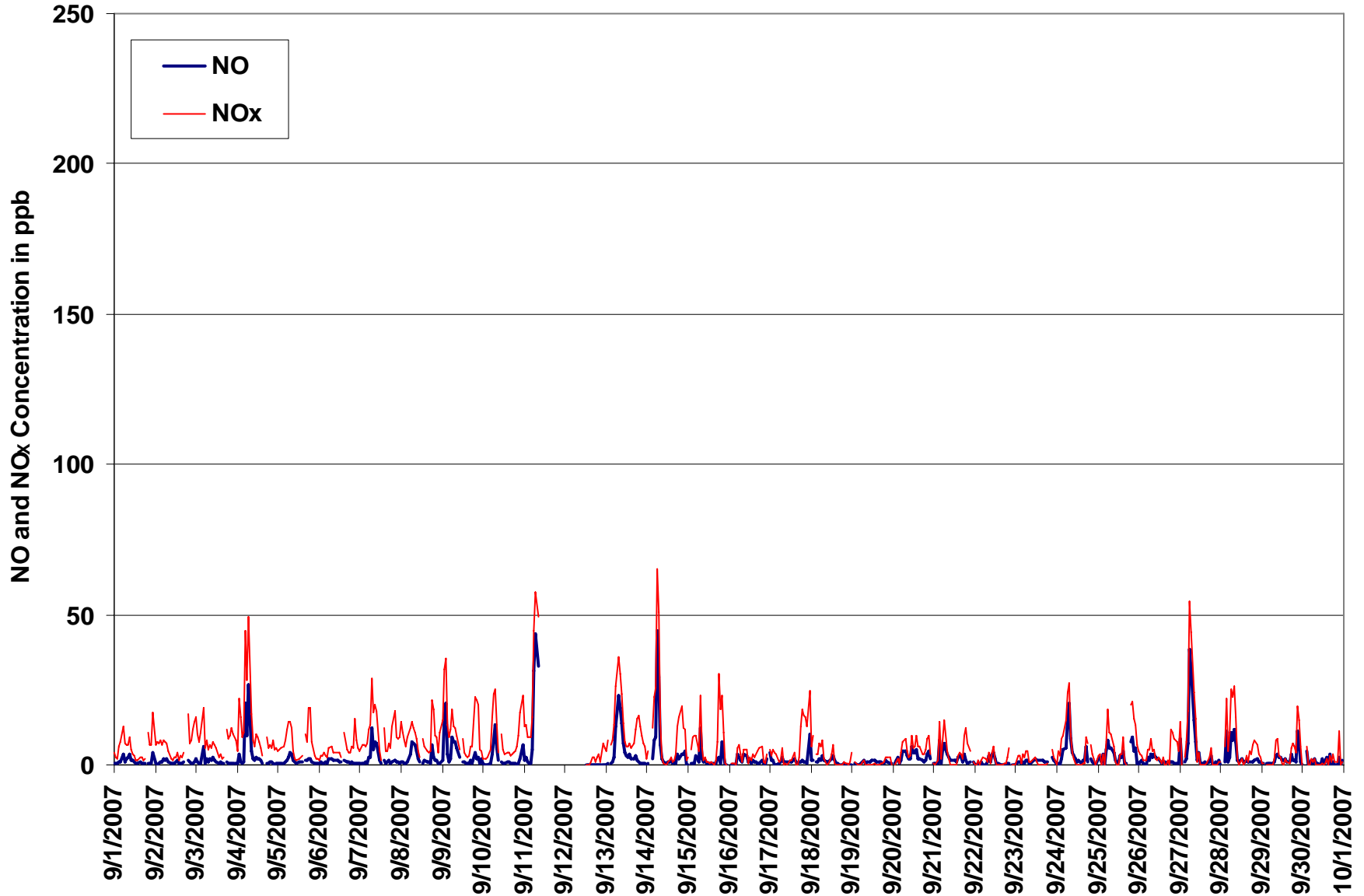


Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

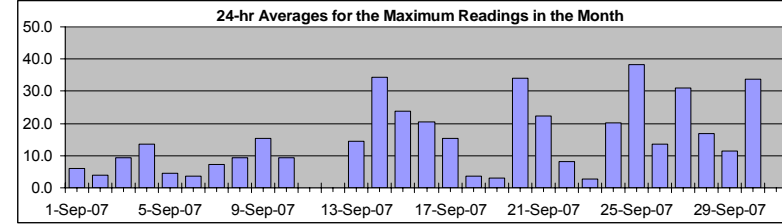
Nitric Oxide (NO)

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

Summary

Maximum 1-hr Value:	167.6	ppb	30-Sep	16:00 17:00
Maximum 24-hr Value:	38.4	ppb	25-Sep	

AIC Time:	30 hrs	Operational Time:	666 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	97.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	118.2	74.7	16.9	3.1	1.6	0.8	0.3	15.4 ppb	3.1 ppb



Status Flag Characters

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

Day Mountain Standard Time

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-Sep-07	1	1	1	2	2	39	2	3	4	7	4	2	3	1	2	2	2	1	1	A	1	1	1	54	6.0	53.8
2-Sep-07	1	1	1	5	10	5	3	4	3	1	2	1	31	9	1	2	2	2	A	3	2	1	1	2	4.0	30.9
3-Sep-07	12	10	1	1	50	1	18	3	32	3	59	4	5	1	3	2	1	A	2	1	1	1	1	9.2	58.8	
4-Sep-07	1	19	12	1	17	76	41	84	8	5	14	5	4	4	10	2	A	2	1	2	2	2	1	1	13.6	84.3
5-Sep-07	1	1	6	1	12	5	6	6	6	3	2	1	2	2	4	A	2	11	13	10	2	9	1	1	4.7	13.1
6-Sep-07	1	27	1	2	2	1	6	6	4	4	4	3	4	3	A	3	2	2	1	2	2	3	2	1	3.7	26.9
7-Sep-07	1	4	1	3	3	16	7	22	8	41	27	4	1	A	3	2	2	3	2	10	4	2	2	2	7.4	40.8
8-Sep-07	3	2	2	1	3	6	53	15	51	8	4	2	A	2	4	3	2	2	25	10	8	8	1	2	9.4	53.4
9-Sep-07	7	31	29	11	2	7	17	27	10	48	4	A	3	2	2	2	2	15	9	36	5	7	2	74	15.2	74.0
10-Sep-07	2	1	1	1	2	23	15	58	10	4	A	3	2	2	3	3	2	2	2	2	1	3	7	72	9.5	72.3
11-Sep-07	21	9	3	2	2	56	69	156	53	A	21	C	C	M	M	M	M	M	M	M	M	M	M	M	N	155.9
12-Sep-07	M	M	M	M	M	M	M	C	C	C	C	A	1	1	2	0	1	1	1	0	0	0	2	1	N	1.9
13-Sep-07	0	1	A	1	3	6	30	110	31	40	11	6	6	5	30	3	3	36	3	2	1	1	1	1	14.5	110.2
14-Sep-07	2	3	A	4	45	62	101	87	50	62	2	1	6	14	35	2	12	1	81	22	62	83	52	2	34.4	100.8
15-Sep-07	2	A	6	1	4	86	2	137	6	2	22	1	13	2	12	1	9	31	14	2	122	73	0	1	23.8	136.5
16-Sep-07	A	1	1	1	1	93	42	28	11	76	45	1	19	6	35	2	13	3	8	15	1	1	49	A	20.6	92.7
17-Sep-07	79	58	41	1	1	2	13	6	2	3	3	2	3	3	4	3	2	4	14	6	3	3	2	110	15.3	110.3
18-Sep-07	27	4	A	2	3	4	4	6	2	2	2	2	3	8	6	1	1	1	1	1	1	1	1	1	3.6	27.1
19-Sep-07	1	A	1	1	1	1	2	11	2	10	3	2	3	10	5	2	3	2	1	2	4	2	2	1	3.1	10.5
20-Sep-07	A	27	49	48	4	14	88	100	29	21	24	28	24	65	55	4	3	2	2	43	36	52	34	A	34.1	99.5
21-Sep-07	2	1	1	83	1	91	71	8	15	36	2	3	4	2	28	38	32	5	46	6	2	3	A	33	22.4	90.6
22-Sep-07	1	1	1	0	29	1	1	2	44	3	46	25	24	1	1	1	1	2	1	2	2	A	1	1	8.2	46.0
23-Sep-07	1	3	2	3	3	2	3	3	3	2	2	4	4	2	2	3	2	3	3	2	A	5	3	2	2.7	4.7
24-Sep-07	1	2	1	5	35	10	24	30	67	39	6	4	2	32	1	19	31	86	5	A	32	24	4	1	20.1	86.4
25-Sep-07	47	56	21	23	1	86	12	27	9	62	3	2	2	34	60	65	2	2	A	124	127	32	83	2	38.4	127.2
26-Sep-07	1	32	37	20	1	62	4	7	4	56	24	17	32	2	2	2	8	2	3	5	2	1	1	1	13.6	61.7
27-Sep-07	92	2	A	27	8	20	89	74	21	14	18	116	2	1	2	22	1	14	75	1	1	45	3	65	30.9	116.4
28-Sep-07	1	A	6	114	12	18	94	23	35	20	3	2	24	2	3	3	2	4	2	3	7	7	3	2	16.9	114.2
29-Sep-07	2	2	A	1	1	1	1	3	5	6	8	4	4	3	3	2	2	25	10	22	4	102	48	3	11.4	102.1
30-Sep-07	1	A	144	1	1	42	6	67	13	1	1	47	1	46	75	0	168	1	53	1	0	43	1	67	33.8	167.6
Hourly Avg	11.6	11.8	15.4	12.6	8.9	28.9	28.4	38.4	18.5	20.6	13.0	10.9	8.2	9.5	14.1	6.9	11.2	9.4	14.0	12.3	15.5	18.4	11.0	18.7		
Hourly Max	91.7	57.6	144.5	114.2	49.8	92.7	100.8	155.9	67.1	75.7	58.8	116.4	32.1	64.6	75.1	64.7	167.6	86.4	81.4	124.4	127.2	102.1	83.1	110.3		



Station: Crescent Heights
 Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

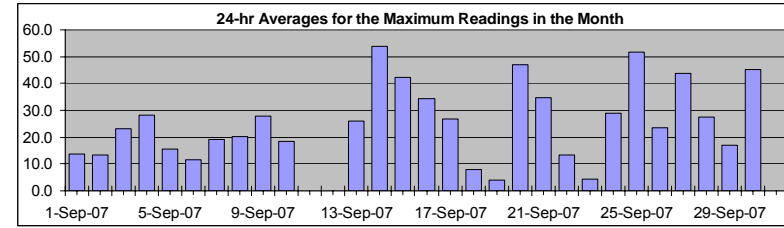
Oxides of Nitrogen (NO_x)

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

Summary

Maximum 1-hr Value:	183.0	ppb	30-Sep	2:00 3:00
Maximum 24-hr Value:	53.8	ppb	14-Sep	

AIC Time:	30 hrs	Operational Time:	666 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	97.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	152.3	102.8	33.6	11.8	5.0	0.7	0.0	25.9 ppb	11.8 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Sep-07	5	4	4	12	16	63	10	10	10	17	12	6	6	2	5	6	7	3	3	A	20	8	9	82	13.9	82.3
2-Sep-07	7	9	11	20	22	13	10	10	7	4	3	4	46	23	3	8	5	8	A	25	11	14	17	23	13.3	46.4
3-Sep-07	41	28	9	14	68	9	35	8	54	9	99	14	18	5	10	5	5	A	19	10	14	25	17	17	23.2	98.5
4-Sep-07	8	55	33	12	36	109	66	112	24	15	29	19	13	12	26	5	A	17	7	11	11	12	7	8	28.1	112.4
5-Sep-07	6	7	24	8	26	20	21	20	17	9	4	3	4	4	8	A	19	33	45	39	14	23	3	3	15.6	45.1
6-Sep-07	3	48	5	6	5	5	15	15	10	9	9	8	11	6	A	19	7	6	6	10	10	26	24	7	11.7	47.8
7-Sep-07	8	14	10	11	10	27	19	41	22	63	45	11	3	A	18	9	7	12	10	31	26	15	12	14	19.1	63.3
8-Sep-07	18	13	13	9	14	15	63	22	60	13	8	4	A	19	11	9	6	8	51	33	26	30	8	15	20.3	62.7
9-Sep-07	27	47	45	24	11	19	26	42	16	54	8	A	17	5	4	4	4	30	29	67	29	29	14	92	27.9	91.8
10-Sep-07	5	3	3	5	8	39	34	79	19	9	A	18	6	6	7	10	6	6	8	6	13	19	24	90	18.3	89.9
11-Sep-07	37	23	14	13	12	72	80	177	71	A	35	C	C	M	M	M	M	M	M	M	M	M	M	M	N	176.6
12-Sep-07	M	M	M	M	M	M	M	C	C	C	C	A	4	6	5	5	9	6	2	6	7	3	14	8	N	13.8
13-Sep-07	6	12	A	8	11	19	45	134	40	57	21	11	9	9	45	8	9	66	21	20	17	13	11	8	26.1	133.9
14-Sep-07	6	11	A	15	81	85	126	118	86	90	2	1	10	35	64	3	19	6	127	55	88	120	88	3	53.8	126.5
15-Sep-07	5	A	25	19	24	126	10	170	16	4	34	2	29	11	30	1	30	65	58	33	162	119	2	0	42.4	170.4
16-Sep-07	A	2	2	3	1	118	68	51	23	100	66	2	40	20	65	5	40	14	19	36	3	3	71	A	34.2	117.7
17-Sep-07	106	95	67	9	9	8	23	15	1	4	4	2	5	5	10	5	2	17	35	26	22	26	17	131	26.8	130.8
18-Sep-07	45	14	A	6	11	14	14	18	5	2	2	3	9	17	9	1	0	0	1	3	2	2	2	3	7.9	44.5
19-Sep-07	7	A	3	0	0	1	3	13	1	11	2	1	2	15	7	1	4	2	2	3	6	6	6	1	4.2	15.2
20-Sep-07	A	29	72	62	5	23	106	123	39	32	23	45	38	88	79	11	10	7	6	58	56	70	51	A	46.9	122.7
21-Sep-07	3	4	7	112	4	109	81	17	41	52	1	1	20	2	45	65	56	14	73	23	14	9	A	49	34.8	111.9
22-Sep-07	0	2	9	0	47	5	5	3	64	4	62	39	39	0	0	1	3	7	3	6	8	A	0	0	13.4	63.6
23-Sep-07	2	7	6	4	6	5	8	12	5	2	4	6	5	2	0	2	1	3	2	2	A	9	6	3	4.4	11.5
24-Sep-07	0	7	5	15	43	20	34	38	83	43	7	5	0	45	0	32	55	113	21	A	50	40	9	0	28.9	112.7
25-Sep-07	60	72	29	34	1	106	24	44	16	82	5	1	2	54	96	89	4	1	A	148	161	48	104	9	51.7	161.2
26-Sep-07	7	41	47	29	5	79	10	13	7	95	29	29	55	4	7	1	15	8	3	27	20	12	9	23.5	94.7	
27-Sep-07	106	4	A	40	20	35	113	91	32	26	27	162	0	0	1	41	1	23	120	1	0	66	5	87	43.6	162.3
28-Sep-07	4	A	17	143	23	39	124	41	50	36	4	3	38	0	3	6	4	17	8	10	19	16	11	11	27.4	143.4
29-Sep-07	11	4	A	0	0	0	0	6	12	14	16	6	6	3	3	2	3	37	22	35	12	126	58	13	17.0	125.7
30-Sep-07	2	A	183	0	3	50	12	81	38	0	0	74	0	66	113	0	182	4	71	3	3	68	3	89	45.3	183.0
Hourly Avg	19.8	22.2	26.8	21.8	18.0	42.5	40.9	52.5	30.0	30.4	20.0	17.8	15.5	16.6	24.1	12.6	18.3	19.1	28.6	27.0	29.4	34.2	21.6	28.7		
Hourly Max	105.7	95.5	183.0	143.4	80.8	126.1	126.0	176.6	86.4	99.5	98.5	162.3	55.1	87.7	113.2	89.4	181.7	112.7	126.5	147.6	161.8	125.7	103.9	130.8		

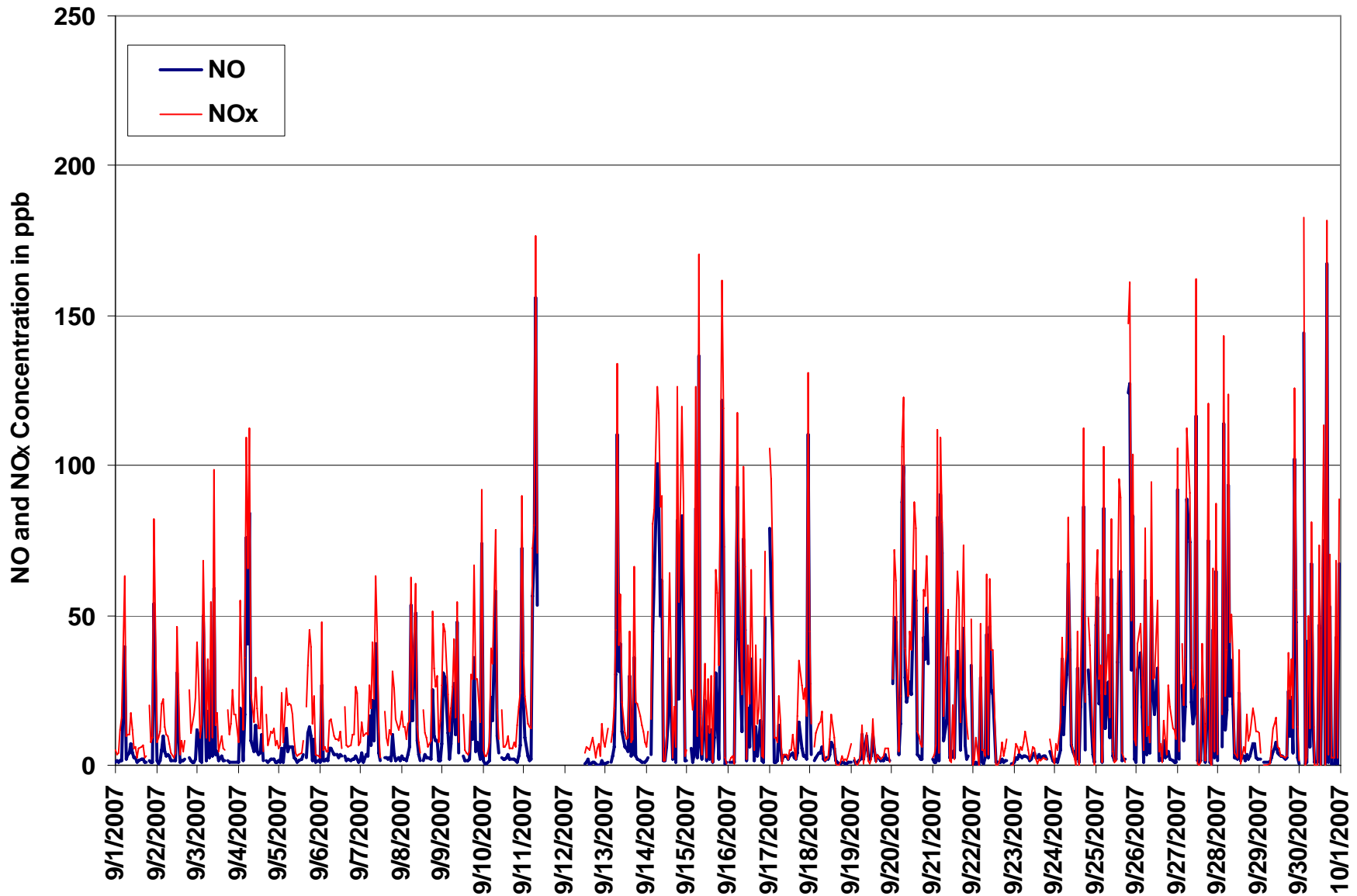


Figure 4. PAS - Crescent Heights Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend



PAS - Crescent Heights Ozone Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

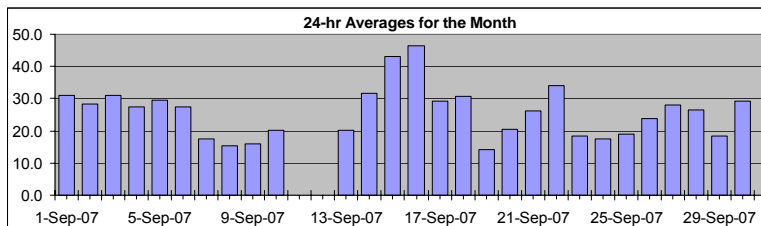
Ozone (O₃)

Monitoring Dates: September 1, 2007 to October 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:	66.3	ppb	15-Sep 13:00 14:00
Maximum 24-hr Average:	46.3	ppb	16-Sep



AIC Time:	32 hrs	Operational Time:	664 hrs
Calibration Time:	7 hrs	AMD Operational Uptime:	97.6%
Percentile	99	95	75
	59.0	45.9	33.5
	24.5	15.9	6.1
	2.8	Average	
	25.4 ppb		Median
	24.5 ppb		24.5 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
1-Sep-07	Hour End	32	33	34	26	17	15	18	19	25	26	35	38	41	41	40	40	40	41	40	A	33	31	28	19	31.0	41.3
2-Sep-07	Hour End	23	19	19	17	17	14	16	18	23	31	37	39	38	38	41	40	41	40	A	33	36	30	24	18	28.3	40.8
3-Sep-07	Hour End	16	18	19	13	9	18	21	23	27	29	36	39	42	46	48	50	51	A	46	43	37	28	28	28	31.1	51.2
4-Sep-07	Hour End	31	16	15	21	20	5	8	6	16	25	30	30	32	40	44	44	A	42	42	38	34	31	32	30	27.5	44.4
5-Sep-07	Hour End	30	29	27	25	20	16	14	17	18	28	33	36	37	38	40	A	41	40	26	23	32	35	37	33	29.4	41.0
6-Sep-07	Hour End	33	31	26	21	24	25	25	24	25	25	25	29	33	35	A	31	33	34	34	30	27	16	21	21	27.3	35.2
7-Sep-07	Hour End	21	18	14	14	13	10	9	5	10	13	16	27	32	A	29	32	31	26	24	15	10	16	13	9	17.6	32.4
8-Sep-07	Hour End	5	7	9	9	5	3	4	6	9	14	19	26	A	30	28	27	27	26	14	11	18	20	22	13	15.2	29.5
9-Sep-07	Hour End	8	1	1	4	4	3	2	7	10	14	23	A	30	31	32	32	32	31	28	14	8	9	20	22	15.9	32.5
10-Sep-07	Hour End	24	25	23	19	15	8	4	9	15	22	A	27	30	31	31	31	31	29	26	23	19	13	4	3	20.0	31.2
11-Sep-07	Hour End	6	5	6	6	6	4	2	3	7	A	30	31	31	31	C	C	C	M	M	M	M	M	M	M	N	31.4
12-Sep-07	Hour End	M	M	M	M	M	M	M	M	M	C	C	C	C	A	23	23	23	25	21	19	22	15	18	N	25.0	
13-Sep-07	Hour End	19	15	A	14	10	7	5	9	12	17	23	28	31	33	34	35	34	30	22	16	16	17	17	17	20.2	35.4
14-Sep-07	Hour End	24	21	A	8	9	8	5	11	29	37	42	45	47	49	50	53	52	47	37	31	24	29	31	35	31.5	53.1
15-Sep-07	Hour End	31	A	30	24	25	26	28	24	33	41	45	49	58	66	65	66	65	60	33	35	36	44	52	53	43.0	66.3
16-Sep-07	Hour End	A	46	45	43	42	37	33	36	40	42	48	53	56	59	60	59	56	52	46	43	42	42	40	A	46.3	59.8
17-Sep-07	Hour End	39	39	37	33	28	29	31	28	31	32	33	31	A	A	34	41	42	38	24	17	17	13	12	10	29.1	42.2
18-Sep-07	Hour End	17	12	A	26	24	20	20	20	27	33	36	37	36	36	41	43	44	44	40	35	33	30	30	26	30.8	44.3
19-Sep-07	Hour End	24	A	20	17	16	15	15	14	13	12	12	13	14	15	14	14	14	14	13	13	11	9	9	12	14.1	24.2
20-Sep-07	Hour End	A	13	15	18	17	14	16	17	20	19	20	23	25	22	23	22	25	30	27	23	18	20	22	A	20.4	30.2
21-Sep-07	Hour End	25	26	27	17	15	12	8	16	23	26	27	31	35	40	43	43	40	37	27	19	22	22	A	24	26.2	42.7
22-Sep-07	Hour End	26	23	25	32	28	23	24	25	26	35	35	40	46	48	49	47	45	42	38	34	28	A	32	31	34.0	48.6
23-Sep-07	Hour End	29	23	23	25	22	19	18	18	21	20	20	19	21	21	21	21	19	13	12	11	A	7	9	10	18.3	28.6
24-Sep-07	Hour End	11	7	8	4	6	3	3	6	12	18	20	23	26	27	30	32	32	27	20	A	20	21	22	24	17.5	32.1
25-Sep-07	Hour End	19	16	17	16	16	11	5	11	12	18	24	30	33	32	33	28	31	31	A	14	13	9	9	9	19.0	33.1
26-Sep-07	Hour End	12	15	14	13	15	14	14	14	19	24	26	34	40	41	37	34	37	34	38	23	23	19	15	15	23.9	41.1
27-Sep-07	Hour End	13	17	A	15	9	3	2	6	12	22	37	40	41	40	41	41	39	36	35	38	40	40	39	35	27.9	41.3
28-Sep-07	Hour End	28	A	19	14	23	20	16	14	12	24	34	38	40	43	43	39	37	32	30	25	20	18	21	22	26.6	43.5
29-Sep-07	Hour End	25	25	A	26	22	23	22	20	16	16	19	17	18	21	21	21	24	22	15	14	12	7	9	11	18.4	26.3
30-Sep-07	Hour End	18	A	21	25	24	22	24	26	30	31	32	38	40	38	37	40	36	33	29	30	28	18	28	27	29.3	39.6
Hourly Avg		21.9	20.1	20.5	18.8	17.3	14.8	14.2	15.5	19.8	24.8	29.2	32.5	35.2	36.8	37.4	36.8	36.5	34.1	29.3	24.9	24.2	21.9	22.8	21.3		
Hourly Max		38.8	46.0	45.0	42.6	42.4	37.1	33.5	36.0	39.5	41.7	48.2	53.1	58.0	66.3	65.0	65.5	64.6	60.3	46.3	43.2	42.2	44.0	51.9	53.3		

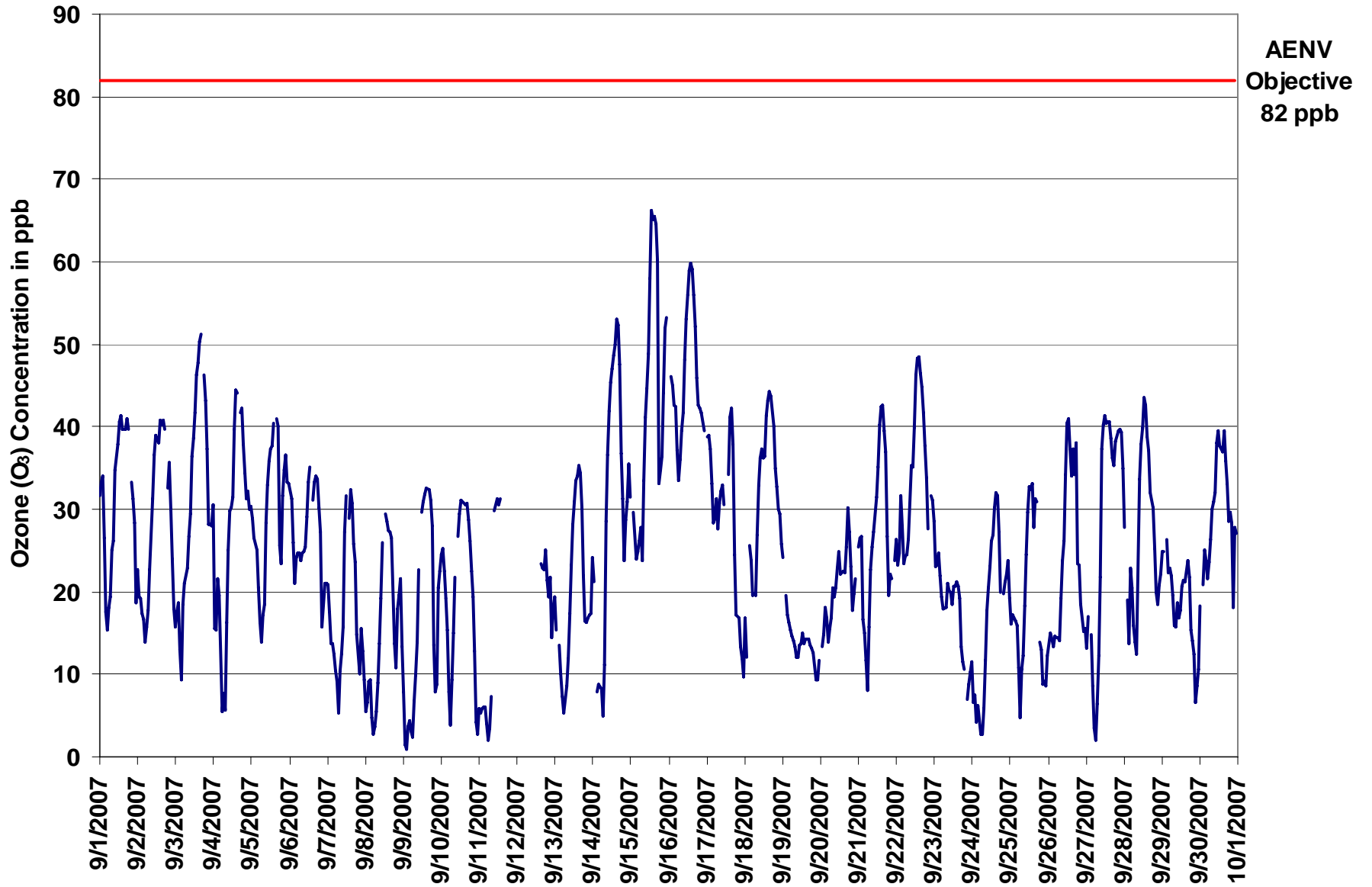


Figure 5. PAS - Crescent Heights Ozone 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

