



Air Quality Monitoring Network for August 2005

Prepared by
FOCUS
 AMBIENT AIR MONITORING

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Alberta Environment
Enforcement and Monitoring Division
11th Floor, Oxbridge Place
9820 - 106th Street
Edmonton, Alberta, T5K 2J6

Re: Peace Airshed Zone Association (PASZA) – August Ambient Air Report

Enclosed is the PASZA Ambient Monitoring Network Report for the month of **August 2005**.

Continuous Monitoring: Four (4) Stations including Henry Pirker (Grande Prairie), Evergreen Park, Smoky Heights and Beaverlodge

Included in this report is a summary of the monthly continuous monitoring, detailed hourly average reports and multipoint calibration reports of all instruments. Operational summaries can be found on the “Monthly Summary” and “Continuous Monitoring” pages of the report. The measured ambient air quality was within the Provincial and Federal guidelines with no exceedences recorded.

Three of the four continuous monitoring stations operated without any problems. The THC analyzer at the Henry Pirker station had a flame out situation that resulted in 145 hours removed. A 90% downtime was called into AENV (reference #164835). Please refer to attached letter addressed to Alberta Environment for details.

Passive Monitoring: 43 Stations throughout the PASZA zone:

The samples collected at site #38 (Karr Creek) were left in the field over two months (July and August) due to a logging road being closed from an accident and the site being inaccessible. In addition site #23 (Bear Lake) was vandalized and the passives including the shelter head were stolen. Site #39 (Clouston Creek) also had the NO₂ passive damaged and sample was not analyzed. A summary of the remaining passive data collected are reported as follows.

- Monthly average concentrations for SO₂ passives ranged from 0.1 ppb to 0.5 ppb.
- Monthly average concentrations for NO₂ passives ranged from 0.4 ppb to 5.5 ppb.
- Monthly average concentrations for O₃ passives ranged from 12.6 ppb to 25.6 ppb.

If you have any questions, please contact the Focus office at 1-888-869-2252 (Gary Cross) or 1-888-466-6555 (Kevin McCullum).

On Behalf of the,
Peace Airshed Zone Association

Kevin Warren
PASZA Technical Program Manager

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

October 12, 2005

Standards & Approvals Division
Alberta Environment
4th Floor, Oxbridge Place
9820 – 106 Street
Edmonton, Alberta T5K 2J6

ATTENTION: Director

RE: PASZA Air Monitoring Directive Non-compliance Report Ref # 164835

A non-compliance of the Alberta Air Monitoring Directive was recently reported by Focus to Alberta Environment (AENV) on behalf of the Peace Airshed Zone Association (PASZA). The non-compliance was less than ninety (90%) percent uptime for the month of August for the Total Hydrocarbons (THC) parameter at the Henry Pirker Air Monitoring Station located in Grande Prairie, Alberta. The station is owned by PASZA and operated on their behalf by Focus. The non-compliance has been assigned AENV reference number 164835.

The cause of the non-compliance was due to a failed auxiliary system, the zero air supply, quit operating following a brief power failure. As a result of this issue the following actions have and will be taken:

1. Inclusive alarms have been incorporated that alert management and service staff to failed or low THC values.

If there are any questions or concerns please call me at your convenience.

Sincerely,

THE FOCUS CORPORATION



Kelly Baragar
AQM Technical Supervisor

PASZA Monthly Continuous Data Summary

Aug-2005 Peace Airshed Zone Association							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	
SO ₂ (ppb)	172	57	Henry Pirker	0.3	0	0	23.6	Aug-25 09:00	8.8	SW	2.1	Aug-25	100.0%
SO ₂ (ppb)	172	57	Evergreen Park	0.9	0	0	35.3	Aug-24 07:00	6.3	WSW	4.4	Aug-24	99.7%
SO ₂ (ppb)	172	57	Smoky Heights	0.4	0	0	5.1	Aug-06 07:00	9.5	SW	1.1	Aug-03	99.3%
SO ₂ (ppb)	172	57	Beaverlodge	0.2	0	0	6.6	Aug-24 18:00	8.5	SE	0.8	Aug-15	90.6%
NO (ppb)			Henry Pirker	3.4	-	-	72.2	Aug-26 06:00	4.2	WSW	9.6	Aug-18	100.0%
NO ₂ (ppb)	212	106	Henry Pirker	6.2	0	0	30.1	Aug-25 20:00	4.2	SE	9.9	Aug-04	100.0%
NO _x (ppb)			Henry Pirker	9.4	-	-	79.3	Aug-26 06:00	4.2	WSW	18.4	Aug-25	100.0%
NO (ppb)			Beaverlodge	0.3	-	-	11.8	Aug-27 08:00	4.2	NE	1.5	Aug-27	98.9%
NO ₂ (ppb)	212	106	Beaverlodge	2.7	0	0	10.9	Aug-03 20:00	3.8	W	5.8	Aug-20	98.9%
NO _x (ppb)			Beaverlodge	3.2	-	-	23.0	Aug-27 08:00	4.2	NE	7.0	Aug-20	98.9%
O ₃ (ppb)	82		Henry Pirker	17.4	0	-	47.4	Aug-27 15:00	7.5	ESE	28.8	Aug-28	100.0%
O ₃ (ppb) - 8-hr		65	Henry Pirker			0					41.0	Aug-28	
O ₃ (ppb)	82		Beaverlodge	22.0	0	-	47.0	Aug-27 17:00	5.6	NNE	31.8	Aug-28	98.0%
O ₃ (ppb) - 8-hr		65	Beaverlodge			0					44.2	Aug-28	
CO (ppm)	13		Henry Pirker	0.19	0	-	0.9	Aug-25 21:00	4.8	S	0.3	Aug-25	99.7%
CO (ppm) - 8-hr		5	Henry Pirker			0					0.5	Aug-20	
THC (ppm)			Henry Pirker	2.01	-	-	3.0	Aug-25 07:00	5.2	SSE	2.2	Aug-25	80.5%
TRS (ppb)			Henry Pirker	0.2	-	-	2.0	Aug-01 00:00	3.1	ESE	0.4	Aug-01	100.0%
TRS (ppb)			Evergreen Park	0.5	-	-	1.5	Aug-11 22:00	4.4	NNW	0.6	Aug-25	100.0%
TRS (ppb)			Smoky Heights	0.5	-	-	1.5	Aug-04 18:00	16.8	WSW	0.9	Aug-31	98.9%
PM _{2.5} (µg/m ³)		30 ^a	Henry Pirker	3.8	0	0	23.5	Aug-25 21:00	4.8	S	12.6	Aug-13	99.2%
PM _{2.5} (µg/m ³)		30 ^a	Evergreen Park	4.7	0	0	27.1	Aug-13 16:00	7.1	ENE	15.4	Aug-13	99.1%
PM _{2.5} (µg/m ³)		30 ^a	Smoky Heights	3.3	0	0	51.7	Aug-19 19:00	6.9	E	12.0	Aug-13	95.4%
PM _{2.5} (µg/m ³)		30 ^a	Beaverlodge	3.8	0	0	41.7	Aug-13 21:00	4.1	NE	19.5	Aug-13	94.4%
RH (%)			Henry Pirker	68.5	-	-	-	-	-	-	-	-	100.0%
RH (%)			Beaverlodge	67.4	-	-	-	-	-	-	-	-	100.0%
SR (W/m ²)			Henry Pirker	185.0	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Henry Pirker	14.1	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Evergreen Park	13.3	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Smoky Heights	12.0	-	-	-	-	-	-	-	-	99.7%
Temp (°C)			Beaverlodge	13.6	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)			Henry Pirker	9.2	-	-	-	Aug-31 15:00	29.9	WSW	18.1	31-Aug	100.0%
WSPD v (km/hr)			Evergreen Park	6.6	-	-	-	Aug-31 10:00	24.0	WSW	14.9	31-Aug	100.0%
WSPD v (km/hr)			Smoky Heights	10.0	-	-	-	Aug-02 08:00	34.8	W	22.7	2-Aug	99.7%
WSPD v (km/hr)			Beaverlodge	8.0	-	-	-	38595.5	28.1	WSW	14.4	38569.0	100.0%
WSPD s (km/hr)			Henry Pirker	9.9	-	-	-	Aug-31 15:00	30.3	WSW	18.2	31-Aug	100.0%
WSPD s (km/hr)			Evergreen Park	7.2	-	-	-	Aug-31 13:00	24.3	W	15.3	31-Aug	100.0%
WSPD s (km/hr)			Smoky Heights	10.3	-	-	-	Aug-02 08:00	34.9	W	23.8	2-Aug	99.7%
WSPD s (km/hr)			Beaverlodge	8.0	-	-	-	Aug-31 13:00	28.1	WSW	16.0	1-Aug	100.0%
WDIR (Deg)			Henry Pirker	N	-	-	-	-	-	-	-	-	100.0%
WDIR (Deg)			Evergreen Park	N	-	-	-	-	-	-	-	-	100.0%
WDIR (Deg)			Smoky Heights	N	-	-	-	-	-	-	-	-	99.7%
WDIR (Deg)			Beaverlodge	N	-	-	-	-	-	-	-	-	100.0%

Note: ^a the draft 1-hr Alberta Ambient Air Quality Objective

* Wind Direction is the predominate direction for the Month

Continuous Network Equipment Summary

PASZA – Henry Pirker Station

General Station Issues

There were no general operational issues noted during the month.

Parameter	Make	Model	Notes
SO ₂	TECO	43	No operational problems observed.
NOx/NO/NO ₂	TECO	42C	No operational problems observed
O ₃	API	400	No operational problems observed
CO	TECO	48C	2 hours of data removed due to excessive baseline drift.
THC	TEI	51-CLT	145 hours of data removed due to a flame out situation with the analyzer.
TRS	TEI	42C	No operational problems observed
PM _{2.5}	R&P	1400AB	6 hours were removed due to excessive baseline drift.
RH	Met One	083D	No operational problems observed
AT	Met One	083D	No operational problems observed
SR	Met One	096-1	No operational problems observed
WS	Met One	010C	No operational problems observed
WD	Met One	020C	No operational problems observed

PASZA – Evergreen Park Station

General Station Issues

No general station issues were identified.

Parameter	Make	Model	Notes
SO ₂	API	100	2 hours of data removed due to excessive excessive baseline drift.
TRS	TEI	42C	No operational problems observed
PM _{2.5}	R&P	1400AB	7 hours were removed due to excessive baseline drift.
AT	Met One	083D	No operational problems observed
WS	Met One	010C	No operational problems observed
WD	Met One	020C	No operational problems observed

PASZA – Smoky Heights School Station

General Station Issues

Problems with the station air conditioner resulted in baseline adjustment for the SO₂, TRS and PM_{2.5} parameters. Two hours of data were removed from all parameters due to a power failure.

Parameter	Make	Model	Notes
SO ₂	API	100A	3 hours of data were removed due to excessive baseline drift.
TRS	TEI	42C	6 hours of data were removed due to excessive baseline drift.
PM _{2.5}	R&P	1400AB	32 hours of data were removed due to excessive baseline drift.
AT	Met One	083D	No operational problems observed
WS	Met One	010C	No operational problems observed
WD	Met One	020C	No operational problems observed

PASZA – Beaverlodge Station

General Station Issues

Problems with the station air conditioner resulted in various drift issues with most analyzers.

Parameter	Make	Model	Notes
SO ₂	TECO	43CTL	70 hours of data were removed due to signal loss from equipment
NOx/NO/NO ₂	TECO	42C	8 hours of data were removed due to signal loss from equipment
O ₃	API	400	15 hours of data were removed due to signal loss from equipment
PM _{2.5}	R&P	1400AB	15 hours of data were removed due to signal loss from equipment; 27 hours were removed due to excessive baseline drift
RH			
AT			No operational problems observed
SR			
WS	Blue Sky		No operational problems observed
WD	Blue Sky		No operational problems observed

PASZA - Henry Pirker Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Henry Pirker AQI Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

Air Quality Index (AQI)

Monitoring Dates: August 1, 2005 to September 1, 2005

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:	708
Number of 1-hr Fair Readings:	0
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day	Mountain Standard Time																							
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-Aug-05	3	2	2	1	2	3	3	6	6	8	11	12	A	13	13	14	14	14	12	12	10	9	10	12
2-Aug-05	11	10	10	9	8	8	7	6	5	7	7	A	8	10	9	8	6	9	8	7	7	6	6	4
3-Aug-05	4	4	5	4	2	3	4	4	6	8	A	11	11	13	14	15	15	15	15	13	10	8	6	5
4-Aug-05	4	5	4	3	3	3	5	7	6	A	10	11	11	13	12	12	13	13	13	10	6	5	6	6
5-Aug-05	5	6	6	9	10	5	7	9	A	12	13	13	13	13	13	13	12	11	10	8	9	7	7	6
6-Aug-05	5	5	5	3	4	4	4	A	6	8	11	12	11	10	9	10	9	9	7	9	9	13	10	8
7-Aug-05	9	9	7	6	4	4	A	5	8	8	9	10	11	12	12	13	12	12	12	9	6	5	5	6
8-Aug-05	10	13	10	9	7	A	3	4	6	9	10	12	12	12	13	14	13	13	12	11	11	12	8	8
9-Aug-05	8	7	7	8	A	7	8	9	11	13	13	14	15	15	15	14	12	11	11	9	8	7	6	3
10-Aug-05	3	3	3	A	2	3	5	8	5	6	11	13	14	15	17	17	17	17	15	12	7	8	8	9
11-Aug-05	7	6	A	5	5	4	6	7	7	9	11	13	14	15	17	17	17	17	15	12	7	8	8	9
12-Aug-05	5	A	9	8	8	4	4	6	7	9	10	11	13	15	15	16	17	17	16	15	11	7	12	10
13-Aug-05	A	5	4	4	2	3	3	5	6	8	12	16	15	17	17	18	18	17	15	16	17	15	15	A
14-Aug-05	13	11	11	11	11	10	9	8	10	11	11	11	9	9	10	10	9	7	6	8	7	7	A	9
15-Aug-05	9	9	9	9	8	5	5	4	5	7	7	8	8	8	10	8	9	8	9	8	7	6	7	8
16-Aug-05	8	7	6	8	8	A	5	4	5	6	6	6	7	8	8	7	7	7	7	7	4	3	3	4
17-Aug-05	5	4	5	4	A	2	2	3	6	9	9	11	12	12	13	13	12	A	A	2	5	8	10	5
18-Aug-05	2	2	2	3	2	A	5	5	6	8	11	14	16	18	20	20	20	18	16	13	8	7	9	10
19-Aug-05	9	8	6	4	A	3	3	4	9	12	11	14	16	15	16	17	17	18	17	13	9	13	15	11
20-Aug-05	11	10	5	A	6	7	7	7	5	10	12	15	18	19	21	19	15	14	14	11	19	12	8	6
21-Aug-05	9	13	A	13	11	8	9	9	7	14	17	17	16	17	17	17	16	13	14	12	12	14	14	14
22-Aug-05	14	A	13	10	9	6	3	4	6	7	11	12	12	A	A	12	11	11	11	5	4	4	3	8
23-Aug-05	8	8	5	5	3	A	4	5	4	8	10	12	12	11	12	13	12	9	10	8	4	3	2	2
24-Aug-05	2	2	2	2	2	A	5	5	3	5	8	12	15	16	17	17	18	18	18	13	11	10	8	6
25-Aug-05	6	7	7	5	A	5	6	16	11	8	11	14	16	17	18	17	17	16	18	12	12	20	12	6
26-Aug-05	6	6	7	A	5	7	13	11	10	9	9	14	17	18	18	18	17	16	16	15	8	8	9	6
27-Aug-05	6	5	A	6	4	5	7	8	7	7	10	13	20	23	23	24	21	18	16	12	10	12	15	17
28-Aug-05	12	A	8	7	8	7	10	9	13	18	23	21	20	19	20	20	20	20	19	15	18	18	17	13
29-Aug-05	A	11	9	7	6	5	5	5	4	4	4	7	6	5	6	7	7	7	6	5	4	2	2	A
30-Aug-05	2	2	1	1	1	1	3	4	7	4	5	10	13	12	12	12	12	13	12	10	9	5	A	8
31-Aug-05	12	13	13	13	12	9	7	6	8	12	14	15	15	15	17	18	17	16	14	7	9	A	10	9

PASZA - Henry Pirker Sulphur Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Station: Henry Pirker
 Station Owner: PASZA

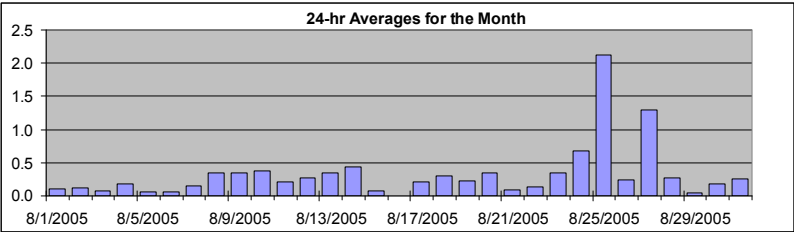
Monitoring Dates: August 1, 2005 to September 1, 2005

Objective Limit: Alberta Environment: 1-hr 172 ppb 24-hr 57 ppb

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	23.6 ppb	25-Aug	9:00	10:00
Maximum 24-hr Average:	2.1 ppb	25-Aug		

AIC Time:	34 hrs	Operational Time:	708 hrs					
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	2.9	0.9	0.3	0.2	0.1	0.0	0.0	0.3 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum					
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00	23:00	0:00	
1-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	2	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.6
2-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
3-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
4-Aug-05	0	0	0	0	0	0	0	0	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5	
5-Aug-05	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	
6-Aug-05	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
7-Aug-05	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.2	0.6	
8-Aug-05	0	0	0	0	0	0	A	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7	
9-Aug-05	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0.3	2.9		
10-Aug-05	0	0	0	A	0	0	0	0	0	1	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0.4	1.0		
11-Aug-05	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7		
12-Aug-05	0	A	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.0		
13-Aug-05	A	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	1.0		
14-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0	A	0	0.4	3.6		
15-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	C	C	A	A	0	0	0	0	0	0	0	0	0	0	0.1	0.3		
16-Aug-05	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0		
17-Aug-05	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5		
18-Aug-05	0	0	0	0	0	0	A	0	0	1	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0.3	0.7		
19-Aug-05	0	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.2	0.9		
20-Aug-05	0	0	0	A	0	0	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.3		
21-Aug-05	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3		
22-Aug-05	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3		
23-Aug-05	0	0	0	0	0	0	A	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.0		
24-Aug-05	0	0	0	0	0	0	A	1	0	1	1	2	1	2	1	1	1	1	1	1	0	1	1	0	0	1	0.7	2.2			
25-Aug-05	0	0	0	0	A	0	1	2	7	24	9	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	2.1	23.6		
26-Aug-05	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7		
27-Aug-05	0	0	A	0	0	0	1	3	1	4	4	4	3	1	0	1	0	2	1	1	1	1	1	1	1	1	1	1.3	3.9		
28-Aug-05	1	A	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.3	1.1		
29-Aug-05	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.2			
30-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.5		
31-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	0.4		
Hourly Avg	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	1.2	0.8	0.5	0.4	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2					
Hourly Max	0.7	0.4	0.5	0.5	0.4	0.5	0.7	2.7	7.4	23.6	9.3	3.5	2.7	1.2	2.9	3.6	0.8	2.0	1.0	1.1	0.7	2.9	1.0	0.8							

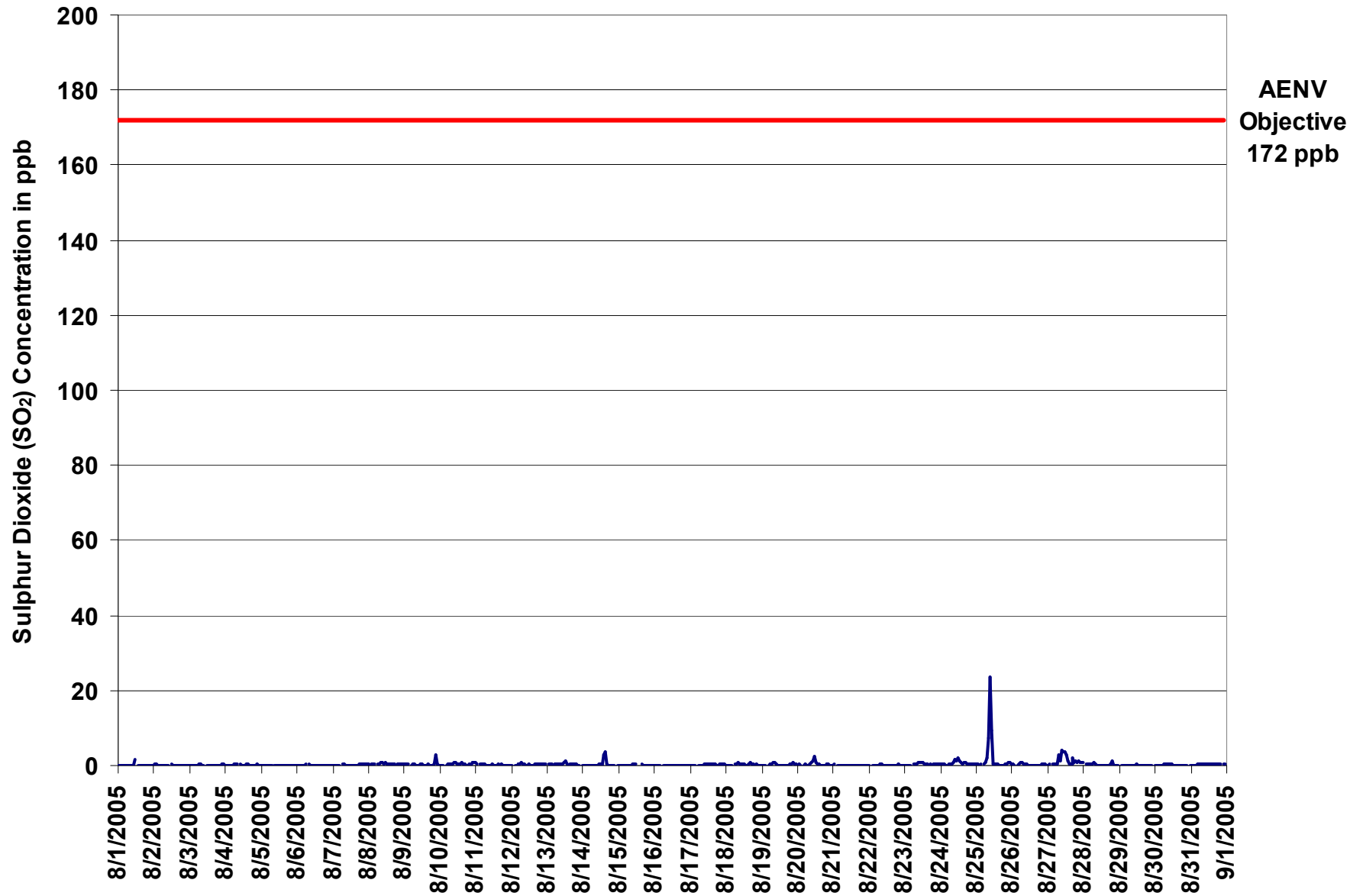


Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

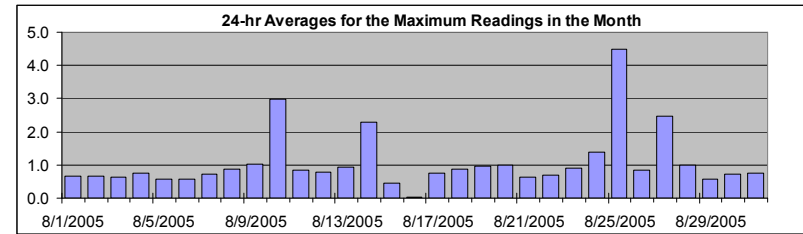
Sulphur Dioxide (SO₂)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	45.2	ppb	10-Aug	15:00 16:00
Maximum 24-hr Value:	4.5	ppb	25-Aug	

AIC Time:	34 hrs	Operational Time:	708 hrs					
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	5.7	1.7	0.9	0.7	0.6	0.3	0.0	1.1 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-Aug-05	0	0	0	0	0	0	0	1	1	1	1	4	A	1	0	0	0	1	0	1	1	0	1	1	0.7	4.1
2-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0	1	0.7	0.9
3-Aug-05	1	1	1	1	0	1	1	1	1	0	A	1	0	1	0	0	1	0	0	1	1	1	1	1	0.6	0.9
4-Aug-05	1	0	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.2
5-Aug-05	1	1	1	0	1	1	1	1	1	A	1	0	1	0	0	1	1	1	1	1	1	1	1	1	0.6	0.7
6-Aug-05	0	1	1	1	1	1	1	A	1	1	1	1	0	1	1	1	1	1	0	0	1	1	0	0	0.6	0.7
7-Aug-05	0	0	0	1	0	1	A	1	1	1	1	1	1	0	1	1	1	0	1	1	1	2	1	1	0.7	1.6
8-Aug-05	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.3
9-Aug-05	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	5	1	1	1.0	5.1
10-Aug-05	1	1	1	A	1	1	1	1	1	2	2	1	1	3	1	45	1	1	1	1	1	1	2	2	3.0	45.2
11-Aug-05	1	1	A	1	1	1	2	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0.8	1.8
12-Aug-05	1	A	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.5
13-Aug-05	A	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	A	0.9	1.6
14-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	18	1	1	1	1	1	1	A	1	2.3	18.7
15-Aug-05	0	0	0	0	1	1	1	1	1	1	1	1	C	C	A	A	1	0	0	0	0	0	0	0	0.4	0.9
16-Aug-05	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3
17-Aug-05	0	0	0	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1
18-Aug-05	1	1	1	1	1	A	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.6
19-Aug-05	1	0	0	1	A	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	5	1	1	1.0	4.7
20-Aug-05	1	1	1	A	1	1	1	1	1	3	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1.0	3.5
21-Aug-05	1	1	A	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0.6	1.2
22-Aug-05	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
23-Aug-05	1	1	0	1	1	A	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.6
24-Aug-05	1	1	1	1	1	A	1	1	1	2	2	2	3	2	1	1	1	1	1	2	1	1	1	2	1.4	3.4
25-Aug-05	1	1	1	1	A	1	1	4	16	38	28	1	1	1	1	1	1	1	1	1	2	1	1	4.5	37.6	
26-Aug-05	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	2	1	1	0.8	1.7
27-Aug-05	1	1	A	1	1	1	2	7	2	6	5	4	4	2	1	1	1	4	4	3	2	2	2	1	2.5	6.9
28-Aug-05	1	A	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	4	1	1	1	0	1.0	3.9
29-Aug-05	A	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	A	0.6	0.9	
30-Aug-05	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	A	1	0.7	1.1
31-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.8	1.1
Hourly Avg	0.6	0.6	0.6	0.7	0.6	0.7	0.9	1.2	1.4	2.2	2.0	1.2	1.0	0.8	1.3	2.8	0.7	0.8	0.8	0.8	0.8	1.1	0.8	0.7		
Hourly Max	1.4	1.2	1.0	1.1	1.0	1.0	1.8	6.9	16.0	37.6	27.8	4.4	3.8	2.5	18.7	45.2	1.3	4.3	4.2	3.9	2.4	5.1	2.3	1.9		

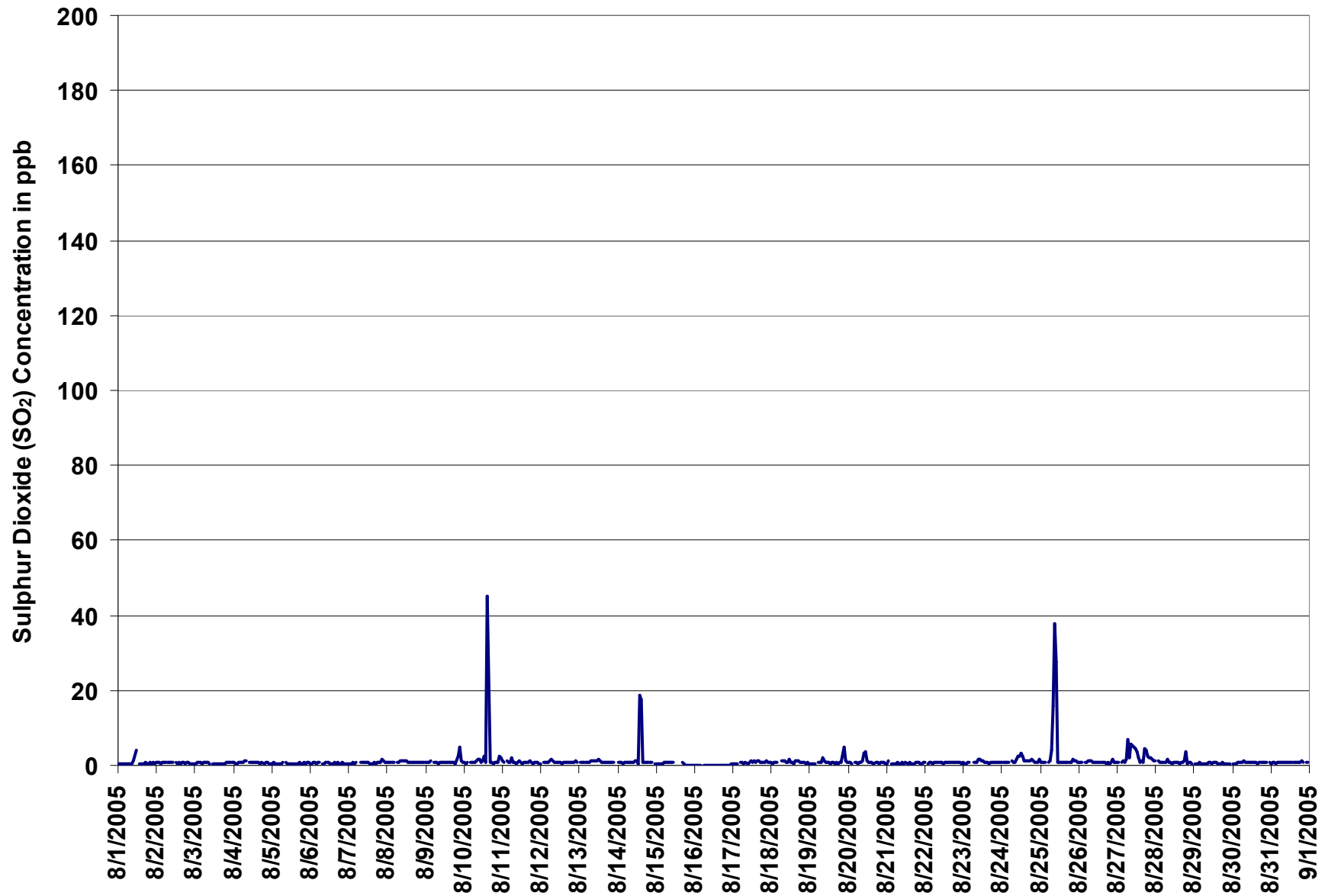
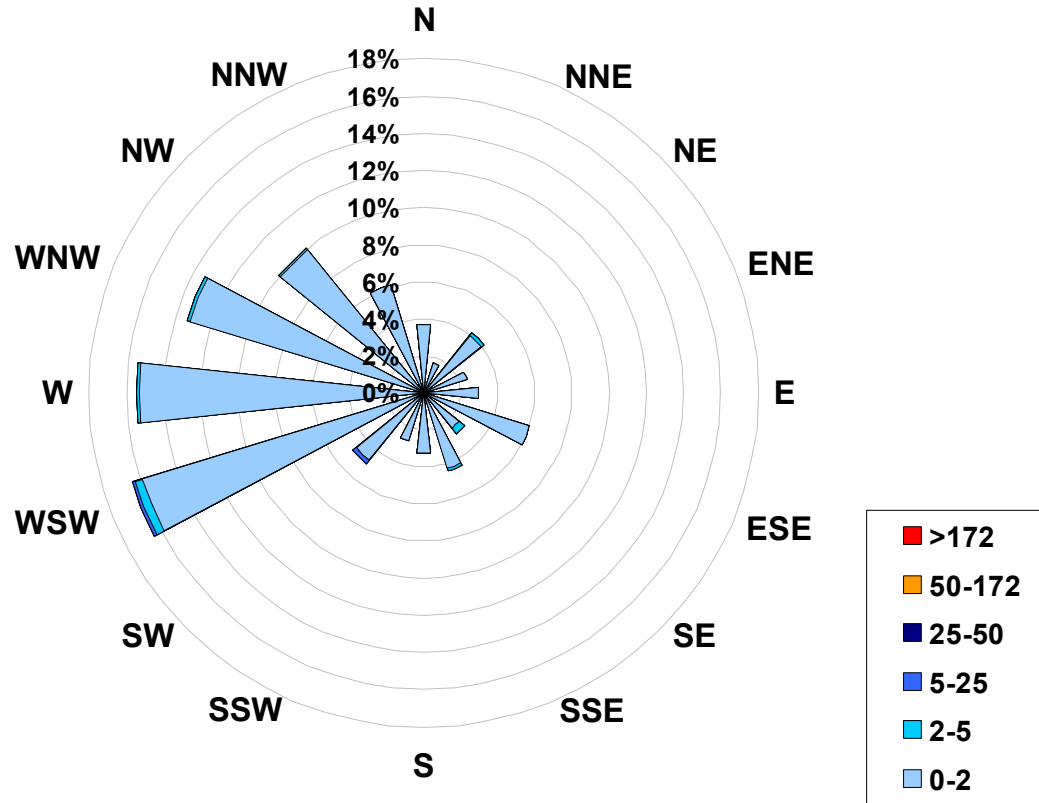


Figure 2. PASZA - Henry Pirker Sulphur Dioxide 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Henry Pirker Site for August 2005



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2	694	
2	to 5	11	
5	to 25	3	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values			708

PASZA - Henry Pirker Nitrogen Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Station: Henry Pirker
 Station Owner: PASZA

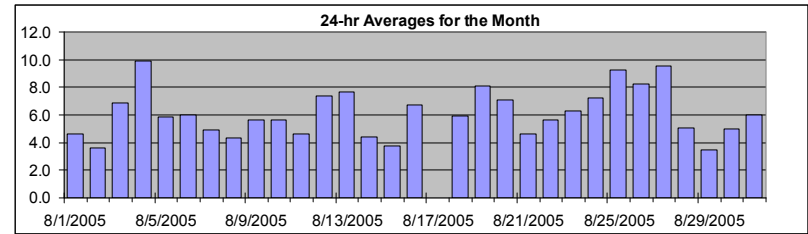
Monitoring Dates: August 1, 2005 to September 1, 2005

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:	30.1 ppb	25-Aug	20:00	21:00
Maximum 24-hr Average:	9.9 ppb	4-Aug		

AIC Time:	33 hrs	Operational Time:	702 hrs					
Calibration Time:	9 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	20.6	14.7	8.4	4.5	3.0	1.7	1.2	6.2 ppb



Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00			21:00	22:00
1-Aug-05	13	10	9	5	3	5	7	3	4	4	2	3	A	5	3	2	2	2	3	3	3	5	5	5	2	4.6	12.9
2-Aug-05	3	4	2	3	3	3	4	4	6	3	3	A	4	2	3	3	3	4	5	5	4	4	4	4	3.6	5.6	
3-Aug-05	5	5	4	4	10	11	11	9	5	3	A	4	3	2	3	2	2	3	8	11	16	20	14	6.9	20.3		
4-Aug-05	14	17	15	11	12	15	15	14	11	A	7	6	5	4	4	4	4	7	8	15	18	11	10	9.9	18.3		
5-Aug-05	9	7	6	3	2	11	7	4	A	4	3	3	3	3	2	3	4	6	7	9	8	11	9	11	5.8	11.3	
6-Aug-05	10	8	6	10	10	13	13	A	10	5	3	2	2	2	5	4	4	3	3	5	5	4	3	7	6.0	13.4	
7-Aug-05	4	8	8	7	10	16	A	7	2	2	1	1	1	1	1	2	2	2	5	8	11	7	6	4.9	16.4		
8-Aug-05	2	2	3	4	5	A	11	5	3	2	2	2	2	2	2	1	1	2	2	5	11	14	10	8	4.3	14.1	
9-Aug-05	6	5	4	4	A	8	11	6	4	4	5	3	3	3	2	3	7	7	4	7	7	8	9	8	5.6	11.0	
10-Aug-05	5	4	5	A	10	13	12	6	5	8	4	3	3	3	1	2	2	3	2	5	11	9	9	6	5.6	12.5	
11-Aug-05	7	5	A	5	5	10	6	5	4	2	2	2	2	2	2	3	2	2	2	3	3	7	10	10	5	4.6	10.3
12-Aug-05	5	A	5	4	4	17	18	7	4	3	3	5	4	2	1	1	1	1	2	5	11	19	24	24	7.4	24.4	
13-Aug-05	A	19	16	15	10	13	13	9	7	5	6	6	4	3	3	4	5	3	5	5	6	6	6	A	7.6	19.0	
14-Aug-05	6	6	5	4	3	5	6	6	6	5	3	4	7	3	2	3	3	4	5	4	5	2	A	3	4.4	6.8	
15-Aug-05	3	2	2	3	3	8	7	8	5	3	2	2	2	2	1	4	3	3	3	4	6	6	4	4	3.7	8.0	
16-Aug-05	4	4	5	3	3	A	12	12	9	5	4	5	4	4	5	7	8	7	8	6	14	14	9	5	6.7	14.3	
17-Aug-05	3	4	4	3	A	9	9	5	3	C	C	C	C	C	C	C	C	C	A	8	22	21	18	13	N	21.7	
18-Aug-05	7	7	8	11	10	A	11	9	7	5	4	3	3	3	3	4	3	3	3	6	10	9	5	3	5.9	11.3	
19-Aug-05	3	3	4	6	A	11	13	10	9	9	9	4	3	2	2	2	2	3	4	11	14	22	23	17	8.1	22.7	
20-Aug-05	16	13	10	A	8	12	8	9	7	4	4	4	2	2	2	3	2	3	2	7	19	14	7	5	7.1	19.3	
21-Aug-05	2	1	A	3	5	11	8	8	11	5	3	5	3	3	4	4	4	3	4	5	5	3	3	2	4.6	10.9	
22-Aug-05	2	A	3	4	4	10	12	11	8	5	3	2	2	2	2	3	4	3	3	10	12	11	10	4	5.7	11.7	
23-Aug-05	4	4	7	7	13	A	11	7	5	2	1	2	2	2	4	4	3	4	10	5	6	15	12	8	9	6.3	15.1
24-Aug-05	7	8	10	9	8	A	8	6	4	4	6	4	2	2	1	1	2	2	3	11	21	18	17	13	7.2	20.6	
25-Aug-05	11	12	14	10	A	11	9	8	10	5	3	3	3	3	2	1	1	2	2	12	30	28	20	12	9.3	30.1	
26-Aug-05	12	13	10	A	11	9	6	10	8	7	7	4	3	3	4	3	4	4	5	6	18	14	16	13	8.2	18.0	
27-Aug-05	14	16	A	18	13	15	16	11	7	7	6	8	12	10	4	3	4	6	7	11	12	9	7	4	9.6	18.4	
28-Aug-05	6	A	11	11	13	13	11	6	2	2	2	3	2	3	2	1	1	2	4	6	3	4	4	3	5.0	13.2	
29-Aug-05	A	4	2	2	3	3	4	5	3	4	4	3	3	3	3	3	2	2	4	3	5	7	8	A	3.5	7.7	
30-Aug-05	8	7	6	5	5	4	3	3	3	3	6	6	4	2	3	3	3	4	2	3	6	9	12	A	8	5.0	11.8
31-Aug-05	3	3	2	2	4	10	13	13	10	3	3	2	2	3	2	2	3	4	6	16	10	A	10	8	6.0	16.5	
Hourly Avg	6.6	7.2	6.5	6.2	7.0	10.3	9.9	7.5	6.1	4.4	3.9	3.5	3.2	2.9	2.6	2.8	3.1	3.5	3.9	6.8	10.9	11.4	10.2	8.0			
Hourly Max	15.6	19.0	16.3	18.4	13.4	16.7	18.3	13.7	10.8	9.4	9.1	7.6	12.1	9.7	4.5	6.9	7.6	9.6	7.5	16.5	30.1	27.7	24.4	23.7			

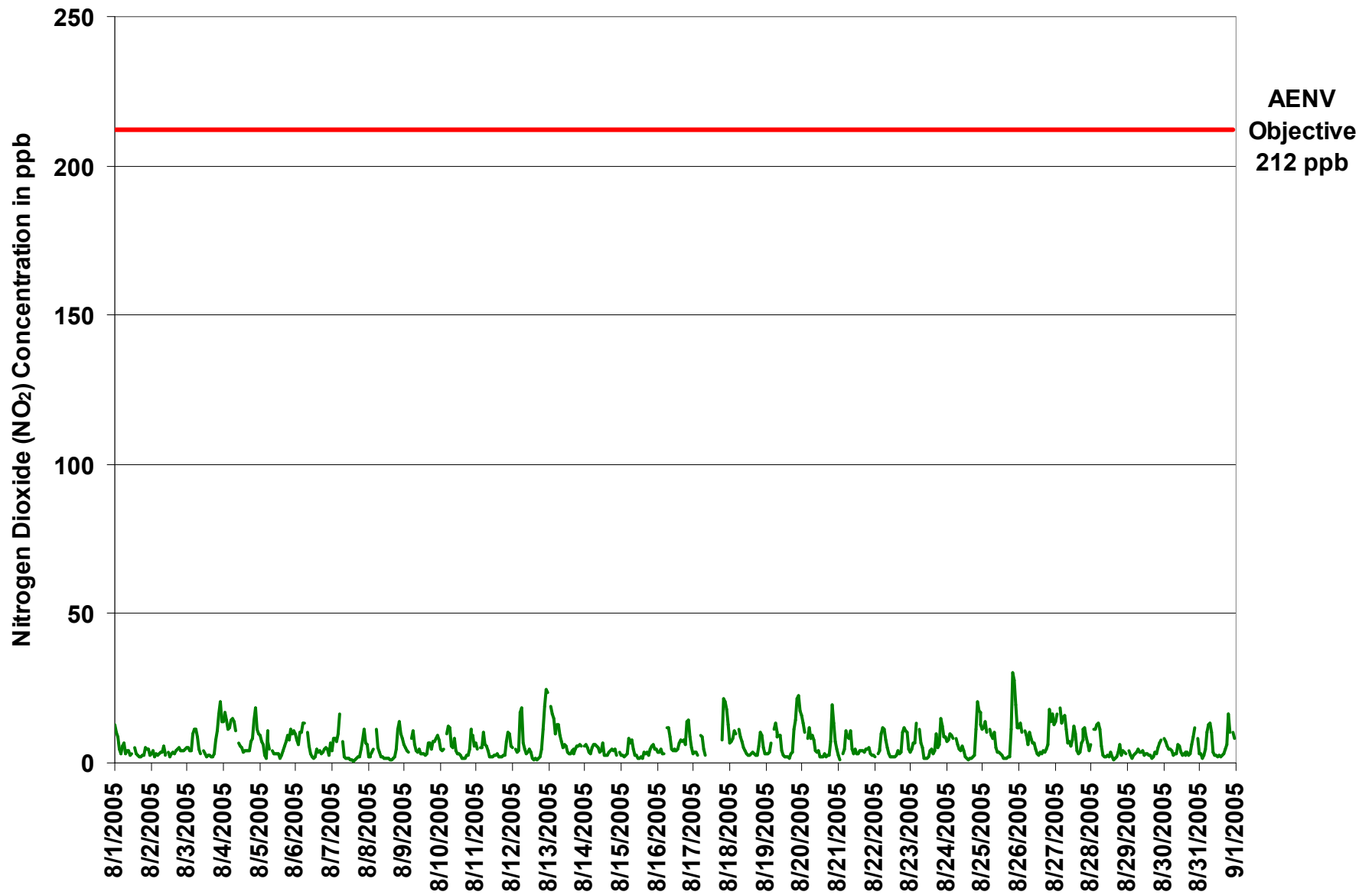


Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

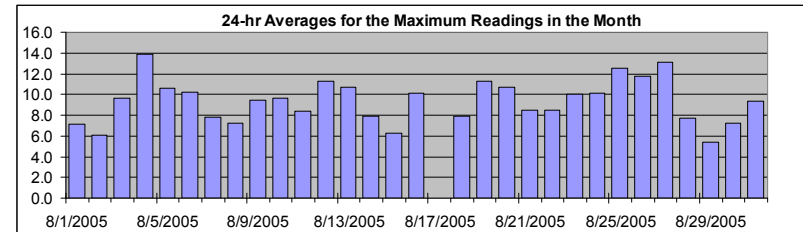
Nitrogen Dioxide (NO₂)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	36.1	ppb	12-Aug	22:00 23:00
Maximum 24-hr Value:	13.8	ppb	4-Aug	

AIC Time:	33 hrs	Operational Time:	702 hrs					
Calibration Time:	9 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	27.8	20.2	12.4	7.7	5.1	3.4	2.5	9.4 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 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-Aug-05	14	15	11	6	4	11	9	5	6	7	4	5	A	8	5	4	4	5	5	5	9	7	8	7	7.1	14.9
2-Aug-05	5	6	4	4	5	6	5	5	8	5	5	A	5	4	7	6	6	9	11	8	5	6	7	8	6.1	10.7
3-Aug-05	10	8	5	6	12	13	14	13	7	5	A	7	5	6	5	4	4	4	6	11	13	23	24	18	9.6	23.6
4-Aug-05	22	20	17	14	13	18	17	17	14	A	10	9	8	6	8	7	8	9	13	12	21	22	17	14	13.8	22.0
5-Aug-05	18	11	8	8	6	21	16	7	A	9	6	5	6	8	3	6	6	10	10	15	16	17	16	15	10.6	20.6
6-Aug-05	15	19	8	14	12	19	17	A	14	8	6	5	3	4	11	5	8	7	9	7	11	9	4	19	10.2	19.5
7-Aug-05	7	16	11	9	17	20	A	15	3	2	3	2	3	2	3	3	4	3	8	12	16	10	9	7.8	19.9	
8-Aug-05	7	4	5	6	10	A	18	8	5	3	4	3	4	4	3	2	2	4	5	9	17	17	14	11	7.2	18.4
9-Aug-05	9	8	5	5	A	10	14	12	8	8	10	7	8	8	7	6	19	12	7	11	10	10	13	11	9.4	18.8
10-Aug-05	9	5	7	A	13	14	14	11	12	12	7	6	5	24	3	7	5	6	4	7	18	12	13	8	9.7	23.9
11-Aug-05	10	6	A	8	9	15	25	9	9	4	4	4	5	4	6	7	4	4	5	5	13	15	14	8	8.4	25.4
12-Aug-05	7	A	8	9	8	18	21	15	7	5	5	6	6	6	3	4	3	3	5	8	18	30	36	30	11.3	36.1
13-Aug-05	A	23	19	17	12	16	16	14	10	7	9	9	7	6	9	9	8	7	8	10	8	9	8	A	10.7	22.5
14-Aug-05	12	15	7	6	5	10	10	10	11	9	7	8	11	5	5	4	8	6	6	7	9	4	A	6	7.9	14.8
15-Aug-05	4	4	3	5	6	11	10	13	9	5	6	3	3	4	3	6	5	6	4	10	9	9	6	7	6.2	12.7
16-Aug-05	6	5	7	4	5	A	15	16	12	9	7	8	7	6	8	13	13	12	11	9	19	18	12	11	10.1	19.5
17-Aug-05	5	5	5	4	A	11	10	8	5	C	C	C	C	C	C	C	C	C	A	12	25	24	21	18	N	25.2
18-Aug-05	8	10	12	13	11	A	15	10	9	7	5	4	3	4	5	6	5	4	4	9	13	13	8	5	7.9	14.8
19-Aug-05	4	4	6	13	A	14	15	13	11	14	11	6	5	4	6	4	5	6	7	20	18	27	26	21	11.3	26.6
20-Aug-05	20	18	13	A	12	14	12	10	5	5	5	3	5	4	5	4	4	5	19	26	18	18	18	6	10.7	25.7
21-Aug-05	5	1	A	4	9	21	15	12	14	14	6	7	6	8	10	7	7	7	11	10	9	5	4	5	8.5	20.6
22-Aug-05	3	A	5	6	6	15	13	13	9	8	5	4	4	4	4	6	9	7	6	14	16	13	15	8	8.5	16.2
23-Aug-05	6	8	11	13	16	A	13	10	8	3	6	3	7	9	10	6	10	14	10	11	18	15	10	11	10.0	18.3
24-Aug-05	9	11	11	12	10	A	11	8	6	5	7	6	4	4	2	3	4	5	6	19	28	24	24	17	10.1	27.9
25-Aug-05	13	15	16	13	A	14	11	13	13	6	5	5	4	4	3	2	2	4	4	28	34	32	24	18	12.5	34.0
26-Aug-05	14	15	15	A	12	11	10	11	10	9	9	8	7	5	7	6	8	6	7	10	28	21	23	17	11.7	28.1
27-Aug-05	17	20	A	23	16	19	20	15	10	9	7	10	16	19	6	6	7	9	10	18	19	11	11	6	13.2	22.8
28-Aug-05	8	A	12	12	15	17	14	9	4	3	5	5	3	7	5	4	3	4	6	11	6	9	6	7	7.7	16.8
29-Aug-05	A	8	3	3	4	5	5	7	4	6	6	4	4	6	4	6	4	4	5	4	7	8	8	A	5.4	8.5
30-Aug-05	11	8	6	5	5	5	4	4	6	8	7	6	5	5	5	6	6	4	6	9	14	17	A	14	7.3	16.8
31-Aug-05	4	5	3	5	7	14	17	17	15	7	4	4	3	5	5	4	6	8	11	23	15	A	15	15	9.3	23.1
Hourly Avg	9.7	10.5	8.8	8.8	9.7	13.9	13.5	11.0	9.0	7.0	6.1	5.7	5.6	6.5	5.5	5.4	6.2	6.5	7.1	11.5	15.7	15.4	14.3	12.1		
Hourly Max	21.9	22.5	18.9	22.8	16.9	20.6	25.4	17.4	15.3	14.4	10.8	10.3	15.8	23.9	10.7	12.9	18.8	14.2	12.8	28.1	34.0	32.1	36.1	30.2		

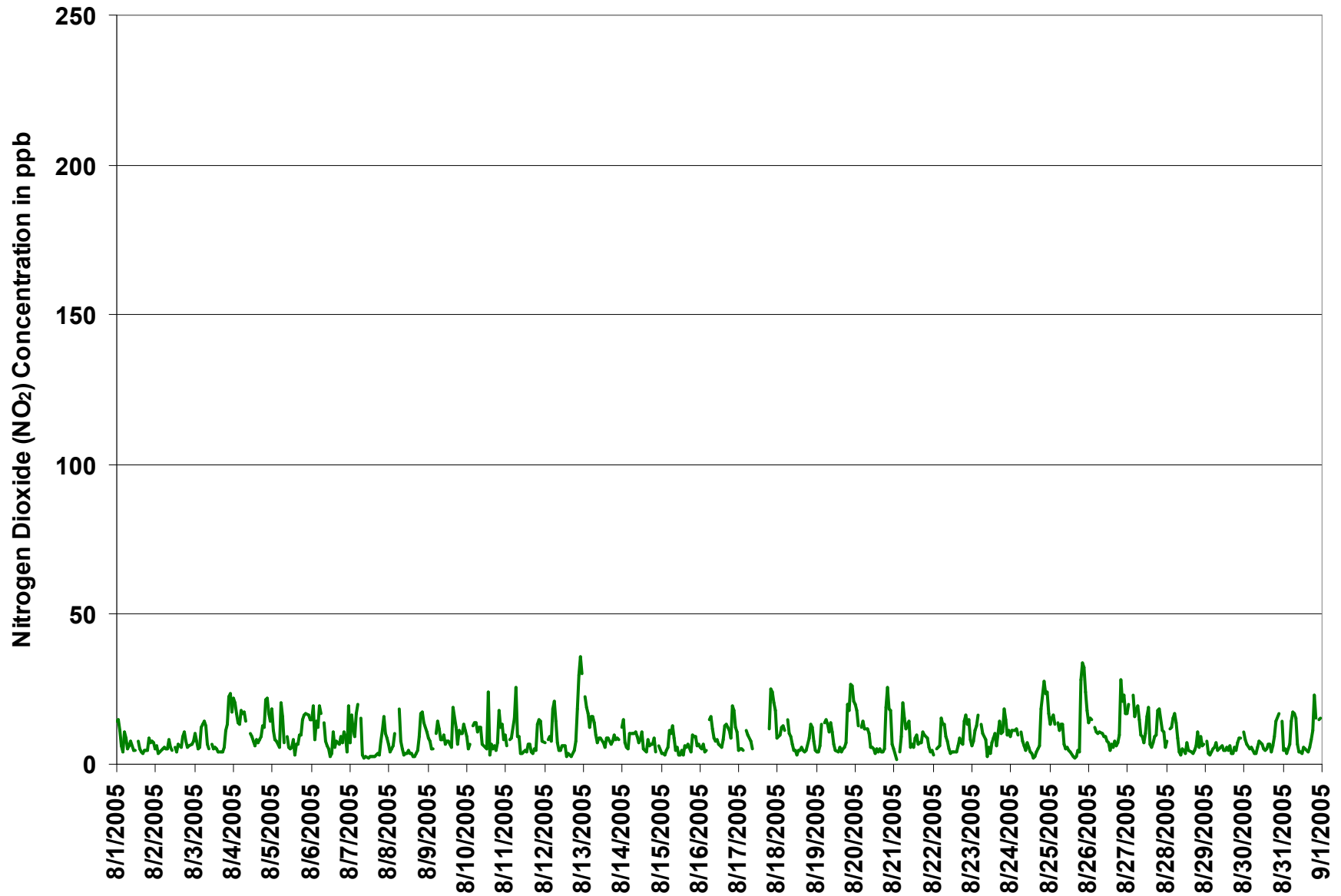
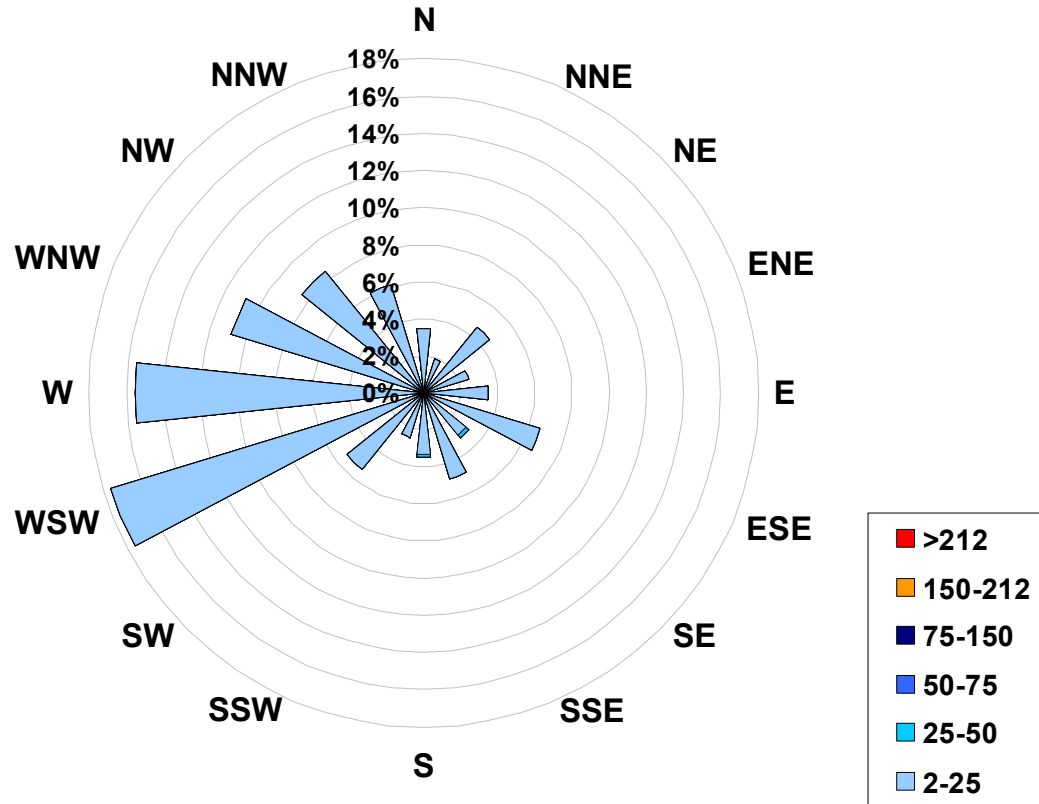


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Henry Pirker Site for August 2005



Calms: 0%

Frequency Distribution of NO ₂ in ppb			
Range		Frequency (hrs)	
2.0	< 25	687	
25	to 50	13	
50	to 75	2	
75	to 150	0	
150	to 212	0	
	> 212	0	
Total Non-Zero Values			702

PASZA - Henry Pirker Nitric Oxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Nitric Oxide (NO)

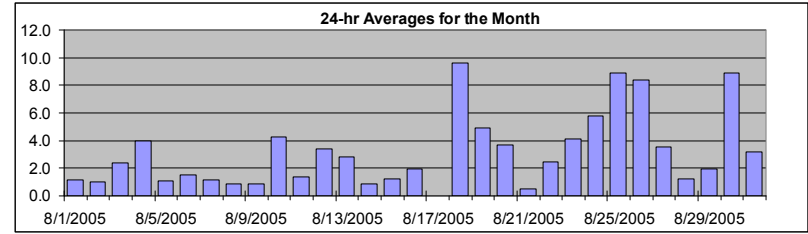
Monitoring Dates: August 1, 2005 to September 1, 2005

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

Summary

Maximum 1-hr Average:	72.2	ppb	26-Aug	6:00 7:00
Maximum 24-hr Average:	9.6	ppb	18-Aug	

AIC Time:	33 hrs	Operational Time:	702 hrs					
Calibration Time:	9 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	36.5	16.7	2.9	1.1	0.5	0.1	0.0	3.4 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	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00			21:00	22:00	23:00
1-Aug-05	1	2	3	0	0	3	5	2	2	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	0	0	1.2	5.4
2-Aug-05	0	0	0	0	0	1	1	2	3	2	2	A	1	1	1	2	1	1	2	2	1	1	0	0	0	1.0	2.7	
3-Aug-05	0	1	0	0	3	11	14	10	4	3	A	2	1	1	1	1	0	0	0	1	0	0	0	0	0	2.4	13.9	
4-Aug-05	1	1	1	1	2	9	22	21	15	A	3	2	2	1	1	1	1	1	1	1	2	1	0	0	4.0	22.1		
5-Aug-05	1	0	0	0	0	3	2	2	A	1	1	1	2	1	1	1	1	1	1	2	1	0	1	0	1.1	3.4		
6-Aug-05	1	0	0	1	0	5	7	A	5	3	1	1	1	1	1	2	1	1	1	1	1	1	0	0	1.5	7.4		
7-Aug-05	0	0	0	0	0	11	A	5	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	0	1.2	11.1		
8-Aug-05	0	0	0	0	0	A	4	2	2	1	1	1	1	1	1	0	1	1	0	0	1	2	1	0	0.8	3.9		
9-Aug-05	0	0	0	0	A	1	3	2	1	1	1	1	1	1	1	1	1	2	1	1	1	0	0	1	0.9	3.2		
10-Aug-05	1	0	0	A	4	17	34	9	6	10	2	1	1	7	0	1	0	1	1	1	1	0	0	0	4.3	33.9		
11-Aug-05	0	0	A	0	1	3	11	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.4	11.0		
12-Aug-05	1	A	0	1	0	23	28	4	3	2	2	3	2	1	0	0	0	0	0	0	0	0	0	2	4	3.4	28.1	
13-Aug-05	A	5	3	5	3	7	14	6	6	3	3	2	1	1	1	1	1	1	1	0	0	0	0	A	2.9	13.8		
14-Aug-05	0	1	0	0	0	0	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	A	1	0.8	2.1		
15-Aug-05	0	0	0	0	0	1	2	5	3	1	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1.2	4.6	
16-Aug-05	0	1	0	0	1	A	2	3	4	2	2	3	3	2	2	3	3	2	1	1	3	4	2	1	2.0	4.4		
17-Aug-05	1	1	1	1	A	5	8	4	2	C	C	C	C	C	C	C	C	C	A	9	17	37	26	20	N	37.5		
18-Aug-05	10	9	10	12	21	A	33	39	26	10	7	6	5	4	4	4	4	3	3	3	3	3	2	1	9.6	39.1		
19-Aug-05	1	1	1	1	A	1	13	18	22	16	10	2	1	1	0	0	0	0	1	0	3	17	3	4.9	22.1			
20-Aug-05	7	15	4	A	1	8	3	7	11	2	1	1	0	0	0	0	1	0	0	1	12	5	2	0	3.7	15.4		
21-Aug-05	0	0	A	0	0	0	0	1	2	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0.5	1.7		
22-Aug-05	0	A	0	0	0	2	8	11	6	5	3	2	2	1	2	2	2	1	1	2	3	1	3	0	2.4	10.9		
23-Aug-05	0	0	0	0	5	A	20	19	14	2	2	1	1	1	4	2	1	4	2	1	5	4	3	3	4.1	20.5		
24-Aug-05	3	6	4	6	6	A	42	23	15	8	7	3	1	1	0	1	1	0	1	2	1	1	1	1	5.8	41.9		
25-Aug-05	0	0	3	4	A	14	29	63	22	6	2	2	1	1	0	0	0	1	0	1	13	23	17	1	8.9	62.6		
26-Aug-05	1	3	2	A	5	24	72	37	19	9	5	2	1	1	1	1	1	1	1	1	1	1	2	0	8.4	72.2		
27-Aug-05	1	1	A	5	1	8	17	13	5	7	5	5	5	2	1	0	1	1	1	2	2	1	0	0	3.6	17.3		
28-Aug-05	0	A	0	0	0	4	14	3	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	1.3	14.3		
29-Aug-05	A	0	0	0	1	1	2	3	3	4	4	3	3	3	2	2	1	1	1	1	1	2	6	A	2.0	6.3		
30-Aug-05	4	7	5	4	8	20	28	42	38	18	8	5	2	2	2	2	2	2	1	1	1	1	A	1	8.9	41.8		
31-Aug-05	0	0	1	1	1	2	4	9	8	4	3	3	3	4	3	3	3	3	3	5	3	A	3	3	3.2	8.8		
Hourly Avg	1.2	2.0	1.4	1.6	2.3	7.1	14.9	12.2	8.4	4.3	2.8	2.0	1.6	1.5	1.2	1.2	1.2	1.2	1.0	1.4	2.6	3.2	3.2	1.5				
Hourly Max	9.7	15.4	9.6	12.3	21.2	24.1	72.2	62.6	38.4	18.4	9.8	5.6	4.7	6.5	4.1	4.1	3.5	4.3	3.4	9.1	17.3	37.5	25.6	20.4				

Station: Henry Pirker
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

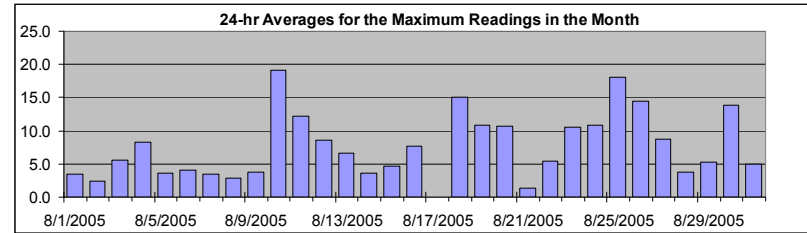
Nitric Oxide (NO)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	220.3	ppb	10-Aug	13:00 14:00
Maximum 24-hr Value:	19.1	ppb	10-Aug	

AIC Time:	33 hrs	Operational Time:	702 hrs					
Calibration Time:	9 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	60.4	32.2	7.8	3.4	1.5	0.5	0.3	8.0 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
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-Aug-05	3	11	7	1	1	16	11	4	4	2	2	1	A	2	3	2	2	2	2	1	2	1	1	0	3.5	15.8	
2-Aug-05	0	0	0	1	1	2	3	3	5	4	4	A	2	3	3	3	5	5	4	2	2	1	3	2.5	5.5		
3-Aug-05	3	1	1	1	9	21	21	19	7	5	A	13	3	8	3	2	2	1	1	1	1	1	0	5.5	20.9		
4-Aug-05	6	10	6	3	4	18	38	39	22	A	5	4	4	3	3	4	3	3	3	6	2	1	2	8.3	38.6		
5-Aug-05	4	2	1	1	1	17	7	3	A	3	3	3	3	4	2	3	3	3	4	4	1	7	1	3.6	16.5		
6-Aug-05	8	3	1	3	2	13	11	A	8	5	3	3	2	2	5	2	2	2	13	2	2	1	2	4.0	12.9		
7-Aug-05	1	2	1	1	2	29	A	12	2	2	2	2	2	1	1	2	1	3	1	2	5	3	2	1	3.4	29.2	
8-Aug-05	1	1	1	0	1	A	12	3	3	2	3	2	2	2	2	1	1	12	1	1	7	6	2	1	2.9	12.3	
9-Aug-05	1	2	1	1	A	2	9	6	12	6	6	3	5	4	2	2	9	8	2	2	1	1	1	1	3.8	12.3	
10-Aug-05	2	1	1	A	15	26	60	33	22	21	9	5	3	220	2	6	2	2	1	1	3	1	1	1	19.1	220.3	
11-Aug-05	1	1	A	1	2	11	219	5	4	2	2	2	2	2	3	3	2	2	5	2	2	2	3	2	12.2	218.6	
12-Aug-05	2	A	3	9	4	45	44	11	5	5	3	4	19	5	3	1	1	1	1	1	1	2	15	17	8.7	44.6	
13-Aug-05	A	13	5	8	6	15	31	17	9	4	4	4	3	3	6	3	4	2	3	2	1	1	3	A	6.6	30.8	
14-Aug-05	1	7	1	0	1	1	1	4	5	4	4	7	7	5	1	2	6	8	2	4	3	4	A	5	3.6	8.4	
15-Aug-05	1	1	3	4	1	6	13	25	13	3	5	2	2	3	2	5	2	3	2	2	3	8	3	3	4.7	25.4	
16-Aug-05	1	6	3	1	4	A	7	6	15	5	8	16	6	5	9	8	13	9	7	4	10	13	7	12	7.7	15.6	
17-Aug-05	3	4	2	1	A	11	11	9	6	C	C	C	C	C	C	C	C	C	A	10	37	56	37	34	N	55.7	
18-Aug-05	15	12	15	20	32	A	60	59	47	16	9	8	5	6	5	6	4	3	4	3	4	3	4	3	2	15.0	60.4
19-Aug-05	2	2	1	9	A	6	21	28	31	26	27	5	2	2	5	1	3	2	1	2	2	14	51	6	10.9	51.2	
20-Aug-05	19	21	11	A	5	21	13	19	22	4	2	2	1	1	1	1	1	1	2	7	43	32	14	1	10.7	43.4	
21-Aug-05	1	0	A	0	0	2	1	1	3	4	1	1	1	2	3	2	1	1	1	1	1	1	0	0	1.3	4.0	
22-Aug-05	0	A	0	1	1	4	15	16	8	7	11	3	4	4	3	4	4	3	2	5	8	3	15	1	5.4	16.3	
23-Aug-05	1	0	3	3	12	A	31	51	35	3	10	4	3	8	8	3	4	12	3	2	17	7	6	10	10.5	51.5	
24-Aug-05	5	11	10	11	17	A	60	31	43	11	11	4	2	2	1	1	2	2	1	2	9	4	3	2	10.8	60.1	
25-Aug-05	1	3	9	16	A	23	41	80	44	9	4	3	2	2	1	1	1	3	1	10	50	47	61	3	18.0	80.2	
26-Aug-05	6	8	6	A	18	42	96	49	33	14	11	6	3	3	3	3	3	1	1	1	5	2	16	1	14.5	95.7	
27-Aug-05	4	3	A	10	5	22	26	24	12	9	7	5	7	14	1	1	1	3	2	13	20	4	4	0	8.7	25.9	
28-Aug-05	1	A	1	0	2	25	29	6	1	1	1	2	2	2	1	1	1	1	2	1	0	3	1	0	3.7	29.0	
29-Aug-05	A	1	3	0	4	10	8	9	6	9	10	8	5	8	4	5	3	2	2	2	1	3	11	A	5.3	11.4	
30-Aug-05	7	10	7	7	12	36	39	62	47	32	15	10	4	3	3	4	4	4	2	2	2	1	A	1	13.8	62.4	
31-Aug-05	1	1	1	1	2	4	8	16	13	6	5	5	4	6	6	5	5	4	4	8	5	A	3	3	5.0	15.7	
Hourly Avg	3.5	4.9	3.7	4.0	6.0	16.4	31.5	21.8	16.2	7.8	6.5	4.9	3.9	11.1	3.2	2.9	3.3	3.7	2.7	3.5	8.2	7.6	9.5	4.1			
Hourly Max	18.6	20.9	15.4	19.9	31.6	44.6	218.6	80.2	46.9	32.2	27.0	15.6	19.0	220.3	9.3	8.3	12.5	12.3	12.9	13.3	49.6	55.7	61.0	33.5			

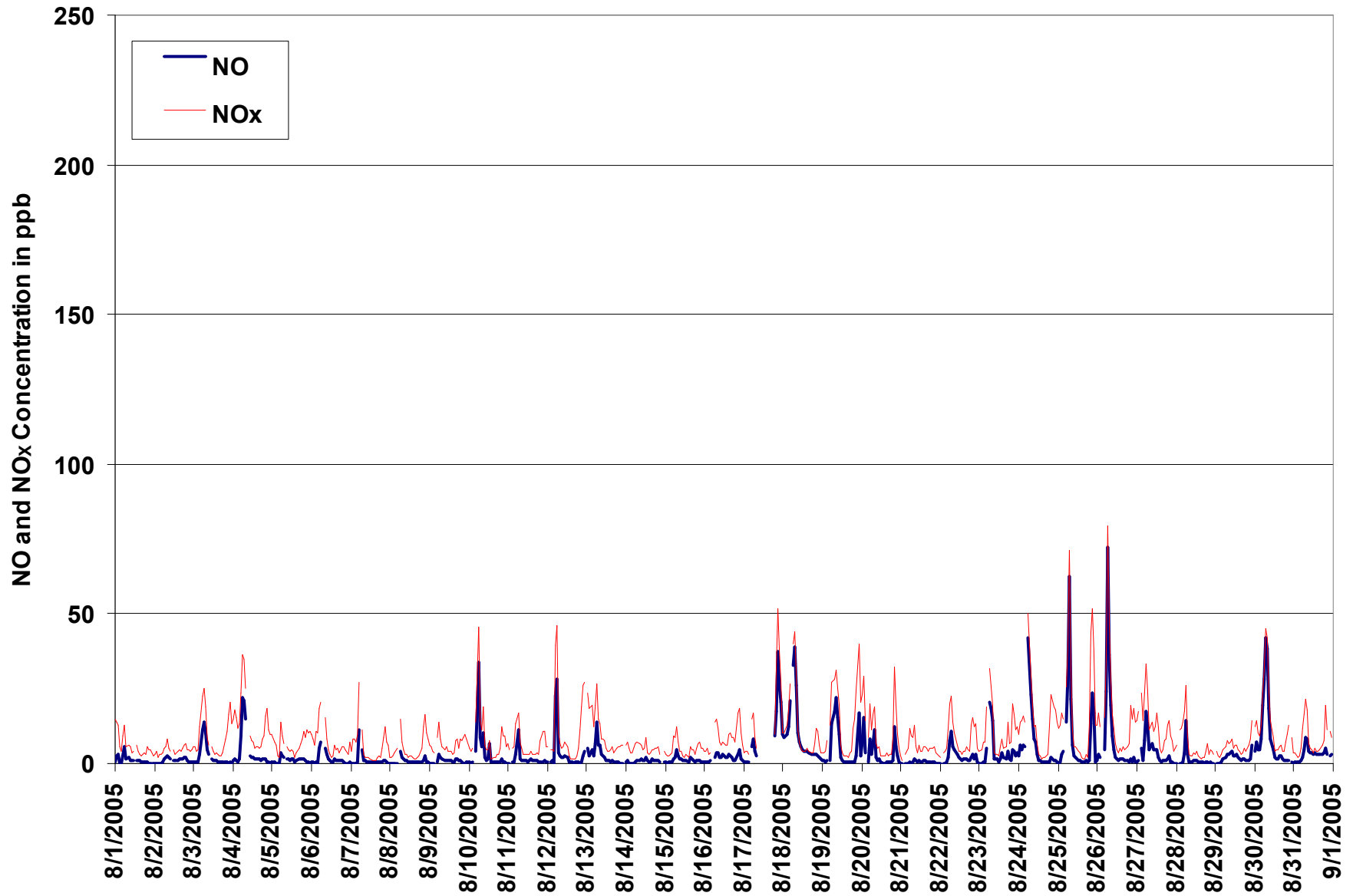


Figure 5. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

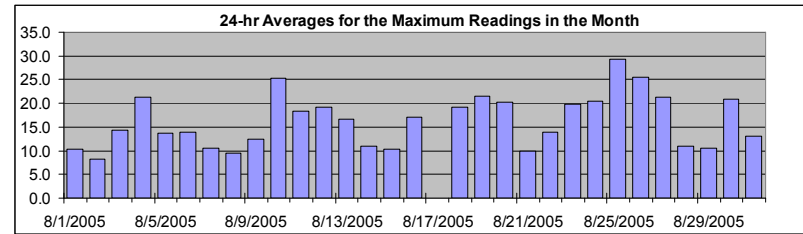
HOURLY MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	207.4	ppb	11-Aug	6:00 7:00
Maximum 24-hr Value:	29.4	ppb	25-Aug	