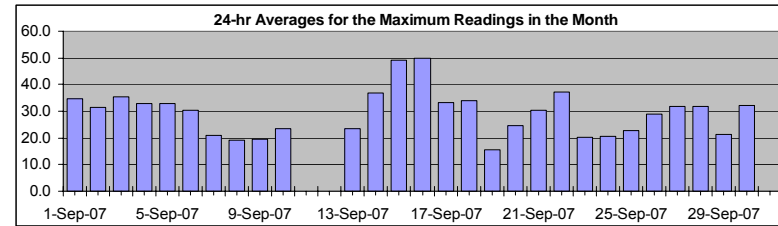
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

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

Summary

Maximum 1-hr Value:	70.1	ppb	15-Sep	13:00 14:00
Maximum 24-hr Value:	49.9	ppb	16-Sep	



AIC Time:	32 hrs	Operational Time:	664 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	97.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	62.8	49.0	37.2	28.1	20.3	9.9	5.2	29.1 ppb	28.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start/End	0:00/1:00	1:00/2:00	2:00/3:00	3:00/4:00	4:00/5:00	5:00/6:00	6:00/7:00	7:00/8:00	8:00/9:00	9:00/10:00	10:00/11:00	11:00/12:00	12:00/13:00	13:00/14:00	14:00/15:00	15:00/16:00	16:00/17:00	17:00/18:00	18:00/19:00	19:00/20:00	20:00/21:00	21:00/22:00	22:00/23:00	23:00/0:00			
1-Sep-07	33	34	40	41	21	20	20	23	29	31	40	40	43	43	42	42	42	42	A	36	35	32	28		34.6	42.8	
2-Sep-07	26	22	22	22	20	17	18	21	27	35	38	40	40	41	42	43	43	43	A	36	38	34	30	30		31.6	43.0
3-Sep-07	22	20	21	18	16	21	24	25	30	38	41	43	45	48	51	53	53	A	51	47	41	37	37	31		35.3	53.1
4-Sep-07	38	27	22	30	25	16	14	15	19	30	38	35	35	43	47	46	A	44	45	41	38	36	35	34		32.8	47.2
5-Sep-07	32	31	28	27	22	21	18	21	22	33	35	38	39	39	43	A	43	43	39	33	36	37	38	36		32.8	43.3
6-Sep-07	34	34	31	24	26	27	28	27	27	28	28	33	37	37	A	38	35	35	36	36	30	24	24	23		30.5	37.7
7-Sep-07	23	21	17	17	15	13	12	11	13	19	25	31	33	A	32	34	33	30	26	21	17	18	16	11		21.1	33.8
8-Sep-07	9	9	12	12	7	6	5	7	12	16	25	29	A	32	31	30	29	30	26	17	22	25	25	20		19.0	31.8
9-Sep-07	14	6	2	8	6	5	4	10	12	18	28	A	31	33	33	33	34	34	31	28	14	15	23	25		19.5	34.0
10-Sep-07	27	28	25	22	18	14	7	16	19	25	A	28	32	33	32	33	33	30	30	24	23	21	13	7		23.5	33.5
11-Sep-07	10	8	8	8	8	7	4	5	12	A	33	33	32	33	C	C	C	M	M	M	M	M	M	M		N	33.5
12-Sep-07	M	M	M	M	M	M	M	M	M	M	C	C	C	C	A	26	25	25	27	24	22	23	22	20		N	27.3
13-Sep-07	22	21	A	15	11	11	9	13	14	22	29	31	33	36	36	37	36	34	29	21	19	22	20	21		23.6	37.0
14-Sep-07	28	27	A	11	23	21	14	18	36	39	45	47	50	51	54	56	55	52	45	36	33	32	37	37		36.8	56.2
15-Sep-07	35	A	33	30	32	31	31	30	41	44	47	53	66	70	67	67	68	68	60	42	48	51	56	55		49.0	70.1
16-Sep-07	A	47	47	45	45	42	37	40	42	47	53	57	60	62	64	62	61	56	52	48	43	44	44	A		49.9	63.8
17-Sep-07	42	42	40	36	30	31	34	32	33	36	35	33	A	A	40	44	44	44	32	24	22	20	20	18		33.3	44.1
18-Sep-07	21	16	A	29	28	25	25	25	31	37	37	40	39	42	44	44	46	45	44	38	35	32	33	28		34.1	46.2
19-Sep-07	27	A	22	18	17	17	16	15	14	13	14	15	15	16	15	15	16	15	14	14	13	11	11	13		15.5	26.9
20-Sep-07	A	15	17	20	20	16	18	19	23	21	23	26	27	26	28	35	36	35	32	27	23	26	27	A		24.5	36.1
21-Sep-07	30	29	29	27	18	15	11	21	26	28	29	35	40	42	46	46	44	41	36	26	26	25	A	26		30.3	46.3
22-Sep-07	28	26	30	35	34	27	27	26	32	39	40	46	50	49	51	49	47	46	41	37	33	A	33	32		37.3	50.5
23-Sep-07	31	25	27	26	24	22	20	22	24	21	21	21	23	22	22	22	21	16	13	13	A	9	11	11		20.3	31.0
24-Sep-07	13	10	9	7	8	4	9	9	16	20	23	25	28	29	33	34	35	32	27	A	25	25	24	25		20.4	34.6
25-Sep-07	23	19	20	19	18	15	10	13	19	21	29	33	35	36	37	34	35	33	A	20	20	15	12	11		22.9	37.0
26-Sep-07	16	16	17	17	16	18	19	17	24	26	31	40	45	44	43	39	41	40	41	45	30	27	27	18		29.0	45.2
27-Sep-07	20	20	A	17	16	7	3	13	25	34	41	43	44	43	43	43	41	40	39	40	41	42	42	39		31.9	43.5
28-Sep-07	32	A	25	22	27	29	25	20	16	35	37	42	44	46	46	44	40	36	34	31	27	22	26	26		31.7	46.0
29-Sep-07	27	27	A	28	24	24	23	21	20	21	21	20	20	23	24	23	28	26	20	16	17	11	12	16		21.5	28.1
30-Sep-07	22	A	25	26	25	23	26	30	31	32	35	41	41	41	40	41	40	35	34	32	31	30	32	31		32.3	41.4
Hourly Avg	25.3	23.3	23.7	22.7	20.8	18.8	17.6	19.5	23.7	28.8	32.9	35.7	37.9	39.3	40.2	39.8	39.4	37.5	35.0	30.3	28.6	26.7	27.1	24.8			
Hourly Max	41.9	47.4	47.2	44.7	45.0	41.7	37.1	40.2	41.7	47.2	53.1	56.7	66.4	70.1	67.3	67.5	67.7	67.6	59.8	48.4	48.1	51.4	55.9	54.9			

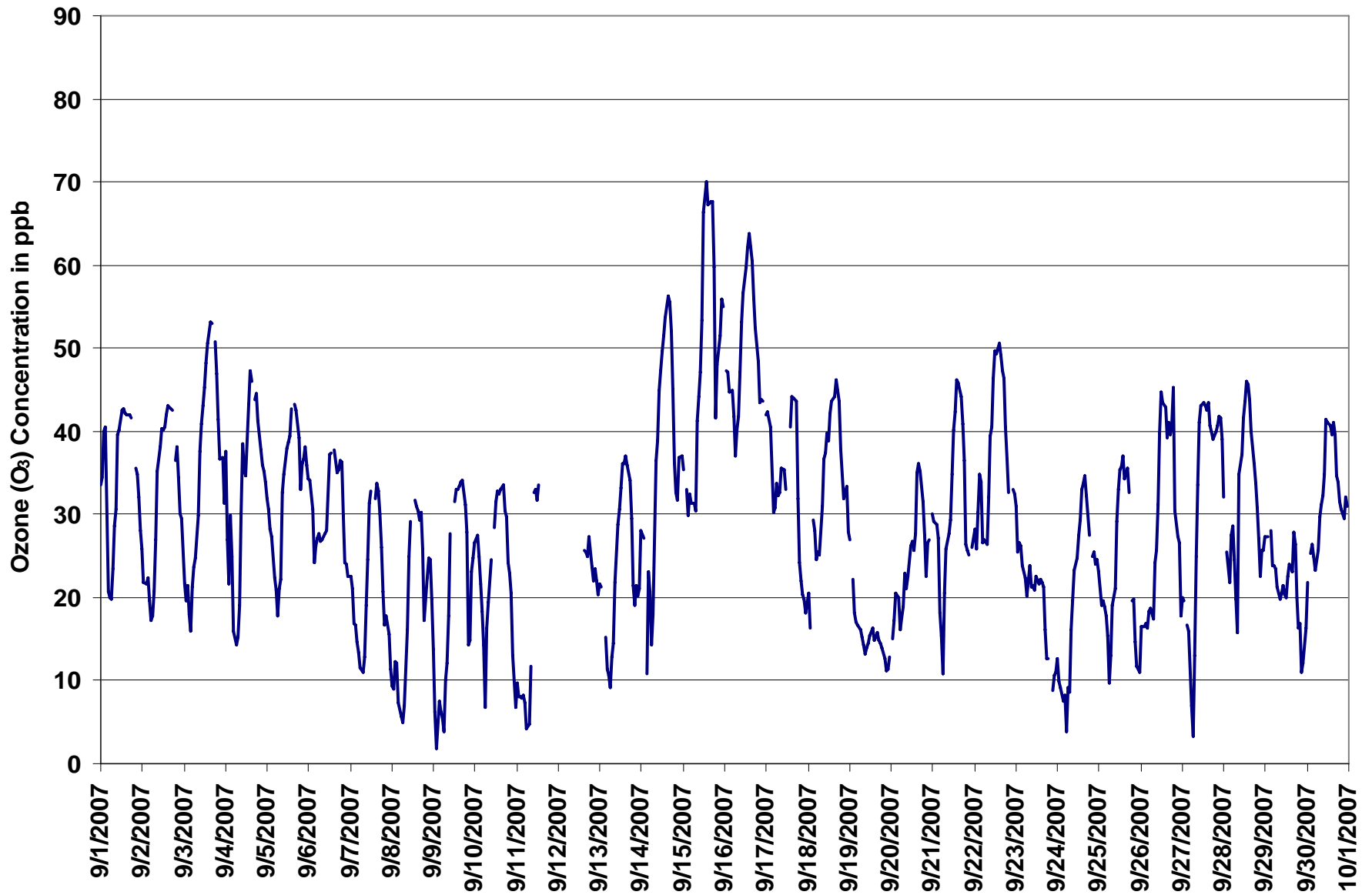
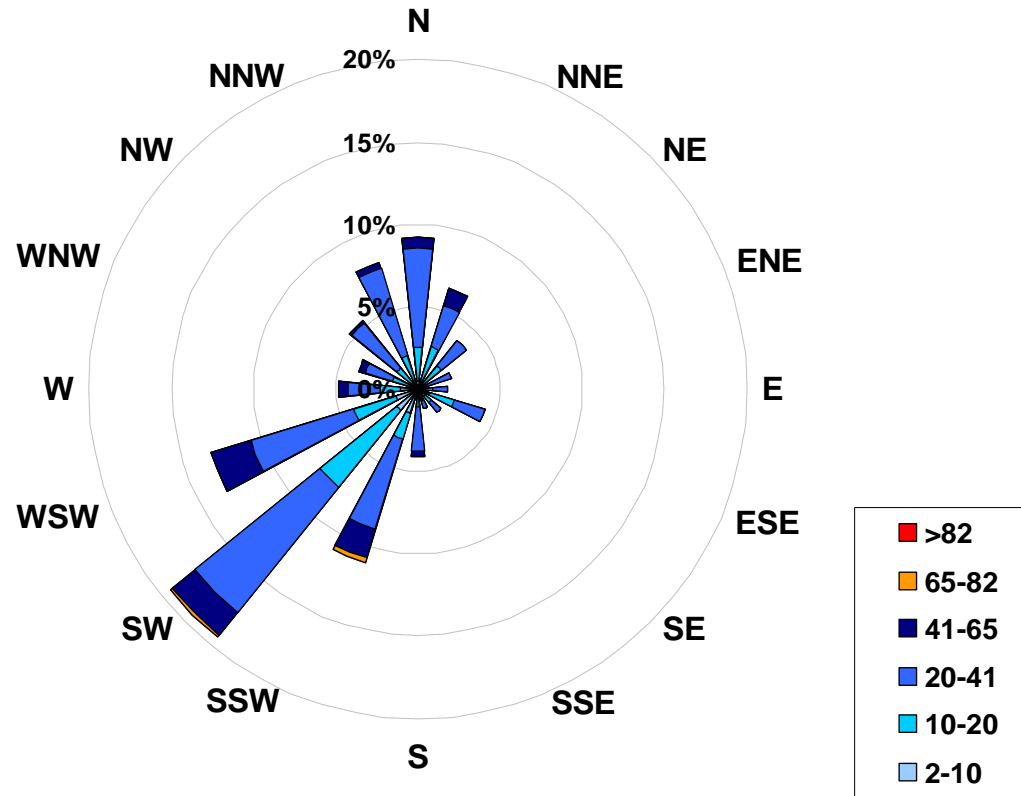


Figure 6. PAS - Crescent Heights Ozone Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms:	0%
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Frequency Distribution of O ₃ in ppb			
Range		Frequency (hrs)	
2.0	< 10	71	
10	to 20	171	
20	to 41	355	
41	to 65	64	
65	to 82	3	
	> 82	0	
Total Non-Zero Values			664



PAS - Crescent Heights Ozone Eight Hour Average Summary

Station: Crescent Heights
Station Owner: PAS

EIGHT HOUR RUNNING AVERAGE TABLE

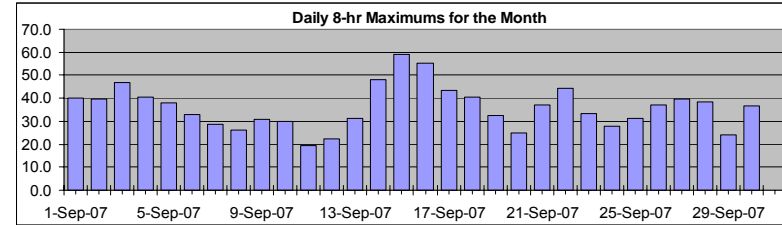
Ozone (O₃)

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

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

Number of 8-hr Exceedances:	0		
Maximum 8-hr Average:	59.1 ppb	15-Sep	17:00 18:00

Percentile	99	95	75	50	25	5	1
	53.9	44.2	32.8	24.2	17.7	9.5	5.0



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																							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-Sep-07	37	36	35	34	31	28	26	24	24	23	23	24	27	30	33	36	37	39	40	40	39	38	36	33	40.2																								
2-Sep-07	31	28	25	24	22	20	18	18	18	19	21	24	27	30	33	36	38	39	40	39	38	37	35	32	39.6																								
3-Sep-07	28	25	24	22	18	17	16	17	18	20	22	25	29	33	36	40	43	45	46	47	46	43	41	37	46.7																								
4-Sep-07	35	32	28	26	23	20	18	15	13	15	16	17	19	23	28	33	35	37	39	40	41	39	38	36	40.7																								
5-Sep-07	35	33	31	30	28	26	24	22	21	21	22	23	25	28	31	33	36	38	37	35	34	34	33	33	37.9																								
6-Sep-07	32	31	31	31	30	29	27	26	25	24	24	25	26	28	28	29	30	32	33	33	32	29	28	27	33.0																								
7-Sep-07	25	23	21	19	17	16	15	13	12	11	11	13	15	16	19	23	26	28	29	27	24	23	21	18	28.6																								
8-Sep-07	15	12	10	10	9	8	6	6	6	7	8	11	11	15	19	22	25	26	26	23	23	21	19	26.3																									
9-Sep-07	16	13	12	11	9	7	5	4	4	6	8	9	13	17	21	24	28	30	31	29	26	23	22	21	30.9																								
10-Sep-07	20	19	18	19	20	20	18	16	15	14	13	14	16	20	23	27	29	30	29	29	28	25	22	18	29.7																								
11-Sep-07	15	12	10	8	6	5	5	5	5	5	8	12	16	19	N	N	N	N	N	N	N	N	N	N	19.4																								
12-Sep-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	22	21	21	22.4																								
13-Sep-07	20	19	19	17	16	14	13	11	10	11	12	14	17	20	23	27	30	31	31	30	28	26	24	21	31.2																								
14-Sep-07	20	19	19	17	16	15	13	12	13	15	19	23	28	33	39	44	47	48	48	46	43	40	38	36	48.2																								
15-Sep-07	33	31	30	29	29	29	28	27	27	29	31	34	38	43	48	53	57	59	58	56	53	50	49	47	59.1																								
16-Sep-07	45	43	44	46	46	45	43	40	40	40	40	41	43	46	49	52	54	55	55	54	52	50	47	46	55.4																								
17-Sep-07	43	41	40	39	37	35	34	33	32	31	31	30	31	N	N	N	N	N	N	N	31	28	26	22	43.3																								
18-Sep-07	19	15	14	15	16	17	18	20	21	24	26	27	29	31	33	36	38	40	40	40	40	39	37	35	40.3																								
19-Sep-07	33	31	28	26	23	21	19	17	16	15	14	14	14	14	13	13	14	14	14	14	13	13	12	12	32.6																								
20-Sep-07	12	11	12	13	13	14	15	16	16	17	18	18	19	20	21	22	23	24	25	25	24	24	23	24	24.7																								
21-Sep-07	24	23	23	22	22	21	19	18	18	18	18	20	22	26	30	33	36	37	37	35	34	31	30	27	36.9																								
22-Sep-07	25	23	23	25	26	26	26	26	26	27	29	30	32	35	38	41	43	44	44	43	41	40	38	35	44.2																								
23-Sep-07	33	30	28	27	26	25	24	22	21	21	20	20	19	20	20	20	20	19	18	17	17	15	13	12	33.2																								
24-Sep-07	10	9	9	8	8	7	6	6	6	7	9	11	14	17	20	24	26	27	27	28	27	26	25	24	27.8																								
25-Sep-07	22	20	20	19	19	18	16	14	13	13	14	16	18	21	24	26	29	30	31	29	26	23	19	16	31.1																								
26-Sep-07	14	12	12	12	12	13	13	14	15	16	18	20	23	27	30	32	34	36	37	36	34	31	28	26	37.1																								
27-Sep-07	23	20	18	17	15	13	11	9	9	10	13	17	21	25	30	34	38	39	39	39	39	39	38	38	39.4																								
28-Sep-07	36	36	34	31	28	25	22	19	17	18	20	23	25	28	31	34	37	38	38	36	34	31	28	26	38.2																								
29-Sep-07	24	23	22	22	23	23	24	23	22	21	20	19	19	18	18	18	19	20	20	20	19	17	15	14	24.2																								
30-Sep-07	13	12	13	15	16	18	21	23	24	25	27	28	30	32	34	36	36	37	36	35	34	31	30	29	36.6																								

Hourly Max 44.8 42.8 44.5 45.6 46.5 45.5 42.8 40.4 40.3 39.7 40.1 41.4 43.1 45.9 49.2 52.9 56.8 59.1 57.7 55.9 53.2 50.5 48.8 47.3



PAS - Crescent Heights Carbon Monoxide Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

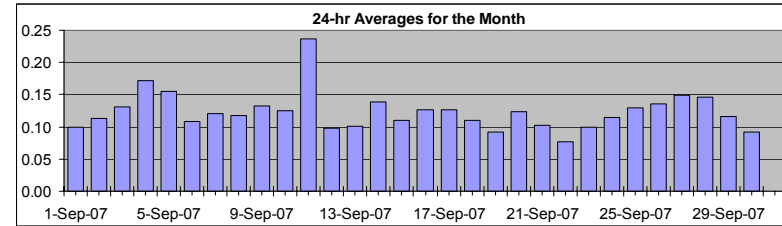
HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

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

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

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	0.7	ppm	11-Sep	7:00 8:00
Maximum 24-hr Value:	0.2	ppm	11-Sep	



AIC Time:	33 hrs	Operational Time:	684 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.5	0.2	0.1	0.1	0.1	0.1	0.0	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			23:00
1-Sep-07	0.1	0.0	0.0	0.1	0.1	0.1	0.1	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	0.10	0.15
2-Sep-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	0.2	0.2	0.2	0.2	0.2	0.11	0.20
3-Sep-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	0.2	0.2	0.2	0.1	0.13	0.19	
4-Sep-07	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.17	0.42	
5-Sep-07	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.16	0.34	
6-Sep-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	A	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.11	0.16	
7-Sep-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.1	0.0	A	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.12	0.29	
8-Sep-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	A	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.12	0.25	
9-Sep-07	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.2	0.1	0.13	0.28	
10-Sep-07	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	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	0.1	0.13	0.24	
11-Sep-07	0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.7	0.5	A	0.1	0.1	C	C	C	A	0.1	0.1	0.1	0.2	0.3	0.5	0.5	0.4	0.24	0.69	
12-Sep-07	0.3	0.1	A	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.1	A	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10	0.27	
13-Sep-07	0.1	0.1	A	0.1	0.1	0.1	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.10	0.26	
14-Sep-07	0.1	0.1	A	0.1	0.1	0.2	0.6	0.5	0.1	0.0	0.0	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	0.14	0.65	
15-Sep-07	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	0.3	0.2	0.2	0.1	0.1	0.11	0.31	
16-Sep-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	0.1	0.2	0.2	0.1	0.1	A	0.13	0.17	
17-Sep-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	0.1	0.13	0.25	
18-Sep-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	0.18	
19-Sep-07	0.1	A	0.0	0.0	0.0	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	0.1	0.1	0.1	0.1	0.09	0.22	
20-Sep-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	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.1	A	0.12	0.16	
21-Sep-07	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	0.2	0.1	0.1	A	0.10	0.18	
22-Sep-07	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	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	0.08	0.12	
23-Sep-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	A	0.1	0.1	0.10	0.12	
24-Sep-07	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	A	0.1	0.1	0.1	0.11	0.27	
25-Sep-07	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	A	0.2	0.2	0.2	0.1	0.13	0.22	
26-Sep-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	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.14	0.23	
27-Sep-07	0.1	0.1	A	0.1	0.1	0.2	0.4	0.5	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15	0.46	
28-Sep-07	0.1	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.15	0.28	
29-Sep-07	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	0.2	0.2	0.1	0.1	0.1	0.12	0.17	
30-Sep-07	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	0.1	0.1	0.2	0.1	0.09	0.17	
Hourly Avg	0.10	0.10	0.09	0.09	0.10	0.13	0.19	0.20	0.14	0.11	0.10	0.10	0.09	0.10	0.10	0.10	0.10	0.10	0.12	0.15	0.17	0.15	0.14	0.13	0.12		
Hourly Max	0.27	0.20	0.19	0.15	0.19	0.22	0.65	0.69	0.48	0.22	0.19	0.18	0.16	0.22	0.17	0.16	0.15	0.18	0.32	0.34	0.27	0.45	0.50	0.42			

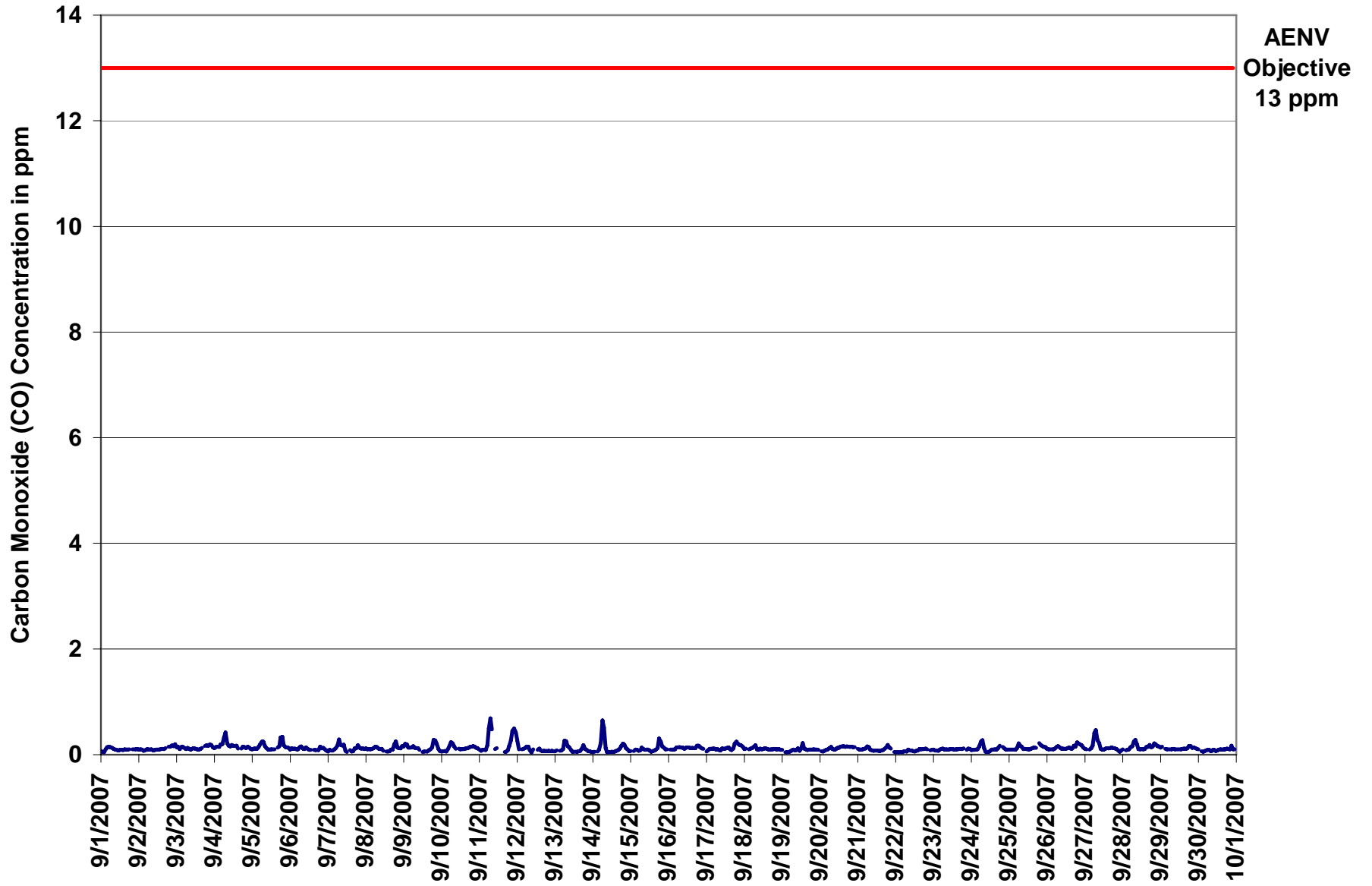


Figure 7. PAS - Crescent Heights Carbon Monoxide 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

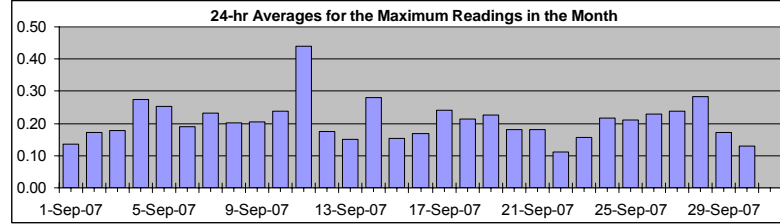
Carbon Monoxide (CO)

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

Summary

Maximum 1-hr Value:	1.6	ppm	11-Sep	6:00 7:00
Maximum 24-hr Value:	0.4	ppm	11-Sep	

AIC Time:	33 hrs	Operational Time:	684 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.9	0.5	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 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-Sep-07	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	A	0.1	0.1	0.1	0.1	0.13	0.30
2-Sep-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	0.2	0.2	0.2	0.4	A	0.3	0.2	0.3	0.3	0.4	0.17	0.44
3-Sep-07	0.3	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	A	0.2	0.2	0.2	0.2	0.3	0.1	0.18	0.30
4-Sep-07	0.1	0.1	0.2	0.1	0.3	0.4	0.5	0.8	0.3	0.3	0.2	0.3	0.2	0.3	0.4	0.1	A	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.27	0.80
5-Sep-07	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	A	0.3	0.3	0.8	0.8	0.2	0.1	0.1	0.25	0.84
6-Sep-07	0.1	0.2	0.1	0.2	0.1	0.1	0.5	0.4	0.2	0.1	0.3	0.2	0.2	0.3	A	0.1	0.1	0.2	0.1	0.2	0.3	0.2	0.1	0.1	0.19	0.46
7-Sep-07	0.2	0.1	0.1	0.1	0.2	0.3	0.7	0.7	0.3	0.3	0.3	0.2	0.1	A	0.1	0.1	0.1	0.5	0.2	0.3	0.2	0.2	0.3	0.2	0.23	0.72
8-Sep-07	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	A	0.2	0.1	0.1	0.2	0.2	0.4	0.5	0.3	0.2	0.2	0.3	0.20	0.51
9-Sep-07	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	A	0.1	0.1	0.1	0.1	0.1	0.3	0.9	0.4	0.3	0.2	0.1	0.20	0.91	
10-Sep-07	0.1	0.2	0.1	0.1	0.2	0.5	0.4	0.3	0.2	0.2	A	0.2	0.1	0.1	0.3	0.4	0.2	0.2	0.3	0.3	0.3	0.4	0.2	0.1	0.24	0.54
11-Sep-07	0.1	0.1	0.1	0.1	0.1	0.3	1.6	1.4	0.8	A	0.2	0.2	C	C	C	A	0.1	0.1	0.1	0.4	0.8	0.7	0.6	0.5	0.44	1.55
12-Sep-07	0.5	0.1	A	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.3	A	A	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.18	0.51
13-Sep-07	0.1	0.1	A	0.1	0.1	0.2	0.5	0.5	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.15	0.51
14-Sep-07	0.1	0.2	A	0.1	0.2	0.5	1.5	1.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.28	1.53
15-Sep-07	0.1	A	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	0.2	0.5	0.4	0.2	0.2	0.1	0.1	0.1	0.15	0.45
16-Sep-07	A	0.1	0.1	0.1	0.1	0.2	0.1	0.3	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	A	0.17	0.33
17-Sep-07	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.6	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.5	0.3	0.3	0.3	0.3	0.24	0.57
18-Sep-07	0.1	0.2	A	0.1	0.2	0.2	0.4	0.4	0.1	0.1	0.7	0.2	0.2	0.4	0.4	0.2	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.1	0.21	0.73
19-Sep-07	0.1	A	0.0	0.0	0.1	0.1	0.1	0.3	0.3	0.4	0.5	0.1	0.3	1.2	0.4	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.23	1.20
20-Sep-07	A	0.2	0.1	0.1	0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	A	0.18	0.35
21-Sep-07	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.3	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.3	0.2	0.3	A	0.1	0.18	0.33
22-Sep-07	0.0	0.1	0.0	0.1	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	0.2	0.1	A	0.1	0.1	0.11	0.18
23-Sep-07	0.2	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	0.1	0.2	0.2	0.1	0.2	0.1	A	0.1	0.1	0.1	0.16	0.25
24-Sep-07	0.1	0.1	0.1	0.1	0.1	0.2	0.9	0.9	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	A	0.2	0.2	0.1	0.1	0.22	0.94
25-Sep-07	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.1	A	0.6	0.6	0.2	0.2	0.2	0.21	0.62
26-Sep-07	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.1	0.1	0.3	0.2	0.2	0.2	0.3	0.1	0.2	0.2	0.2	0.4	0.3	0.2	0.2	0.3	0.23	0.45
27-Sep-07	0.1	0.1	A	0.1	0.1	0.2	0.8	1.0	0.3	0.3	0.2	0.2	0.1	0.3	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.24	0.98
28-Sep-07	0.1	A	0.1	0.1	0.2	0.2	0.2	0.9	0.4	0.3	0.1	0.2	0.2	0.1	0.1	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.2	0.2	0.28	0.91
29-Sep-07	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	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.17	0.35
30-Sep-07	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	0.2	0.2	0.1	0.4	0.2	0.1	0.13	0.40
Hourly Avg	0.14	0.15	0.11	0.12	0.14	0.21	0.40	0.42	0.22	0.17	0.22	0.15	0.15	0.23	0.19	0.16	0.16	0.20	0.24	0.32	0.25	0.23	0.18	0.16		
Hourly Max	0.51	0.25	0.20	0.20	0.35	0.54	1.55	1.36	0.80	0.37	0.73	0.30	0.33	1.20	0.44	0.31	0.45	0.48	0.77	0.91	0.84	0.67	0.57	0.51		

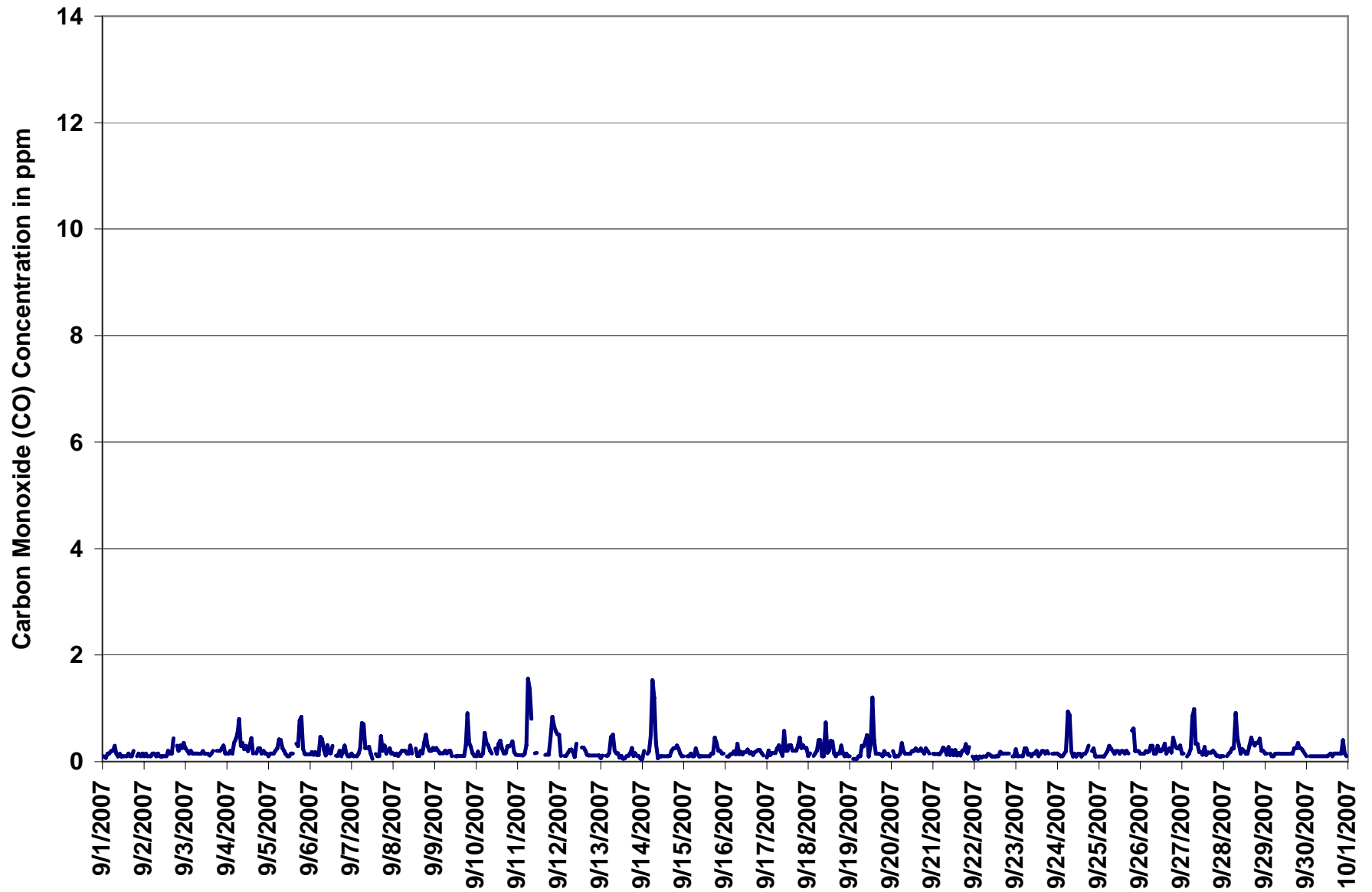
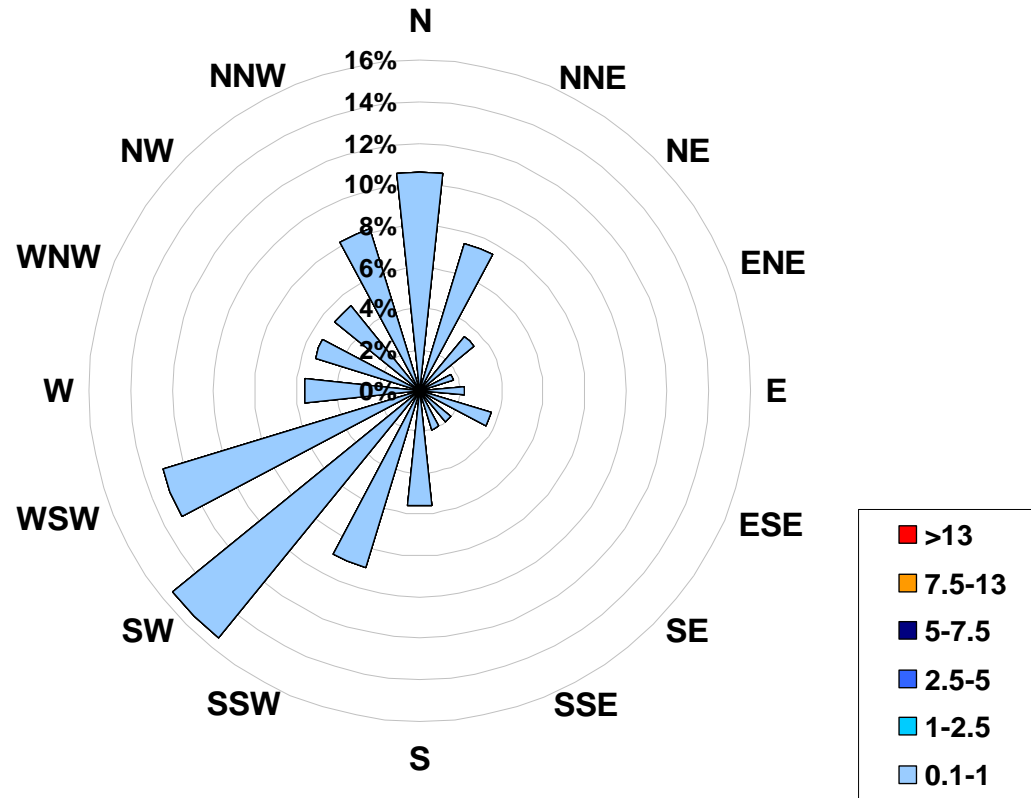


Figure 8. PAS - Crescent Heights Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

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



PAS - Crescent Heights Carbon Monoxide Eight Hour Average Summary

Station: Crescent Heights
 Station Owner: PAS

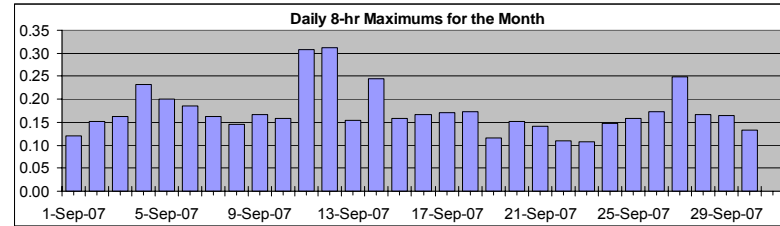
EIGHT HOUR RUNNING AVERAGE TABLE

Carbon Monoxide (CO)

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

Objective Limit: Alberta Environment: 8-hr 5 ppm

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	0.3	ppm	12-Sep	2:00	3:00		



Percentile	99	95	75	50	25	5	1
	0.3	0.2	0.1	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	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-Sep-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
2-Sep-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	0.15
3-Sep-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	0.2	0.2	0.16
4-Sep-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.23
5-Sep-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	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.20
6-Sep-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	0.19
7-Sep-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	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.16
8-Sep-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	0.15
9-Sep-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.17
10-Sep-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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.16
11-Sep-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	N	N	N	N	N	N	N	N	N	N	0.2	0.2	0.31
12-Sep-07	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	N	N	N	N	N	N	N	0.1	0.1	0.1	0.1	0.1	0.31
13-Sep-07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15
14-Sep-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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.24
15-Sep-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	0.16
16-Sep-07	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
17-Sep-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	0.17
18-Sep-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	0.17
19-Sep-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
20-Sep-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	0.1	0.1	0.15
21-Sep-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
22-Sep-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	0.11
23-Sep-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	0.11
24-Sep-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	0.15
25-Sep-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	0.16
26-Sep-07	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	0.2	0.2	0.2	0.2	0.17
27-Sep-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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.25
28-Sep-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	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.17
29-Sep-07	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	0.17
30-Sep-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

Hourly Max 0.28 0.28 0.31 0.30 0.28 0.23 0.18 0.23 0.27 0.30 0.30 0.31 0.23 0.22 0.20 0.17 0.16 0.15 0.15 0.18 0.19 0.19 0.22 0.25



PAS - Crescent Heights Total Hydrocarbons Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

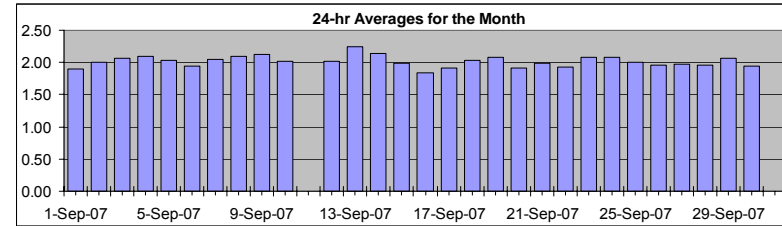
HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)

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

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

Maximum 1-hr Average:	2.9	ppm	25-Sep	23:00 0:00
Maximum 24-hr Value:	2.2	ppm	13-Sep	



AIC Time:	30 hrs	Operational Time:	680 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.5	2.3	2.1	2.0	1.9	1.9	1.8	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	23:00		
1-Sep-07	1.7	1.7	1.8	1.9	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	2.1	2.1	2.0	2.0	1.90	2.11
2-Sep-07	2.0	2.0	2.0	2.0	2.1	2.3	2.2	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	2.1	2.1	2.1	2.1	2.1	2.00	2.34
3-Sep-07	2.3	2.3	2.4	2.3	2.5	2.1	2.0	2.0	2.0	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	A	2.0	2.0	2.1	2.2	2.0	2.0	2.0	2.06	2.49
4-Sep-07	2.3	2.4	2.3	2.3	2.2	2.2	2.4	2.3	2.1	1.9	1.9	2.0	2.1	2.0	2.0	1.9	A	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.10	2.45
5-Sep-07	2.1	2.1	2.2	2.1	2.2	2.3	2.4	2.2	2.2	2.1	2.0	1.9	1.9	1.9	1.9	A	1.9	1.9	2.0	2.2	2.0	1.8	1.8	1.8	2.04	2.37	
6-Sep-07	1.8	1.8	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.1	2.1	1.94	2.13	
7-Sep-07	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.0	1.9	A	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.05	2.15
8-Sep-07	2.2	2.2	2.2	2.1	2.2	2.2	2.3	2.2	2.2	2.1	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.2	2.09	2.25	
9-Sep-07	2.2	2.3	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.2	2.0	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.1	2.0	2.0	2.13	2.42	
10-Sep-07	2.0	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.2	2.3	2.3	2.02	2.28	
11-Sep-07	2.5	2.2	2.2	2.3	2.3	2.3	2.6	2.7	2.4	M	M	M	M	M	M	M	C	C	C	A	2.3	2.4	2.6	2.5	N	2.66	
12-Sep-07	2.4	1.9	A	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.9	A	A	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.02	2.40	
13-Sep-07	2.1	2.2	2.2	2.3	2.4	2.4	2.6	2.5	2.4	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.2	2.1	2.2	2.24	2.58	
14-Sep-07	2.2	2.3	2.4	2.6	2.5	2.4	2.7	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	2.1	2.0	2.0	2.14	2.65	
15-Sep-07	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	1.9	1.9	1.9	1.9	1.98	2.10	
16-Sep-07	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	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	A	1.84	1.89	
17-Sep-07	1.7	1.8	1.9	2.1	1.9	1.8	1.8	1.8	1.9	1.9	1.9	1.9	A	A	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.1	2.2	1.92	2.16		
18-Sep-07	2.1	2.2	A	2.0	2.1	2.1	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.1	2.0	2.1	2.03	2.17	
19-Sep-07	2.2	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.08	2.15	
20-Sep-07	A	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	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.91	1.99	
21-Sep-07	1.9	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	A	1.9	1.99	2.09	
22-Sep-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	1.9	1.9	1.9	2.0	2.0	2.0	2.1	A	2.0	2.0	1.93	2.07	
23-Sep-07	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.2	2.1	2.0	2.0	2.0	2.0	2.1	2.1	A	2.1	2.1	2.1	2.08	2.18	
24-Sep-07	2.1	2.1	2.1	2.2	2.2	2.3	2.3	2.3	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	A	2.0	2.0	2.0	2.0	2.08	2.31	
25-Sep-07	1.9	2.0	1.9	1.9	2.0	2.0	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	2.0	2.1	2.1	2.9	2.00	2.93	
26-Sep-07	2.2	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	2.0	1.9	2.0	1.9	2.0	2.0	2.1	2.1	2.0	1.96	2.20	
27-Sep-07	2.0	2.0	A	2.0	2.1	2.1	2.2	2.2	2.1	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	1.98	2.23	
28-Sep-07	2.0	A	2.0	2.0	2.0	1.9	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	2.1	2.1	2.1	2.0	1.96	2.13	
29-Sep-07	2.2	2.0	A	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.07	2.25	
30-Sep-07	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.95	2.04	
Hourly Avg	2.07	2.06	2.07	2.09	2.10	2.10	2.13	2.11	2.05	1.99	1.96	1.95	1.95	1.94	1.94	1.94	1.94	1.95	1.98	2.02	2.03	2.06	2.06	2.09			
Hourly Max	2.48	2.45	2.45	2.60	2.49	2.45	2.65	2.66	2.40	2.28	2.21	2.16	2.18	2.14	2.12	2.12	2.11	2.12	2.15	2.28	2.30	2.40	2.57	2.93			

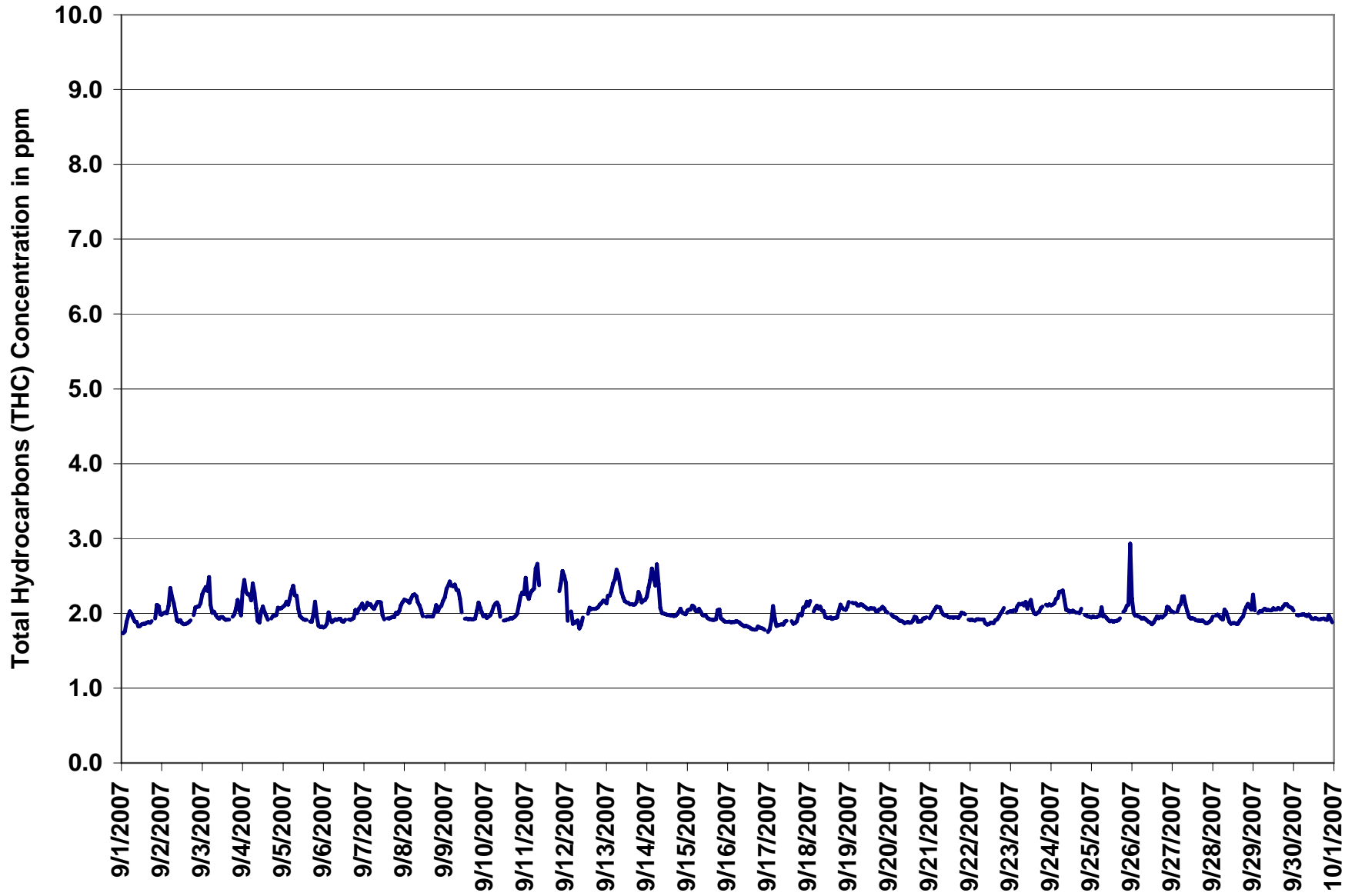


Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

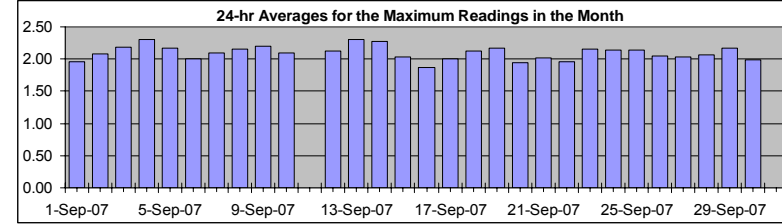
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Hydrocarbons (THC)

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

Summary

Maximum 1-hr Value:	4.8	ppm	25-Sep	23:00 0:00
Maximum 24-hr Value:	2.3	ppm	4-Sep	



AIC Time:	30 hrs	Operational Time:	680 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.0	2.5	2.2	2.0	2.0	1.9	1.8	2.1 ppm	2.0 ppm

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	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-Sep-07	1.8	1.8	1.8	2.0	2.0	2.3	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	A	2.0	2.2	2.2	2.0	1.96	2.29
2-Sep-07	2.0	2.0	2.1	2.1	2.3	2.5	2.3	2.2	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	A	2.1	2.2	2.2	2.2	2.3	2.08	2.45
3-Sep-07	3.0	2.6	2.4	2.4	2.6	2.3	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	1.9	1.9	2.0	A	2.0	2.1	2.2	2.3	2.1	2.0	2.18	3.01
4-Sep-07	3.9	3.0	2.6	2.4	2.4	2.4	2.6	2.6	2.2	2.0	2.0	2.1	2.1	2.1	2.1	2.0	A	2.0	2.0	2.1	2.0	2.2	2.2	2.1	2.31	3.92
5-Sep-07	2.2	2.2	2.3	2.2	2.3	2.4	2.5	2.4	2.3	2.2	2.0	2.0	1.9	1.9	1.9	A	1.9	1.9	2.9	2.6	2.2	1.9	1.9	1.9	2.17	2.89
6-Sep-07	1.8	1.9	1.9	2.2	2.0	1.9	2.0	2.0	2.0	2.0	2.1	1.9	1.9	1.9	A	1.9	2.0	2.1	2.0	2.1	2.1	2.1	2.2	2.2	2.00	2.18
7-Sep-07	2.1	2.1	2.2	2.1	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.0	1.9	A	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.2	2.2	2.10	2.24
8-Sep-07	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.2	2.1	2.1	2.0	A	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.1	2.2	2.2	2.3	2.15	2.32
9-Sep-07	2.3	2.4	2.5	2.5	2.5	2.4	2.5	2.3	2.4	2.3	2.1	A	2.0	2.0	1.9	1.9	1.9	2.0	2.4	2.2	2.1	2.1	2.0	2.0	2.20	2.51
10-Sep-07	2.0	2.0	2.0	2.0	2.1	2.3	2.2	2.2	2.2	2.1	A	1.9	1.9	2.0	1.9	2.0	2.0	2.0	2.0	2.1	2.2	2.4	2.4	2.3	2.09	2.39
11-Sep-07	3.3	2.7	2.3	2.4	2.5	2.5	3.0	2.8	2.6	M	M	M	M	M	M	M	C	C	C	A	2.5	2.5	3.1	2.7	N	3.26
12-Sep-07	2.6	2.0	A	2.6	1.9	1.9	1.9	2.1	1.9	1.9	2.1	A	A	2.1	2.1	2.3	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.12	2.62
13-Sep-07	2.1	2.3	2.3	2.4	2.4	2.5	2.8	2.8	2.4	2.4	2.3	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.4	2.3	2.2	2.2	2.2	2.30	2.77
14-Sep-07	2.4	2.4	2.6	2.7	2.7	2.6	3.4	2.9	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.2	2.0	2.0	2.0	2.27	3.38
15-Sep-07	2.1	2.1	2.2	2.2	2.2	2.1	2.0	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.2	2.1	2.0	1.9	1.9	1.9	2.03	2.24
16-Sep-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	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.8	1.8	1.8	A	1.86	1.92
17-Sep-07	1.8	1.8	2.0	2.1	2.1	1.9	1.9	1.9	2.1	1.9	2.1	1.9	A	A	2.0	1.9	1.9	2.0	2.0	2.1	2.0	2.1	2.2	2.2	2.00	2.20
18-Sep-07	2.2	2.3	A	2.1	2.1	2.3	2.2	2.4	2.1	2.2	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.3	2.3	2.1	2.1	2.13	2.45
19-Sep-07	2.4	A	2.2	2.2	2.2	2.1	2.2	2.3	2.2	2.1	2.4	2.1	2.2	2.3	2.1	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.0	2.16	2.38
20-Sep-07	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	2.0	2.0	2.0	1.9	1.9	1.9	2.0	2.0	2.0	A	1.95	2.04
21-Sep-07	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	A	1.9	2.02	2.12
22-Sep-07	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.1	A	2.0	2.1	1.97	2.13
23-Sep-07	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.2	2.2	2.2	2.1	2.2	2.3	2.1	2.0	2.0	2.0	2.1	2.1	2.1	A	2.2	2.2	2.2	2.15	2.32
24-Sep-07	2.1	2.1	2.2	2.2	2.2	2.3	2.5	2.7	2.3	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	A	2.0	2.0	2.0	2.0	2.14	2.68
25-Sep-07	2.0	2.0	2.0	2.0	2.0	2.0	2.4	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	1.9	2.0	A	2.1	2.1	2.1	2.2	4.8	2.14	4.82
26-Sep-07	3.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.04	2.99
27-Sep-07	2.0	2.0	A	2.1	2.1	2.2	2.4	2.5	2.2	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.04	2.51
28-Sep-07	2.0	A	2.0	2.0	2.1	2.0	2.0	2.4	2.1	2.0	1.9	1.9	1.9	2.3	2.0	1.9	2.0	2.1	2.0	2.2	2.1	2.3	2.2	2.1	2.06	2.37
29-Sep-07	3.3	2.1	A	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	2.1	2.2	2.2	2.2	2.2	2.2	2.1	2.16	3.29
30-Sep-07	2.1	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	1.9	2.0	2.3	2.0	1.9	2.00	2.30
Hourly Avg	2.30	2.15	2.14	2.17	2.18	2.19	2.25	2.24	2.13	2.05	2.04	1.99	1.99	2.00	1.98	1.98	1.98	1.99	2.07	2.12	2.11	2.14	2.13	2.20		
Hourly Max	3.92	3.05	2.63	2.67	2.68	2.57	3.38	2.93	2.61	2.36	2.38	2.23	2.26	2.35	2.15	2.26	2.13	2.15	2.89	2.61	2.51	2.51	3.07	4.82		