AIC Time:	33 hrs	Operational Time:	702 hrs					
Calibration Time:	9 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	72.8	43.6	19.8	11.2	7.4	4.5	3.4	16.5 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 Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Aug-05	18	21	19	8	6	27	20	10	10	10	6	6	A	9	7	6	5	6	7	5	10	7	8	7	10.3	27.2
2-Aug-05	5	7	4	5	6	7	7	8	13	9	8	A	7	6	9	9	8	14	16	12	7	7	7	10	8.2	15.9
3-Aug-05	13	9	6	6	21	33	34	32	14	11	A	12	8	14	7	5	5	5	6	12	13	24	25	17	14.4	34.1
4-Aug-05	26	28	23	16	15	36	55	56	36	A	15	12	11	9	11	9	12	13	15	14	27	22	17	15	21.4	55.7
5-Aug-05	22	13	8	8	6	37	23	10	A	12	9	7	9	12	5	9	9	12	15	19	20	18	21	16	13.8	36.9
6-Aug-05	22	21	8	16	13	31	27	A	22	13	9	8	4	5	16	7	10	8	22	8	13	10	4	20	13.8	31.1
7-Aug-05	8	16	11	9	18	45	A	27	4	3	5	3	4	4	3	4	4	6	3	9	14	17	12	10	10.5	45.0
8-Aug-05	7	4	5	6	10	A	30	10	7	5	6	5	6	6	5	3	4	14	6	10	24	21	14	12	9.6	29.9
9-Aug-05	10	9	6	5	A	12	22	17	19	13	15	8	13	12	8	7	28	17	8	13	11	10	14	12	12.5	27.8
10-Aug-05	10	5	7	A	28	38	73	44	34	33	14	11	7	182	4	5	6	9	6	8	21	13	15	8	25.3	181.9
11-Aug-05	10	6	A	8	11	26	207	13	13	5	5	6	6	5	10	10	6	6	10	7	14	15	15	9	18.3	207.4
12-Aug-05	9	A	11	18	10	61	64	25	12	9	7	9	23	11	4	5	4	3	5	8	18	30	47	47	19.1	64.1
13-Aug-05	A	33	23	24	18	29	46	30	18	11	13	12	9	8	13	11	11	8	10	10	8	9	10	A	16.6	45.9
14-Aug-05	13	22	8	6	6	11	11	14	15	12	9	15	16	9	5	6	14	13	8	10	11	8	A	11	10.9	21.9
15-Aug-05	4	4	7	7	6	16	23	37	18	7	10	5	5	7	5	10	8	9	5	12	16	9	8	8	10.3	37.1
16-Aug-05	6	11	8	5	7	A	21	22	27	13	15	24	12	10	17	21	24	20	18	12	28	31	19	22	17.1	30.9
17-Aug-05	6	9	6	5	A	22	21	16	10	C	C	C	C	C	C	C	C	C	A	14	56	68	51	43	N	68.2
18-Aug-05	16	15	23	24	36	A	69	65	52	19	10	9	5	8	7	9	8	6	6	10	15	15	9	5	19.2	68.9
19-Aug-05	5	5	7	22	A	20	36	38	42	40	31	11	7	6	11	6	8	7	9	22	20	39	74	28	21.5	73.8
20-Aug-05	32	36	24	A	18	32	22	30	32	10	8	8	4	6	5	6	6	5	7	26	62	48	32	8	20.2	61.5
21-Aug-05	5	2	A	4	10	23	16	13	17	19	7	8	7	11	13	9	8	8	12	11	9	6	5	5	9.9	22.7
22-Aug-05	3	A	5	7	8	19	29	30	17	14	16	7	9	7	7	9	14	10	8	19	23	16	30	10	13.8	30.2
23-Aug-05	6	9	12	16	28	A	43	61	43	5	16	6	10	17	18	9	14	27	14	12	32	21	16	21	19.9	61.1
24-Aug-05	14	21	19	20	25	A	69	38	50	15	19	10	6	5	3	3	6	7	7	20	37	28	28	19	20.4	68.9
25-Aug-05	14	18	25	30	A	33	50	89	57	16	9	9	7	6	3	3	3	7	5	38	81	73	78	21	29.4	89.2
26-Aug-05	20	22	20	A	30	51	100	60	43	22	21	14	11	8	9	9	10	7	9	10	34	23	34	18	25.5	100.4
27-Aug-05	20	22	A	30	20	38	45	39	22	18	13	16	22	33	8	7	9	11	11	30	39	15	14	6	21.4	44.6
28-Aug-05	8	A	12	13	17	41	41	15	5	5	6	7	5	9	6	5	4	5	7	11	6	10	7	7	11.0	40.9
29-Aug-05	A	8	7	3	7	15	14	16	11	15	16	10	9	14	9	11	6	5	8	6	8	11	19	A	10.5	19.0
30-Aug-05	18	18	12	12	18	40	42	66	50	40	22	16	8	8	9	11	11	8	8	11	16	19	A	15	20.9	65.6
31-Aug-05	5	5	4	6	8	17	25	32	27	12	7	8	7	10	10	7	8	11	14	29	17	A	16	17	13.1	32.0
Hourly Avg	12.3	14.3	11.7	12.1	15.1	29.3	42.7	32.1	24.7	14.4	12.0	9.8	9.0	15.2	8.3	7.8	9.1	9.6	9.4	14.2	22.8	21.7	22.4	15.5		
Hourly Max	32.2	36.1	24.8	30.5	36.3	61.2	207.4	89.2	56.9	40.5	31.0	23.7	23.1	181.9	18.3	20.8	27.8	26.5	21.5	38.3	80.5	72.8	77.8	46.6		

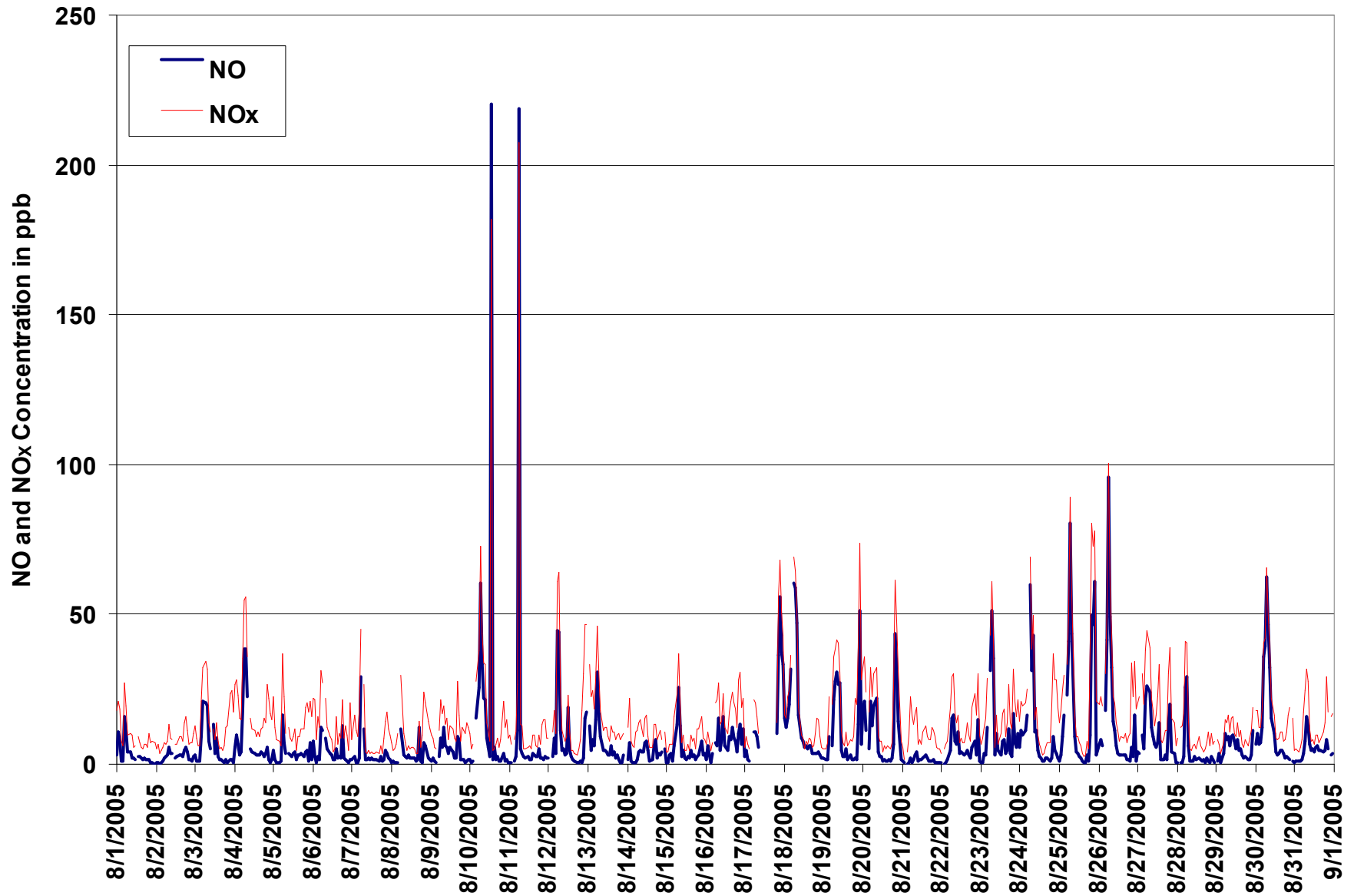


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Maximum Value Monthly Trend

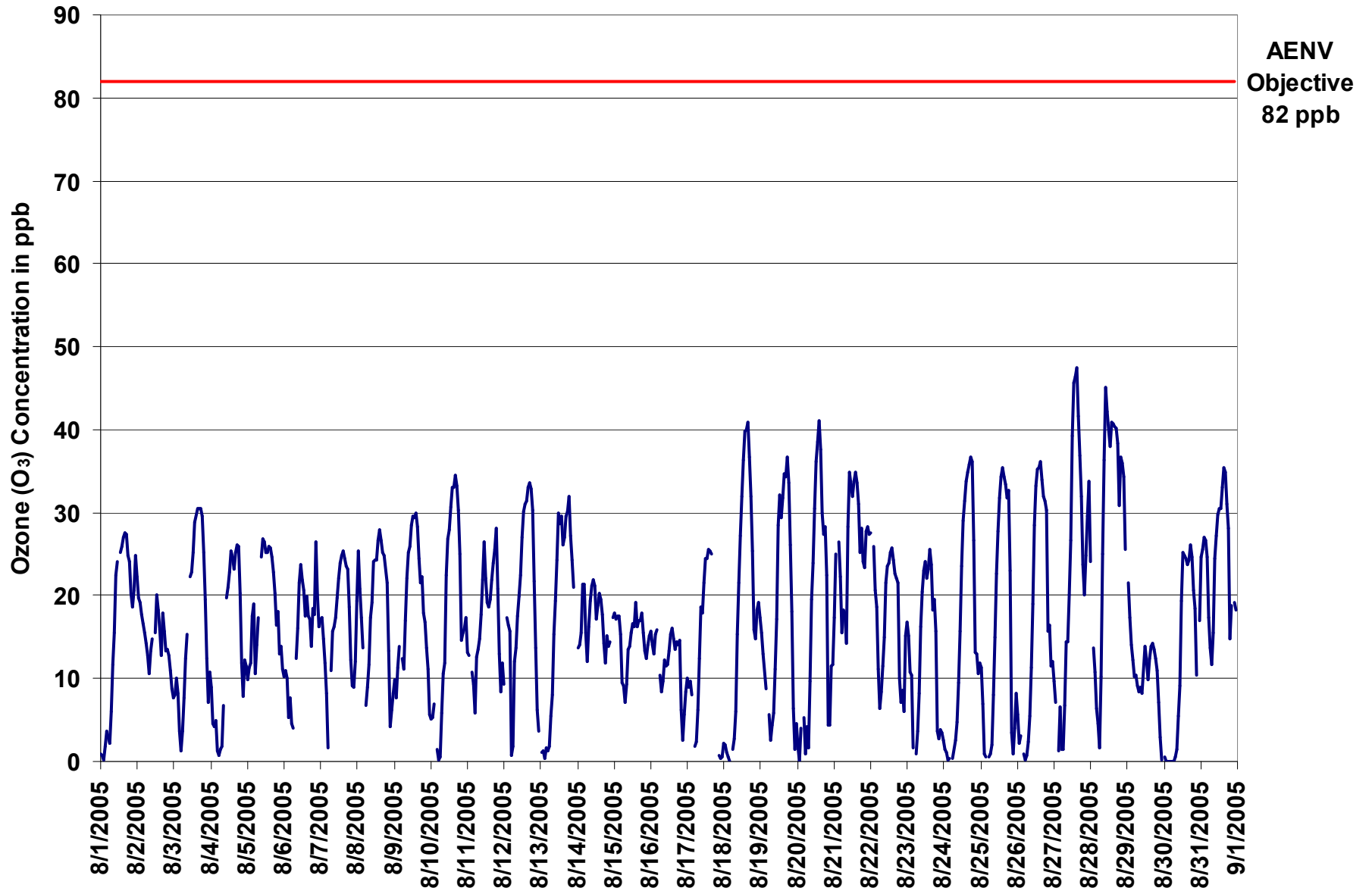


Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

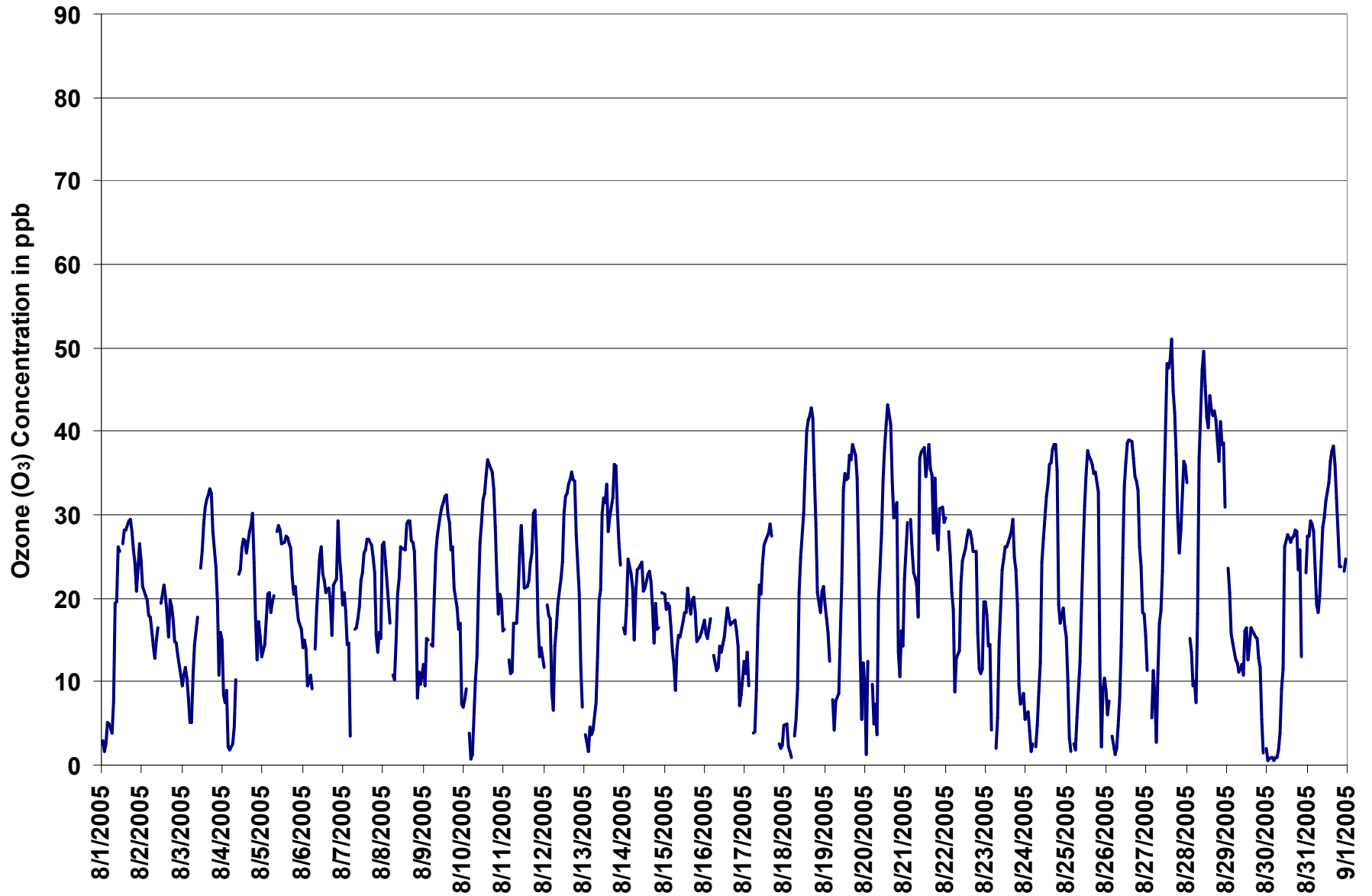
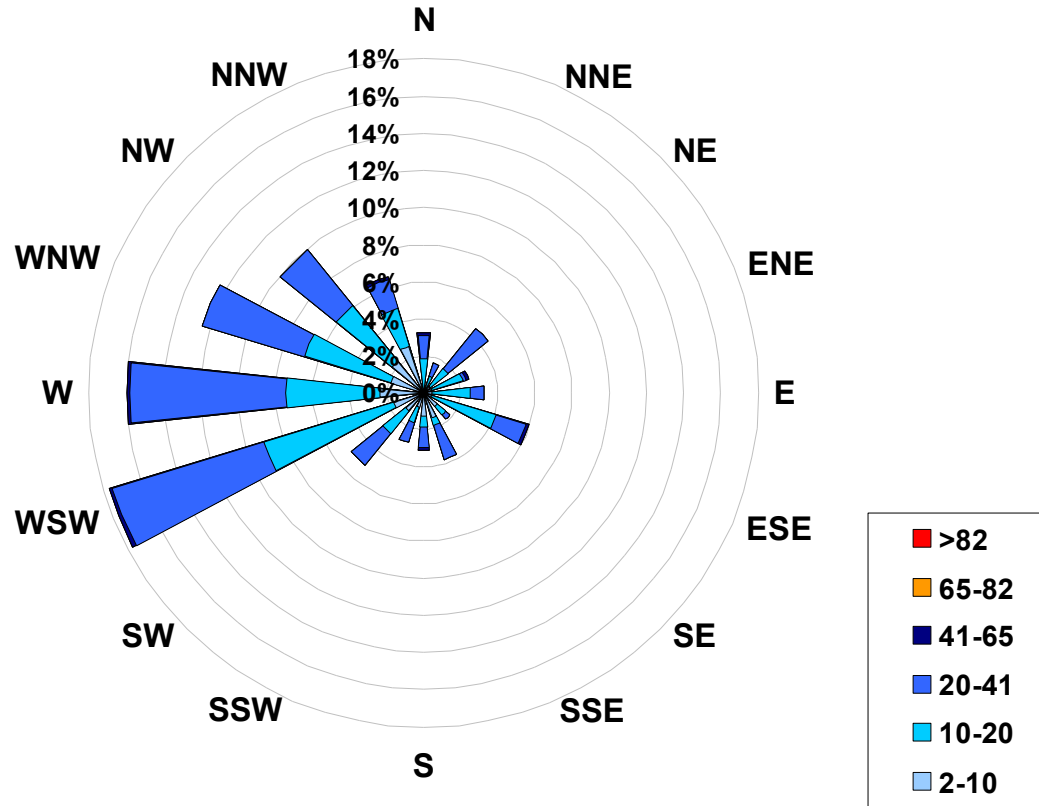


Figure 8. PASZA - Henry Pirker Ozone 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Henry Pirker Site for August 2005



Calms: 0%

Frequency Distribution of O ₃ in ppb			
Range		Frequency (hrs)	
2.0	< 10	182	
10	to 20	248	
20	to 41	271	
41	to 65	7	
65	to 82	0	
	> 82	0	
Total Non-Zero Values			708

PASZA - Henry Pirker Ozone Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Station: Henry Pirker
 Station Owner: PASZA

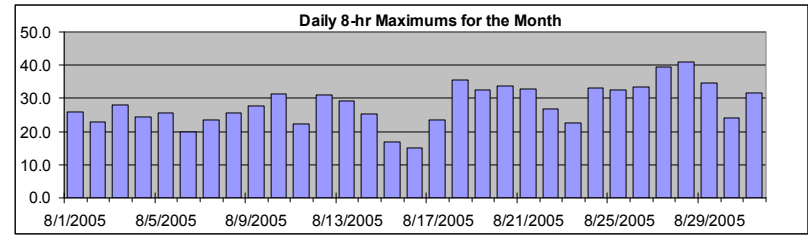
Monitoring Dates: August 1, 2005 to September 1, 2005

Objective Limit: Alberta Environment: 8-hr 65 ppb

Summary

Number of 8-hr Exceedances:	0		
Maximum 8-hr Average:	41.0 ppb	28-Aug	17:00 18:00

Percentile	99	95	75	50	25	5	1
	38.2	31.8	22.8	16.5	11.4	3.3	1.0



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	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-Aug-05	9	8	6	4	3	3	3	2	4	6	8	11	12	15	19	22	24	26	26	26	25	24	24	24	26.0
2-Aug-05	23	22	21	20	20	20	19	17	16	15	14	14	14	14	15	15	16	16	17	16	16	15	14	13	22.9
3-Aug-05	13	11	11	10	9	7	6	6	7	8	7	9	12	16	19	22	25	27	27	28	27	26	23	21	27.9
4-Aug-05	18	15	12	9	7	5	5	4	3	3	5	8	11	14	17	20	23	23	24	24	23	21	19	18	24.3
5-Aug-05	16	14	12	12	13	13	13	14	15	16	19	20	21	23	25	26	26	25	25	23	22	21	19	18	25.7
6-Aug-05	16	14	13	12	10	9	8	8	8	9	10	13	15	17	19	19	20	20	19	18	18	19	19	18	20.0
7-Aug-05	18	18	19	18	16	13	12	12	11	11	12	13	15	18	19	21	22	23	23	23	22	20	18	17	23.4
8-Aug-05	16	16	16	16	16	17	16	16	15	14	14	15	16	17	20	22	24	25	25	25	24	21	19	16	25.5
9-Aug-05	14	12	10	9	9	10	11	12	14	16	18	20	21	24	26	27	28	27	27	25	24	22	20	17	27.7
10-Aug-05	14	12	10	9	7	5	4	4	4	5	8	10	13	17	21	25	28	30	31	31	29	27	25	23	31.2
11-Aug-05	21	18	16	14	14	12	12	11	11	12	13	15	17	19	19	20	21	22	22	22	22	21	20	19	22.4
12-Aug-05	18	17	16	14	13	11	10	10	11	12	12	13	14	18	22	24	27	29	30	31	31	28	25	22	31.2
13-Aug-05	20	16	11	7	4	2	2	2	3	4	7	10	13	17	20	23	25	27	28	29	29	28	27	27	29.1
14-Aug-05	25	23	21	20	19	17	16	16	17	18	19	19	18	18	19	20	20	19	18	17	16	16	15	15	25.4
15-Aug-05	15	15	16	17	17	16	15	14	13	12	12	12	12	13	14	15	16	16	17	17	17	16	15	15	17.0
16-Aug-05	15	15	14	14	14	15	14	13	12	12	12	11	11	12	12	13	14	14	14	15	14	12	11	10	15.1
17-Aug-05	10	9	8	7	8	8	7	7	7	8	10	12	13	16	19	21	23	23	N	N	N	N	N	N	23.5
18-Aug-05	N	N	N	1	1	1	1	1	2	4	7	11	15	18	23	27	32	34	36	35	33	31	28	25	35.6
19-Aug-05	22	20	17	15	15	14	12	10	8	7	8	11	13	16	20	24	27	31	33	32	31	28	24	20	32.6
20-Aug-05	16	12	8	5	3	3	3	3	4	6	9	12	16	20	25	30	32	33	34	33	29	24	21	17	33.7
21-Aug-05	16	16	14	14	17	19	20	20	20	20	22	23	24	27	29	31	33	32	31	30	29	28	28	27	32.7
22-Aug-05	26	27	26	26	25	23	20	17	15	15	14	15	15	17	19	21	23	24	24	22	20	18	15	14	26.7
23-Aug-05	13	13	11	11	11	11	10	8	7	7	9	11	14	15	18	20	22	23	22	22	19	17	14	11	22.6
24-Aug-05	9	7	4	2	2	2	1	1	2	3	5	8	12	15	19	23	27	30	33	33	31	29	26	23	33.0
25-Aug-05	20	16	12	9	8	6	5	3	3	4	7	11	14	18	22	26	29	31	33	32	29	24	20	17	32.7
26-Aug-05	14	10	6	4	4	3	3	2	2	3	6	9	13	17	21	26	29	32	33	33	31	29	26	23	33.4
27-Aug-05	20	17	15	11	9	7	6	5	6	7	8	12	16	21	27	32	35	38	39	39	37	34	32	30	39.5
28-Aug-05	28	27	24	22	20	18	14	10	10	14	17	21	26	30	35	39	40	41	40	39	38	38	37	35	41.0
29-Aug-05	35	32	29	27	23	19	16	14	13	11	10	10	10	10	10	11	12	12	13	12	12	11	9	9	34.6
30-Aug-05	7	5	3	2	1	0	0	0	0	1	2	4	8	11	14	17	20	22	24	24	23	22	21	20	24.2
31-Aug-05	20	20	20	21	22	23	22	21	20	20	20	21	21	23	25	28	31	32	32	30	28	28	26	24	31.7

Hourly Max	34.6	31.9	28.9	26.5	25.2	23.3	22.1	21.4	20.3	20.4	22.2	23.1	25.6	29.8	34.7	38.5	40.5	41.0	40.1	39.1	38.3	38.0	37.2	35.3
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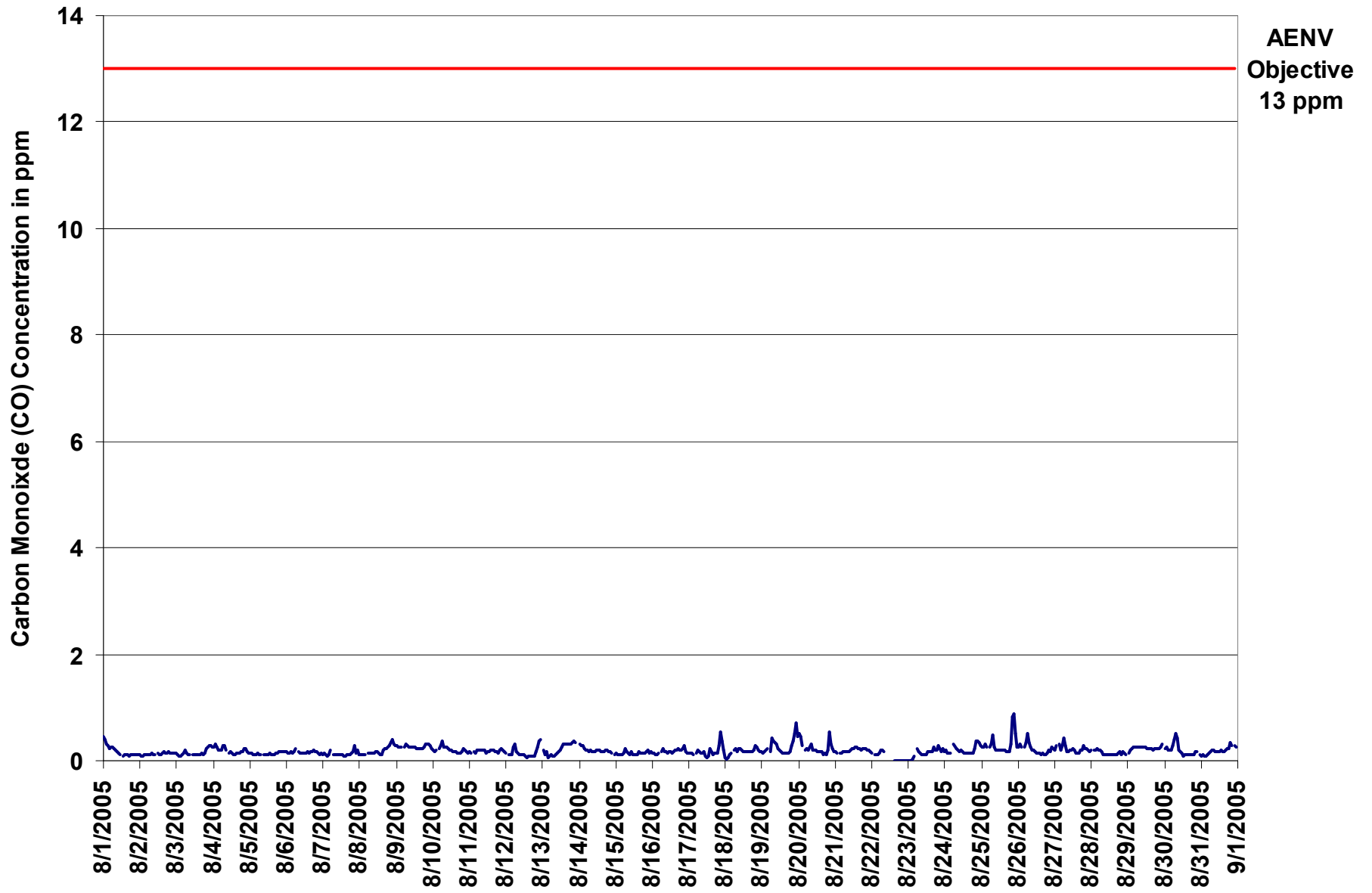


Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend

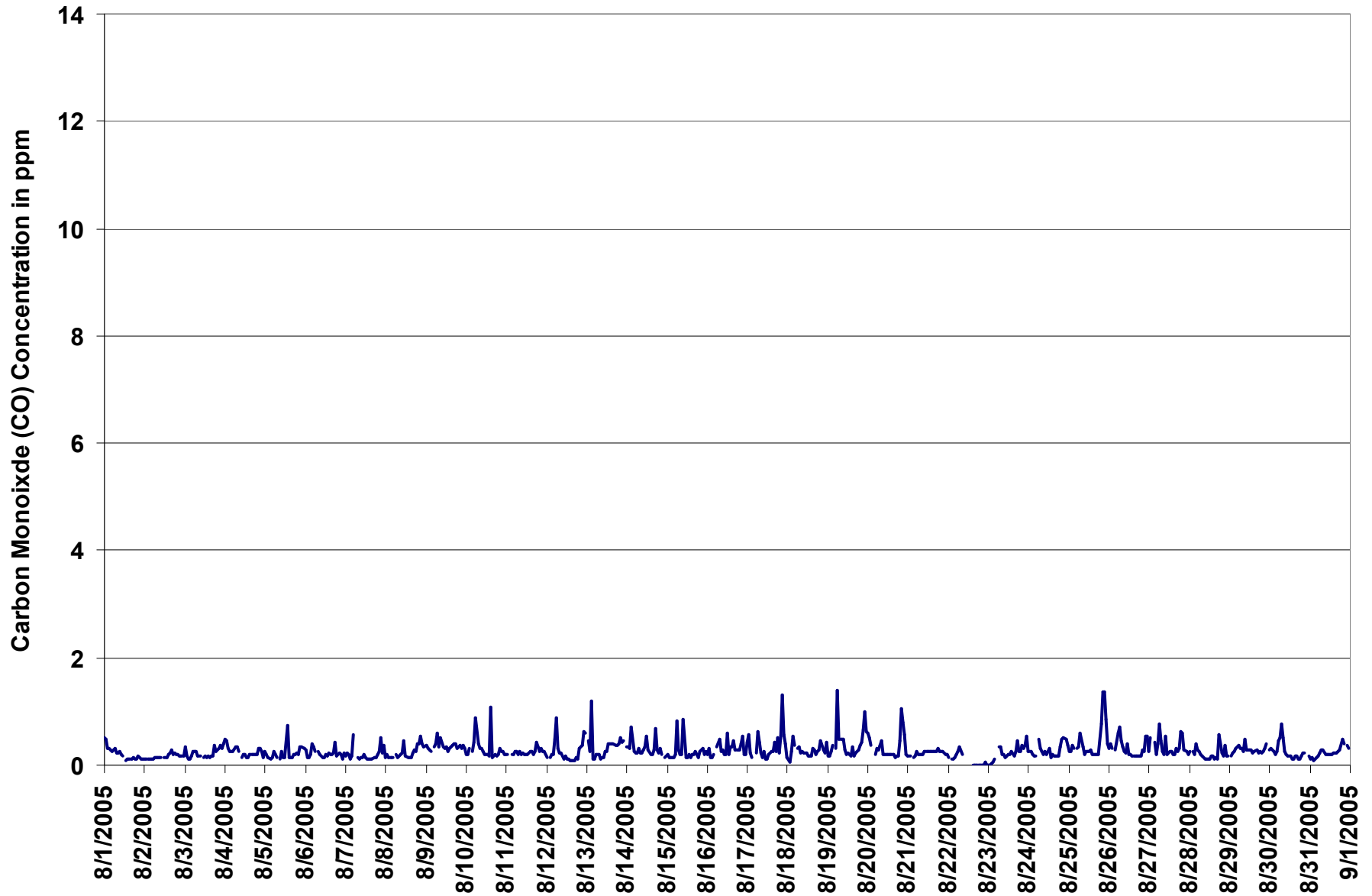
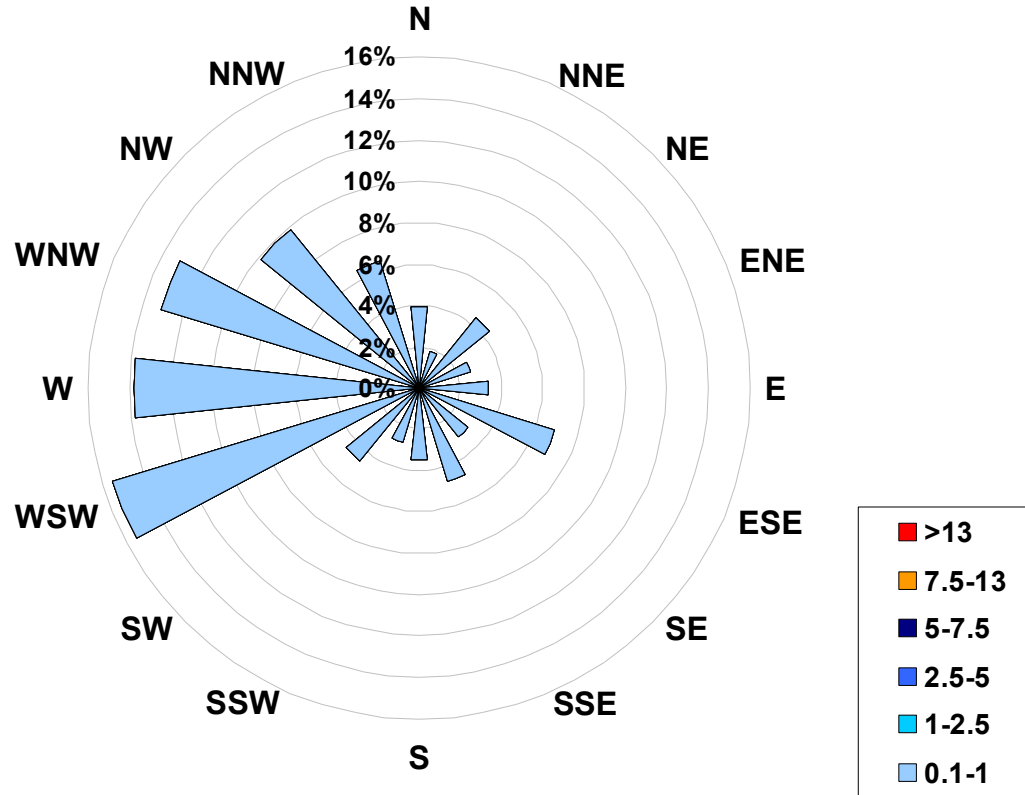


Figure 10. PASZA - Henry Pirker Carbon Monoxide 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Carbon Monoxide (in ppm) Located at the Henry Pirker Site for August 2005



Calms: 0%

Frequency Distribution of CO in ppm			
Range		Frequency (hrs)	
0.1	< 1	706	
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			706

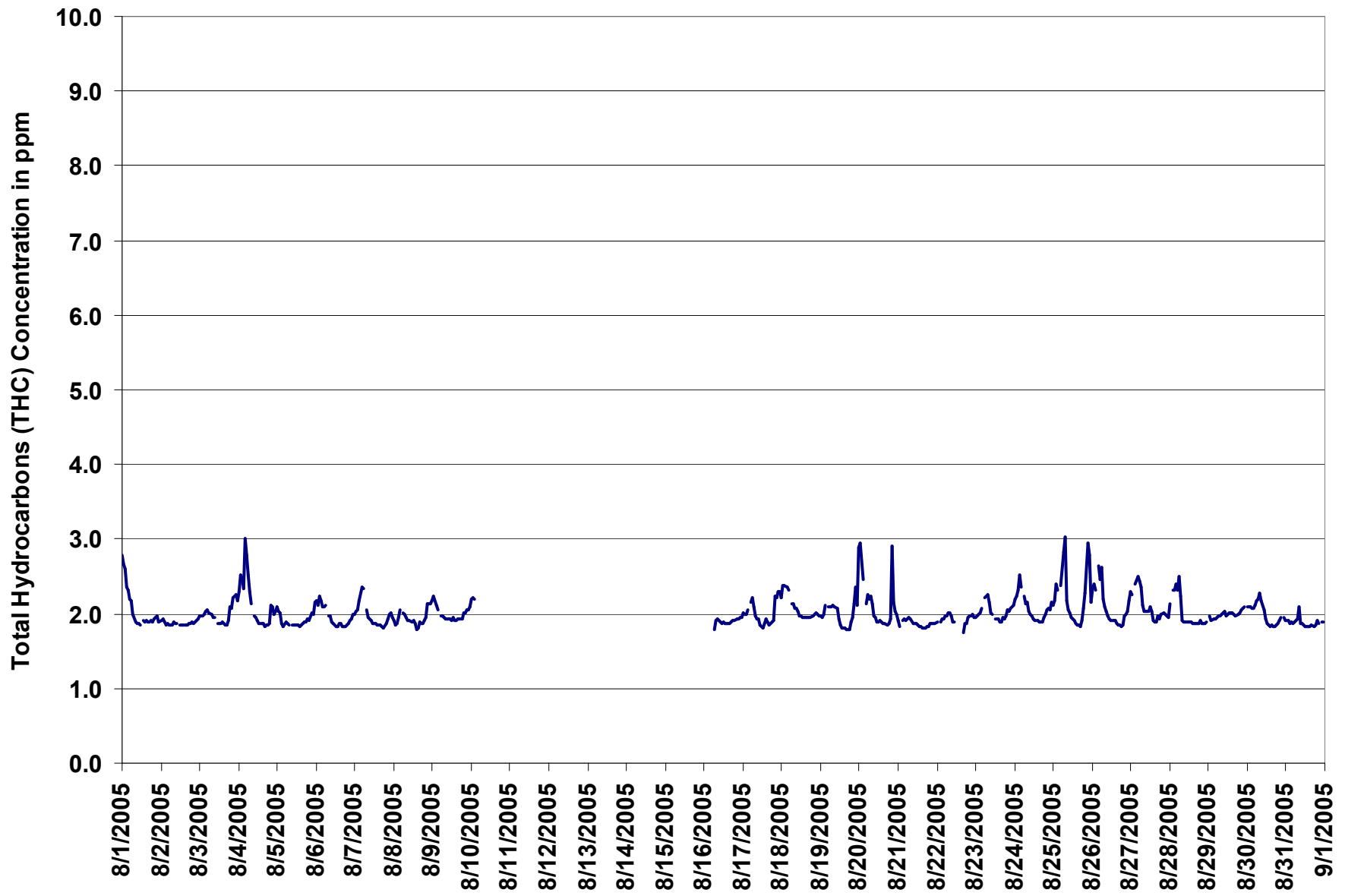


Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

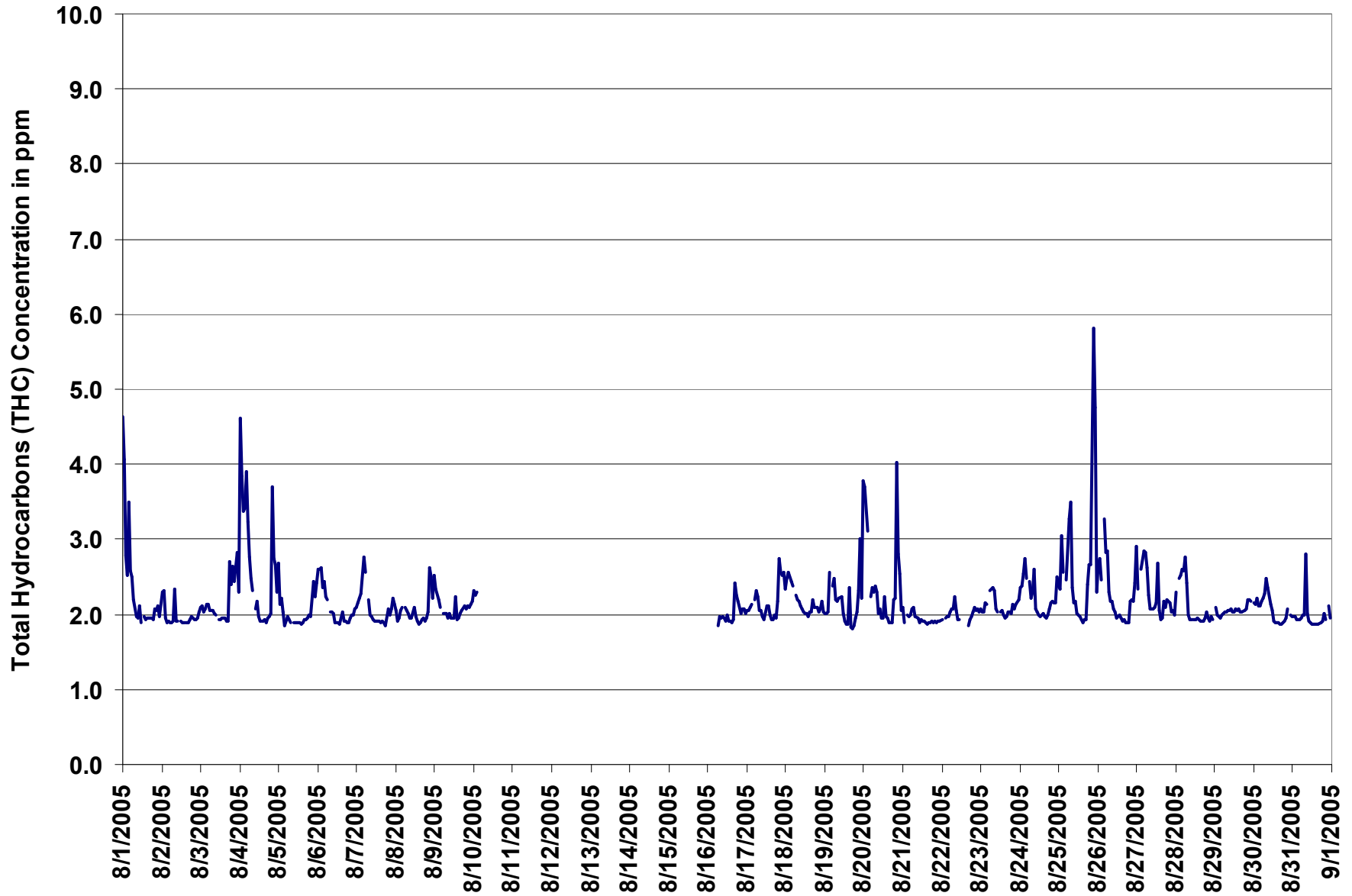
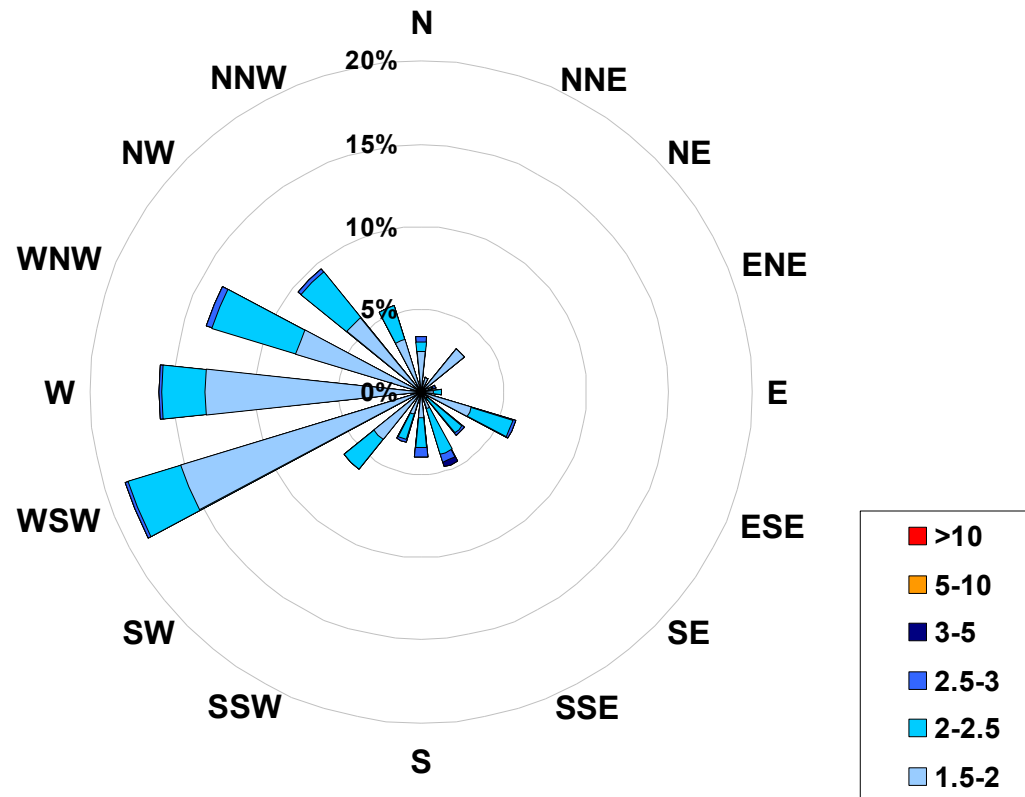


Figure 12. PASZA - Henry Pirker Total Hydrocarbons 1-hr Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Hydrocarbons (in ppm)
Located at the Henry Pirker Site for August 2005**



Calms: 0%

Frequency Distribution of THC in ppm			Frequency (hrs)
Range			
1.5	< 2		367
2	to 2.5		181
2.5	to 3		17
3	to 5		2
5	to 10		0
	> 10		0
Total Non-Zero Values			567

PASZA - Henry Pirker Total Reduced Sulphur Monthly Summary

HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Station: Henry Pirker
 Station Owner: PASZA

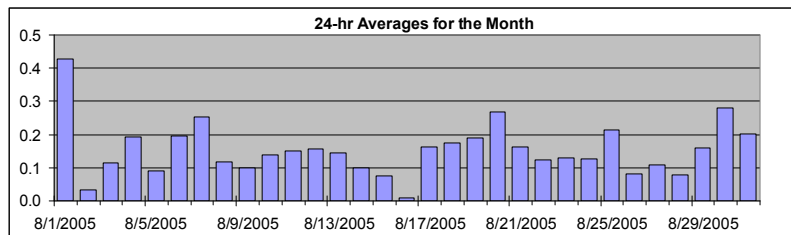
Monitoring Dates: August 1, 2005 to September 1, 2005

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

Summary

Maximum 1-hr Average:	2.0	ppb	1-Aug	0:00 1:00
Maximum 24-hr Value:	0.4	ppb	1-Aug	

AIC Time:	34 hrs	Operational Time:	708 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%
Percentile	99	95	75
	0.6	0.4	0.2
	50	25	5
	0.1	0.1	0.0
	1	0.0	0.0
Average	0.2 ppb		



Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum					
	Hour Start	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-Aug-05	0:00	2	2	1	1	1	1	1	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.0	
2-Aug-05	0:00	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	
3-Aug-05	0:00	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
4-Aug-05	0:00	0	0	0	0	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6	
5-Aug-05	0:00	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
6-Aug-05	0:00	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
7-Aug-05	0:00	0	0	0	0	0	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6	
8-Aug-05	0:00	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
9-Aug-05	0:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
10-Aug-05	0:00	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
11-Aug-05	0:00	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
12-Aug-05	0:00	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
13-Aug-05	0:00	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.5	
14-Aug-05	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.1	0.2	
15-Aug-05	0:00	0	0	0	0	0	0	0	0	0	0	0	0	C	C	A	A	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
16-Aug-05	0:00	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	
17-Aug-05	0:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5	
18-Aug-05	0:00	0	0	0	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5	
19-Aug-05	0:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
20-Aug-05	0:00	0	0	0	A	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
21-Aug-05	0:00	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2	
22-Aug-05	0:00	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
23-Aug-05	0:00	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
24-Aug-05	0:00	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
25-Aug-05	0:00	0	0	1	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6	
26-Aug-05	0:00	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
27-Aug-05	0:00	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
28-Aug-05	0:00	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
29-Aug-05	0:00	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.3	
30-Aug-05	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	0.5	
31-Aug-05	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.2	0.3	
Hourly Avg	0:00	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2				
Hourly Max	0:00	2.0	1.6	1.0	0.7	1.0	0.9	0.8	0.6	0.5	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.4	0.3		

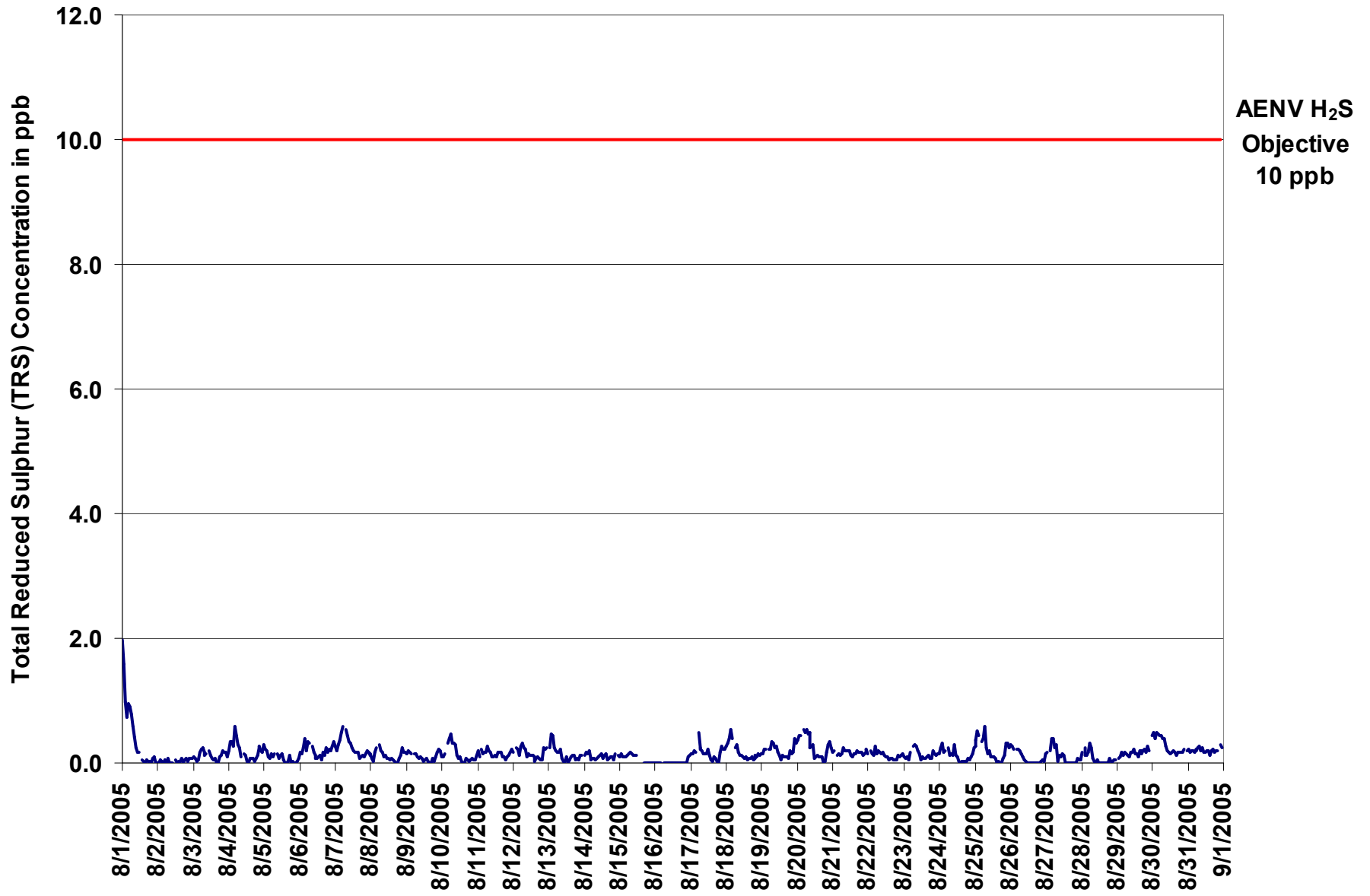


Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

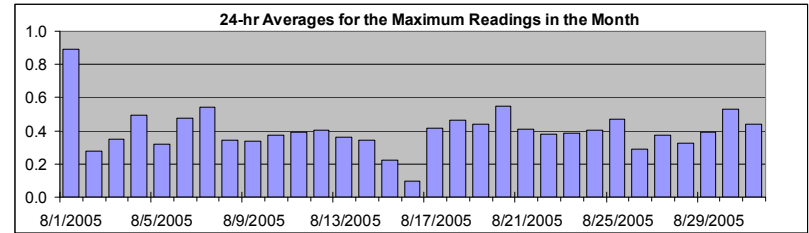
Total Reduced Sulphur (TRS)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	3.7	ppb	1-Aug	1:00 2:00
Maximum 24-hr Value:	0.9	ppb	1-Aug	

AIC Time:	34 hrs	Operational Time:	708 hrs					
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%					
Percentile	99 1.2	95 0.7	75 0.5	50 0.4	25 0.3	5 0.2	1 0.0	Average 0.4 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 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-Aug-05	4	4	1	1	2	1	1	1	1	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.9	3.7
2-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
3-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
4-Aug-05	1	1	1	1	1	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0.5	1.1
5-Aug-05	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
6-Aug-05	1	1	1	1	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.5	0.9
7-Aug-05	0	0	0	1	1	1	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.2
8-Aug-05	0	0	0	0	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
9-Aug-05	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
10-Aug-05	0	0	0	A	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.4	0.7
11-Aug-05	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
12-Aug-05	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0.4	0.7
13-Aug-05	A	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.4	0.8
14-Aug-05	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	0.6
15-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	C	C	A	A	0	0	0	0	0	0	0	0	0	0.2	0.5
16-Aug-05	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
17-Aug-05	0	0	0	0	A	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.0
18-Aug-05	0	1	1	1	1	A	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.5	0.9
19-Aug-05	0	0	0	0	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.4	0.6
20-Aug-05	1	1	1	A	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0.5	0.9
21-Aug-05	0	1	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.4	0.7
22-Aug-05	0	A	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0.4	0.5
23-Aug-05	0	0	0	0	0	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7
24-Aug-05	0	1	1	0	0	A	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.4	0.7
25-Aug-05	0	1	1	1	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0.5	0.9
26-Aug-05	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
27-Aug-05	0	0	A	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.9
28-Aug-05	0	A	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
29-Aug-05	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	A	0	0.4	0.5
30-Aug-05	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	A	1	0	0.5	0.8
31-Aug-05	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	A	A	1	0	0.4	0.7
Hourly Avg	0.5	0.6	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4			
Hourly Max	3.7	3.7	1.2	1.0	2.2	1.5	1.2	0.9	0.8	0.6	0.6	0.5	1.0	0.5	0.4	0.7	0.5	0.5	0.5	0.5	0.9	0.6	0.7	0.7			

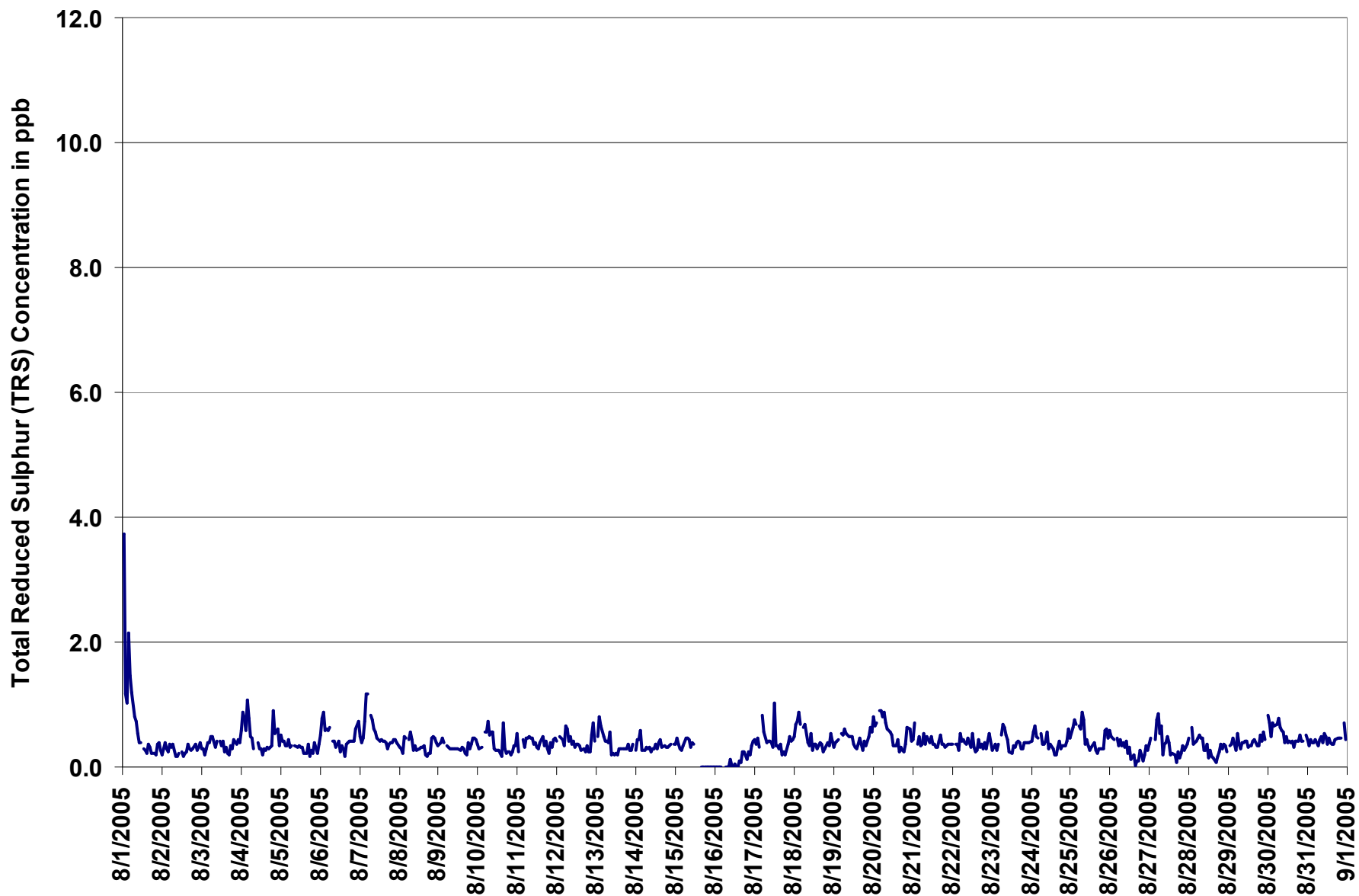
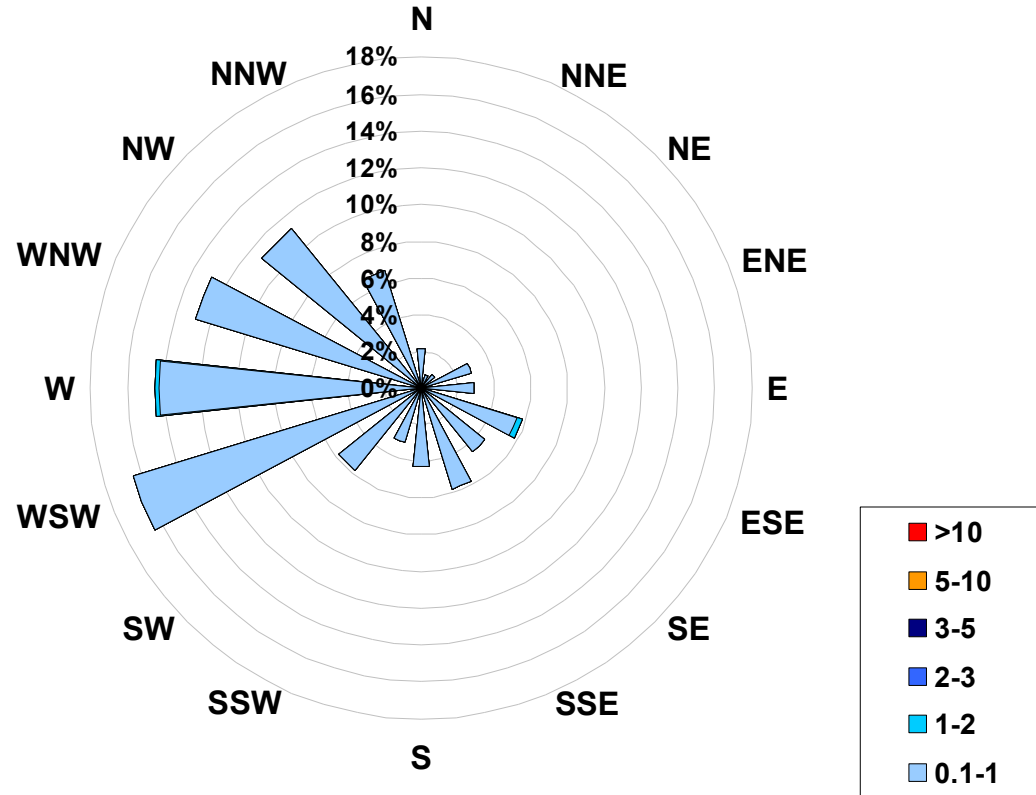


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Henry Pirker Site for August 2005**



Calms: 0%

Frequency Distribution of TRS in ppb			
Range		Frequency (hrs)	
0.1	< 1	706	
1	to 2	2	
2	to 3	0	
3	to 5	0	
5	to 10	0	
	> 10	0	
Total Non-Zero Values		708	

PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

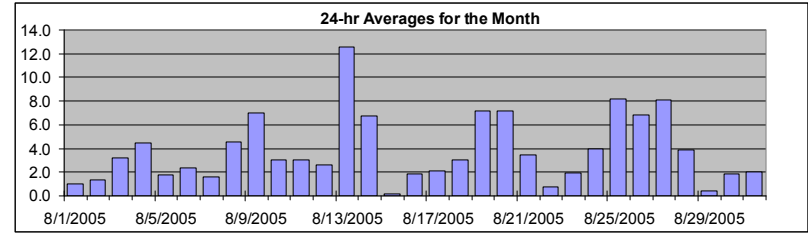
Particulate Matter (PM_{2.5})

Monitoring Dates: August 1, 2005 to September 1, 2005

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:	23.5 μg/m ³ 25-Aug 21:00 22:00
Maximum 24-hr Value:	12.6 μg/m ³ 13-Aug



AIC Time:	0 hrs	Operational Time:	737 hrs
Calibration Time:	1 hrs	AMD Operational Uptime:	99.2%
Percentile	99	95	75
	19.7	12.5	5.6
	2.4	0.6	0.0
	0.0	0.0	0.0
Average	3.8 μg/m ³		
Geomean	2.8 μg/m ³		

Status Flag Characters

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

Day	Mountain Standard Time																							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
1-Aug-05	1	0	0	0	0	3	4	7	1	0	0	0	D	0	0	1	0	0	2	1	2	1	0	0	1.0	7.0
2-Aug-05	0	0	1	2	0	0	2	1	1	0	2	4	1	0	2	4	2	0	2	2	0	0	1	1	1.3	4.2
3-Aug-05	1	1	2	1	2	2	4	4	4	3	3	1	1	0	0	1	2	2	3	6	8	9	7	6	3.2	9.1
4-Aug-05	5	6	5	3	4	4	6	8	7	7	5	5	4	2	2	4	4	3	3	1	5	6	3	3	4.5	7.8
5-Aug-05	2	2	3	1	0	1	0	2	1	0	0	1	1	1	0	0	2	3	3	4	3	6	3	3	1.8	5.9
6-Aug-05	4	2	3	2	2	4	4	4	3	5	0	1	2	3	4	1	6	5	1	0	0	0	0	0	2.3	6.0
7-Aug-05	0	0	0	0	0	1	5	3	2	2	2	0	0	0	0	0	2	2	0	4	4	6	3	2	1.6	5.7
8-Aug-05	0	0	0	1	0	2	1	3	2	2	4	4	5	4	4	5	7	5	9	13	15	10	10	4.5	14.9	
9-Aug-05	10	9	9	9	9	9	9	9	8	7	7	7	5	5	4	4	6	4	8	8	7	8	5	2	7.0	10.1
10-Aug-05	2	2	2	0	1	2	6	9	6	6	4	2	2	2	1	1	2	1	2	6	4	4	2	3	3.0	9.1
11-Aug-05	5	3	3	3	2	5	6	5	4	4	0	0	7	3	8	2	0	0	0	1	4	4	2	2	3.1	7.8
12-Aug-05	1	0	0	0	0	3	3	1	1	0	0	1	2	0	0	2	2	2	2	3	5	8	15	12	2.6	14.6
13-Aug-05	9	1	0	2	1	3	4	5	7	9	14	19	17	21	21	22	22	21	18	15	20	18	18	17	12.6	21.7
14-Aug-05	15	13	13	10	8	12	11	10	8	10	8	8	8	6	4	4	2	5	3	1	2	0	0	0	6.8	15.2
15-Aug-05	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0.2	1.5
16-Aug-05	0	0	0	1	2	0	1	2	0	1	2	2	3	4	3	4	2	2	3	3	5	3	2	0	1.8	5.3
17-Aug-05	0	0	0	0	0	0	3	4	1	0	2	0	0	2	0	0	0	2	1	3	6	9	12	6	2.1	11.6
18-Aug-05	2	1	1	0	1	4	6	6	7	5	3	0	0	3	3	4	4	3	3	5	6	4	2	2	3.0	7.4
19-Aug-05	2	1	1	1	1	1	3	5	10	14	14	6	8	6	6	6	5	6	7	10	11	16	18	13	7.2	17.9
20-Aug-05	13	12	5	5	7	9	8	8	3	9	5	7	3	4	6	3	D	2	0	5	23	14	9	5	7.2	22.8
21-Aug-05	2	0	0	1	1	3	4	4	6	4	9	8	8	5	5	4	4	4	D	0	0	D	0	D	3.5	9.1
22-Aug-05	0	0	0	0	0	1	2	3	2	1	0	0	0	C	D	0	0	0	0	2	2	2	2	0	0.8	3.4
23-Aug-05	0	0	0	0	1	2	4	6	4	1	1	1	1	3	2	1	4	2	2	2	4	2	1	2	2.0	6.1
24-Aug-05	2	1	1	1	2	4	6	6	4	3	5	3	2	1	1	2	3	2	2	5	13	12	9	5	3.9	12.6
25-Aug-05	6	8	8	6	5	6	7	20	13	10	8	6	6	5	5	4	3	3	3	6	15	23	15	8	8.2	23.5
26-Aug-05	7	7	9	6	6	9	16	14	12	11	8	4	3	2	2	2	3	3	4	3	5	8	11	8	6.8	15.8
27-Aug-05	7	6	5	7	5	6	8	9	6	7	8	8	13	11	6	5	4	12	10	11	11	11	8	7	8.1	13.3
28-Aug-05	10	13	9	9	9	8	12	11	2	0	0	0	0	1	0	0	0	0	1	8	0	0	0	0	3.9	12.5
29-Aug-05	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	2	1	0.4	2.2
30-Aug-05	2	2	0	0	1	1	4	5	8	5	4	2	1	0	1	0	0	1	1	1	2	2	1	1	1.9	8.0
31-Aug-05	0	0	0	0	0	1	3	3	4	2	1	1	1	1	1	1	4	5	2	7	4	3	3	2	2.0	6.6
Hourly Avg	3.5	2.9	2.6	2.4	2.3	3.4	4.9	5.8	4.5	4.2	3.8	3.3	3.4	3.2	3.1	2.8	3.2	3.3	3.1	4.3	6.0	6.5	5.3	4.1		
Hourly Max	15.2	13.1	12.9	9.8	9.2	12.1	15.8	19.6	12.8	14.3	14.4	18.9	17.1	20.7	20.6	21.6	21.7	20.7	17.8	14.9	22.8	23.5	17.9	17.3		

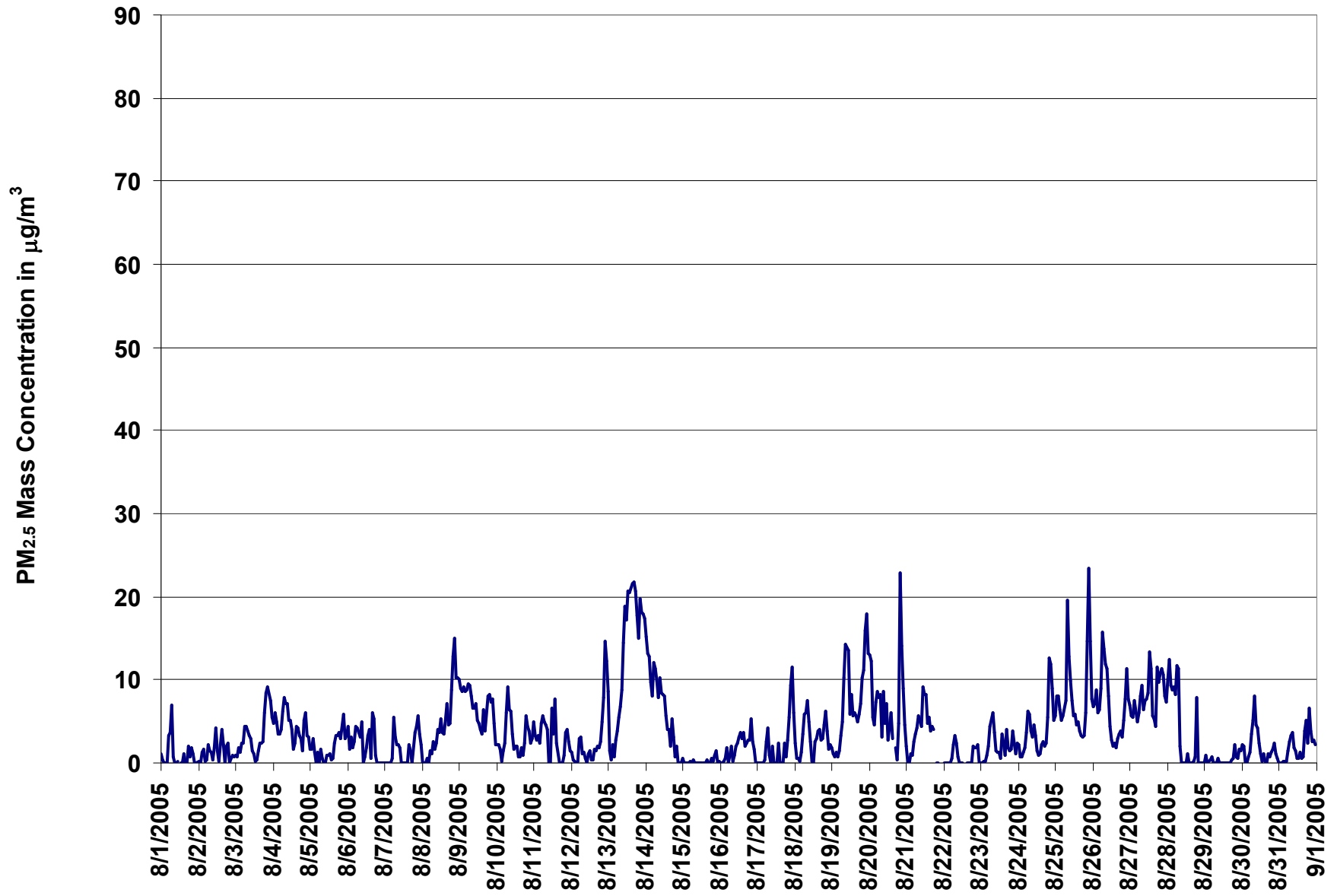


Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

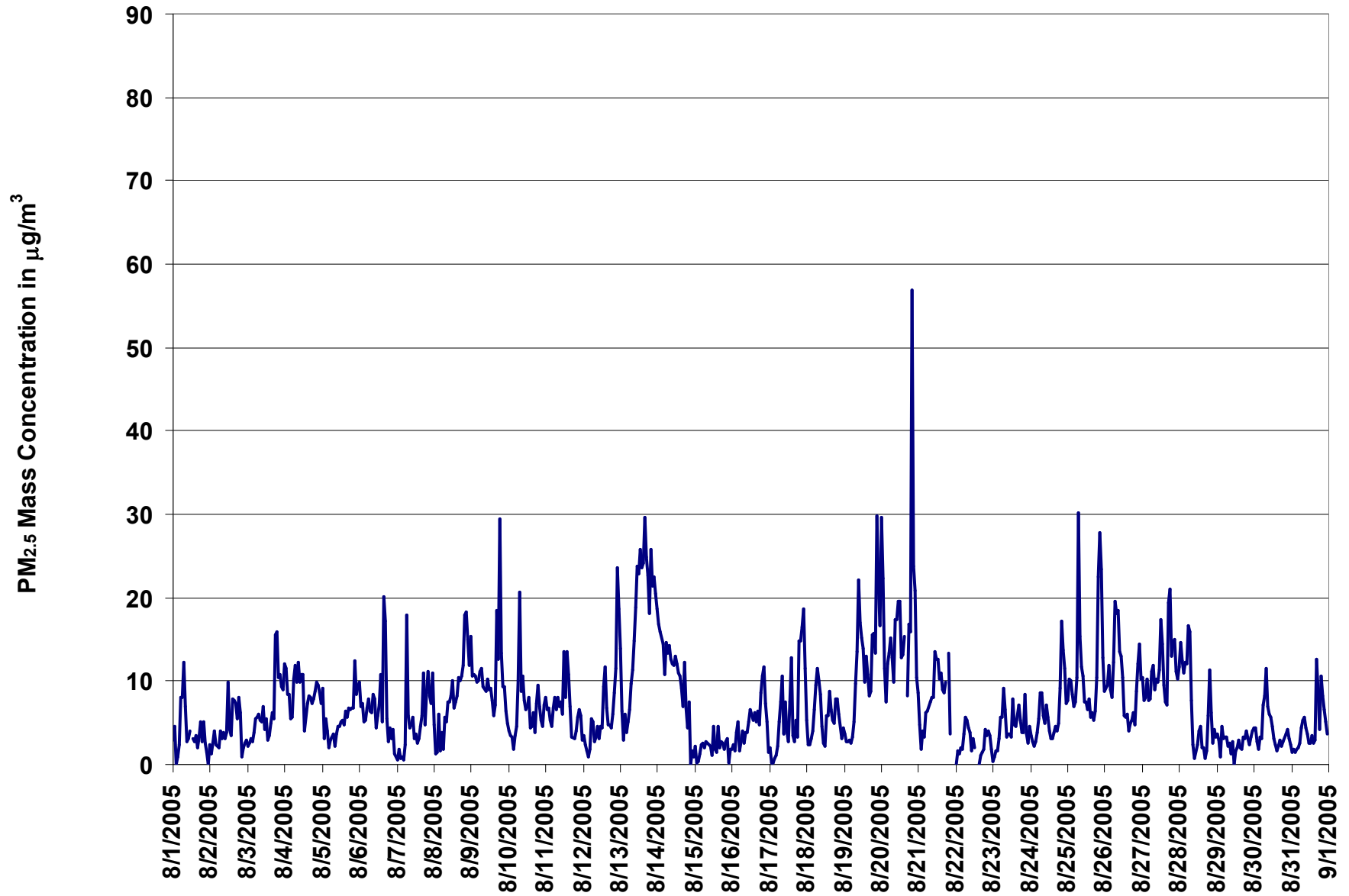
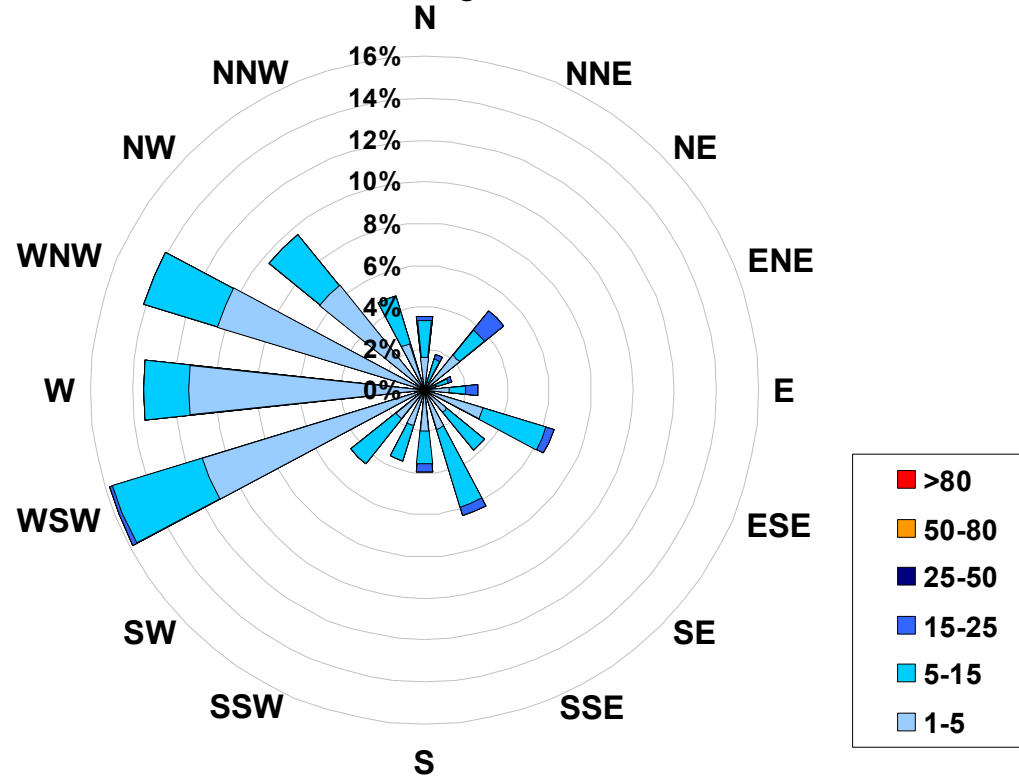


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Henry Pirker Site for August 2005



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			Frequency (hrs)
Range			
1.0	< 5		528
5	to 15		190
15	to 25		19
25	to 50		0
50	to 80		0
	> 80		0
Total Non-Zero Values			737

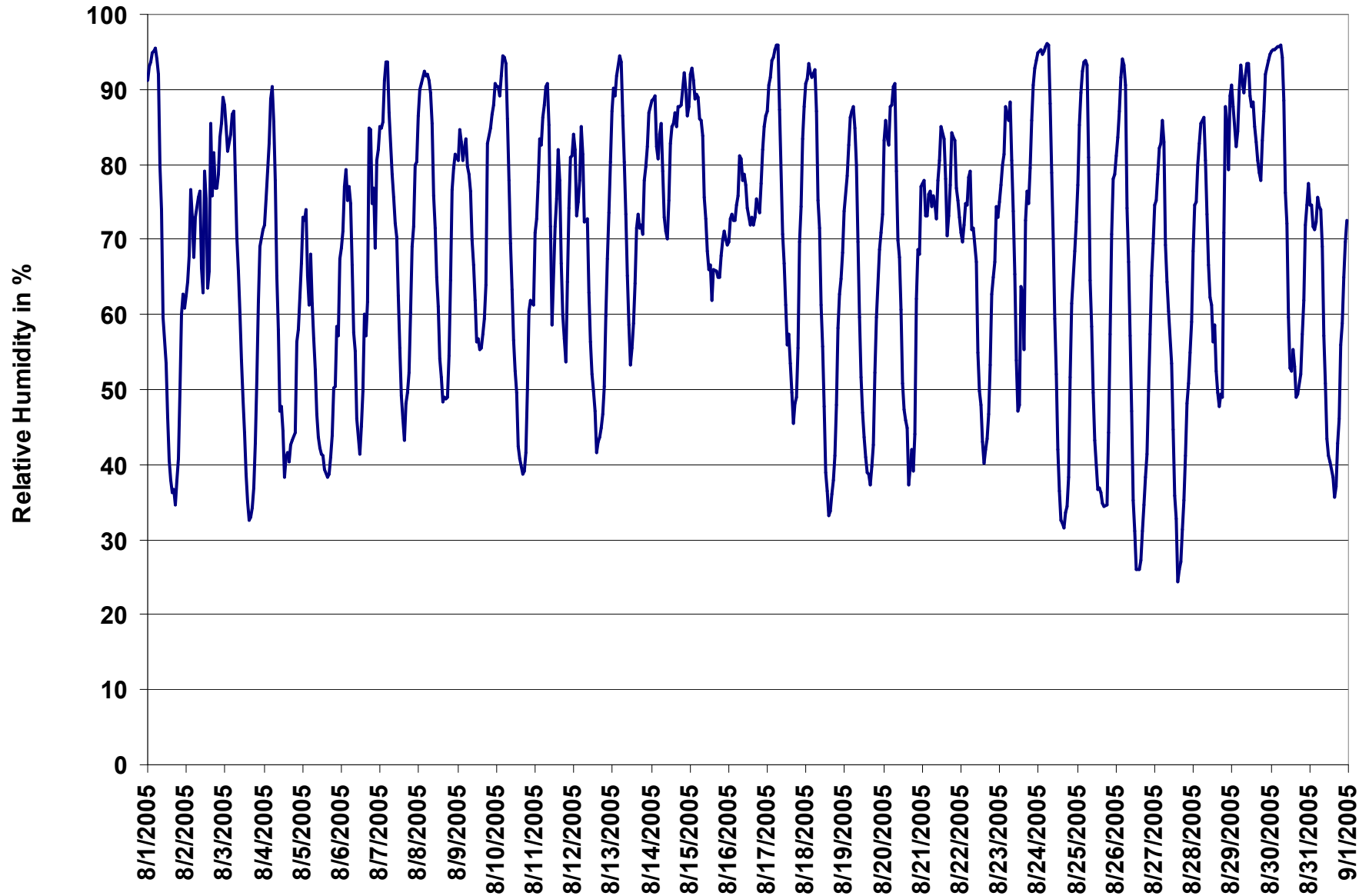


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

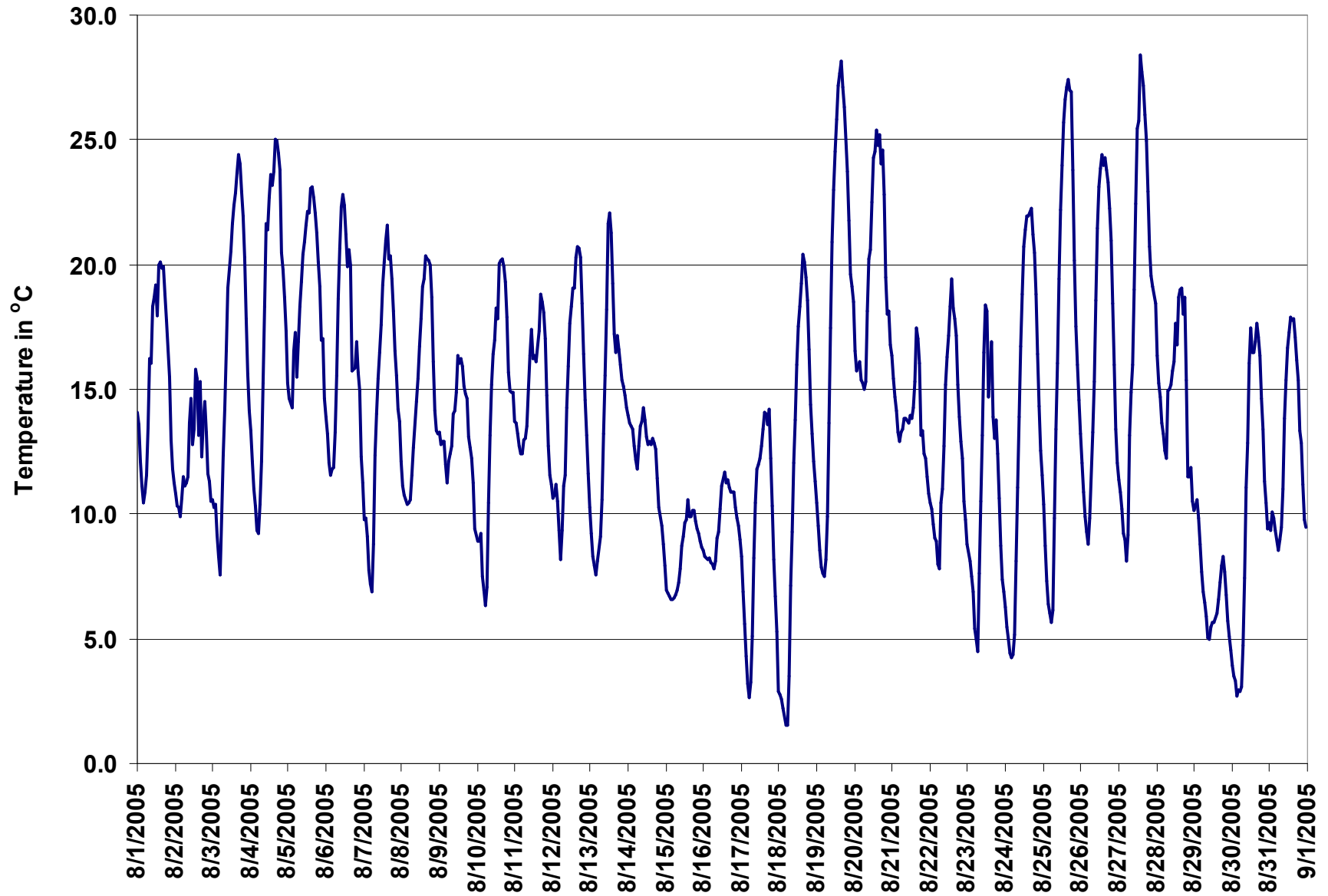


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

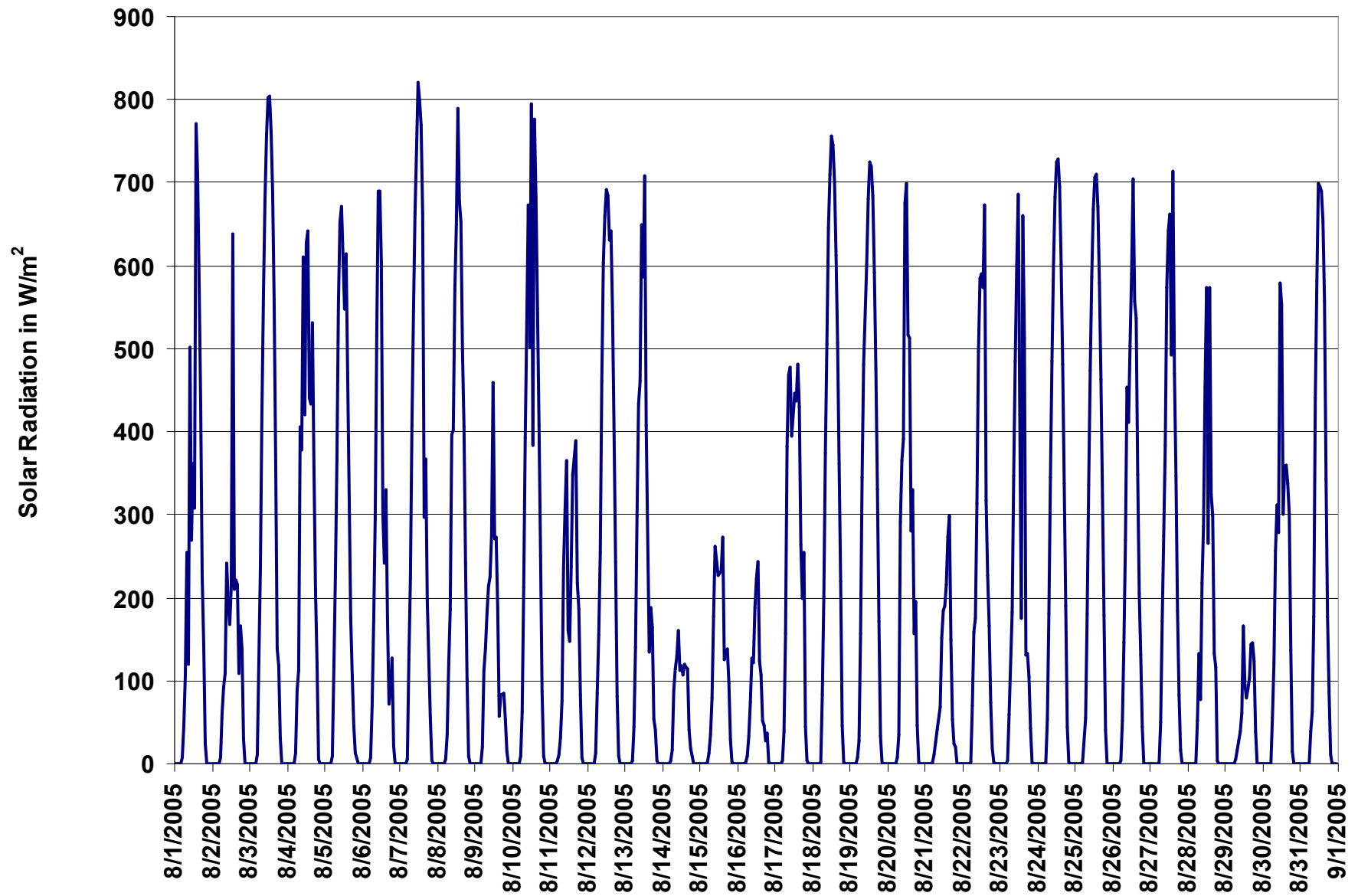


Figure 19. PASZA - Henry Pirker Solar Radiation 1-hr Average Monthly Trend

PASZA - Henry Pirker Scalar Wind Speed Monthly Summary

HOURLY AVERAGE TABLE

Wind Speed (WSs)

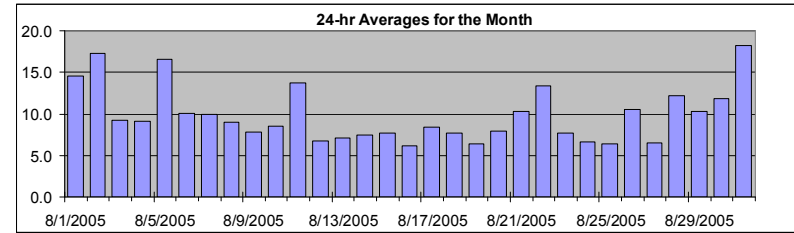
Station: Henry Pirker
 Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	30.3	km/hr	31-Aug	15:00 16:00
Maximum 24-hr Value:	18.2	km/hr	31-Aug	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	27.5	22.0	12.1	8.2	6.1	4.2	3.4	9.9 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 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-Aug-05	3	6	5	4	5	10	7	15	10	14	24	19	23	25	23	24	22	20	22	21	15	11	11	11	14.6	24.9	
2-Aug-05	11	10	13	14	21	26	27	26	14	21	25	19	19	24	18	15	14	19	13	16	18	14	11	7	17.3	27.3	
3-Aug-05	8	8	10	8	7	7	9	11	13	15	12	12	13	13	13	12	10	8	4	6	6	6	5	5	9.2	15.2	
4-Aug-05	5	4	3	5	6	6	5	8	9	10	12	14	16	20	15	11	13	10	10	11	7	6	8	6	9.1	19.7	
5-Aug-05	7	8	7	14	17	10	18	18	23	30	29	25	23	22	21	23	24	20	16	12	11	7	9	4	16.6	29.8	
6-Aug-05	6	5	4	5	4	5	5	4	4	7	17	22	20	16	11	8	14	18	8	10	13	16	11	9	10.1	22.3	
7-Aug-05	7	7	7	5	4	4	6	10	14	16	16	18	17	15	13	12	11	14	9	7	8	5	8	7	9.9	17.7	
8-Aug-05	17	12	7	9	8	8	9	6	9	7	7	10	10	13	12	12	12	12	9	8	7	5	5	4	9.0	16.8	
9-Aug-05	6	7	9	10	9	6	8	10	8	6	7	8	8	9	6	7	7	7	7	10	10	8	6	6	7.8	10.5	
10-Aug-05	6	4	6	5	6	5	6	6	6	7	9	8	11	8	9	12	14	13	14	10	10	11	10	8	8.5	13.9	
11-Aug-05	8	11	12	13	12	11	14	13	13	18	21	20	16	16	15	17	19	18	17	16	9	7	5	7	13.7	20.6	
12-Aug-05	6	5	8	6	3	5	4	6	6	6	6	6	6	8	10	10	9	9	9	10	6	5	5	5	6.7	10.4	
13-Aug-05	4	5	4	5	4	6	6	7	6	9	7	7	12	14	14	9	8	6	6	6	7	7	5	5	7.1	13.9	
14-Aug-05	5	6	5	6	5	6	5	7	8	7	6	7	7	7	7	8	9	7	7	10	9	11	11	10	7.4	11.3	
15-Aug-05	10	6	6	5	5	5	6	7	7	9	8	9	7	8	8	10	10	9	9	9	7	7	8	8	7.6	10.4	
16-Aug-05	8	5	7	7	7	6	6	6	6	7	6	6	5	6	7	8	7	7	5	4	4	4	5	6	7	6.2	8.5
17-Aug-05	9	9	10	8	7	7	6	8	10	9	9	9	10	11	12	12	14	11	10	6	4	4	4	5	8.4	14.3	
18-Aug-05	6	6	6	5	5	7	7	5	7	6	8	7	7	8	8	6	9	10	13	11	9	10	10	11	7.7	12.9	
19-Aug-05	10	7	6	4	4	3	4	5	4	5	5	8	10	10	7	8	5	8	8	9	7	4	6	5	6.4	10.4	
20-Aug-05	4	3	4	9	9	7	9	7	6	8	10	12	11	11	9	12	14	8	5	4	4	5	11	8	7.9	14.1	
21-Aug-05	13	15	10	8	8	7	6	8	10	9	9	9	9	8	8	5	6	15	15	12	12	14	15	14	10.3	15.3	
22-Aug-05	16	14	13	14	15	10	8	11	12	15	22	24	19	15	16	18	15	16	10	7	9	8	7	10	13.4	23.6	
23-Aug-05	8	7	6	6	6	7	4	6	8	9	6	6	7	9	13	13	15	6	10	7	6	6	6	5	7.7	14.7	
24-Aug-05	5	5	6	5	4	4	5	8	7	8	6	7	7	8	7	8	7	9	9	7	8	7	6	6	6.6	9.2	
25-Aug-05	5	5	4	5	5	6	6	5	7	9	9	8	8	8	9	9	9	8	4	4	4	5	6	5	6.4	9.4	
26-Aug-05	3	3	5	3	3	4	4	6	8	9	12	18	20	22	21	18	14	14	20	16	10	8	7	4	10.5	22.0	
27-Aug-05	4	4	5	5	4	4	3	4	6	7	7	5	5	4	7	8	10	8	7	8	9	8	9	11	6.5	10.8	
28-Aug-05	7	7	6	4	4	5	7	13	27	27	21	19	18	19	13	12	11	6	6	14	16	10	10	9	12.1	27.3	
29-Aug-05	8	9	13	13	12	11	14	14	12	13	12	13	10	13	12	12	9	8	6	8	7	6	6	5	10.3	14.2	
30-Aug-05	6	5	5	6	6	5	4	5	5	8	9	10	17	25	19	21	23	27	22	18	13	6	8	10	11.8	27.0	
31-Aug-05	13	10	18	18	15	13	14	13	14	26	28	29	29	27	30	30	28	22	17	9	11	9	8	7	18.2	30.3	
1-hr Average	7.6	7.0	7.4	7.6	7.4	7.3	7.8	9.0	9.8	11.6	12.4	12.6	12.9	13.6	12.8	12.5	12.6	12.0	10.6	9.9	9.0	7.7	7.8	7.4			
Hourly Max	16.8	15.0	17.5	17.9	20.8	26.1	27.3	26.4	27.0	29.8	28.9	28.7	28.8	27.4	29.8	30.3	27.5	27.0	22.5	20.9	18.2	16.3	15.3	14.1			

PASZA - Henry Pirker Vector Wind Speed Monthly Summary

HOURLY AVERAGE TABLE

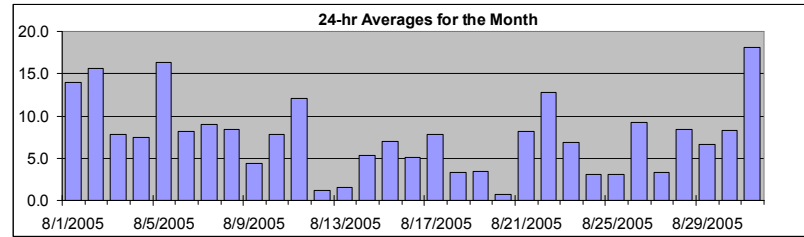
Wind Speed (WSv)

Station: Henry Pirker
 Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	29.9	km/hr	31-Aug	15:00 16:00
Maximum 24-hr Value:	18.1	km/hr	31-Aug	



Calm Time:	1 hrs	0% calms	Operational Time:	743 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	27.2	21.6	11.6	7.6	5.4	3.0	1.6	28.3 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 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-Aug-05	1	6	5	4	3	10	6	15	10	14	24	18	22	25	23	23	22	20	21	21	14	10	11	11	14.0	24.7
2-Aug-05	11	10	13	14	21	26	27	26	14	21	24	18	19	24	18	14	14	18	12	15	18	14	10	7	15.6	27.2
3-Aug-05	8	8	10	7	6	7	9	11	13	15	12	12	12	12	12	9	8	2	6	6	6	5	4	7.8	14.8	
4-Aug-05	4	3	3	5	6	6	4	7	9	9	11	13	15	19	15	10	12	8	10	10	7	6	8	6	7.5	19.4
5-Aug-05	7	8	6	14	17	10	17	18	23	29	28	24	23	22	21	23	23	20	16	12	11	7	8	3	16.3	29.5
6-Aug-05	5	4	3	5	2	4	2	1	1	6	15	22	19	15	9	7	12	18	7	9	13	15	11	8	8.2	22.1
7-Aug-05	7	6	6	5	3	3	5	9	14	15	16	17	16	14	13	11	11	13	9	7	7	4	4	4	9.0	17.0
8-Aug-05	17	12	6	7	8	8	9	6	8	7	6	9	9	12	11	11	11	11	9	7	7	5	4	4	8.4	16.6
9-Aug-05	5	7	9	10	9	6	7	10	7	5	7	7	7	8	5	6	6	7	1	10	10	8	5	6	4.4	10.3
10-Aug-05	6	3	6	5	6	5	6	6	6	7	8	6	10	6	9	11	13	13	14	10	10	11	9	8	7.8	13.6
11-Aug-05	7	11	11	13	11	11	14	13	13	17	20	20	16	15	15	16	19	18	17	16	9	6	5	7	12.1	20.2
12-Aug-05	6	4	8	6	3	5	4	6	5	4	3	3	3	7	9	9	8	8	6	9	6	5	5	5	1.1	9.4
13-Aug-05	4	4	4	3	4	6	6	7	6	9	7	5	11	13	13	9	7	6	5	5	6	6	4	4	1.5	13.5
14-Aug-05	5	5	5	6	5	6	5	7	8	7	6	6	7	7	7	8	8	7	6	10	9	11	11	10	5.3	11.1
15-Aug-05	9	6	5	4	5	5	6	7	7	9	8	8	6	8	7	10	10	9	9	9	7	7	8	8	7.0	10.2
16-Aug-05	8	5	6	7	7	6	5	5	7	6	5	4	5	6	7	6	7	5	4	4	3	5	6	7	5.1	8.4
17-Aug-05	9	9	9	8	6	7	6	8	9	8	8	8	9	9	11	10	14	11	9	5	3	4	4	5	7.8	13.9
18-Aug-05	5	5	5	4	4	6	7	4	7	4	7	5	4	5	4	4	9	10	13	11	9	10	10	11	3.3	12.7
19-Aug-05	10	7	6	3	4	3	4	4	3	4	4	7	9	8	4	6	1	7	8	9	7	4	5	5	3.4	9.7
20-Aug-05	1	1	2	9	7	3	6	6	6	7	9	11	10	10	9	10	14	8	4	3	3	3	10	8	0.7	13.9
21-Aug-05	13	15	10	7	8	6	6	7	10	9	9	8	8	8	7	4	4	14	13	12	12	14	15	14	8.2	15.2
22-Aug-05	16	14	13	14	15	9	7	10	12	15	22	23	18	14	15	17	15	15	10	7	8	8	7	9	12.8	23.2
23-Aug-05	7	6	6	6	5	7	4	6	8	8	5	3	4	8	12	13	12	5	10	7	5	6	5	5	6.8	12.8
24-Aug-05	4	4	6	4	3	4	4	7	7	7	5	6	7	7	4	5	5	8	9	7	7	7	6	6	3.0	9.0
25-Aug-05	5	5	3	4	5	6	6	5	6	8	8	7	6	7	8	8	8	8	4	4	4	4	5	2	3.0	8.4
26-Aug-05	2	3	5	2	2	3	4	6	7	9	12	18	19	22	20	18	13	13	19	16	10	6	6	2	9.3	21.6
27-Aug-05	calm	3	1	4	4	3	3	4	6	6	6	4	5	2	3	5	8	8	7	8	9	8	9	11	3.3	10.5
28-Aug-05	6	6	5	2	2	4	6	12	27	27	21	18	17	19	13	12	10	5	4	11	15	8	4	8	8.4	27.1
29-Aug-05	8	9	13	12	11	10	13	14	12	13	12	13	10	13	12	12	9	8	5	8	7	6	5	5	6.6	14.0
30-Aug-05	6	5	5	6	5	5	4	5	5	8	8	8	16	24	19	20	23	27	22	18	13	6	8	10	8.3	26.8
31-Aug-05	13	10	17	18	15	13	14	13	14	26	27	28	28	27	29	30	27	22	16	9	11	8	7	7	18.1	29.9
1-hr Vector	2.7	2.4	2.8	2.9	3.7	4.3	4.3	4.9	5.5	7.3	8.4	8.4	8.9	9.8	8.7	8.3	8.3	7.2	5.0	4.5	3.9	2.2	2.2	2.1		
Hourly Max	16.6	14.7	17.4	17.8	20.6	26.0	27.2	26.3	26.7	29.5	28.3	28.1	28.4	26.8	29.4	29.9	27.2	26.8	22.3	20.7	18.2	15.4	15.2	14.0		

PASZA - Henry Pirker Wind Direction Monthly Summary

HOURLY AVERAGE TABLE

Wind Direction (WD)

Station: Henry Pirker
 Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

--

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	351.3	332.2	292.0	255.2	162.8	43.6	6.8	273 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

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	24-hour Average	WD Sector
1-Aug-05	120	265	304	307	303	252	249	267	273	250	252	244	255	255	256	255	261	259	248	242	261	255	242	225	255	WSW	
2-Aug-05	216	218	237	228	248	254	254	254	264	262	276	319	302	288	309	309	304	279	289	256	258	265	257	273	269	W	
3-Aug-05	260	276	259	277	268	277	271	252	252	267	274	267	263	250	237	263	297	287	293	169	165	164	192	177	257	WSW	
4-Aug-05	168	174	163	157	167	153	162	179	219	243	253	257	249	252	261	249	264	257	241	260	274	216	236	271	238	WSW	
5-Aug-05	230	276	261	274	279	255	270	256	261	265	262	270	267	281	296	280	270	265	274	281	289	284	288	272	271	W	
6-Aug-05	302	299	301	194	211	225	188	301	89	193	273	282	297	293	270	195	232	291	299	246	273	267	296	256	270	W	
7-Aug-05	322	301	304	315	264	297	297	292	300	298	316	314	305	298	298	290	306	297	325	315	347	39	195	298	304	NW	
8-Aug-05	304	353	319	252	256	263	284	292	306	300	299	307	271	288	298	291	303	308	296	295	306	316	314	317	297	WNW	
9-Aug-05	321	313	324	332	342	342	347	17	32	18	15	36	45	53	48	45	34	51	118	245	254	254	269	329	356	N	
10-Aug-05	317	329	341	313	289	308	324	300	278	240	237	279	238	268	256	286	292	282	294	290	285	288	272	267	283	WNW	
11-Aug-05	273	255	263	252	267	268	296	305	295	305	316	328	308	297	330	317	317	349	346	344	329	325	328	337	309	NW	
12-Aug-05	328	13	70	75	61	350	20	67	90	118	185	297	264	318	308	288	275	288	246	206	167	161	166	163	284	WNW	
13-Aug-05	233	276	291	305	273	229	247	261	259	243	244	21	56	49	51	51	52	43	72	83	109	99	84	148	40	NE	
14-Aug-05	90	77	23	3	344	315	327	345	359	7	26	36	1	319	298	311	341	318	308	7	39	68	79	70	8	N	
15-Aug-05	92	93	66	63	28	32	66	72	81	100	120	119	117	121	116	83	103	127	119	115	105	93	80	85	96	E	
16-Aug-05	97	86	32	36	55	45	45	44	48	76	82	65	39	11	10	14	5	40	47	34	347	328	345	337	35	NE	
17-Aug-05	349	346	335	342	319	332	331	315	319	334	279	293	332	304	318	331	345	1	7	349	299	314	281	286	328	NNW	
18-Aug-05	296	320	272	291	300	282	260	241	239	204	148	159	172	173	169	122	105	113	108	105	109	108	105	106	145	SE	
19-Aug-05	109	112	107	93	97	119	110	134	140	204	199	203	211	207	280	295	354	117	111	128	118	180	105	112	144	SE	
20-Aug-05	357	66	77	114	332	290	322	168	93	132	165	140	162	185	184	205	290	314	341	1	353	326	327	325	235	SW	
21-Aug-05	323	309	290	269	243	242	187	238	257	308	307	264	229	186	175	240	233	283	270	231	231	231	235	223	254	WSW	
22-Aug-05	230	236	235	248	253	267	288	252	255	253	260	271	267	273	266	266	265	294	305	282	240	249	262	262	261	W	
23-Aug-05	275	259	248	244	223	289	302	299	286	293	269	269	253	276	242	232	317	278	302	279	268	305	306	320	276	W	
24-Aug-05	297	287	298	295	313	291	231	252	287	257	215	250	261	244	211	191	197	151	173	123	106	108	110	113	220	SW	
25-Aug-05	143	147	122	127	153	157	159	168	219	228	243	244	245	265	305	305	292	323	299	160	137	174	194	301	227	SW	
26-Aug-05	257	183	162	151	188	192	237	225	231	224	234	255	273	268	258	256	248	230	257	257	242	267	301	355	250	WSW	
27-Aug-05	263	141	88	143	142	103	89	127	110	132	152	237	255	336	6	116	63	40	51	10	2	51	82	108	82	E	
28-Aug-05	164	159	210	244	180	235	287	288	277	269	269	254	259	262	279	289	325	318	97	223	311	46	147	294	268	W	
29-Aug-05	328	339	10	358	355	343	348	345	331	327	321	328	325	290	288	289	293	279	235	189	177	168	142	143	321	NW	
30-Aug-05	137	124	108	117	127	122	126	146	145	190	177	226	255	262	260	251	269	263	256	255	250	222	237	246	240	WSW	
31-Aug-05	250	236	252	248	236	245	247	246	248	253	252	262	261	255	261	256	255	254	250	245	253	261	249	252	253	WSW	
Hourly Avg	276	282	289	272	270	270	279	270	275	263	262	275	271	272	277	274	289	287	279	257	268	258	246	267			

PASZA - Henry Pirker Standard Deviation of Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Determined by the Yamartino 15-min interval calculation

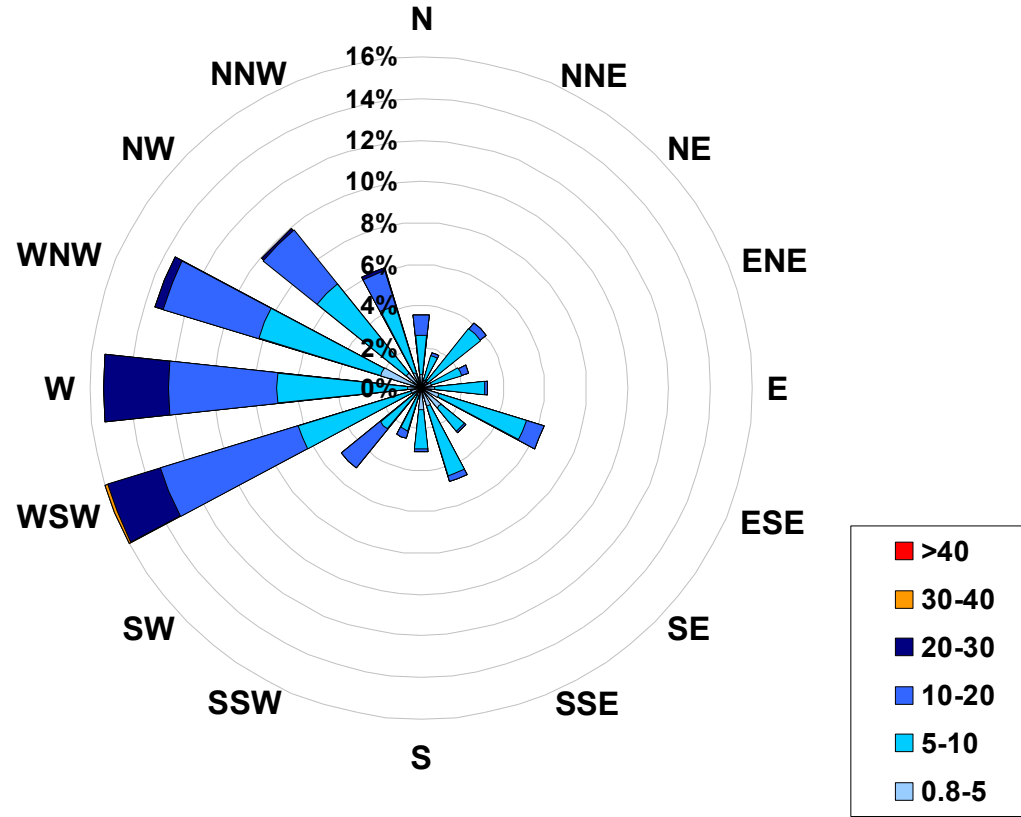
Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	54.7	43.0	21.4	13.4	8.9	5.9	4.6

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

Day Mountain Standard Time

Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Daily Maximum
1-Aug-05		42	22	27	22	38	16	32	7	13	9	7	9	10	6	9	11	9	9	8	8	8	11	7	8	42.1	
2-Aug-05		7	8	7	6	5	4	4	4	16	8	8	10	7	8	8	10	8	7	10	8	5	9	13	20	20.3	
3-Aug-05		8	12	7	18	19	9	9	6	8	8	14	17	18	21	25	23	16	16	28	5	7	9	14	20	27.6	
4-Aug-05		22	44	15	7	10	8	42	33	23	15	13	11	10	9	12	14	17	18	13	9	15	10	9	13	44.2	
5-Aug-05		16	8	14	16	5	11	7	6	7	8	9	9	11	7	7	9	9	7	5	6	14	21	31	31.2		
6-Aug-05		22	50	45	14	45	51	34	55	53	34	24	8	10	8	14	17	13	6	17	39	8	8	4	18	54.8	
7-Aug-05		12	12	18	21	24	31	33	11	9	10	11	14	14	13	15	20	12	10	9	7	13	23	33	34	34.0	
8-Aug-05		9	11	18	49	9	9	8	13	14	23	27	25	19	19	17	16	18	16	12	7	5	14	14	9	48.8	
9-Aug-05		17	9	6	7	7	13	12	12	23	34	25	25	28	28	48	26	19	16	33	8	9	9	13	9	48.1	
10-Aug-05		9	20	8	18	20	7	7	13	17	21	24	46	21	28	23	20	13	14	8	5	4	4	11	8	46.3	
11-Aug-05		9	10	12	7	9	9	5	5	6	7	9	10	8	8	10	11	8	8	7	7	6	6	18	6	18.2	
12-Aug-05		8	11	9	14	29	17	18	18	26	50	55	41	48	43	24	26	31	21	18	9	6	6	8	8	54.6	
13-Aug-05		16	10	24	20	16	10	11	15	17	12	25	39	17	13	16	19	22	28	25	24	11	9	19	19	39.1	
14-Aug-05		23	12	15	13	11	8	16	15	8	16	21	18	12	12	9	10	10	12	9	9	12	11	10	13	23.5	
15-Aug-05		8	13	15	17	16	15	16	11	16	13	18	22	36	24	36	15	13	15	15	10	9	12	10	9	35.9	
16-Aug-05		7	13	15	15	12	18	22	19	17	19	35	47	35	32	18	17	18	26	30	24	21	6	8	12	47.0	
17-Aug-05		5	6	5	8	9	13	11	10	10	23	32	22	24	39	21	25	11	13	16	17	15	17	12	15	38.9	
18-Aug-05		17	12	13	23	24	12	12	24	15	28	24	55	47	54	41	51	21	20	10	7	6	5	6	6	54.7	
19-Aug-05		6	8	12	20	23	28	10	29	70	19	54	26	26	29	68	45	67	31	12	9	8	33	16	8	69.7	
20-Aug-05		33	60	50	11	25	41	39	18	22	23	12	18	20	23	25	24	8	11	24	18	12	28	9	8	59.8	
21-Aug-05		7	5	7	15	11	16	19	17	9	8	12	17	13	16	26	39	20	10	16	10	9	25	6	5	38.6	
22-Aug-05		7	9	7	6	5	8	12	11	8	9	8	9	12	17	18	14	10	9	7	8	15	8	15	10	17.9	
23-Aug-05		12	15	15	22	13	12	22	10	10	17	32	51	53	23	23	15	15	50	10	13	19	11	13	25	53.2	
24-Aug-05		33	18	10	12	16	20	39	12	14	18	25	35	28	20	55	49	50	22	12	14	5	5	10	6	54.6	
25-Aug-05		12	10	14	10	4	6	11	17	18	17	18	27	30	39	32	28	23	18	27	14	9	19	10	24	39.4	
26-Aug-05		24	46	11	50	19	25	23	11	13	15	10	14	14	11	11	11	14	10	8	7	10	19	10	46	50.1	
27-Aug-05		41	40	23	34	23	22	37	27	25	24	33	43	36	56	66	55	22	16	18	9	7	9	7	13	65.7	
28-Aug-05		10	14	23	43	43	26	29	21	5	7	10	9	12	10	19	15	16	25	38	14	9	11	23	16	42.8	
29-Aug-05		11	12	10	11	9	11	7	7	8	7	9	10	11	9	8	9	12	16	25	14	13	9	12	10	24.7	
30-Aug-05		13	17	17	14	17	14	14	17	22	17	16	22	14	10	9	8	9	7	6	5	6	14	8	6	22.5	
31-Aug-05		7	9	6	6	6	6	6	8	8	6	8	10	10	11	8	9	8	7	8	8	7	16	18	17	18.4	
Hourly Max		42	60	50	50	45	51	42	55	70	50	55	55	53	56	68	55	67	50	38	39	21	33	33	46		

1-hr Average Wind Rose (in km/hr) Located at the Henry Pirker Site for August 2005



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range		Frequency (hrs)	
0.8	< 5	93	
5	to 10	391	
10	to 20	211	
20	to 30	48	
30	to 40	1	
	> 40	0	
Total Non-Zero Values			744

PASZA – Evergreen Park Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Evergreen Park Sulphur Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Station: Evergreen Park
 Station Owner: PASZA

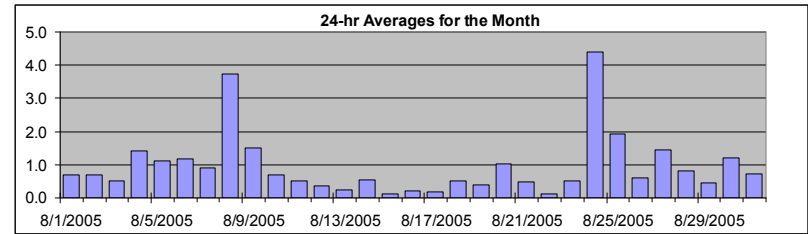
Monitoring Dates: August 1, 2005 to September 1, 2005

Objective Limit: Alberta Environment: 1-hr 172 ppb 24-hr 57 ppb

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	35.3 ppb	24-Aug	7:00	8:00
Maximum 24-hr Average:	4.4 ppb	24-Aug		

AIC Time:	33 hrs	Operational Time:	706 hrs					
Calibration Time:	3 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	10.2	3.7	0.9	0.3	0.0	0.0	0.0	0.9 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-Aug-05	0	0	A	1	1	0	0	0	0	0	0	1	0	1	1	2	2	3	3	0	0	0	0	0	0	0	0.7	3.4
2-Aug-05	0	A	0	0	0	0	0	0	0	0	0	8	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	8.4
3-Aug-05	A	0	0	0	0	0	0	0	0	0	4	3	0	0	0	0	0	0	0	0	0	0	1	1	A	0.5	4.2	
4-Aug-05	0	0	0	0	0	1	1	1	1	8	5	0	5	6	0	0	0	2	0	1	1	0	A	1	1	1.4	8.1	
5-Aug-05	1	1	0	0	0	0	1	2	2	3	6	0	0	0	3	3	0	0	0	0	0	0	A	1	1	1.1	5.6	
6-Aug-05	2	1	1	1	1	1	1	0	1	1	3	2	7	0	0	0	0	0	0	0	0	A	0	1	1	1.2	7.3	
7-Aug-05	1	1	1	1	1	1	2	2	2	1	1	0	0	0	0	0	0	0	0	0	A	1	2	2	1	0.9	2.0	
8-Aug-05	1	1	1	2	2	3	3	3	3	3	C	C	C	A	10	6	6	5	5	4	4	4	4	3	3	3.7	10.2	
9-Aug-05	3	2	2	2	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	15	6	2	1.5	14.7		
10-Aug-05	1	0	0	0	0	A	1	2	2	3	1	2	1	1	0	0	1	0	0	0	0	0	0	0	0	0.7	2.5	
11-Aug-05	0	0	0	0	A	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	0.5	1.2		
12-Aug-05	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0.4	1.2	
13-Aug-05	0	0	A	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.3	1.2	
14-Aug-05	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	1	0	0	0	0	0	0	0.5	5.9	
15-Aug-05	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.3	
16-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.5	
17-Aug-05	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	A	0	0	0.2	0.7	
18-Aug-05	0	0	0	0	0	0	0	0	0	1	1	2	2	0	0	0	1	2	1	0	0	A	0	0	0	0.5	2.3	
19-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	A	1	1	1	1	0.4	1.1	
20-Aug-05	1	1	0	1	1	1	1	1	1	1	4	5	1	1	1	1	0	0	A	0	0	0	0	1	1	1.0	4.8	
21-Aug-05	1	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	0	A	1	0	0	0	0	0	0	0.5	1.3	
22-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.1	0.5	
23-Aug-05	0	0	0	0	0	0	D	0	0	1	3	2	1	1	0	A	0	0	0	0	0	0	1	1	1	0.5	2.9	
24-Aug-05	0	0	0	0	0	0	0	0	35	34	3	7	15	3	1	A	1	0	0	0	0	0	0	0	0	4.4	35.3	
25-Aug-05	0	0	0	0	0	0	D	0	0	0	12	16	10	A	1	0	1	0	0	0	0	0	1	1	1	1.9	16.0	
26-Aug-05	0	0	0	0	0	0	1	1	1	1	0	1	A	0	0	0	1	1	1	1	1	1	1	1	1	0.6	1.4	
27-Aug-05	1	1	1	1	1	0	1	0	2	8	12	A	1	1	1	1	0	0	0	0	0	1	0	0	1	1.4	11.8	
28-Aug-05	1	0	0	0	0	0	0	1	1	6	A	3	1	3	0	1	0	0	1	0	0	0	0	0	0	0.8	6.2	
29-Aug-05	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0.5	1.4	
30-Aug-05	0	0	0	0	0	0	0	0	A	2	2	1	1	1	2	5	1	1	7	1	1	1	1	1	1	1.2	6.7	
31-Aug-05	0	0	0	1	0	0	1	A	0	0	2	3	0	0	4	2	3	0	0	0	0	0	0	0	0	0.7	4.1	
Hourly Avg	0.5	0.4	0.3	0.3	0.3	0.3	0.5	1.7	1.8	1.7	2.6	2.2	1.2	0.7	0.9	1.1	0.8	0.6	0.7	0.5	0.5	1.0	0.8	0.6				
Hourly Max	2.9	2.4	1.9	1.8	2.3	2.5	2.8	35.3	34.5	8.1	11.8	16.0	9.8	5.6	10.2	6.4	5.8	5.2	6.7	4.4	4.4	14.7	6.4	3.4				

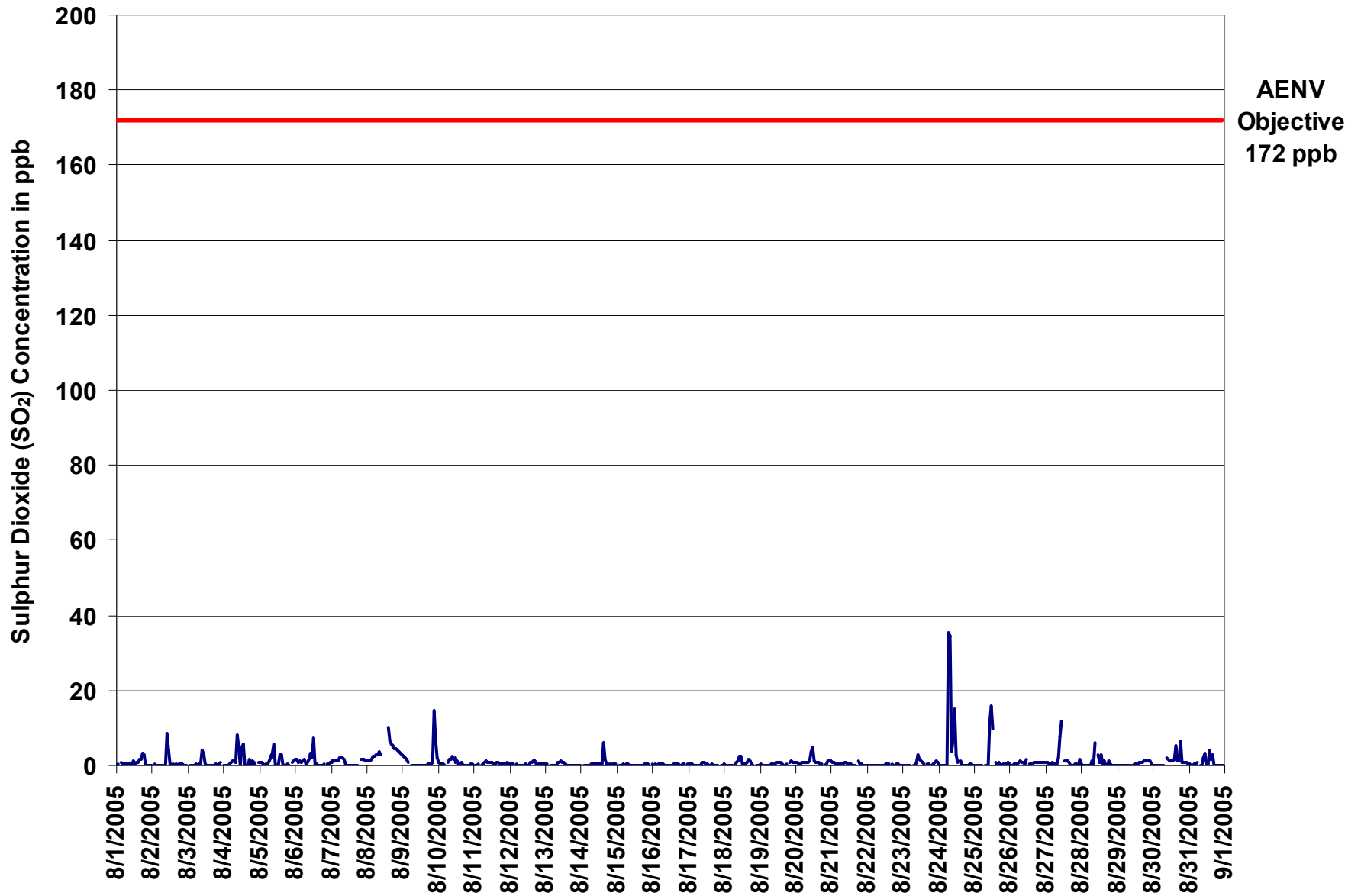


Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

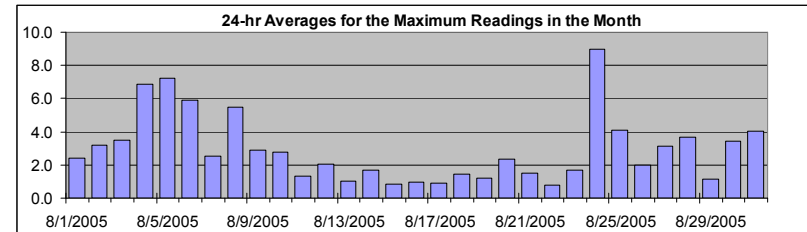
Sulphur Dioxide (SO₂)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	74.3	ppb	24-Aug	8:00 9:00
Maximum 24-hr Value:	9.0	ppb	24-Aug	

AIC Time:	33 hrs	Operational Time:	706 hrs					
Calibration Time:	3 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	25.7	13.1	2.2	1.3	0.8	0.2	0.0	2.9 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Aug-05	1	1	A	2	2	2	2	4	2	2	2	3	2	3	3	4	4	6	5	2	1	1	1	1	2.4	6.2
2-Aug-05	1	A	1	1	1	1	0	1	1	1	26	23	1	2	1	1	1	1	1	2	1	2	1	1	3.2	25.9
3-Aug-05	A	1	1	1	1	2	1	1	1	16	27	2	1	2	2	0	3	2	5	2	1	2	2	A	3.5	26.6
4-Aug-05	2	1	1	1	1	3	2	3	3	20	17	2	32	26	1	1	11	10	8	3	7	1	A	2	6.9	31.9
5-Aug-05	2	3	2	1	2	2	3	3	20	27	24	5	11	13	21	13	6	1	1	1	1	A	2	3	7.2	26.9
6-Aug-05	3	3	2	3	2	3	3	2	2	8	24	18	34	2	2	1	8	9	2	1	A	2	2	2	5.9	33.5
7-Aug-05	2	3	2	2	2	3	3	3	3	3	3	2	1	1	0	4	1	1	7	A	3	3	3	3	2.5	7.1
8-Aug-05	3	2	2	4	3	4	4	4	5	4	C	C	C	A	22	9	6	6	5	7	7	5	4	4	5.5	22.2
9-Aug-05	4	3	3	2	1	A	1	1	1	1	1	1	1	0	0	1	1	2	3	6	20	11	3	2.9	19.7	
10-Aug-05	1	1	1	1	1	A	2	3	4	8	3	7	1	5	1	1	15	1	0	0	0	1	6	1	2.8	14.6
11-Aug-05	1	0	1	1	A	1	1	1	2	1	2	1	3	1	1	1	1	2	1	1	2	1	1	1	1.3	3.4
12-Aug-05	1	1	1	A	1	1	1	1	1	1	1	1	1	3	8	1	5	11	1	3	1	1	2	1	2.1	10.6
13-Aug-05	1	1	A	1	0	0	0	1	4	2	7	2	2	2	1	0	1	0	0	0	0	0	0	0	1.0	7.3
14-Aug-05	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	13	5	2	1	1	1	1	1	1	1.7	12.8
15-Aug-05	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	A	0.8	1.2
16-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	A	1	1.0	1.5
17-Aug-05	1	1	1	1	0	0	0	1	1	1	1	1	2	1	1	1	2	1	0	1	1	A	1	1	0.9	1.7
18-Aug-05	1	1	1	0	0	0	0	0	1	2	7	6	1	1	1	2	3	2	1	1	A	1	1	1	1.4	6.5
19-Aug-05	1	2	0	1	1	0	0	1	1	1	1	2	2	3	2	1	1	1	1	A	2	2	2	2	1.2	2.7
20-Aug-05	2	1	1	1	2	2	2	2	2	10	12	3	2	2	2	1	1	1	A	1	1	1	2	2	2.3	11.5
21-Aug-05	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	A	5	2	2	1	1	1	1.5	5.2
22-Aug-05	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	3	A	1	1	1	1	1	1	1	0.8	2.8
23-Aug-05	1	0	0	0	0	0	D	0	1	4	10	4	2	1	1	A	3	1	1	1	1	2	2	1	1.7	9.7
24-Aug-05	1	0	0	0	0	0	3	62	74	6	13	18	9	2	A	11	1	2	1	1	1	1	1	1	9.0	74.3
25-Aug-05	1	0	0	0	0	0	D	0	0	2	18	25	13	A	5	1	9	6	1	2	1	1	2	1	4.1	25.4
26-Aug-05	1	1	1	1	1	1	2	2	1	3	1	8	A	1	1	1	1	2	9	1	2	1	2	2	2.0	9.4
27-Aug-05	2	1	1	1	1	1	1	1	5	18	21	A	2	2	2	2	1	0	1	1	2	1	1	4	3.1	21.4
28-Aug-05	4	1	1	1	0	1	1	3	2	13	A	14	7	15	2	10	1	1	6	1	1	1	1	1	3.7	14.7
29-Aug-05	1	1	1	0	1	0	1	1	1	A	1	1	1	1	1	2	2	2	2	2	2	2	2	1	1.1	2.1
30-Aug-05	1	0	0	0	0	0	0	A	3	2	2	5	2	8	21	2	2	23	2	2	1	1	2	3.4	22.8	
31-Aug-05	1	1	1	1	1	1	3	A	1	1	11	19	0	0	18	11	14	1	4	1	1	2	0	1	4.0	18.5
Hourly Avg	1.5	1.2	1.0	1.1	1.0	1.1	1.4	3.5	4.7	5.2	8.1	6.3	4.8	3.3	3.8	3.9	3.7	2.5	3.3	1.5	1.8	2.0	1.9	1.6		
Hourly Max	3.7	3.0	2.6	3.7	3.2	3.8	3.9	62.1	74.3	26.9	26.6	25.4	33.5	25.7	22.2	20.8	14.6	10.6	22.8	6.6	6.7	19.7	10.5	4.4		

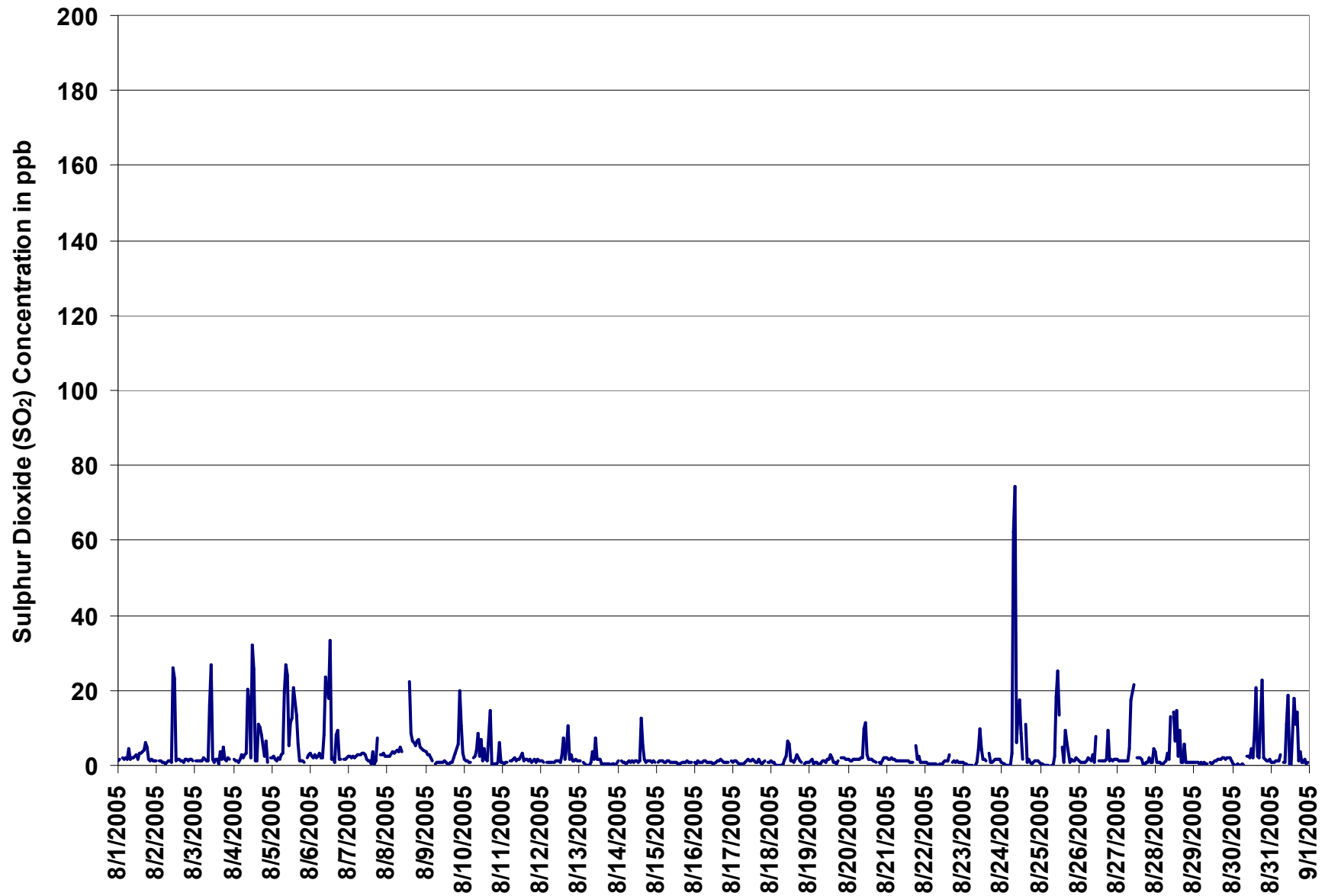
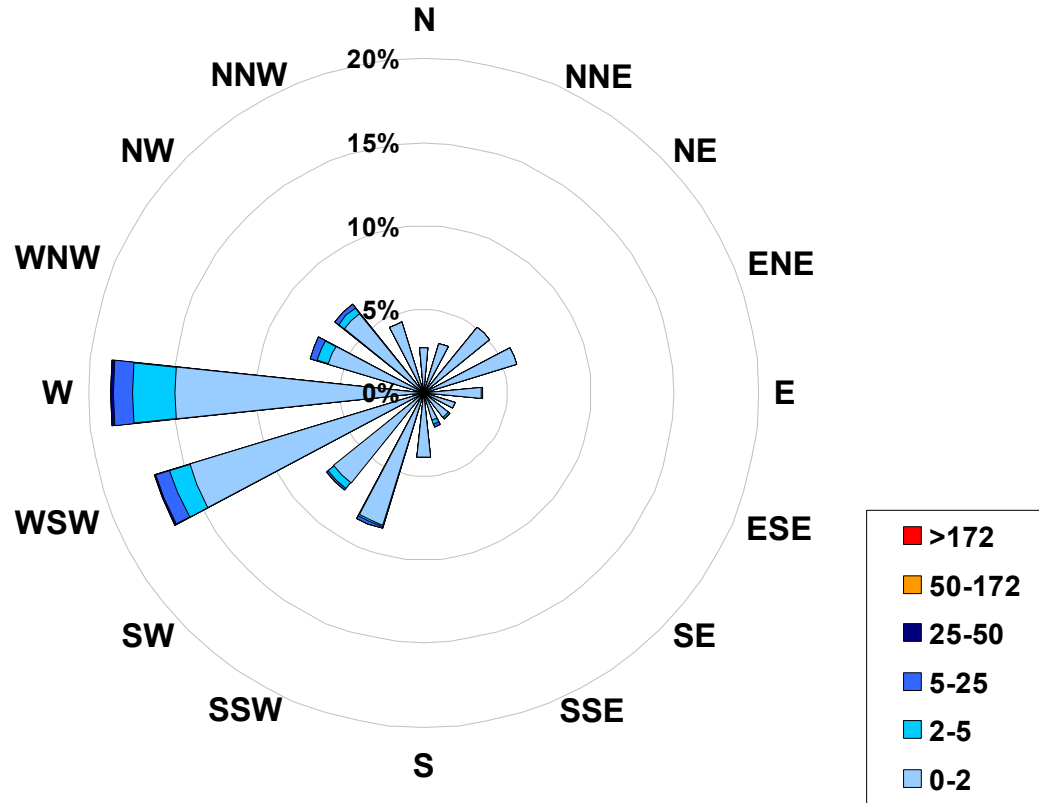


Figure 21. PASZA - Evergreen Park Sulphur Dioxide 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Evergreen Park Site for August 2005



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2		639
2	to 5		43
5	to 25		22
25	to 50		2
50	to 172		0
	> 172		0
Total Non-Zero Values			706

PASZA - Evergreen Park Total Reduced Sulphur Monthly Summary

HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

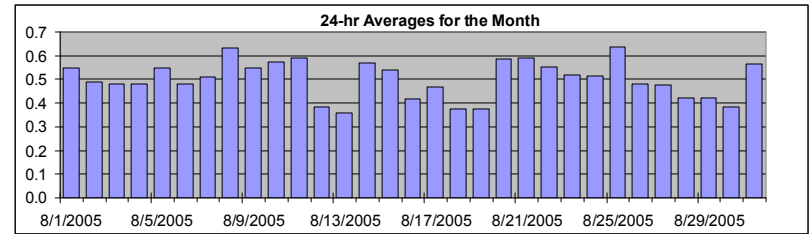
Station: Evergreen Park
 Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

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

Maximum 1-hr Average:	1.5	ppb	11-Aug	22:00 23:00
Maximum 24-hr Value:	0.6	ppb	25-Aug	

AIC Time:	33 hrs	Operational Time:	708 hrs					
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.5 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 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-Aug-05	1	1	A	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	0	0	0	0	0	0.5	0.7
2-Aug-05	0	A	1	1	0	0	1	1	0	0	0	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0.5	0.6
3-Aug-05	A	0	0	0	0	1	1	0	0	1	1	1	1	0	1	0	0	0	0	0	1	1	0	A	0.5	0.5	
4-Aug-05	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	A	0	0.5	0.6	
5-Aug-05	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.5	0.7	
6-Aug-05	0	0	1	1	0	0	0	0	1	0	1	0	1	1	0	0	0	0	0	0	A	0	1	0	0.5	0.6	
7-Aug-05	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0	1	0.5	0.7	
8-Aug-05	1	1	1	1	1	1	1	1	1	0	C	C	C	A	1	1	1	1	1	1	1	1	1	1	0.6	0.8	
9-Aug-05	1	1	1	1	1	A	1	0	1	1	1	0	1	1	0	0	0	0	0	1	0	0	1	1	0.5	0.8	
10-Aug-05	1	1	1	1	0	A	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	1	1	0.6	0.9	
11-Aug-05	1	0	0	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	2	1	0.6	1.5	
12-Aug-05	1	1	1	A	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6	
13-Aug-05	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0.4	0.6	
14-Aug-05	0	A	1	0	0	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7	
15-Aug-05	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	0	0	0	A	0.5	0.7	
16-Aug-05	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.4	0.5	
17-Aug-05	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.5	1.0	
18-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.4	0.5	
19-Aug-05	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.4	0.7	
20-Aug-05	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	A	1	0	1	1	1	0.6	1.2	
21-Aug-05	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.6	0.8	
22-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	A	0	1	0	0	1	0	1	0.6	0.7	
23-Aug-05	1	1	0	0	0	0	0	1	0	1	1	1	1	1	0	A	0	0	1	1	1	1	1	1	0.5	0.7	
24-Aug-05	0	0	1	1	0	0	0	1	1	1	1	1	1	1	0	A	1	1	0	0	1	1	0	1	0.5	0.6	
25-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0.6	0.8	
26-Aug-05	1	1	1	1	1	1	1	1	1	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0.5	0.6	
27-Aug-05	0	0	0	0	0	0	0	0	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.2	
28-Aug-05	1	1	0	0	0	0	1	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8	
29-Aug-05	0	0	0	0	0	0	0	0	0	0	A	0	0	1	1	0	0	1	0	0	0	0	0	0	0.4	0.5	
30-Aug-05	0	0	0	0	0	0	0	0	A	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0.4	0.5	
31-Aug-05	0	0	0	0	0	0	1	A	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0.6	0.8	
Hourly Avg	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5			
Hourly Max	0.8	0.7	0.8	0.7	0.7	1.0	0.9	0.8	0.7	0.8	1.2	0.7	0.6	0.6	0.8	0.7	0.7	0.7	0.7	0.8	0.7	0.8	0.9	1.5	0.9		

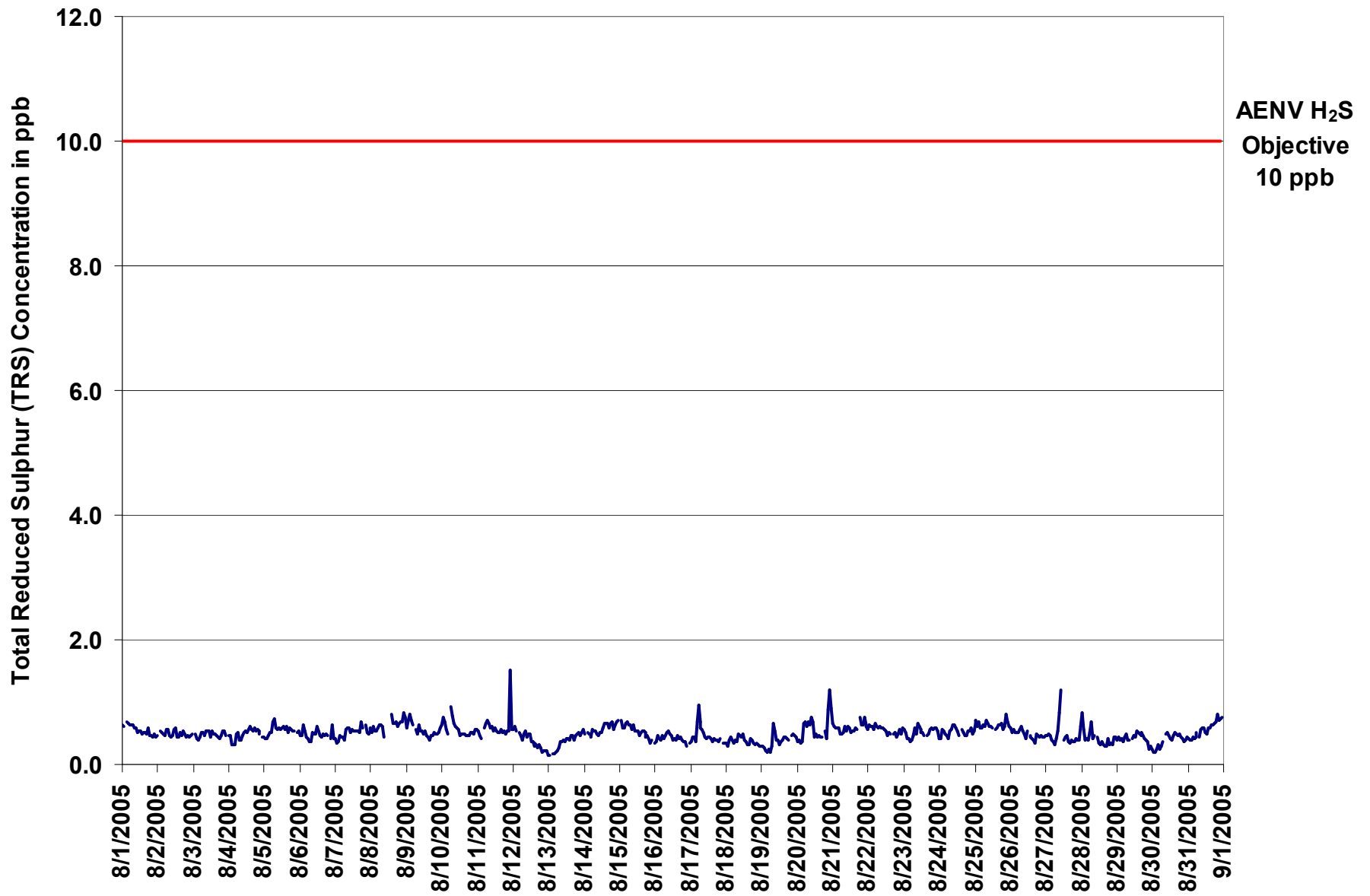


Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

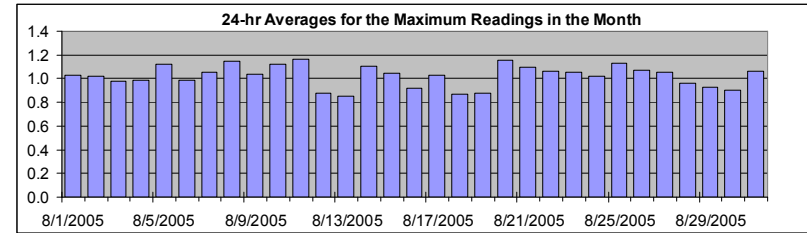
Total Reduced Sulphur (TRS)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	3.1	ppb	11-Aug	22:00 23:00
Maximum 24-hr Value:	1.2	ppb	11-Aug	