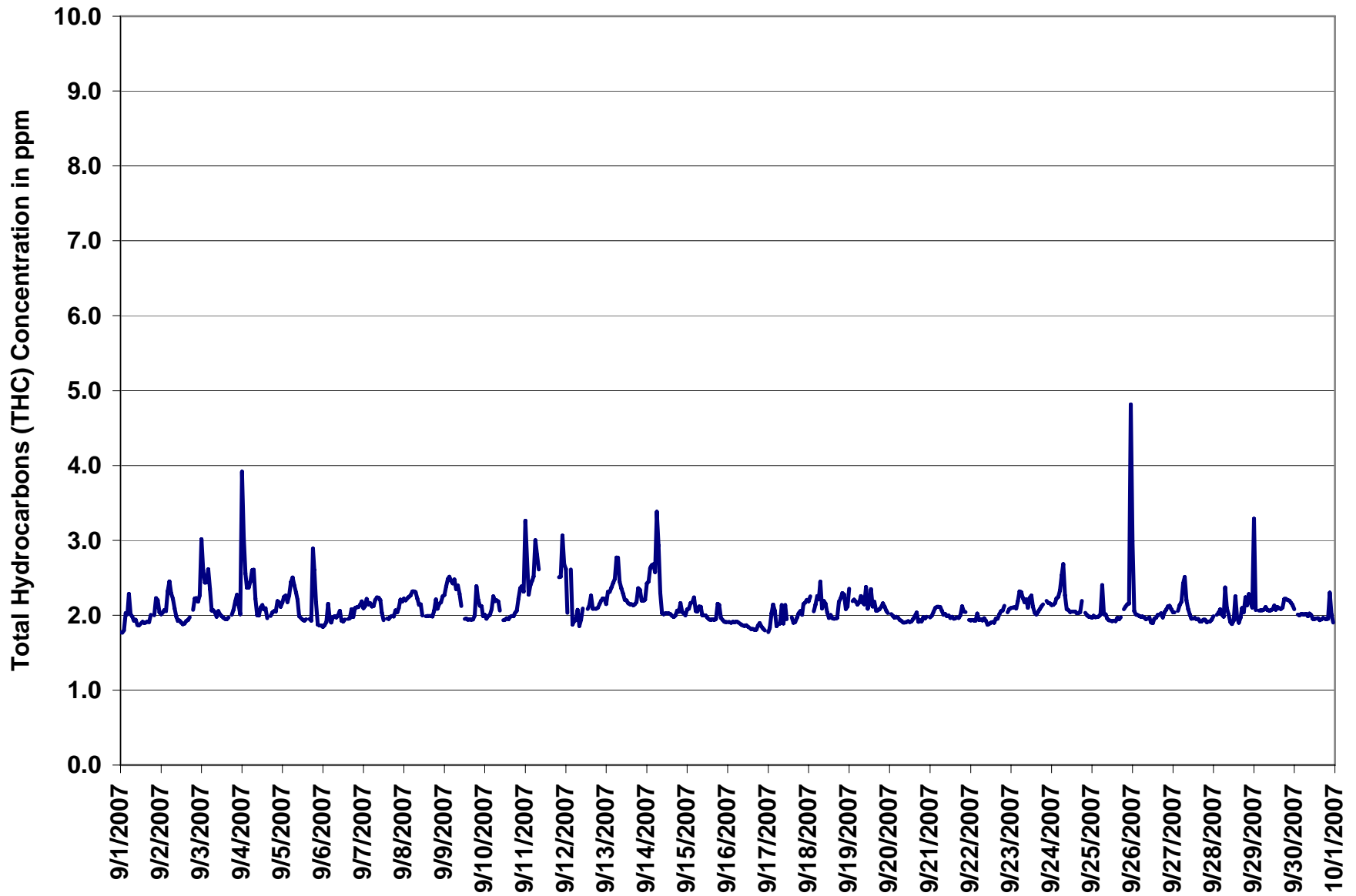
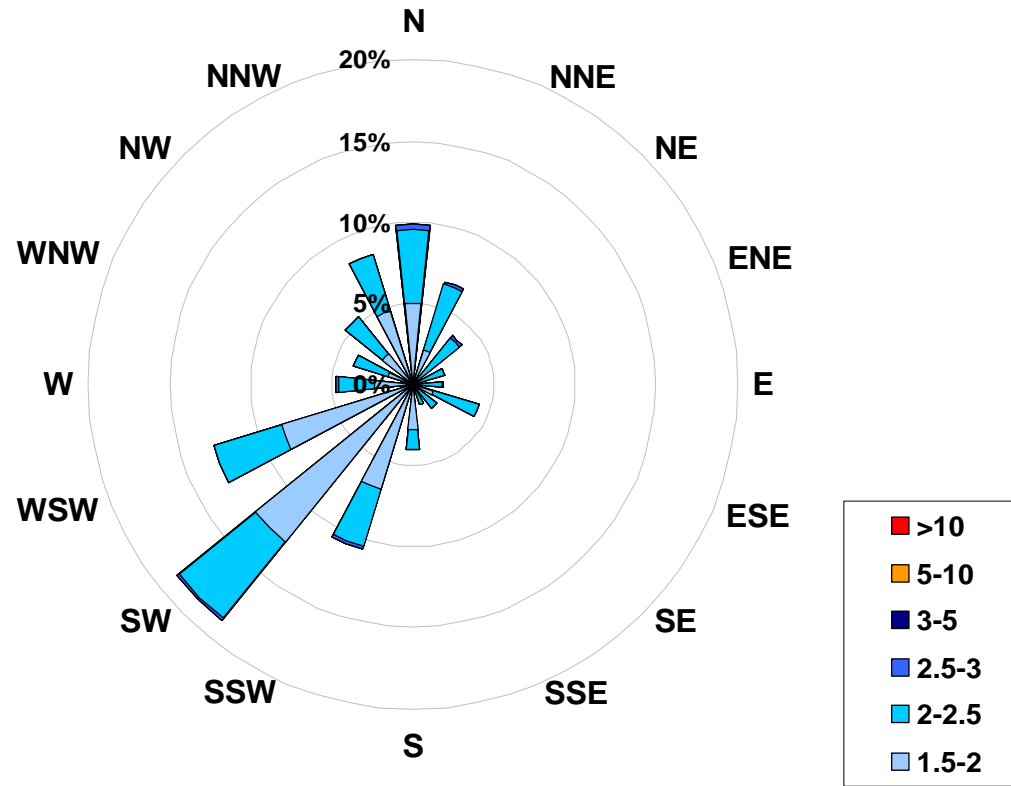


Figure 10. PAS - Crescent Heights Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of THC in ppm			
Range		Frequency (hrs)	
1.5	< 2	349	
2	to 2.5	323	
2.5	to 3	8	
3	to 5	0	
5	to 10	0	
	> 10	0	
Total Non-Zero Values			680



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

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

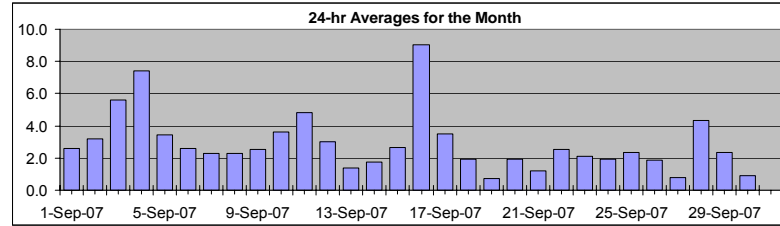
Particulate Matter (PM_{2.5})

Monitoring Dates: September 1, 2007 to October 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:	20.7 µg/m ³ 1-Sep 3:00 4:00
Maximum 24-hr Value:	9.1 µg/m ³ 16-Sep

AIC Time:	0 hrs	Operational Time:	708 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	98.9%
Percentile	99	95	75
	13.1	8.8	3.8
		50	2.2
		25	1.0
		5	0.0
		1	0.0
	Average / Median		
	2.9		2 µg/m ³
			2.5 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-Sep-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		
1-Sep-07		2	0	0	21	7	7	3	3	0	2	1	3	2	0	1	0	0	0	0	3	1	1	2	4	2.6	20.7
2-Sep-07		2	4	2	1	3	2	4	4	3	0	2	2	0	3	3	4	5	0	5	4	8	6	3	7	3.2	7.7
3-Sep-07		3	8	3	8	5	4	4	6	4	4	8	6	6	5	4	5	7	6	7	6	6	5	7	7	5.6	8.3
4-Sep-07		7	6	9	5	6	15	9	12	10	11	9	14	15	7	5	3	3	6	7	4	5	5	3	3	7.4	15.4
5-Sep-07		4	4	5	3	4	3	4	4	7	0	D	0	0	1	1	4	4	8	6	4	2	9	1	3.5	9.2	
6-Sep-07		2	4	4	11	4	1	1	0	1	1	2	0	0	0	0	19	0	0	0	4	2	3	1	1	2.6	19.2
7-Sep-07		0	1	1	1	1	1	1	4	6	2	1	D	0	0	1	2	8	9	2	5	2	1	2	1	2.3	8.9
8-Sep-07		2	0	1	0	0	0	4	3	4	3	0	D	0	0	0	6	0	6	7	6	3	2	2	3	2.3	6.8
9-Sep-07		3	3	4	2	3	2	3	3	4	4	0	0	D	1	0	2	3	4	6	6	3	2	1	2.5	6.1	
10-Sep-07		2	3	2	4	3	5	5	8	10	7	5	3	1	0	3	4	5	4	2	4	3	0	2	3	3.6	10.2
11-Sep-07		2	2	2	3	3	2	4	9	8	0	D	0	1	0	1	3	5	4	5	6	10	13	17	8	4.8	17.4
12-Sep-07		6	12	3	4	3	2	3	D	D	C	C	C	3	1	3	3	3	2	2	1	1	0	2	2	3.0	11.8
13-Sep-07		0	1	1	0	0	1	2	4	4	3	1	1	0	0	0	1	1	1	2	2	2	1	1	2	1.4	4.2
14-Sep-07		0	1	1	1	1	2	4	5	3	1	0	0	1	0	0	1	1	1	4	3	4	4	3	1	1.8	5.4
15-Sep-07		2	1	2	3	1	1	2	7	4	4	4	4	0	0	0	0	0	2	6	6	4	4	3	3	2.6	6.8
16-Sep-07		3	3	4	5	6	10	11	13	13	11	8	11	12	10	11	9	8	9	12	13	12	10	7	4	9.1	13.2
17-Sep-07		5	7	8	10	8	4	2	3	3	2	2	3	3	1	1	0	1	1	4	4	2	2	3	5	3.5	10.0
18-Sep-07		3	3	3	3	2	2	2	3	2	1	1	1	1	2	2	2	2	2	2	3	2	1	1	1	1.9	3.2
19-Sep-07		2	1	3	2	0	1	2	1	1	2	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0.7	2.6
20-Sep-07		0	D	0	0	0	0	0	2	1	1	2	3	2	3	3	2	2	2	2	4	4	3	2	3	1.9	4.1
21-Sep-07		2	2	0	2	2	2	2	2	1	0	0	0	0	0	1	1	1	0	3	4	2	1	1	2	1.2	3.5
22-Sep-07		1	1	2	1	2	2	3	4	5	3	3	2	4	2	2	3	2	3	3	4	3	3	2	2	2.5	4.9
23-Sep-07		2	2	1	2	4	5	2	2	2	3	3	2	2	2	2	3	3	2	1	1	1	1	2	2	2.1	4.9
24-Sep-07		2	2	2	2	3	3	4	4	4	2	2	2	2	2	1	2	0	0	1	2	1	1	0	1	1.9	4.4
25-Sep-07		1	1	1	1	2	3	4	4	4	3	2	2	1	1	0	3	3	4	4	4	4	3	2	2	2.4	4.2
26-Sep-07		2	2	0	0	0	1	1	2	2	3	3	0	0	0	3	2	2	11	1	1	3	2	1	0	1.8	11.4
27-Sep-07		1	0	0	0	0	0	2	4	1	1	0	0	0	0	0	1	0	0	1	1	2	2	1	1	0.8	3.6
28-Sep-07		2	2	1	2	2	4	4	5	7	5	4	2	3	4	C	4	5	6	5	7	10	6	6	7	4.3	9.8
29-Sep-07		4	5	4	4	4	2	3	2	2	3	2	1	1	1	2	2	1	1	2	3	2	2	2	3	2.3	4.6
30-Sep-07		2	1	0	0	1	1	1	3	1	2	2	0	2	1	0	1	1	0	1	0	0	2	0	2	0.9	2.9
Hourly Avg		2.3	2.8	2.3	3.3	2.7	2.9	3.2	4.4	4.1	2.9	2.5	2.3	2.1	1.6	1.8	2.9	2.5	3.0	3.4	3.9	3.6	3.0	3.1	2.7		
Hourly Max		7.4	11.8	8.8	20.7	8.3	14.7	11.2	13.1	12.9	11.5	8.8	13.9	15.4	10.1	11.1	19.2	8.4	11.4	12.2	13.2	11.8	13.1	17.4	8.0		

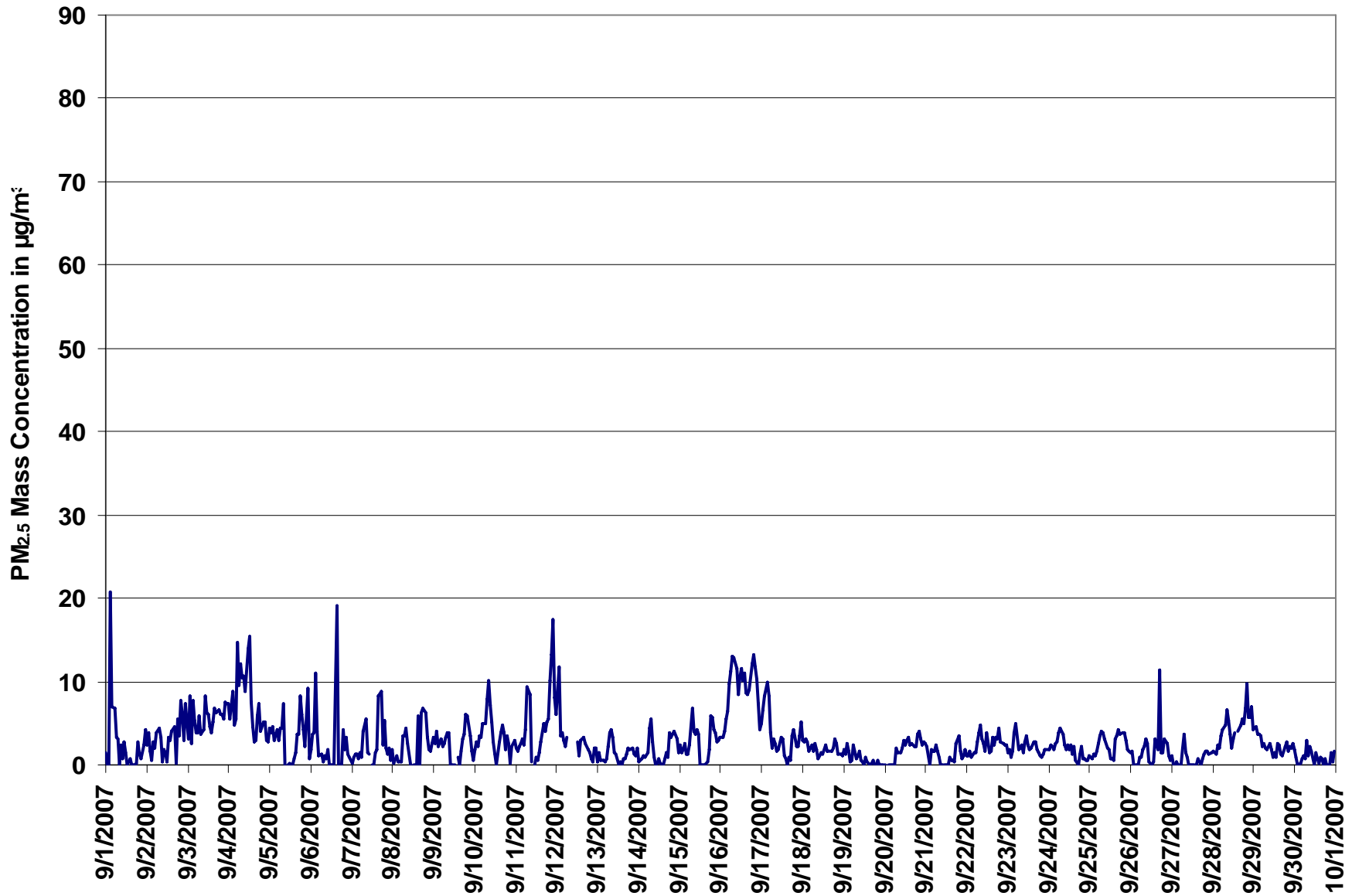


Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

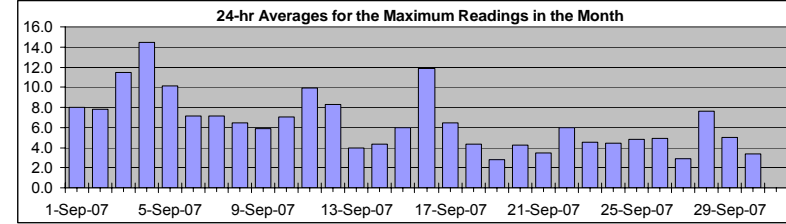
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

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

Summary

Maximum 1-hr Average:	44.9	µg/m ³	1-Sep	3:00 4:00
Maximum 24-hr Value:	14.5	µg/m ³	4-Sep	



AIC Time:	0 hrs	Operational Time:	708 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	98.9%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	24.7	14.8	7.7	5.2	3.5	2.0	0.8	6.5 5 µg/m ³	6.0 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-Sep-07	5	3	11	45	10	15	7	11	5	6	5	7	5	4	12	5	3	3	5	6	4	3	5	8	8.0	44.9
2-Sep-07	4	7	6	6	6	4	7	8	9	7	6	3	5	7	8	10	9	9	10	8	9	10	7	22	7.8	22.0
3-Sep-07	6	15	13	15	10	7	8	11	10	10	22	13	11	12	11	10	13	14	10	9	14	11	12	10	11.5	22.1
4-Sep-07	11	16	15	14	12	30	20	25	21	19	17	22	21	13	13	10	9	9	10	9	8	9	7	6	14.5	30.4
5-Sep-07	6	7	11	10	10	6	11	8	14	9	D	5	8	3	3	6	8	10	21	35	14	7	13	7	10.1	34.8
6-Sep-07	6	7	14	21	8	4	5	3	5	8	6	1	5	4	3	31	8	6	3	7	4	6	5	3	7.2	30.6
7-Sep-07	2	3	3	3	2	4	3	7	9	8	6	D	8	11	6	8	14	20	9	11	7	6	12	2	7.1	19.6
8-Sep-07	4	4	4	2	2	2	10	7	9	6	4	D	4	4	5	18	3	12	10	9	7	6	8	7	6.4	17.9
9-Sep-07	7	6	8	5	6	5	7	6	5	7	3	1	2	D	10	3	5	7	7	12	10	7	7	2	5.9	11.9
10-Sep-07	3	5	5	5	6	10	7	11	13	11	8	6	6	3	6	7	14	9	3	5	4	10	5	7	7.1	14.2
11-Sep-07	4	4	5	5	5	4	8	13	14	10	D	5	4	6	8	9	9	10	8	9	15	25	28	22	9.9	28.3
12-Sep-07	19	25	7	8	10	7	6	D	D	C	C	C	8	10	7	6	6	7	5	4	3	2	7	10	8.3	24.9
13-Sep-07	2	3	3	2	2	3	4	6	6	5	5	6	4	5	3	5	3	3	5	5	4	3	2	4	4.0	6.3
14-Sep-07	2	3	3	3	3	3	7	9	6	3	3	3	4	2	2	4	4	3	7	6	6	6	6	6	4.4	8.8
15-Sep-07	5	3	5	5	4	3	5	22	6	6	6	6	3	3	2	4	2	6	11	12	9	7	5	5	6.0	22.0
16-Sep-07	6	5	6	8	9	12	13	17	16	14	10	13	16	14	13	11	13	12	15	16	14	13	11	7	11.8	17.1
17-Sep-07	7	10	13	12	13	8	4	8	6	5	5	6	7	6	3	2	3	3	6	7	4	4	8	8	6.5	13.1
18-Sep-07	5	5	7	7	5	6	4	5	4	3	4	4	5	4	3	3	4	4	4	6	4	3	3	2	4.3	6.7
19-Sep-07	3	4	6	5	3	2	6	3	4	4	2	2	2	3	2	2	2	3	1	2	3	1	0	2	2.8	6.0
20-Sep-07	0	D	0	0	0	0	6	7	4	4	4	7	6	6	7	5	5	4	5	5	6	6	5	6	4.2	6.9
21-Sep-07	5	5	3	5	3	4	7	3	3	1	2	2	2	3	3	3	3	2	5	7	4	2	3	3	3.5	7.4
22-Sep-07	2	3	8	3	3	4	5	6	7	6	5	15	20	4	4	5	5	6	7	6	6	5	5	5	6.0	20.1
23-Sep-07	4	5	4	6	6	7	5	4	4	4	7	6	5	5	5	5	5	4	4	3	2	3	4	4	4.5	6.9
24-Sep-07	4	5	5	4	5	5	7	8	6	5	6	6	5	4	4	5	4	2	3	5	2	3	2	2	4.5	7.6
25-Sep-07	3	2	3	2	3	7	6	6	6	5	4	4	3	4	3	8	6	7	6	6	7	6	4	4	4.8	7.6
26-Sep-07	4	4	3	2	2	2	3	4	4	6	5	3	2	4	6	5	6	20	7	6	5	5	4	3	4.9	20.5
27-Sep-07	4	3	3	2	1	1	6	7	5	4	2	1	1	2	1	3	3	2	3	3	4	3	3	4	2.9	7.0
28-Sep-07	3	4	3	4	3	6	8	7	9	10	8	5	6	10	C	9	8	8	8	10	17	8	9	10	7.6	17.2
29-Sep-07	8	10	6	6	6	5	4	5	4	5	4	4	3	3	5	5	4	3	5	5	4	5	5	5	5.0	10.0
30-Sep-07	5	4	2	2	2	3	2	5	4	5	4	3	4	3	5	3	4	2	3	2	2	4	3	4	3.4	5.1
Hourly Avg	5.0	6.1	6.0	7.2	5.4	6.0	6.7	8.3	7.4	6.9	6.1	5.8	6.1	5.6	5.7	7.0	6.2	7.0	6.8	7.9	6.8	6.3	6.6	6.3		
Hourly Max	18.7	24.9	14.8	44.9	12.7	30.4	20.2	25.5	20.6	18.9	22.1	21.6	20.8	14.4	13.3	30.6	14.2	20.5	20.7	34.8	17.2	24.9	28.3	22.0		

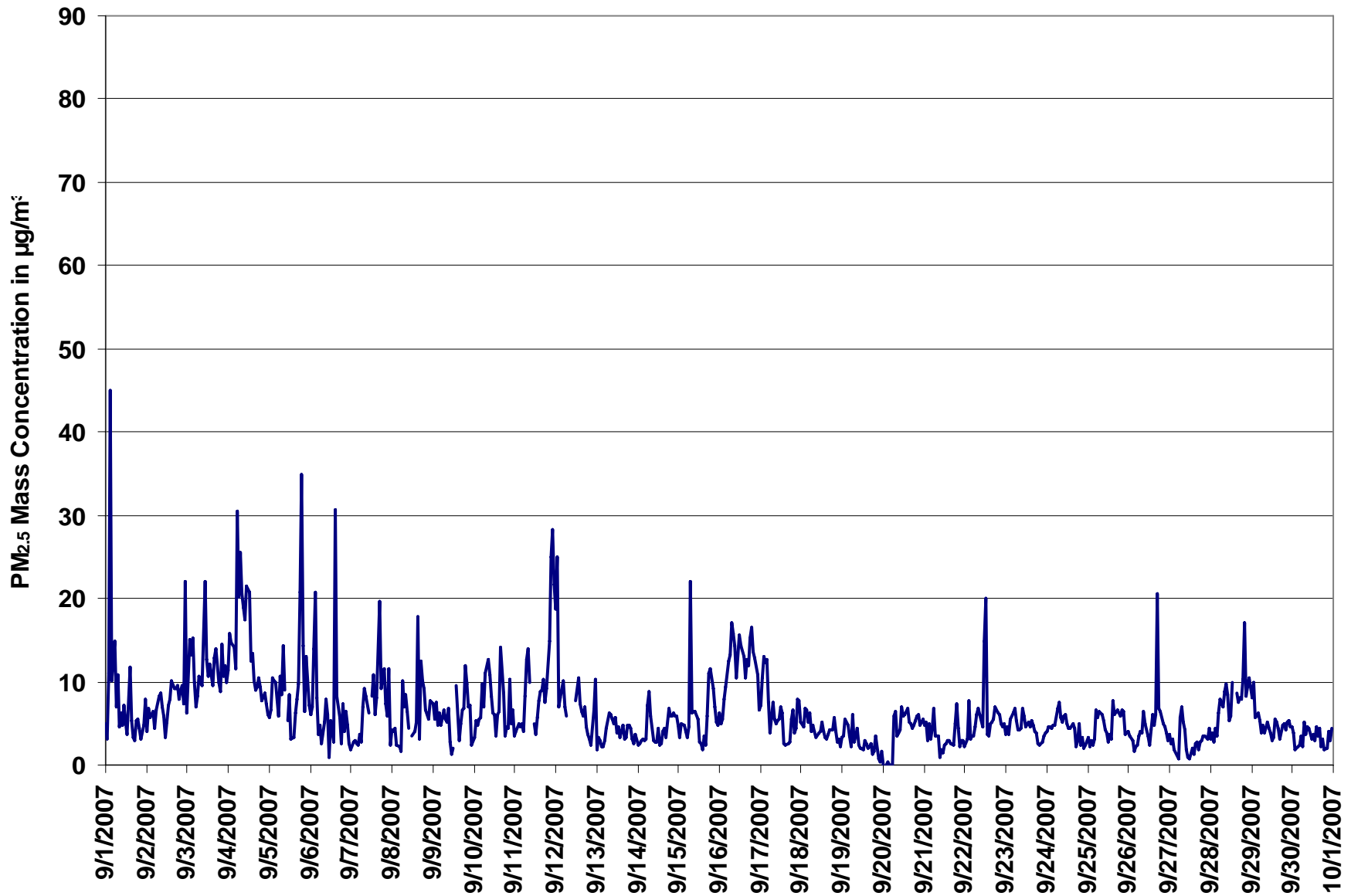
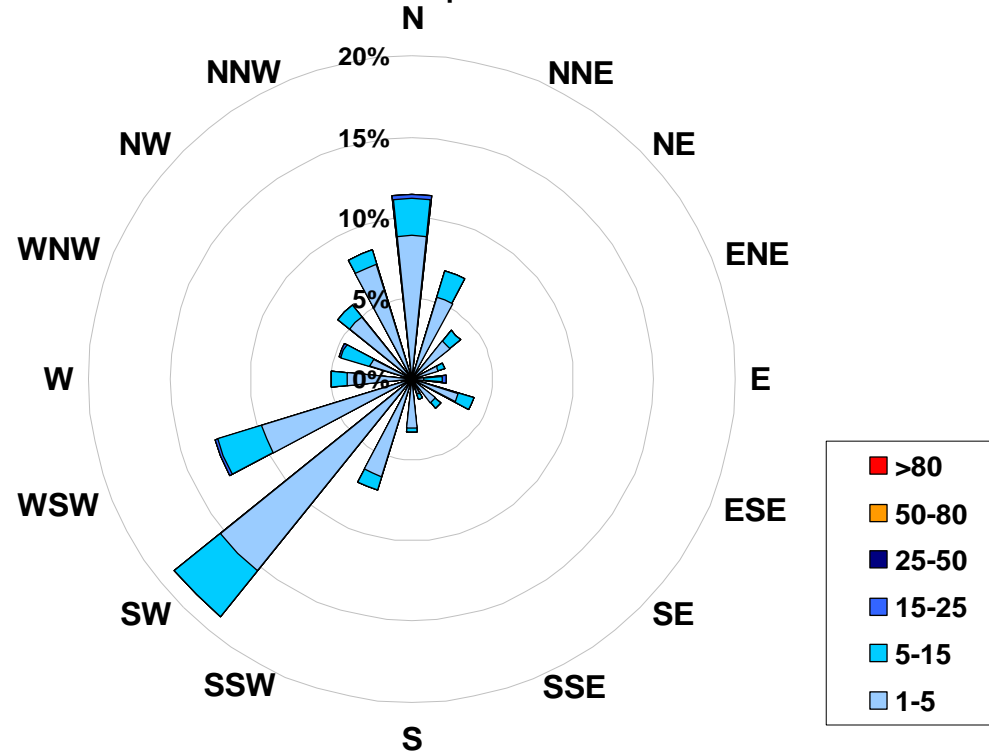


Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	597
5	to	15	107
15	to	25	4
25	to	50	0
50	to	80	0
	>	80	0
Total Non-Zero Values			708



PAS - Crescent Heights Relative Humidity Monthly Summary

Station: Crescent Heights
Station Owner: PAS

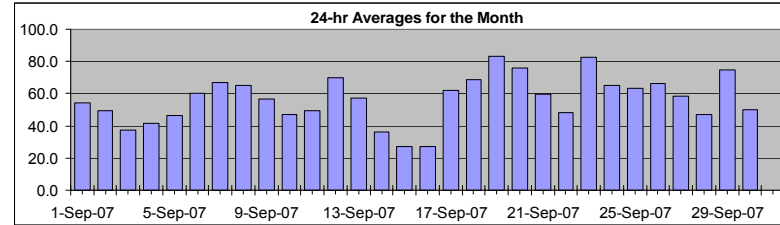
HOURLY AVERAGE TABLE

Relative Humidity (RH)

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

Summary

Maximum 1-hr Average:	91.3 %	19-Sep	23:00 0:00
Maximum 24-hr Value:	83.3 %	19-Sep	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	89.9	87.5	74.1	57.6	39.5	22.7	12.1	56.6 %	57.6 %

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00		
1-Sep-07	49	47	47	59	74	76	72	68	59	55	49	47	47	44	42	44	41	41	44	51	55	58	61	66			54.0	76.1
2-Sep-07	70	74	75	76	77	77	75	70	60	46	38	34	29	28	25	27	28	28	32	35	39	44	47	50			49.4	77.2
3-Sep-07	50	55	56	59	63	60	53	48	39	32	26	26	23	21	19	19	18	19	25	29	34	39	41	45			37.5	62.8
4-Sep-07	45	49	52	53	55	55	59	53	49	39	32	32	35	27	25	24	25	28	33	37	42	46	49	52			41.4	59.0
5-Sep-07	54	59	66	70	74	74	73	68	64	50	37	31	28	26	24	23	25	27	33	38	40	39	44	47			46.4	74.2
6-Sep-07	44	46	50	65	75	75	74	72	68	68	67	60	51	45	38	56	55	53	51	60	65	67	69	70			60.1	75.5
7-Sep-07	70	73	76	76	76	77	76	73	70	64	58	44	42	43	40	40	53	76	76	78	77	77	82	84			66.8	84.5
8-Sep-07	85	86	87	86	88	89	87	84	81	69	59	47	41	36	32	40	44	39	50	56	60	65	70	73			64.8	88.8
9-Sep-07	76	79	79	81	82	83	85	78	72	65	54	45	39	32	31	29	29	31	39	45	48	50	50	50			56.4	85.3
10-Sep-07	49	46	46	51	52	52	54	50	47	43	40	38	34	32	32	34	38	42	45	51	56	62	65	69			47.0	68.6
11-Sep-07	72	75	77	80	80	80	76	65	54	40	29	25	25	23	22	21	23	25	32	38	43	53	64	67			49.5	80.1
12-Sep-07	63	64	69	71	74	86	88	89	86	80	77	74	68	62	62	59	58	57	57	62	66	66	69	67			69.9	89.3
13-Sep-07	69	71	73	77	80	82	78	72	67	61	56	49	44	38	33	31	31	32	40	48	54	58	63	65			57.2	82.4
14-Sep-07	60	60	66	70	65	62	58	46	36	29	24	20	17	15	13	12	12	14	21	25	32	36	38	39			36.3	70.0
15-Sep-07	43	45	46	50	48	47	48	43	37	31	27	23	15	9	7	4	3	5	14	19	23	23	21	21			27.1	50.2
16-Sep-07	25	30	33	34	34	39	41	39	33	28	23	21	18	14	13	11	13	16	21	27	33	37	37	35			27.3	41.0
17-Sep-07	37	42	49	58	66	66	61	58	57	55	56	67	79	70	67	59	54	57	65	66	67	74	76	78			61.8	79.0
18-Sep-07	81	81	85	87	87	87	87	84	79	68	55	52	52	53	57	56	53	53	57	63	65	69	71	72			68.9	87.5
19-Sep-07	70	73	75	72	71	71	71	72	81	86	88	88	89	89	90	89	88	90	91	90	90	90	91	91			83.3	91.3
20-Sep-07	90	88	87	88	87	85	80	74	70	71	69	64	63	65	61	58	59	67	76	80	83	84	86	88			76.0	90.5
21-Sep-07	87	83	78	83	87	88	86	78	70	58	53	46	40	34	32	31	32	36	46	50	53	59	64	62			59.9	88.0
22-Sep-07	60	63	58	52	53	59	58	59	54	46	44	36	30	30	28	29	30	35	44	50	56	57	59	60			47.9	63.4
23-Sep-07	62	66	67	68	73	83	87	88	88	87	87	87	88	87	87	87	87	88	88	88	86	84	83	82			82.4	88.1
24-Sep-07	82	83	82	82	82	80	83	78	71	64	59	56	56	56	51	46	42	42	55	65	62	63	64	64			65.3	83.0
25-Sep-07	69	74	75	74	76	78	76	70	67	59	50	44	38	35	34	39	46	60	65	71	74	77	80	83			63.1	82.7
26-Sep-07	80	79	80	80	78	77	73	72	68	59	53	41	33	31	35	40	38	68	83	81	84	86	86	88			66.4	87.8
27-Sep-07	89	89	90	89	89	90	90	86	77	65	48	39	38	39	36	35	37	38	40	39	40	39	39	44			58.5	89.9
28-Sep-07	54	58	60	61	55	53	48	51	52	40	35	30	28	26	27	29	33	38	45	49	56	62	70	75			47.3	74.7
29-Sep-07	77	78	77	78	83	86	87	86	84	81	78	72	69	65	62	62	57	56	64	70	74	79	81	83			74.6	87.3
30-Sep-07	80	76	71	68	69	70	66	58	50	45	42	30	31	34	34	32	34	39	43	43	44	49	47	53			50.2	80.0
Hourly Avg	64.8	66.4	67.7	70.0	71.9	72.9	71.6	67.7	63.0	56.1	50.4	45.6	43.0	40.3	38.6	38.9	39.6	43.4	49.2	53.4	56.6	59.7	62.3	64.1				
Hourly Max	90.5	88.9	89.7	88.8	89.1	89.9	89.7	89.3	87.5	87.2	88.4	88.4	89.1	89.3	89.7	89.0	88.2	90.4	91.2	90.1	89.7	90.2	90.8	91.3				

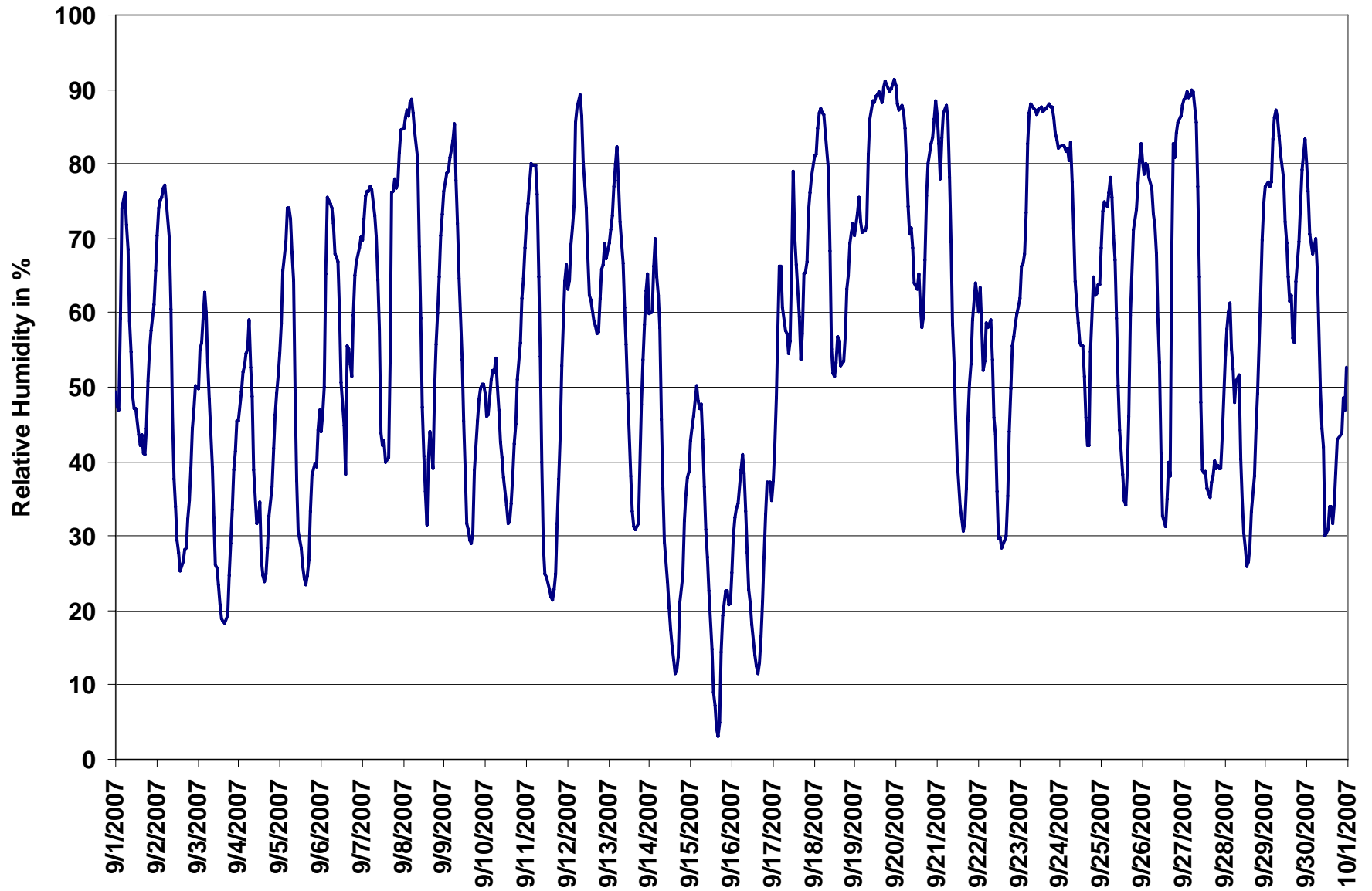


Figure 13. PAS - Crescent Heights Relative Humidity 1-hr Average Monthly Trend



PAS - Crescent Heights Temperature Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

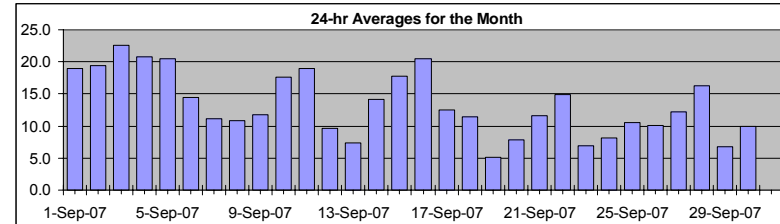
HOURLY AVERAGE TABLE

Ambient Temperature (T)

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

Summary

Maximum 1-hr Average:	30.5	°C	3-Sep	14:00 15:00
Maximum 24-hr Value:	22.6	°C	3-Sep	



AIC Time:	0 hrs	Operational Time:	720 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%
Percentile	99	95	75
	29.1	27.1	17.8
			12.3
			8.2
			4.0
			2.6
		Average	Median
		13.3 °C	12.3 °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	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-Sep-07	0:00	21	22	21	19	17	15	16	17	18	19	21	21	22	22	22	22	21	20	18	16	15	14	12	19.0	22.4	
2-Sep-07	1:00	11	10	10	9	9	10	11	13	16	21	24	26	28	29	30	29	28	26	25	23	22	20	19	18	19.4	29.9
3-Sep-07	2:00	17	17	17	16	16	16	17	19	22	25	27	27	29	30	30	30	30	30	27	24	22	19	18	16	22.6	30.5
4-Sep-07	3:00	16	15	15	15	14	14	14	17	18	22	25	24	25	28	29	28	28	26	26	23	21	20	18	17	20.8	28.9
5-Sep-07	4:00	17	16	14	13	12	12	13	14	15	19	22	24	25	27	28	29	29	28	25	23	22	22	21	20	20.5	28.9
6-Sep-07	5:00	20	20	18	14	12	12	12	12	14	14	14	16	18	19	20	15	14	14	14	12	11	11	10	10	14.4	20.4
7-Sep-07	6:00	9	9	8	9	9	9	9	10	11	12	14	16	15	15	16	16	13	11	11	11	10	9	8	11.2	15.9	
8-Sep-07	7:00	7	7	6	6	5	5	5	6	8	11	14	16	17	17	19	16	15	17	14	12	11	10	9	8	10.8	19.0
9-Sep-07	8:00	7	6	6	5	6	6	5	7	9	12	14	15	17	18	18	18	19	18	16	14	13	11	11	11	11.7	18.6
10-Sep-07	9:00	11	12	12	11	11	11	11	14	17	20	22	23	24	25	25	25	24	23	21	19	18	15	14	12	17.6	25.3
11-Sep-07	10:00	11	11	10	9	10	10	11	15	19	23	25	26	27	28	29	29	28	27	24	21	19	17	15	13	19.0	28.5
12-Sep-07	11:00	14	16	14	14	14	12	11	11	10	8	8	9	9	9	9	9	9	8	7	6	5	5	5	5	9.6	15.9
13-Sep-07	12:00	4	4	3	2	1	0	1	4	6	8	9	11	12	13	15	15	15	15	11	9	6	5	3	3	7.4	14.9
14-Sep-07	13:00	4	4	3	2	3	4	5	10	13	16	19	21	23	23	24	25	25	24	21	17	14	13	12	11	14.1	25.2
15-Sep-07	14:00	9	9	8	7	7	7	7	10	14	18	20	24	26	28	29	29	29	28	23	20	18	18	19	19	17.8	29.2
16-Sep-07	15:00	17	15	15	14	14	13	13	15	18	21	24	26	28	29	29	29	28	27	24	21	19	18	17	17	20.4	29.1
17-Sep-07	16:00	16	15	14	12	11	11	12	13	14	14	14	12	11	12	12	13	15	14	12	12	11	9	9	9	12.4	15.9
18-Sep-07	17:00	9	9	9	9	8	9	9	9	10	12	15	16	16	15	15	14	15	14	13	12	11	10	9	7	11.4	15.8
19-Sep-07	18:00	7	6	6	6	6	5	5	5	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5.1	6.9
20-Sep-07	19:00	5	4	3	3	2	3	4	6	7	7	9	10	11	12	13	12	12	11	10	9	9	9	9	9	7.8	12.6
21-Sep-07	20:00	8	8	7	5	5	4	4	6	9	11	13	15	17	18	19	19	19	18	15	13	12	11	10	11	11.5	19.3
22-Sep-07	21:00	11	10	11	11	11	9	10	10	14	17	19	20	21	21	21	21	20	19	16	15	13	12	11	11	14.9	21.4
23-Sep-07	22:00	10	10	9	9	9	8	7	7	7	7	7	7	7	7	7	7	7	6	6	5	5	5	4	7.0	10.4	
24-Sep-07	23:00	4	4	4	4	3	3	3	4	6	7	9	10	11	12	13	14	15	14	11	9	9	8	8	8	8.1	14.9
25-Sep-07	0:00	7	6	5	5	5	4	5	8	9	12	14	16	18	19	18	17	16	13	12	11	10	8	7	6	10.5	18.6
26-Sep-07	1:00	7	8	7	6	5	5	6	6	8	11	14	17	19	19	18	17	17	12	8	9	8	6	6	5	10.2	19.4
27-Sep-07	2:00	4	4	3	3	3	2	3	4	7	11	15	17	18	18	20	20	19	18	17	17	18	17	17	15	12.1	20.0
28-Sep-07	3:00	13	12	11	10	12	13	14	14	15	20	21	22	23	24	23	23	22	20	18	16	15	13	11	10	16.3	23.7
29-Sep-07	4:00	9	9	8	8	6	5	5	5	6	6	6	7	8	9	9	9	10	9	7	6	5	3	3	3	6.8	10.0
30-Sep-07	5:00	4	4	4	4	3	3	4	6	8	10	12	15	16	15	16	17	16	15	13	12	11	11	11	10	10.0	16.6
Hourly Avg		10.3	10.0	9.4	8.7	8.3	8.0	8.4	9.9	11.8	14.0	15.8	17.1	18.1	18.9	19.4	19.1	18.8	17.7	15.8	14.2	13.0	11.9	11.1	10.4		
Hourly Max		21.4	21.7	21.2	19.5	16.6	15.6	16.7	18.6	21.9	25.1	27.2	27.3	28.5	30.0	30.5	30.4	30.5	29.9	27.1	24.5	22.0	21.7	21.2	20.4		

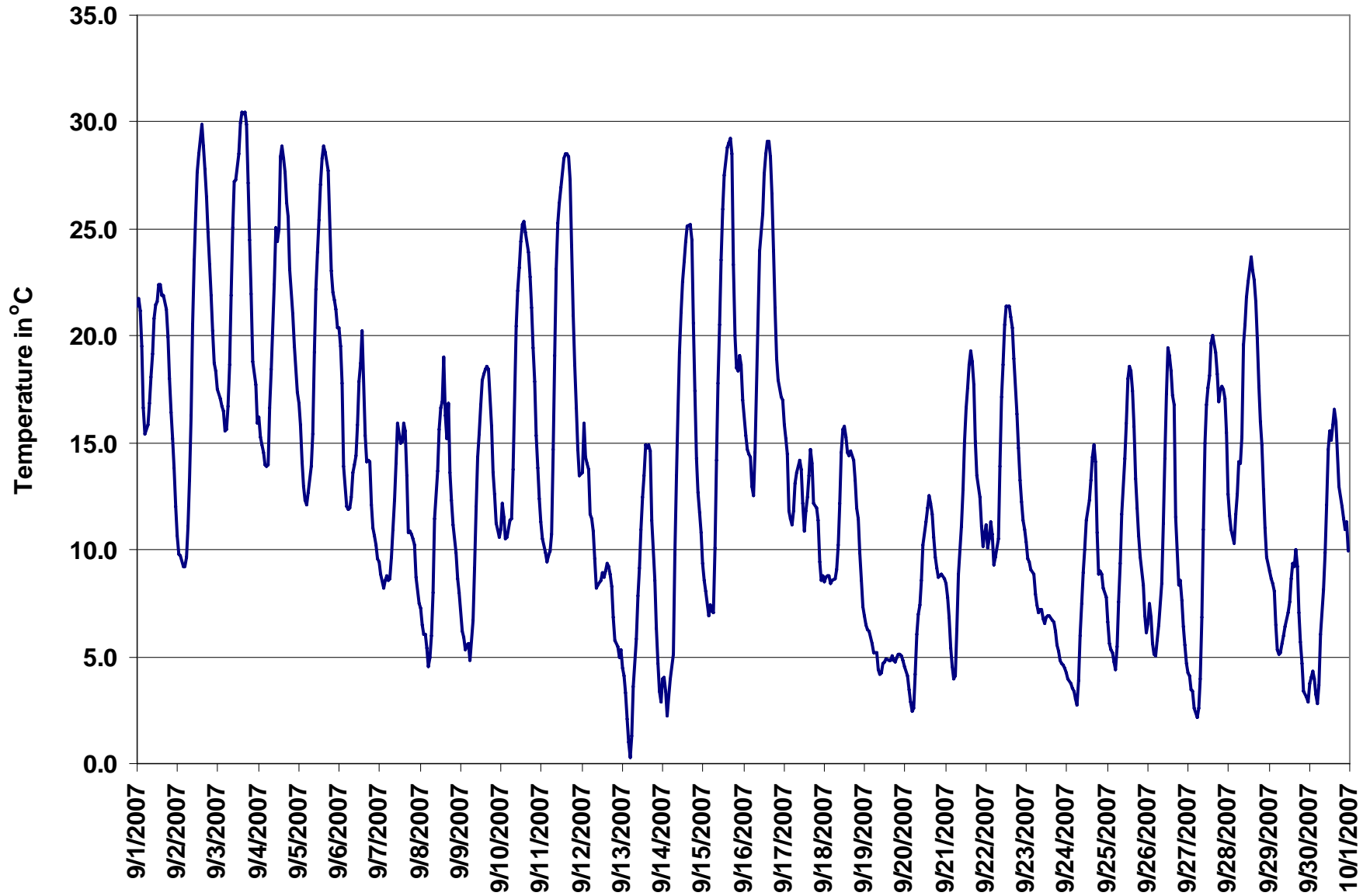


Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend



PAS - Crescent Heights Solar Radiation Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

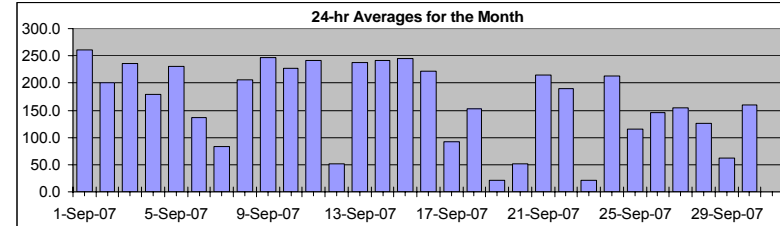
Solar Radiation (SR)

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

Summary

Maximum 1-hr Average:	784.9	W/m ²	1-Sep	11:00 12:00
Maximum 24-hr Value:	260.4	W/m ²	1-Sep	

AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	763.5	693.7	275.1	14.5	0.0	0.0	0.0	165.5 W/m ²	14.5 W/m ²



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Sep-07	0	0	0	0	0	4	67	255	429	585	702	785	769	728	681	558	400	227	58	1	0	0	0	0	260.4	784.9	
2-Sep-07	0	0	0	0	0	5	76	118	235	532	692	694	746	567	564	310	196	84	16	0	0	0	0	0	201.5	745.6	
3-Sep-07	0	0	0	0	0	4	71	215	432	544	636	468	716	755	654	543	381	213	46	1	0	0	0	0	236.7	755.2	
4-Sep-07	0	0	0	0	0	3	64	182	282	353	397	315	491	744	530	478	298	121	60	3	0	0	0	0	179.9	743.6	
5-Sep-07	0	0	0	0	0	2	44	127	186	478	645	764	770	737	659	535	372	167	33	0	0	0	0	0	229.9	770.4	
6-Sep-07	0	0	0	0	0	1	28	100	264	205	252	368	591	489	563	231	91	61	26	0	0	0	0	0	136.2	591.2	
7-Sep-07	0	0	0	0	0	1	22	59	127	192	293	365	200	206	260	168	44	43	17	0	0	0	0	0	83.3	365.1	
8-Sep-07	0	0	0	0	0	2	72	127	296	561	681	758	590	429	785	269	168	181	15	0	0	0	0	0	205.6	784.9	
9-Sep-07	0	0	0	0	0	2	48	232	403	559	637	774	752	754	663	529	352	194	26	0	0	0	0	0	246.8	773.7	
10-Sep-07	0	0	0	0	0	0	26	225	385	547	649	715	736	730	626	416	231	132	21	0	0	0	0	0	226.7	736.4	
11-Sep-07	0	0	0	0	0	1	63	222	393	547	665	743	755	715	634	504	343	176	21	0	0	0	0	0	240.9	754.7	
12-Sep-07	0	0	0	0	0	0	3	23	74	164	177	132	188	120	119	113	80	50	9	0	0	0	0	0	52.2	188.1	
13-Sep-07	0	0	0	0	0	1	62	226	395	554	560	777	763	724	638	503	338	167	14	0	0	0	0	0	238.4	777.2	
14-Sep-07	0	0	0	0	0	1	58	222	395	551	670	748	761	725	637	503	338	165	13	0	0	0	0	0	241.1	761.4	
15-Sep-07	0	0	0	0	0	1	59	226	401	559	679	758	775	728	648	512	350	165	11	0	0	0	0	0	244.7	774.9	
16-Sep-07	0	0	0	0	0	1	49	197	367	520	634	710	718	654	569	459	294	123	10	0	0	0	0	0	221.0	717.6	
17-Sep-07	0	0	0	0	0	1	55	199	183	300	168	101	137	182	197	267	323	92	8	0	0	0	0	0	92.2	323.1	
18-Sep-07	0	0	0	0	0	0	23	106	206	392	582	644	421	356	279	281	258	112	14	0	0	0	0	0	153.1	644.1	
19-Sep-07	0	0	0	0	0	0	4	13	17	22	58	105	86	74	53	42	31	10	2	0	0	0	0	0	21.6	105.3	
20-Sep-07	0	0	0	0	0	0	21	48	97	93	100	208	182	134	110	94	87	44	4	0	0	0	0	0	51.0	208.3	
21-Sep-07	0	0	0	0	0	0	39	191	360	513	630	703	664	628	575	478	289	95	4	0	0	0	0	0	215.4	702.5	
22-Sep-07	0	0	0	0	0	0	26	168	374	483	616	692	696	567	420	250	183	72	3	0	0	0	0	0	189.7	696.3	
23-Sep-07	0	0	0	0	0	0	1	10	28	46	31	64	62	82	92	46	29	11	1	0	0	0	0	0	21.0	92.5	
24-Sep-07	0	0	0	0	0	0	15	166	350	517	624	689	706	666	566	430	276	95	3	0	0	0	0	0	212.7	706.1	
25-Sep-07	0	0	0	0	0	0	35	161	140	220	436	503	518	398	194	66	60	27	3	0	0	0	0	0	115.1	518.1	
26-Sep-07	0	0	0	0	0	0	12	80	181	464	602	693	650	180	231	314	79	3	3	0	0	0	0	0	145.6	693.3	
27-Sep-07	0	0	0	0	0	0	34	123	278	322	445	515	471	471	519	358	139	35	1	0	0	0	0	0	154.7	518.9	
28-Sep-07	0	0	0	0	0	0	13	76	179	351	372	429	521	507	240	195	120	36	1	0	0	0	0	0	126.7	520.7	
29-Sep-07	0	0	0	0	0	0	2	29	63	62	118	138	165	275	255	122	199	58	1	0	0	0	0	0	62.0	274.8	
30-Sep-07	0	0	0	0	0	0	22	143	267	417	576	648	540	327	326	346	188	33	0	0	0	0	0	0	159.7	648.3	
Hourly Avg	0.0	0.1	0.1	0.0	0.0	1.1	37.1	142.3	259.6	388.4	477.7	533.5	538.0	488.3	442.9	330.7	217.8	99.7	14.8	0.2	0.0	0.0	0.0	0.0			
Hourly Max	0.3	0.4	0.3	0.1	0.1	5.3	76.4	255.4	431.8	585.0	702.3	784.9	774.9	755.2	784.9	558.0	399.9	226.7	59.9	2.5	0.3	0.3	0.3	0.3			

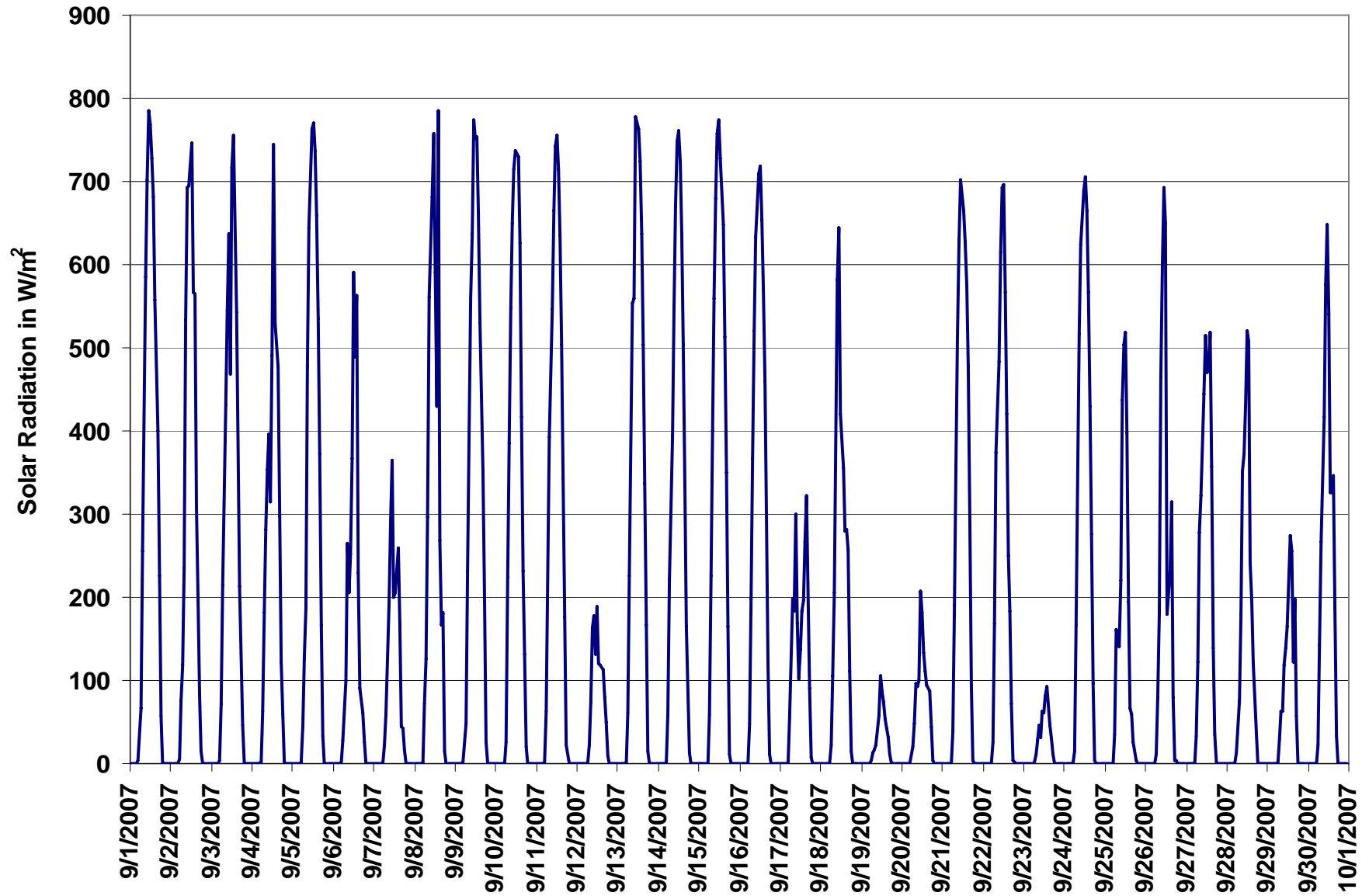


Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend



PAS - Crescent Heights Scalar Wind Speed Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