AIC Time:	33 hrs	Operational Time:	708 hrs					
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	1.9	1.3	1.1	1.0	0.9	0.8	0.7	1.0 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Aug-05	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.4
2-Aug-05	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.2
3-Aug-05	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.0	1.2	
4-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.0	1.3	
5-Aug-05	1	1	1	1	1	1	1	2	1	1	1	1	2	1	1	1	1	1	1	1	1	A	1	1	1.1	2.2	
6-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1.0	1.3	
7-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	2	1.1	1.8	
8-Aug-05	1	1	1	1	1	1	1	1	1	1	C	C	C	A	1	1	1	1	1	1	1	1	1	1	1.1	1.5	
9-Aug-05	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.4	
10-Aug-05	1	1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1.1	2.4	
11-Aug-05	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1.2	3.1	
12-Aug-05	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2	
13-Aug-05	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.2	
14-Aug-05	1	A	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1.1	1.9	
15-Aug-05	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.0	1.3	
16-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.9	1.1	
17-Aug-05	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.0	1.7	
18-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.9	1.0	
19-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.9	1.2	
20-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	2	2	1	1.2	2.3	
21-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1.1	1.3	
22-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1.1	1.2	
23-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1.1	1.3	
24-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1.0	1.3	
25-Aug-05	1	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1.1	1.5	
26-Aug-05	1	1	1	1	1	1	1	1	1	1	1	2	A	1	1	1	1	1	3	1	1	1	1	1	1.1	2.6	
27-Aug-05	1	1	1	1	1	1	1	1	1	2	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.1	
28-Aug-05	2	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.6	
29-Aug-05	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2	
30-Aug-05	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.3	
31-Aug-05	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.4	
Hourly Avg	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0	1.1	1.2	1.1				
Hourly Max	1.6	1.5	1.4	1.4	1.5	1.6	1.7	1.6	1.3	1.8	2.1	1.7	2.2	1.2	1.2	1.9	1.2	1.3	2.6	1.5	1.4	2.3	3.1	1.8			

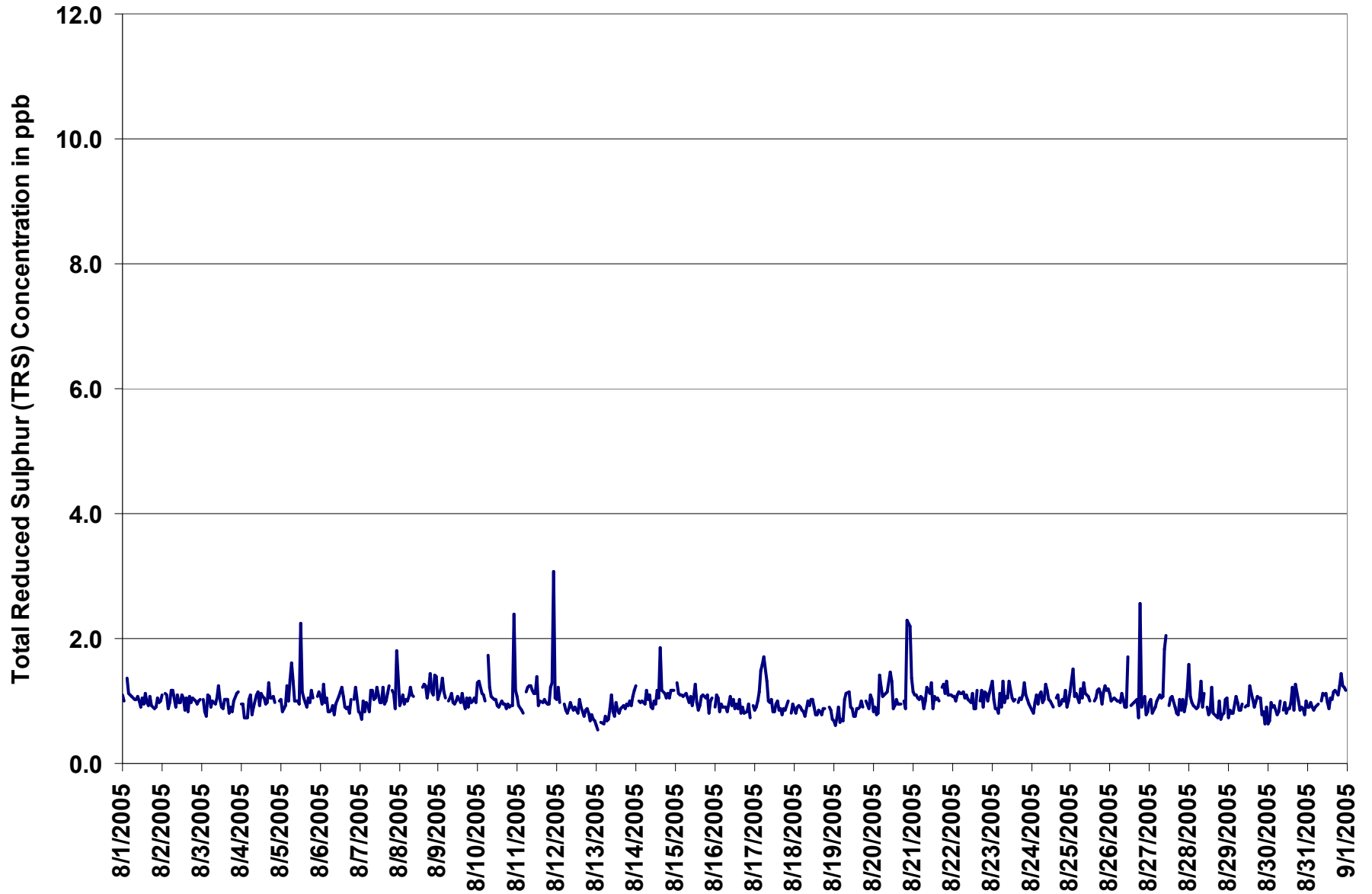
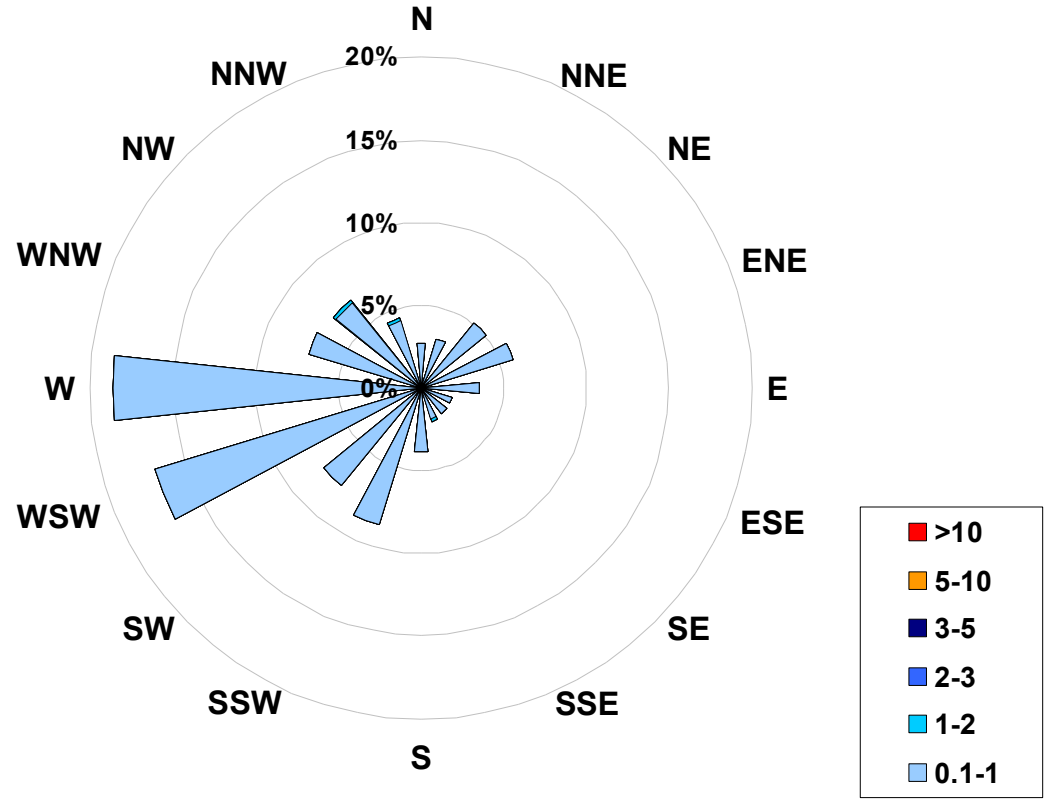


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
 Located at the Evergreen Park Site for August 2005**



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	705
1	to	2	3
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			708

PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

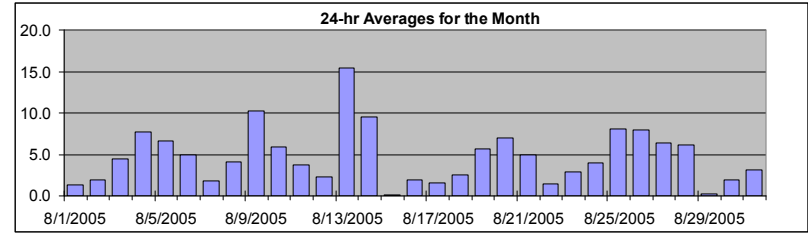
Particulate Matter (PM_{2.5})

Monitoring Dates: August 1, 2005 to September 1, 2005

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:	27.1	µg/m ³	13-Aug	16:00 17:00
Maximum 24-hr Value:	15.4	µg/m ³	13-Aug	

AIC Time:	0 hrs	Operational Time:	735 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	99.1%						
Percentile	99	95	75	50	25	5	1	Average	Geomean
	23.2	13.7	7.1	3.4	0.8	0.0	0.0	4.7 µg/m ³	3.3 µg/m ³



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00
1-Aug-05	0	0	0	0	0	6	5	8	1	0	D	0	D	0	0	1	1	0	2	2	1	0	0	1.3	7.8		
2-Aug-05	0	0	1	3	0	0	3	1	1	1	9	8	2	0	2	4	1	3	3	0	0	0	1	1.9	9.4		
3-Aug-05	0	0	1	1	1	4	11	3	5	8	6	1	0	1	2	3	4	5	16	3	9	12	7	4	4.5	15.8	
4-Aug-05	6	5	5	3	4	7	14	6	6	9	14	5	16	12	6	6	9	10	5	7	9	8	6	5	7.7	16.0	
5-Aug-05	5	3	2	4	3	2	11	8	7	16	13	10	8	6	7	5	10	9	7	6	5	6	5	4	6.7	16.2	
6-Aug-05	5	5	2	3	7	9	8	5	4	8	8	5	14	3	8	2	10	7	1	0	0	D	0	0	5.0	14.4	
7-Aug-05	0	0	0	0	0	1	12	0	4	1	1	0	0	0	0	0	0	3	1	7	5	3	1	3	1.8	11.6	
8-Aug-05	0	0	0	1	0	1	2	3	5	2	5	C	C	0	3	1	6	3	4	6	13	11	11	11	4.1	12.9	
9-Aug-05	11	11	13	14	13	12	12	12	11	9	10	10	10	6	6	6	6	6	10	13	9	12	15	12	10.2	14.7	
10-Aug-05	7	6	5	4	4	5	11	10	7	10	5	5	6	2	5	4	6	3	2	3	13	6	6	7	5.9	13.0	
11-Aug-05	4	2	2	3	4	4	6	9	7	5	4	0	6	4	6	5	2	0	0	0	4	4	4	3	3.7	8.6	
12-Aug-05	2	3	0	0	1	0	3	0	0	0	0	2	1	0	2	0	3	4	2	3	4	7	13	6	2.3	12.7	
13-Aug-05	2	1	1	1	1	1	3	8	11	14	20	21	20	23	24	26	27	26	27	24	23	22	22	21	15.4	27.1	
14-Aug-05	20	19	18	17	15	16	15	17	10	11	11	9	9	9	8	8	7	4	6	2	0	0	1	0	9.6	20.0	
15-Aug-05	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0.2	1.4	
16-Aug-05	0	0	0	0	0	1	1	2	1	1	1	2	2	2	2	3	3	4	2	4	4	3	4	3	2.0	4.4	
17-Aug-05	1	0	0	1	3	2	4	6	4	1	1	1	0	0	0	0	1	0	3	5	0	2	2	1.5	6.2		
18-Aug-05	5	5	3	1	2	3	5	3	6	2	0	0	2	2	2	3	3	3	2	3	3	1	1	1	2.6	5.9	
19-Aug-05	1	0	0	1	1	2	2	5	5	9	10	9	10	7	6	6	6	6	6	9	11	13	7	5	5.6	12.8	
20-Aug-05	4	7	6	7	9	11	11	10	7	8	8	7	3	6	8	7	D	3	4	9	8	10	4	4	7.0	11.4	
21-Aug-05	4	0	0	6	5	5	5	7	9	7	8	11	8	6	4	8	8	10	3	D	0	0	0	0	4.9	10.9	
22-Aug-05	0	0	0	0	0	1	2	1	1	1	0	2	0	0	1	4	5	4	3	2	2	2	3	0	1.4	4.6	
23-Aug-05	0	0	0	0	0	4	9	10	5	3	3	1	5	5	3	5	3	2	0	2	1	1	3	2.8	9.6		
24-Aug-05	3	1	2	3	1	1	4	18	9	1	8	4	0	0	2	1	2	2	2	6	7	8	6	4	3.9	17.9	
25-Aug-05	5	7	6	6	4	5	9	17	0	4	7	14	8	7	8	5	6	5	9	10	25	13	9	6	8.1	25.5	
26-Aug-05	6	8	7	6	5	5	13	22	7	10	10	8	7	13	14	6	8	8	9	4	5	2	4	4	7.9	22.2	
27-Aug-05	3	0	1	3	3	2	4	9	4	8	12	12	8	11	3	6	4	5	11	10	5	12	7	8	6.3	12.0	
28-Aug-05	12	10	9	8	7	7	14	15	6	21	0	8	0	8	0	2	0	5	0	7	D	0	0	1	6.1	21.2	
29-Aug-05	0	0	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0.2	1.4	
30-Aug-05	0	2	0	0	0	0	0	7	0	2	3	2	1	4	0	8	0	2	15	0	0	0	0	0	2.0	14.9	
31-Aug-05	0	0	0	0	0	1	3	3	2	1	5	8	2	4	14	6	11	3	2	5	3	2	1	1	3.1	13.6	
Hourly Avg	3.5	3.1	2.9	3.1	3.0	3.8	6.5	7.2	4.7	5.6	6.1	5.5	5.0	4.6	4.7	4.5	5.0	4.7	5.1	5.0	5.8	5.2	4.5	3.8			
Hourly Max	20.0	18.8	18.5	16.6	14.9	16.3	14.5	22.2	10.8	21.2	19.6	20.6	20.3	23.3	24.5	26.1	27.1	26.3	26.7	23.9	25.5	22.1	22.1	20.9			

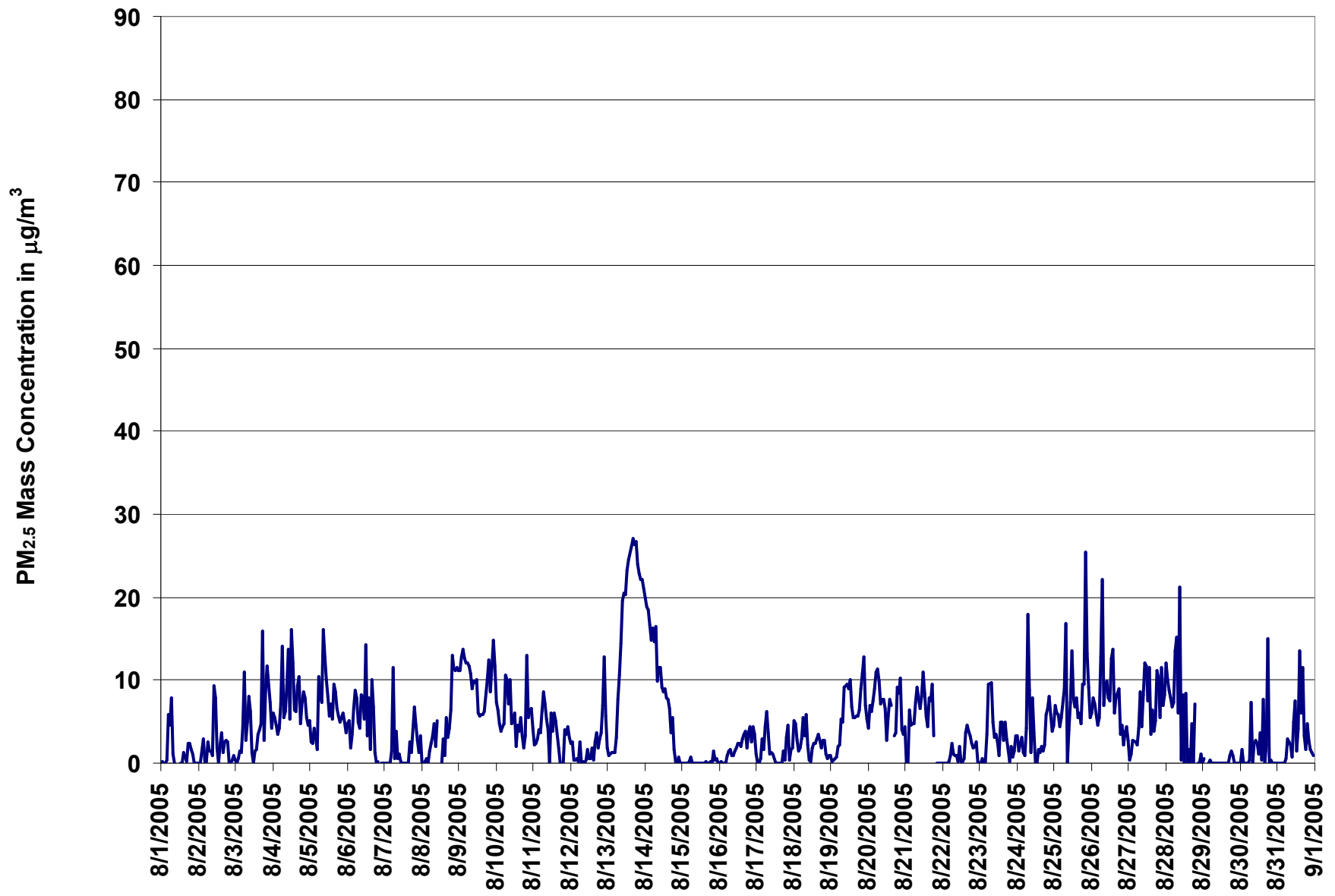


Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

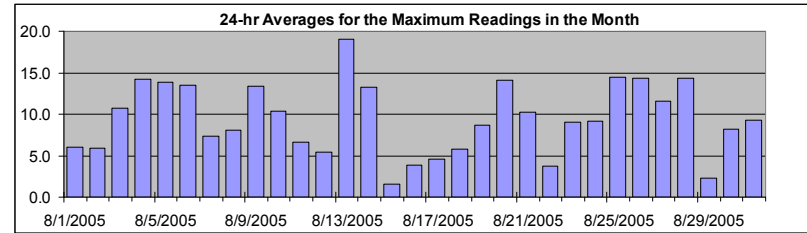
Particulate Matter (PM_{2.5})

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	57.9	µg/m ³	30-Aug	18:00 19:00
Maximum 24-hr Value:	19.0	µg/m ³	13-Aug	

AIC Time:	0 hrs	Operational Time:	735 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	99.1%						
Percentile	99	95	75	50	25	5	1	Average	Geomean
	32.0	24.3	13.0	7.4	3.8	1.1	0.3	9.5 µg/m ³	8.3 µg/m ³



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start 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-Aug-05	2	4	3	4	5	10	9	12	18	4	D	7	D	2	3	6	10	4	6	8	8	8	2	1	6.1	17.6
2-Aug-05	2	1	6	7	2	2	5	3	3	3	18	15	5	5	6	15	13	10	8	7	1	1	2	2	5.9	18.1
3-Aug-05	2	2	4	5	8	8	19	9	8	16	18	7	7	6	7	10	9	9	37	13	15	23	10	6	10.7	37.3
4-Aug-05	8	8	7	6	6	12	22	22	11	20	24	11	23	21	16	14	16	18	10	12	16	19	11	9	14.3	24.4
5-Aug-05	9	8	5	7	7	7	19	18	20	30	26	14	14	17	23	17	15	12	14	13	11	10	12	5	13.9	30.1
6-Aug-05	8	11	4	5	9	11	11	16	9	23	17	19	29	11	14	14	37	40	8	7	4	D	1	1	13.4	40.2
7-Aug-05	3	2	2	2	4	6	24	6	6	5	5	7	3	1	3	7	5	8	8	25	13	7	12	13	7.4	25.1
8-Aug-05	9	3	3	3	1	4	5	6	8	6	11	C	C	5	19	8	7	7	5	12	15	13	13	13	8.1	19.3
9-Aug-05	12	13	14	15	14	13	14	14	13	12	12	11	15	8	8	9	7	10	11	25	11	15	26	20	13.4	26.1
10-Aug-05	8	8	7	5	7	8	15	16	11	22	8	12	8	6	7	9	13	7	3	6	23	12	16	14	10.4	23.5
11-Aug-05	7	5	5	5	7	7	8	12	9	7	6	3	10	7	9	12	4	1	2	1	14	6	6	5	6.6	14.0
12-Aug-05	4	5	2	2	4	2	4	5	2	2	3	4	3	2	6	3	8	10	4	6	6	11	23	9	5.4	22.9
13-Aug-05	4	2	2	3	3	3	5	13	18	20	30	24	24	31	31	30	30	28	28	28	26	24	25	23	19.0	31.4
14-Aug-05	23	20	20	19	18	18	18	21	16	15	15	14	12	12	12	27	9	7	8	6	2	1	3	1	13.2	26.8
15-Aug-05	1	0	1	1	1	2	2	1	0	2	1	1	1	2	2	2	1	2	2	2	4	3	2	2	1.5	4.0
16-Aug-05	2	2	1	3	1	2	3	3	2	3	3	4	5	5	5	4	6	7	4	6	7	4	6	6	3.9	6.7
17-Aug-05	4	0	0	4	6	3	9	9	7	3	4	4	3	5	4	6	5	4	4	7	8	1	3	6	4.5	9.0
18-Aug-05	11	10	4	2	3	6	11	10	13	4	4	5	5	6	6	5	6	6	4	5	4	3	3	3	5.8	12.7
19-Aug-05	2	1	2	2	2	4	3	10	9	12	12	14	17	11	8	7	12	10	11	11	16	14	11	7	8.7	16.7
20-Aug-05	7	9	8	10	15	15	20	19	16	22	15	16	9	14	14	13	D	14	18	21	17	15	10	6	14.1	22.4
21-Aug-05	12	1	2	12	13	8	9	12	14	10	10	16	15	12	9	13	11	28	25	D	3	0	1	0	10.3	28.2
22-Aug-05	0	2	0	1	1	4	4	2	3	2	4	6	3	3	4	8	9	7	5	5	4	3	5	2	3.7	9.4
23-Aug-05	1	1	2	1	2	7	23	20	9	11	13	6	7	20	15	18	14	10	8	4	7	6	4	7	9.0	22.7
24-Aug-05	5	4	10	6	4	6	13	23	14	5	24	7	9	5	5	13	9	6	6	9	9	12	8	7	9.1	23.8
25-Aug-05	7	9	7	7	6	8	15	29	4	7	11	20	14	13	14	10	9	11	32	26	48	21	12	7	14.5	47.7
26-Aug-05	9	11	12	8	7	8	23	34	18	15	13	19	19	22	32	10	17	14	16	7	7	4	9	9	14.4	34.2
27-Aug-05	5	3	3	5	5	4	9	16	8	12	16	16	14	18	17	14	13	10	20	17	8	20	11	13	11.5	20.1
28-Aug-05	17	12	12	11	10	12	20	21	14	32	20	32	13	23	11	10	7	24	7	17	D	1	4	4	14.4	31.7
29-Aug-05	3	3	D	2	2	3	3	1	2	1	2	2	3	2	5	3	1	4	4	5	3	0	0	1	2.3	4.6
30-Aug-05	2	4	2	2	2	1	3	14	8	5	7	6	8	14	12	30	3	7	58	2	3	1	2	0	8.2	57.9
31-Aug-05	1	1	0	1	1	2	6	5	4	3	18	37	5	7	26	25	27	15	11	11	7	6	3	4	9.3	36.6
Hourly Avg	6.1	5.3	5.1	5.3	5.7	6.5	11.4	13.0	9.6	10.8	12.3	12.0	10.4	10.2	11.4	11.9	11.1	11.3	12.5	10.8	10.7	8.8	8.3	6.7		
Hourly Max	22.7	20.4	19.8	18.8	18.5	17.8	24.3	34.2	20.4	31.7	29.8	36.6	29.1	31.2	32.1	29.7	37.4	40.2	57.9	28.0	47.7	24.0	26.1	23.3		

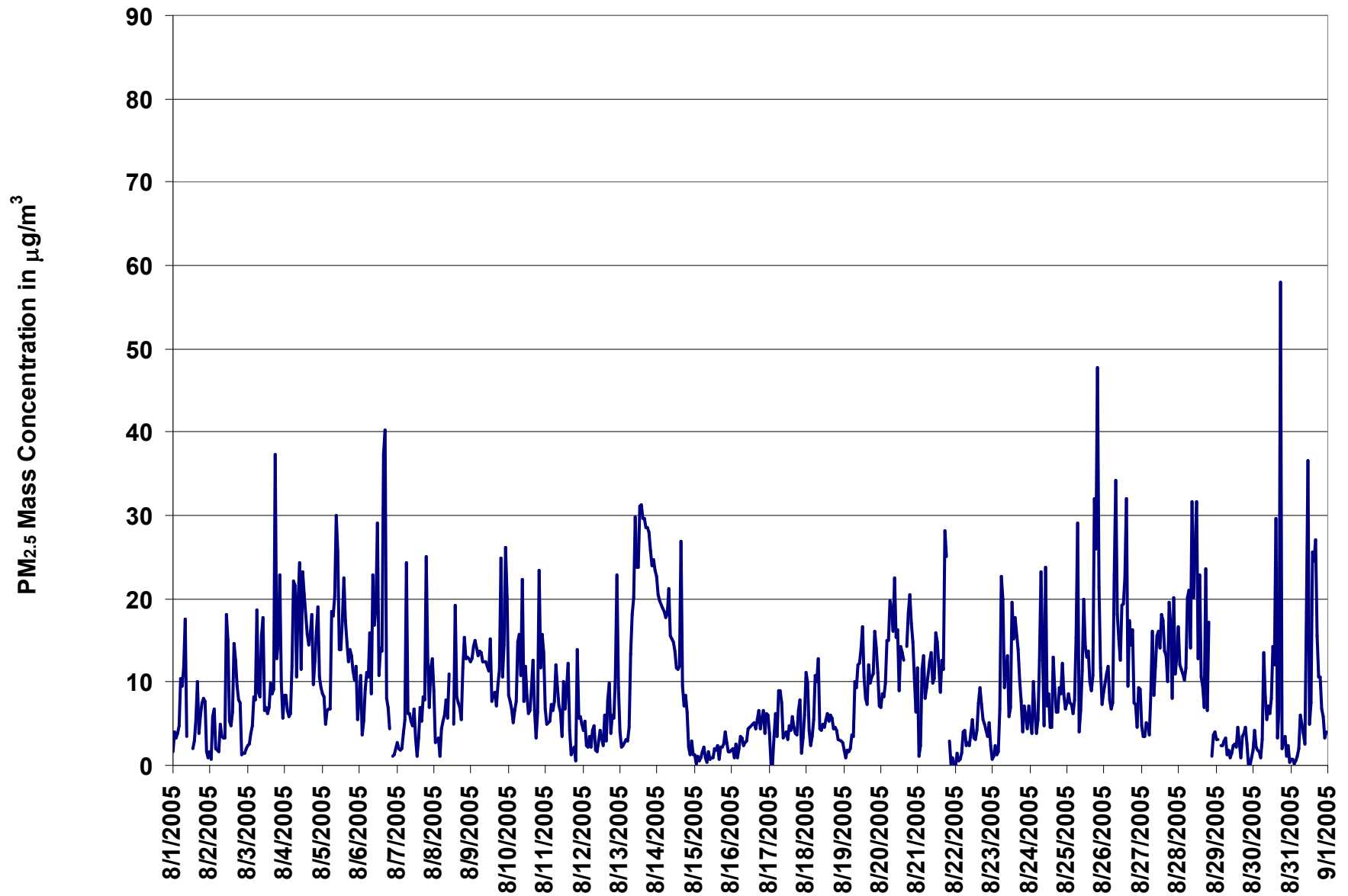
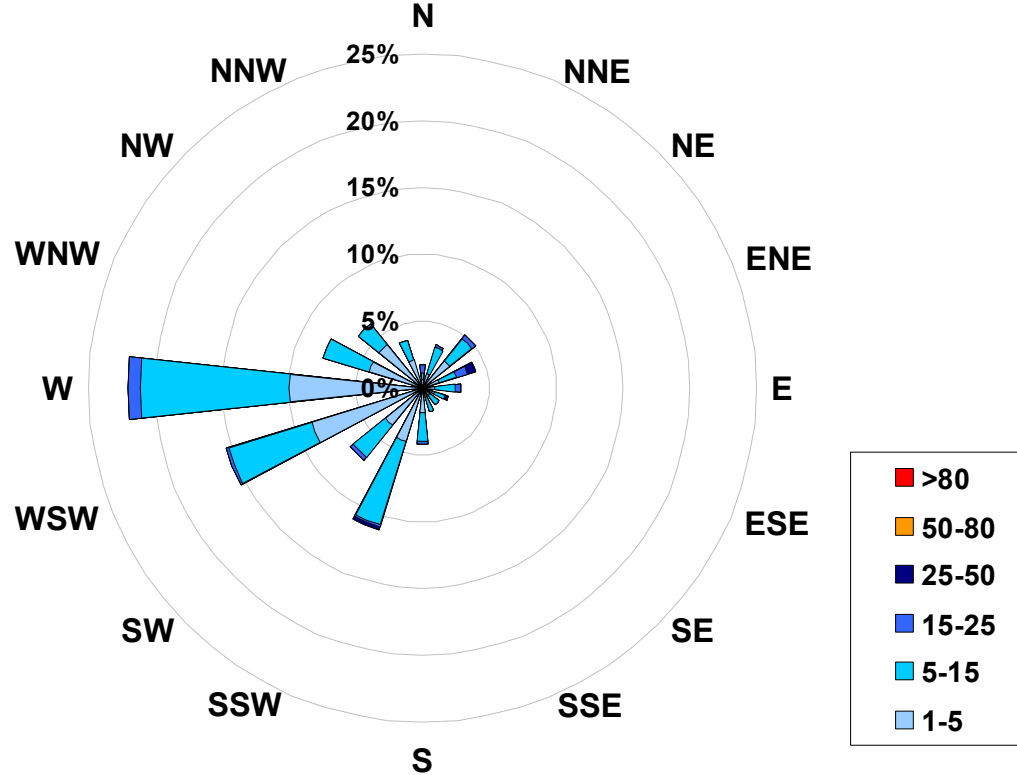


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Evergreen Park Site for August 2005



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	458
5	to	15	248
15	to	25	24
25	to	50	5
50	to	80	0
	>	80	0
Total Non-Zero Values			735

PASZA - Evergreen Park Temperature Monthly Summary

HOURLY AVERAGE TABLE

Ambient Temperature (T)

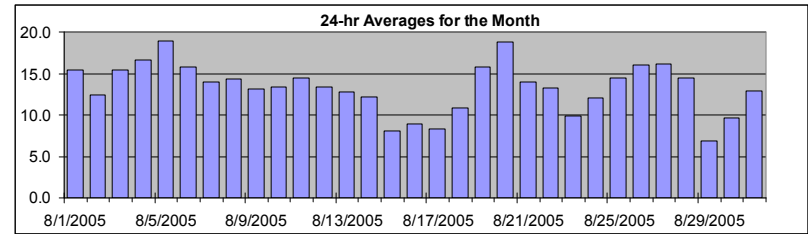
Station: Evergreen Park
 Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	27.1 °C	19-Aug	16:00 17:00
Maximum 24-hr Value:	18.9 °C	5-Aug	

AIC Time:	0 hrs	Operational Time:	744 hrs					
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	26.3	23.3	17.0	13.0	9.4	4.4	1.8	13.3 °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 Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00			22:00 23:00
1-Aug-05	13	12	12	11	11	11	12	13	15	15	18	18	19	18	20	20	20	20	19	18	16	14	13	12	15.4	20.2
2-Aug-05	11	11	10	10	10	11	11	12	13	15	13	13	15	16	14	15	12	13	14	13	12	11	11	12.4	15.9	
3-Aug-05	10	9	7	7	6	5	8	12	14	16	18	20	21	22	22	23	24	24	22	22	19	15	12	11	15.4	23.7
4-Aug-05	10	9	8	7	7	7	8	11	13	17	20	22	22	23	23	23	24	25	25	24	21	18	16	14	16.6	24.8
5-Aug-05	13	14	16	15	15	15	16	18	19	21	21	22	22	22	23	23	23	23	22	20	20	18	17	17	18.9	23.5
6-Aug-05	15	13	11	10	9	9	12	14	16	18	21	22	23	21	21	21	20	15	16	17	16	14	13	11	15.7	22.5
7-Aug-05	10	8	7	7	6	5	8	11	13	15	16	17	18	19	20	21	21	20	20	18	16	14	14	12	14.0	20.6
8-Aug-05	13	12	11	10	10	10	11	11	12	13	15	16	17	17	19	19	20	20	20	19	15	12	12	12	14.3	19.8
9-Aug-05	11	13	13	13	13	12	11	12	13	14	13	14	15	16	15	16	15	14	13	13	12	12	11	10	13.1	15.7
10-Aug-05	9	9	9	7	6	6	6	9	11	13	14	16	17	17	17	19	19	19	19	18	16	15	15	14	13.4	19.0
11-Aug-05	14	13	13	12	12	12	12	12	13	14	16	17	16	16	16	17	18	18	18	17	15	13	12	11	14.5	18.2
12-Aug-05	11	11	10	10	8	6	7	10	11	13	15	16	17	18	18	19	19	20	20	19	14	11	9	8	13.4	19.8
13-Aug-05	7	6	6	5	5	5	5	8	11	14	17	19	21	20	19	17	16	17	16	16	15	14	14	14	12.7	21.1
14-Aug-05	13	13	13	13	12	12	12	12	14	14	14	14	14	13	13	13	13	13	12	12	10	9	8	8	12.1	13.8
15-Aug-05	7	7	7	7	6	6	7	7	7	8	8	9	10	10	10	10	9	10	10	9	9	8	8	8	8.1	10.3
16-Aug-05	7	7	7	7	7	7	7	7	8	9	9	10	10	11	11	11	11	11	11	10	9	9	9	8	8.9	11.1
17-Aug-05	8	7	5	4	4	3	4	4	6	8	9	11	11	12	13	14	14	13	14	12	8	6	4	3	8.3	14.0
18-Aug-05	3	4	4	3	3	3	3	6	8	11	13	15	16	17	18	19	20	19	19	16	13	10	9	8	10.9	19.7
19-Aug-05	7	6	5	5	4	4	5	7	12	16	19	21	23	25	26	26	27	27	26	23	19	17	15	14	15.8	27.1
20-Aug-05	13	13	13	14	14	14	14	15	17	20	20	22	23	24	25	25	25	24	24	22	17	17	17	18	18.7	24.9
21-Aug-05	16	16	15	15	13	12	12	13	14	14	14	14	14	14	15	16	17	16	14	13	13	12	12	11	13.9	16.5
22-Aug-05	10	11	10	10	10	9	10	11	12	13	15	16	17	18	18	18	17	17	16	15	13	12	10	10	13.3	18.5
23-Aug-05	9	5	5	4	3	2	3	7	9	12	14	16	17	16	14	16	15	12	14	13	10	9	8	7	9.8	17.1
24-Aug-05	5	4	5	6	5	4	3	6	9	12	15	17	19	20	20	21	21	22	21	18	12	9	8	6	12.0	21.5
25-Aug-05	5	4	4	3	2	2	2	7	11	15	18	20	22	24	25	26	27	27	27	23	16	14	13	11	14.5	27.0
26-Aug-05	10	9	8	7	6	6	7	11	14	17	19	21	23	24	24	24	24	23	22	21	19	18	16	11	16.1	24.2
27-Aug-05	9	8	7	6	5	4	5	9	13	15	18	21	23	24	26	27	27	26	24	21	19	17	16	16	16.1	26.7
28-Aug-05	16	14	13	12	11	11	11	14	15	15	15	16	18	17	17	19	19	17	18	15	12	11	11	11	14.5	18.9
29-Aug-05	10	11	11	10	9	8	7	6	5	5	6	6	6	5	6	6	7	8	8	6	6	5	3	2	6.9	10.8
30-Aug-05	1	1	2	1	2	1	1	4	7	11	13	15	17	16	16	17	17	17	17	14	11	8	10	10	9.6	17.5
31-Aug-05	10	10	10	11	11	10	10	11	11	12	15	16	17	18	18	18	17	16	16	14	11	10	9	8	12.8	17.9
Hourly Avg	9.9	9.3	8.9	8.4	8.0	7.6	8.1	10.0	11.8	13.6	15.3	16.6	17.4	17.8	18.2	18.6	18.7	18.2	17.8	16.6	14.1	12.4	11.4	10.6		
Hourly Max	16.4	16.1	16.0	15.3	15.1	15.0	15.9	17.6	19.0	20.5	21.1	22.4	23.5	24.6	25.7	26.7	27.1	27.1	27.0	23.6	21.2	18.2	17.1	17.6		

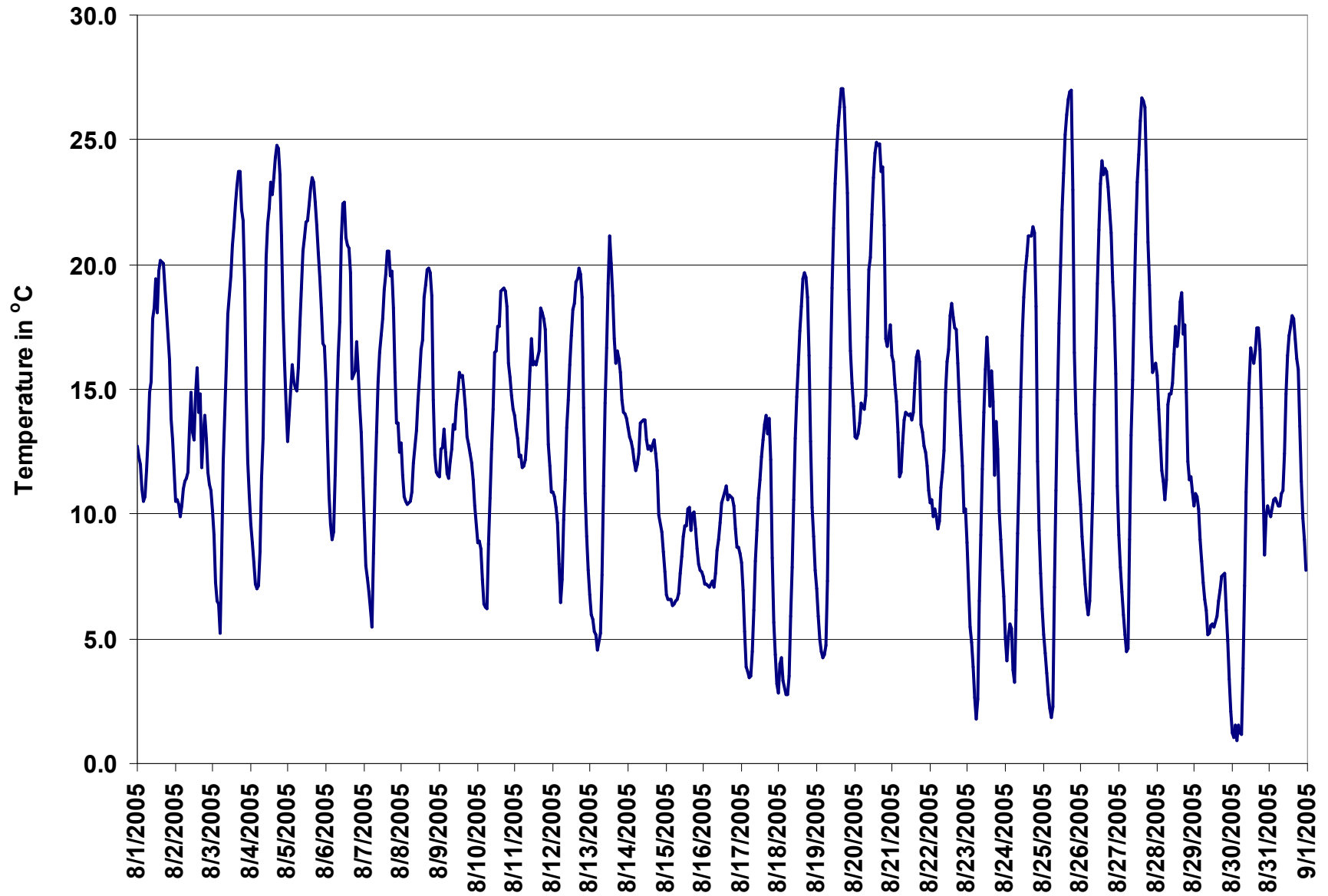


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

PASZA - Evergreen Park Scalar Wind Speed Monthly Summary

HOURLY AVERAGE TABLE

Wind Speed (WSs)

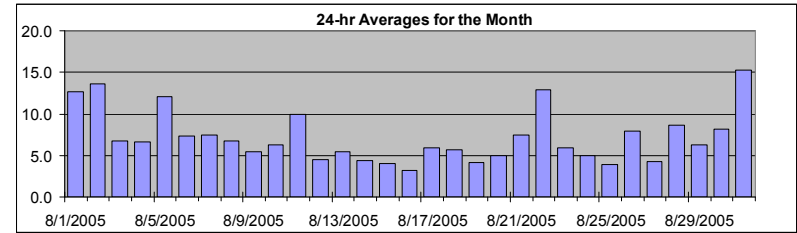
Station: Evergreen Park
Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	24.3	km/hr	31-Aug	13:00 14:00
Maximum 24-hr Value:	15.3	km/hr	31-Aug	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	22.0	17.4	9.3	5.9	3.8	1.9	1.3	7.2 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 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-Aug-05	3	3	4	3	6	8	7	11	7	11	17	14	18	16	19	22	21	20	20	23	14	10	13	13	12.6	22.5
2-Aug-05	11	13	12	12	16	18	19	20	14	17	20	12	10	16	18	12	10	11	9	12	14	11	11	7	13.6	20.0
3-Aug-05	5	4	3	3	3	3	4	7	11	13	11	12	12	11	11	10	9	7	3	3	3	5	4	3	6.8	13.3
4-Aug-05	2	3	2	3	3	4	5	6	6	8	9	9	11	14	11	10	12	9	9	7	7	4	4	4	6.6	13.5
5-Aug-05	3	6	8	8	8	7	7	14	16	19	22	22	22	16	17	18	18	16	10	7	7	7	4	6	12.0	22.3
6-Aug-05	6	4	2	2	2	3	4	4	5	6	13	18	17	10	10	6	9	12	6	7	8	9	9	6	7.3	18.0
7-Aug-05	4	3	4	4	4	3	7	8	9	11	13	13	12	11	10	10	11	10	6	3	4	4	9	6	7.5	13.3
8-Aug-05	13	7	4	6	6	6	7	6	6	8	7	9	8	7	11	10	10	8	7	5	2	2	2	2	6.7	12.7
9-Aug-05	4	5	5	6	5	4	3	5	6	6	5	5	7	7	5	6	3	3	9	8	7	5	4	5	5.4	9.4
10-Aug-05	3	3	2	3	4	4	4	4	6	6	7	7	11	8	7	9	9	9	10	7	5	6	7	7	6.3	11.0
11-Aug-05	9	9	13	11	8	11	9	7	9	11	15	18	11	11	10	10	14	11	9	10	7	4	4	5	9.9	17.6
12-Aug-05	3	4	5	2	2	2	3	4	4	4	5	5	7	6	7	7	8	7	9	7	2	2	1	1	4.5	8.7
13-Aug-05	3	3	4	3	5	5	5	5	6	10	7	5	8	12	14	8	7	4	3	2	3	3	2	4	5.4	14.1
14-Aug-05	3	2	3	3	3	2	3	3	5	5	4	4	5	4	5	5	4	3	4	7	8	7	6	7	4.3	7.6
15-Aug-05	6	2	1	2	2	2	2	4	4	4	6	6	5	5	5	6	7	6	5	4	3	3	3	4	4.0	6.8
16-Aug-05	3	2	4	3	3	3	3	3	4	4	3	4	4	4	4	5	4	2	2	2	1	2	2	2	3.1	4.6
17-Aug-05	4	4	3	5	5	4	4	5	7	9	11	10	6	10	11	9	8	7	7	3	3	2	2	2	5.9	11.4
18-Aug-05	4	5	6	6	5	6	6	6	8	5	6	6	7	6	6	5	5	7	8	7	5	5	5	4	5.7	8.4
19-Aug-05	3	3	3	1	1	1	2	3	4	5	5	5	9	9	8	9	6	5	5	4	3	2	2	2	4.2	9.4
20-Aug-05	2	2	3	4	5	4	6	6	4	7	7	7	7	9	6	7	8	5	2	3	2	2	5	5	4.9	9.4
21-Aug-05	7	11	5	8	4	3	4	5	7	6	7	7	7	6	4	5	3	8	11	12	12	11	13	12	7.4	13.1
22-Aug-05	17	16	12	18	16	12	11	15	16	15	20	18	15	15	17	14	12	12	9	6	8	5	4	7	12.8	19.6
23-Aug-05	6	3	3	2	2	3	4	8	8	7	6	7	7	9	7	12	11	7	6	5	4	4	5	4	5.9	11.5
24-Aug-05	3	4	4	5	5	4	5	6	9	8	5	5	7	6	7	6	8	6	5	5	2	1	2	2	5.0	8.6
25-Aug-05	2	1	1	2	1	1	2	3	4	7	10	7	6	8	7	6	6	5	3	2	2	2	3	3	3.9	10.5
26-Aug-05	2	2	2	2	2	3	4	5	6	8	9	11	12	17	17	14	9	10	13	14	10	10	5	3	7.9	17.1
27-Aug-05	2	3	2	2	3	2	2	3	4	5	6	6	5	5	5	8	7	7	5	4	4	4	4	4	4.3	7.6
28-Aug-05	5	4	3	2	3	3	5	8	18	22	16	14	16	15	9	8	6	4	6	9	12	6	7	5	8.6	21.7
29-Aug-05	4	5	7	8	8	7	7	7	5	10	9	10	7	8	7	6	6	6	7	6	4	3	3	2	6.3	10.2
30-Aug-05	2	2	3	3	2	3	2	3	4	5	6	7	14	15	15	17	19	22	17	9	4	4	8	9	8.1	21.6
31-Aug-05	11	10	12	16	17	18	17	15	14	19	24	21	22	24	23	24	20	16	14	7	6	7	5	5	15.3	24.3
1-hr Average	5.0	4.8	4.7	5.1	5.2	5.1	5.5	6.7	7.6	9.1	10.1	9.9	10.2	10.3	10.1	9.8	9.3	8.6	7.8	6.7	5.7	4.9	5.1	4.9		
Hourly Max	16.7	15.7	12.8	17.6	16.8	18.4	18.9	19.6	18.2	21.7	24.2	22.3	22.2	24.3	23.1	24.0	21.1	21.6	20.3	22.5	14.0	11.4	13.3	12.8		

PASZA - Evergreen Park Vector Wind Speed Monthly Summary

HOURLY AVERAGE TABLE

Wind Speed (WSv)

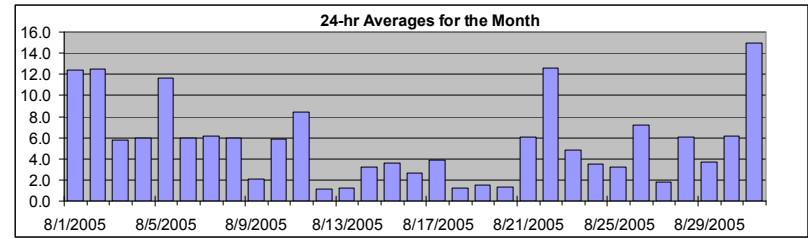
Station: Evergreen Park
 Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	24.0	km/hr	31-Aug	10:00 11:00
Maximum 24-hr Value:	14.9	km/hr	31-Aug	

Calm Time:	16 hrs	2% calms	Operational Time:	728 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	21.5	17.1	8.7	5.2	3.2	1.3	0.9	19.1 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr 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		
1-Aug-05	2	2	3	3	6	7	6	11	7	11	17	14	17	16	18	21	21	20	20	22	14	10	13	13	12.4	22.2
2-Aug-05	11	13	12	12	16	18	19	19	14	17	20	10	10	15	17	11	9	10	9	12	14	11	11	7	12.5	19.7
3-Aug-05	4	4	3	3	2	2	4	7	11	13	11	11	12	9	10	9	8	6	3	3	3	5	3	2	5.8	13.0
4-Aug-05	1	2	calm	3	3	4	4	5	5	8	9	9	10	13	11	9	11	8	9	6	6	3	4	3	5.9	12.9
5-Aug-05	3	6	8	8	8	7	7	14	16	19	21	22	22	15	15	17	17	16	10	6	6	6	4	6	11.7	21.8
6-Aug-05	5	3	calm	1	1	2	2	2	5	6	13	17	16	9	9	5	8	12	5	6	8	8	8	5	6.0	17.5
7-Aug-05	2	1	1	3	2	2	7	8	9	10	13	12	11	10	9	9	10	9	6	2	3	3	6	4	6.1	12.7
8-Aug-05	11	6	3	5	6	5	6	6	5	7	5	7	6	6	10	9	8	8	6	5	1	1	1	2	6.0	11.4
9-Aug-05	4	4	4	6	5	4	3	4	5	5	4	4	7	6	5	5	3	calm	9	8	7	5	4	4	2.1	8.8
10-Aug-05	3	2	2	3	3	4	4	4	4	5	5	7	4	10	6	7	8	9	10	6	5	6	7	6	5.8	10.0
11-Aug-05	9	8	12	11	8	11	9	7	8	11	15	17	11	11	9	9	14	10	9	10	7	3	4	4	8.4	17.2
12-Aug-05	3	4	5	2	1	2	3	4	3	1	2	3	4	3	5	5	6	5	8	7	2	2	1	1	1.1	8.2
13-Aug-05	3	3	4	2	5	5	4	4	5	10	7	3	7	12	14	7	7	3	1	1	3	3	1	3	1.3	13.6
14-Aug-05	2	2	2	3	3	1	2	2	4	4	4	4	5	3	4	5	3	2	4	6	7	7	6	7	3.2	7.4
15-Aug-05	6	2	calm	2	2	calm	1	3	3	3	5	5	4	4	4	4	7	5	5	4	3	3	3	4	3.6	6.5
16-Aug-05	3	2	3	3	3	3	3	3	3	3	3	2	3	3	4	4	3	1	2	1	1	1	2	2	2.7	4.3
17-Aug-05	4	4	3	4	5	4	4	5	7	9	11	9	3	9	10	8	8	7	6	2	2	1	1	2	3.9	11.0
18-Aug-05	4	5	6	5	5	5	5	5	8	4	4	4	5	4	4	3	3	7	7	6	5	4	5	4	1.2	8.0
19-Aug-05	2	3	3	1	1	1	1	2	4	4	3	3	9	7	7	7	3	1	5	4	2	calm	2	1	1.5	8.6
20-Aug-05	2	1	2	3	2	1	2	4	3	6	6	6	6	9	4	6	4	5	2	3	1	calm	5	5	1.3	8.5
21-Aug-05	6	10	5	7	4	2	3	4	6	6	7	7	7	6	4	4	2	8	10	11	12	10	13	12	6.1	13.0
22-Aug-05	17	16	11	18	16	12	11	15	16	15	19	17	15	15	16	13	12	12	8	6	8	5	4	6	12.5	19.2
23-Aug-05	5	1	2	1	2	3	4	7	7	6	5	6	3	7	5	11	8	7	5	5	4	4	4	4	4.8	11.2
24-Aug-05	2	4	4	5	5	4	5	6	8	8	4	4	6	4	5	2	6	4	5	5	2	calm	calm	2	3.5	8.3
25-Aug-05	2	1	1	1	1	1	2	3	4	6	10	7	5	6	5	4	5	3	1	2	1	2	2	3	3.2	10.2
26-Aug-05	1	1	calm	calm	1	3	4	5	5	8	9	11	11	16	16	13	8	9	13	14	10	10	5	calm	7.2	16.5
27-Aug-05	calm	2	calm	1	1	1	calm	3	2	3	5	3	1	4	4	7	7	7	5	4	4	4	4	4	1.8	6.9
28-Aug-05	4	2	2	2	calm	2	4	7	18	21	16	13	15	14	8	6	5	3	5	8	11	6	3	5	6.1	21.3
29-Aug-05	3	4	6	7	7	6	7	6	5	10	9	10	7	7	6	6	5	5	7	5	4	3	2	1	3.7	9.8
30-Aug-05	1	2	3	2	1	3	1	1	4	5	5	6	13	13	14	17	18	21	17	9	4	4	8	9	6.1	21.2
31-Aug-05	11	10	12	16	17	18	17	15	14	19	24	20	22	24	23	24	19	16	14	7	5	6	3	3	14.9	24.0
1-hr Vector	2.4	2.2	2.2	2.5	3.1	3.1	3.6	4.3	4.9	6.7	7.2	7.1	7.5	7.0	7.1	6.1	6.2	4.8	4.2	3.4	3.2	2.3	2.6	2.2		
Hourly Max	16.5	15.6	12.2	17.5	16.8	18.3	18.7	19.5	17.7	21.3	24.0	21.8	21.7	23.8	22.6	23.7	20.7	21.2	20.0	22.2	13.9	11.3	13.2	12.6		

PASZA - Evergreen Park Wind Direction Monthly Summary

HOURLY AVERAGE TABLE

Wind Direction (WD)

Station: Evergreen Park
 Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
Day	350.7	329.2	273.8	246.5	170.1	38.2	9.6	266 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

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	24-hour Average	WD Sector
1-Aug-05	187	255	279	241	222	245	254	272	277	246	254	251	253	256	260	262	259	259	256	246	253	254	244	230	253	WSW	
2-Aug-05	222	224	227	241	250	251	257	255	254	256	264	306	295	275	265	315	303	302	263	248	252	257	256	273	261	W	
3-Aug-05	288	267	332	337	306	316	295	281	276	271	269	261	277	266	255	270	250	262	229	172	185	203	191	174	265	W	
4-Aug-05	208	209	332	182	200	215	204	208	219	247	265	267	268	267	269	238	272	262	242	236	235	206	203	205	246	WSW	
5-Aug-05	221	241	233	234	267	282	273	252	255	269	273	266	254	281	284	283	273	266	276	291	274	253	274	266	267	W	
6-Aug-05	248	323	201	151	170	202	173	137	188	228	253	257	273	278	280	248	227	287	279	249	241	248	310	241	254	WSW	
7-Aug-05	301	342	291	321	233	286	258	264	263	299	327	322	326	327	316	319	318	315	341	345	330	67	212	306	307	NW	
8-Aug-05	289	2	268	238	274	273	273	278	293	318	311	270	274	280	272	298	297	326	317	300	245	279	256	225	289	WNW	
9-Aug-05	230	293	312	343	12	17	22	27	55	33	28	51	88	49	50	69	62	79	232	257	272	282	280	290	359	N	
10-Aug-05	309	305	222	240	265	290	269	243	211	275	265	266	267	266	292	281	274	301	308	295	275	270	260	270	274	W	
11-Aug-05	264	267	271	266	280	268	274	268	291	299	314	329	318	307	337	329	327	3	359	358	340	322	333	347	309	NW	
12-Aug-05	352	41	66	81	321	66	55	68	69	135	173	245	272	2	290	322	289	299	228	215	196	197	206	207	291	WNW	
13-Aug-05	197	197	207	217	208	192	200	209	248	254	259	5	79	63	60	71	66	61	103	105	88	79	92	181	115	ESE	
14-Aug-05	72	42	13	34	49	353	305	7	32	28	35	71	38	349	296	310	9	355	281	17	49	65	71	67	27	NNE	
15-Aug-05	84	93	44	29	43	27	42	73	83	83	111	133	134	98	125	95	97	108	129	109	82	72	61	76	95	E	
16-Aug-05	87	47	38	56	70	56	45	42	59	69	68	61	17	45	48	24	42	75	39	85	254	180	350	339	49	NE	
17-Aug-05	345	354	332	336	310	312	269	281	262	252	254	274	308	339	332	349	347	13	40	40	203	177	193	212	311	NW	
18-Aug-05	264	289	287	316	309	282	276	276	267	242	152	214	221	187	256	69	129	105	114	101	107	111	106	86	214	SSW	
19-Aug-05	70	67	74	96	230	240	50	99	229	213	212	239	267	267	268	246	229	122	108	131	166	208	75	68	217	SW	
20-Aug-05	38	155	32	90	343	347	230	202	96	148	150	141	183	194	174	179	281	315	60	80	284	282	324	314	188	S	
21-Aug-05	331	314	302	245	268	168	185	244	250	285	275	267	231	200	225	172	319	286	265	242	247	249	241	227	254	WSW	
22-Aug-05	229	243	240	247	250	253	250	250	250	249	256	263	270	262	258	263	258	260	288	280	232	252	261	279	254	WSW	
23-Aug-05	239	133	212	169	224	212	218	263	288	316	273	263	296	311	291	253	319	231	304	277	270	272	274	276	273	W	
24-Aug-05	210	225	234	246	251	226	197	237	277	277	255	232	202	227	199	291	292	187	161	123	143	172	88	55	231	SW	
25-Aug-05	194	211	189	194	197	208	206	205	187	247	257	246	244	274	281	236	273	271	329	172	194	196	201	205	242	WSW	
26-Aug-05	163	179	170	296	191	199	204	228	243	252	247	254	271	275	270	266	261	252	253	252	253	247	254	92	254	WSW	
27-Aug-05	27	193	159	205	141	37	17	52	90	194	164	204	261	359	45	49	64	66	47	14	19	52	79	145	73	ENE	
28-Aug-05	192	195	203	65	343	212	252	274	280	270	274	261	264	269	292	253	324	134	161	236	315	54	165	298	266	W	
29-Aug-05	346	313	31	2	10	16	26	357	1	324	336	336	313	300	288	291	308	261	228	205	175	174	167	145	326	NNW	
30-Aug-05	154	80	68	68	87	77	63	114	188	193	206	222	258	256	250	252	263	264	261	245	224	220	240	236	245	WSW	
31-Aug-05	236	229	235	241	244	246	249	247	247	253	250	260	270	263	262	248	255	249	249	240	218	223	267	198	250	WSW	
Hourly Avg	252	263	261	261	265	262	255	258	261	265	264	268	270	278	277	276	284	279	265	253	255	243	247	248			

PASZA - Evergreen Park Standard Deviation of Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	64.4	52.6	29.6	18.4	12.5	6.8	5.0

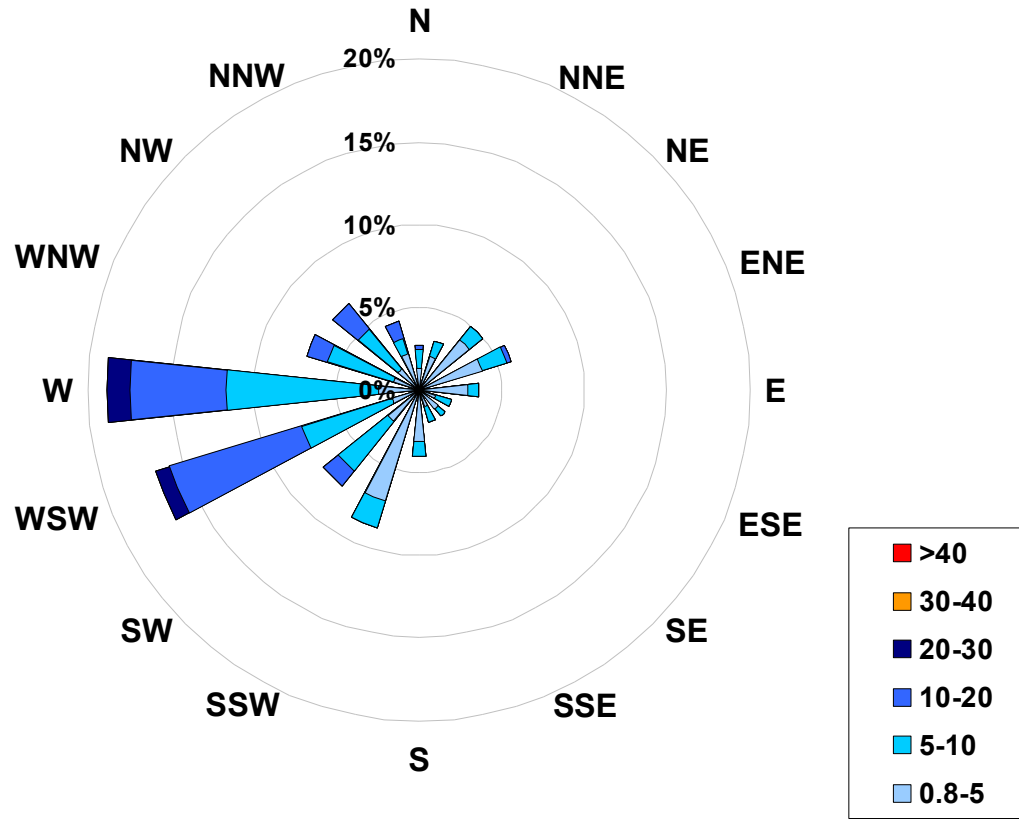
Status Flag Characters

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

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	Daily Maximum
1-Aug-05	43	41	40	15	12	14	49	12	17	10	10	11	10	11	13	13	11	12	8	8	8	8	5	6	49.2	
2-Aug-05	4	4	6	9	6	5	7	7	8	8	9	19	13	15	12	20	15	14	14	7	6	6	7	14	19.7	
3-Aug-05	20	23	19	35	32	22	13	15	13	10	18	16	20	27	27	29	27	27	21	18	15	9	40	34	39.6	
4-Aug-05	31	52	60	17	18	10	12	23	14	17	19	17	15	16	13	15	16	16	12	12	12	10	17	28	59.8	
5-Aug-05	20	11	10	9	11	14	12	7	8	10	11	10	10	17	20	14	11	9	11	12	12	10	11	16	20.4	
6-Aug-05	26	27	51	38	25	66	30	41	21	18	14	14	15	16	20	23	13	12	31	17	12	15	12	32	66.0	
7-Aug-05	46	48	56	43	34	27	10	11	13	18	18	24	18	18	34	33	15	15	20	23	18	27	18	34	55.9	
8-Aug-05	11	43	51	29	16	15	14	19	21	25	31	26	31	28	22	29	30	23	23	12	42	30	32	20	50.6	
9-Aug-05	13	21	15	13	16	20	36	44	25	30	28	29	28	26	28	25	24	53	11	10	14	15	19	10	53.3	
10-Aug-05	23	28	35	39	12	13	15	19	18	35	19	59	20	40	21	27	23	19	16	12	11	10	10	12	58.7	
11-Aug-05	11	11	14	13	18	12	12	14	14	13	15	11	14	16	19	22	13	18	18	14	9	16	15	14	22.4	
12-Aug-05	15	12	15	34	33	22	13	18	54	67	71	65	46	47	38	51	40	35	23	6	26	18	11	21	71.2	
13-Aug-05	7	7	8	29	9	6	8	24	39	13	23	39	27	18	17	19	19	48	55	24	17	18	38	14	55.2	
14-Aug-05	27	39	35	29	16	41	45	48	33	28	28	20	19	39	13	14	26	46	19	19	14	18	20	19	48.0	
15-Aug-05	24	34	38	35	48	41	42	20	29	31	28	30	42	29	44	41	15	23	25	15	6	9	12	13	48.2	
16-Aug-05	18	18	19	17	13	24	18	16	27	34	36	53	46	43	22	20	39	57	30	18	36	17	42	25	57.0	
17-Aug-05	13	15	24	24	11	11	14	16	19	13	16	22	46	31	24	28	24	21	21	40	8	21	20	13	45.8	
18-Aug-05	12	13	12	13	12	15	19	26	13	42	40	47	55	61	56	62	51	26	16	9	10	9	9	11	62.0	
19-Aug-05	21	11	10	14	19	15	25	28	17	24	58	64	23	45	32	30	54	49	26	13	22	66	40	29	66.2	
20-Aug-05	45	49	55	56	67	43	56	50	33	24	30	36	32	23	53	26	36	23	31	14	29	27	12	23	67.0	
21-Aug-05	21	13	17	11	28	60	28	21	10	19	21	19	17	20	28	27	40	17	19	9	9	14	6	5	59.5	
22-Aug-05	6	7	8	5	5	8	6	5	6	7	10	11	16	14	14	13	12	13	14	11	10	10	24	14	23.8	
23-Aug-05	11	47	28	41	46	12	18	15	24	29	39	43	54	20	27	11	25	17	21	18	17	15	12	16	53.9	
24-Aug-05	31	14	10	11	11	9	7	10	14	16	39	45	41	65	57	63	33	39	18	11	47	39	52	34	64.5	
25-Aug-05	14	32	26	23	6	9	11	11	15	18	14	28	29	38	49	51	41	42	55	12	15	12	18	29	54.6	
26-Aug-05	14	27	15	46	13	13	16	10	25	9	9	13	16	16	14	15	19	10	8	7	5	5	19	52	52.3	
27-Aug-05	59	23	70	56	46	51	44	14	33	45	32	58	49	44	48	24	23	20	14	10	30	9	17	33	70.0	
28-Aug-05	18	42	31	39	61	42	35	49	12	10	14	16	18	16	25	38	43	37	25	15	17	13	15	18	61.2	
29-Aug-05	23	30	14	24	16	21	14	22	25	12	12	13	17	15	22	20	18	19	16	18	16	14	20	27	29.8	
30-Aug-05	35	44	27	46	62	24	64	41	25	28	28	29	21	13	12	10	11	9	9	6	24	13	5	5	64.2	
31-Aug-05	6	9	7	6	5	5	4	5	5	6	8	11	12	11	11	9	10	8	8	12	16	7	36	32	35.8	
Hourly Max	59	52	70	56	67	66	64	50	54	67	71	65	55	65	57	63	54	57	55	40	47	66	52	52		

1-hr Average Wind Rose (in km/hr) Located at the Evergreen Park Site for August 2005



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range		Frequency (hrs)	
0.8	< 5	299	
5	to 10	278	
10	to 20	150	
20	to 30	17	
30	to 40	0	
	> 40	0	
Total Non-Zero Values			744

PASZA – Smoky Heights Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Smoky Heights Sulphur Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

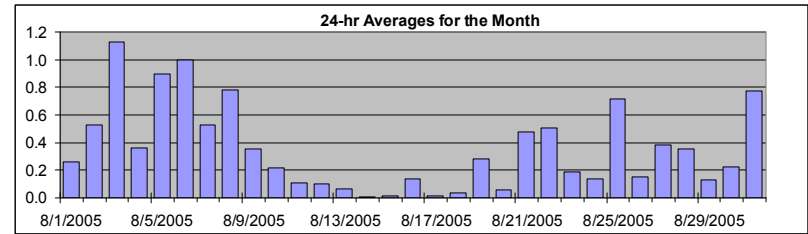
Station: Smoky Heights
 Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

Objective Limit: Alberta Environment: 1-hr 172 ppb 24-hr 57 ppb

Summary			
Number of 1-hr Exceedances:	0		
Number of 24-hr Exceedances:	0		
Maximum 1-hr Average:	5.1 ppb	6-Aug	7:00 8:00
Maximum 24-hr Average:	1.1 ppb	3-Aug	

AIC Time:	35 hrs	Operational Time:	697 hrs					
Calibration Time:	7 hrs	AMD Operational Uptime:	99.3%					
Percentile	99	95	75	50	25	5	1	Average
	3.0	1.5	0.4	0.1	0.0	0.0	0.0	0.4 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 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-Aug-05	0	0	A	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0.3	0.9	
2-Aug-05	0	A	1	0	0	1	1	1	0	C	C	A	A	3	0	0	0	0	0	1	0	0	0	0.5	2.6		
3-Aug-05	1	1	4	3	1	A	3	1	2	3	2	1	1	0	0	0	0	0	0	0	0	0	0	1.1	4.1		
4-Aug-05	0	0	0	0	A	0	0	0	2	1	0	0	0	0	0	0	2	1	0	0	0	0	0	0.4	2.6		
5-Aug-05	1	1	2	A	0	1	0	0	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0.9	3.2		
6-Aug-05	0	0	A	0	0	0	0	5	3	3	1	1	1	1	1	1	1	2	0	0	0	0	0	1.0	5.1		
7-Aug-05	0	A	1	1	0	0	0	2	2	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0.5	2.5		
8-Aug-05	A	2	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	1	1	2	1	1	0	0.8	2.2		
9-Aug-05	1	1	1	1	1	1	1	0	C	C	C	C	C	D	0	0	0	0	0	0	0	0	0	0.4	1.4		
10-Aug-05	0	0	0	0	0	A	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8		
11-Aug-05	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5		
12-Aug-05	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3		
13-Aug-05	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3		
14-Aug-05	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1		
15-Aug-05	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1		
16-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	A	0.1	0.7		
17-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.0	0.1		
18-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.0	0.3		
19-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	D	D	0	2	3	A	A	0	0	0.3	3.0		
20-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0	0	0.1	0.5		
21-Aug-05	0	0	0	0	0	2	1	0	0	0	1	1	0	0	0	0	0	A	1	1	0	0	0	0.5	1.6		
22-Aug-05	0	0	0	0	2	0	1	2	2	1	1	1	0	0	0	0	A	0	0	0	0	0	0	0.5	2.3		
23-Aug-05	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	A	0	0	0	0	0	0	0	0.2	0.9		
24-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.1	0.5		
25-Aug-05	0	0	0	0	0	0	0	0	0	4	3	2	1	A	1	1	1	1	1	1	0	0	0	0.7	3.7		
26-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	0	0.2	1.1		
27-Aug-05	0	0	0	0	0	0	0	0	0	0	0	A	0	P	P	0	0	0	0	0	0	1	1	2	3	0.4	2.6
28-Aug-05	3	2	1	1	1	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.6		
29-Aug-05	0	0	0	0	0	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5		
30-Aug-05	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0.2	1.4	
31-Aug-05	1	0	0	0	0	0	1	A	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	3	0.8	2.6	
Hourly Avg	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.5	0.6	0.6	0.5	0.4	0.3	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.2	0.2	0.4			
Hourly Max	2.6	2.0	4.1	2.9	1.6	1.6	3.1	5.1	3.2	3.7	3.3	2.5	1.5	2.6	1.2	1.6	2.3	3.0	1.3	2.2	1.5	1.5	2.0	2.6			

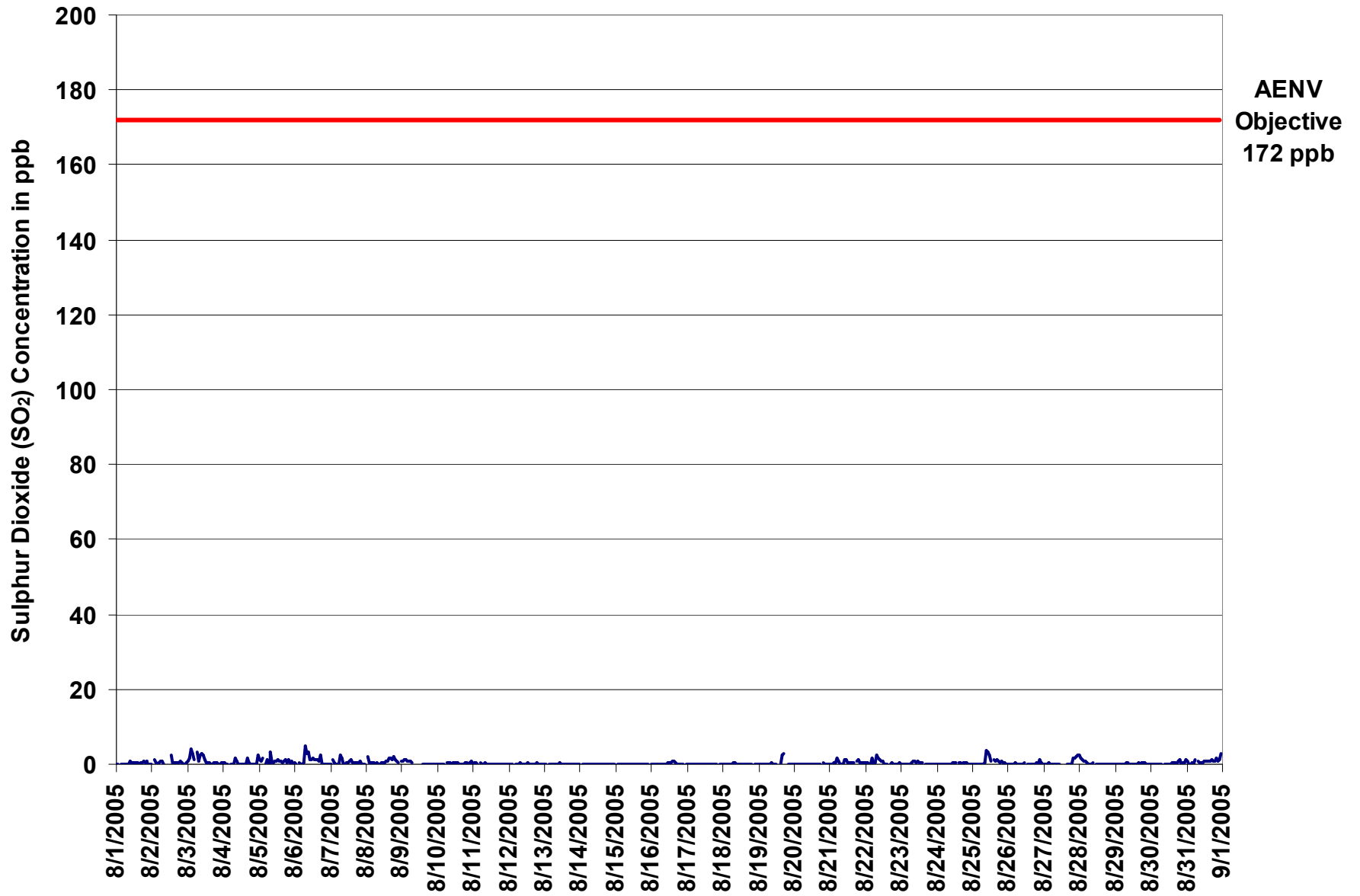


Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

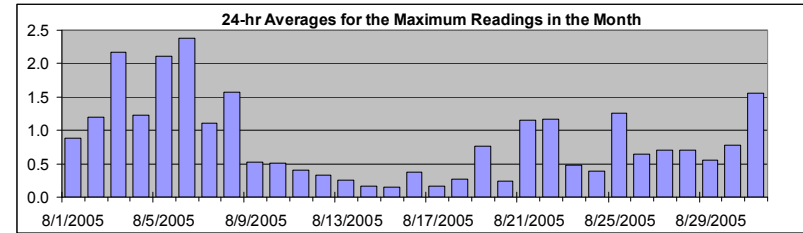
Sulphur Dioxide (SO₂)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	19.9	ppb	6-Aug	7:00 8:00
Maximum 24-hr Value:	2.4	ppb	6-Aug	

AIC Time:	35 hrs	Operational Time:	697 hrs					
Calibration Time:	7 hrs	AMD Operational Uptime:	99.3%					
Percentile	99	95	75	50	25	5	1	Average
	5.7	3.3	1.0	0.4	0.2	0.0	0.0	0.8 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start 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-Aug-05	0	0	A	0	0	0	0	0	1	1	1	1	1	1	2	0	1	1	2	1	2	4	1	0	0.9	4.1
2-Aug-05	0	A	2	1	1	2	3	2	0	C	C	A	A	3	0	1	1	1	2	1	1	1	1	1	1.2	3.3
3-Aug-05	1	2	8	7	2	A	6	2	4	4	4	2	1	1	1	1	1	1	0	1	0	0	1	2.2	7.9	
4-Aug-05	1	1	0	0	A	1	0	0	3	2	1	1	1	0	0	1	3	2	0	0	1	5	2	5	1.2	5.0
5-Aug-05	2	2	5	A	0	4	1	3	6	2	1	1	1	2	2	1	1	1	2	2	2	1	4	1	2.1	6.3
6-Aug-05	1	0	A	0	0	0	4	20	4	6	2	2	2	1	2	2	2	3	1	0	1	1	0	0	2.4	19.9
7-Aug-05	0	A	2	2	0	0	1	3	3	1	0	1	1	1	2	1	2	2	1	1	2	0	0	0	1.1	3.3
8-Aug-05	A	7	1	1	0	1	1	1	1	1	1	1	1	1	1	3	2	3	2	3	2	1	1	A	1.6	7.1
9-Aug-05	1	1	2	1	1	1	1	1	C	C	C	C	D	0	0	0	0	0	0	0	0	0	0	0	0.5	1.7
10-Aug-05	0	0	0	0	0	A	0	1	1	0	1	1	1	1	1	0	0	0	0	1	0	0	1	2	0.5	2.1
11-Aug-05	1	1	1	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.2
12-Aug-05	0	0	0	A	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.3	0.7
13-Aug-05	0	0	A	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
14-Aug-05	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
15-Aug-05	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.4
16-Aug-05	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0	0	0	0	0	0	A	0.4	1.0
17-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.4
18-Aug-05	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.5
19-Aug-05	0	0	0	0	0	0	0	0	1	1	0	0	0	D	D	4	5	5	A	A	0	0	0	0	0.8	4.9
20-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	1	1	0	0	0	0.2	1.0
21-Aug-05	0	0	0	1	1	4	2	0	0	1	3	2	1	1	1	1	1	A	2	4	1	1	1	0	1.2	4.1
22-Aug-05	1	1	0	0	5	1	2	3	3	2	2	2	0	1	0	0	A	0	1	1	0	0	1	1	1.2	4.8
23-Aug-05	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	A	0	0	0	0	0	0	0	0	0.5	1.5
24-Aug-05	0	0	0	0	0	0	0	0	0	0	0	1	1	1	A	1	1	0	1	0	0	0	0	0	0.4	1.0
25-Aug-05	0	0	0	0	0	0	0	0	1	6	5	3	2	A	2	1	2	1	1	1	1	1	0	0	1.3	6.0
26-Aug-05	0	0	0	1	0	1	0	0	1	0	1	1	A	1	0	1	0	0	0	2	0	4	1	0	0.6	3.6
27-Aug-05	0	0	0	0	0	0	0	0	0	0	0	A	1	P	P	0	0	0	0	0	2	3	3	3	0.7	3.4
28-Aug-05	3	2	2	2	1	1	0	0	1	1	A	0	1	0	1	0	0	0	0	0	0	0	0	0	0.7	2.9
29-Aug-05	0	0	0	0	0	0	1	1	1	A	1	1	0	0	0	0	1	1	1	1	1	1	1	0	0.6	1.4
30-Aug-05	0	0	1	0	0	0	0	0	A	0	0	0	1	0	1	1	1	1	2	2	1	0	2	5	0.8	4.7
31-Aug-05	4	0	0	0	1	0	3	A	1	1	1	1	1	1	1	1	1	1	1	1	2	1	3	6	1.6	5.6
Hourly Avg	0.6	0.8	1.0	0.7	0.6	0.6	0.9	1.4	1.3	1.2	0.9	0.8	0.7	0.7	0.7	0.8	0.9	0.9	0.8	0.8	0.8	0.9	0.7	1.0		
Hourly Max	4.4	7.1	7.9	7.1	4.8	3.9	5.9	19.9	6.3	6.0	4.7	3.1	2.1	3.3	1.8	3.7	4.6	4.9	2.2	4.1	2.4	5.0	3.8	5.6		

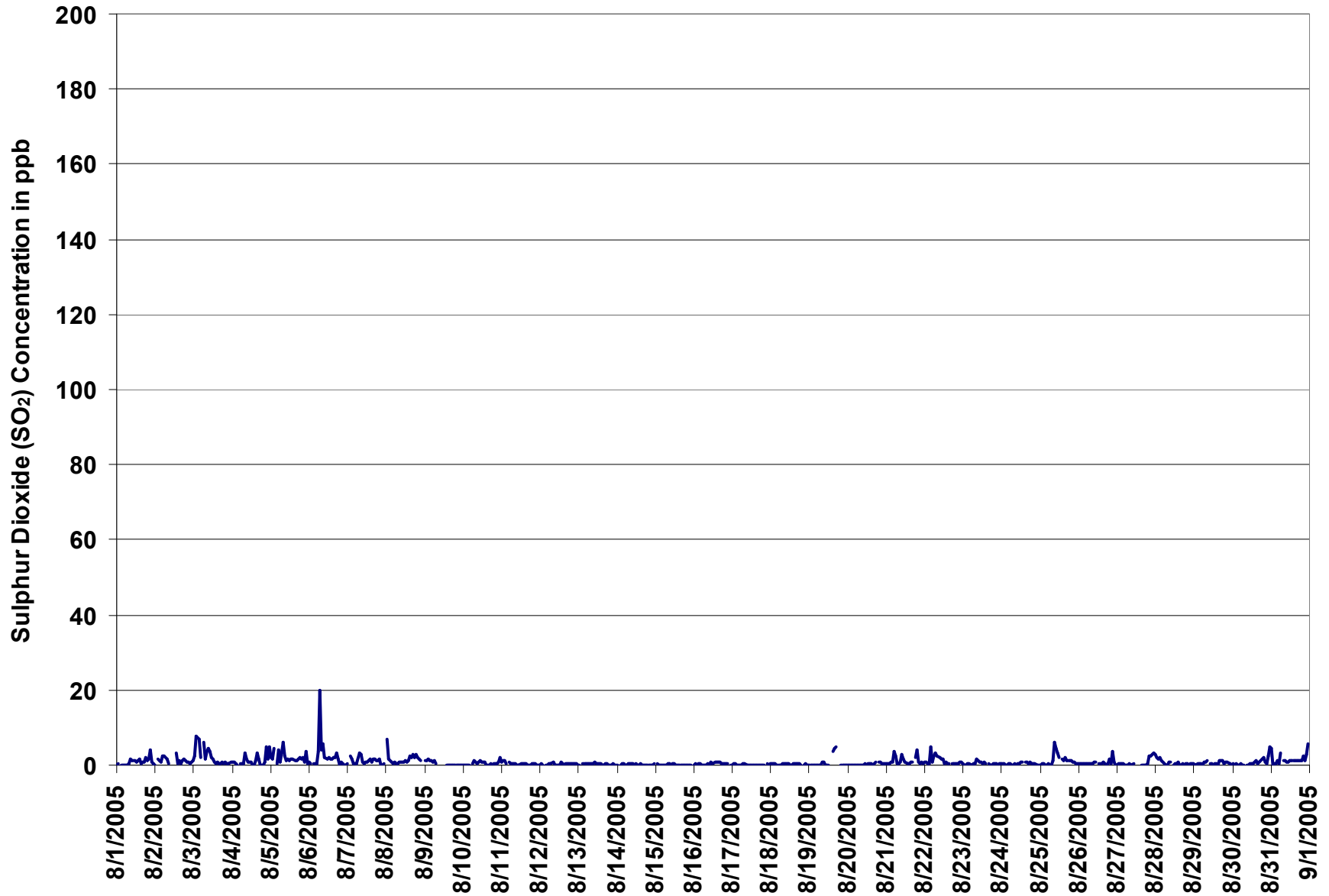
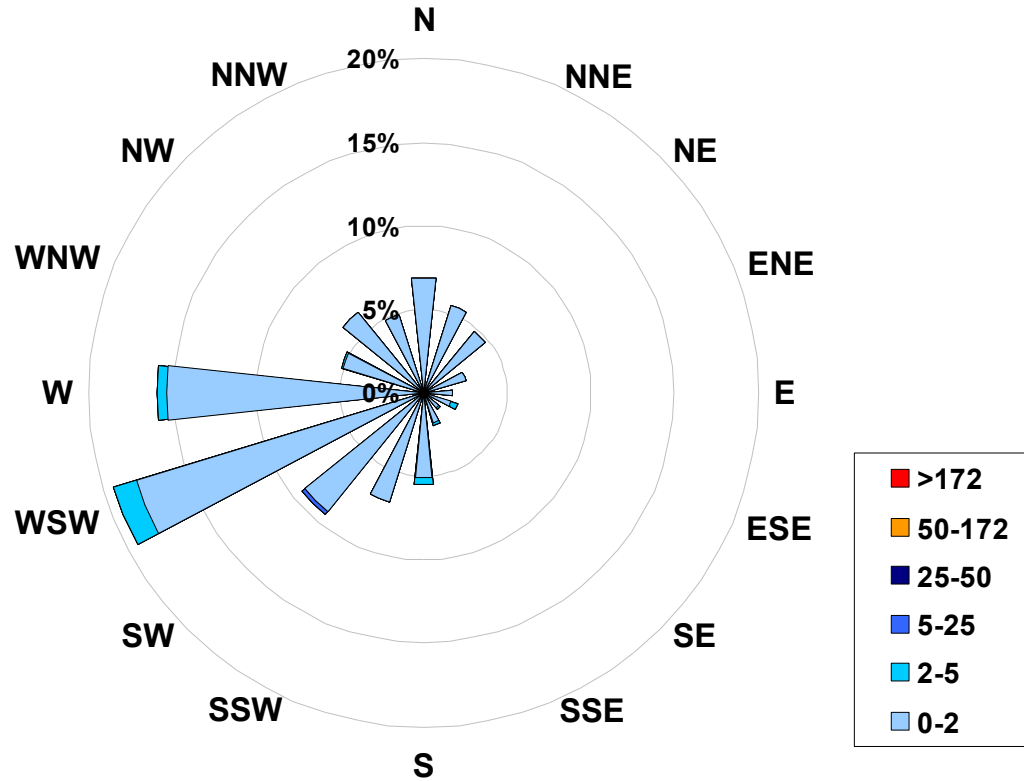


Figure 28. PASZA - Smoky Heights Sulphur Dioxide 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Smoky Heights Site for August 2005



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2	673	
2	to 5	23	
5	to 25	1	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values			697

PASZA - Smoky Heights Total Reduced Sulphur Monthly Summary

HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Station: Smoky Heights
 Station Owner: PASZA

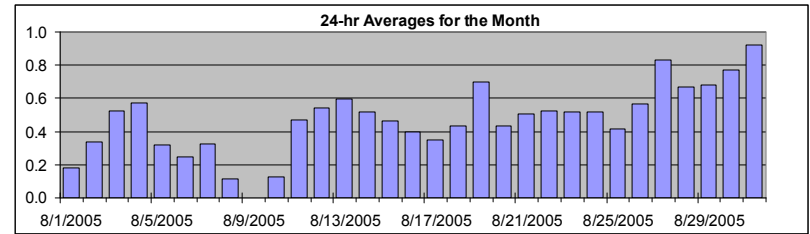
Monitoring Dates: August 1, 2005 to September 1, 2005

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

Summary

Maximum 1-hr Average:	1.5	ppb	4-Aug	18:00 19:00
Maximum 24-hr Value:	0.9	ppb	31-Aug	

AIC Time:	34 hrs	Operational Time:	695 hrs					
Calibration Time:	7 hrs	AMD Operational Uptime:	98.9%					
Percentile	99	95	75	50	25	5	1	Average
	1.3	1.0	0.6	0.5	0.3	0.0	0.0	0.5 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 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-Aug-05	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
2-Aug-05	0	A	0	0	0	0	0	0	0	C	C	C	A	A	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
3-Aug-05	0	0	0	0	0	A	1	0	1	0	0	1	0	0	1	1	0	1	1	1	1	1	1	1	1	1	0.5	0.7
4-Aug-05	1	1	1	1	A	1	0	0	1	0	0	0	0	0	0	0	0	1	2	1	1	1	1	1	1	0.6	1.5	
5-Aug-05	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8	
6-Aug-05	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6	
7-Aug-05	0	A	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.1	
8-Aug-05	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.4	
9-Aug-05	0	0	0	0	0	0	0	0	0	C	C	C	C	D	D	D	D	D	D	0	0	0	0	0	0	N	0.1	
10-Aug-05	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.1	0.5	
11-Aug-05	0	0	0	0	A	1	1	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1	0.5	0.6	
12-Aug-05	0	1	1	A	1	1	1	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	1	1	1	0.5	0.8	
13-Aug-05	1	1	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	0.6	0.8	
14-Aug-05	0	A	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	0	1	0.5	0.6		
15-Aug-05	A	1	0	1	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.5	0.7	
16-Aug-05	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.4	0.6	
17-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	0.5	
18-Aug-05	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0	0.4	0.6	
19-Aug-05	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	A	0	0	0	0	0.7	1.5	
20-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	1	1	1	1	0.4	0.8	
21-Aug-05	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	0	A	1	0	0	0	1	0	0.5	0.6	
22-Aug-05	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	A	0	0	0	0	1	1	1	1	0.5	0.8	
23-Aug-05	0	0	0	0	1	1	1	1	1	1	1	0	0	1	0	A	0	1	0	0	0	0	0	0	0	0.5	0.8	
24-Aug-05	1	1	1	1	1	1	0	0	0	1	1	0	0	0	A	0	0	0	0	0	0	1	1	1	1	0.5	0.7	
25-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	1	0	0	1	0.4	0.6	
26-Aug-05	0	0	1	1	1	1	1	1	1	1	1	1	A	1	0	0	0	0	0	0	0	0	1	1	1	0.6	0.9	
27-Aug-05	1	1	1	1	1	1	1	0	0	0	0	A	1	P	P	1	1	1	1	1	1	1	1	1	1	0.8	1.4	
28-Aug-05	1	1	1	1	1	1	1	1	1	1	0	A	0	0	1	1	1	1	0	1	1	1	1	1	1	0.7	1.1	
29-Aug-05	1	1	1	1	1	1	1	1	1	1	A	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0.7	1.1	
30-Aug-05	0	0	0	0	0	0	0	0	0	A	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1	
31-Aug-05	1	1	1	1	1	0	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2	
Hourly Avg	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5			
Hourly Max	1.1	1.0	0.9	1.1	1.1	0.9	0.9	1.0	1.2	1.1	1.1	1.1	1.4	1.4	1.5	1.4	1.3	1.4	1.5	1.3	1.3	1.2	1.2	1.2				

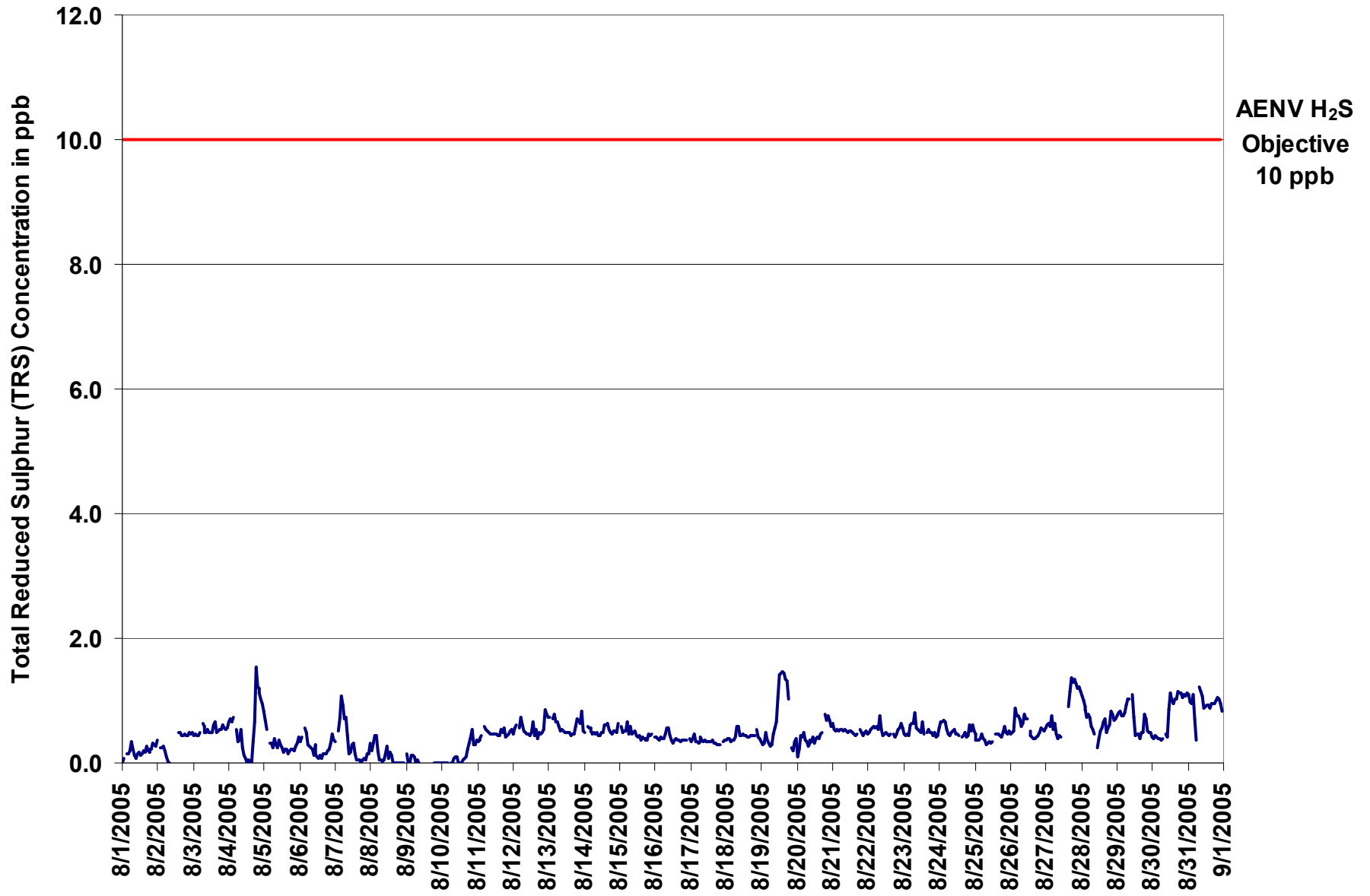


Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

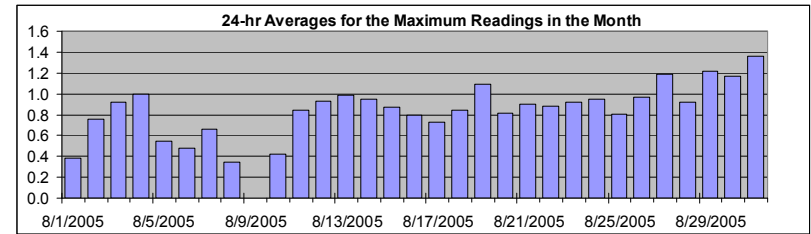
Total Reduced Sulphur (TRS)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	2.4	ppb	29-Aug	10:00 11:00
Maximum 24-hr Value:	1.4	ppb	31-Aug	

AIC Time:	34 hrs	Operational Time:	695 hrs					
Calibration Time:	7 hrs	AMD Operational Uptime:	98.9%					
Percentile	99	95	75	50	25	5	1	Average
	1.9	1.5	1.0	0.8	0.7	0.3	0.0	0.8 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start 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-Aug-05	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.4	0.6
2-Aug-05	1	A	1	1	1	1	1	1	1	C	C	C	A	A	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
3-Aug-05	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
4-Aug-05	1	1	1	1	A	1	1	1	1	1	1	0	0	1	0	0	1	1	2	2	2	1	1	1	1	1.0	2.3
5-Aug-05	1	1	1	A	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0.5	1.2
6-Aug-05	1	1	A	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.5	1.0
7-Aug-05	1	A	1	1	2	2	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0.7	1.9
8-Aug-05	A	0	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.8
9-Aug-05	0	0	0	0	1	0	0	0	0	C	C	C	C	D	D	D	D	D	D	0	0	0	0	0	0	N	0.5
10-Aug-05	0	0	0	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0.4	0.9
11-Aug-05	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
12-Aug-05	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.3
13-Aug-05	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.4
14-Aug-05	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
15-Aug-05	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.4
16-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.1
17-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.7	1.1
18-Aug-05	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	1.5
19-Aug-05	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	A	1	1	1	1	1	1.1	2.3
20-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.8	1.2
21-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.9	1.0
22-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.9	1.1
23-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.9	1.3
24-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0.9	1.2
25-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
26-Aug-05	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.4
27-Aug-05	1	1	1	1	1	1	1	1	1	1	1	A	1	P	P	2	2	2	2	2	2	1	1	1	1	1.2	1.6
28-Aug-05	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.3
29-Aug-05	1	1	1	1	1	1	2	2	2	A	2	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1.2	2.4
30-Aug-05	1	1	1	1	1	1	1	1	A	1	1	2	2	1	1	1	1	1	2	1	1	1	1	1	2	1.2	1.9
31-Aug-05	2	2	2	2	2	1	1	A	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.4	2.0
Hourly Avg	0.8	0.8	0.8	0.9	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.9	0.8	0.9	0.9	0.9		
Hourly Max	1.9	1.7	1.6	2.0	1.9	1.6	1.6	1.5	2.0	1.6	2.4	1.9	2.3	1.8	1.7	1.8	1.6	1.6	2.3	1.9	1.5	1.4	1.4	1.6			

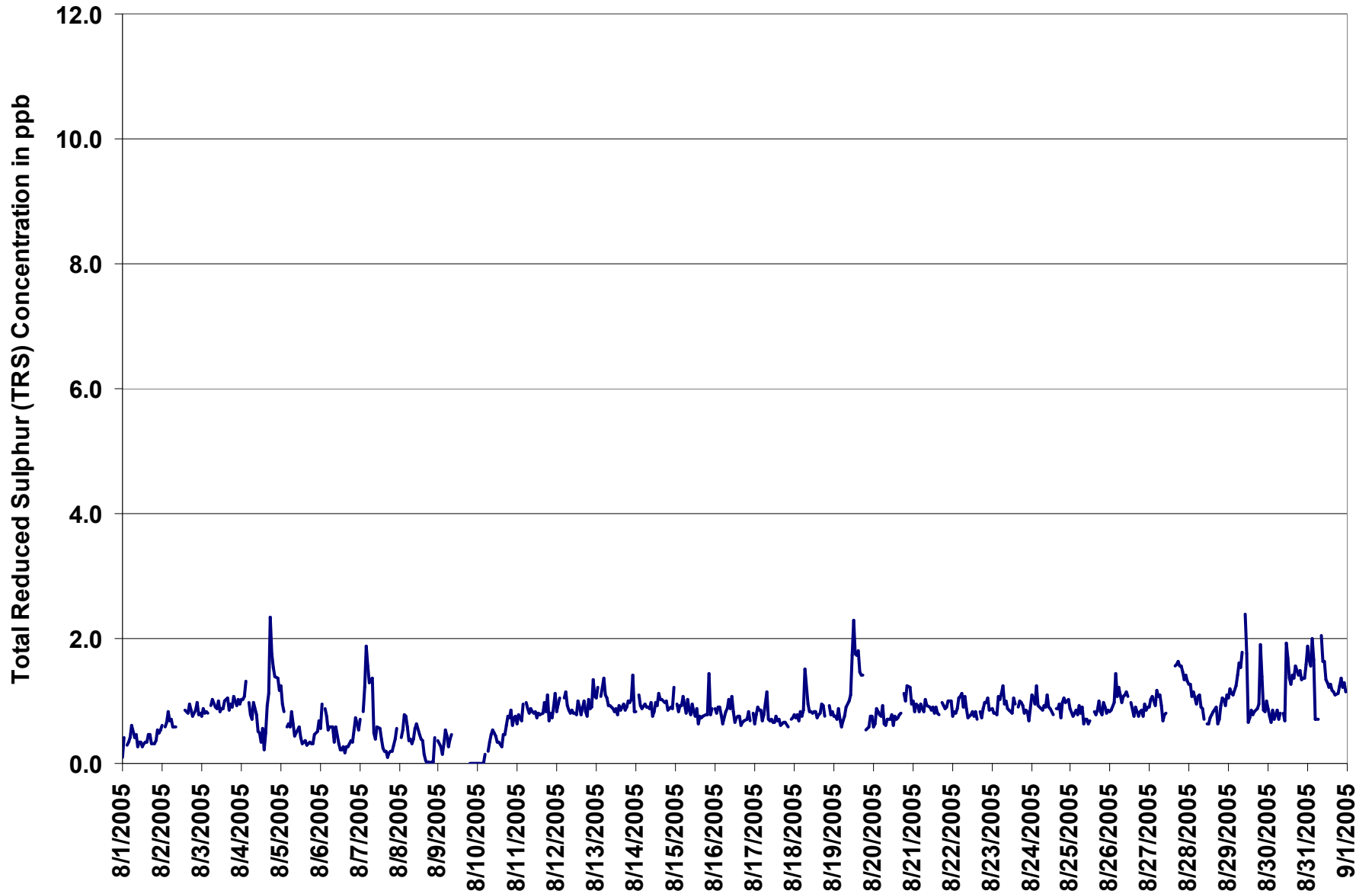
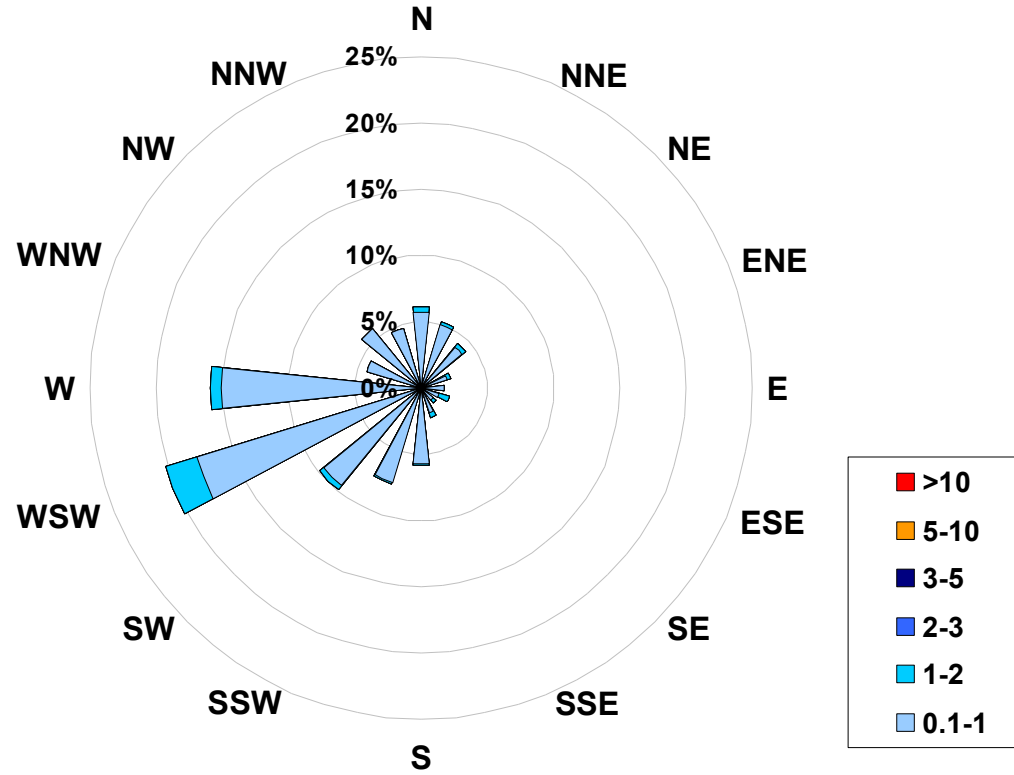


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Smoky Heights Site for August 2005**



Calms: 0%

Frequency Distribution of TRS in ppb			
Range		Frequency (hrs)	
0.1	< 1	651	
1	to 2	44	
2	to 3	0	
3	to 5	0	
5	to 10	0	
	> 10	0	
Total Non-Zero Values		695	

PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

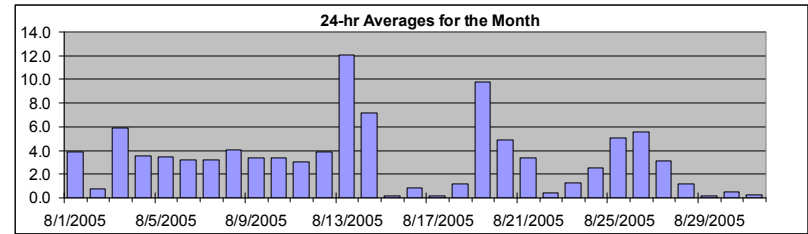
Particulate Matter (PM_{2.5})

Monitoring Dates: August 1, 2005 to September 1, 2005

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:	51.7	μg/m ³	19-Aug	19:00 20:00
Maximum 24-hr Value:	12.0	μg/m ³	13-Aug	

AIC Time:	0 hrs		Operational Time:	707 hrs					
Calibration Time:	3 hrs		AMD Operational Uptime:	95.4%					
Percentile	99	95	75	50	25	5	1	Average	Geomean
	23.5	13.8	4.1	1.3	0.0	0.0	0.0	3.3 μg/m ³	2.0 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																							24-hour Average	Daily Maximum			
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00			21:00	22:00	23:00
1-Aug-05	17	17	9	7	4	3	4	4	2	0	0	0	0	0	0	0	0	0	D	D	D	D	2	5	2	2	3.9	17.3
2-Aug-05	3	3	5	0	0	0	1	1	0	2	0	C	C	C	0	0	0	0	0	0	0	0	2	0	0	0	0.8	4.6
3-Aug-05	0	0	0	0	0	1	3	2	3	2	2	1	0	0	1	0	1	2	2	6	6	48	19	6	34	5.9	48.0	
4-Aug-05	10	5	5	5	5	4	4	6	8	7	7	2	3	3	2	1	1	3	2	1	1	0	0	0	0	3.6	10.3	
5-Aug-05	0	0	1	1	1	0	0	0	0	0	0	D	D	D	D	D	0	0	4	7	11	17	15	10	3.5	16.6		
6-Aug-05	4	1	1	1	2	2	1	1	0	0	0	D	D	D	D	5	5	0	0	12	8	12	5	3	3.2	12.2		
7-Aug-05	0	1	1	2	0	0	0	1	1	0	0	D	D	D	D	D	5	2	1	D	21	15	8	3.2	20.5			
8-Aug-05	3	1	0	1	1	1	0	1	2	2	1	1	0	D	D	D	D	0	0	22	18	17	8	4.0	22.2			
9-Aug-05	5	2	3	3	3	3	4	3	3	12	8	7	5	4	1	2	2	2	0	3	0	2	2	3	3.4	12.0		
10-Aug-05	3	2	1	0	1	4	14	8	5	0	0	4	1	4	3	3	1	6	2	5	5	3	3	2	3.3	14.1		
11-Aug-05	2	2	4	3	3	4	5	5	5	4	3	2	6	7	2	6	0	0	0	0	0	3	1	1	3	3.0	6.5	
12-Aug-05	1	0	0	0	0	42	8	4	0	0	2	2	0	1	1	1	1	4	2	5	3	9	4	3	3.8	41.5		
13-Aug-05	1	1	2	3	2	2	5	5	4	5	6	13	22	23	24	20	20	20	19	19	21	18	17	17	12.0	23.5		
14-Aug-05	16	17	16	16	13	11	13	14	11	10	8	5	4	3	3	2	3	0	1	0	0	D	0	0	7.1	16.5		
15-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	0.2	1.9		
16-Aug-05	1	3	4	0	0	0	0	0	0	1	1	3	3	1	0	1	0	0	0	1	0	0	0	0	0.9	4.2		
17-Aug-05	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.2	1.0		
18-Aug-05	0	0	0	0	0	3	7	2	2	2	0	0	0	0	0	0	0	1	1	1	1	3	3	0	1.2	7.2		
19-Aug-05	0	0	2	0	3	18	11	2	2	6	8	7	7	2	0	D	D	D	47	52	24	7	6	4	9.8	51.7		
20-Aug-05	6	8	8	8	10	8	3	11	7	5	3	4	2	2	5	7	6	5	2	5	0	4	0	2	4.9	10.9		
21-Aug-05	4	0	2	0	0	4	2	5	4	5	4	12	10	9	7	5	4	1	0	0	0	0	D	0	3.4	12.0		
22-Aug-05	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	1	3	2	0	0.4	2.5		
23-Aug-05	0	2	0	0	0	0	2	3	3	3	2	0	0	3	1	2	0	4	3	0	0	1	0	0	1.2	3.9		
24-Aug-05	0	0	0	0	0	0	2	3	6	4	5	1	0	0	1	0	3	5	5	2	9	6	7	0	2.6	8.8		
25-Aug-05	2	1	9	3	0	2	6	6	3	8	7	7	5	5	7	6	8	6	8	6	5	4	5	3	5.1	8.7		
26-Aug-05	5	4	5	4	1	5	13	9	10	9	0	2	0	4	1	0	5	10	6	4	29	3	3	2	5.6	29.4		
27-Aug-05	2	2	0	0	2	1	13	8	5	7	5	6	3	P	P	5	4	2	0	0	1	1	1	2	3.1	12.6		
28-Aug-05	2	2	1	3	2	2	3	2	2	0	0	0	0	0	0	0	0	0	0	0	2	4	2	0	1.2	4.0		
29-Aug-05	1	1	0	0	0	0	D	D	0	0	0	0	0	0	0	0	0	0	0	1	0	D	D	1	0.2	1.0		
30-Aug-05	0	0	0	0	0	0	0	1	3	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	5.0		
31-Aug-05	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.3	1.7		
Hourly Avg	2.8	2.4	2.5	1.9	1.6	3.9	4.2	3.7	3.0	3.2	2.5	2.9	2.6	2.7	2.2	2.5	2.5	2.6	3.7	4.5	6.8	5.5	4.0	3.5				
Hourly Max	16.5	17.3	16.5	15.7	12.9	41.5	14.1	14.1	10.7	12.0	8.1	13.1	21.5	22.7	23.5	20.3	20.0	20.3	46.9	51.7	48.0	20.5	16.8	34.2				

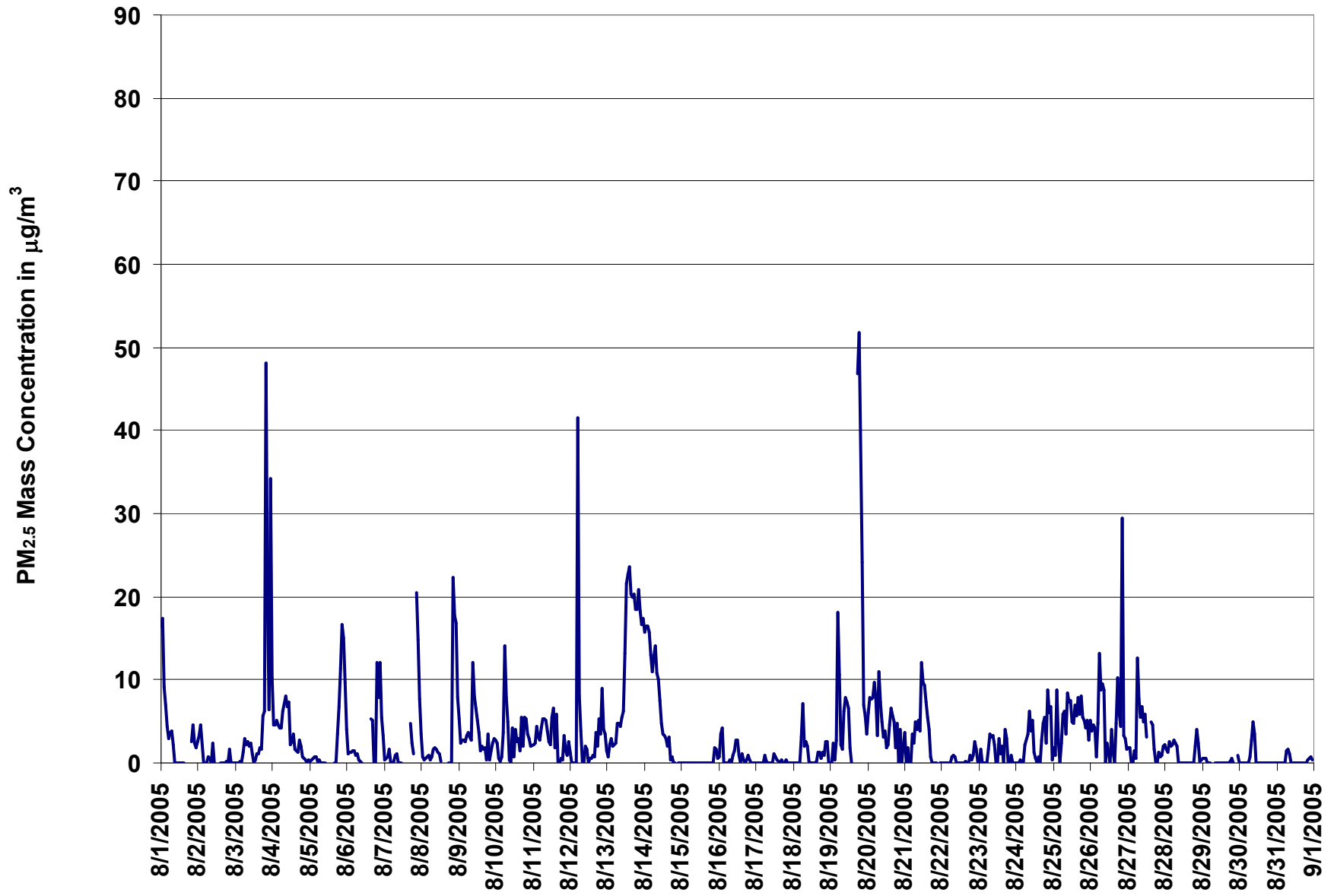


Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

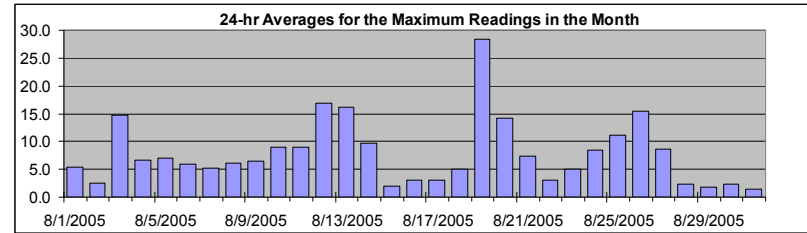
HOURLY MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	186.9	µg/m ³	12-Aug	5:00 6:00
Maximum 24-hr Value:	28.4	µg/m ³	19-Aug	



AIC Time:	0 hrs	Operational Time:	707 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	95.4%						
Percentile	99	95	75	50	25	5	1	Average	Geomean
	53.1	21.5	9.8	4.7	1.8	0.0	0.0	7.9 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																								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-Aug-05	24	20	9	9	5	3	5	7	3	1	0	0	0	0	0	D	D	D	D	6	7	6	2	5.4	24.4	
2-Aug-05	4	4	7	6	1	1	3	2	2	4	2	C	C	C	0	3	1	2	2	3	4	1	0	0	2.4	6.9
3-Aug-05	0	2	1	1	1	3	6	4	5	3	4	4	2	3	4	4	6	14	14	107	59	16	91	14.8	106.9	
4-Aug-05	15	7	7	7	7	6	5	9	11	9	15	6	5	7	9	10	4	8	6	2	2	1	0	1	6.6	14.9
5-Aug-05	0	1	1	1	1	1	1	0	1	1	0	D	D	D	D	D	12	1	7	12	15	33	22	22	7.0	33.3
6-Aug-05	7	2	2	2	2	2	2	3	2	1	1	D	D	D	D	8	8	2	17	16	11	14	13	4	5.9	16.9
7-Aug-05	1	1	1	3	3	0	2	4	4	1	0	0	D	D	D	D	D	7	4	4	D	25	17	16	5.2	25.2
8-Aug-05	4	2	1	1	1	1	1	1	2	2	3	2	2	1	D	D	D	D	2	21	24	25	18	8	6.1	25.1
9-Aug-05	8	4	3	3	3	4	4	4	12	17	13	11	8	8	5	5	6	7	4	10	6	4	4	5	6.5	16.9
10-Aug-05	4	5	2	5	5	13	21	13	7	4	6	11	7	11	8	10	10	14	7	17	14	14	5	3	9.0	20.6
11-Aug-05	3	4	7	5	4	6	7	7	9	6	6	9	18	18	16	28	12	5	5	14	14	5	5	5	9.0	27.5
12-Aug-05	4	2	0	0	1	187	50	11	3	4	9	10	7	7	5	5	4	8	6	14	10	32	14	15	16.9	186.9
13-Aug-05	3	6	5	6	4	6	7	8	9	8	14	25	29	26	29	25	27	23	21	21	24	22	19	19	16.1	29.4
14-Aug-05	19	19	18	17	16	14	15	16	14	12	10	10	8	6	8	6	7	3	4	1	0	D	1	0	9.7	19.1
15-Aug-05	1	0	0	0	0	0	0	0	1	3	1	2	3	1	2	4	2	2	2	2	2	6	8	4	1.9	7.5
16-Aug-05	4	9	9	2	0	1	1	3	1	3	3	5	6	3	2	3	2	3	6	3	2	0	0	1	3.0	9.4
17-Aug-05	2	1	2	0	0	0	5	3	3	3	4	3	6	5	8	4	8	6	4	3	1	0	0	1	3.0	8.4
18-Aug-05	1	6	3	5	4	8	12	8	5	6	3	5	3	2	5	3	6	6	4	7	4	7	6	0	5.0	11.9
19-Aug-05	1	1	15	9	12	53	18	7	5	9	13	12	15	2	2	D	D	D	183	159	38	20	15	7	28.4	182.7
20-Aug-05	16	16	10	10	13	12	16	19	15	17	13	12	13	9	12	21	14	19	24	25	3	9	8	13	14.2	24.9
21-Aug-05	12	3	6	1	4	6	6	9	8	8	14	17	15	13	12	10	10	5	6	4	3	0	D	0	7.4	16.6
22-Aug-05	0	0	0	0	0	0	2	3	4	3	3	4	3	4	5	6	4	6	4	3	3	8	3	4	3.0	7.7
23-Aug-05	1	4	1	0	2	2	7	5	6	6	5	6	8	12	14	8	5	8	9	1	3	5	3	0	5.0	13.7
24-Aug-05	3	2	1	3	2	3	6	6	12	10	11	7	6	5	4	7	8	20	14	15	16	19	17	5	8.4	20.5
25-Aug-05	5	8	26	7	4	6	11	11	8	11	10	12	13	10	13	9	13	10	17	22	10	8	11	10	11.1	26.0
26-Aug-05	10	8	9	10	5	8	18	20	16	13	10	11	13	11	5	3	28	31	11	13	97	7	10	3	15.4	97.0
27-Aug-05	4	7	3	4	8	6	32	15	12	13	11	13	9	P	P	17	22	5	2	1	2	2	2	2	8.7	32.4
28-Aug-05	2	2	2	3	2	3	3	4	3	2	0	0	0	0	0	5	5	1	0	6	6	6	1	1	2.4	6.1
29-Aug-05	1	1	1	1	1	0	D	D	1	1	0	0	2	6	1	3	2	5	5	3	0	D	D	3	1.9	6.5
30-Aug-05	2	1	0	0	0	0	2	2	4	12	11	7	6	3	1	1	1	1	1	1	0	0	0	2	2.4	12.2
31-Aug-05	0	0	1	0	2	0	4	5	3	2	3	2	1	1	1	1	1	0	0	0	1	1	1	1	1.4	5.0
Hourly Avg	5.2	4.7	4.9	3.9	3.6	11.5	9.1	7.0	6.2	6.2	6.4	7.4	7.8	6.8	6.5	7.6	8.4	7.6	13.0	13.8	14.3	11.8	7.7	8.0		
Hourly Max	24.4	19.8	26.0	17.1	15.7	186.9	49.8	20.4	15.5	16.9	14.6	25.1	28.7	26.3	29.4	27.5	27.8	30.5	182.7	158.9	106.9	58.5	22.2	91.1		

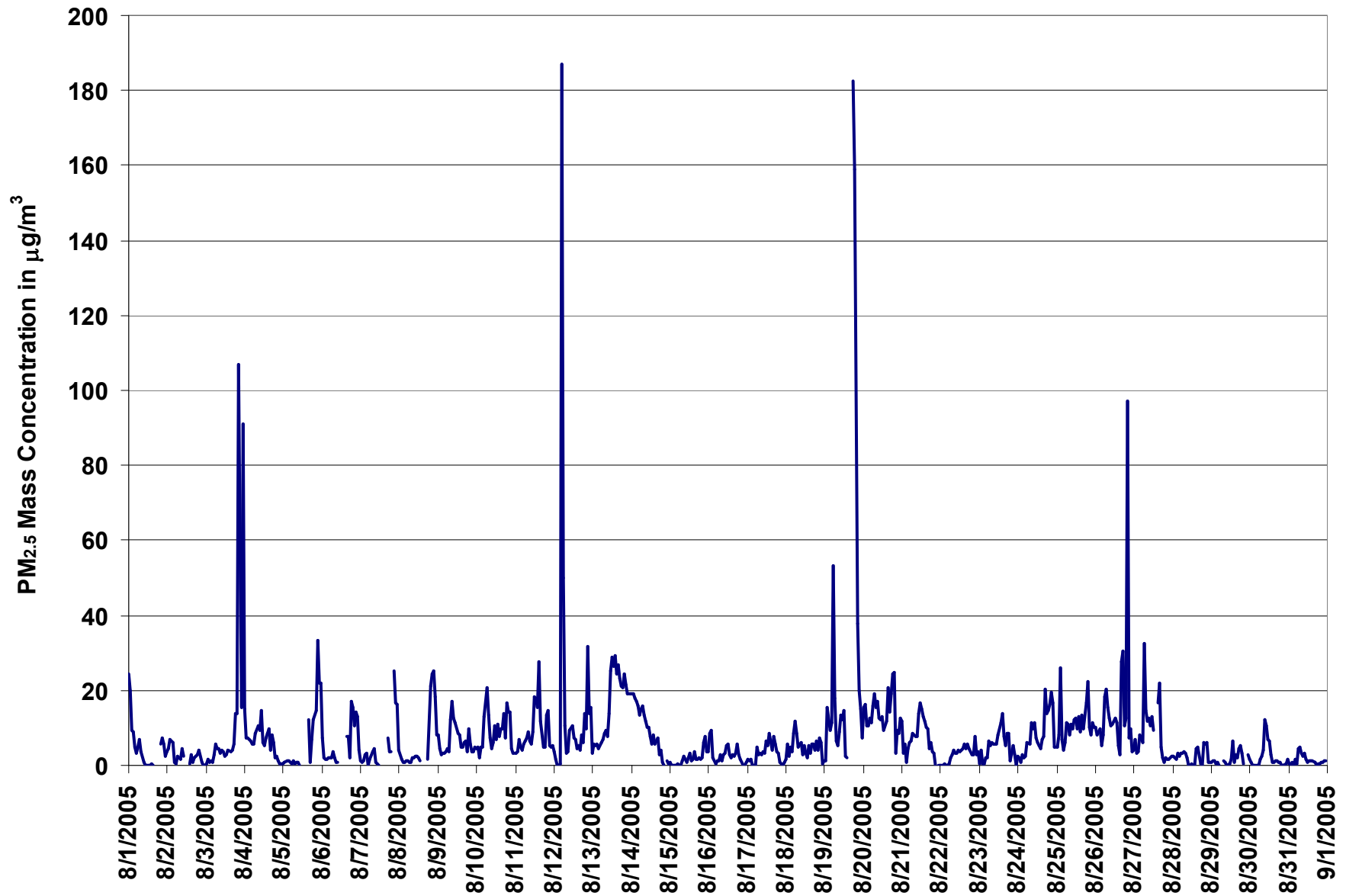
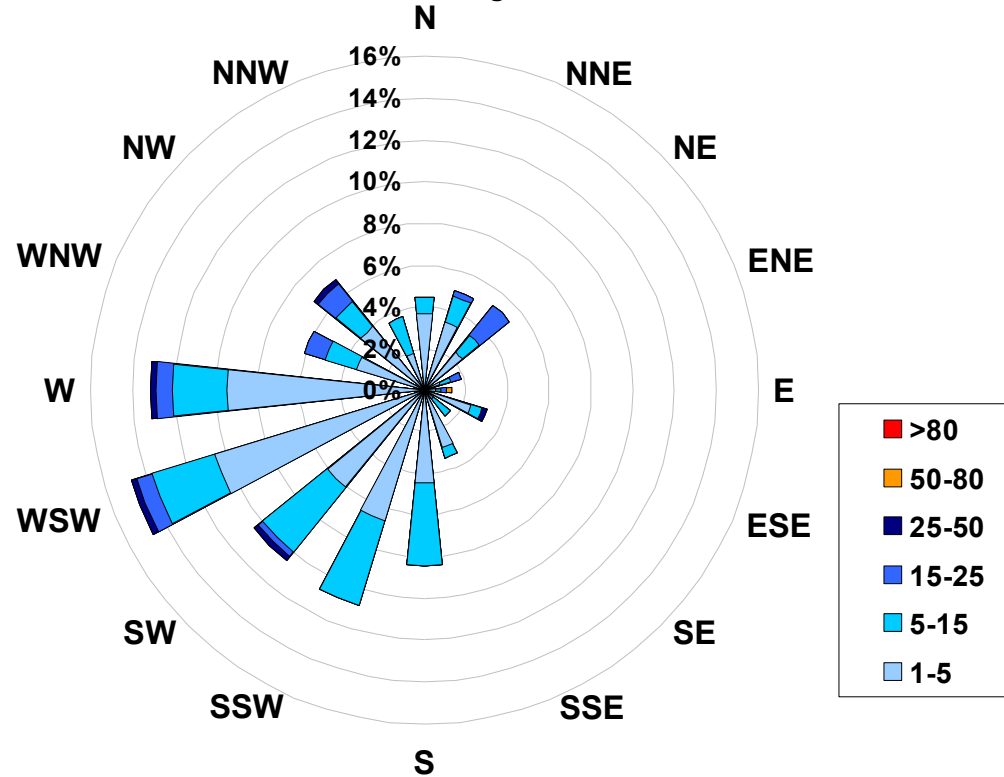


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Smoky Heights Site for August 2005



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range		Frequency (hrs)	
1.0	< 5	565	
5	to 15	110	
15	to 25	26	
25	to 50	5	
50	to 80	1	
	> 80	0	
Total Non-Zero Values			707

PASZA - Smoky Heights Temperature Monthly Summary

HOURLY AVERAGE TABLE

Ambient Temperature (T)

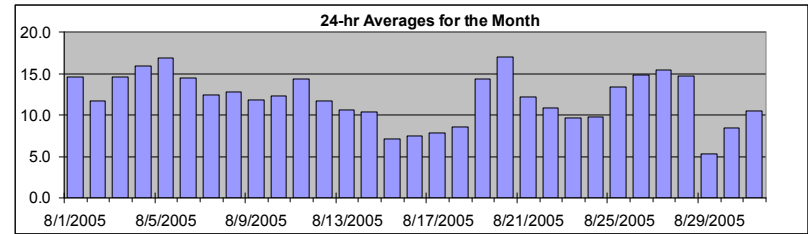
Station: Smoky Heights
 Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	24.9	°C	25-Aug	17:00 18:00
Maximum 24-hr Value:	17.0	°C	20-Aug	

AIC Time:	0 hrs	Operational Time:	742 hrs					
Calibration Time:	0 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	23.9	21.6	15.7	11.8	7.9	3.7	1.0	12.0 °C



Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00			21:00	22:00
1-Aug-05	14	15	14	12	11	10	10	10	12	14	17	17	18	17	17	17	19	18	18	18	16	14	12	10	10	14.6	18.7
2-Aug-05	8	8	8	10	10	10	10	10	11	11	11	12	13	13	14	15	15	15	16	16	14	13	11	10	8	11.7	15.8
3-Aug-05	8	8	8	8	7	7	7	9	11	14	16	18	19	20	21	21	21	22	22	21	18	15	13	11	10	14.5	21.8
4-Aug-05	8	8	7	8	7	8	9	11	13	16	20	21	21	23	23	23	22	23	23	23	22	18	16	15	15	15.9	23.0
5-Aug-05	13	12	13	14	15	14	15	16	18	19	19	20	20	20	20	21	22	21	21	20	18	16	13	12	11	16.8	21.7
6-Aug-05	10	10	10	10	10	9	11	14	15	19	20	20	20	20	19	20	21	16	14	14	13	11	11	9	14.4	20.5	
7-Aug-05	8	7	6	5	5	5	5	7	10	13	14	15	16	17	18	18	19	18	18	18	17	13	10	10	10	12.4	18.7
8-Aug-05	10	11	10	9	9	10	9	10	10	12	13	13	13	16	16	18	17	18	18	17	15	13	11	11	11	12.8	18.0
9-Aug-05	10	12	12	11	10	10	10	10	11	12	13	13	14	14	15	14	14	14	14	14	14	12	9	8	8	11.8	14.8
10-Aug-05	9	8	7	5	4	5	6	10	12	13	15	14	16	16	16	17	18	18	17	16	14	13	13	13	12.3	17.7	
11-Aug-05	13	13	14	14	13	13	14	14	14	14	15	15	16	15	16	17	17	17	16	16	15	13	11	11	11	14.4	17.4
12-Aug-05	10	9	8	6	6	4	6	9	10	11	13	15	15	16	16	16	18	18	18	18	17	13	9	7	6	11.7	18.3
13-Aug-05	5	5	6	5	5	4	5	6	8	12	14	17	16	15	14	15	15	14	13	13	13	12	11	11	10.6	16.9	
14-Aug-05	11	10	10	9	10	10	10	11	11	12	13	13	13	13	13	13	13	12	10	9	8	7	6	6	10.4	13.0	
15-Aug-05	6	5	5	5	5	5	5	5	6	7	7	8	8	9	10	9	9	9	9	9	8	8	7	7	6	7.1	9.6
16-Aug-05	6	6	6	6	6	6	6	6	6	7	7	7	8	9	9	10	10	10	10	10	9	8	8	7	7	7.5	10.0
17-Aug-05	7	7	6	6	5	4	4	6	8	9	9	9	10	11	10	12	12	12	12	12	11	8	4	3	4	7.9	12.3
18-Aug-05	2	0	0	0	-1	-2	0	3	6	9	11	13	15	16	16	17	17	16	16	16	14	11	9	9	9	8.6	16.7
19-Aug-05	8	8	7	5	5	6	6	8	10	12	16	19	21	22	23	23	24	24	23	21	17	13	12	13	14.3	24.3	
20-Aug-05	13	13	13	13	14	13	14	13	14	16	18	20	22	22	22	22	22	23	22	22	20	15	13	15	15	17.0	22.7
21-Aug-05	15	14	13	12	11	11	11	11	11	11	12	12	12	13	13	14	15	15	13	11	11	11	10	9	12.2	15.4	
22-Aug-05	9	8	7	6	6	5	6	9	10	11	12	14	15	16	17	17	16	16	15	12	9	8	8	9	10.8	16.9	
23-Aug-05	7	8	7	5	3	3	3	6	9	12	14	16	15	15	16	16	15	15	14	12	9	6	5	4	9.7	15.8	
24-Aug-05	3	3	2	2	1	0	1	3	5	7	11	16	18	18	19	19	20	20	18	16	12	9	7	5	9.7	19.9	
25-Aug-05	4	5	4	4	2	3	3	6	8	12	16	18	21	22	23	24	25	25	24	21	15	13	11	10	13.4	24.9	
26-Aug-05	9	8	8	8	6	6	7	10	13	16	20	21	22	23	23	23	23	22	22	22	19	14	12	11	10	14.8	22.9
27-Aug-05	9	8	7	7	5	6	5	10	13	17	20	22	23	P	P	25	24	23	22	20	18	19	19	19	15.4	24.6	
28-Aug-05	18	17	15	13	14	12	12	13	15	15	15	18	17	17	18	17	17	17	17	16	14	12	11	11	11	14.7	18.1
29-Aug-05	11	10	10	9	8	6	5	5	4	4	3	4	4	4	5	5	5	6	6	6	5	3	2	2	5.4	10.5	
30-Aug-05	3	3	3	2	2	2	2	3	4	5	9	13	15	15	15	15	15	15	16	15	13	11	8	7	7	8.4	15.6
31-Aug-05	7	6	5	4	5	5	6	7	10	11	14	15	16	16	17	17	16	15	14	11	9	10	8	7	10.5	16.9	
Hourly Avg	8.8	8.6	8.1	7.6	7.0	6.7	7.3	9.0	10.5	12.3	13.8	15.2	16.0	16.3	16.5	17.2	17.3	17.0	16.3	14.7	12.3	10.4	9.6	9.2			
Hourly Max	18.1	17.0	14.9	14.1	14.8	13.8	15.1	16.4	17.8	18.9	20.0	21.5	23.2	22.9	23.4	24.6	24.8	24.9	24.3	21.6	18.3	18.5	18.6	18.8			

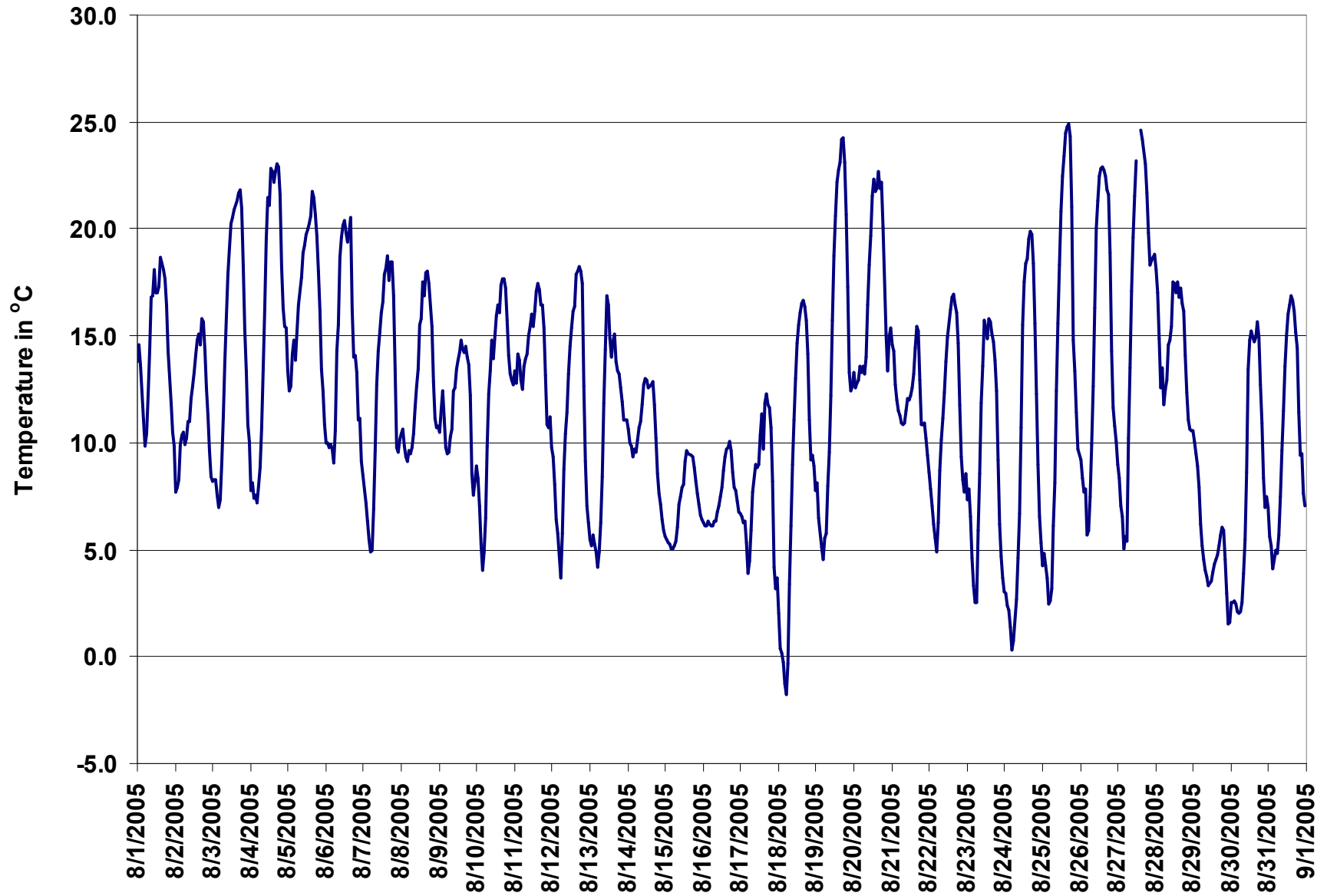


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend

PASZA - Smoky Heights Scalar Wind Speed Monthly Summary

HOURLY AVERAGE TABLE

Wind Speed (WSs)

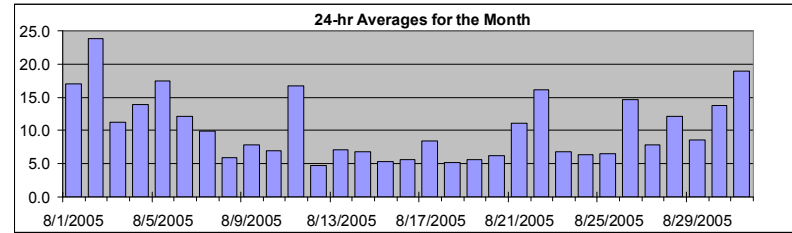
Station: Smoky Heights
 Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	34.9	km/hr	2-Aug	8:00 9:00
Maximum 24-hr Value:	23.8	km/hr	2-Aug	

Calm Time:	0 hrs	0% calms	Operational Time:	742 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.7%				
Percentile	99	95	75	50	25	5	1	AverageS
	31.1	26.0	12.8	8.0	5.7	3.2	1.9	10.3 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	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-Aug-05	10	15	9	4	4	5	8	8	7	21	25	30	26	29	23	28	26	22	18	21	21	18	16	14	17.0	30.4	
2-Aug-05	10	14	15	27	27	25	28	31	35	31	32	30	29	28	34	31	28	29	23	17	11	11	13	12	23.8	34.9	
3-Aug-05	15	13	15	15	14	16	7	8	7	13	8	14	19	17	17	15	15	13	7	2	4	4	7	6	11.3	18.6	
4-Aug-05	5	5	7	9	8	8	8	9	10	11	14	26	24	25	30	24	20	20	17	12	10	11	12	12	14.0	30.0	
5-Aug-05	10	11	11	16	16	15	17	19	22	29	30	27	25	26	24	27	22	18	10	8	7	8	10	11	17.4	29.6	
6-Aug-05	11	11	11	10	9	8	7	10	11	15	20	19	22	18	15	8	8	21	11	7	8	8	12	11	12.1	21.7	
7-Aug-05	15	12	13	13	14	14	5	7	5	10	14	14	14	12	11	10	11	11	7	7	4	3	4	5	9.8	14.6	
8-Aug-05	3	16	7	4	5	9	10	7	5	5	3	4	5	7	7	4	5	5	3	4	6	7	8	8	5.9	15.8	
9-Aug-05	8	9	15	12	13	11	8	9	10	7	9	9	9	8	7	8	7	7	5	2	4	6	4	2	7.8	14.9	
10-Aug-05	1	2	3	3	2	4	4	1	2	5	7	4	8	7	8	9	13	14	12	10	9	11	12	13	6.9	13.8	
11-Aug-05	13	13	19	17	10	12	19	22	22	22	24	22	24	19	22	22	22	20	17	13	8	8	6	6	16.7	24.5	
12-Aug-05	5	7	5	7	7	3	3	4	4	4	3	5	5	4	3	6	5	6	5	2	3	4	6	5	4.7	7.4	
13-Aug-05	6	7	6	7	7	8	8	8	8	7	6	13	19	15	7	4	8	8	4	4	2	2	3	3	7.1	18.6	
14-Aug-05	5	6	6	7	5	3	4	7	7	8	6	6	8	7	6	7	8	8	8	7	9	9	10	8	6.9	10.1	
15-Aug-05	4	3	3	3	4	4	4	6	6	6	6	6	6	7	8	10	7	6	8	6	5	3	3	3	5.3	9.9	
16-Aug-05	3	5	6	6	6	5	7	8	9	7	6	6	5	6	6	4	7	6	6	5	3	5	6	7	5.7	8.6	
17-Aug-05	6	5	7	9	8	8	8	9	9	7	9	11	12	11	10	14	13	8	9	6	6	7	6	6	8.4	13.5	
18-Aug-05	1	4	4	3	5	3	3	3	4	5	6	5	5	6	6	6	8	9	10	7	6	5	5	5	5.2	9.9	
19-Aug-05	4	4	4	4	5	3	5	7	8	7	6	5	6	8	8	10	6	6	8	7	4	3	3	4	5.6	9.8	
20-Aug-05	5	4	5	6	6	5	6	5	4	9	8	9	12	13	10	6	8	6	3	2	1	5	4	6	6.2	13.0	
21-Aug-05	7	6	6	6	11	12	7	4	7	8	10	9	13	13	10	9	9	13	22	12	13	18	15	22	11.1	22.0	
22-Aug-05	19	18	17	18	13	14	15	21	22	21	20	24	20	17	18	18	17	17	14	10	10	7	6	12	16.1	23.6	
23-Aug-05	12	9	7	8	9	7	5	4	4	5	6	7	5	6	10	8	7	10	9	8	3	3	5	5	6.7	11.8	
24-Aug-05	6	4	6	7	5	3	4	6	7	8	7	8	9	11	10	10	8	6	9	7	2	2	4	5	6.3	11.1	
25-Aug-05	5	4	7	9	9	7	8	9	9	9	9	9	8	8	8	6	8	4	4	4	2	2	5	6	6.5	9.5	
26-Aug-05	5	6	8	7	8	8	7	8	9	10	18	23	25	33	30	27	26	21	22	16	6	8	8	11	14.6	32.5	
27-Aug-05	12	11	8	5	6	6	6	7	4	5	7	9	8	P	P	4	7	7	7	7	8	10	10	17	7.8	16.7	
28-Aug-05	17	15	8	7	6	5	6	5	9	31	31	15	25	21	22	14	10	6	7	7	6	8	6	4	12.1	31.2	
29-Aug-05	9	11	12	13	10	12	11	13	11	10	10	10	8	5	8	7	5	5	7	7	7	6	7	5	8.6	13.3	
30-Aug-05	5	3	4	4	8	7	9	10	9	7	8	15	24	25	29	28	20	21	20	16	15	12	13	17	13.8	29.3	
31-Aug-05	15	11	12	13	14	11	13	13	20	24	25	28	27	28	30	34	29	27	23	10	10	10	11	13	18.9	33.8	
1-hr Average	8.1	8.5	8.6	9.0	8.8	8.4	8.5	9.3	9.8	11.8	12.7	13.6	14.7	14.6	14.7	13.4	12.7	12.2	10.8	8.1	6.8	7.2	7.7	8.4			
Hourly Max	19.0	18.1	19.2	26.7	26.5	24.8	28.4	31.2	34.9	31.2	31.7	30.4	29.5	32.5	34.1	33.8	29.5	28.7	23.4	20.6	20.6	18.5	16.2	22.0			

PASZA - Smoky Heights Vector Wind Speed Monthly Summary

HOURLY AVERAGE TABLE

Wind Speed (WSv)

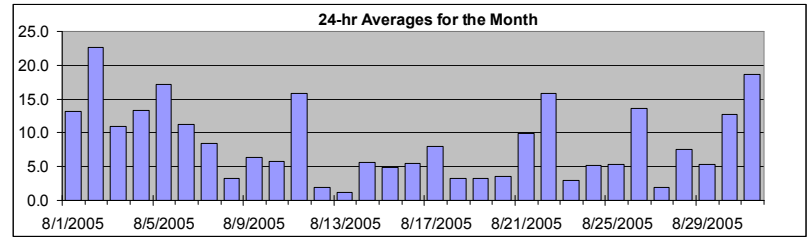
Station: Smoky Heights
Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	34.8	km/hr	2-Aug	8:00 9:00
Maximum 24-hr Value:	22.7	km/hr	2-Aug	