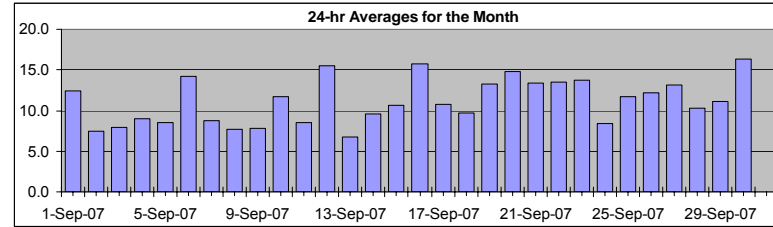
Wind Speed (WSs)

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

Summary

Maximum 1-hr Average:	32.9	km/hr	6-Sep	15:00 16:00
Maximum 24-hr Value:	16.3	km/hr	30-Sep	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	24.3	19.7	14.8	10.3	7.0	4.1	2.9	11.2 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Sep-07	9	19	12	15	6	6	6	8	9	12	14	19	18	18	18	17	17	17	12	10	10	13	9	5	12.4	18.8	
2-Sep-07	4	4	6	5	5	5	7	6	8	8	6	7	15	12	11	8	10	10	9	10	12	5	4	4	7.5	15.0	
3-Sep-07	4	6	4	5	6	8	10	7	11	10	11	11	9	10	11	10	8	7	9	10	9	6	5	5	7.9	11.2	
4-Sep-07	5	3	3	3	3	5	5	4	8	11	12	10	9	9	14	16	18	13	9	11	12	12	12	9	9.0	17.9	
5-Sep-07	10	9	4	3	3	6	7	7	4	11	13	12	10	10	10	8	7	9	8	3	8	9	13	14	14	8.5	14.4
6-Sep-07	21	18	13	23	24	16	10	10	9	14	11	10	10	11	14	33	28	14	11	12	7	6	8	9	14.2	32.9	
7-Sep-07	9	7	7	8	6	6	5	4	4	4	5	10	16	13	10	14	18	15	9	5	7	10	8	8	8.7	18.4	
8-Sep-07	5	4	5	4	5	7	7	9	9	8	10	10	8	9	8	19	13	5	4	6	9	11	4	5	7.7	19.1	
9-Sep-07	4	3	4	5	5	3	4	6	7	7	9	13	12	12	14	14	13	9	3	3	4	5	11	17	7.8	16.7	
10-Sep-07	17	17	17	10	5	6	7	7	9	15	15	17	16	17	17	17	19	15	9	8	5	6	5	5	11.7	18.7	
11-Sep-07	5	6	5	4	4	3	3	3	4	13	19	20	20	16	14	12	11	11	8	9	4	4	3	3	8.5	20.4	
12-Sep-07	7	14	10	16	19	20	14	20	22	27	21	16	19	19	15	19	18	19	18	10	8	7	7	8	15.5	27.0	
13-Sep-07	8	8	8	8	9	6	4	5	4	5	6	6	7	7	6	8	7	6	6	6	7	10	7	6	6.7	9.6	
14-Sep-07	6	3	2	4	4	4	4	6	11	15	16	18	18	20	17	14	13	11	7	5	7	11	10	10	9.6	19.5	
15-Sep-07	10	11	7	3	9	15	11	6	11	14	14	14	13	10	10	14	12	5	5	8	8	10	16	18	10.6	17.8	
16-Sep-07	11	11	12	12	21	16	14	13	20	17	18	15	17	18	16	16	17	14	15	14	19	18	15	17	15.7	20.6	
17-Sep-07	19	13	9	9	9	10	14	18	19	17	17	17	14	12	12	11	9	5	3	4	4	4	5	5	10.8	19.3	
18-Sep-07	3	8	10	6	5	8	9	10	10	9	5	7	9	12	18	17	14	13	11	11	9	9	10	9	9.7	18.0	
19-Sep-07	9	10	14	15	18	19	17	18	18	14	13	18	19	16	15	17	14	11	10	7	8	6	5	8	13.3	19.1	
20-Sep-07	11	15	18	19	15	16	19	22	19	24	19	18	21	13	11	10	11	9	15	13	9	10	10	10	14.8	24.3	
21-Sep-07	9	10	9	10	13	13	10	14	19	18	21	20	20	21	18	18	18	12	8	6	7	6	7	14	13.4	21.4	
22-Sep-07	14	9	11	11	11	12	11	18	9	13	18	20	23	19	18	13	10	10	12	12	11	16	13	10	13.5	22.6	
23-Sep-07	8	8	12	13	10	5	10	10	10	15	17	17	18	21	22	20	16	19	18	14	13	11	11	10	13.8	21.6	
24-Sep-07	9	8	8	7	4	5	5	5	6	8	7	7	10	11	11	9	9	6	6	7	9	12	16	18	8.4	18.1	
25-Sep-07	11	17	15	16	12	8	9	11	10	12	14	17	17	13	12	13	10	19	8	6	6	8	8	7	11.7	19.2	
26-Sep-07	8	11	12	10	10	14	13	13	15	15	16	15	14	12	14	15	11	26	16	5	8	6	6	9	12.2	25.8	
27-Sep-07	10	10	8	10	5	6	5	5	5	8	17	23	24	19	19	20	13	10	14	15	21	19	18	13	13.2	23.8	
28-Sep-07	5	5	7	6	8	9	13	8	4	10	16	14	12	11	9	8	10	8	13	14	11	11	18	14	10.2	17.7	
29-Sep-07	14	11	10	9	11	13	15	15	16	17	18	15	13	13	12	11	10	8	6	6	9	6	4	6	11.2	17.8	
30-Sep-07	6	4	11	6	6	8	13	18	24	23	24	26	25	24	21	31	22	18	16	11	8	8	18	19	16.3	30.6	
1-hr Average	9.1	9.3	9.1	9.2	9.2	9.4	9.5	10.2	11.1	13.1	14.2	14.7	15.2	14.3	13.8	15.1	13.5	11.7	9.8	8.9	9.1	9.1	9.5	9.7			
Hourly Max	20.9	18.6	17.9	22.8	24.2	19.7	18.9	21.9	23.7	27.0	24.2	25.7	24.8	24.3	21.6	32.9	27.8	25.8	18.2	14.6	21.5	19.2	17.9	18.6			



PAS - Crescent Heights Vector Wind Speed Monthly Summary

Station: Crescent Heights
Station Owner: PAS

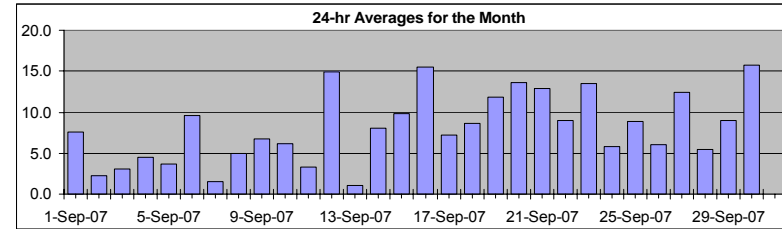
HOURLY AVERAGE TABLE

Wind Speed (WSv)

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

Summary

Maximum 1-hr Average:	32.6	km/hr	6-Sep	15:00 16:00
Maximum 24-hr Value:	15.7	km/hr	30-Sep	



Calm Time:	1 hrs	0% calms	Operational Time:	719 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	24.2	19.5	14.6	9.9	6.4	2.8	1.5	15.8 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Sep-07	7	19	11	15	6	5	5	8	9	11	14	18	17	17	17	16	17	16	12	10	10	13	8	4		7.6	18.5
2-Sep-07	4	3	6	5	4	5	7	6	8	7	1	5	15	11	10	8	9	10	9	10	12	3	4	3		2.2	14.6
3-Sep-07	4	6	2	4	6	7	10	7	11	9	10	10	8	8	10	9	5	6	9	10	8	5	4	4		3.1	10.8
4-Sep-07	4	3	2	2	1	4	4	2	8	11	11	9	9	8	13	16	18	13	9	11	12	12	11	9		4.5	17.6
5-Sep-07	9	9	3	3	2	6	6	7	4	10	12	12	10	9	5	4	8	7	2	7	9	13	14	14		3.7	14.2
6-Sep-07	21	17	11	23	24	16	10	10	8	14	11	10	9	10	13	33	28	14	11	11	7	4	8	9		9.6	32.6
7-Sep-07	9	7	7	7	6	6	5	3	2	2	4	10	16	12	10	12	18	14	9	4	6	9	8	8		1.6	18.1
8-Sep-07	2	3	5	2	4	7	7	9	8	7	10	8	6	7	7	17	13	3	4	6	8	10	3	4		4.9	16.8
9-Sep-07	2	3	2	4	4	1	4	6	7	6	8	12	11	11	14	13	12	9	1	3	4	4	11	17		6.8	16.6
10-Sep-07	17	16	17	9	5	5	6	6	9	14	15	17	16	16	16	17	18	15	9	8	5	6	5	5		6.2	18.3
11-Sep-07	5	6	5	4	4	3	3	2	2	13	18	20	19	15	14	11	10	11	8	9	3	3	2	2		3.3	19.8
12-Sep-07	7	14	10	16	19	20	14	19	22	27	21	16	18	19	15	19	18	19	18	10	8	6	7	7		14.9	26.9
13-Sep-07	8	7	8	8	9	5	4	5	3	3	1	4	4	3	5	3	5	6	6	5	7	9	7	6		1.1	9.4
14-Sep-07	6	3	2	4	1	3	3	5	11	15	16	18	17	19	16	14	13	11	6	5	4	7	11	10		8.0	19.1
15-Sep-07	10	11	5	1	9	15	10	6	11	14	14	13	13	9	10	13	11	5	4	8	8	10	15	18		9.8	17.8
16-Sep-07	11	11	12	11	20	16	14	13	19	17	18	15	16	18	16	16	17	14	15	14	19	18	15	17		15.5	20.5
17-Sep-07	19	12	6	8	8	10	14	18	18	16	17	17	14	12	12	11	8	4	2	3	3	3	4	4		7.2	19.1
18-Sep-07	2	8	8	6	4	8	9	9	10	8	4	5	8	12	18	17	14	12	11	11	9	9	10	8		8.6	17.6
19-Sep-07	9	10	14	15	18	19	17	18	18	14	13	18	19	16	15	17	14	10	9	7	7	6	5	8		11.9	19.0
20-Sep-07	11	15	18	19	15	16	19	22	19	24	19	17	21	12	10	10	10	7	15	13	9	9	9	9		13.6	24.2
21-Sep-07	8	9	9	10	13	13	10	14	18	18	21	20	20	20	17	18	17	12	8	5	6	5	6	14		13.0	21.1
22-Sep-07	13	8	10	10	10	12	11	17	8	13	18	20	22	18	18	13	9	10	12	12	11	16	12	10		8.9	22.2
23-Sep-07	8	8	12	13	10	5	10	10	10	15	17	17	18	21	22	19	16	19	18	14	13	11	11	10		13.5	21.6
24-Sep-07	9	8	7	7	3	5	5	5	5	7	5	6	9	11	10	8	8	6	6	7	9	12	16	18		5.8	18.1
25-Sep-07	11	16	15	16	12	8	9	11	10	12	14	17	16	13	12	12	8	18	6	5	6	8	7	6		8.9	18.0
26-Sep-07	8	11	12	10	10	14	12	13	15	15	16	14	14	11	11	15	11	26	15	calm	7	4	5	8		6.0	25.6
27-Sep-07	10	9	8	10	5	5	4	5	5	8	16	23	23	19	18	20	13	10	13	14	21	19	18	12		12.5	23.4
28-Sep-07	2	3	7	5	7	9	12	7	3	10	16	13	12	11	8	8	9	8	13	14	11	11	17	13		5.4	17.3
29-Sep-07	14	10	10	9	11	13	15	15	16	17	18	15	12	12	12	11	9	8	5	6	9	5	2	4		8.9	17.8
30-Sep-07	6	3	11	5	5	8	13	18	24	23	24	25	25	24	21	30	21	18	16	11	8	6	17	18		15.7	30.3
1-hr Vector	4.0	3.9	4.4	4.1	3.6	3.7	4.0	3.9	3.7	5.1	7.1	7.3	7.6	7.4	6.5	6.3	6.1	5.2	3.0	2.0	1.7	1.6	3.2	4.8			
Hourly Max	20.8	18.5	17.6	22.5	24.1	19.6	18.7	21.7	23.6	26.9	23.9	25.3	24.6	24.1	21.6	32.6	27.6	25.6	18.2	14.4	21.4	19.1	17.8	18.5			



PAS - Crescent Heights Wind Direction Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	356.3	345.3	267.0	225.1	133.8	7.7	1.5	269 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		
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-Sep-07	230	220	257	286	270	264	271	311	339	339	338	335	322	328	336	345	6	25	38	61	54	78	102	333	NNW		
2-Sep-07	105	119	95	125	15	6	4	1	20	60	338	224	207	235	237	287	336	357	357	0	10	88	105	100	359	N	
3-Sep-07	108	11	8	203	209	241	240	236	225	239	274	288	292	242	239	257	265	7	19	20	59	110	101	106	264	W	
4-Sep-07	85	92	54	342	253	208	288	232	223	240	236	287	237	305	348	354	4	15	19	1	4	13	40	40	342	NNW	
5-Sep-07	20	40	67	92	28	15	33	43	86	101	115	105	111	119	194	182	218	237	48	45	176	179	185	202	124	SE	
6-Sep-07	193	210	265	356	6	6	356	347	335	338	339	350	323	320	328	351	357	3	345	347	325	295	224	233	336	NNW	
7-Sep-07	239	225	209	233	225	245	241	18	84	73	180	102	70	107	131	46	6	342	318	310	297	308	332	312	347	NNW	
8-Sep-07	268	256	250	278	238	238	241	238	236	237	264	274	297	315	339	350	1	145	237	292	295	349	74	259	287	WNW	
9-Sep-07	192	132	166	229	265	163	205	223	212	216	240	230	238	238	233	243	245	251	226	79	113	200	224	217	225	SW	
10-Sep-07	222	238	234	226	216	215	210	248	287	307	303	310	311	304	308	325	358	7	10	23	71	114	118	134	295	WNW	
11-Sep-07	137	121	134	102	83	28	13	41	149	199	205	216	216	221	252	278	302	321	323	335	11	110	88	28	231	SW	
12-Sep-07	7	15	344	354	351	350	339	343	353	350	348	340	343	340	320	328	331	343	348	339	321	308	277	292	342	NNW	
13-Sep-07	297	279	301	310	330	5	3	225	205	144	248	320	201	225	163	124	112	153	135	114	113	118	121	109	176	S	
14-Sep-07	88	66	47	352	182	204	275	227	204	198	191	201	204	212	207	202	204	205	189	181	254	244	240	235	208	SSW	
15-Sep-07	217	218	209	81	217	230	226	213	216	224	223	218	221	231	204	212	202	179	135	149	179	207	203	205	210	SSW	
16-Sep-07	227	242	235	240	228	233	237	235	228	233	241	252	246	242	245	250	252	243	228	225	226	219	231	230	236	SW	
17-Sep-07	229	231	263	292	289	303	321	340	353	335	328	316	313	322	340	2	2	284	203	201	219	116	176	223	310	NW	
18-Sep-07	149	12	2	29	31	8	25	32	60	71	6	321	336	353	6	19	34	26	44	40	43	57	51	50	26	NNE	
19-Sep-07	52	30	33	37	37	40	51	40	45	37	22	29	22	26	36	31	27	24	29	39	343	328	246	243	31	NNE	
20-Sep-07	230	218	210	224	215	210	202	208	228	233	234	224	220	235	265	286	334	250	220	218	247	243	240	242	229	SW	
21-Sep-07	260	272	271	244	235	234	227	229	222	222	222	223	224	242	244	244	246	248	239	260	247	280	241	222	238	WSW	
22-Sep-07	231	255	256	262	230	234	262	235	228	252	245	251	253	271	267	282	297	332	349	5	6	9	18	20	274	W	
23-Sep-07	12	3	4	9	5	4	359	5	16	10	1	2	1	0	0	359	353	348	349	349	344	331	327	329	357	N	
24-Sep-07	322	318	304	292	269	284	265	279	246	232	231	248	209	210	219	207	200	176	123	136	170	195	200	203	222	SW	
25-Sep-07	235	227	242	235	230	218	211	216	226	232	255	252	242	243	236	245	344	16	78	227	235	232	224	214	239	WSW	
26-Sep-07	212	223	229	233	228	238	230	231	230	224	210	230	238	274	350	27	17	352	6	124	253	177	177	211	248	WSW	
27-Sep-07	221	228	211	227	166	135	158	115	141	199	185	185	189	186	189	189	182	180	191	187	191	198	200	199	190	S	
28-Sep-07	319	176	241	245	250	242	232	247	297	213	223	234	231	224	244	328	11	14	359	353	337	325	342	345	283	WNW	
29-Sep-07	346	331	324	310	313	321	322	329	337	338	344	342	320	309	294	293	279	259	245	246	228	186	236	211	312	NW	
30-Sep-07	252	326	216	210	195	182	192	197	201	212	215	219	222	217	202	212	211	209	203	194	189	231	220	224	211	SSW	
Hourly Avg	236	248	258	279	270	268	267	268	255	254	254	260	253	263	273	303	324	332	344	349	282	242	219	225			



PAS - Crescent Heights Standard Deviation of Wind Direction Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	61.3	45.3	19.2	11.2	7.6	4.8	3.8

Status Flag Characters

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

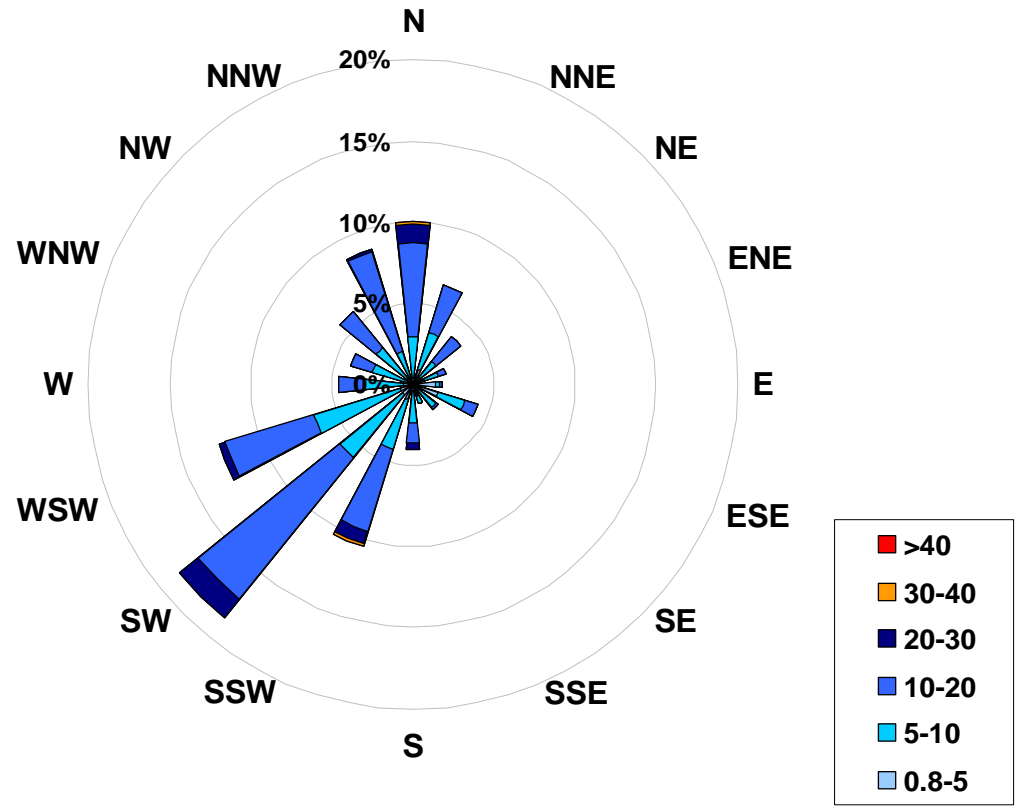
Day Mountain Standard Time

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	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-Sep-07	19	6	15	13	15	16	17	15	19	16	16	11	14	16	13	13	11	9	7	7	7	4	20	29	29.5
2-Sep-07	16	19	17	23	22	9	9	8	11	15	38	59	11	15	24	21	10	8	4	3	3	16	17	27	58.8
3-Sep-07	23	11	51	23	39	17	13	11	9	16	15	18	23	34	25	23	28	26	6	5	10	18	25	20	51.1
4-Sep-07	16	22	27	52	58	46	32	50	13	11	14	12	19	23	22	9	10	6	6	4	3	5	9	14	58.0
5-Sep-07	7	9	18	25	18	5	14	14	22	16	13	15	21	28	62	59	29	28	34	15	15	11	8	7	62.1
6-Sep-07	6	12	18	9	5	5	8	11	15	14	13	14	22	20	20	6	5	10	10	6	7	17	7	6	21.9
7-Sep-07	8	8	11	8	25	15	22	28	33	52	26	15	12	11	15	23	6	8	10	37	18	19	14	13	52.3
8-Sep-07	46	69	31	54	33	12	12	8	20	31	18	27	45	33	39	15	9	42	31	19	8	12	27	40	68.7
9-Sep-07	62	34	32	21	22	64	31	12	21	43	33	17	28	20	18	15	15	16	50	22	12	33	6	4	64.1
10-Sep-07	6	11	6	8	30	23	17	19	16	12	13	14	15	15	15	11	7	7	6	4	11	9	14	12	29.5
11-Sep-07	12	8	13	7	9	10	11	25	35	12	11	13	13	13	17	22	18	12	8	5	31	30	37	40	39.6
12-Sep-07	9	5	9	5	5	5	7	6	5	5	4	7	6	7	8	7	8	7	5	8	10	14	13	10	14.4
13-Sep-07	11	11	10	11	7	18	41	21	55	56	68	63	64	68	39	48	25	15	12	8	8	10	9	7	68.1
14-Sep-07	7	19	19	19	51	51	32	45	10	10	11	11	12	11	15	16	11	8	9	12	33	8	6	7	50.9
15-Sep-07	7	6	42	50	14	4	31	16	8	10	10	10	14	27	20	11	13	21	19	9	7	5	5	4	50.1
16-Sep-07	12	8	8	11	7	6	9	10	5	7	9	11	15	9	11	9	7	7	4	7	4	5	6	8	14.9
17-Sep-07	4	10	55	31	18	11	10	7	7	11	8	8	7	11	11	11	27	39	53	31	34	39	27	29	54.8
18-Sep-07	32	10	30	13	9	7	5	10	11	18	40	37	25	16	10	10	12	9	7	6	6	6	11	13	39.6
19-Sep-07	6	10	7	7	7	5	6	5	5	6	7	6	6	8	7	6	6	8	7	8	7	10	20	14	20.1
20-Sep-07	6	9	9	7	12	10	7	6	8	5	14	8	7	10	12	12	10	18	5	5	12	19	9	14	18.9
21-Sep-07	9	12	10	7	7	6	6	9	8	10	9	11	13	9	11	10	10	10	13	20	21	18	28	6	28.4
22-Sep-07	10	16	8	11	13	13	16	10	20	10	8	8	8	10	9	14	14	7	6	4	6	3	7	6	20.2
23-Sep-07	5	6	4	5	4	10	4	6	8	5	4	4	4	4	4	4	5	5	4	4	6	8	9	8	9.6
24-Sep-07	10	10	13	12	38	30	15	22	21	28	47	43	31	24	25	31	26	18	12	9	24	20	5	22	46.9
25-Sep-07	20	6	16	15	5	16	9	22	10	22	15	31	9	10	12	11	25	7	40	45	10	7	16	9	45.3
26-Sep-07	9	7	12	11	10	9	7	7	7	11	11	13	16	13	12	11	11	6	24	51	45	38	24	16	50.6
27-Sep-07	6	16	11	8	21	10	18	14	19	16	12	8	10	10	11	9	8	10	9	8	5	5	5	6	20.7
28-Sep-07	43	48	17	31	18	13	9	25	43	41	9	10	12	16	14	11	5	7	5	7	8	13	8	9	48.5
29-Sep-07	8	11	10	11	9	8	7	7	7	6	6	8	10	14	15	14	15	14	36	20	9	35	53	53	52.9
30-Sep-07	22	48	19	36	49	12	7	7	6	7	9	10	8	6	11	7	8	5	6	5	8	45	5	6	49.1

Hourly Max 62 69 55 54 58 64 41 50 55 56 68 63 64 68 62 59 29 42 53 51 45 45 53 53



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



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	81
5	to	10	259
10	to	20	346
20	to	30	32
30	to	40	2
	>	40	0
Total Non-Zero Values			720



PALLISER AIRSHED SOCIETY

Passive Monitoring – September 2007

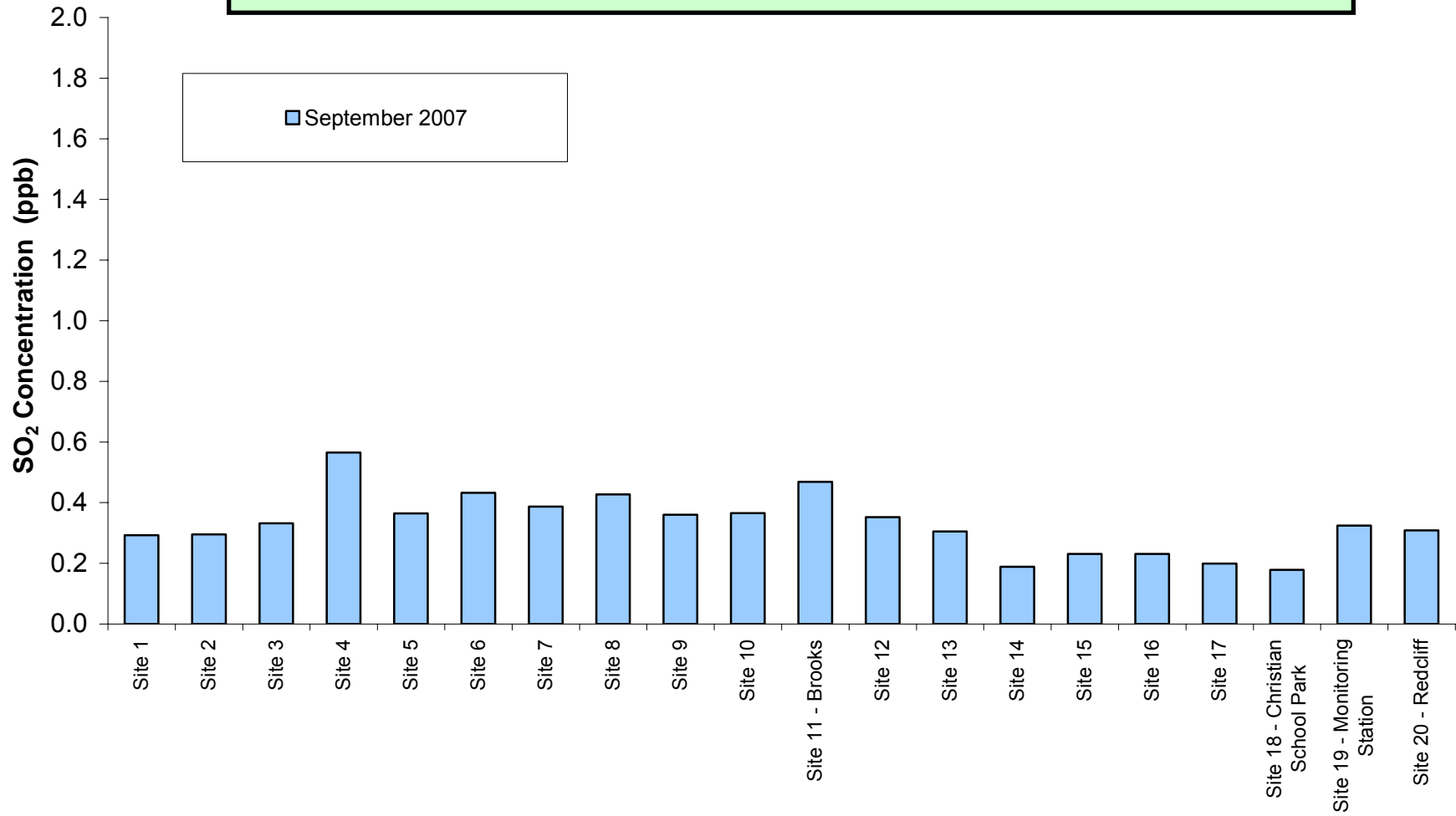


Palliser Airshed Society - Palliser Passive Stations for September 2007 Palliser Passive Monitoring Expansion