Calm Time:	4 hrs	1% calms	Operational Time:	738 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.7%				
Percentile	99	95	75	50	25	5	1	AverageV
	30.9	25.8	12.7	7.6	5.1	2.5	1.4	35.8 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	
1-Aug-05	9	15	9	4	4	3	4	6	6	21	25	30	26	29	23	27	26	21	18	20	20	18	16	14	13.2	30.2
2-Aug-05	10	14	15	27	26	25	28	31	35	31	32	30	29	28	34	31	28	28	22	17	10	11	13	12	22.7	34.8
3-Aug-05	15	13	15	14	14	16	6	8	6	13	6	13	18	16	16	14	15	12	7	2	4	4	7	6	10.9	17.9
4-Aug-05	4	5	7	9	7	8	8	8	9	10	13	26	24	25	30	23	20	20	17	12	10	12	12	12	13.3	29.8
5-Aug-05	10	11	10	16	16	15	16	19	22	28	29	26	24	26	24	27	22	18	10	8	7	8	10	10	17.2	29.2
6-Aug-05	11	11	11	10	9	8	7	9	11	15	20	18	21	17	15	8	8	21	8	6	8	6	11	11	11.3	21.5
7-Aug-05	15	12	13	13	14	14	5	7	4	9	14	13	14	12	10	9	11	11	6	7	4	2	4	4	8.5	14.6
8-Aug-05	2	16	7	3	4	8	9	7	5	4	2	2	3	6	4	2	3	3	4	2	4	6	6	8	3.3	15.5
9-Aug-05	8	8	15	12	13	11	8	9	9	7	9	8	9	8	6	8	7	6	5	2	4	6	4	1	6.3	14.6
10-Aug-05	1	2	3	2	2	4	4	calm	2	4	6	3	6	5	7	7	12	13	12	10	9	11	12	13	5.8	13.2
11-Aug-05	13	13	19	17	9	10	19	22	21	22	24	21	23	18	21	22	21	19	16	12	7	8	5	6	15.9	24.0
12-Aug-05	5	7	5	7	6	2	3	3	4	3	calm	1	2	1	3	2	4	5	5	2	3	4	6	5	1.9	7.3
13-Aug-05	6	7	6	7	7	8	8	8	8	6	5	12	18	15	7	4	8	8	4	4	1	calm	3	3	1.2	18.3
14-Aug-05	5	6	6	7	5	2	4	7	7	8	5	5	8	7	6	6	7	7	7	7	9	9	10	7	5.6	9.9
15-Aug-05	3	3	3	2	4	4	4	6	6	6	5	6	6	5	7	9	7	5	8	6	5	3	3	3	4.9	9.4
16-Aug-05	3	5	6	6	6	5	7	8	9	7	6	6	5	6	6	4	6	6	5	5	3	5	6	6	5.5	8.5
17-Aug-05	6	5	7	9	8	7	8	9	8	7	8	10	11	10	9	13	12	7	8	6	6	7	6	5	8.0	13.1
18-Aug-05	1	3	3	3	5	1	3	3	4	5	6	3	2	5	5	5	6	9	10	7	6	5	5	5	3.3	9.7
19-Aug-05	4	4	3	3	4	3	5	6	7	6	6	4	5	6	7	9	5	5	8	7	3	3	3	4	3.2	8.6
20-Aug-05	4	4	5	6	4	4	4	4	2	9	8	9	11	12	9	6	8	5	1	2	1	5	4	5	3.6	12.1
21-Aug-05	7	6	6	6	11	10	5	4	7	8	10	9	13	12	10	9	9	12	21	12	13	18	15	22	9.9	21.9
22-Aug-05	19	18	17	18	13	14	15	21	22	21	20	23	20	16	17	17	16	17	14	10	10	7	6	12	15.9	23.3
23-Aug-05	11	8	6	7	8	7	5	4	3	4	5	5	3	4	9	2	7	10	8	8	3	2	4	4	2.9	11.2
24-Aug-05	6	4	6	6	5	3	4	6	7	8	6	7	8	10	9	9	7	5	8	6	2	2	4	5	5.2	10.3
25-Aug-05	4	4	7	9	9	7	8	9	9	9	9	9	7	7	6	4	3	1	3	3	1	2	5	5	5.3	9.2
26-Aug-05	5	6	8	7	8	8	7	7	9	9	17	23	24	32	30	27	26	21	22	16	6	8	8	11	13.6	32.2
27-Aug-05	12	10	7	5	5	5	5	7	4	5	7	8	7	P	P	calm	7	7	7	7	8	9	9	16	2.0	16.5
28-Aug-05	17	15	8	6	6	5	6	3	9	31	31	15	24	21	21	14	7	6	7	6	6	6	6	3	7.5	31.0
29-Aug-05	8	11	11	13	10	12	11	13	11	10	10	10	7	5	8	7	5	5	6	7	7	6	7	5	5.4	13.0
30-Aug-05	5	3	4	4	8	7	9	10	9	7	8	12	24	25	29	28	20	21	20	16	15	12	13	16	12.8	28.9
31-Aug-05	15	11	12	13	13	11	13	13	20	24	25	28	27	28	29	33	29	27	23	10	9	10	11	13	18.7	33.3
1-hr Vector	4.7	4.6	4.8	5.4	5.7	5.8	5.0	4.7	4.4	6.0	7.1	8.5	9.0	9.8	9.3	8.3	7.4	7.0	5.4	3.5	3.5	4.7	4.6	5.6		
Hourly Max	18.9	18.0	19.1	26.6	26.3	24.7	28.3	31.1	34.8	31.0	31.5	30.2	29.3	32.2	33.9	33.3	29.2	28.0	23.3	20.4	20.4	18.1	16.2	21.9		

PASZA - Smoky Heights Wind Direction Monthly Summary

HOURLY AVERAGE TABLE

Wind Direction (WD)

Station: Smoky Heights
 Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	742 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.7%				
Percentile	99	95	75	50	25	5	1	Average
	356.7	342.6	272.1	245.2	177.7	23.7	3.8	266 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

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	24-hour Average	WD Sector
1-Aug-05	48	60	59	28	351	343	249	210	201	257	254	251	252	249	259	252	263	255	252	248	248	254	242	237	254	WSW	
2-Aug-05	225	213	221	240	248	256	261	263	267	263	267	284	286	291	275	272	269	278	282	274	278	260	262	249	266	W	
3-Aug-05	256	270	268	270	268	268	255	233	238	252	247	227	254	257	245	236	240	257	230	208	231	243	270	251	252	WSW	
4-Aug-05	225	261	232	204	202	209	208	205	205	224	222	259	251	248	256	254	245	252	245	258	249	226	225	241	240	WSW	
5-Aug-05	262	252	250	261	265	264	260	259	261	270	271	275	283	276	278	276	283	281	273	252	260	278	277	273	270	W	
6-Aug-05	280	267	267	265	253	258	226	236	246	256	269	277	287	278	293	289	278	275	302	200	226	241	302	265	269	W	
7-Aug-05	273	270	270	269	273	273	253	250	254	311	314	322	324	319	299	320	305	319	356	24	351	301	332	338	299	WNW	
8-Aug-05	223	270	258	307	240	283	346	358	22	11	297	256	280	303	7	83	30	50	72	105	286	289	281	270	308	NW	
9-Aug-05	263	286	337	356	356	355	1	23	22	25	34	37	48	41	31	34	41	41	7	358	342	323	312	326	7	N	
10-Aug-05	57	248	267	348	2	274	271	135	123	174	235	301	228	277	288	276	273	297	301	287	269	273	277	274	276	W	
11-Aug-05	270	262	298	302	286	298	327	322	325	330	325	327	311	322	324	330	329	329	327	323	326	317	345	357	318	NW	
12-Aug-05	36	41	25	12	15	313	2	60	86	179	184	231	255	291	55	313	315	310	317	218	255	283	279	240	326	NW	
13-Aug-05	213	205	214	212	219	216	217	203	179	172	127	46	49	41	45	44	32	53	84	54	218	238	266	305	113	ESE	
14-Aug-05	313	308	317	298	314	328	333	0	8	21	17	11	351	341	350	352	18	54	14	35	48	51	49	54	7	N	
15-Aug-05	46	346	354	6	25	31	41	51	58	69	72	65	93	73	80	87	69	57	68	80	62	41	27	34	60	ENE	
16-Aug-05	36	23	26	27	29	57	34	30	36	41	28	26	10	351	360	31	29	17	27	38	356	356	1	9	23	NNE	
17-Aug-05	2	353	354	359	353	340	342	353	7	26	351	332	330	332	339	342	355	349	324	318	332	307	308	324	343	NNW	
18-Aug-05	40	338	81	275	251	266	183	172	170	166	136	219	127	187	138	125	114	106	97	87	83	121	151	148	134	SE	
19-Aug-05	149	152	244	246	245	239	245	199	187	180	175	193	172	146	144	116	109	114	116	93	59	15	338	249	161	SSE	
20-Aug-05	244	209	200	231	319	163	282	217	109	110	132	154	164	195	191	186	196	177	155	262	342	311	327	275	194	SSW	
21-Aug-05	302	316	192	202	241	250	183	190	180	205	255	246	228	215	206	221	211	251	257	241	220	244	241	242	234	SW	
22-Aug-05	235	234	244	259	264	263	257	258	258	260	259	258	258	253	259	263	259	269	266	268	268	272	272	226	257	WSW	
23-Aug-05	195	197	225	244	235	197	234	217	243	186	121	232	345	308	120	86	357	318	304	303	0	216	228	247	238	WSW	
24-Aug-05	264	258	258	251	208	211	201	206	188	165	178	190	170	182	168	198	224	222	155	160	187	270	241	261	201	SSW	
25-Aug-05	243	231	237	222	230	213	201	197	185	186	178	181	190	209	221	199	246	102	93	57	190	248	248	228	206	SSW	
26-Aug-05	231	225	198	201	251	252	226	226	185	183	246	260	259	260	265	261	242	241	251	268	260	270	261	269	249	WSW	
27-Aug-05	274	247	228	223	226	258	241	197	206	132	124	146	148	P	P	285	67	49	44	34	38	64	105	145	154	SSE	
28-Aug-05	161	164	195	211	183	204	218	283	236	265	270	269	256	258	259	274	317	15	18	25	326	283	95	23	255	WSW	
29-Aug-05	357	0	16	34	18	359	12	10	6	352	353	353	342	348	306	292	303	268	238	223	208	210	219	263	344	NNW	
30-Aug-05	246	254	205	177	208	216	211	219	209	190	185	216	250	249	255	255	256	268	249	241	245	261	267	258	243	WSW	
31-Aug-05	245	221	231	231	242	245	256	251	248	250	255	264	261	261	256	248	253	254	254	248	260	255	238	255	251	WSW	
Hourly Avg	254	255	260	264	264	264	264	258	250	255	262	268	269	268	268	268	276	281	279	272	270	270	268	258			

PASZA - Smoky Heights Standard Deviation of Wind Direction Monthly Summary

HOURLY AVERAGE TABLE

Wind Direction (WD)

Station: Smoky Heights
 Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	742 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	99.7%			
Percentile	99	95	75	50	25	5	1
	58.5	42.9	16.9	9.6	6.4	3.6	2.5

Status Flag Characters

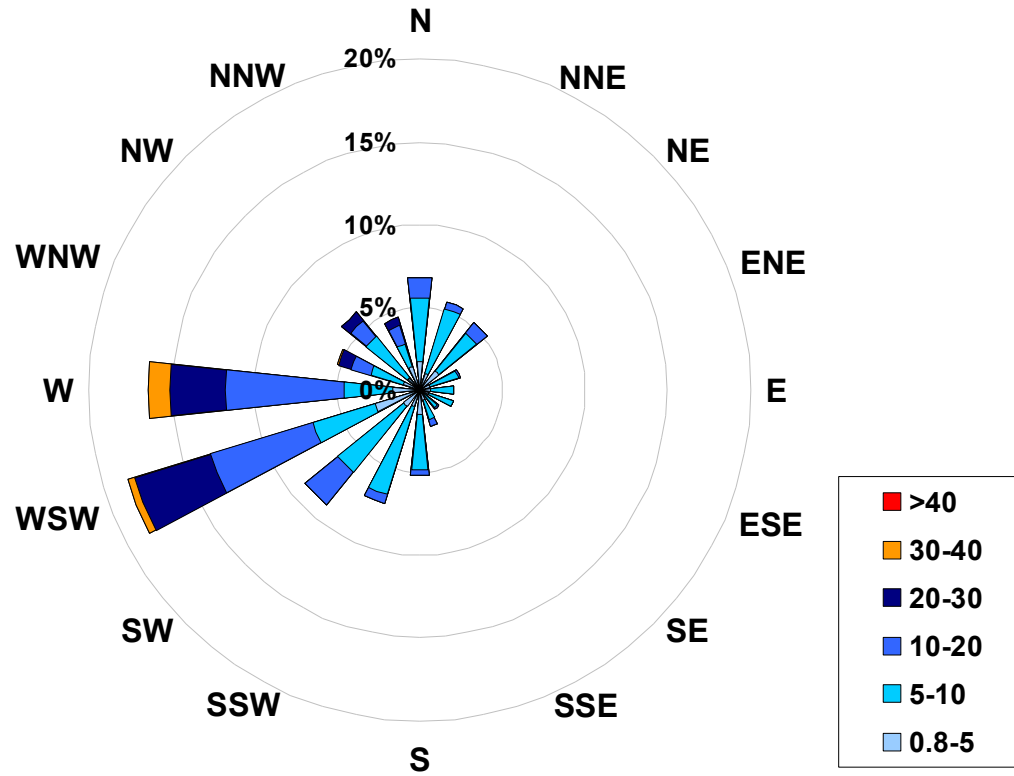
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

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	Daily Maximum
1-Aug-05	9	5	7	16	22	19	44	22	19	7	6	5	6	4	7	8	9	9	7	5	5	5	4	5	43.7
2-Aug-05	6	4	6	4	4	4	4	4	5	4	5	5	6	6	6	7	5	6	9	5	20	18	2	3	19.9
3-Aug-05	3	3	4	2	3	3	34	14	21	9	34	17	12	15	19	11	11	12	13	18	6	10	6	8	34.0
4-Aug-05	13	11	10	6	6	3	7	16	9	11	17	8	7	10	7	8	8	6	5	11	7	8	5	5	16.5
5-Aug-05	4	4	7	5	3	5	4	4	6	6	9	8	8	7	11	11	7	7	4	5	5	6	5	5	11.2
6-Aug-05	6	4	4	3	5	10	7	8	7	10	11	12	8	8	8	13	16	10	17	10	4	9	5	7	17.4
7-Aug-05	4	4	4	3	3	3	26	8	34	21	13	18	13	21	22	22	10	10	16	7	7	23	5	40	40.5
8-Aug-05	35	15	9	16	25	12	6	12	12	26	45	70	48	33	31	32	51	45	20	37	19	9	5	5	69.7
9-Aug-05	5	7	6	7	4	6	8	8	9	19	12	15	22	14	22	14	11	19	15	18	8	6	5	51	51.1
10-Aug-05	24	39	10	24	13	20	9	47	51	31	36	29	36	44	19	32	18	14	10	6	3	4	3	3	51.1
11-Aug-05	2	4	7	4	7	11	7	7	8	10	11	13	7	13	9	11	11	9	7	7	6	3	27	9	27.2
12-Aug-05	9	8	7	5	43	12	13	16	33	45	63	49	77	58	51	60	52	37	10	30	13	12	6	11	77.3
13-Aug-05	10	8	9	3	30	5	6	5	8	12	21	11	10	8	15	24	16	9	21	12	64	48	15	13	64.5
14-Aug-05	8	7	5	6	10	13	21	11	9	10	20	30	13	12	12	10	15	8	8	9	7	7	8	7	30.1
15-Aug-05	11	13	14	17	10	10	8	9	9	15	20	26	18	29	43	14	22	16	10	6	7	12	9	9	43.3
16-Aug-05	8	10	8	6	6	8	6	6	7	11	12	13	15	15	13	22	11	15	16	10	11	6	5	8	22.3
17-Aug-05	10	9	8	8	8	6	7	11	17	25	16	15	19	28	17	13	18	17	12	15	9	11	8	10	28.0
18-Aug-05	33	44	14	28	15	35	18	17	15	19	29	59	49	46	42	38	34	16	9	5	6	9	11	11	59.2
19-Aug-05	30	17	20	11	6	8	5	12	11	17	22	42	41	49	37	38	27	39	7	4	15	12	10	12	48.6
20-Aug-05	7	9	11	13	25	47	37	39	23	8	18	15	20	20	12	18	14	35	41	21	41	12	8	52	52.4
21-Aug-05	14	19	12	8	5	20	27	11	9	9	15	10	8	7	7	14	9	10	6	6	6	4	4	4	27.4
22-Aug-05	3	4	3	3	4	4	4	3	4	5	8	9	12	12	13	11	12	5	3	6	2	5	11	6	13.3
23-Aug-05	5	13	18	9	13	7	13	16	28	38	37	45	33	33	34	50	18	13	9	11	23	64	30	14	63.9
24-Aug-05	7	14	11	18	8	45	31	10	8	9	20	18	20	23	24	29	22	37	14	4	13	17	9	3	44.9
25-Aug-05	6	10	5	3	4	6	4	6	5	10	13	17	31	30	37	47	47	44	29	13	42	8	6	8	47.4
26-Aug-05	8	5	3	10	4	6	8	7	6	8	12	7	8	7	10	8	7	7	6	6	12	9	6	2	12.1
27-Aug-05	3	8	8	13	9	9	9	7	23	21	17	15	31	P	P	51	13	9	4	11	10	10	10	5	51.2
28-Aug-05	5	4	10	19	8	18	10	62	20	6	5	15	9	10	9	9	19	14	9	11	22	30	22	27	61.7
29-Aug-05	10	9	7	8	8	7	7	6	8	9	9	9	13	22	11	10	13	21	11	6	5	10	10	7	21.7
30-Aug-05	13	14	15	11	7	5	4	7	7	9	12	19	9	8	8	6	5	7	6	3	3	3	6	2	19.5
31-Aug-05	2	8	7	4	8	4	5	4	5	6	7	10	10	8	11	8	6	6	5	5	7	4	5	5	10.5

Hourly Max	35	44	20	28	43	47	44	62	51	45	63	70	77	58	51	60	52	45	41	37	64	64	30	52
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1-hr Average Wind Rose (in km/hr) Located at the Smoky Heights Site for August 205



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range		Frequency (hrs)	
0.8	< 5	140	
5	to 10	337	
10	to 20	175	
20	to 30	76	
30	to 40	14	
	> 40	0	
Total Non-Zero Values			742

PASZA – Beaverlodge Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Beaverlodge AQI Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

Air Quality Index (AQI)

Monitoring Dates: August 1, 2005 to September 1, 2005

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:	716
Number of 1-hr Fair Readings:	8
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day	Mountain Standard Time																							
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1-Aug-05	7	5	6	6	4	3	6	8	10	13	14	16	14	14	15	15	15	15	14	14	14	12	11	11
2-Aug-05	9	11	12	12	10	9	8	8	8	9	9	9	9	9	10	11	11	9	9	8	6	8	6	
3-Aug-05	5	5	5	5	4	4	4	5	7	9	12	13	14	15	16	16	16	16	12	14	9	9	12	10
4-Aug-05	8	10	9	8	6	5	5	6	7	8	9	11	11	10	12	14	15	15	15	13	12	10	12	11
5-Aug-05	11	12	12	11	11	11	11	12	12	14	14	14	15	14	15	14	15	14	14	12	12	11	11	10
6-Aug-05	11	11	11	11	8	5	6	9	11	12	12	12	11	11	12	13	12	11	11	15	17	15	14	16
7-Aug-05	15	15	12	11	9	8	7	7	9	9	11	12	13	14	14	14	12	12	12	12	12	9	9	14
8-Aug-05	15	11	10	11	7	6	6	6	7	9	11	12	13	13	13	12	13	13	14	13	12	15	15	13
9-Aug-05	14	13	13	12	10	11	11	12	12	12	13	16	17	15	16	16	13	11	11	12	9	7	8	7
10-Aug-05	7	7	6	3	3	1	7	5	6	9	13	16	17	17	18	18	18	16	16	14	11	9	11	11
11-Aug-05	10	7	5	5	5	5	7	9	10	11	11	12	12	12	12	12	12	11	13	14	13	12	10	10
12-Aug-05	A	11	10	9	9	10	10	10	10	11	12	15	16	16	17	18	18	18	19	18	13	12	12	13
13-Aug-05	12	6	5	3	2	3	4	9	6	8	15	19	23	21	28	30	28	29	28	28	27	31	19	20
14-Aug-05	21	20	19	14	12	11	13	10	11	11	11	11	11	11	14	13	12	11	10	10	9	11	11	11
15-Aug-05	10	11	10	10	9	8	6	7	8	8	7	9	9	10	10	10	10	9	9	9	7	6	6	7
16-Aug-05	7	8	8	10	9	9	9	8	9	10	10	10	10	10	11	10	10	10	10	9	8	4	3	5
17-Aug-05	6	5	3	4	6	5	5	5	5	6	9	13	13	14	14	14	15	14	14	13	12	9	5	5
18-Aug-05	8	9	6	3	3	3	5	3	4	6	9	A	16	17	17	16	17	18	17	15	12	11	11	10
19-Aug-05	9	9	6	6	4	4	5	6	9	9	11	13	14	A	A	A	13	13	11	9	10	10	9	10
20-Aug-05	11	9	9	11	5	8	13	7	11	8	12	17	20	19	19	16	15	15	15	12	A	A	A	A
21-Aug-05	A	A	A	A	A	A	A	A	A	A	A	18	18	18	18	17	15	16	15	15	13	14	15	14
22-Aug-05	14	14	12	11	11	11	9	9	10	12	13	13	14	14	14	14	13	12	11	10	11	11	10	11
23-Aug-05	8	9	9	9	8	8	7	7	7	9	11	13	14	13	13	15	16	16	11	11	11	12	9	9
24-Aug-05	6	7	6	5	5	4	3	12	4	6	8	13	17	18	19	19	19	18	17	15	16	14	14	14
25-Aug-05	12	10	11	7	7	6	5	6	8	10	12	15	17	16	16	16	16	16	14	9	12	11	11	9
26-Aug-05	7	8	7	7	7	7	7	6	10	10	16	21	20	19	19	19	20	21	20	19	16	16	15	16
27-Aug-05	15	15	14	13	12	12	9	8	9	7	12	16	19	22	23	23	22	24	23	22	19	18	17	13
28-Aug-05	10	8	6	8	8	7	7	8	20	23	22	22	23	22	22	22	23	22	19	22	22	18	14	15
29-Aug-05	14	9	7	7	6	6	7	7	7	7	7	7	7	8	9	9	9	10	10	8	4	4	5	5
30-Aug-05	4	4	4	2	2	2	1	4	5	7	10	13	14	14	14	15	15	15	16	14	14	14	14	13
31-Aug-05	14	15	15	13	12	10	10	11	12	15	16	17	17	18	19	19	18	19	19	17	17	16	15	14

PASZA - Beaverlodge Sulphur Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Station: Beaverlodge
 Station Owner: PASZA

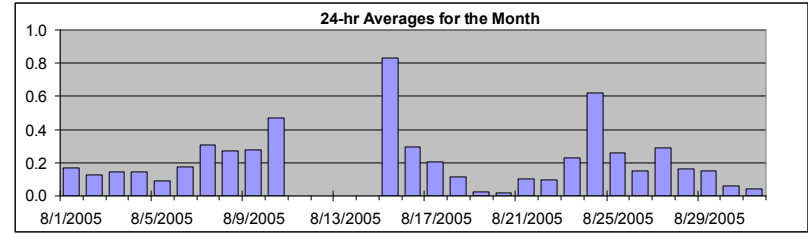
Monitoring Dates: August 1, 2005 to September 1, 2005

Objective Limit: Alberta Environment: 1-hr 172 ppb 24-hr 57 ppb

Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	6.6 ppb 24-Aug 18:00 19:00
Maximum 24-hr Average:	0.8 ppb 15-Aug

AIC Time:	0 hrs	Operational Time:	668 hrs					
Calibration Time:	6 hrs	AMD Operational Uptime:	90.6%					
Percentile	99	95	75	50	25	5	1	Average
	1.8	0.7	0.3	0.2	0.1	0.0	0.0	0.2 ppb



Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum						
	Hour Start	Hour End	0:00	1:00	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-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2
2-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
3-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
4-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
5-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
6-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
7-Aug-05	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.0	
8-Aug-05	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6	
9-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6	
10-Aug-05	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	0	1	1	0	0	1	1	0	0	0	0.5	1.2		
11-Aug-05	0	0	0	0	0	1	2	1	0	0	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	1.6	
12-Aug-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
13-Aug-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
14-Aug-05	N	N	N	N	N	N	N	N	N	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	N	1.9	
15-Aug-05	1	0	0	0	2	2	2	2	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	1.9	
16-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
17-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2	
18-Aug-05	0	0	0	0	0	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
19-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	
20-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	
21-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
22-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
23-Aug-05	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9	
24-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	1	0	0	1	2	0.6	6.6		
25-Aug-05	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.2		
26-Aug-05	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6		
27-Aug-05	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.3	0.7	
28-Aug-05	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6		
29-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5		
30-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2		
31-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1		
Hourly Avg	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2			
Hourly Max	1.2	0.6	0.5	0.6	1.7	1.7	1.7	1.7	1.8	1.9	1.9	1.9	1.9	1.2	0.7	0.9	0.6	1.3	6.6	1.1	0.5	0.8	0.7	2.2							

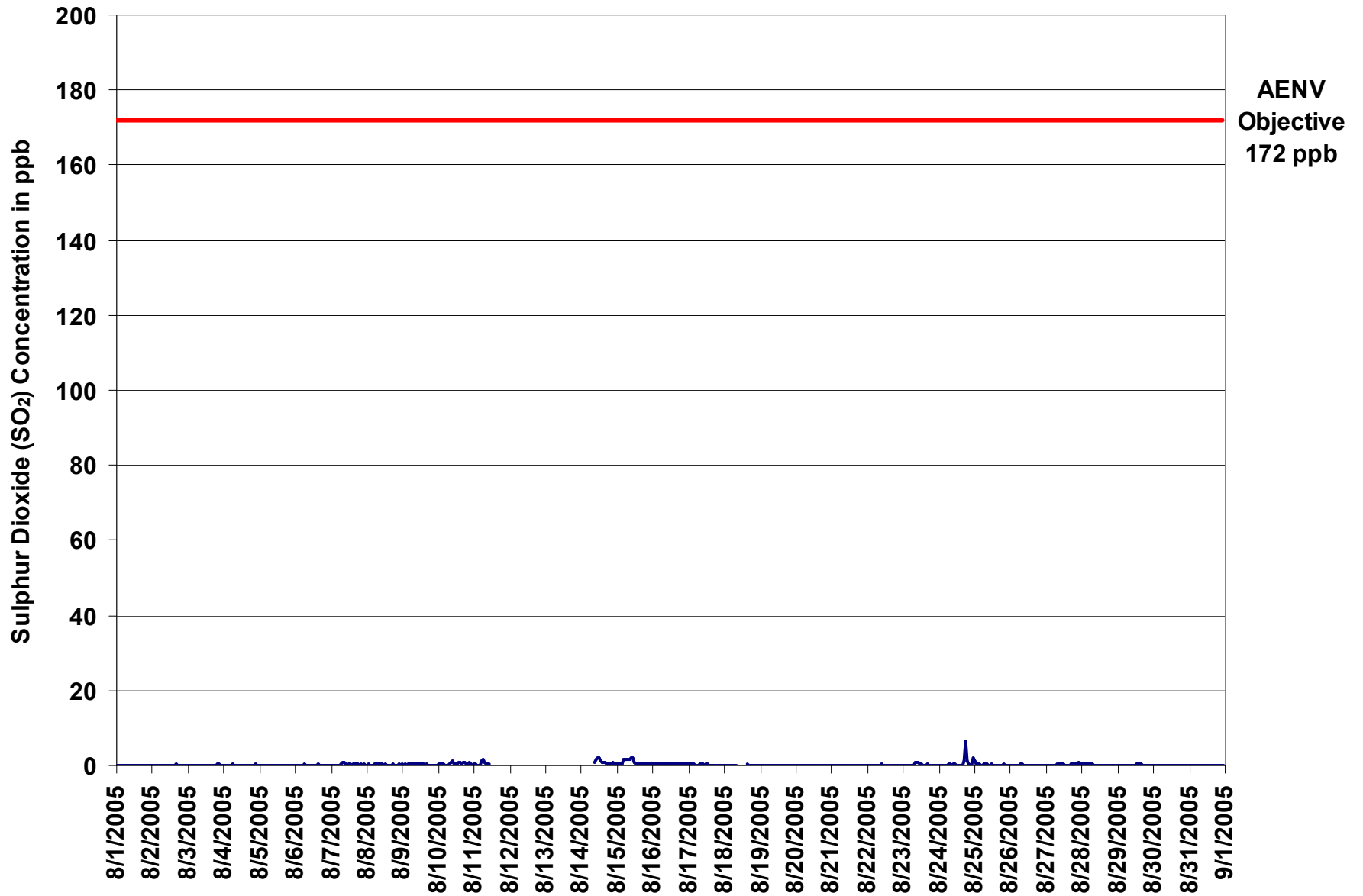


Figure 34. PASZA - Beaverlodge Sulphur Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

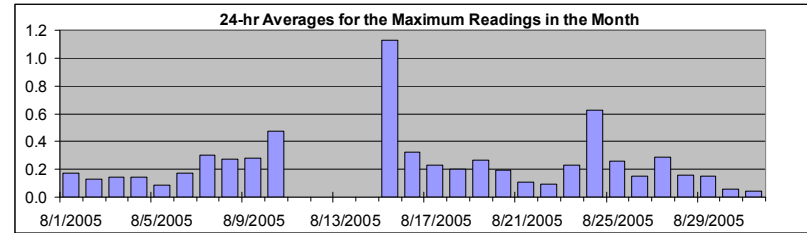
Sulphur Dioxide (SO₂)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	6.6	ppb	24-Aug	18:00	19:00
Maximum 24-hr Value:	1.1	ppb	15-Aug		

AIC Time:	0 hrs	Operational Time:	668 hrs					
Calibration Time:	6 hrs	AMD Operational Uptime:	90.6%					
Percentile	99	95	75	50	25	5	1	Average
	2.4	0.7	0.3	0.2	0.1	0.0	0.0	0.3 ppb



Status Flag Characters

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

Day	Mountain Standard Time																									24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2
2-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
3-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
4-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
5-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
6-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
7-Aug-05	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.0
8-Aug-05	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
9-Aug-05	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
10-Aug-05	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	0	1	1	0	0	1	1	0	0	0	0.5	1.2
11-Aug-05	0	0	0	0	0	1	2	1	0	0	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	1.6
12-Aug-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
13-Aug-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
14-Aug-05	N	N	N	N	N	N	N	N	N	1	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	N	2.5	
15-Aug-05	1	1	0	1	2	2	2	3	2	2	6	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1.1	5.5
16-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
17-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
18-Aug-05	0	0	0	0	0	0	0	0	0	C	C	C	C	C	C	0	0	0	0	0	0	1	0	0	0	0	0.2	0.5
19-Aug-05	0	0	0	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	3.4
20-Aug-05	0	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	3.1
21-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
22-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
23-Aug-05	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9
24-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	1	0	0	1	2	0.6	6.6	
25-Aug-05	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.2
26-Aug-05	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6
27-Aug-05	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.3	0.7	
28-Aug-05	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
29-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
30-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
31-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
Hourly Avg	0.2	0.2	0.2	0.4	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Hourly Max	1.2	0.6	0.5	3.4	1.7	1.8	1.8	2.6	1.9	2.0	5.5	2.3	2.4	2.4	0.7	0.9	0.6	1.3	6.6	1.1	0.6	1.3	1.1	2.2				

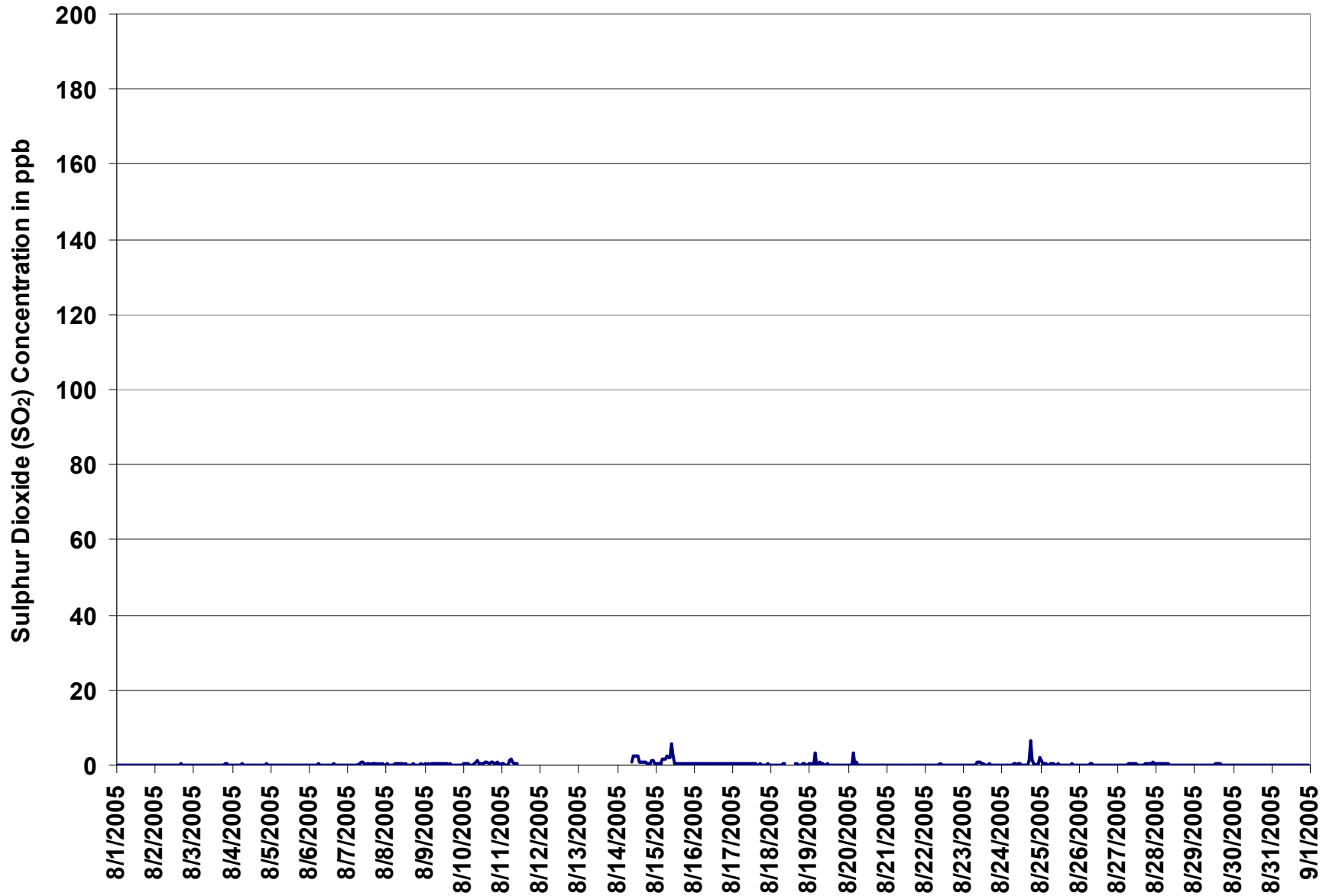
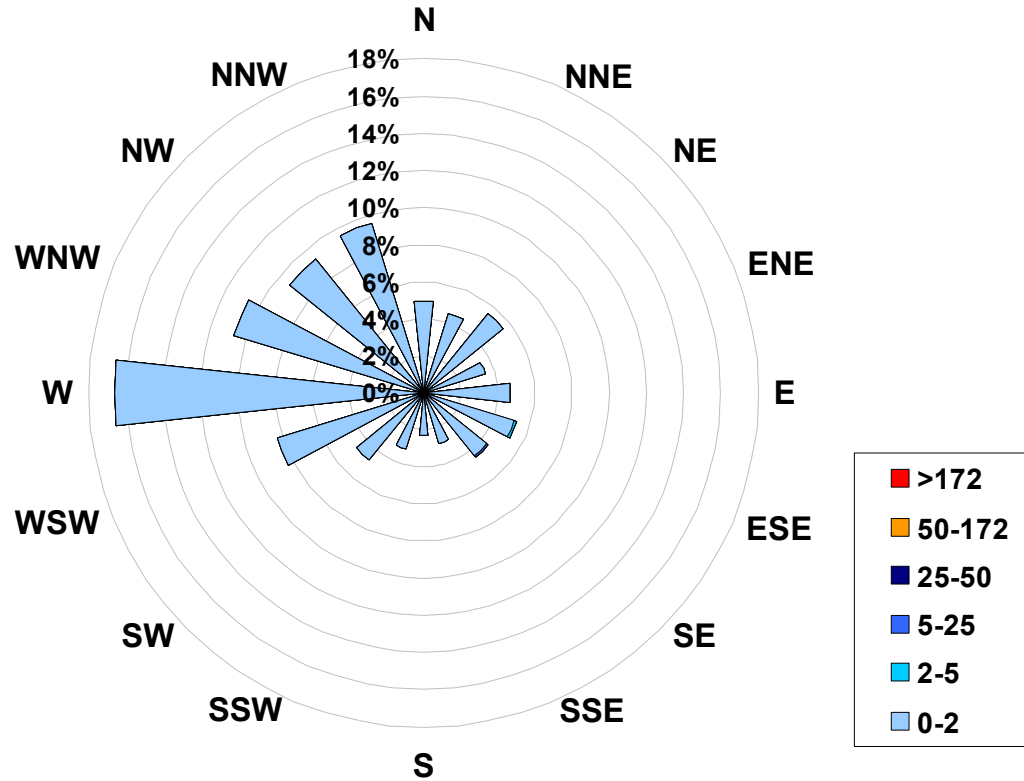


Figure 35. PASZA - Beaverlodge Sulphur Dioxide 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Beaverlodge Site for August 2005



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2	666	
2	to 5	1	
5	to 25	1	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values		668	

PASZA - Beaverlodge Nitrogen Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Station: Beaverlodge
Station Owner: PASZA

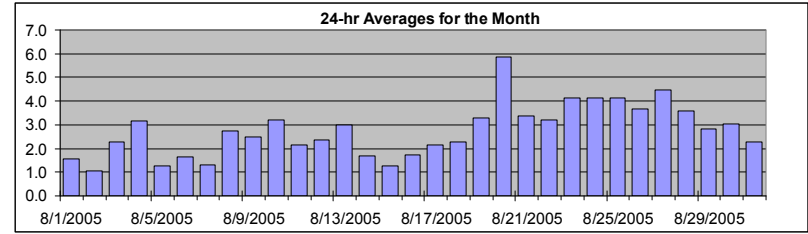
Monitoring Dates: August 1, 2005 to September 1, 2005

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:	10.9 ppb	3-Aug	13:00	14:00
Maximum 24-hr Average:	5.8 ppb	20-Aug		

AIC Time:	0 hrs		Operational Time:	732 hrs				
Calibration Time:	4 hrs		AMD Operational Uptime:	98.9%				
Percentile	99	95	75	50	25	5	1	Average
	8.9	6.8	3.9	2.0	1.0	0.6	0.0	2.7 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00
1-Aug-05	3	3	4	3	3	4	4	2	2	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	2	1.6	4.0	
2-Aug-05	2	1	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	1	1	2	1	2	4	1	2	1.0	4.0
3-Aug-05	2	1	2	2	2	3	4	2	1	1	1	1	1	0	0	1	0	1	1	4	3	11	8	2	2	2.3	10.9	
4-Aug-05	4	2	3	4	5	6	9	6	4	2	3	1	1	2	2	2	1	1	1	2	4	6	2	3	3.1	8.9		
5-Aug-05	2	1	0	0	1	1	2	1	1	0	1	1	1	1	1	1	1	1	1	2	3	3	3	2	1.3	3.0		
6-Aug-05	1	1	1	1	2	6	6	3	1	1	0	1	1	1	1	1	1	2	1	1	1	1	1	3	2	1.7	6.0	
7-Aug-05	2	1	1	2	2	2	2	2	1	1	1	1	1	0	0	1	1	2	1	1	1	1	2	3	1	1.3	3.0	
8-Aug-05	2	3	2	2	6	5	4	3	2	2	1	1	1	1	1	1	1	1	1	2	5	4	8	7	2.7	7.9		
9-Aug-05	9	3	3	6	2	2	2	1	1	1	1	1	1	1	1	1	2	3	2	2	4	4	3	4	2.5	8.9		
10-Aug-05	5	5	5	9	5	6	3	2	3	2	1	1	1	1	1	3	1	1	1	1	2	6	8	3	2	3.2	8.9	
11-Aug-05	2	5	4	3	3	3	7	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	3	2	2.2	7.0	
12-Aug-05	2	2	2	2	2	1	1	2	2	1	1	1	2	11	1	1	1	1	1	1	2	7	4	4	3	2.4	10.9	
13-Aug-05	3	6	4	5	7	5	5	4	3	2	3	2	2	2	2	1	2	1	2	1	2	2	3	2	3	3.0	7.0	
14-Aug-05	3	4	3	2	2	3	4	4	3	2	2	2	2	1	1	0	1	1	1	1	1	1	1	0	0	1.7	4.0	
15-Aug-05	1	0	0	1	0	2	4	2	1	2	2	1	1	1	1	1	1	2	1	1	2	2	2	1	1.3	3.9		
16-Aug-05	2	2	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	9	8	3	1.7	8.5		
17-Aug-05	2	3	4	4	2	2	3	3	2	1	1	1	1	0	1	1	1	1	1	1	2	2	7	7	2.1	7.1		
18-Aug-05	3	2	5	6	5	5	3	3	2	2	2	1	0	1	1	1	1	1	1	1	4	3	2	1	1	2.3	6.4	
19-Aug-05	2	2	4	4	4	6	7	7	6	4	C	C	C	C	0	0	0	0	2	3	3	3	4	4	3.3	7.1		
20-Aug-05	4	5	7	7	8	6	10	6	4	4	4	4	4	5	5	5	6	6	7	7	9	N	N	N	N	5.8	9.6	
21-Aug-05	N	N	N	N	4	4	8	6	5	4	3	3	3	2	2	2	3	3	3	3	4	3	3	2	2	3.4	7.8	
22-Aug-05	2	1	2	1	3	4	5	4	3	2	2	2	3	3	3	3	3	3	5	4	4	5	6	5	4	3.2	5.9	
23-Aug-05	5	4	4	4	4	4	5	4	4	3	3	3	3	3	4	4	3	3	3	6	6	6	5	5	4.1	5.9		
24-Aug-05	7	5	5	4	4	6	5	4	3	3	4	3	2	2	2	2	2	2	3	4	7	5	7	6	6	4.1	6.8	
25-Aug-05	6	5	5	4	4	5	7	5	4	4	3	3	2	2	2	2	2	2	2	4	10	8	5	3	4	4.1	9.8	
26-Aug-05	6	5	6	5	5	5	5	5	5	4	2	2	2	2	2	2	2	4	2	2	3	5	4	4	3	3.7	5.9	
27-Aug-05	3	3	3	5	5	6	6	8	11	8	7	5	4	3	2	2	2	2	3	3	3	3	5	4	6	4.5	10.8	
28-Aug-05	7	8	7	6	6	6	7	5	2	2	2	1	2	2	2	2	2	2	2	2	3	3	2	3	3	3.6	7.8	
29-Aug-05	3	3	2	2	4	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	3	6	5	5	4	2.8	5.9	
30-Aug-05	5	5	5	6	9	7	5	3	3	3	2	2	1	1	1	1	1	1	1	2	2	2	3	2	3	3.1	8.8	
31-Aug-05	2	2	2	2	4	6	4	3	3	2	1	1	1	1	1	1	2	2	2	3	2	2	3	4	2.3	5.9		
Hourly Avg	3.3	3.1	3.2	3.4	3.6	3.9	4.5	3.5	2.9	2.2	1.9	1.6	1.5	1.7	1.4	1.4	1.6	1.7	2.1	2.8	3.6	3.8	3.4	3.2				
Hourly Max	8.9	7.8	6.8	8.9	8.8	6.8	9.6	7.8	10.8	7.8	6.8	4.9	4.8	10.9	5.1	5.9	6.3	6.5	6.8	9.8	10.9	8.5	7.9	7.0				

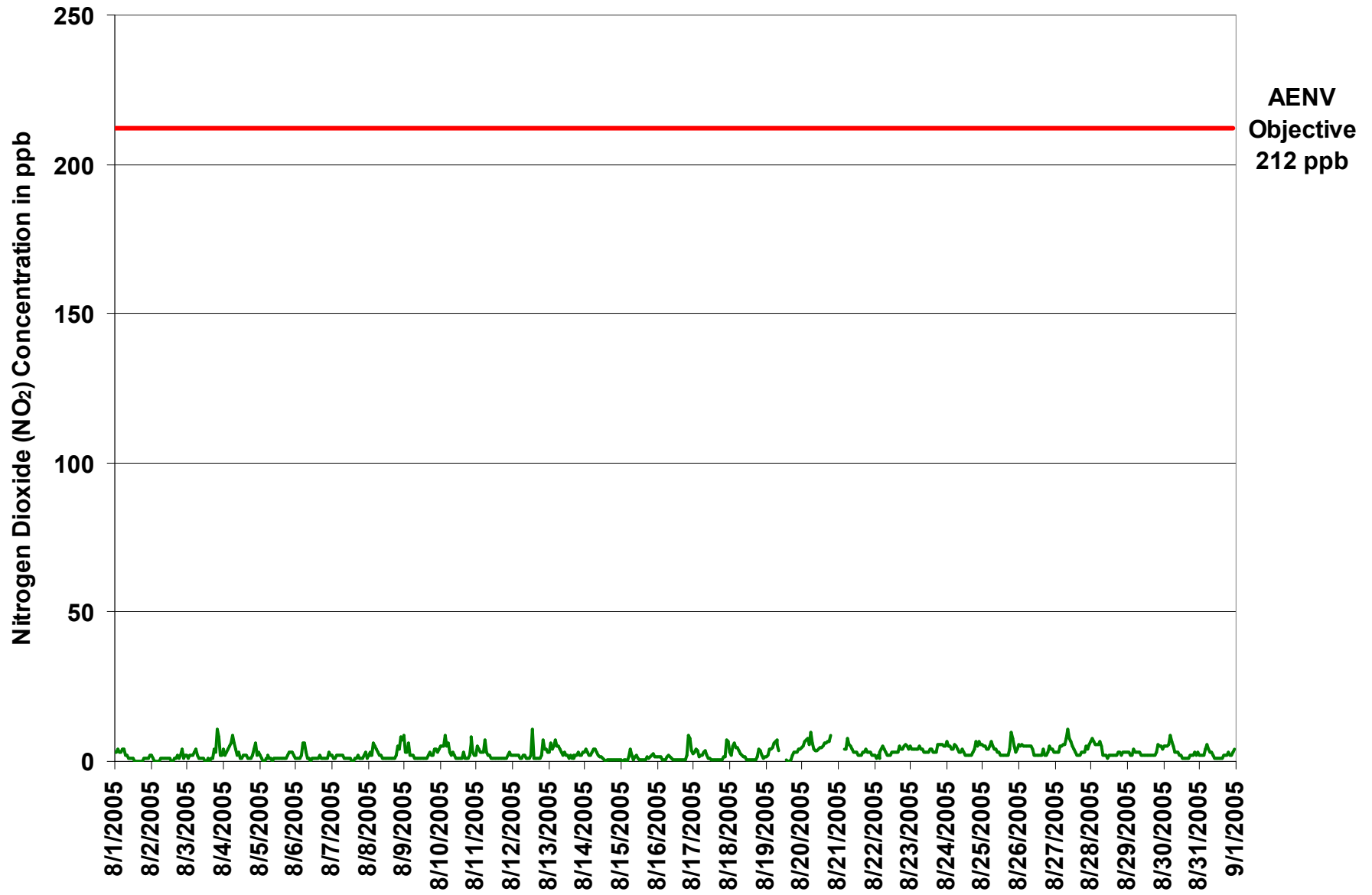


Figure 36. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

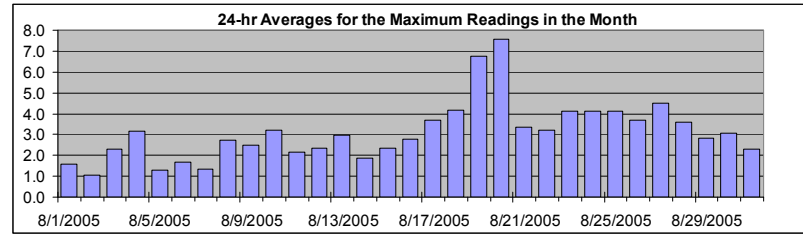
Nitrogen Dioxide (NO₂)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	25.3	ppb	19-Aug	3:00 4:00
Maximum 24-hr Value:	7.5	ppb	20-Aug	

AIC Time:	0 hrs	Operational Time:	732 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	98.9%					
Percentile	99 11.5	95 7.8	75 4.0	50 2.0	25 1.0	5 0.7	1 0.0	Average 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	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-Aug-05	3	3	4	3	3	4	4	2	2	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	2	1.6	4.0
2-Aug-05	2	1	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	1	1	2	1	2	4	1	2	1.0	4.0	
3-Aug-05	2	1	2	2	2	3	4	2	1	1	1	1	0	0	1	0	1	1	4	3	11	8	2	2	2.3	10.9		
4-Aug-05	4	2	3	4	5	6	9	6	4	2	3	1	1	2	2	2	1	1	1	1	2	4	6	2	3	3.1	8.9	
5-Aug-05	2	1	0	0	1	1	2	1	1	0	1	1	1	1	1	1	1	1	1	1	2	3	3	3	2	1.3	3.0	
6-Aug-05	1	1	1	1	2	6	6	3	1	1	0	1	1	1	1	1	1	2	1	1	1	1	1	3	2	1.7	6.0	
7-Aug-05	2	1	1	2	2	2	2	2	2	1	1	1	1	1	0	0	1	1	2	1	1	1	2	3	1	1.3	3.0	
8-Aug-05	2	3	2	2	6	5	4	3	2	2	1	1	1	1	1	1	1	1	1	1	2	5	4	8	7	2.7	7.9	
9-Aug-05	9	3	3	6	2	2	2	1	1	1	1	1	1	1	1	1	1	2	3	2	2	4	4	3	4	2.5	8.9	
10-Aug-05	5	5	5	9	5	6	3	2	3	2	1	1	1	1	1	1	3	1	1	1	2	6	8	3	2	3.2	8.9	
11-Aug-05	2	5	4	3	3	3	7	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	3	2	2.2	7.0	
12-Aug-05	2	2	2	2	2	1	1	2	2	1	1	1	1	2	11	1	1	1	1	1	2	7	4	4	3	2.4	10.9	
13-Aug-05	3	6	4	5	7	5	5	4	3	2	3	2	2	2	1	2	1	2	1	2	2	3	2	2	3	3.0	7.0	
14-Aug-05	3	4	3	2	2	3	4	4	3	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1.9	4.0	
15-Aug-05	1	1	1	1	1	7	7	4	2	4	3	3	2	1	1	2	2	3	3	2	3	4	3	2	2	2.4	7.4	
16-Aug-05	2	2	2	1	2	1	3	3	2	2	1	1	1	1	2	1	1	2	2	2	2	9	13	11	5	2.8	12.7	
17-Aug-05	3	5	7	5	3	4	3	5	5	4	2	2	2	2	2	1	1	1	5	2	1	3	3	14	11	3.7	13.5	
18-Aug-05	5	4	10	9	6	8	6	4	3	3	11	4	2	2	2	2	1	1	2	4	7	8	3	2	2	4.2	10.9	
19-Aug-05	3	4	5	25	6	12	12	10	7	12	C	C	C	C	1	1	1	1	3	5	9	8	9	5	6.7	25.3		
20-Aug-05	8	8	10	10	9	9	12	9	7	5	4	5	6	6	6	7	7	7	8	13	N	N	N	N	7.5	12.5		
21-Aug-05	N	N	N	N	4	4	8	6	5	4	3	3	3	2	2	2	3	3	4	3	3	3	2	2	2	3.4	7.8	
22-Aug-05	2	1	2	1	3	4	5	4	3	2	2	2	3	3	3	3	3	3	5	4	4	5	6	5	4	3.2	5.9	
23-Aug-05	5	4	4	4	4	4	5	4	4	3	3	3	3	3	4	4	3	3	3	6	6	6	6	5	5	4.1	5.9	
24-Aug-05	7	5	5	4	4	6	5	4	3	3	4	3	2	2	2	2	2	2	3	4	7	5	7	6	6	4.1	6.8	
25-Aug-05	6	5	5	4	4	5	7	5	4	4	3	3	2	2	2	2	2	2	4	10	8	5	3	4	4.1	9.8		
26-Aug-05	6	5	6	5	5	5	5	5	4	2	2	2	2	2	2	2	4	2	2	2	3	5	4	3	3.7	5.9		
27-Aug-05	3	3	3	5	5	6	6	8	11	8	7	5	4	3	2	2	2	3	3	3	3	3	5	4	6	4.5	10.8	
28-Aug-05	7	8	7	6	6	6	7	5	2	2	2	1	2	2	2	2	2	2	2	3	3	2	3	3	3	3.6	7.8	
29-Aug-05	3	3	2	2	4	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	3	6	5	5	4	2.8	5.9	
30-Aug-05	5	5	5	6	9	7	5	3	3	3	2	2	1	1	1	1	1	1	1	2	2	3	2	3	3	3.1	8.8	
31-Aug-05	2	2	2	2	4	6	4	3	3	2	1	1	1	1	1	1	1	2	2	2	2	2	3	4	2.3	5.9		
Hourly Avg	3.6	3.3	3.6	4.3	3.8	4.5	5.0	3.8	3.1	2.7	2.3	1.8	1.7	1.9	1.5	1.5	1.7	2.0	2.4	3.1	4.2	4.2	3.9	3.4				
Hourly Max	8.9	7.8	9.6	25.3	8.8	11.5	12.5	9.5	10.8	12.1	10.9	4.9	5.7	10.9	5.7	7.0	7.4	7.3	7.7	12.5	10.9	12.7	13.5	11.4				

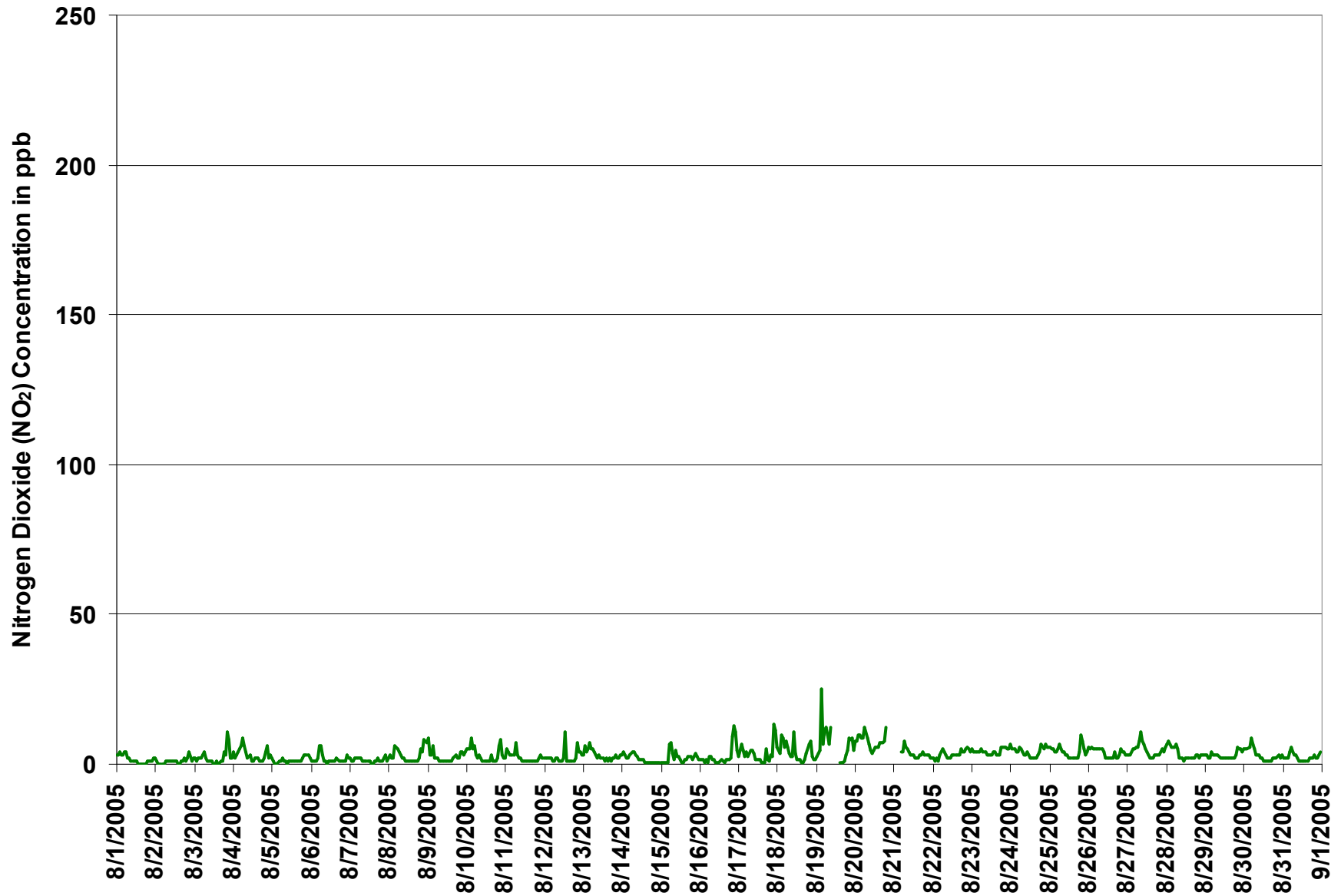
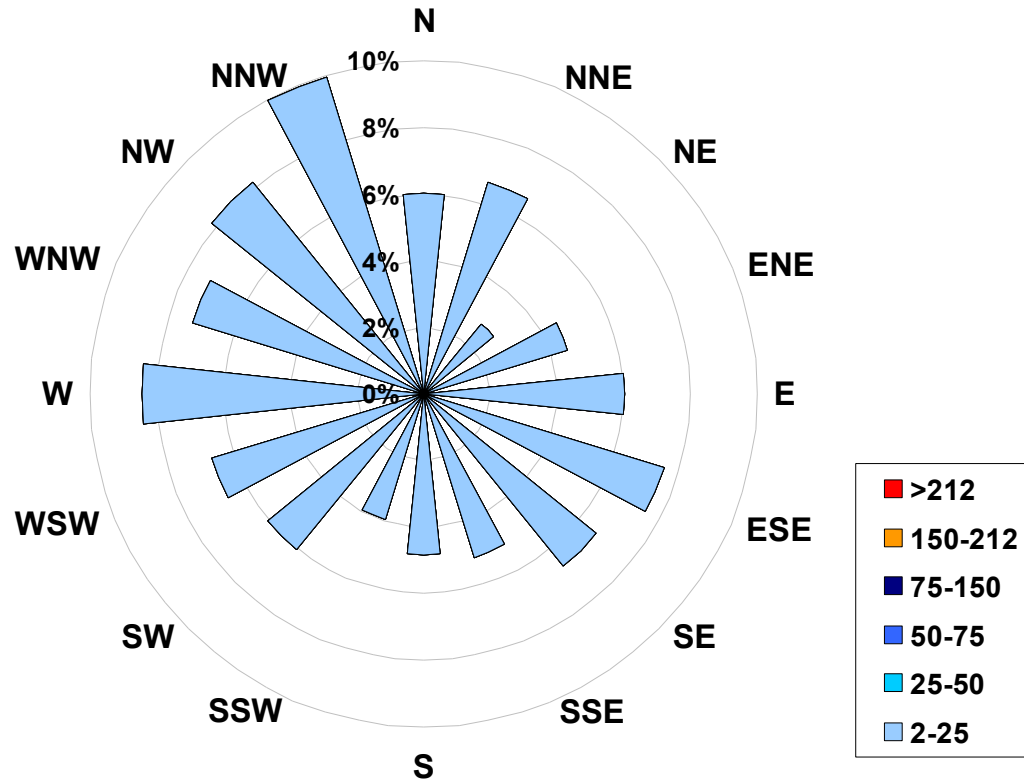


Figure 37. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Beaverlodge Site for August 2005



Calms: 0%

Frequency Distribution of NO ₂ in ppb			
Range		Frequency (hrs)	
2.0	< 25	732	
25	to 50	0	
50	to 75	0	
75	to 150	0	
150	to 212	0	
	> 212	0	
Total Non-Zero Values		732	

PASZA - Beaverlodge Nitric Oxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

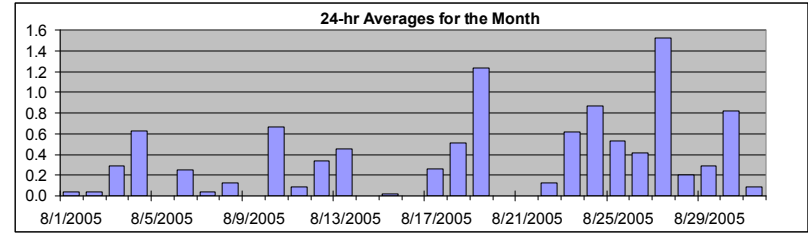
Nitric Oxide (NO)

Monitoring Dates: August 1, 2005 to September 1, 2005

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

Maximum 1-hr Average:	11.8	ppb	27-Aug	8:00 9:00
Maximum 24-hr Average:	1.5	ppb	27-Aug	

AIC Time:	0 hrs	Operational Time:	732 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	98.9%					
Percentile	99	95	75	50	25	5	1	Average
	4.9	2.0	0.0	0.0	0.0	0.0	0.0	0.3 ppb



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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum			
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00	
1-Aug-05	0:00	1:00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1.0
2-Aug-05	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1.0
3-Aug-05	0:00	1:00	0	0	0	0	0	0	0	0	2	2	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0.3	2.0
4-Aug-05	0:00	1:00	0	0	0	0	0	1	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0.6	5.0	
5-Aug-05	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
6-Aug-05	0:00	1:00	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.2	3.0	
7-Aug-05	0:00	1:00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1.0	
8-Aug-05	0:00	1:00	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0	
9-Aug-05	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
10-Aug-05	0:00	1:00	0	0	0	1	1	3	3	2	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	4.0	
11-Aug-05	0:00	1:00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	2.0	
12-Aug-05	0:00	1:00	0	0	0	0	0	0	0	1	2	1	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0.3	2.0	
13-Aug-05	0:00	1:00	0	0	0	0	0	0	2	3	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	3.0	
14-Aug-05	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
15-Aug-05	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.5	
16-Aug-05	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
17-Aug-05	0:00	1:00	0	0	0	0	0	0	0	0	1	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.8	
18-Aug-05	0:00	1:00	0	0	0	0	0	0	0	1	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	4.1	
19-Aug-05	0:00	1:00	0	0	0	0	0	3	5	7	8	2	C	C	C	C	0	0	0	0	0	0	0	0	0	0	1.2	8.1	
20-Aug-05	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	0.0	0.0
21-Aug-05	0:00	1:00	N	N	N	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
22-Aug-05	0:00	1:00	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0	
23-Aug-05	0:00	1:00	0	0	0	0	0	0	1	2	4	2	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0.6	3.9	
24-Aug-05	0:00	1:00	0	0	0	0	0	0	3	5	5	3	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0.9	4.9	
25-Aug-05	0:00	1:00	0	0	0	0	0	0	2	3	3	2	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0.5	3.0	
26-Aug-05	0:00	1:00	0	0	0	0	0	0	1	2	4	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.4	3.9	
27-Aug-05	0:00	1:00	0	0	0	0	0	0	1	6	12	9	5	3	1	0	0	0	0	0	0	0	0	0	0	0	1.5	11.8	
28-Aug-05	0:00	1:00	0	0	0	0	0	1	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.0	
29-Aug-05	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	0	0	0	1	0	0	0	0.3	1.0	
30-Aug-05	0:00	1:00	0	0	0	0	3	4	4	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.8	3.9	
31-Aug-05	0:00	1:00	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0	
Hourly Avg			0.0	0.0	0.0	0.0	0.1	0.4	1.3	1.6	1.9	1.0	0.6	0.3	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.0			
Hourly Max			0.0	0.0	0.0	1.0	3.0	3.9	5.0	6.7	11.8	8.9	4.9	3.0	1.0	2.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0		

Station: Beaverlodge
 Station Owner: PASZA

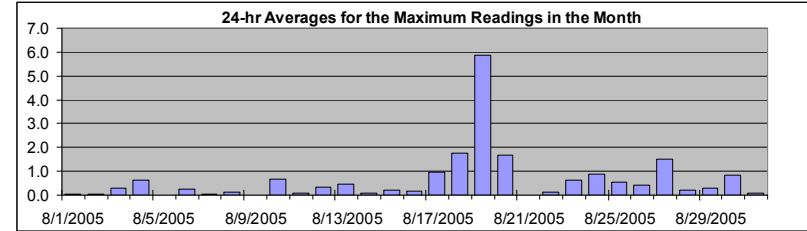
HOURLY MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	31.5	ppb	20-Aug	3:00 4:00
Maximum 24-hr Value:	5.9	ppb	19-Aug	



AIC Time:	0 hrs	Operational Time:	732 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	98.9%
Percentile	99 9.2	95 3.0	75 0.0
	50 0.0	25 0.0	5 0.0
	1 0.0	Average 0.6 ppb	

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start 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-Aug-05	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1.0
2-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1.0
3-Aug-05	0	0	0	0	0	0	2	2	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.3	2.0
4-Aug-05	0	0	0	0	0	1	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.6	5.0
5-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
6-Aug-05	0	0	0	0	0	0	3	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.2	3.0
7-Aug-05	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1.0
8-Aug-05	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
9-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
10-Aug-05	0	0	0	1	1	3	3	2	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	4.0
11-Aug-05	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	2.0
12-Aug-05	0	0	0	0	0	0	0	1	2	1	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.0
13-Aug-05	0	0	0	0	0	0	2	3	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	3.0
14-Aug-05	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
15-Aug-05	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.5
16-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0.2	1.0
17-Aug-05	0	0	0	1	0	0	0	2	5	4	1	0	0	0	0	0	0	4	0	0	0	0	4	0	0	1.0	4.7
18-Aug-05	0	0	2	0	0	2	3	8	5	5	9	0	5	0	0	0	0	0	0	0	0	0	0	0	0	1.8	9.4
19-Aug-05	0	0	0	30	0	23	25	17	14	7	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	5.9	29.8
20-Aug-05	0	0	0	31	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	1.7	31.5
21-Aug-05	N	N	N	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
22-Aug-05	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
23-Aug-05	0	0	0	0	0	0	1	2	4	2	1	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0.6	3.9
24-Aug-05	0	0	0	0	0	0	3	5	5	3	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.9	4.9
25-Aug-05	0	0	0	0	0	0	2	3	3	2	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0.5	3.0
26-Aug-05	0	0	0	0	0	0	1	2	4	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.4	3.9
27-Aug-05	0	0	0	0	0	0	1	6	12	9	5	3	1	0	0	0	0	0	0	0	0	0	0	0	0	1.5	11.8
28-Aug-05	0	0	0	0	0	1	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.0
29-Aug-05	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	0	0	0	1	0	0	0	0	0.3	1.0
30-Aug-05	0	0	0	0	3	4	4	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	3.9
31-Aug-05	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
Hourly Avg	0.0	0.0	0.1	2.1	0.1	1.1	2.0	2.2	2.3	1.5	1.0	0.4	0.3	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.1	0.2	0.0			
Hourly Max	0.0	0.0	1.8	31.5	3.0	23.3	25.3	17.3	14.3	8.9	9.4	3.0	5.3	2.0	1.0	1.0	1.0	4.4	1.0	1.0	1.0	1.0	4.4	0.0			

PASZA - Beaverlodge Oxides of Nitrogen Monthly Summary

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

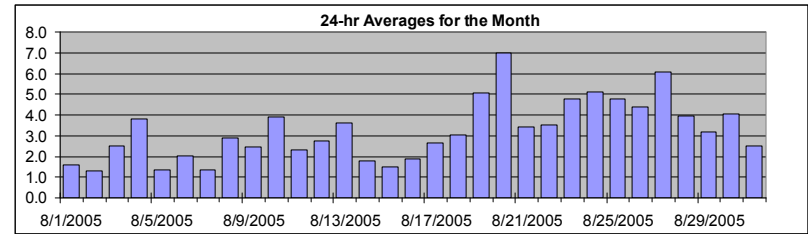
Station: Beaverlodge
Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

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

Maximum 1-hr Average:	23.0	ppb	27-Aug	8:00 9:00
Maximum 24-hr Average:	7.0	ppb	20-Aug	

AIC Time:	0 hrs	Operational Time:	732 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	98.9%					
Percentile	99	95	75	50	25	5	1	Average
	12.1	8.0	4.0	2.3	1.0	0.7	0.0	3.2 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00
1-Aug-05	3	3	4	3	3	4	5	2	2	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	2	1.6	5.0
2-Aug-05	2	1	0	0	0	1	1	1	1	1	1	2	1	1	1	0	1	2	3	1	2	5	1	2	1.3	5.0	
3-Aug-05	2	1	2	2	2	3	6	3	2	2	1	1	0	0	1	0	1	1	4	3	11	8	2	2	2.5	10.9	
4-Aug-05	4	2	3	4	5	7	14	9	5	4	4	2	2	2	2	2	1	1	1	2	4	7	2	3	3.8	13.9	
5-Aug-05	2	1	0	0	1	1	2	1	1	0	1	1	1	1	1	1	1	2	2	2	3	3	3	2	1.4	3.0	
6-Aug-05	1	1	1	1	3	6	9	4	1	1	0	1	1	1	2	2	2	2	1	1	1	1	3	2	2.0	8.9	
7-Aug-05	1	1	1	2	2	2	2	3	1	1	1	1	1	0	0	0	2	2	2	1	1	2	3	1	1.4	3.0	
8-Aug-05	2	3	2	2	6	5	4	4	3	3	2	1	1	1	1	1	1	1	1	2	5	4	8	7	2.9	7.9	
9-Aug-05	9	3	3	5	2	2	2	1	1	1	1	1	1	1	1	1	2	3	2	2	4	4	3	4	2.4	8.9	
10-Aug-05	5	5	5	10	6	8	6	5	7	4	2	1	1	1	1	3	1	1	1	1	2	6	8	3	2	3.9	9.9
11-Aug-05	2	5	4	3	3	4	9	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	3	2	2.3	8.9
12-Aug-05	2	2	2	2	2	1	1	4	4	2	3	1	2	13	1	1	1	1	1	1	2	7	4	4	3	2.7	12.9
13-Aug-05	3	6	4	5	7	6	8	8	6	4	4	3	2	1	2	1	2	1	2	2	3	2	2	3	3	3.6	7.9
14-Aug-05	3	4	3	2	2	3	4	4	3	3	2	2	1	1	0	1	1	1	1	1	1	1	1	0	1.8	4.0	
15-Aug-05	1	0	0	0	0	2	4	2	1	2	3	2	1	1	1	1	1	2	2	1	2	3	2	1	1.5	4.1	
16-Aug-05	2	2	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	9	8	3	1.9	8.8	
17-Aug-05	2	3	4	4	2	2	2	5	7	5	2	1	1	1	1	1	1	1	1	1	2	2	8	7	2.7	7.6	
18-Aug-05	3	2	6	7	5	5	5	8	6	4	4	1	1	1	1	1	1	1	2	4	4	2	1	1	3.0	7.5	
19-Aug-05	2	2	4	4	5	10	12	15	14	5	C	C	C	C	1	0	1	1	3	4	4	4	5	5	5.1	14.6	
20-Aug-05	5	6	7	8	9	6	12	8	6	5	5	5	6	6	6	7	7	8	8	10	N	N	N	N	7.0	11.7	
21-Aug-05	N	N	N	N	4	4	8	6	5	4	3	3	3	2	2	2	3	3	4	3	3	3	2	2	3.4	8.0	
22-Aug-05	2	1	2	1	3	4	6	5	3	2	3	2	3	3	3	3	4	5	4	5	5	6	5	4	3.5	6.0	
23-Aug-05	5	4	4	4	4	4	6	6	8	5	4	4	4	5	4	3	3	3	7	6	6	6	5	5	4.8	8.0	
24-Aug-05	7	5	5	4	4	6	7	9	9	7	6	3	3	4	2	2	2	3	4	7	5	7	6	6	5.1	9.0	
25-Aug-05	6	5	5	4	4	5	8	8	8	6	5	4	2	2	2	2	2	4	11	8	5	3	4	4.8	11.0		
26-Aug-05	6	5	6	5	5	5	5	8	10	7	3	2	2	2	2	3	5	2	3	3	5	4	4	3	4.4	10.0	
27-Aug-05	3	3	3	5	5	6	7	13	23	17	12	8	5	3	2	2	2	3	3	3	3	5	4	6	6.1	23.0	
28-Aug-05	8	8	7	7	6	7	9	6	2	2	2	2	2	2	2	2	2	2	3	3	3	2	3	3	4.0	9.0	
29-Aug-05	3	3	2	2	4	3	3	3	3	3	3	3	3	2	3	3	3	2	2	4	6	5	5	4	3.2	6.0	
30-Aug-05	5	5	5	6	12	11	9	6	5	4	4	3	1	1	1	1	2	2	2	2	2	3	2	3	4.0	12.0	
31-Aug-05	2	2	1	2	4	6	4	4	4	4	2	1	1	2	2	1	2	2	2	2	3	2	3	4	2.5	6.0	
Hourly Avg	3.4	3.1	3.2	3.5	3.9	4.5	5.9	5.3	5.0	3.5	2.8	2.1	1.8	2.1	1.5	1.6	1.9	2.0	2.4	3.0	3.6	4.0	3.5	3.2			
Hourly Max	8.9	8.0	7.5	9.9	12.0	11.0	13.9	14.6	23.0	17.0	12.0	8.0	5.8	12.9	5.9	6.8	7.3	7.6	8.0	11.0	10.9	8.8	8.3	7.0			

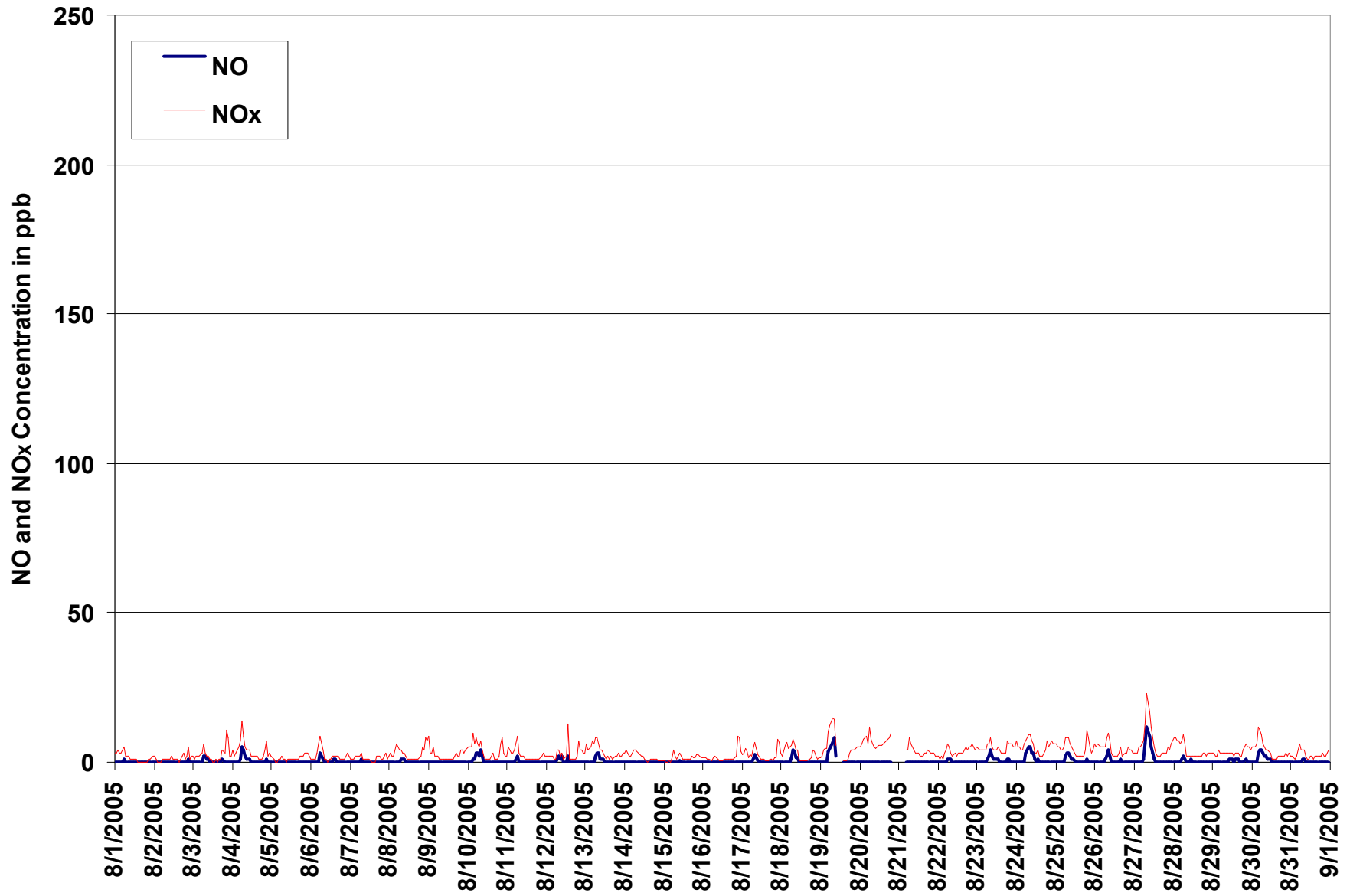


Figure 38. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

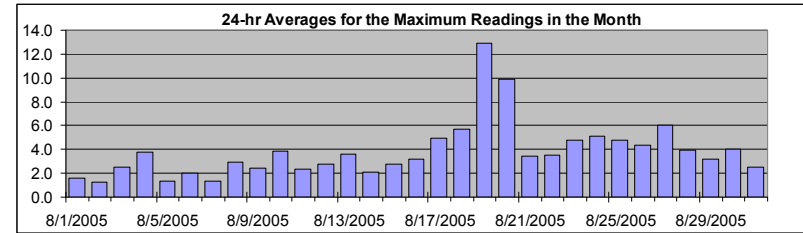
Oxides of Nitrogen (NO_x)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	55.5	ppb	19-Aug	3:00 4:00
Maximum 24-hr Value:	12.9	ppb	19-Aug	

AIC Time:	0 hrs	Operational Time:	732 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	98.9%					
Percentile	99	95	75	50	25	5	1	Average
	18.4	9.5	5.0	3.0	1.8	0.8	0.0	3.8 ppb



Status Flag Characters

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

Day	Mountain Standard Time																									24-hour Average	Daily Maximum
Hour Start 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-Aug-05	3	3	4	3	3	4	5	2	2	1	1	1	1	1	0	0	0	0	0	0	0	1	1	2	1.6	5.0	
2-Aug-05	2	1	0	0	0	1	1	1	1	1	1	2	1	1	1	0	1	2	3	1	2	5	1	2	1.3	5.0	
3-Aug-05	2	1	2	2	2	3	6	3	2	2	1	1	0	0	1	0	1	1	4	3	11	8	2	2	2.5	10.9	
4-Aug-05	4	2	3	4	5	7	14	9	5	4	4	2	2	2	2	2	1	1	1	2	4	7	2	3	3.8	13.9	
5-Aug-05	2	1	0	0	1	1	2	1	1	0	1	1	1	1	1	1	1	2	2	2	3	3	2	2	1.4	3.0	
6-Aug-05	1	1	1	1	3	6	9	4	1	1	0	1	1	2	2	2	2	2	1	1	1	1	3	2	2.0	8.9	
7-Aug-05	1	1	1	2	2	2	2	3	1	1	1	1	1	0	0	0	2	2	2	1	1	2	3	1	1.4	3.0	
8-Aug-05	2	3	2	2	6	5	4	4	3	3	2	1	1	1	1	1	1	1	1	2	5	4	8	7	2.9	7.9	
9-Aug-05	9	3	3	5	2	2	2	1	1	1	1	1	1	1	1	1	2	3	2	2	4	4	3	4	2.4	8.9	
10-Aug-05	5	5	5	10	6	8	6	5	7	4	2	1	1	1	1	3	1	1	1	2	6	8	3	2	3.9	9.9	
11-Aug-05	2	5	4	3	3	4	9	3	2	2	2	1	1	1	1	1	1	1	1	1	1	2	3	2	2.3	8.9	
12-Aug-05	2	2	2	2	2	1	1	4	4	2	3	1	2	13	1	1	1	1	1	2	7	4	4	3	2.7	12.9	
13-Aug-05	3	6	4	5	7	6	8	8	6	4	4	3	2	1	2	1	2	1	2	2	3	2	2	3	3.6	7.9	
14-Aug-05	3	4	3	2	2	3	4	4	3	4	3	3	2	2	1	1	2	1	2	1	1	1	1	1	2.1	4.0	
15-Aug-05	1	1	1	1	1	7	8	4	2	6	4	4	3	1	2	2	2	4	3	3	3	4	3	2	2.8	7.7	
16-Aug-05	2	2	2	1	2	1	3	3	2	2	1	1	2	2	3	2	2	2	2	2	10	15	12	5	3.2	14.5	
17-Aug-05	3	5	7	5	3	5	4	8	10	9	4	3	2	3	1	1	2	9	2	2	3	3	19	12	5.0	18.6	
18-Aug-05	5	4	11	9	6	10	10	13	8	7	18	2	3	2	3	1	1	2	4	8	8	3	3	2	5.7	18.0	
19-Aug-05	3	4	5	55	7	35	37	27	22	14	C	C	C	C	1	1	1	2	5	6	10	9	10	6	12.9	55.5	
20-Aug-05	9	9	11	28	10	9	16	10	10	7	5	6	6	7	9	9	9	9	15	N	N	N	N	N	9.9	28.0	
21-Aug-05	N	N	N	N	4	4	8	6	5	4	3	3	3	2	2	2	3	3	4	3	3	3	2	2	3.4	8.0	
22-Aug-05	2	1	2	1	3	4	6	5	3	2	3	2	3	3	3	3	4	5	4	5	5	6	5	4	3.5	6.0	
23-Aug-05	5	4	4	4	4	4	6	6	8	5	4	4	4	5	4	3	3	3	7	6	6	6	5	5	4.8	8.0	
24-Aug-05	7	5	5	4	4	6	7	9	9	7	6	3	3	4	2	2	2	3	4	7	5	7	6	6	5.1	9.0	
25-Aug-05	6	5	5	4	4	5	8	8	8	6	5	4	2	2	2	2	2	4	11	8	5	3	4	4	4.8	11.0	
26-Aug-05	6	5	6	5	5	5	5	8	10	7	3	2	2	2	2	3	5	2	3	3	5	4	4	3	4.4	10.0	
27-Aug-05	3	3	3	5	5	6	7	13	23	17	12	8	5	3	2	2	2	3	3	3	3	5	4	6	6.1	23.0	
28-Aug-05	8	8	7	7	6	7	9	6	2	2	2	2	2	2	2	2	2	2	3	3	2	3	3	3	4.0	9.0	
29-Aug-05	3	3	2	2	4	3	3	3	3	3	3	3	3	3	2	3	3	2	2	4	6	5	5	4	3.2	6.0	
30-Aug-05	5	5	5	6	12	11	9	6	5	4	4	3	1	1	1	1	2	2	2	2	3	2	3	3	4.0	12.0	
31-Aug-05	2	2	1	2	4	6	4	4	4	2	1	1	2	2	1	2	2	2	2	3	2	2	3	4	2.5	6.0	
Hourly Avg	3.6	3.4	3.7	6.0	4.1	5.8	7.1	6.1	5.5	4.3	3.4	2.3	2.1	2.2	1.8	1.7	2.0	2.4	2.7	3.5	4.3	4.5	4.2	3.5			
Hourly Max	8.9	9.4	11.4	55.5	12.0	34.5	37.2	26.6	23.0	17.0	18.0	8.0	5.9	12.9	6.9	8.9	8.9	9.5	8.9	14.8	10.9	14.5	18.6	11.5			

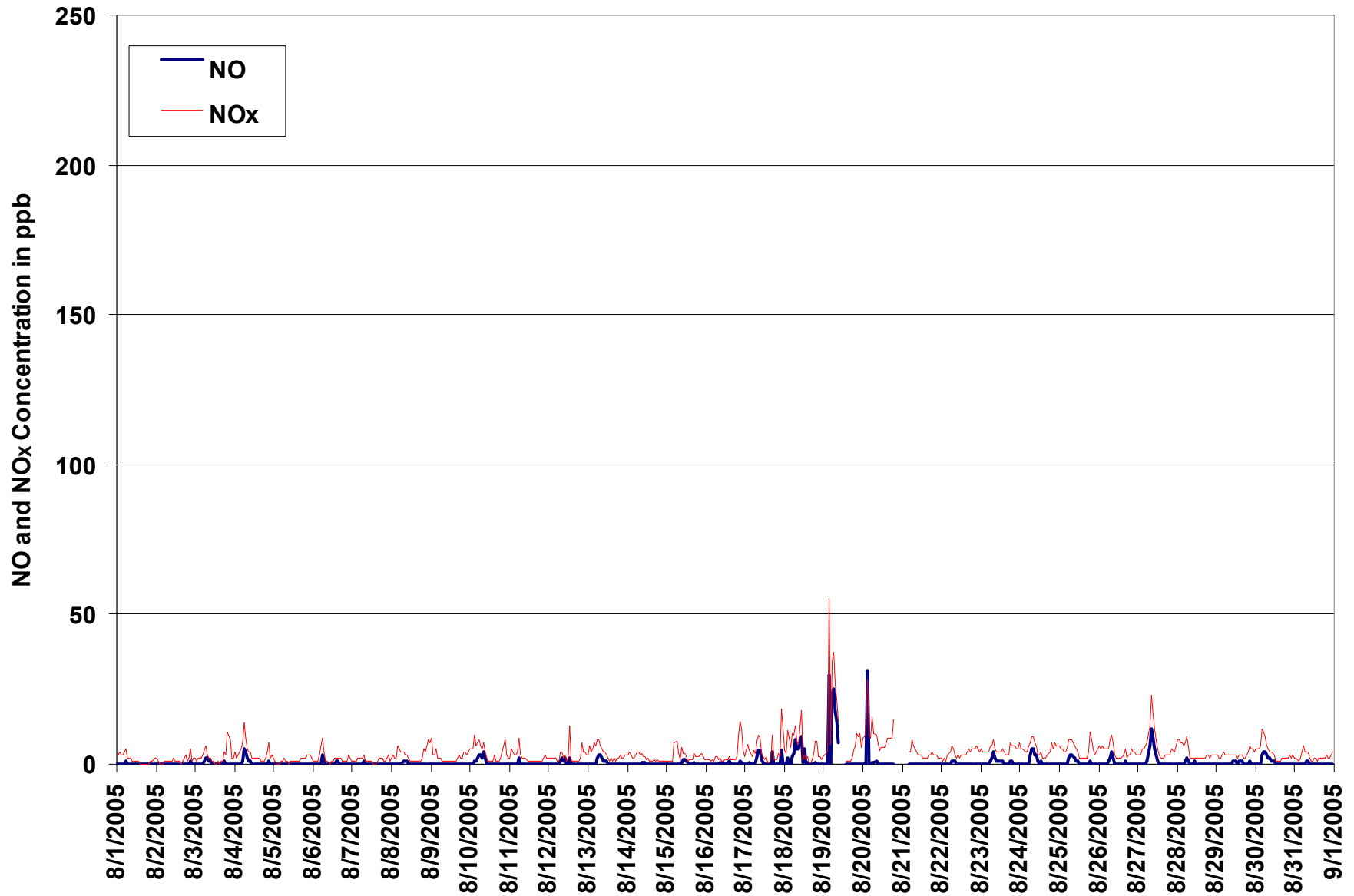


Figure 39. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Maximum Value Monthly Trend

PASZA - Beaverlodge Ozone Monthly Summary

HOURLY AVERAGE TABLE

Ozone (O₃)

Station: Beaverlodge
 Station Owner: PASZA

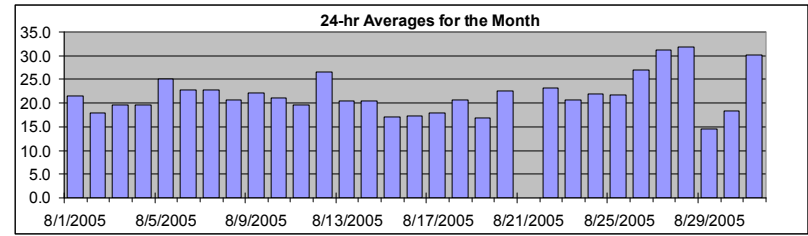
Monitoring Dates: August 1, 2005 to September 1, 2005

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

Summary

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	47.0	ppb	27-Aug	17:00 18:00
Maximum 24-hr Average:	31.8	ppb	28-Aug	

AIC Time:	0 hrs							Operational Time:	726 hrs				
Calibration Time:	3 hrs							AMD Operational Uptime:	98.0%				
Percentile	99	95	75	50	25	5	1	Average					
	44.0	37.0	28.0	21.4	15.8	7.1	4.2	22.0 ppb					



Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
	Hour Start	Hour End	0:00	1:00	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
1-Aug-05	13	10	11	11	8	6	6	16	19	26	28	32	29	29	30	31	31	30	29	29	28	24	22	21	21.6	31.6
2-Aug-05	18	22	24	23	20	18	16	15	15	16	17	17	18	18	18	19	21	21	17	17	15	11	15	12	18.0	24.5
3-Aug-05	10	10	10	9	7	8	7	10	13	18	24	26	28	30	33	33	32	32	24	28	18	17	24	20	19.7	32.6
4-Aug-05	16	19	17	16	12	8	4	9	12	15	18	22	22	20	24	28	30	31	30	26	23	20	24	21	19.7	30.6
5-Aug-05	22	24	24	22	22	22	21	23	24	28	29	29	30	29	30	29	30	28	28	24	23	22	21	19	25.2	29.5
6-Aug-05	22	22	22	21	16	10	7	17	22	23	23	23	22	22	23	25	23	21	21	30	34	31	29	32	22.8	33.6
7-Aug-05	30	30	24	22	18	16	14	14	17	18	21	24	26	28	29	28	24	24	24	24	23	18	18	29	22.8	29.5
8-Aug-05	30	22	20	21	13	12	12	11	14	17	21	24	25	25	25	24	25	26	28	26	23	20	12	13	20.7	29.5
9-Aug-05	11	16	16	14	19	20	20	23	24	24	26	33	34	30	33	33	24	21	22	23	17	13	15	13	22.0	33.6
10-Aug-05	14	14	11	5	5	2	6	9	11	17	26	32	34	35	37	37	36	33	32	29	22	18	21	21	21.1	36.7
11-Aug-05	20	11	10	10	10	10	6	17	20	21	22	24	23	23	24	24	23	22	25	28	26	23	20	20	19.6	27.5
12-Aug-05	22	22	19	18	18	20	19	19	19	21	24	30	33	33	35	36	36	37	39	36	26	23	24	26	26.6	38.7
13-Aug-05	23	11	9	6	4	6	5	7	11	16	19	26	37	36	30	31	30	31	33	26	22	21	26	24	20.5	36.7
14-Aug-05	25	22	20	17	15	16	11	16	19	21	22	21	20	22	28	27	24	21	20	20	18	21	21	22	20.5	27.5
15-Aug-05	21	22	21	19	19	16	13	15	15	15	14	18	19	20	20	21	20	19	17	18	14	11	12	14	17.1	21.7
16-Aug-05	15	16	16	20	18	19	17	16	17	19	21	21	20	21	21	21	20	20	20	18	15	7	5	11	17.2	21.1
17-Aug-05	13	10	7	8	11	10	11	10	9	12	18	25	27	27	28	28	29	27	28	27	24	19	10	11	17.8	29.2
18-Aug-05	17	19	12	5	7	6	5	6	8	12	19	28	32	33	33	33	35	35	34	31	24	23	22	21	20.7	35.4
19-Aug-05	19	18	13	13	9	5	4	5	9	16	22	27	27	C	C	C	26	26	22	19	19	20	17	21	16.9	27.2
20-Aug-05	21	18	15	10	7	16	5	12	16	17	24	34	39	39	37	31	29	29	30	23	N	N	N	N	22.6	39.3
21-Aug-05	N	N	N	N	N	N	N	N	N	N	N	35	36	36	36	34	29	31	29	29	26	27	29	28	N	36.0
22-Aug-05	27	27	23	22	21	21	17	18	20	24	25	26	28	28	28	28	25	23	22	19	22	22	20	21	23.2	28.0
23-Aug-05	16	17	17	17	15	15	14	13	14	17	22	26	28	26	26	29	31	31	22	22	21	23	18	18	20.8	31.0
24-Aug-05	11	13	12	9	9	7	5	5	7	11	15	26	33	35	37	38	37	36	33	30	32	28	28	28	21.9	38.0
25-Aug-05	23	20	16	14	13	12	9	11	15	19	24	30	33	32	32	32	32	32	28	17	17	21	21	17	21.7	33.0
26-Aug-05	13	15	14	13	13	14	14	12	13	16	32	41	39	38	38	38	39	42	40	38	32	32	30	32	27.0	42.0
27-Aug-05	30	29	28	26	24	23	18	14	8	14	23	31	38	43	45	45	44	47	45	43	38	35	34	25	31.3	47.0
28-Aug-05	19	15	12	16	15	11	8	16	39	46	43	44	45	43	43	44	45	43	37	44	43	35	28	29	31.8	46.0
29-Aug-05	28	18	14	14	11	12	13	13	14	14	14	14	14	16	17	17	18	19	20	16	7	8	9	9	14.6	28.0
30-Aug-05	8	7	7	4	0	1	2	7	10	13	20	25	28	28	27	29	29	29	31	28	28	28	27	26	18.4	31.0
31-Aug-05	28	29	30	25	23	19	20	21	23	29	32	33	34	35	37	37	36	37	37	34	34	32	29	27	30.1	37.0
Hourly Avg	19.6	18.4	16.6	15.1	13.5	12.8	11.0	13.4	16.0	19.3	23.0	27.3	29.1	29.3	30.1	30.3	29.5	29.2	28.0	26.5	24.0	21.9	21.2	21.1		
Hourly Max	30.0	29.5	30.0	26.0	24.0	23.0	21.4	23.4	39.0	46.0	43.0	44.0	45.0	43.0	45.0	45.0	45.0	47.0	45.0	44.0	43.0	35.0	34.0	32.0		

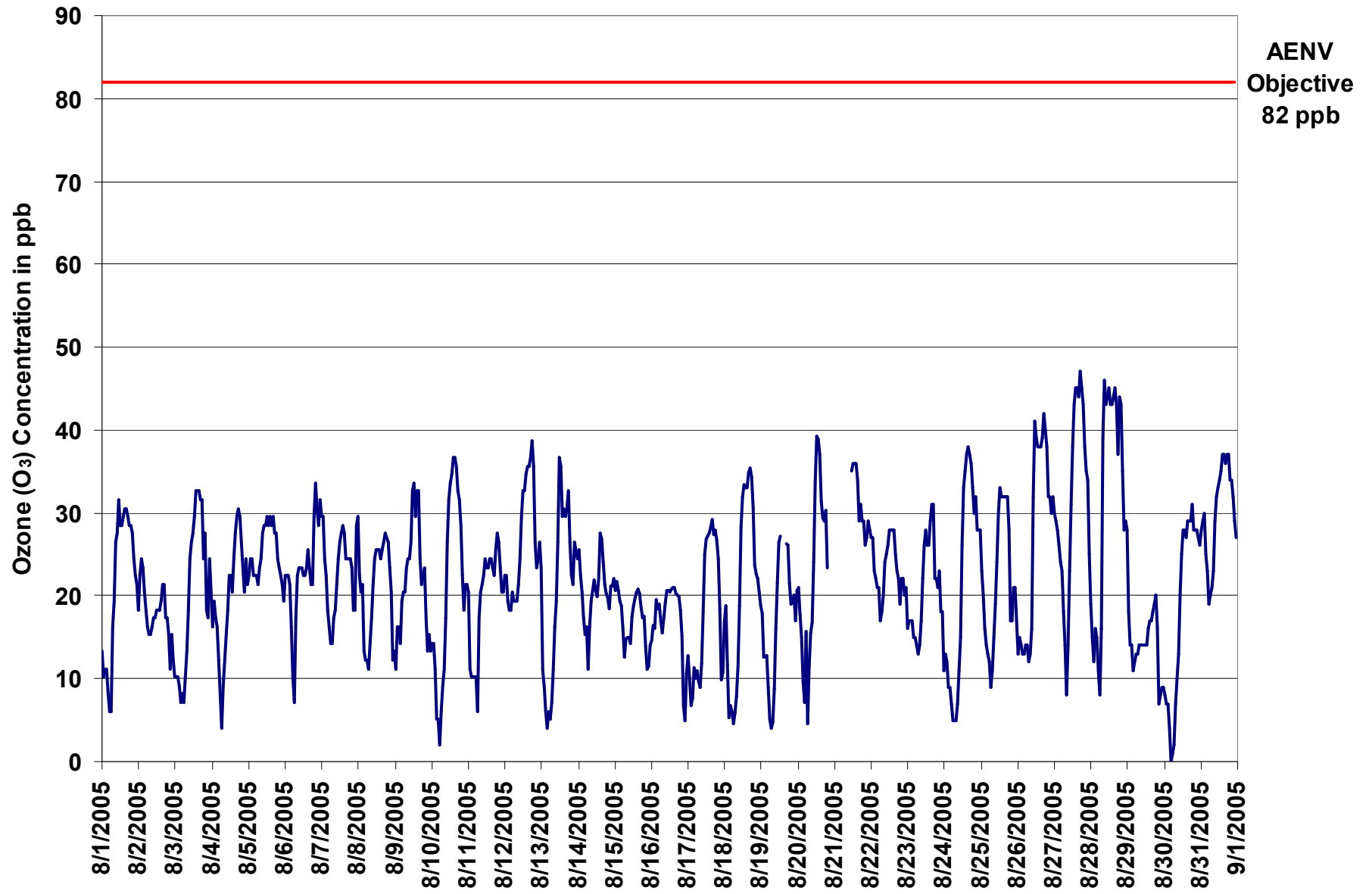


Figure 40. PASZA - Beaverlodge Ozone 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

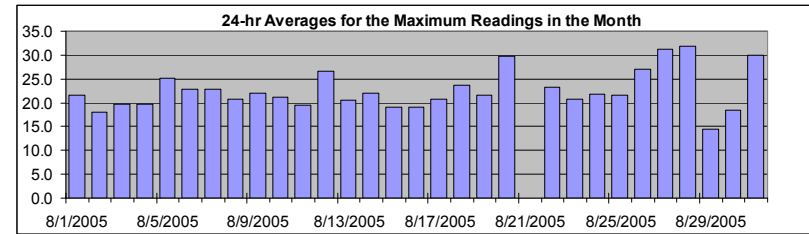
Ozone (O₃)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Value:	53.1	ppb	20-Aug	3:00 4:00
Maximum 24-hr Value:	31.8	ppb	28-Aug	

AIC Time:	0 hrs	Operational Time:	726 hrs					
Calibration Time:	3 hrs	AMD Operational Uptime:	98.0%					
Percentile	99	95	75	50	25	5	1	Average
	45.0	38.0	28.5	22.4	16.3	8.2	5.0	22.7 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Aug-05	13	10	11	11	8	6	6	16	19	26	28	32	29	29	30	31	31	30	29	29	28	24	22	21	21.6	31.6
2-Aug-05	18	22	24	23	20	18	16	15	15	16	17	17	18	18	18	19	21	21	17	17	15	11	15	12	18.0	24.5
3-Aug-05	10	10	10	9	7	8	7	10	13	18	24	26	28	30	33	33	32	32	24	28	18	17	24	20	19.7	32.6
4-Aug-05	16	19	17	16	12	8	4	9	12	15	18	22	22	20	24	28	30	31	30	26	23	20	24	21	19.7	30.6
5-Aug-05	22	24	24	22	22	22	21	23	24	28	29	29	30	29	30	29	30	28	28	24	23	22	21	19	25.2	29.5
6-Aug-05	22	22	22	21	16	10	7	17	22	23	23	23	22	22	23	25	23	21	21	30	34	31	29	32	22.8	33.6
7-Aug-05	30	30	24	22	18	16	14	14	17	18	21	24	26	28	29	28	24	24	24	24	23	18	18	29	22.8	29.5
8-Aug-05	30	22	20	21	13	12	12	11	14	17	21	24	25	25	25	24	25	26	28	26	23	20	12	13	20.7	29.5
9-Aug-05	11	16	16	14	19	20	20	23	24	24	26	33	34	30	33	33	24	21	22	23	17	13	15	13	22.0	33.6
10-Aug-05	14	14	11	5	5	2	6	9	11	17	26	32	34	35	37	37	36	33	32	29	22	18	21	21	21.1	36.7
11-Aug-05	20	11	10	10	10	10	6	17	20	21	22	24	23	23	24	24	23	22	25	28	26	23	20	20	19.6	27.5
12-Aug-05	22	22	19	18	18	20	19	19	19	21	24	30	33	33	35	36	36	37	39	36	26	23	24	26	26.6	38.7
13-Aug-05	23	11	9	6	4	6	5	7	11	16	19	26	37	36	30	31	30	31	33	26	22	21	26	24	20.5	36.7
14-Aug-05	25	22	20	17	15	16	11	16	19	24	24	23	22	27	32	30	27	23	22	22	20	23	23	25	22.1	31.7
15-Aug-05	23	24	22	21	20	20	16	17	17	16	16	20	20	21	22	22	22	21	19	20	17	13	13	16	19.1	23.6
16-Aug-05	17	17	19	21	20	20	20	17	19	21	22	22	21	22	23	22	22	22	21	20	17	11	7	15	19.0	22.6
17-Aug-05	15	13	10	10	12	11	12	12	10	16	22	28	28	30	29	30	31	30	29	29	27	24	21	19	20.8	31.2
18-Aug-05	24	24	18	10	10	9	7	7	11	14	24	32	34	35	35	35	36	37	36	35	29	24	23	22	23.8	37.1
19-Aug-05	20	19	15	47	13	11	8	10	12	18	25	29	29	C	C	C	27	28	26	23	24	25	23	23	21.6	47.3
20-Aug-05	24	24	23	53	13	25	19	16	28	20	29	38	41	40	41	34	32	32	32	31	N	N	N	N	29.7	53.1
21-Aug-05	N	N	N	N	N	N	N	N	N	N	N	35	36	36	36	34	29	31	29	29	26	27	29	28	N	36.0
22-Aug-05	27	27	23	22	21	21	17	18	20	24	25	26	28	28	28	28	25	23	22	19	22	22	20	21	23.2	28.0
23-Aug-05	16	17	17	17	15	15	14	13	14	17	22	26	28	26	26	29	31	31	22	22	21	23	18	18	20.8	31.0
24-Aug-05	11	13	12	9	9	7	5	5	7	11	15	26	33	35	37	38	37	36	33	30	32	28	28	28	21.9	38.0
25-Aug-05	23	20	16	14	13	12	9	11	15	19	24	30	33	32	32	32	32	32	28	17	17	21	21	17	21.7	33.0
26-Aug-05	13	15	14	13	13	14	14	12	13	16	32	41	39	38	38	38	39	42	40	38	32	32	30	32	27.0	42.0
27-Aug-05	30	29	28	26	24	23	18	14	8	14	23	31	38	43	45	45	44	47	45	43	38	35	34	25	31.3	47.0
28-Aug-05	19	15	12	16	15	11	8	16	39	46	43	44	45	43	43	44	45	43	37	44	43	35	28	29	31.8	46.0
29-Aug-05	28	18	14	14	11	12	13	13	14	14	14	14	14	16	17	17	18	19	20	16	7	8	9	9	14.6	28.0
30-Aug-05	8	7	7	4	0	1	2	7	10	13	20	25	28	28	27	29	29	29	31	28	28	28	27	26	18.4	31.0
31-Aug-05	28	29	30	25	23	19	20	21	23	29	32	33	34	35	37	37	36	37	37	34	34	32	29	27	30.1	37.0
Hourly Avg	20.2	19.0	17.4	18.0	14.1	13.7	12.0	14.0	16.8	19.9	23.8	27.9	29.4	29.7	30.6	30.7	29.9	29.6	28.4	27.3	24.6	22.5	22.0	21.8		
Hourly Max	30.0	29.5	30.0	53.1	24.0	25.2	21.4	23.4	39.0	46.0	43.0	44.0	45.0	43.0	45.0	45.0	45.0	47.0	45.0	44.0	43.0	35.0	34.0	32.0		

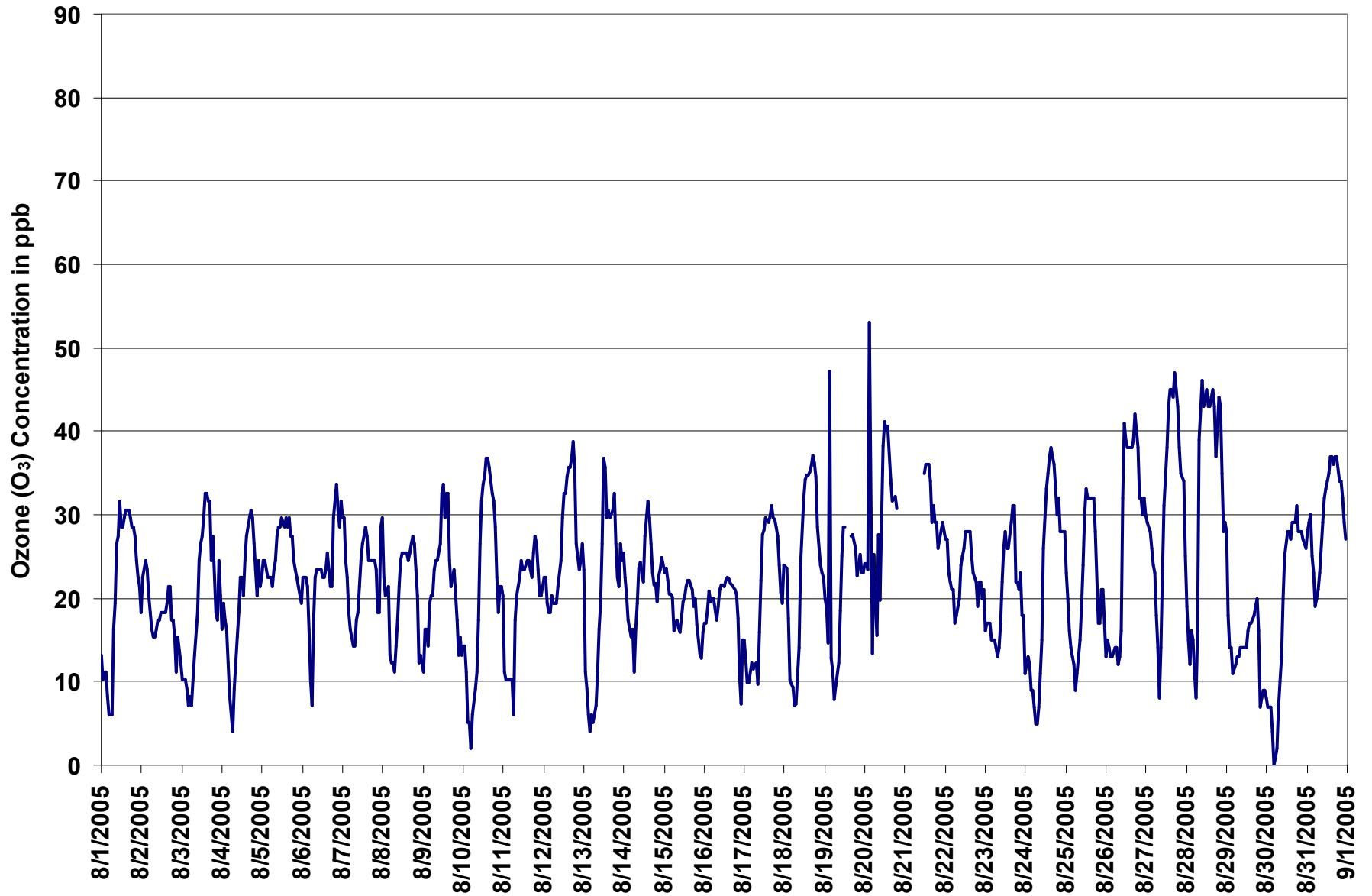
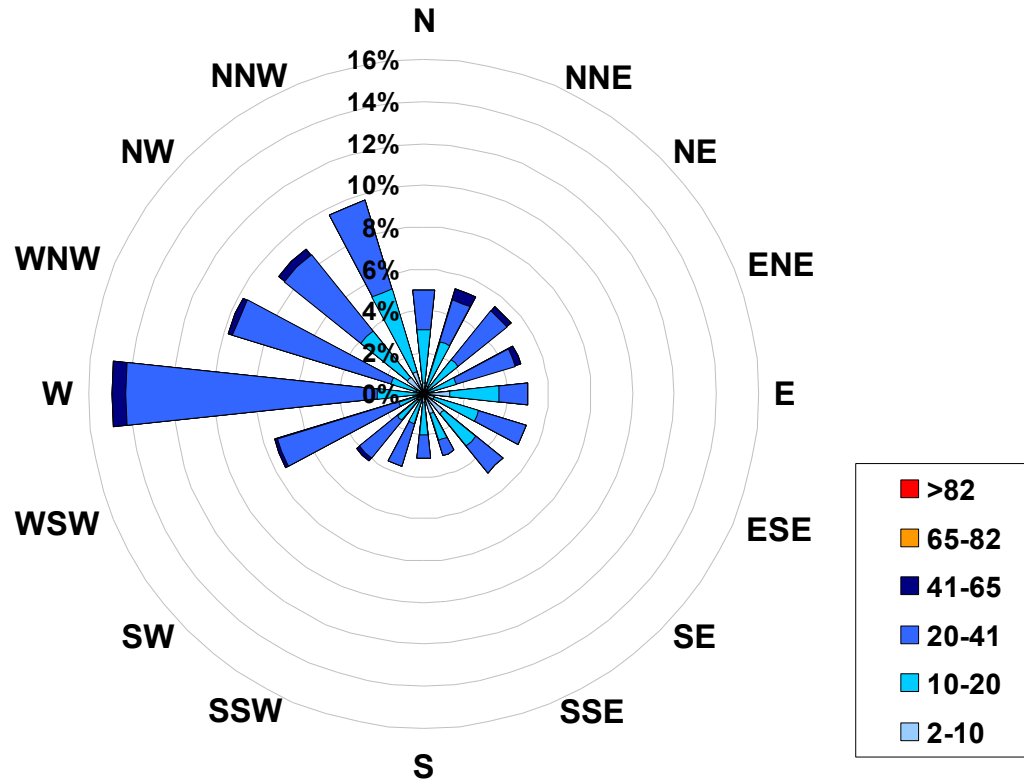


Figure 41. PASZA - Beaverlodge Ozone 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Beaverlodge Site for August 2005



Calms: 0%

Frequency Distribution of O ₃ in ppb			
Range		Frequency (hrs)	
2.0	< 10	66	
10	to 20	230	
20	to 41	410	
41	to 65	20	
65	to 82	0	
	> 82	0	
Total Non-Zero Values			726

PASZA - Beaverlodge Ozone Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Station: Beaverlodge
 Station Owner: PASZA

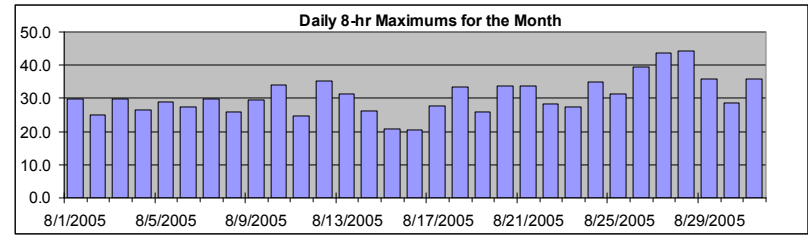
Monitoring Dates: August 1, 2005 to September 1, 2005

Objective Limit: Alberta Environment: 8-hr 65 ppb

Summary

Number of 8-hr Exceedances:	0		
Maximum 8-hr Average:	44.2	ppb	28-Aug 16:00 17:00

Percentile	99	95	75	50	25	5	1
	42.8	34.8	26.5	21.5	16.6	9.6	7.4



Status Flag Characters

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

Day	Mountain Standard Time																							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-Aug-05	11	11	10	10	9	10	10	10	11	13	15	18	20	23	26	28	29	30	30	29	29	29	29	28	27	29.7
2-Aug-05	25	24	24	23	22	21	21	20	19	19	18	17	17	17	17	18	18	19	19	19	19	19	18	17	16	25.1
3-Aug-05	15	14	13	12	11	10	9	9	9	10	12	14	17	20	23	26	28	30	30	30	29	27	26	24	29.7	
4-Aug-05	23	21	20	19	18	17	14	13	12	12	12	13	14	16	18	20	23	24	26	26	26	26	26	26	26	26.5
5-Aug-05	25	24	23	23	23	23	23	23	23	24	24	25	26	26	28	28	29	29	29	29	28	27	27	26	24	28.8
6-Aug-05	24	23	22	22	21	19	18	17	17	18	18	18	19	20	22	23	23	23	23	24	25	26	27	28	27.5	
7-Aug-05	28	29	30	29	27	25	23	21	20	18	18	19	21	22	24	25	26	26	26	26	26	24	23	23	29.7	
8-Aug-05	24	24	23	23	22	21	20	18	16	15	15	16	17	19	21	22	24	25	26	26	26	25	23	22	25.9	
9-Aug-05	20	19	17	16	15	15	16	18	19	20	22	24	26	27	28	30	30	29	29	28	25	23	21	19	29.5	
10-Aug-05	18	17	15	13	11	10	9	8	8	8	10	14	17	21	25	29	32	33	34	34	32	30	28	26	34.1	
11-Aug-05	25	22	19	17	15	14	12	12	12	13	15	17	18	20	22	23	23	24	24	24	25	25	24	24	24.7	
12-Aug-05	24	24	23	22	21	20	20	20	19	20	22	23	25	27	29	31	33	35	35	35	35	33	32	31	35.3	
13-Aug-05	29	26	23	19	16	14	11	9	8	8	9	12	16	20	23	26	28	30	31	31	31	30	28	27	31.5	
14-Aug-05	26	25	24	23	22	21	19	18	17	17	17	18	18	19	21	22	23	23	23	23	23	22	22	21	26.2	
15-Aug-05	21	21	21	21	21	20	19	18	17	17	16	16	16	16	17	18	18	19	19	19	19	18	16	16	20.7	
16-Aug-05	15	15	14	15	15	16	17	17	17	18	18	18	19	19	19	20	20	21	20	20	20	18	16	14	20.6	
17-Aug-05	14	12	11	9	9	9	10	10	9	10	11	13	15	17	19	22	24	26	27	28	27	26	24	22	27.6	
18-Aug-05	20	19	17	15	12	11	10	9	8	7	8	11	14	18	21	25	28	31	33	33	32	31	30	28	33.3	
19-Aug-05	26	24	21	19	17	15	13	11	9	9	10	12	14	16	N	N	N	N	N	N	N	N	21	21	26.0	
20-Aug-05	21	20	19	18	16	15	14	13	12	12	13	16	20	23	27	30	31	33	34	32	31	N	N	N	33.6	
21-Aug-05	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	34	33	33	31	30	29	29	33.9	
22-Aug-05	28	28	27	26	26	25	23	22	21	21	21	22	22	23	25	26	27	26	26	25	24	24	23	22	28.3	
23-Aug-05	21	20	19	19	18	17	17	16	15	15	16	17	19	20	22	24	26	27	27	27	26	26	25	23	27.4	
24-Aug-05	21	19	17	16	14	12	11	9	8	8	9	11	14	17	21	25	29	32	34	35	35	34	33	32	34.9	
25-Aug-05	30	28	26	24	21	19	17	15	14	14	15	17	19	22	25	27	29	31	31	30	28	26	25	23	31.4	
26-Aug-05	21	19	17	16	16	15	14	14	14	14	16	19	23	26	29	32	35	38	39	39	38	37	36	36	39.4	
27-Aug-05	35	33	31	30	29	28	26	24	21	19	19	19	21	24	27	31	35	40	42	44	44	43	41	39	43.8	
28-Aug-05	36	32	28	24	21	18	15	14	17	20	24	28	32	36	40	43	44	44	43	43	43	42	40	38	44.2	
29-Aug-05	36	33	30	26	22	19	15	14	13	13	13	14	14	15	15	16	16	17	17	17	16	15	14	13	35.9	
30-Aug-05	12	11	9	7	7	6	5	5	5	6	7	10	13	17	20	23	25	27	28	29	29	29	29	28	28.6	
31-Aug-05	28	28	28	28	27	26	25	24	24	24	24	25	26	28	31	33	34	35	36	36	36	36	35	33	35.9	
Hourly Max	35.9	32.9	31.4	29.9	28.9	27.8	26.3	24.4	23.8	23.8	24.3	27.8	31.5	35.5	39.9	43.4	44.2	43.8	43.0	43.8	43.8	42.8	41.4	38.9		

PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

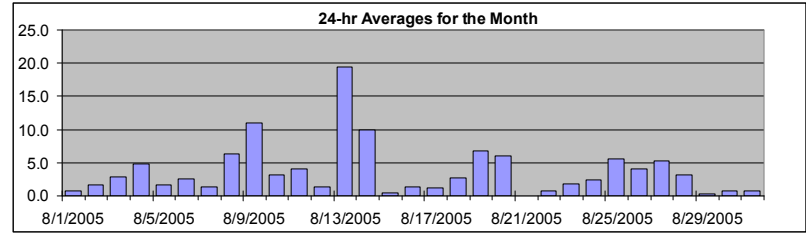
Particulate Matter (PM_{2.5})

Monitoring Dates: August 1, 2005 to September 1, 2005

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:	41.7 μg/m ³ 13-Aug 21:00 22:00
Maximum 24-hr Value:	19.5 μg/m ³ 13-Aug

AIC Time:	0 hrs	Operational Time:	699 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	94.4%
Percentile	99	95	75
	33.3	13.7	5.1
	2.0	0.0	0.0
	0.0	0.0	0.0
Average	3.8 μg/m ³		
Geomean	2.4 μg/m ³		



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00
1-Aug-05	0	2	0	0	1	2	7	0	0	0	D	D	0	0	0	0	0	0	0	0	2	2	0	1	0	0	0.8	7.3
2-Aug-05	0	0	0	1	1	2	4	1	0	1	2	3	3	0	1	4	6	7	0	0	1	0	1	0	1	1.6	7.1	
3-Aug-05	0	1	1	1	1	2	4	6	5	3	1	0	0	2	1	4	4	3	11	2	9	3	0	5	2.9	10.9		
4-Aug-05	5	3	4	5	5	6	7	7	9	7	8	5	7	8	4	5	D	0	4	3	4	2	0	3	4.8	8.5		
5-Aug-05	4	5	1	0	0	0	1	1	2	0	0	0	0	1	1	2	2	5	1	6	1	4	1	2	1.7	6.0		
6-Aug-05	3	1	3	2	4	4	7	0	0	2	1	5	1	4	2	0	14	3	0	D	0	1	0	0	2.5	13.6		
7-Aug-05	0	0	0	1	1	2	3	4	3	2	0	0	0	0	D	0	6	1	0	1	1	4	2	1	1.4	5.6		
8-Aug-05	0	1	1	0	0	3	3	6	6	6	7	7	3	5	5	6	3	6	8	13	14	18	19	15	6.3	18.6		
9-Aug-05	16	16	16	14	12	13	13	12	13	11	9	8	9	13	6	7	16	12	9	10	10	9	7	3	10.9	16.4		
10-Aug-05	1	5	5	4	0	0	9	7	7	7	1	0	2	2	1	1	2	1	1	4	4	6	3	4	3.1	8.9		
11-Aug-05	4	8	4	4	3	5	9	8	7	6	4	1	3	3	8	2	8	1	0	0	0	3	4	2	4.0	8.7		
12-Aug-05	D	1	2	1	0	0	1	1	1	2	2	0	0	2	0	2	0	0	3	2	6	6	1	1	1.4	6.0		
13-Aug-05	2	3	0	0	0	0	5	11	0	9	19	23	28	26	36	40	37	37	37	35	33	42	23	24	19.5	41.7		
14-Aug-05	25	24	23	17	15	13	15	13	14	13	12	14	13	5	0	1	5	3	3	2	0	D	0	0	10.0	24.7		
15-Aug-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	0	3	2	1	0	0.5	3.1		
16-Aug-05	0	0	2	0	0	0	1	0	0	0	0	1	3	2	2	3	2	1	1	3	3	5	4	0	1.4	5.3		
17-Aug-05	0	0	0	0	0	0	1	0	2	3	2	D	0	0	0	2	0	3	0	2	2	5	2	3	1.2	5.0		
18-Aug-05	0	1	2	1	1	0	6	1	3	5	2	D	0	3	5	3	1	4	7	4	4	3	2	3	2.7	7.4		
19-Aug-05	4	5	4	4	4	4	6	7	11	11	11	11	8	6	C	C	C	0	11	7	5	D	8	9	6.8	11.3		
20-Aug-05	4	6	10	14	7	3	16	8	14	6	7	0	0	D	0	5	5	0	0	8	N	N	N	N	6.0	15.9		
21-Aug-05	N	N	N	N	N	N	N	N	N	N	N	12	13	10	4	9	6	D	1	0	0	D	D	0	N	13.3		
22-Aug-05	0	0	0	0	0	0	2	2	0	0	0	D	D	1	0	1	3	3	1	3	D	0	1	0	0.7	2.7		
23-Aug-05	1	0	0	0	0	1	3	3	4	4	0	3	4	1	7	0	2	3	5	0	0	0	1	1	1.8	7.3		
24-Aug-05	0	1	1	0	2	0	3	15	0	0	4	0	D	1	0	0	0	4	5	6	2	5	5	4	2.4	14.6		
25-Aug-05	4	3	14	4	3	3	4	6	7	8	9	10	5	0	3	2	1	3	9	10	15	D	1	6	5.6	15.0		
26-Aug-05	4	3	5	3	4	3	7	7	12	12	D	D	3	4	3	5	5	1	0	2	4	2	2	1	4.0	12.3		
27-Aug-05	3	2	2	3	2	3	4	9	11	6	7	2	2	0	0	7	12	10	9	0	9	6	10	9	5.3	11.9		
28-Aug-05	9	9	6	8	6	8	8	2	D	0	0	D	0	0	0	0	0	1	4	6	D	0	0	0	3.2	9.0		
29-Aug-05	0	0	D	0	0	0	D	0	0	0	0	0	0	0	1	2	2	0	0	2	0	0	0	0	0.3	2.1		
30-Aug-05	0	0	1	0	0	0	1	5	1	2	0	2	D	3	0	0	2	0	0	1	0	0	0	0	0.8	5.4		
31-Aug-05	0	1	0	0	0	0	2	3	2	0	0	1	1	1	0	0	2	0	0	3	1	1	2	1	0.8	2.6		
Hourly Avg	3.0	3.2	3.6	2.9	2.3	2.7	5.3	4.7	4.5	4.2	3.8	4.3	3.8	3.5	3.0	3.7	4.9	3.7	4.5	4.5	4.6	4.9	3.3	3.2				
Hourly Max	24.7	24.2	23.3	16.9	15.0	13.1	15.9	14.6	13.8	13.4	18.5	22.8	27.7	25.8	35.7	39.5	36.7	37.4	36.5	35.1	33.3	41.7	22.7	24.0				

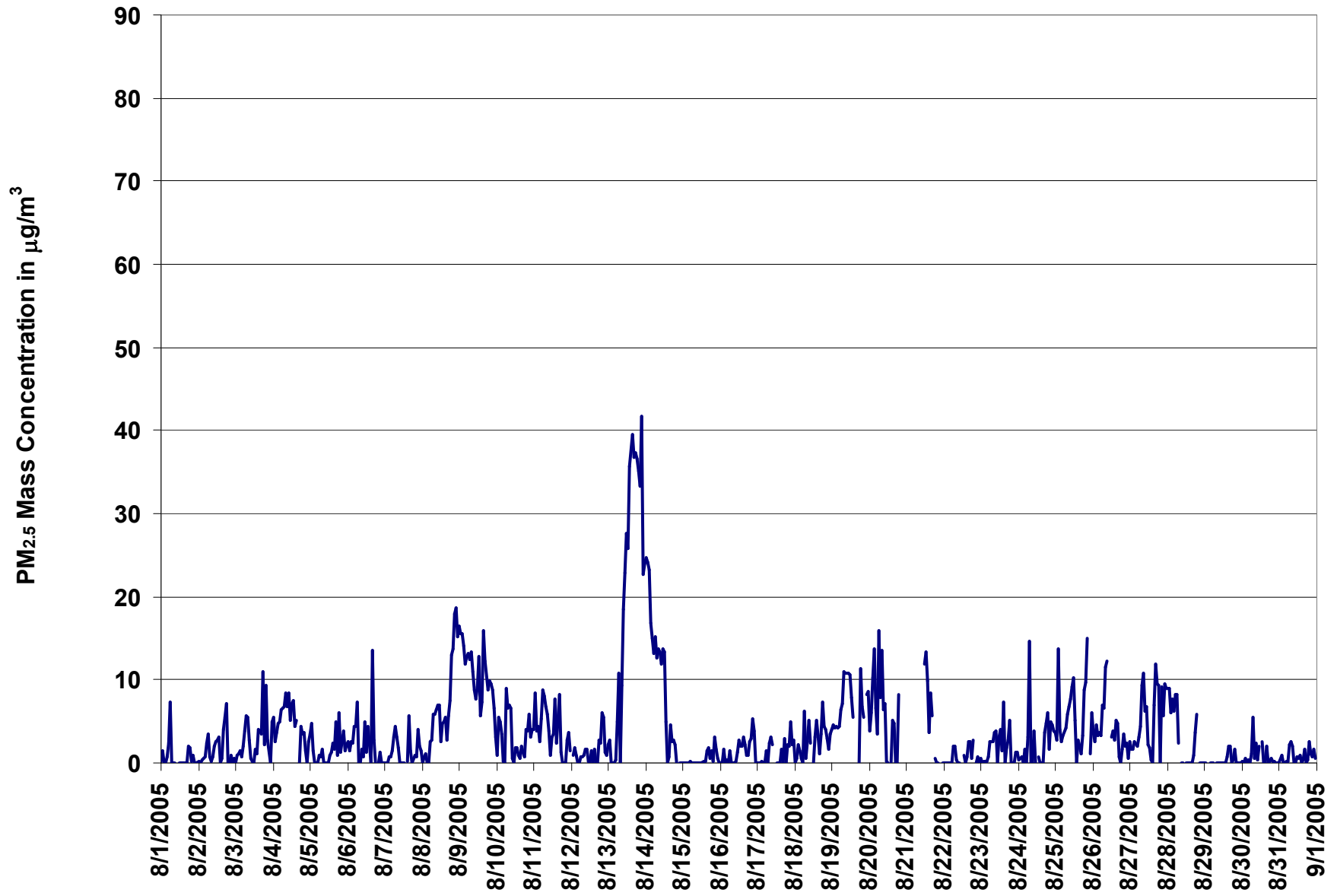


Figure 42. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

HOURLY MAXIMUM TABLE

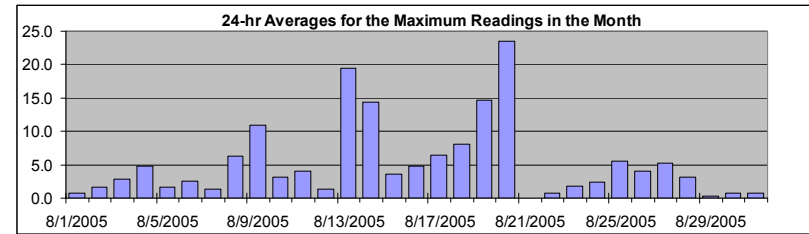
Particulate Matter (PM_{2.5})

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	57.2	µg/m ³	20-Aug	8:00 9:00
Maximum 24-hr Value:	23.5	µg/m ³	20-Aug	

AIC Time:	0 hrs	Operational Time:	699 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	94.4%						
Percentile	99	95	75	50	25	5	1	Average	Geomean
	35.7	19.4	6.9	2.8	0.5	0.0	0.0	5.3 µg/m ³	3.3 µg/m ³



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start 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-Aug-05	0	2	0	0	1	2	7	0	0	0	D	D	0	0	0	0	0	0	2	2	0	1	0	0	0.8	7.3	
2-Aug-05	0	0	0	1	1	2	4	1	0	1	2	3	3	3	0	1	4	6	7	0	0	1	0	1	1.6	7.1	
3-Aug-05	0	1	1	1	1	2	4	6	5	3	1	0	0	2	1	4	4	3	11	2	9	3	0	5	2.9	10.9	
4-Aug-05	5	3	4	5	5	6	7	7	9	7	8	5	7	8	4	5	D	0	4	3	4	2	0	3	4.8	8.5	
5-Aug-05	4	5	1	0	0	0	1	1	2	0	0	0	0	1	1	2	2	5	1	6	1	4	1	2	1.7	6.0	
6-Aug-05	3	1	3	2	4	4	7	0	0	2	1	5	1	4	2	0	14	3	0	D	0	1	0	0	2.5	13.6	
7-Aug-05	0	0	0	1	1	2	3	4	3	2	0	0	0	0	D	0	6	1	0	1	1	4	2	1	1.4	5.6	
8-Aug-05	0	1	1	0	0	3	3	6	6	6	7	7	3	5	5	6	3	6	8	13	14	18	19	15	6.3	18.6	
9-Aug-05	16	16	16	14	12	13	13	12	13	11	9	8	9	13	6	7	16	12	9	10	10	9	7	3	10.9	16.4	
10-Aug-05	1	5	5	4	0	0	9	7	7	7	1	0	2	2	1	1	2	1	1	4	4	6	3	4	3.1	8.9	
11-Aug-05	4	8	4	4	3	5	9	8	7	6	4	1	3	3	8	2	8	1	0	0	0	3	4	2	4.0	8.7	
12-Aug-05	D	1	2	1	0	0	1	1	1	2	2	0	0	2	0	2	0	0	3	2	6	6	1	1	1.4	6.0	
13-Aug-05	2	3	0	0	0	0	5	11	0	9	19	23	28	26	36	40	37	37	37	35	33	42	23	24	19.5	41.7	
14-Aug-05	25	24	23	17	15	13	15	13	14	23	22	30	23	13	12	10	12	7	7	8	4	D	1	2	14.4	29.7	
15-Aug-05	3	2	1	1	0	4	2	3	1	3	4	4	6	6	8	6	5	4	5	5	4	2	2	2	3.6	7.9	
16-Aug-05	2	1	4	2	3	3	5	3	2	4	5	5	6	7	7	7	8	4	6	8	5	8	7	4	4.8	8.0	
17-Aug-05	2	0	0	3	3	2	4	2	6	9	12	D	6	4	8	12	11	9	5	7	11	12	14	7	6.5	14.3	
18-Aug-05	3	5	6	3	5	3	11	17	9	9	10	D	5	11	12	15	9	8	15	9	8	5	3	6	8.1	16.6	
19-Aug-05	6	6	6	7	7	7	12	10	15	19	17	19	18	19	C	C	C	11	27	20	29	D	23	14	14.7	29.4	
20-Aug-05	19	28	31	26	14	20	41	19	57	19	19	15	10	D	19	16	25	20	28	21	N	N	N	N	23.5	57.2	
21-Aug-05	N	N	N	N	N	N	N	N	N	N	N	12	13	10	4	9	6	D	1	0	0	D	D	0	N	13.3	
22-Aug-05	0	0	0	0	0	0	2	2	0	0	0	D	D	1	0	1	3	3	1	3	D	0	1	0	0.7	2.7	
23-Aug-05	1	0	0	0	0	1	3	3	4	4	0	3	4	1	7	0	2	3	5	0	0	0	1	1	1.8	7.3	
24-Aug-05	0	1	1	0	2	0	3	15	0	0	4	0	D	1	0	0	0	4	5	6	2	5	5	4	2.4	14.6	
25-Aug-05	4	3	14	4	3	3	4	6	7	8	9	10	5	0	3	2	1	3	9	10	15	D	1	6	5.6	15.0	
26-Aug-05	4	3	5	3	4	3	7	7	12	12	D	D	3	4	3	5	5	1	0	2	4	2	2	1	4.0	12.3	
27-Aug-05	3	2	2	3	2	3	4	9	11	6	7	2	2	0	0	7	12	10	9	0	9	6	10	9	5.3	11.9	
28-Aug-05	9	9	6	8	6	8	8	2	D	0	0	D	0	0	0	0	0	1	4	6	D	0	0	0	3.2	9.0	
29-Aug-05	0	0	D	0	0	0	D	0	0	0	0	0	0	0	1	2	2	0	0	2	0	0	0	0	0.3	2.1	
30-Aug-05	0	0	1	0	0	0	1	5	1	2	0	2	D	3	0	0	2	0	0	1	0	0	0	0	0.8	5.4	
31-Aug-05	0	1	0	0	0	0	2	3	2	0	0	1	1	1	0	0	2	0	0	0	3	1	1	2	1	0.8	2.6
Hourly Avg	4.0	4.3	4.7	3.7	3.1	3.7	6.8	6.0	6.6	5.7	5.7	6.2	5.6	5.0	5.1	5.4	6.8	5.4	6.7	6.2	6.2	5.4	4.5	3.9			
Hourly Max	24.7	27.9	30.7	26.0	15.0	19.5	40.7	18.9	57.2	22.8	22.4	29.7	27.7	25.8	35.7	39.5	36.7	37.4	36.5	35.1	33.3	41.7	22.7	24.0			

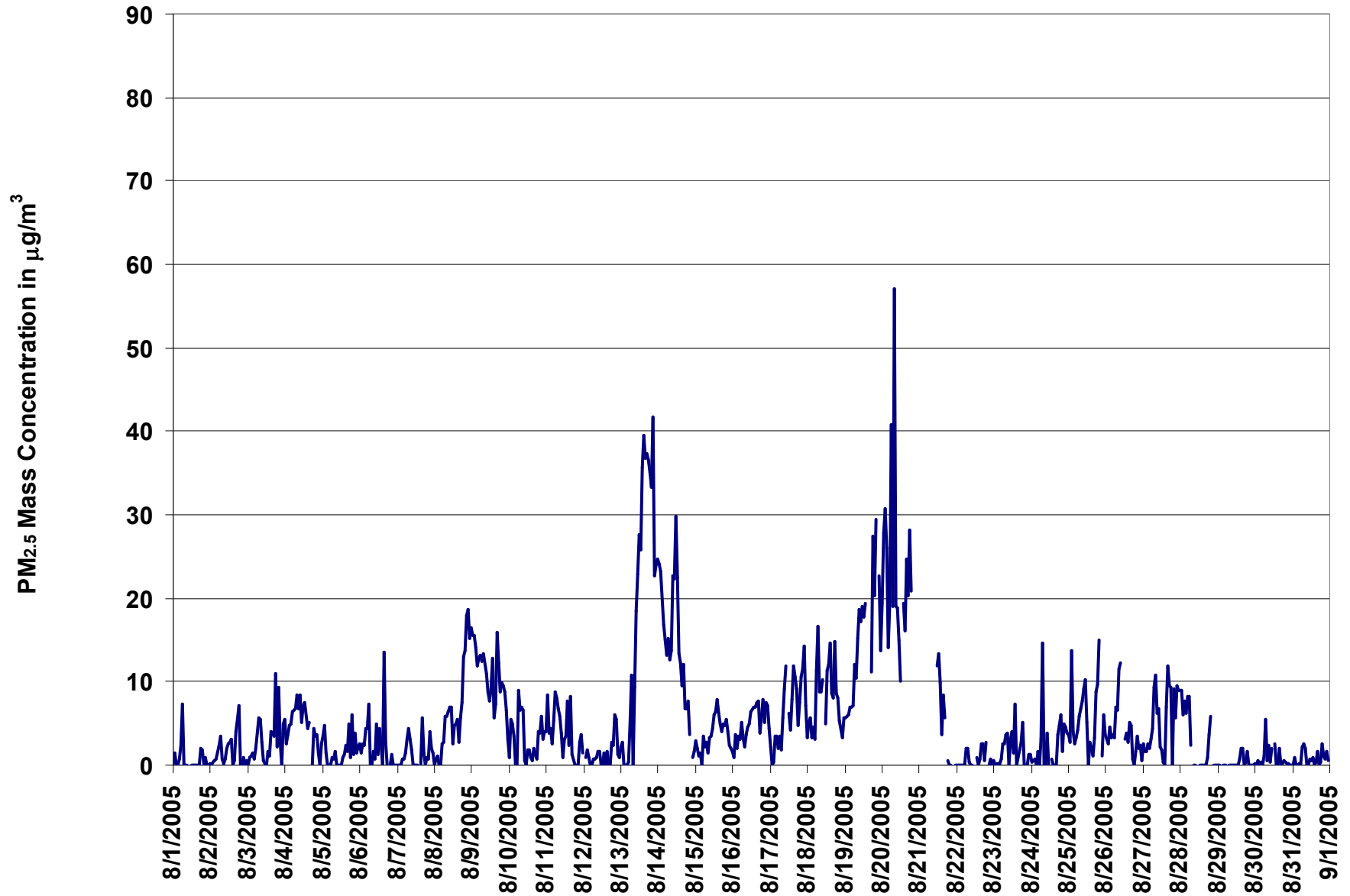
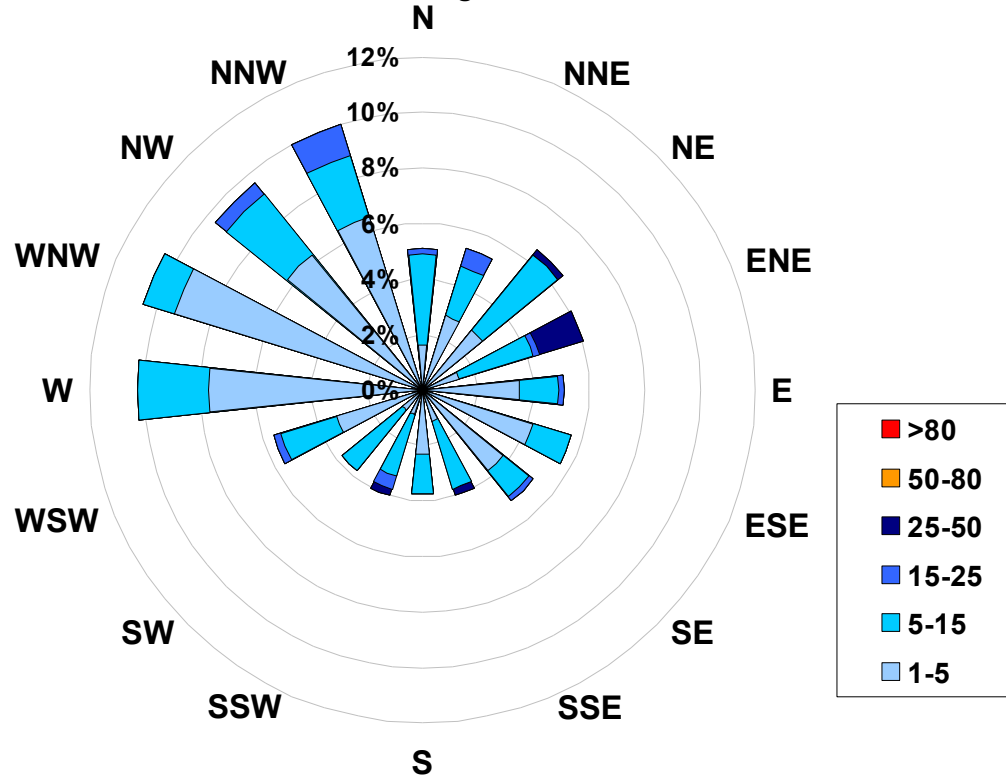


Figure 43. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Beaverlodge Site for August 2005



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range		Frequency (hrs)	
1.0	< 5	517	
5	to 15	152	
15	to 25	17	
25	to 50	10	
50	to 80	0	
	> 80	0	
Total Non-Zero Values			699

PASZA - Beaverlodge Relative Humidity Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

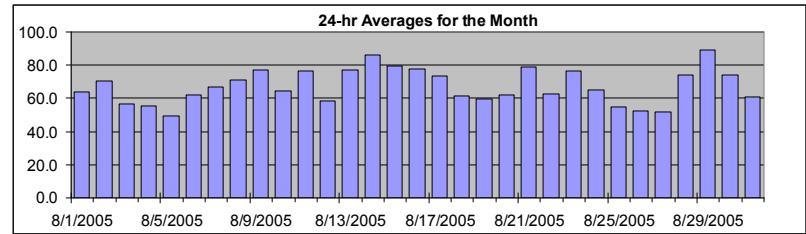
Relative Humidity (RH)

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	97.0	%	17-Aug	4:00 5:00
Maximum 24-hr Value:	89.2	%	29-Aug	

AIC Time:	0 hrs	Operational Time:	744 hrs					
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	96.0	94.0	83.0	71.0	53.0	34.0	28.4	67.4 %



Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
	Hour Start	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
1-Aug-05	93	95	94	94	94	95	93	85	75	64	54	43	42	39	35	33	33	33	36	42	52	63	71	75	63.9	95.0
2-Aug-05	79	67	60	62	65	72	81	82	72	62	61	62	71	64	57	49	57	74	85	76	82	88	81	85	70.6	88.0
3-Aug-05	89	90	90	90	91	88	80	74	69	59	46	39	36	33	29	29	30	32	39	34	39	49	46	55	56.5	91.0
4-Aug-05	63	61	63	64	69	74	74	67	62	57	54	49	54	55	50	44	35	33	37	46	53	58	53	61	55.7	74.0
5-Aug-05	62	59	58	59	63	62	58	54	50	44	40	38	36	35	33	34	35	40	43	49	50	56	58	63	49.1	63.0
6-Aug-05	60	60	61	63	69	75	81	62	48	46	42	47	46	51	45	44	75	84	76	62	66	70	77	79	62.0	84.0
7-Aug-05	82	80	88	88	87	86	79	77	73	69	61	53	48	43	39	43	59	55	51	56	61	75	73	84	67.1	88.0
8-Aug-05	88	91	93	92	94	94	93	91	87	80	75	65	56	50	48	46	46	47	53	58	67	77	76	76	71.4	94.0
9-Aug-05	78	76	79	82	81	82	78	77	75	76	70	58	58	64	60	60	76	82	84	85	90	92	94	92	77.0	94.0
10-Aug-05	89	91	94	96	96	96	95	88	80	70	60	50	42	43	35	36	36	36	38	42	51	58	59	62	64.3	96.0
11-Aug-05	65	75	81	86	85	85	91	93	93	90	83	74	74	69	71	68	71	67	61	62	66	70	75	77	76.3	93.0
12-Aug-05	72	73	77	77	77	75	73	64	63	61	56	49	43	42	37	36	37	36	40	42	55	70	72	73	58.3	77.0
13-Aug-05	78	93	94	96	96	96	94	85	76	65	62	54	52	56	66	72	74	68	70	78	82	84	80	81	77.2	96.0
14-Aug-05	86	93	94	91	91	90	91	86	83	78	75	78	87	86	83	82	81	83	84	86	90	91	91	88	86.2	94.0
15-Aug-05	92	92	91	90	88	89	89	87	84	81	78	71	68	67	63	65	68	70	73	73	79	82	83	79	79.3	92.0
16-Aug-05	78	75	78	79	80	81	84	84	80	75	73	70	70	71	71	74	75	73	73	76	80	84	89	88	77.5	89.0
17-Aug-05	89	91	94	95	96	97	97	96	95	89	76	60	57	52	46	46	42	47	42	47	58	76	84	86	73.3	97.0
18-Aug-05	83	83	88	95	95	96	91	80	74	68	55	42	34	32	33	32	32	33	42	50	57	59	61	65	61.7	96.0
19-Aug-05	70	75	83	84	87	89	84	80	64	58	52	45	41	37	35	32	33	35	46	56	62	60	62	64	59.8	89.0
20-Aug-05	65	69	71	80	83	77	88	87	78	81	69	55	45	37	34	37	40	39	39	49	61	64	69	75	62.2	88.0
21-Aug-05	74	69	66	64	71	65	70	76	82	87	84	83	82	80	75	81	82	93	89	86	88	85	80	78	78.8	93.0
22-Aug-05	79	76	81	81	78	76	74	74	68	59	53	47	41	42	39	41	46	54	58	62	64	67	72	76	62.8	81.0
23-Aug-05	84	86	86	88	90	91	84	74	71	66	54	50	53	71	75	71	67	74	84	80	84	77	87	88	76.5	91.0
24-Aug-05	94	96	96	96	97	97	96	88	82	76	65	52	42	38	33	31	29	31	37	46	54	58	62	67	65.1	97.0
25-Aug-05	72	74	78	79	78	81	76	67	62	58	50	47	41	33	30	27	27	28	34	40	58	61	53	67	55.0	81.0
26-Aug-05	72	71	74	74	73	73	69	65	59	58	37	27	27	30	31	34	33	37	39	43	52	56	62	60	52.3	74.0
27-Aug-05	65	67	67	72	71	74	73	65	72	58	46	38	31	27	23	25	33	37	40	43	46	49	53	67	51.8	74.0
28-Aug-05	72	79	82	81	84	88	89	84	71	70	71	64	58	56	51	46	49	53	63	92	89	92	95	94	73.9	95.0
29-Aug-05	93	91	91	90	91	94	94	94	95	93	92	91	90	89	86	82	76	73	75	81	94	95	95	95	89.2	95.0
30-Aug-05	96	96	96	96	96	95	94	89	81	76	69	60	54	58	55	49	50	53	54	61	69	75	79	78	74.1	96.0
31-Aug-05	77	76	77	84	83	85	81	75	68	55	45	42	42	41	38	41	43	44	45	52	58	65	72	74	61.0	85.0
Hourly Avg	78.7	79.7	81.5	82.8	83.8	84.5	83.7	79.0	73.9	68.7	61.5	54.9	52.3	51.3	48.6	48.1	50.6	53.0	55.6	59.7	66.1	70.8	73.1	75.9		
Hourly Max	96.0	96.0	96.0	96.0	97.0	97.0	97.0	96.0	95.0	93.0	92.0	91.0	90.0	89.0	86.0	82.0	82.0	93.0	89.0	92.0	94.0	95.0	95.0	95.0		