Station Number	Station	SO2 ppb	O3 ppb	NO2 ppb	Location		Elevation meter
	Name				Easting	Northing	
Duplicates							
1a	Site 1	0.2	29.9	1.8			
1b	Site 1	0.3	30.6	0.3			
11a	Site 11	0.5	24.7	4.0			
11b	Site 11	0.4	23.4	3.9			
1	Site 1	0.3	30.3	1.0	562434	5583139	719
2	Site 2	0.3	30.1	1.1	565416	5616277	
3	Site 3	0.3	28.1	1.1	533794	5675379	779
4	Site 4	0.6	26.2	1.2	554771	5717338	718
5	Site 5	0.4	24.5	1.6	494218	5715862	735
6	Site 6	0.4	25.7	2.0	433039	5673766	818
7	Site 7	0.4	25.2	2.3	400808	5620907	780
8	Site 8	0.4	28.2	2.4	498530	5621839	747
9	Site 9	0.4	27.6	2.5	487701	5591707	763
10	Site 10	0.4	29.6	2.6	478223	5613583	774
11	Site 11 - Brooks	0.5	24.1	3.9	439773	5604548	736
12	Site 12	0.4	23.5	2.3	450287	5587201	726
13	Site 13	0.3	26.8	1.5	464279	5548934	
14	Site 14	0.2	27.4	1.8	493206	5521201	870
15	Site 15	0.2	29.2	1.3	465824	5485742	874
16	Site 16	0.2	32.1	0.8	503827	5446942	903
17	Site 17	0.2	30.1	0.7	557668	5452307	942
18	Site 18 - Christian School Park	0.2	26.8	6.0	526575	5538135	709
19	Site 19 - Monitoring Station	0.3	26.3	6.9	522813	5544137	714
20	Site 20 - Redcliff	0.3	25.2	4.5	517479	5546059	725

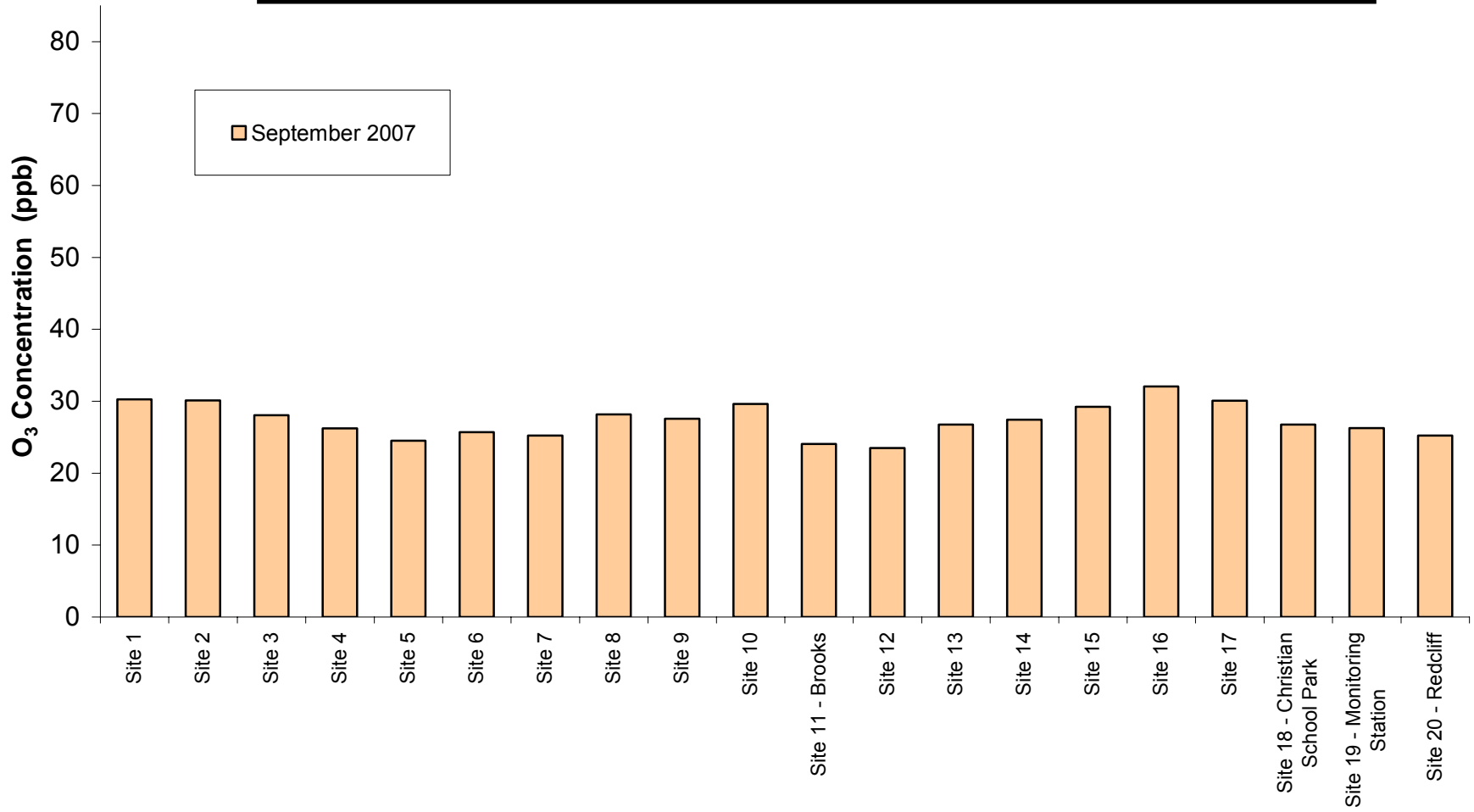


Alberta Ambient Air Quality Objective - Annual SO₂ Objective is 11 ppb



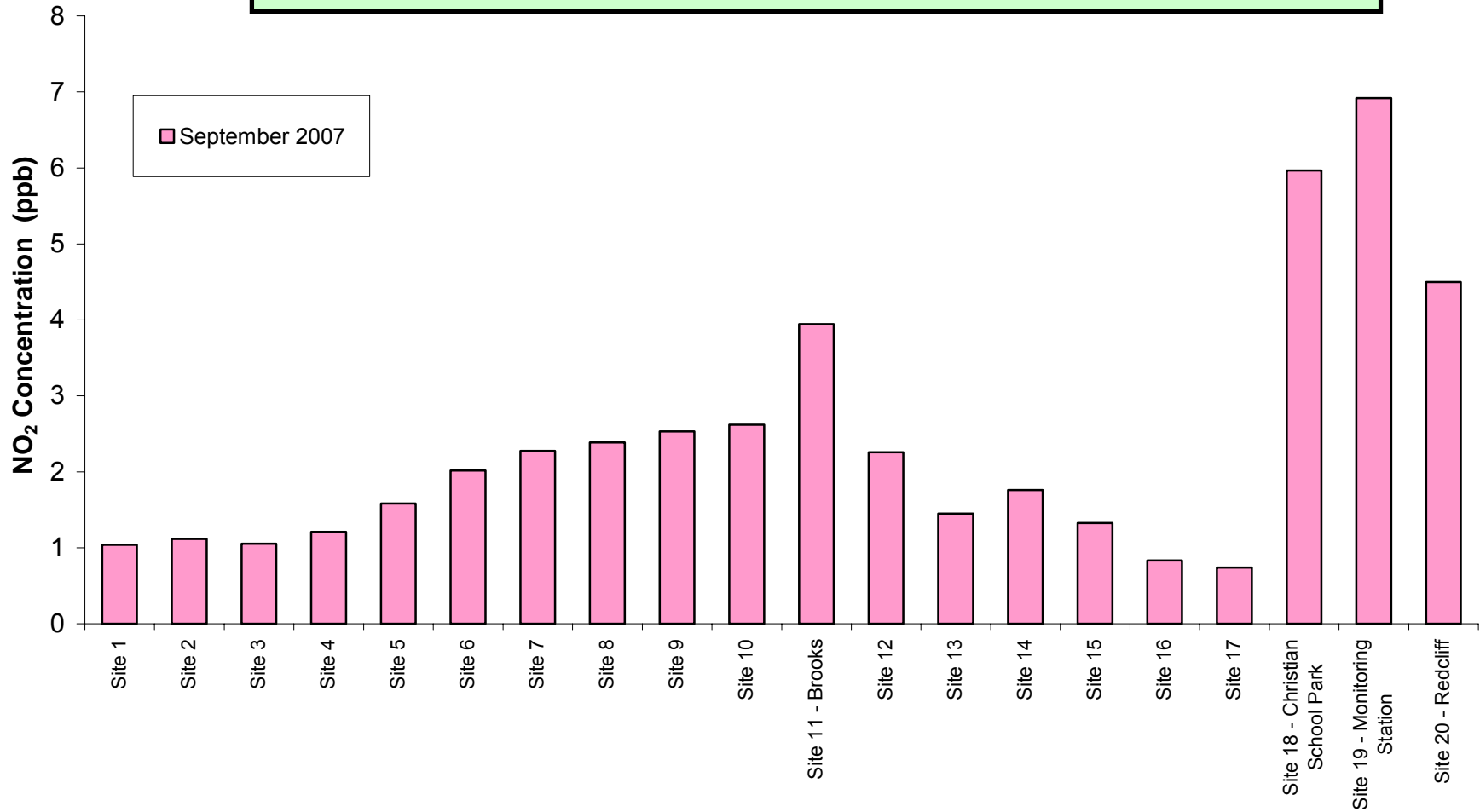


Alberta Ambient Air Quality Objective - No Annual O₃ Objective





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



Palliser Airshed Society September 2007 - Calibration Reports

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

Calibration Report

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

Station Information

Calibration Date	September 12, 2007	Previous Calibration	August 2, 2007
Station Number	101	Station Location	Crescent Heights
Reason:	<input type="checkbox"/> Routine	<input type="checkbox"/> Calibration	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other: <input type="checkbox"/> Installation
Start Time (MST)	10:46	End Time (MST)	14:45
Barometric Pressure	27.6 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
	Before		After
Calculated slope	0.995368	Calculated slope	1.029755
Calculated intercept	3.282196	Calculated intercept	3.927812
Analyzer make	TEI 49i	Analyzer serial #	713021144

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
O3 Background	NA	ppb	0.6	ppb
O3 Coeff	NA		1.099	
CellA	NA	Hz	86926.0	Hz
CellB	NA	Hz	116655.0	Hz
Pressure	NA	mmHg	699.1	mmHg
Cell A Flow	NA	ccm	724.0	ccm
Cell B Flow	NA	ccm	714	ccm
Bench	NA	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)
4995	0.0	0.0	0.2	N/A
4995	300.0	300.0	289.2	1.0375
4995	200.0	200.0	190.6	1.0492
4995	100.0	100.0	87.4	1.1438
4995	0.0	0.0	-4.3	0.0000
4995	300.0	300.0	267.9	1.1198
Average Correction Factor				1.0769

Calculated value of As Found Response: 274.3 ppm Percent Change of As Found: -8.6%

	before calibration		after calibration	
Auto zero	-3.4	ppb	4.1	ppb
Auto span	370.3	ppb	518.8	ppb

Notes: Removed the API 400E O3 analyzer and installed and calibrated a brand new API 49i

Calibration Performed By: Lenin Flores

Calibration Summary

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

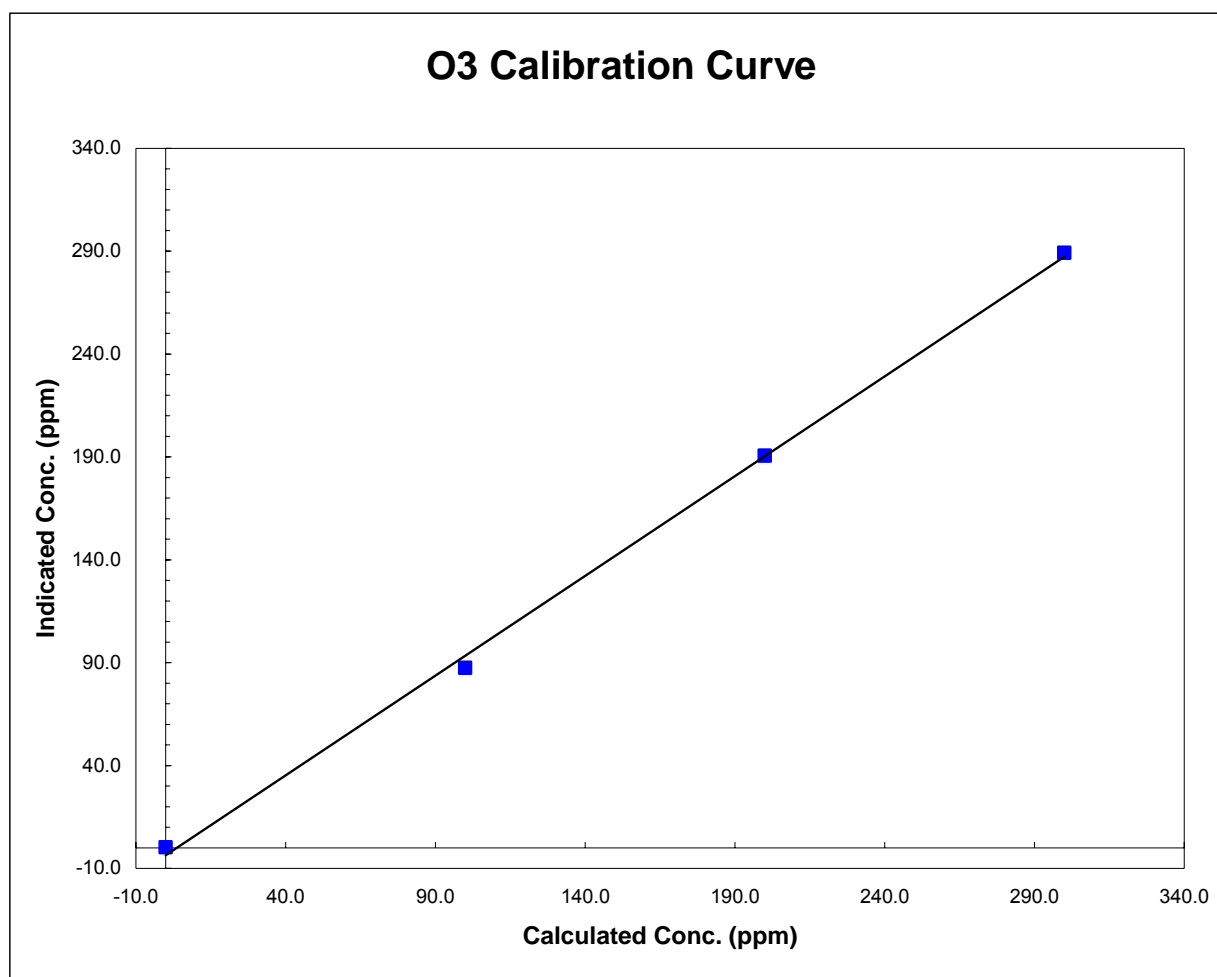


Station Information

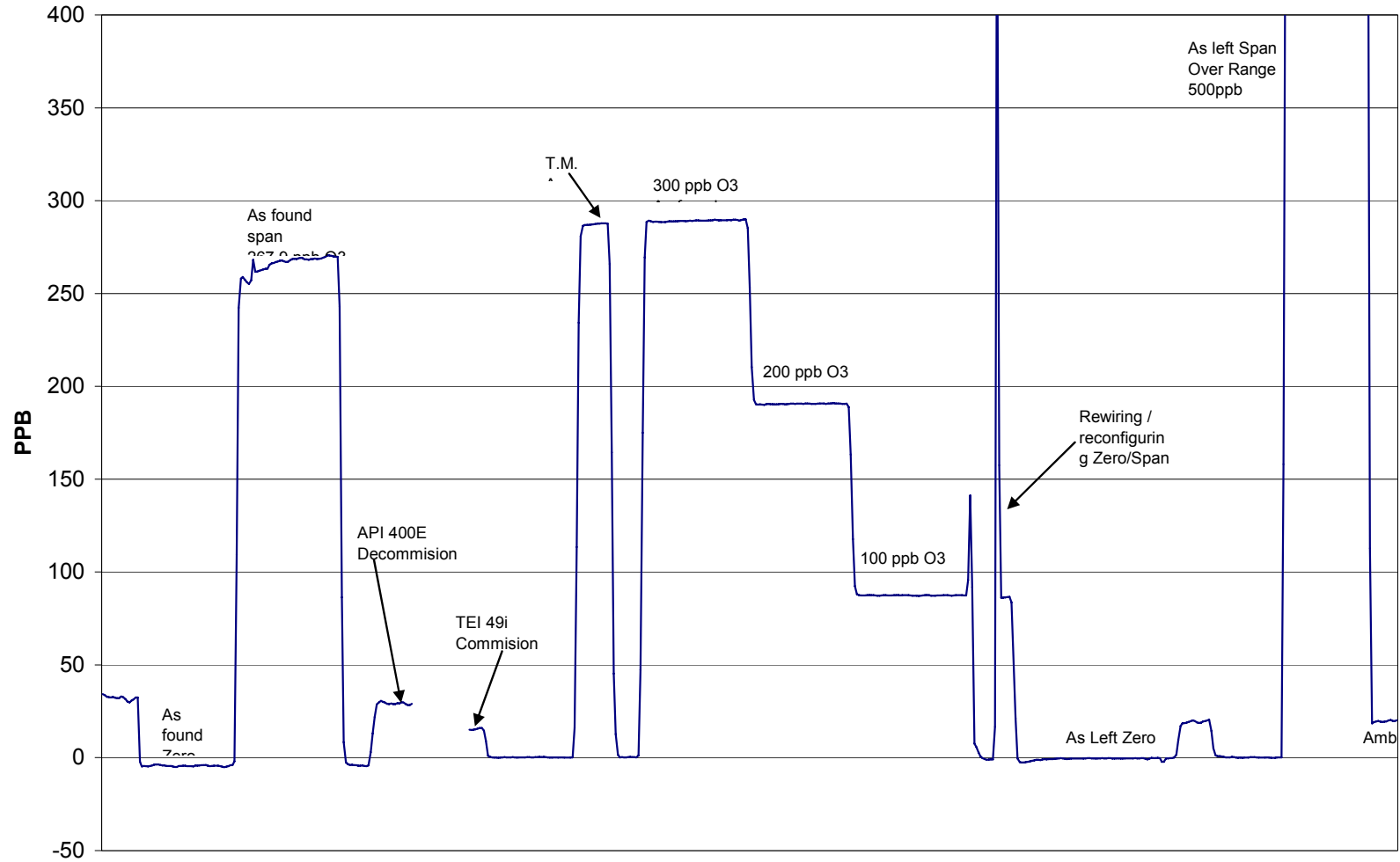
Calibration Date	September 12, 2007	Previous Calibration	August 2, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:46	End Time (MST)	14:45
Analyzer make/model	TEI 49i	Analyzer serial #	713021144

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
300.0	289.2	1.0375	Correlation Coefficient	0.998868
200.0	190.6	1.0492		
100.0	87.4	1.1438		
0.0	0.2	N/A		
			Slope	1.029755
			Intercept	3.927812



Crescent Heights - O3 Calibration



September 12, 2007

Calibration Report

Parameter
Air Monitoring Network

NOx-NO-NO₂
Palliser Airshed



Station Information

Calibration Date	September 12, 2007	Previous Calibration	August 1, 2007
Station Number	101	Station Location	Crescent Heights
Reason:	Routine	Installation	Removal
Other:			
Start Time (MST)	11:00	End Time (MST)	11:45
Barometric Pressure	27.6 inches Hg	Station Temperature	20.0 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	1.003798	1.005000	1.002843
	Data Offset	1.206882	1.678703	2.742421
After	Data Slope	1.012615	1.012981	1.010324
	Data Offset	1.182718	-1.615911	-1.162354
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	2.1	mV	-0.1	mV
NOx background	3.5	mV	0.8	mV
NO coefficient	2.211		2.406	
NOx coefficient	2.217		2.468	
Chamber Temp	50.0	Deg C	50.0	Deg C
Cooler Temp	7.1	Deg C	7.1	Deg C
Azero	39.8		42.3	
Perm Temp	40.2	Deg C	40.2	Deg C
Pressure	3.8	inches Hg	3.9	inches Hg
Sample Flow	459.0	ccm	455.0	ccm

Notes: As founds capture on Sept/11. Maintenance performed on analyzer. Internal S.S. valves were replaced and analyzer was put on Maintenance mode overnight to allow for stabilization before calibration. Adjusted Zero and Span during Sept/12 calibrations.

Calibration Report

Parameter

NO_x-NO-NO₂

Air Monitoring Network

Palliser Airshed



Station Information

Calibration Date: September 12, 2007

Station Location: Crescent Heights

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor
zero	4991	0.00	0.0	0.0	0.0	-0.8	-1.0	-0.8	N/A	N/A
1	4995	39.94	387.9	387.9	0.0	383.0	383.7	-1.2	1.0127	1.0109
2	4995	19.96	194.6	194.6	0.0	195.6	195.6	-0.8	0.9948	0.9950
3	4995	9.94	97.2	97.2	0.0	99.5	99.0	-0.5	0.9769	0.9812
AFZ	4995	0.00	0.0	0.0	0.0	-1.3	-3.3	0.5	0.0000	0.0000
AFS	4995	39.94	387.9	387.9	0.0	327.4	331.6	-5.0	1.1849	1.1697
								Average Correction Factor	0.9948	0.9957

As Found Concentrations

NO_x= 330.3

NO= 337.7

As Found Percent Change

NO_x= -14.8%

NO= -12.9%

GPT Calibration Data

Dilution Flow 4995 ccm Source Gas Flow 39.94 ccm

O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency	
0	326.4	325.4	1.0	323.8	323.2	-0.8	N/A	N/A	N/A	N/A	
300	381.3	123.0	258.3	378.0	122.9	254.0	1.0087	1.0009	1.0168	98.3%	
200	385.8	208.1	177.7	382.5	207.2	174.4	1.0088	1.0047	1.0189	98.1%	
100	386.8	304.9	81.9	383.5	302.9	79.2	1.0088	1.0065	1.0343	96.7%	
							Average Correction Factor	1.0087	1.0040	1.0234	97.7%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	0.2	-2.4	-0.6	ppb	21.6	5.5	15.2	ppb
Auto span	432.3	418.3	8.2	ppb	417.6	409.1	7.7	ppb

Calibration Performed By: Lenin Flores

Calibration Summary

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

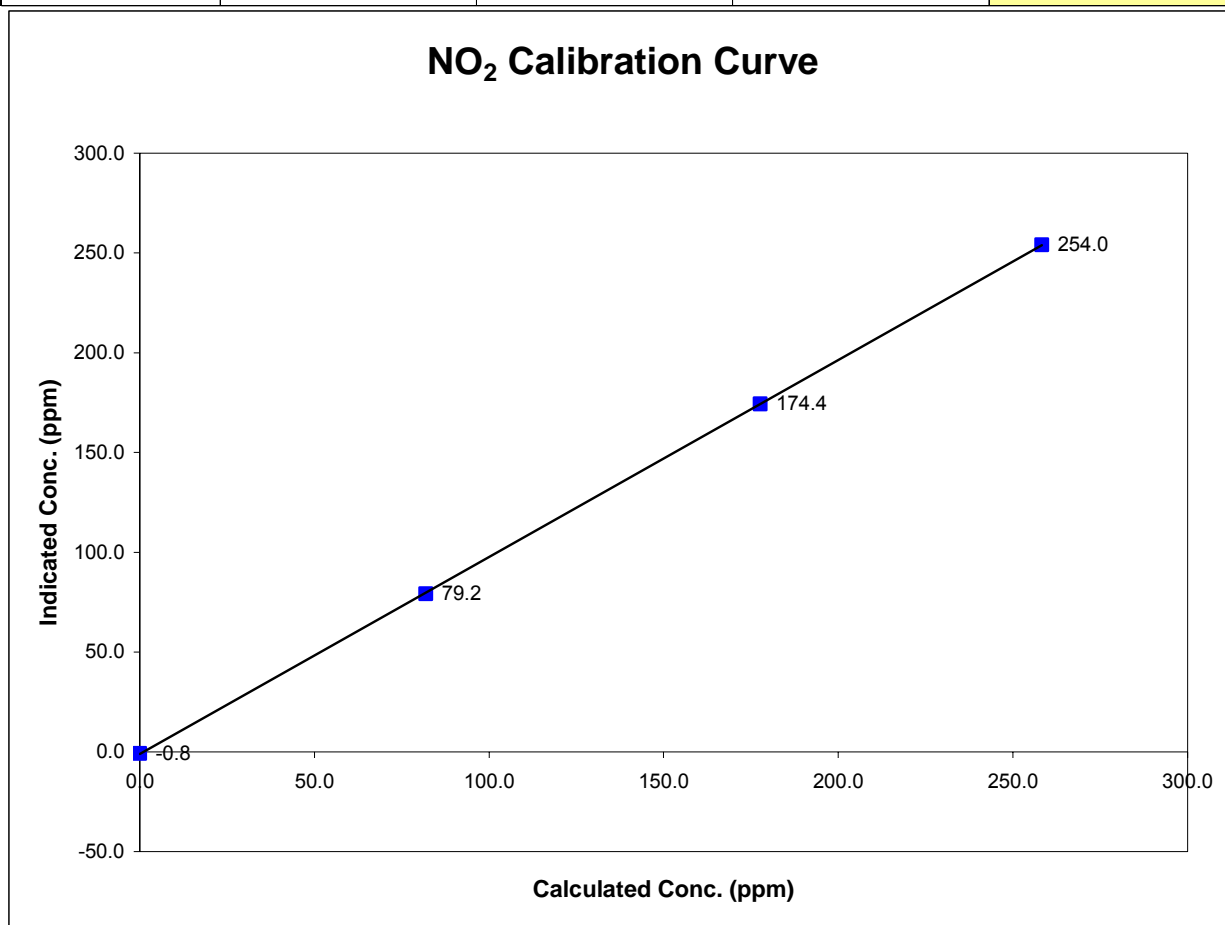


Station Information

Calibration Date	September 12, 2007	Previous Calibration	August 1, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	11:00	End Time (MST)	11:45
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	-0.8	0.0000	Correlation Coefficient	0.999989
258.3	254.0	1.0168		
177.7	174.4	1.0189		
81.9	79.2	1.0343		
			Slope	1.012615
			Intercept	1.182718



Calibration Summary

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



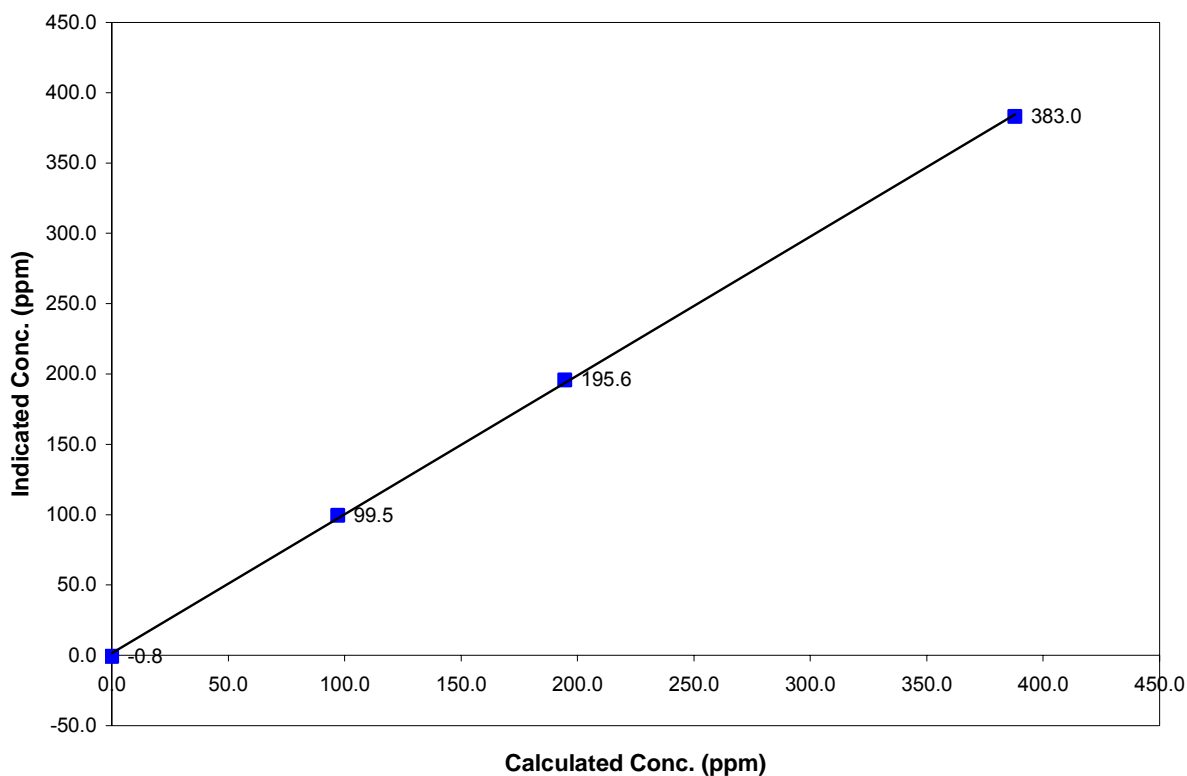
Station Information

Calibration Date	September 12, 2007	Previous Calibration	August 1, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	11:00	End Time (MST)	11:45
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	-0.8	0.0000	Correlation Coefficient	0.999810
387.9	383.0	1.0127		
194.6	195.6	0.9948		
97.2	99.5	0.9769		
			Slope	1.012981
			Intercept	-1.615911

NO_x Calibration Curve



Calibration Summary

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

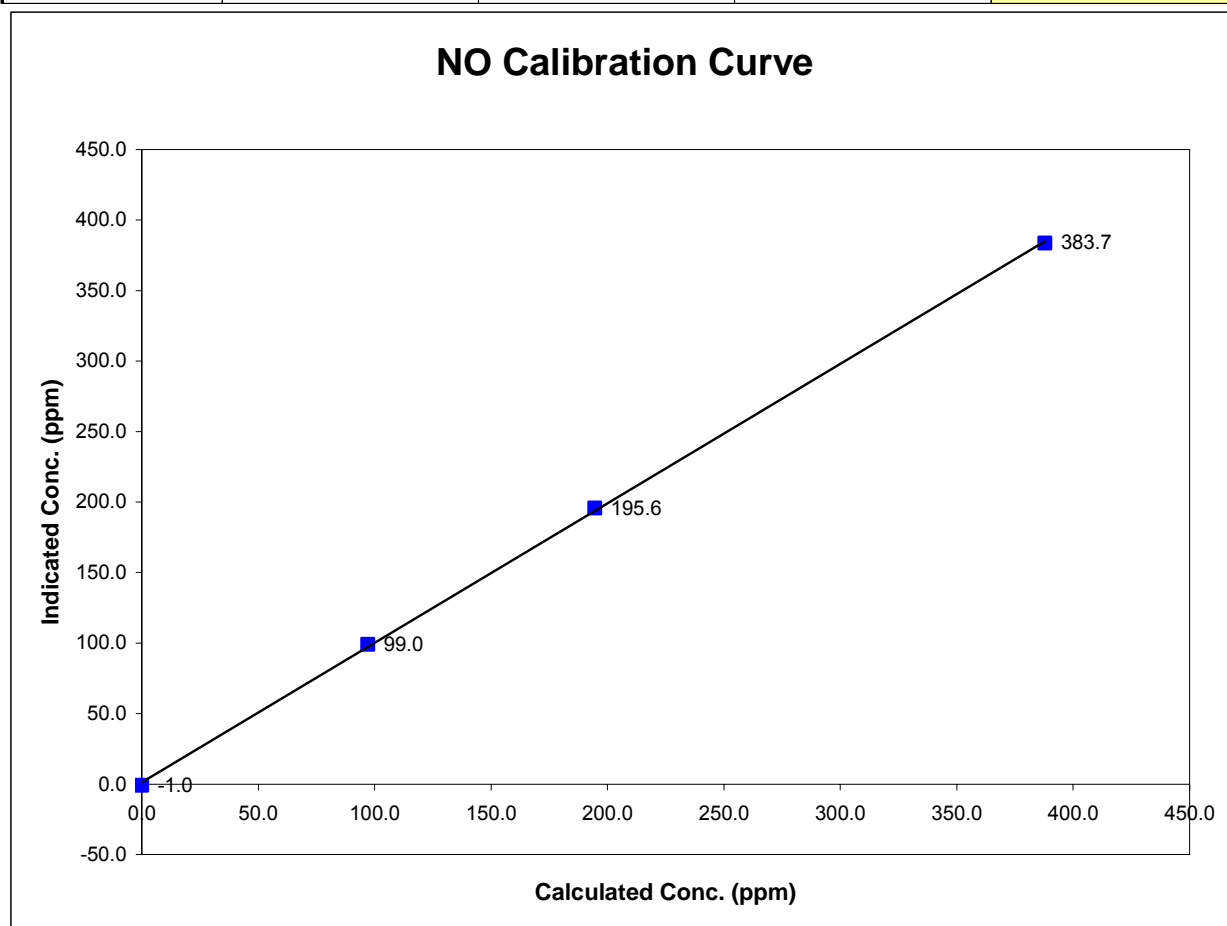


Station Information

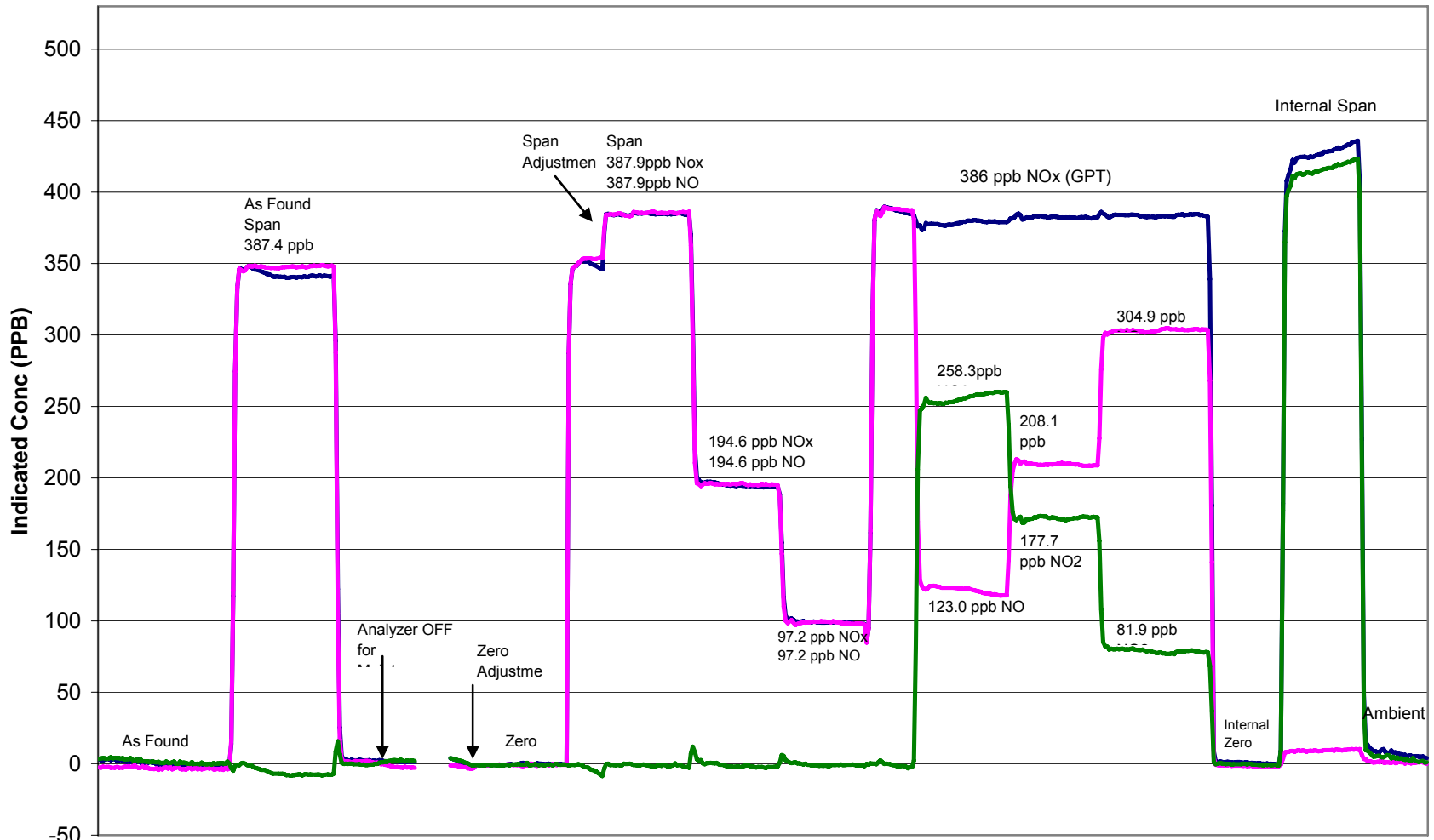
Calibration Date	September 12, 2007	Previous Calibration	August 1, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	11:00	End Time (MST)	11:45
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-1.0	N/A		
387.9	383.7	1.0109	Correlation Coefficient	0.999842
194.6	195.6	0.9950		
97.2	99.0	0.9812	Slope	1.010324
			Intercept	-1.162354



Crescent Heights - NOx Calibration



September 12, 2007

Calibration Report

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



Station Information

Calibration Date	September 12, 2007	Previous Calibration	August 2, 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)	9:45	End Time (MST)	19:45
Barometric Pressure	27.5 inches Hg	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 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	1.002027	Calculated slope	1.000383
Calculated intercept	-0.093429	Calculated intercept	0.001958
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	12340	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	0.00	N/A
4995	79.85	24.08	24.08	0.9997
4995	39.94	12.14	12.08	1.0045
4995	19.95	6.09	6.11	0.9967
zero	0.00	0.00	0.18	As Found Zero
4995	79.92	24.10	24.07	As Found Span
Average Correction Factor				1.0003

Calculated value of As Found Response: 23.846 ppm Percent Change of As Found: 1.0%

	before calibration		after calibration	
Auto zero	-0.06	ppm	0.01	ppm
Auto span	18.57	ppm	18.61	ppm

Notes: Upon arrival to the station, noticed the THC Zero Air pump was failing, captured as founds and replaced the Zero Air System pump. Also, replaced the internal sample pump.

Calibration Performed By: Lenin Flores

Calibration Summary

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

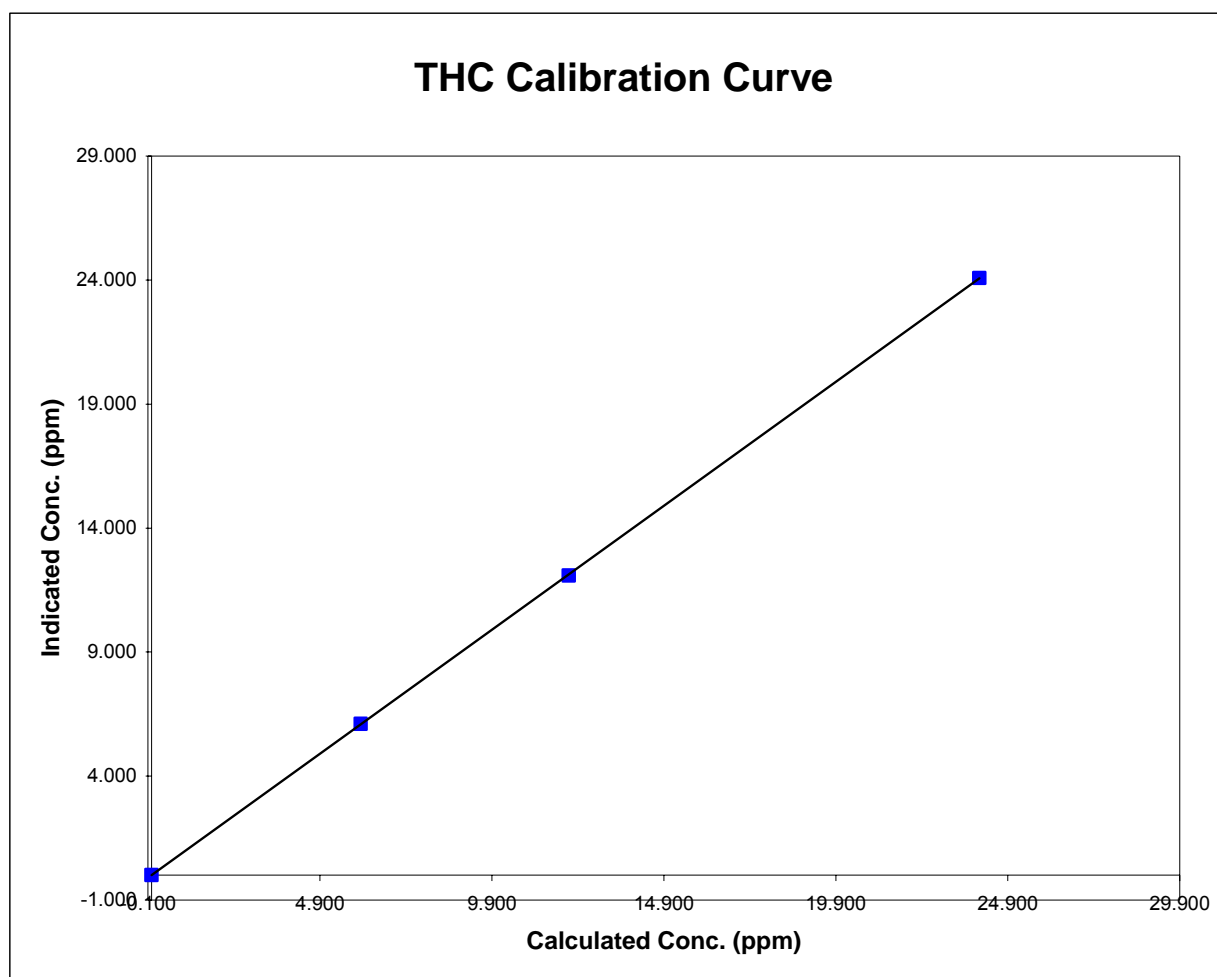


Station Information

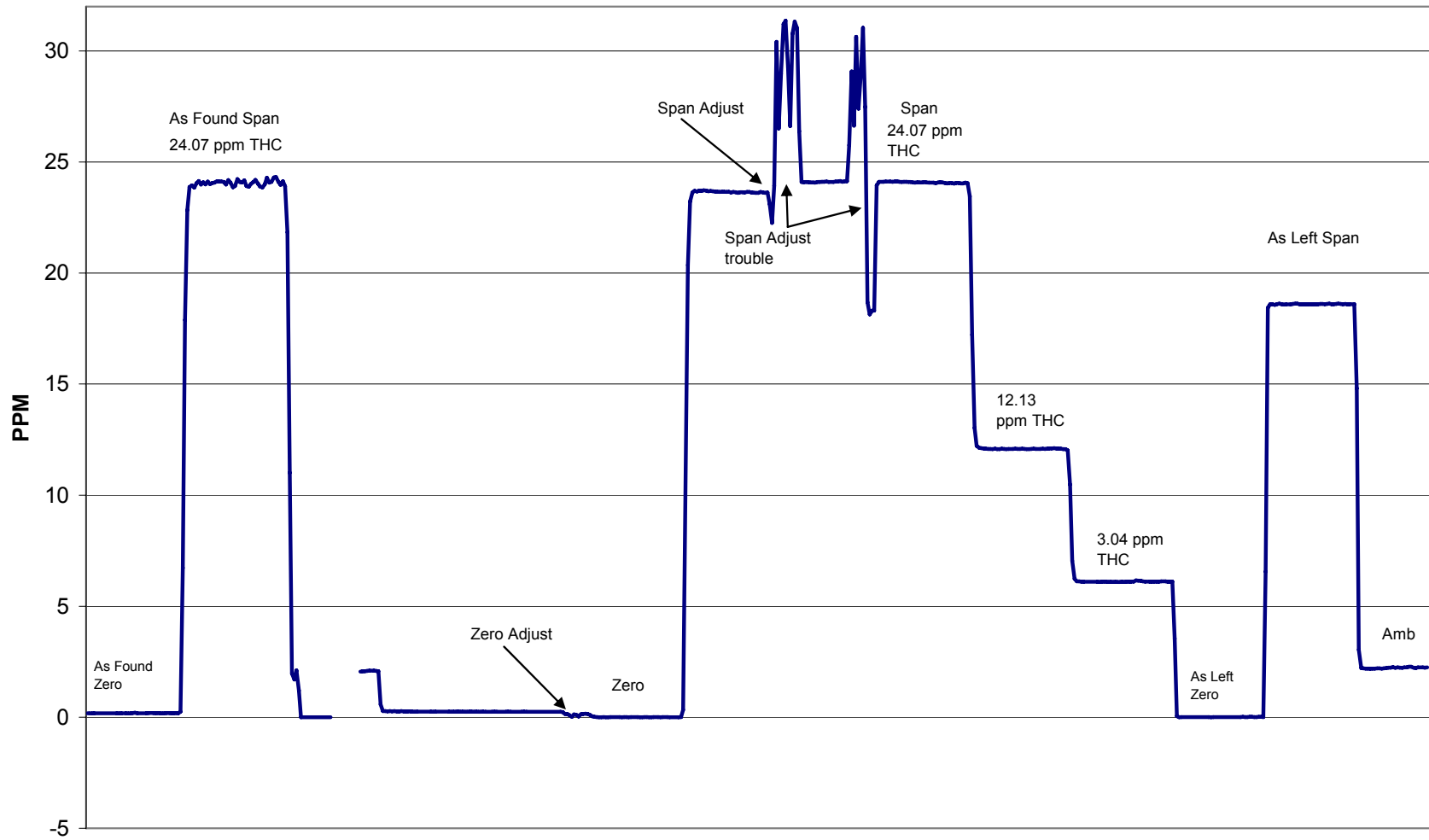
Calibration Date	September 12, 2007	Previous Calibration	August 2, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	9:45	End Time (MST)	19:45
Analyzer make/model	TEI model 51C-LT	Analyzer serial #	407505596

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.004	N/A		
24.078	24.084	0.9997	Correlation Coefficient	0.999990
12.139	12.085	1.0045		
6.087	6.107	0.9967	Slope	1.000383
			Intercept	0.001958



Crescent Heights - THC Calibration



Calibration Report



Parameter **CO**
 Air Monitoring Network **Palliser Airshed**

Station Information

Calibration Date	September 11, 2007	Previous Calibration	August 1, 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)	12:16	End Time (MST)	15:20
Barometric Pressure	27.56 in Hg	Station Temperature	22.0 Deg C
Calibrator	EnviroNics 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
	Before		After
Calculated slope	1.005319	Calculated slope	0.997565
Calculated intercept	-0.219587	Calculated intercept	-0.613590
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)
4991	0.00	0.00	0.51	N/A
4996	69.88	41.36	41.98	0.9851
4996	39.93	23.77	24.56	0.9680
4996	19.96	11.93	12.66	0.9422
4996	0.00	0.00	0.51	0.0000
4996	69.88	41.36	41.98	0.9851
Average Correction Factor				0.9651

Calculated value of As Found Response: 41.476 ppm Percent Change of As Found: -0.3%

	before calibration		after calibration	
Auto zero	-0.07	ppm	-0.10	ppm
Auto span	19.20	ppm	19.35	ppm

Notes: No adjustments made.

Calibration Performed By: Lenin Flores

Calibration Summary



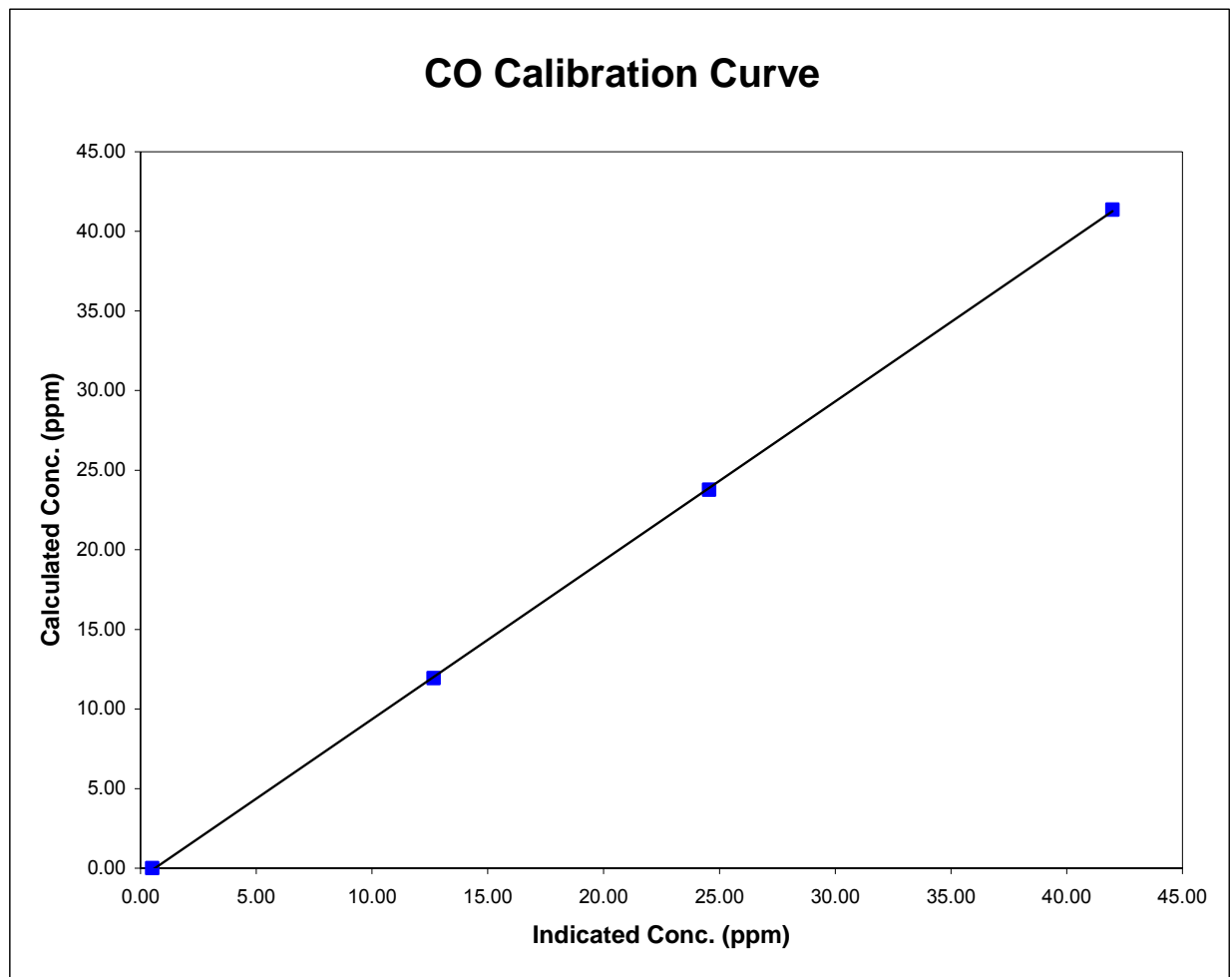
Parameter **CO**
 Air Monitoring Network **Palliser Airshed**

Station Information

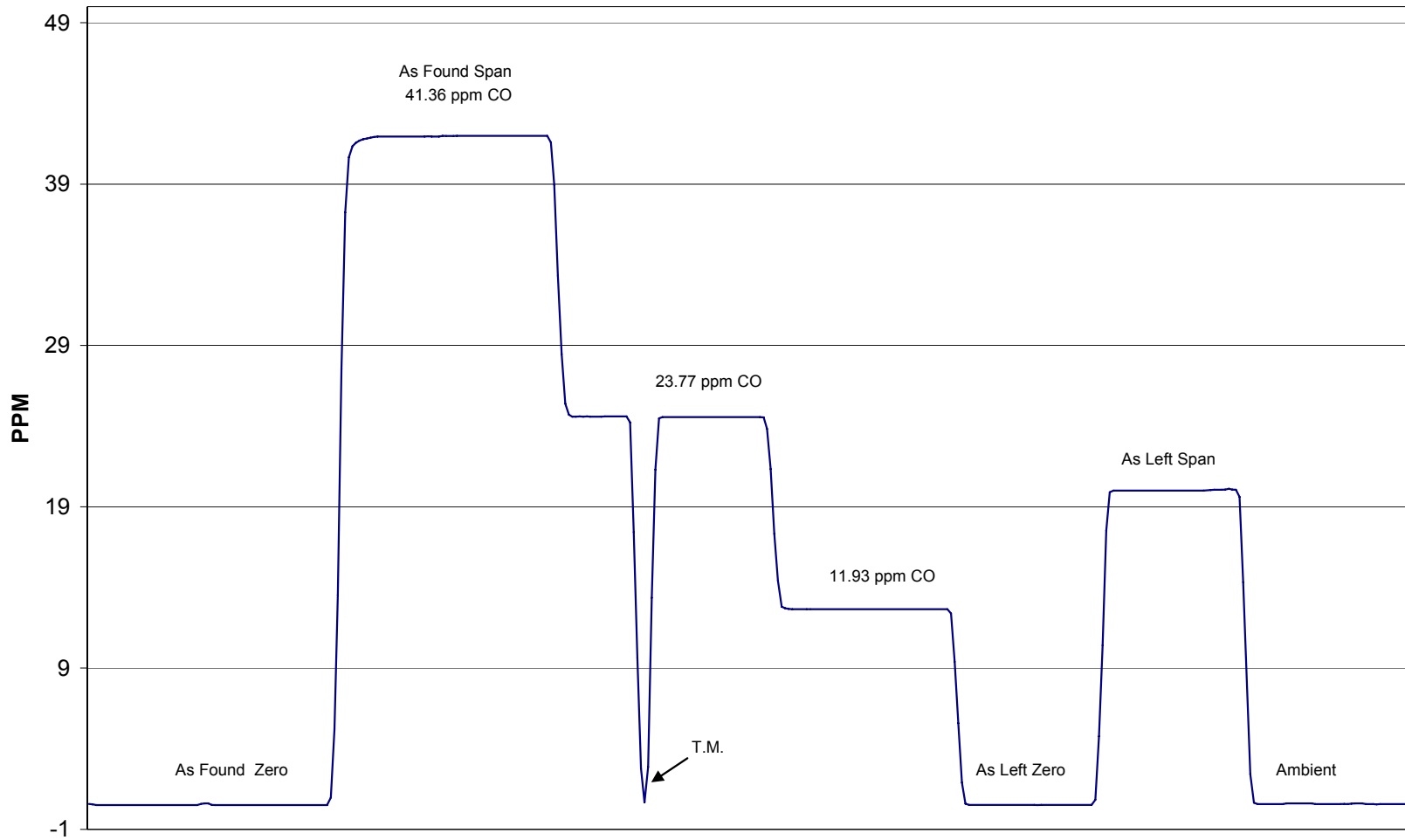
Calibration Date	September 11, 2007	Previous Calibration	August 1, 2007
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	12:16	End Time (MST)	15:20
Analyzer make/model	TEI Model 48C	Analyzer serial #	436609887

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.00	0.51	N/A		
41.36	41.98	0.9851	Correlation Coefficient	0.999957
23.77	24.56	0.9680		
11.93	12.66	0.9422	Slope	0.997565
			Intercept	-0.613590



Crescent Heights - CO Calibration



September 11, 2007

Calibration Report



Parameter **PM2.5**
 Air Monitoring Network **Palliser Airshed**

Station Information

Calibration Date	September 12, 2007	Previous Calibration	June 26, 2007
Station Number	1	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:45	End Time (MST)	11:15
Barometric Pressure	0.921 ATM	Station Temperature	20.0 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	13.67	SLPM	13.65	SLPM
Filter Load	50%	%	20%	%
Ko Factor	NA		NA	
Temperature	8.0	Deg C	8.0	Deg C
Pressure	0.921	ATM	0.921	ATM

Calibration Data

Parameter	Set Point	TEOM Reading (as found)	Tolerance	TEOM Reading (after adjustments)
zero flow - main	0.0	0.00	0.00	0.00
zero flow - auxillary	0.0	-0.01	0.01	-0.01
flow recovery - main	45 - 60 Seconds	38.0	45 - 60 Seconds	38.0
flow recovery - aux	46 - 60 Seconds	45.0	46 - 60 Seconds	45.0
Temperature	measured	8.0	+/- 1.0 Deg C	8.0
Pressure	measured	0.921	+/- 1.5% ΔATM	0.921
Total Flow	16.67 SLPM	15.63		16.69
Auxiliary flow	13.67 SLPM	12.58	+/- 1.0 SLPM	13.63
Main flow	3.0 SLPM	3.064	+/- 0.2 SLPM	3.057
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: Only auxiliary flow was adjusted...

Calibration Performed By: Lenin Flores

Calibration Report



Parameter **PM2.5**
 Air Monitoring Network **Palliser Airshed**

Station Information

Calibration Date	September 28, 2007	Previous Calibration	September 12, 2007
Station Number	1	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	14:00	End Time (MST)	14:45
Barometric Pressure	0.900 ATM	Station Temperature	20.0 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	26%	%	26%	%
Ko Factor	NA		NA	
Temperature	23.0	Deg C	23.0	Deg C
Pressure	0.900	ATM	0.900	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	-0.01	0.01	-0.01
flow recovery - main	45 - 60 Seconds	38.0	45 - 60 Seconds	38.0
flow recovery - aux	46 - 60 Seconds	45.0	46 - 60 Seconds	45.0
Temperature	measured	23.0	+/- 1.0 Deg C	23.0
Pressure	measured	0.900	+/- 1.5% ΔATM	0.900
Total Flow	16.67 SLPM	17.36		16.66
Auxiliary flow	13.67 SLPM	14.33	+/- 1.0 SLPM	13.63
Main flow	3.0 SLPM	3.030	+/- 0.2 SLPM	3.030
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: Only auxiliary flow was adjusted... Leak test, zero flow test, and flow recovery tests not performed.

Calibration Performed By: Travis Mehrer