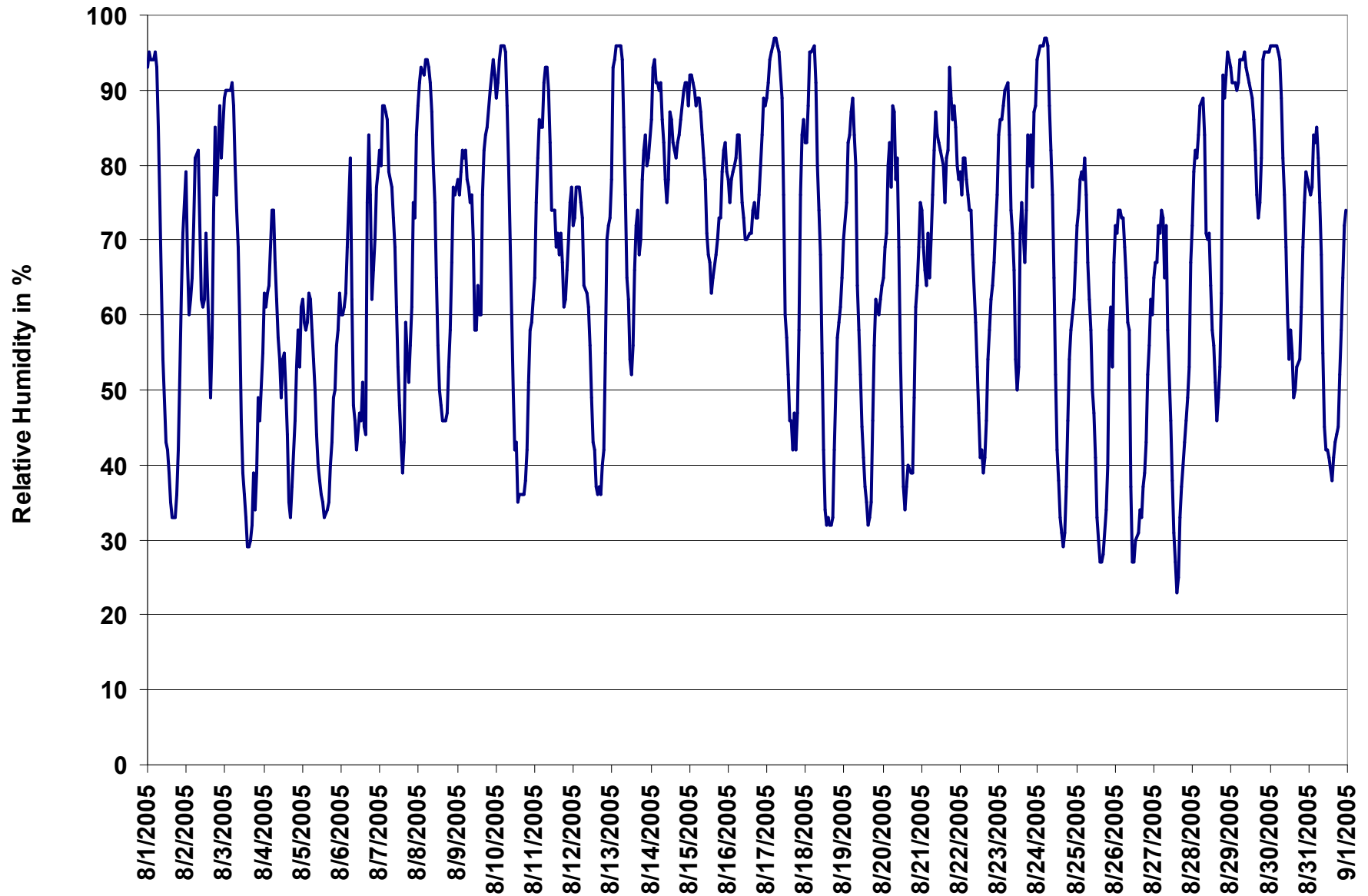


Figure 44. PASZA - Beaverlodge Relative Humidity 1-hr Average Monthly Trend

PASZA - Beaverlodge Temperature Monthly Summary

HOURLY AVERAGE TABLE

Ambient Temperature (T)

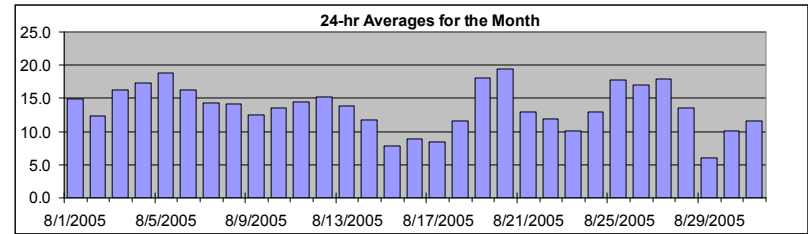
Station: Beaverlodge
Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	28.3	°C	25-Aug	16:00 17:00
Maximum 24-hr Value:	19.4	°C	20-Aug	

AIC Time:	0 hrs	Operational Time:	744 hrs					
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average
	26.9	23.3	17.3	13.2	9.7	5.1	3.4	13.6 °C



Status Flag Characters

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

Day	Mountain Standard Time																										24-hour Average	Daily Maximum
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Aug-05	13	13	13	12	12	12	13	14	15	17	19	19	18	18	19	19	19	18	18	16	13	11	9	9	14.9	19.4		
2-Aug-05	8	10	12	11	11	10	10	10	12	14	14	14	13	15	16	17	16	14	13	14	12	11	11	10	12.4	17.2		
3-Aug-05	9	8	8	7	7	7	9	11	14	17	19	21	21	22	24	24	24	24	23	23	21	17	16	14	16.2	24.2		
4-Aug-05	12	12	11	11	10	10	11	13	15	18	19	21	20	20	21	24	25	25	24	22	20	18	18	16	17.3	25.0		
5-Aug-05	16	17	17	17	16	15	17	18	19	20	21	21	21	22	23	23	22	21	20	19	18	17	16	14	18.8	23.3		
6-Aug-05	15	14	14	13	13	12	13	16	19	20	21	20	21	20	22	22	16	15	16	17	15	14	12	11	16.2	21.9		
7-Aug-05	10	10	8	8	8	9	10	12	13	15	17	18	19	20	21	19	17	18	19	18	16	13	13	11	14.3	20.9		
8-Aug-05	10	10	10	10	9	9	9	11	12	13	14	16	17	18	19	20	20	19	18	16	14	13	13	13	14.1	20.1		
9-Aug-05	13	13	13	12	12	11	12	12	12	12	13	15	15	14	14	15	14	13	12	12	11	11	10	10	12.5	15.2		
10-Aug-05	9	9	9	8	7	5	7	9	11	14	16	17	19	18	20	19	19	19	18	18	16	15	14	14	13.6	19.8		
11-Aug-05	13	13	12	11	11	12	11	12	13	13	15	16	16	17	17	18	17	18	18	17	15	14	14	13	14.4	18.1		
12-Aug-05	12	11	11	11	10	10	10	12	13	14	15	17	19	19	21	22	21	21	20	20	17	14	14	13	15.2	21.5		
13-Aug-05	11	9	8	7	7	7	7	9	12	15	17	21	22	21	18	17	16	18	17	16	15	15	14	14	13.9	21.7		
14-Aug-05	14	13	13	13	12	12	12	12	13	13	13	13	12	12	12	12	13	12	12	11	10	9	8	8	11.8	13.5		
15-Aug-05	7	6	6	6	6	6	6	6	7	7	7	8	9	9	10	10	10	9	9	9	8	8	8	8	7.8	10.1		
16-Aug-05	8	8	7	7	7	7	7	7	8	8	9	10	11	11	11	10	10	10	10	10	9	9	9	8	8.8	10.6		
17-Aug-05	7	6	5	4	3	3	3	3	4	6	9	11	12	13	14	14	14	14	14	14	11	8	6	5	8.5	14.3		
18-Aug-05	5	4	3	2	2	1	2	5	7	10	13	15	17	19	20	21	21	21	19	17	14	13	12	12	11.6	21.4		
19-Aug-05	11	10	9	8	8	8	9	10	15	17	20	23	25	26	27	28	28	27	25	23	21	20	19	19	18.1	28.1		
20-Aug-05	18	17	17	16	15	16	14	15	18	17	19	22	24	25	25	24	24	24	24	24	21	19	18	17	16	19.4	24.7	
21-Aug-05	15	15	14	14	13	13	13	13	12	12	13	13	14	15	16	15	15	12	13	12	11	10	10	9	12.9	15.7		
22-Aug-05	8	9	7	7	7	7	8	9	11	13	15	16	18	17	18	18	16	15	14	14	12	10	9	8	12.0	18.3		
23-Aug-05	6	6	5	5	4	4	6	9	10	13	16	17	17	13	13	14	14	12	11	12	10	10	8	8	10.0	17.3		
24-Aug-05	6	6	6	5	5	4	4	7	9	11	15	18	19	20	21	21	22	21	20	17	15	14	13	12	12.9	21.9		
25-Aug-05	11	10	9	8	8	7	8	11	13	16	19	22	24	26	27	28	28	28	26	25	21	18	18	15	17.8	28.3		
26-Aug-05	13	13	12	12	11	11	12	14	16	18	22	23	23	22	22	22	23	22	21	19	16	15	14	14	17.0	23.1		
27-Aug-05	12	12	12	10	11	10	10	13	13	17	20	23	25	27	27	26	25	24	23	21	20	19	18	15	18.0	27.2		
28-Aug-05	14	13	12	13	13	12	13	14	13	13	15	15	16	18	19	18	17	15	11	11	10	10	10	10	13.6	19.0		
29-Aug-05	10	9	8	7	7	5	5	4	4	4	4	4	4	5	6	7	8	9	9	8	6	5	5	4	6.0	9.5		
30-Aug-05	4	4	4	4	4	5	5	6	9	11	13	15	15	14	16	16	17	16	15	13	11	10	9	8	10.1	16.5		
31-Aug-05	8	9	8	6	6	6	7	9	11	14	16	17	17	17	17	16	16	15	14	13	12	10	9	8	11.7	17.0		
Hourly Avg	10.6	10.3	9.7	9.3	8.8	8.5	9.0	10.5	12.0	13.7	15.4	16.8	17.4	17.8	18.5	18.7	18.3	17.8	17.2	16.1	14.2	12.9	12.0	11.1				
Hourly Max	18.4	17.5	17.4	16.8	15.5	16.0	16.6	17.9	19.2	20.4	21.6	23.0	24.6	26.5	27.2	28.2	28.3	27.8	26.3	25.1	20.6	19.7	18.8	18.6				

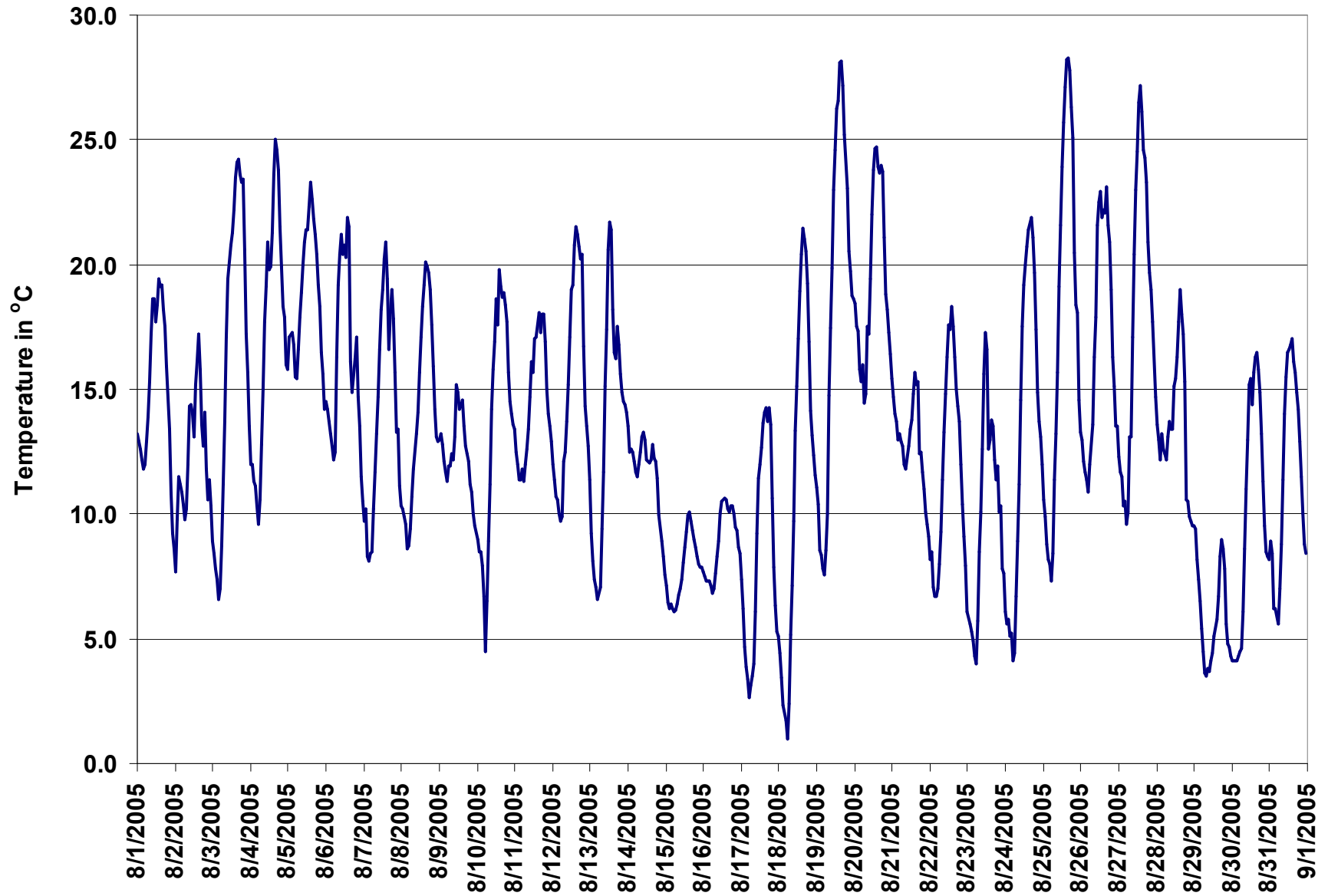


Figure 45. PASZA - Beaverlodge Temperature 1-hr Average Monthly Trend

PASZA - Beaverlodge Scalar Wind Speed Monthly Summary

HOURLY AVERAGE TABLE

Wind Speed (WSs)

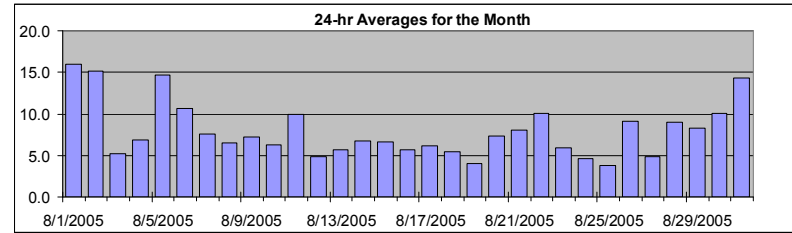
Station: Beaverlodge
Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	28.1	km/hr	31-Aug	13:00 14:00
Maximum 24-hr Value:	16.0	km/hr	1-Aug	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	25.7	20.1	9.7	6.5	4.2	2.5	1.7	8.0 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 Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Aug-05	6	9	9	13	7	6	9	3	11	19	23	26	21	23	23	27	23	27	26	22	17	12	11	12	16.0	26.9
2-Aug-05	10	19	28	25	22	19	20	18	17	18	17	14	12	12	20	26	20	10	8	11	6	4	5	4	15.1	27.9
3-Aug-05	2	3	3	3	3	3	4	3	4	6	9	9	11	9	8	7	6	5	4	5	4	4	6	3	5.2	11.0
4-Aug-05	3	4	3	3	3	4	3	4	4	4	8	11	11	8	6	8	14	18	14	9	7	7	5	5	6.9	18.3
5-Aug-05	7	13	13	13	14	13	14	18	20	22	23	21	22	21	21	22	18	11	11	8	9	8	8	4	14.7	23.4
6-Aug-05	5	6	7	8	4	3	6	12	16	18	17	17	15	11	12	12	19	9	8	16	14	11	4	6	10.6	19.0
7-Aug-05	4	5	2	3	6	6	6	9	11	11	10	10	11	10	8	7	13	5	5	5	7	8	7	17	7.6	17.1
8-Aug-05	9	6	8	6	6	5	6	6	7	7	8	7	8	10	9	7	8	8	7	5	5	5	2	3	6.5	9.6
9-Aug-05	8	8	8	9	9	10	9	7	8	9	8	7	8	5	6	6	8	7	8	8	5	3	3	5	7.2	10.3
10-Aug-05	6	7	8	10	6	3	6	8	6	5	5	4	7	6	7	9	8	9	8	6	4	5	5	5	6.3	9.6
11-Aug-05	5	3	7	7	3	6	9	11	10	13	14	14	14	16	15	12	14	14	12	11	8	7	8	8	9.9	15.8
12-Aug-05	8	7	8	4	3	5	4	3	5	5	5	4	4	5	4	6	7	6	5	3	2	4	5	4	4.8	7.9
13-Aug-05	3	2	2	3	2	3	3	2	3	3	3	6	12	19	23	13	10	4	4	5	2	4	5	3	5.7	23.0
14-Aug-05	3	2	4	4	4	4	3	5	6	6	6	6	7	7	6	8	7	6	5	10	13	15	14	11	6.7	15.2
15-Aug-05	8	8	7	6	5	3	2	1	6	8	8	9	8	9	7	9	9	10	9	7	5	5	4	5	6.6	9.6
16-Aug-05	6	6	6	7	5	6	7	8	7	7	5	2	4	7	7	7	7	6	4	3	3	4	5	6	5.6	8.0
17-Aug-05	7	7	6	8	7	6	4	6	5	5	6	7	6	9	10	10	9	7	8	5	3	3	3	3	6.2	10.1
18-Aug-05	4	3	3	2	2	3	2	3	4	5	6	8	6	6	5	6	6	7	11	10	9	8	7	6	5.4	10.6
19-Aug-05	5	3	2	1	1	2	2	2	2	4	5	6	10	7	7	4	4	6	5	3	3	4	3	4	4.0	10.1
20-Aug-05	3	5	3	9	8	9	7	5	6	9	7	7	10	12	14	12	9	5	3	3	7	7	10	8	7.4	14.4
21-Aug-05	11	10	7	6	3	8	4	4	6	5	6	6	8	6	5	3	3	10	11	10	11	15	17	16	8.0	17.2
22-Aug-05	9	11	8	6	8	5	5	7	10	17	18	16	15	14	15	15	13	6	9	7	8	7	7	5	10.1	18.4
23-Aug-05	3	3	3	2	1	2	3	4	7	7	6	8	9	6	10	12	12	6	7	7	9	7	5	4	6.0	11.6
24-Aug-05	2	1	2	3	3	2	2	3	4	4	4	5	6	7	8	6	4	7	9	7	7	6	6	5	4.6	8.5
25-Aug-05	3	3	4	4	3	2	3	2	3	4	3	4	6	6	7	7	4	4	4	3	3	4	5	3	3.8	7.2
26-Aug-05	3	3	4	4	4	4	3	3	3	5	15	22	19	14	12	13	15	22	18	16	8	4	4	3	9.1	21.9
27-Aug-05	3	4	4	4	3	4	3	3	3	3	3	2	4	6	3	6	6	6	6	8	11	12	8	6	4.8	11.5
28-Aug-05	7	6	4	2	4	7	6	15	21	19	11	13	14	13	12	9	6	6	7	9	12	5	5	3	9.0	21.4
29-Aug-05	8	12	14	12	11	12	12	12	12	11	10	9	8	7	8	5	4	5	4	5	5	4	4	4	8.2	13.9
30-Aug-05	4	5	5	3	3	4	3	3	5	3	8	12	22	19	18	22	22	19	18	16	11	9	4	7	10.1	22.3
31-Aug-05	7	9	11	6	9	5	5	8	10	21	24	23	24	28	28	26	19	21	18	10	13	12	5	7	14.4	28.1
1-hr Average	5.5	6.1	6.5	6.3	5.5	5.5	5.6	6.4	7.8	9.0	9.7	10.2	11.0	10.8	11.2	10.9	10.5	9.3	8.8	8.2	7.5	6.7	6.1	5.9		
Hourly Max	10.9	19.0	27.9	24.6	22.1	18.7	19.6	18.4	21.4	22.1	23.7	26.3	24.3	28.1	27.5	26.9	22.5	26.5	25.6	21.9	17.1	15.2	17.2	17.1		

PASZA - Beaverlodge Vector Wind Speed Monthly Summary

HOURLY AVERAGE TABLE

Wind Speed (WSv)

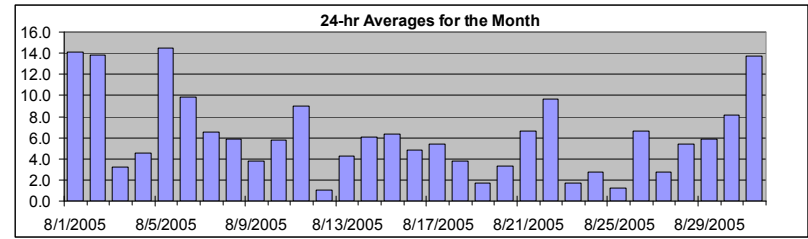
Station: Beaverlodge
 Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Maximum 1-hr Average:	28.1	km/hr	31-Aug	13:00 14:00
Maximum 24-hr Value:	14.4	km/hr	5-Aug	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	25.7	20.1	9.7	6.5	4.2	2.5	1.7	13.3 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 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-Aug-05	6	9	9	13	7	6	9	3	11	19	23	26	21	23	23	27	23	27	26	22	17	12	11	12	14.1	26.9
2-Aug-05	10	19	28	25	22	19	20	18	17	18	17	14	12	12	20	26	20	10	8	11	6	4	5	4	13.8	27.9
3-Aug-05	2	3	3	3	3	3	4	3	4	6	9	9	11	9	8	7	6	5	4	5	4	4	6	3	3.2	11.0
4-Aug-05	3	4	3	3	3	4	3	4	4	4	8	11	11	8	6	8	14	18	14	9	7	7	5	5	4.6	18.3
5-Aug-05	7	13	13	13	14	13	14	18	20	22	23	21	22	21	21	22	18	11	11	8	9	8	8	4	14.4	23.4
6-Aug-05	5	6	7	8	4	3	6	12	16	18	17	17	15	11	12	12	19	9	8	16	14	11	4	6	9.9	19.0
7-Aug-05	4	5	2	3	6	6	6	9	11	11	10	10	11	10	8	7	13	5	5	5	7	8	7	17	6.6	17.1
8-Aug-05	9	6	8	6	6	5	6	6	7	7	8	7	8	10	9	7	8	8	7	5	5	5	2	3	5.9	9.6
9-Aug-05	8	8	8	9	9	10	9	7	8	9	8	7	8	5	6	6	8	7	8	8	5	3	3	5	3.8	10.3
10-Aug-05	6	7	8	10	6	3	6	8	6	5	5	4	7	6	7	9	8	9	8	6	4	5	5	5	5.8	9.6
11-Aug-05	5	3	7	7	3	6	9	11	10	13	14	14	14	16	15	12	14	14	12	11	8	7	8	8	9.0	15.8
12-Aug-05	8	7	8	4	3	5	4	3	5	5	5	4	4	5	4	6	7	6	5	3	2	4	5	4	1.1	7.9
13-Aug-05	3	2	2	3	2	3	3	2	3	3	3	6	12	19	23	13	10	4	4	5	2	4	5	3	4.3	23.0
14-Aug-05	3	2	4	4	4	4	3	5	6	6	6	6	7	7	6	8	7	6	5	10	13	15	14	11	6.1	15.2
15-Aug-05	8	8	7	6	5	3	2	1	6	8	8	9	8	9	7	9	9	10	9	7	5	5	4	5	6.3	9.6
16-Aug-05	6	6	6	7	5	6	7	8	7	7	5	2	4	7	7	7	6	4	3	3	4	5	6	6	4.8	8.0
17-Aug-05	7	7	6	8	7	6	4	6	5	5	6	7	6	9	10	10	9	7	8	5	3	3	3	3	5.4	10.1
18-Aug-05	4	3	3	2	2	3	2	3	4	5	6	8	6	6	5	6	6	7	11	10	9	8	7	6	3.8	10.6
19-Aug-05	5	3	2	1	1	2	2	2	2	4	5	6	10	7	7	4	4	6	5	3	3	4	3	4	1.7	10.1
20-Aug-05	3	5	3	9	8	9	7	5	6	9	7	7	10	12	14	12	9	5	3	3	7	7	10	8	3.4	14.4
21-Aug-05	11	10	7	6	3	8	4	4	6	5	6	6	8	6	5	3	3	10	11	10	11	15	17	16	6.6	17.2
22-Aug-05	9	11	8	6	8	5	5	7	10	17	18	16	15	14	15	15	13	6	9	7	8	7	7	5	9.6	18.4
23-Aug-05	3	3	3	2	1	2	3	4	7	7	6	8	9	6	10	12	12	6	7	7	9	7	5	4	1.7	11.6
24-Aug-05	2	1	2	3	3	2	2	3	4	4	4	5	6	7	8	6	4	7	9	7	7	6	6	5	2.8	8.5
25-Aug-05	3	3	4	4	3	2	3	2	3	4	3	4	6	6	7	7	4	4	4	3	3	4	5	3	1.3	7.2
26-Aug-05	3	3	4	4	4	4	3	3	3	5	15	22	19	14	12	13	15	22	18	16	8	4	4	3	6.6	21.9
27-Aug-05	3	4	4	4	3	4	3	3	4	3	3	3	2	4	6	3	6	6	6	8	11	12	8	6	2.7	11.5
28-Aug-05	7	6	4	2	4	7	6	15	21	19	11	13	14	13	12	9	6	6	7	9	12	5	5	3	5.4	21.4
29-Aug-05	8	12	14	12	11	12	12	12	12	11	10	9	8	7	8	5	4	5	4	5	5	4	4	4	5.8	13.9
30-Aug-05	4	5	5	3	3	4	3	3	5	3	8	12	22	19	18	22	22	19	18	16	11	9	4	7	8.1	22.3
31-Aug-05	7	9	11	6	9	5	5	8	10	21	24	23	24	28	28	26	19	21	18	10	13	12	5	7	13.8	28.1
1-hr Vector	1.8	1.8	2.1	2.4	2.2	2.3	2.2	2.9	3.9	5.3	6.1	6.6	7.4	6.2	6.6	6.9	6.2	5.3	4.6	4.0	2.5	2.6	1.8	1.8		
Hourly Max	10.9	19.0	27.9	24.6	22.1	18.7	19.6	18.4	21.4	22.1	23.7	26.3	24.3	28.1	27.5	26.9	22.5	26.5	25.6	21.9	17.1	15.2	17.2	17.1		

PASZA - Beaverlodge Wind Direction Monthly Summary

HOURLY AVERAGE TABLE

Wind Direction (WD)

Station: Beaverlodge
 Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	357.6	343.0	296.0	251.5	114.5	26.3	9.0	294 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

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	WD Sector
1-Aug-05	346	335	344	343	340	330	292	323	277	252	241	239	264	249	276	275	274	272	266	280	276	265	249	248	272	W
2-Aug-05	241	257	265	268	272	275	280	269	277	283	292	316	337	297	287	289	315	350	317	275	262	21	277	244	284	WNW
3-Aug-05	80	142	157	91	89	80	93	166	206	262	280	294	269	260	268	271	269	286	273	288	267	267	303	219	266	W
4-Aug-05	110	93	128	127	169	161	127	159	189	206	236	247	253	251	244	268	280	282	288	297	299	291	269	260	258	WSW
5-Aug-05	280	290	286	282	283	285	283	266	269	278	279	293	288	297	292	273	287	285	277	273	284	299	295	360	284	NNW
6-Aug-05	308	307	306	309	212	178	229	262	288	293	287	295	291	299	278	289	291	294	258	275	273	320	320	292	287	WNW
7-Aug-05	313	282	214	325	331	328	338	322	329	320	336	335	336	338	341	311	297	329	325	344	21	60	243	312	326	NW
8-Aug-05	8	30	301	316	307	322	337	318	329	321	314	329	318	303	312	310	340	351	3	349	358	18	313	28	332	NNW
9-Aug-05	337	342	341	349	355	9	25	45	44	65	57	65	71	37	82	96	246	263	247	269	263	37	26	352	10	N
10-Aug-05	360	11	348	340	9	299	10	331	322	302	313	328	292	344	288	309	331	318	334	334	331	306	296	304	328	NNW
11-Aug-05	294	244	25	250	286	342	319	321	332	329	327	320	314	319	326	339	329	330	360	13	22	342	341	345	331	NNW
12-Aug-05	23	26	29	71	113	80	88	103	161	174	185	279	278	254	318	296	301	332	310	269	159	75	62	71	11	NNE
13-Aug-05	79	137	130	99	185	127	112	141	172	178	211	359	61	69	67	75	73	69	77	201	160	55	76	125	82	E
14-Aug-05	96	202	340	18	44	358	348	20	22	45	42	43	43	53	41	38	25	15	14	30	47	54	70	74	41	NE
15-Aug-05	92	105	117	109	102	149	148	101	112	122	128	134	127	122	129	141	112	130	141	126	108	85	87	76	119	ESE
16-Aug-05	85	94	91	88	39	38	53	42	48	64	90	56	49	38	47	42	45	51	48	32	332	330	322	17	49	NE
17-Aug-05	19	6	28	18	16	3	357	322	306	302	311	312	323	335	349	339	346	354	3	14	49	74	287	4	350	N
18-Aug-05	33	360	26	254	346	106	153	222	158	185	172	170	198	167	212	126	140	144	144	135	116	107	118	104	142	SE
19-Aug-05	101	115	245	261	311	56	83	159	172	212	222	244	254	266	224	244	242	210	210	118	63	59	94	75	214	SW
20-Aug-05	65	65	234	23	329	356	319	46	153	197	168	181	235	257	266	271	281	299	286	78	277	337	306	333	287	WNW
21-Aug-05	335	320	297	279	185	319	275	259	300	269	238	229	223	208	211	230	233	269	224	251	248	255	255	252	260	W
22-Aug-05	252	255	246	268	267	261	212	248	270	277	272	281	288	272	282	283	283	297	281	281	311	305	257	254	274	W
23-Aug-05	117	129	188	342	297	333	304	350	324	341	334	331	329	196	185	207	107	107	276	316	318	319	36	29	317	NW
24-Aug-05	198	229	61	339	323	134	215	97	211	210	215	228	219	192	214	187	212	157	145	119	102	116	103	116	168	SSE
25-Aug-05	130	110	95	112	148	100	108	134	195	216	220	206	243	264	297	287	274	261	199	159	109	41	292	152	212	SSW
26-Aug-05	141	175	96	72	83	82	104	107	161	216	280	281	279	262	244	241	253	278	264	267	258	235	246	281	261	W
27-Aug-05	93	125	102	126	98	84	77	44	43	232	290	182	280	59	223	269	47	16	28	33	37	43	20	350	45	NE
28-Aug-05	11	319	58	129	59	336	350	306	279	285	270	252	262	289	313	321	17	52	32	304	72	264	112	350	309	NW
29-Aug-05	28	360	4	356	350	347	347	345	343	345	340	341	325	324	315	329	279	240	224	191	157	101	97	104	346	NNW
30-Aug-05	138	131	138	155	122	166	142	171	216	184	210	259	270	273	261	274	265	264	269	263	260	263	235	238	254	WSW
31-Aug-05	230	237	257	238	248	217	189	242	240	261	274	269	270	258	272	266	278	271	276	280	286	280	260	244	264	W
Hourly Avg	8	324	321	328	319	335	323	305	287	277	276	281	284	282	284	283	294	292	281	289	309	333	302	316		

PASZA - Beaverlodge Standard Deviation of Wind Direction Monthly Summary

HOURLY AVERAGE TABLE

Wind Direction (WD)

Station: Beaverlodge
 Station Owner: PASZA

Monitoring Dates: August 1, 2005 to September 1, 2005

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	30.9	23.0	15.0	10.0	8.0	5.0	3.0

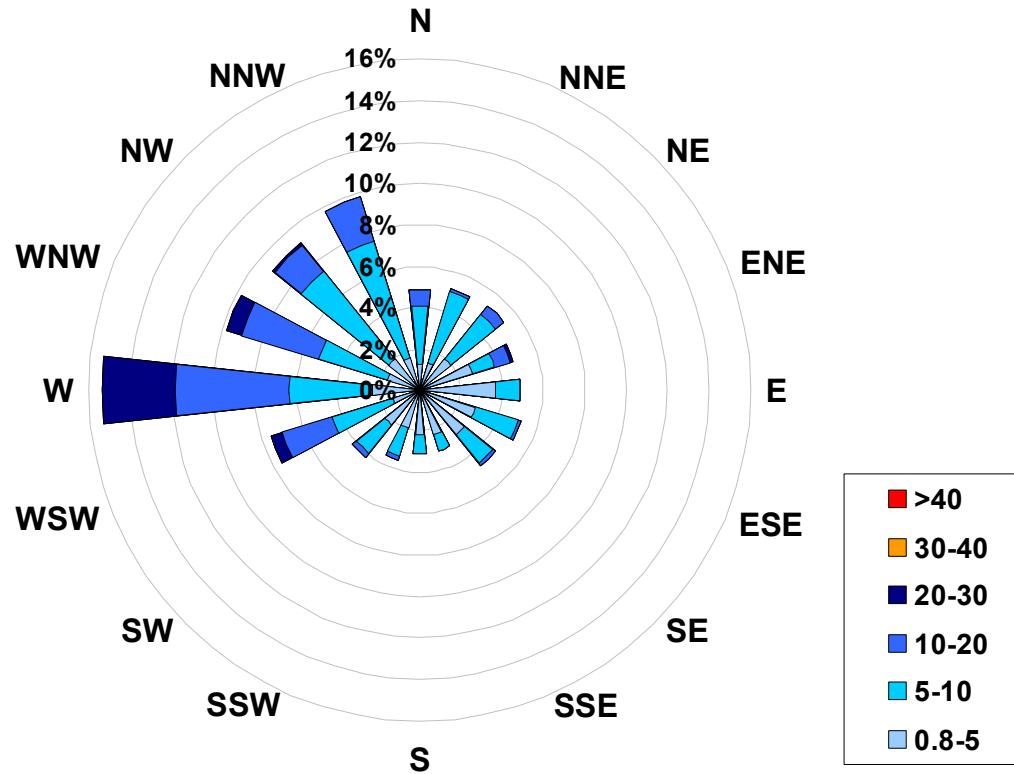
Status Flag Characters	
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day Mountain Standard Time

Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Daily Maximum
1-Aug-05	7	9	14	17	14	10	9	20	10	9	8	9	10	9	10	10	10	9	9	9	9	7	7	6	20.0
2-Aug-05	7	9	9	9	9	9	9	9	10	10	10	12	18	10	10	10	16	17	13	9	19	7	6	10	19.0
3-Aug-05	34	23	13	16	17	11	9	10	12	13	10	13	12	15	14	17	11	11	8	5	6	10	8	23	34.0
4-Aug-05	13	7	9	8	13	6	8	17	15	14	10	10	8	9	9	11	11	9	9	8	5	7	13	9	17.0
5-Aug-05	7	9	9	8	7	7	8	9	9	9	9	10	9	10	10	9	9	9	9	7	6	10	5	17	17.0
6-Aug-05	10	7	5	5	5	12	4	8	9	9	10	10	10	10	10	9	9	10	10	9	8	15	15	3	15.0
7-Aug-05	8	5	10	15	8	7	14	10	13	11	17	20	20	20	19	15	7	9	10	13	12	8	7	13	20.0
8-Aug-05	18	9	9	10	3	10	13	10	12	12	12	19	16	13	15	19	19	18	16	13	11	13	10	5	19.0
9-Aug-05	10	14	16	19	20	20	15	11	11	8	10	14	12	13	12	9	10	7	7	6	1	4	3	8	20.0
10-Aug-05	12	16	14	7	19	23	17	11	10	17	27	22	21	25	23	12	14	18	16	13	8	4	3	5	27.0
11-Aug-05	3	7	7	4	9	15	10	11	14	14	13	13	11	11	14	19	15	15	22	20	15	12	8	13	22.0
12-Aug-05	14	12	10	9	10	5	6	10	10	18	22	31	26	28	30	22	18	17	13	5	8	4	3	4	31.0
13-Aug-05	9	8	9	10	15	6	6	14	14	24	22	21	10	9	8	7	8	17	12	6	4	5	7	11	24.0
14-Aug-05	9	13	6	11	7	9	10	11	15	9	8	9	10	8	11	12	13	14	15	12	10	7	7	8	15.0
15-Aug-05	9	9	9	8	8	6	6	6	9	9	9	9	10	10	12	9	8	9	9	8	8	4	5	6	12.0
16-Aug-05	5	6	6	7	8	8	7	9	8	9	15	23	23	13	10	10	11	10	9	5	4	2	2	11	23.0
17-Aug-05	9	13	13	12	15	17	19	10	13	16	22	19	19	19	19	17	21	18	17	13	10	7	11	11	22.0
18-Aug-05	15	17	8	3	8	5	11	16	15	16	15	16	25	25	26	20	16	12	8	9	9	16	23	12	26.0
19-Aug-05	9	10	5	7	3	6	6	11	16	18	19	18	11	22	21	59	30	21	7	33	32	13	10	15	58.8
20-Aug-05	31	30	51	17	23	15	26	14	19	9	26	29	21	11	10	7	8	25	31	11	8	7	8	14	51.4
21-Aug-05	16	11	8	7	18	16	6	5	10	7	9	10	8	14	16	11	13	8	8	7	7	7	7	8	18.0
22-Aug-05	10	8	23	10	8	11	9	11	9	9	9	9	10	10	10	10	8	8	8	6	8	5	4	4	23.0
23-Aug-05	8	10	15	15	8	10	4	19	15	19	22	20	24	14	8	8	10	9	10	3	5	5	8	8	24.0
24-Aug-05	8	15	5	11	13	12	11	18	14	17	16	22	20	20	15	20	21	11	7	7	7	8	9	7	22.0
25-Aug-05	17	16	8	10	10	14	11	15	16	15	28	23	24	18	16	16	19	15	4	4	6	12	6	9	28.0
26-Aug-05	9	9	5	7	8	6	10	8	12	11	9	9	9	8	9	9	10	8	8	7	4	6	22	18	22.0
27-Aug-05	7	13	8	6	11	5	4	11	14	23	29	33	25	24	22	14	8	9	9	8	8	8	10	8	33.0
28-Aug-05	7	6	4	6	5	18	10	10	9	9	8	9	8	10	10	18	17	9	9	9	16	12	9	10	18.0
29-Aug-05	10	21	23	23	21	21	20	18	18	19	17	16	12	12	11	14	17	15	15	4	5	10	9	8	23.0
30-Aug-05	6	7	5	6	8	8	14	22	10	15	10	10	8	9	9	9	8	8	8	7	6	5	17	8	22.0
31-Aug-05	10	12	8	12	7	7	28	12	9	8	9	9	8	9	8	8	9	9	8	8	7	5	10	4	28.0

Hourly Max	34	30	51	23	23	23	28	22	19	24	29	33	26	28	30	59	30	25	31	33	32	16	23	23
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1-hr Average Wind Rose (in km/hr) Located at the Beaverlodge Site for August 2005



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range		Frequency (hrs)	
0.8	< 5	243	
5	to 10	316	
10	to 20	140	
20	to 30	38	
30	to 40	0	
	> 40	0	
Total Non-Zero Values			744

PEACE AIRSHED ZONE ASSOCIATION

PASZA Monthly Passive Data Summary

Table 1. PASZA Passive Stations for August 2005

PASZA					
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
Duplicates					
45a	Gift Lake	0.1	18.7	0.7	
45b	Gift Lake	0.1	18.0	0.8	
46a	Little Smoky	0.2	16.7	1.4	
46b	Little Smoky	0.1	16.1	1.3	
47a	Kinuso	0.1	15.7	0.6	
47b	Kinuso	0.1	17.5	0.6	
48a	Deer Mountain	0.1	15.6	0.4	
48b	Deer Mountain	0.1	15.2	0.5	
49a	Grande Prairie HP	0.2	21.6	5.7	
49b	Grande Prairie HP	0.3	21.2	5.4	
1	Silver Valley	0.3	19.0	1.2	08-27-081-11 W6M
2	Bay Tree	0.1	17.3	0.6	13-16-078-13 W6M
3	Forth Creek	0.2	24.8	0.8	04-13-082-07 W6M
4	Gordondale	0.2	22.0	1.3	04-34-078-10 W6M
5	Boone Creek	0.1	15.5	0.7	01-23-076-11 W6M
7	Steeprock Creek	0.1	19.7	0.5	09-35-072-13 W6M
9	Spirit River	0.2	23.6	1.2	08-12-079-07 W6M
10	Woking	0.2	19.3	1.0	01-13-076-07 W6M
11	Webber Creek	0.2	19.2	1.2	09-36-074-09 W6M
12	Hythe	0.2	16.0	1.0	14-36-072-11 W6M
14	Sylvester	0.1	14.7	0.4	08-06-069-12 W6M
16	Beaverlodge	0.1	25.1	2.1	15-36-071-10 W6M
17	Poplar	0.2	18.4	0.8	13-06-073-08 W6M
18	Saddle Hills	0.3	19.4	0.8	04-25-074-07 W6M

Table 1. PASZA Passive Stations for August 2005 (Continued)

PASZA					
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
19	Wanham	0.3	24.9	0.6	16-22-077-03 W6M
20	Shaftesbury	0.1	18.6	0.4	04-03-082-23 W5M
21	Eaglesham	0.2	17.7	0.5	16-21-079-25 W5M
23	Bear Lake	vandalized	vandalized	vandalized	15-31-072-06 W6M
24	Wembley	0.1	15.0	1.2	12-31-070-08 W6M
25	Pinto Creek	0.1	16.7	0.9	04-24-069-11 W6M
26	Flyingshot	0.2	15.7	1.2	15-36-070-07 W6M
27	Grande Prairie I	0.3	18.6	4.1	08-15-071-06 W6M
28	Clairmont Lake	0.3	21.7	1.4	09-06-073-04 W6M
29	Smoky Heights	0.3	25.6	1.0	04-06-075-02 W6M
30	Fitzsimmons	0.2	18.5	1.1	15-36-072-03 W6M
32	Gold Creek	0.3	12.6	0.9	06-33-067-05 W6M
33	Wapiti	0.2	17.4	1.0	02-25-071-03 W6M
34	Puskwaskau	0.1	15.0	0.4	15-35-074-25 W5M
35	Jean Cote	0.5	17.2	0.8	12-35-079-21 W5M
36	Guy	0.1	18.4	0.6	03-04-076-22 W5M
37	Crooked Creek	0.1	17.8	0.9	16-01-071-26 W5M
38	Karr Creek	0.1	16.1	0.4	10-16-065-02 W6M
39	Clouston Creek	0.1	18.4	Damaged	12-01-073-22 W5M
40	McLennan	0.2	23.9	0.8	03-29-077-19 W5M
41	Valleyview	0.1	21.5	0.8	09-30-069-22 W5M
42	Sunset House	0.2	23.7	0.6	05-32-070-19 W5M
43	High Prairie	0.1	18.4	0.8	16-13-074-17 W5M
44	Peavine	0.1	18.0	0.4	03-05-079-15 W5M
45	Gift Lake	0.1	18.3	0.7	10-07-079-12 W5M
46	Little Smoky	0.2	16.4	1.3	12-01-065-21 W5M
47	Kinuso	0.1	16.6	0.6	12-10-073-10 W5M
48	Deer Mountain	0.1	15.4	0.4	15-22-068-09 W5M
49	Grande Prairie HP	0.3	21.4	5.5	17-26-071-06 W6M

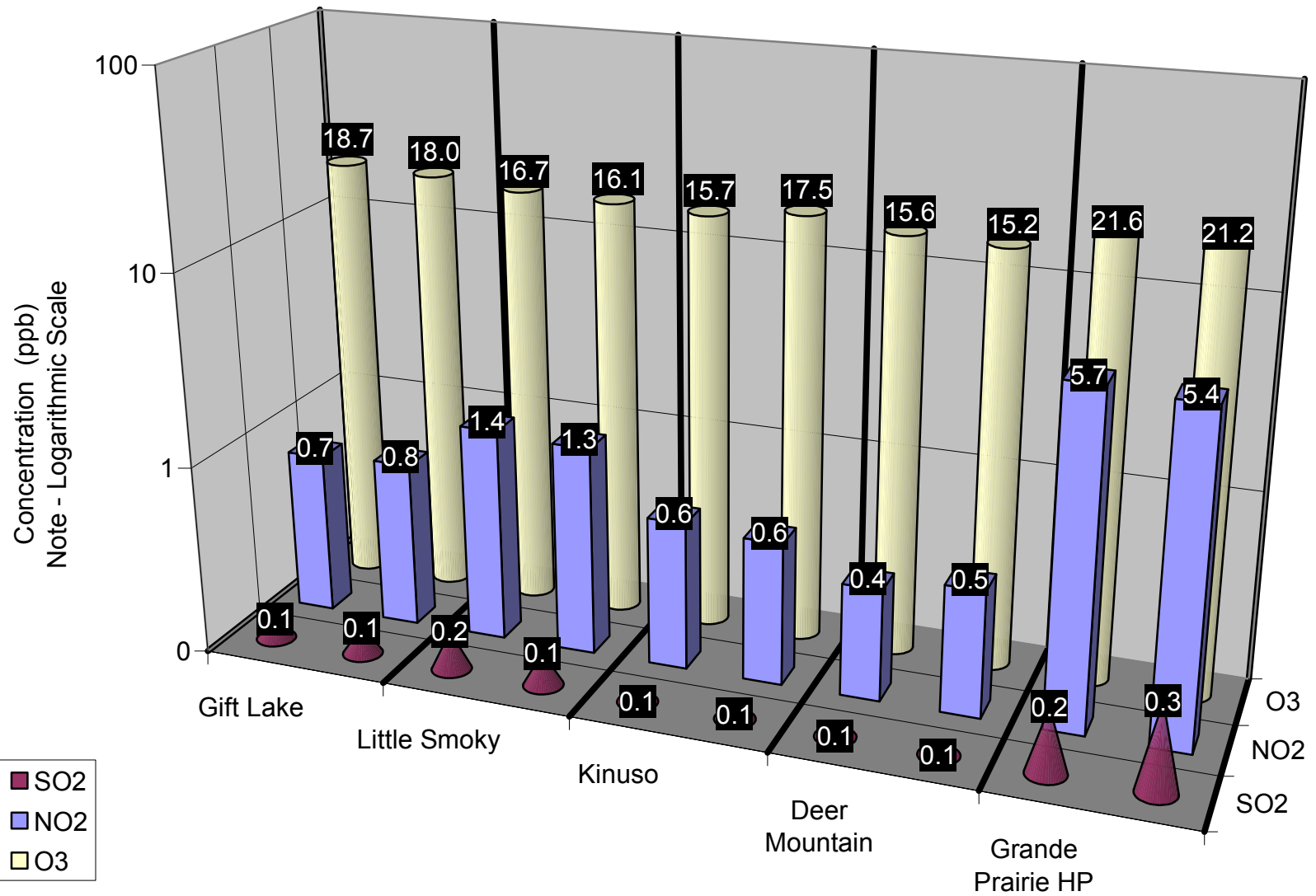


Figure 46. Duplicate Summary Chart

Table 2. Passive Summary Results for August 2005

Stats	Sulphur Dioxide	Ozone	Nitrogen Dioxide
	SO ₂	O ₃	NO ₂
	ppb	ppb	ppb
Passive Summary for Aug 2005 (PASZA Zone)			
Mean	0.2	18.9	1.0
Standard Deviation	0.1	3.2	0.9
Minimum	0.1	12.6	0.4
	Sylvester (#14)	Gold Creek (#32)	Sylvester (#14)
Maximum	0.5	25.6	5.5
	Jean Cote (#35)	Smoky Heights (#29)	Grande Prairie HP (#49)
Comparison between Continuous and Passive monitoring at Beaverlodge (passive #16 Beaverlodge)			
	SO ₂	O ₃	NO ₂
AENV Beaverlodge station	0.2	22.0	2.7
PASZA Beaverlodge passive	0.1	25.1	2.1
Comparison between Continuous and Passive monitoring at Henry Pirker (passive #49 Grande Prairie HP)			
	SO ₂	O ₃	NO ₂
PASZA Henry Pirker station	0.3	17.4	6.2
PASZA Grande Prairie passive	0.3	21.4	5.5

PASZA Passive SO₂ Stations - Aug 2005
Average Concentrations in ppb

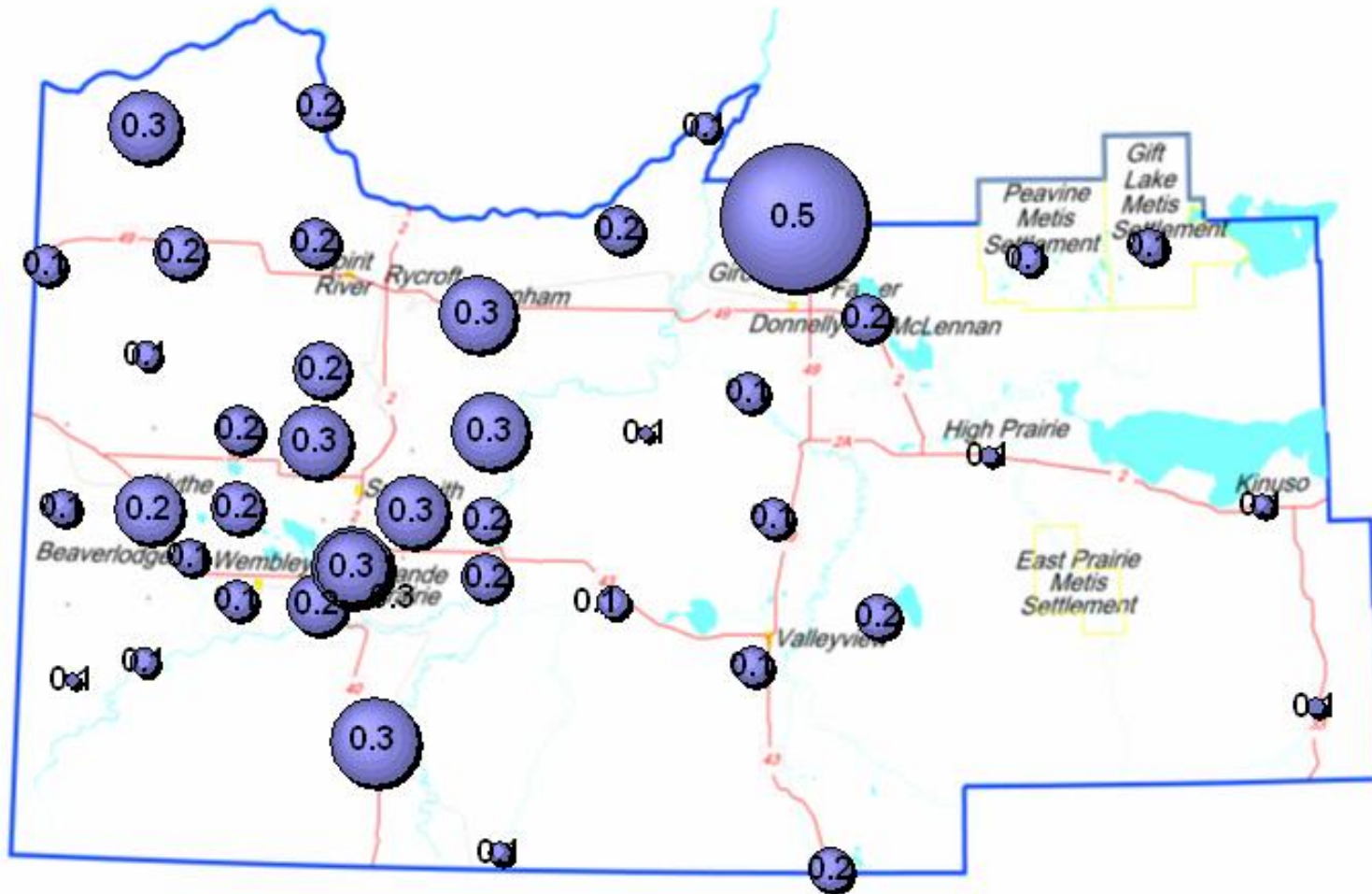


Figure 47. SO₂ Bubble Chart

Alberta Ambient Air Quality Guidelines - Annual SO₂ Guideline is 11 ppb

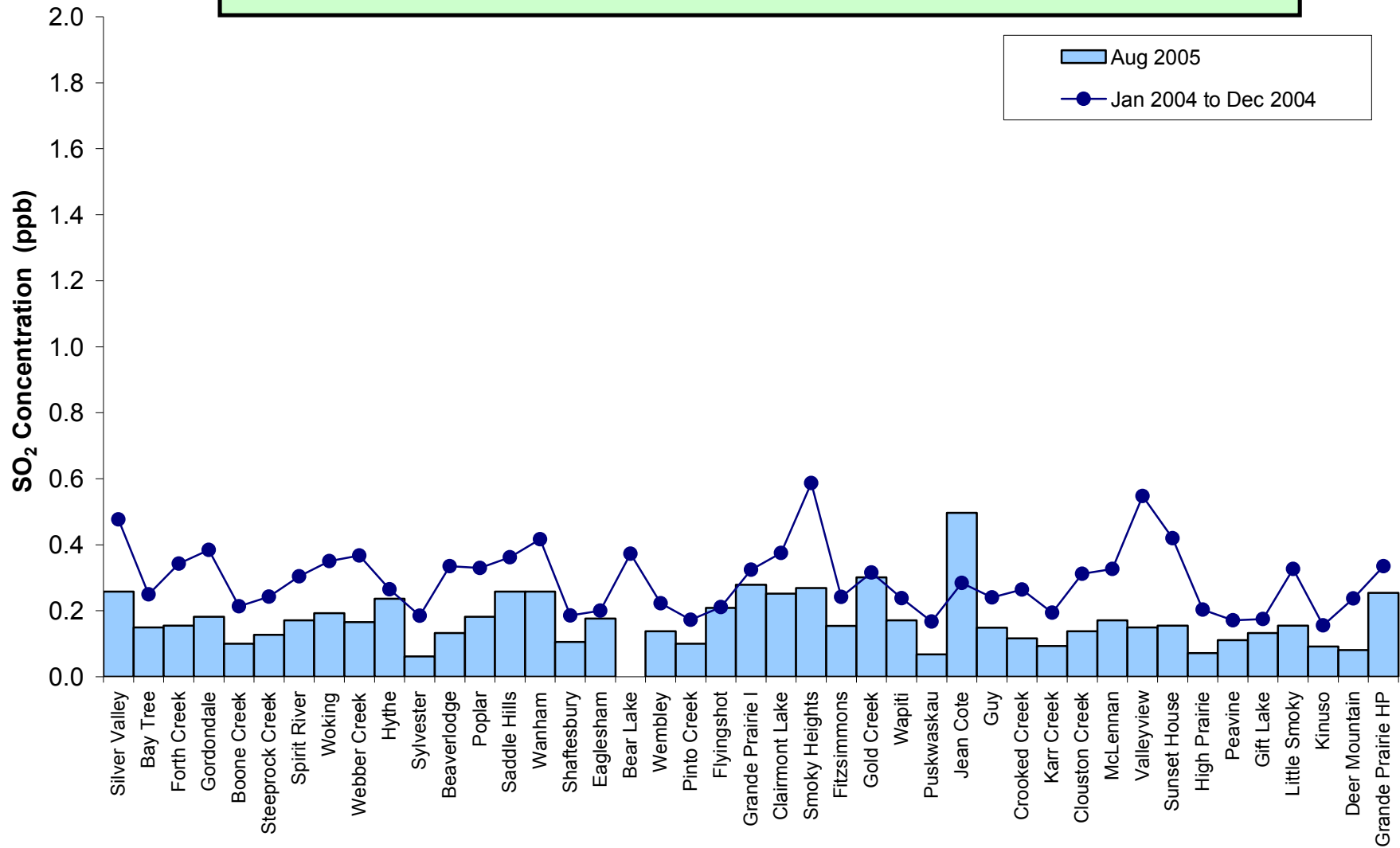


Figure 48. SO₂ Summary Chart

PASZA Passive O₃ Stations - Aug 2005
Average Concentrations in ppb

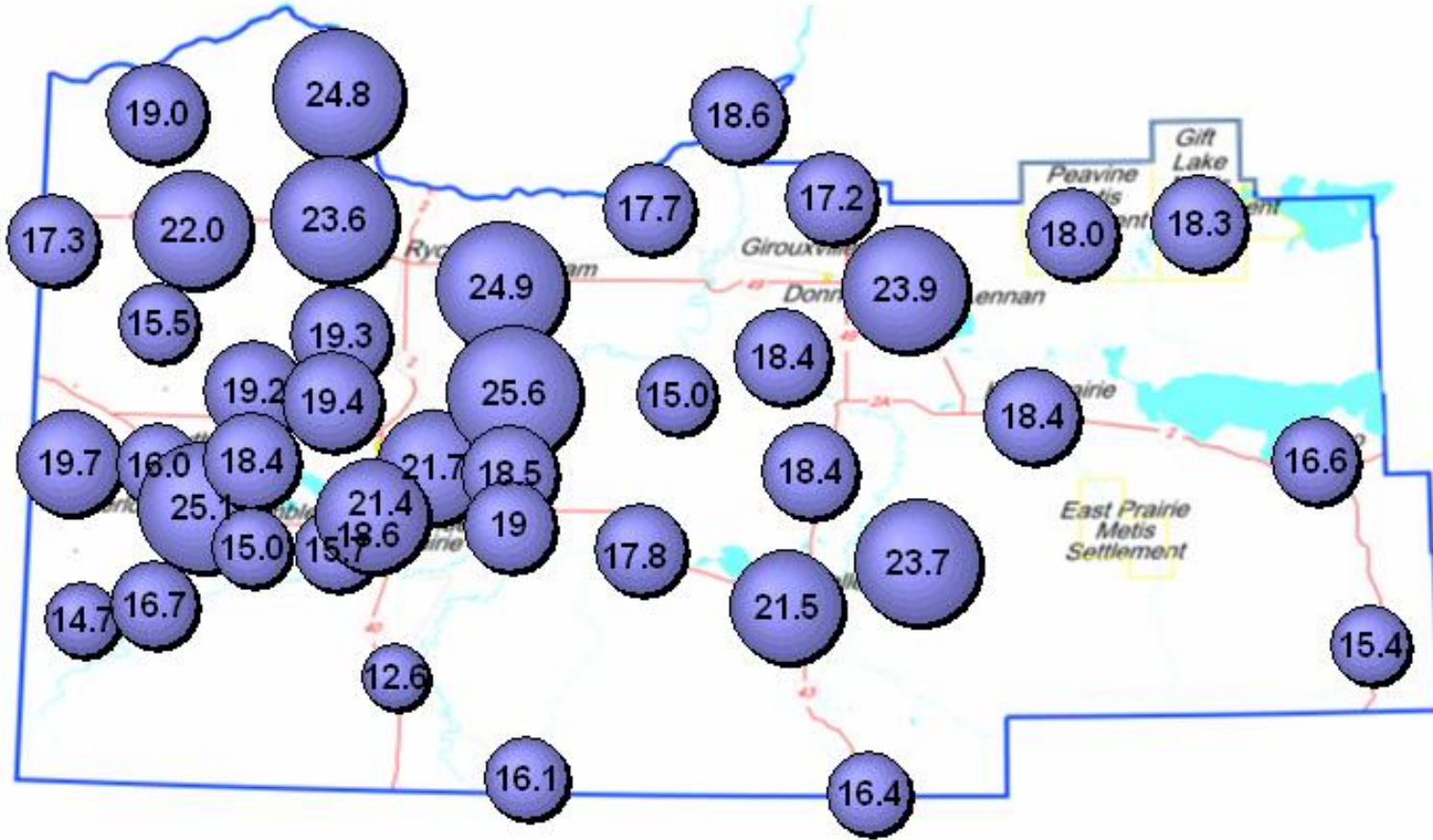


Figure 49. O₃ Bubble Chart

Alberta Ambient Air Quality Guidelines - No Annual O₃ Guideline

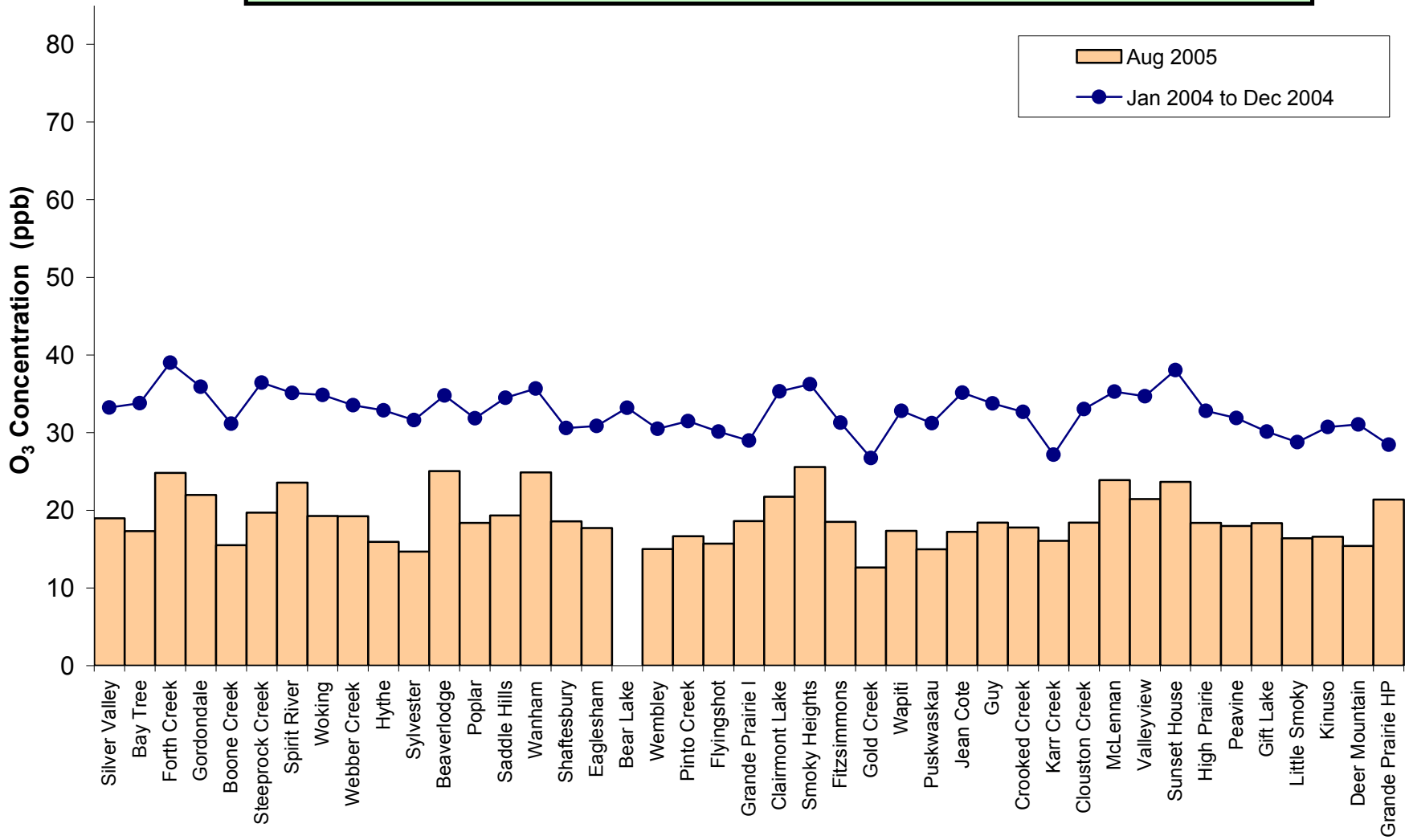


Figure 50. O₃ Summary Chart

Alberta Ambient Air Quality Guidelines - Annual NO₂ Guideline is 32 ppb

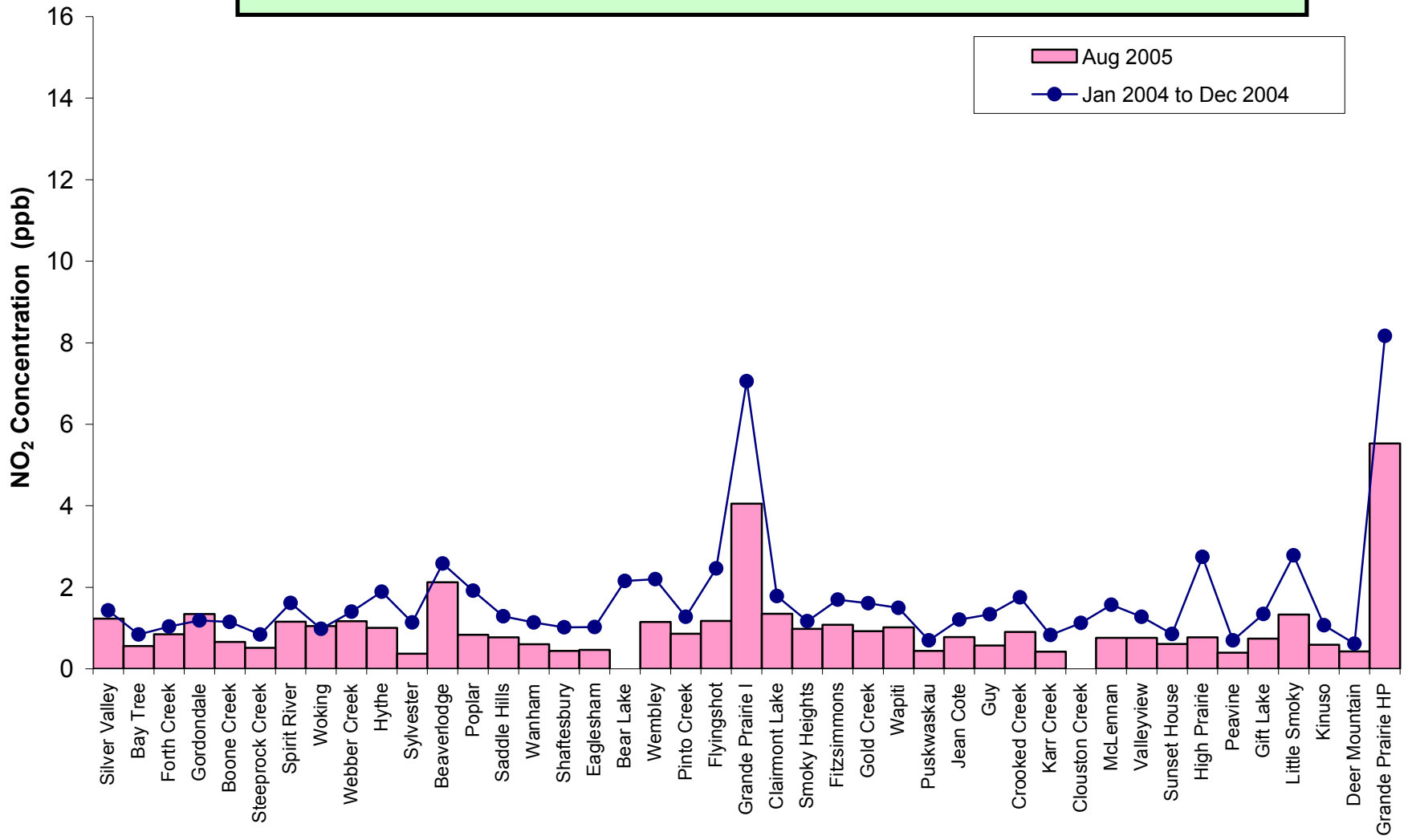


Figure 52. NO₂ Summary Chart

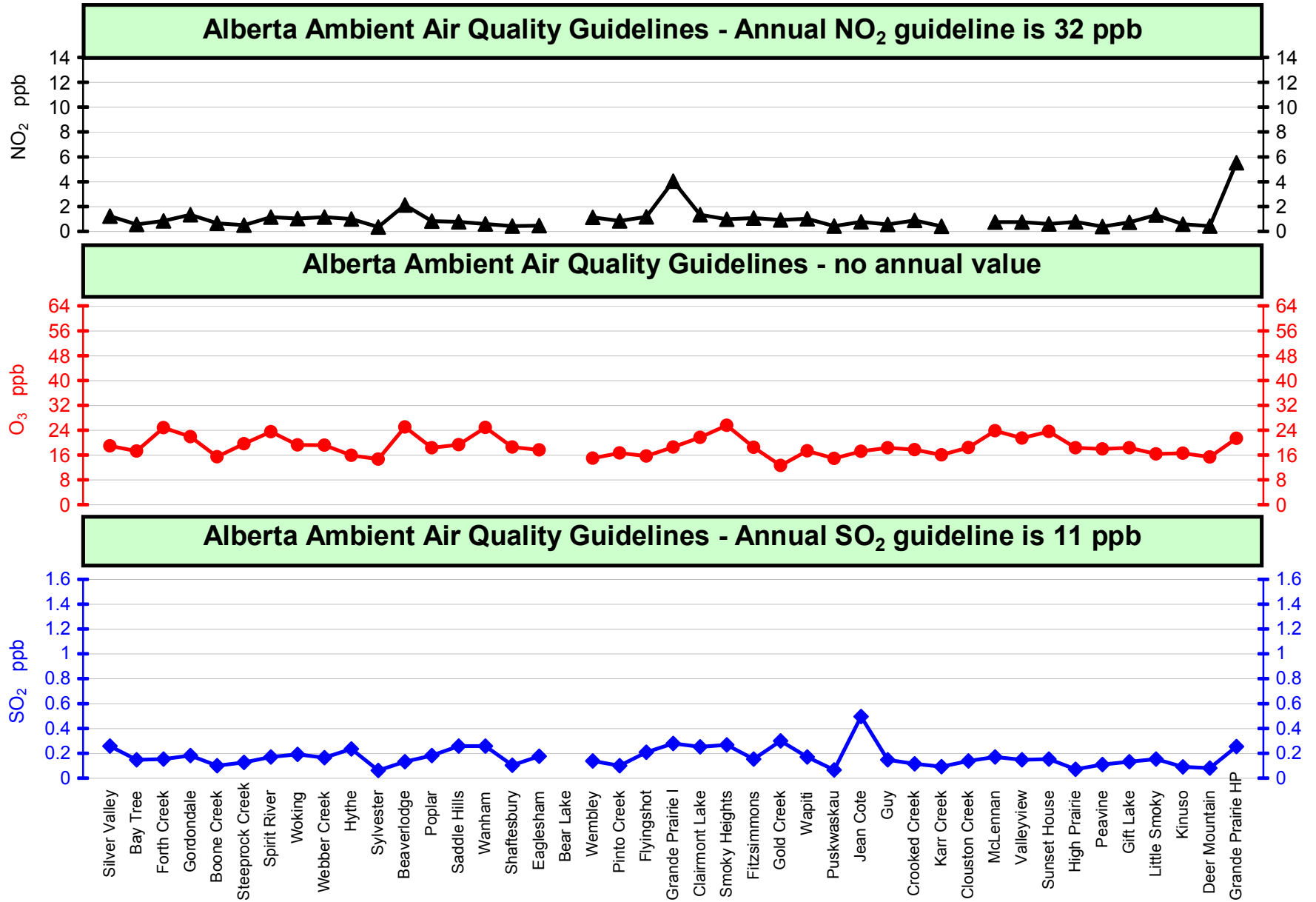


Figure 53. Overview Summary

August 2005 Calibration Reports

PASZA - Henry Pirker Station with the following calibrations:

SO₂, NO, NO₂, NO_x, O₃, CO, THC, TRS, PM_{2.5}

PASZA – Evergreen Park Station with the following calibrations:

SO₂, TRS, PM_{2.5}

PASZA – Smoky Heights Station with the following calibrations:

SO₂, TRS, PM_{2.5}

PASZA – Beaverlodge Station with the following calibrations:

SO₂, NO, NO₂, NO_x, O₃, PM_{2.5}

Calibration Report

Parameter SO₂
 Air Monitoring Network PASZA



Station Information

Calibration Date	August 15, 2005	Previous Calibration	July 14, 2005
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:12	End Time (MST)	20:00
Barometric Pressure	27.9 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	2,097 ng/min	Perm-tube Expiry Date	
Correction factor	0.949759	Perm-tube Cert #	19-9955
DACS make	Focus AP1000	DACS serial No.	45266
DACS voltage range	0 - 10 volt	DACS channel #	4
	<u>Before</u>		<u>After</u>
Calculated slope	0.998044	Calculated slope	0.991079
Calculated intercept	-0.237900	Calculated intercept	0.087672
Analyzer make	TEI Model 43A	Analyzer serial #	43A-21120-195

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
SO2 zero pot	187		187	
SO2 span pot	163		298	
UV Lamp voltage	935	V	933	V
Vacuum	19	" Hg	18.5	" Hg
Sample Flow	420	ccm	425	ccm

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	2322.2	0.0	-1.9	N/A
2445	2322.2	344.7	347.3	0.9926
4970	4720.3	169.6	170.2	0.9963
9530	9051.2	88.4	92.2	0.9590
zero	2293.7	0.0	-1.9	As Found Zero
2415	2293.7	349.0	342.9	As Found Span
Average Correction Factor				0.9826

Calculated value of As Found Response: 343.905 ppm Percent Change of As Found: 1.5%

	before calibration		after calibration	
Auto zero	-2.5	ppm	-2.0	ppm
Auto span	302.8	ppm	321.9	ppm

Notes: _____

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter SO2
 Air Monitoring Network PASZA

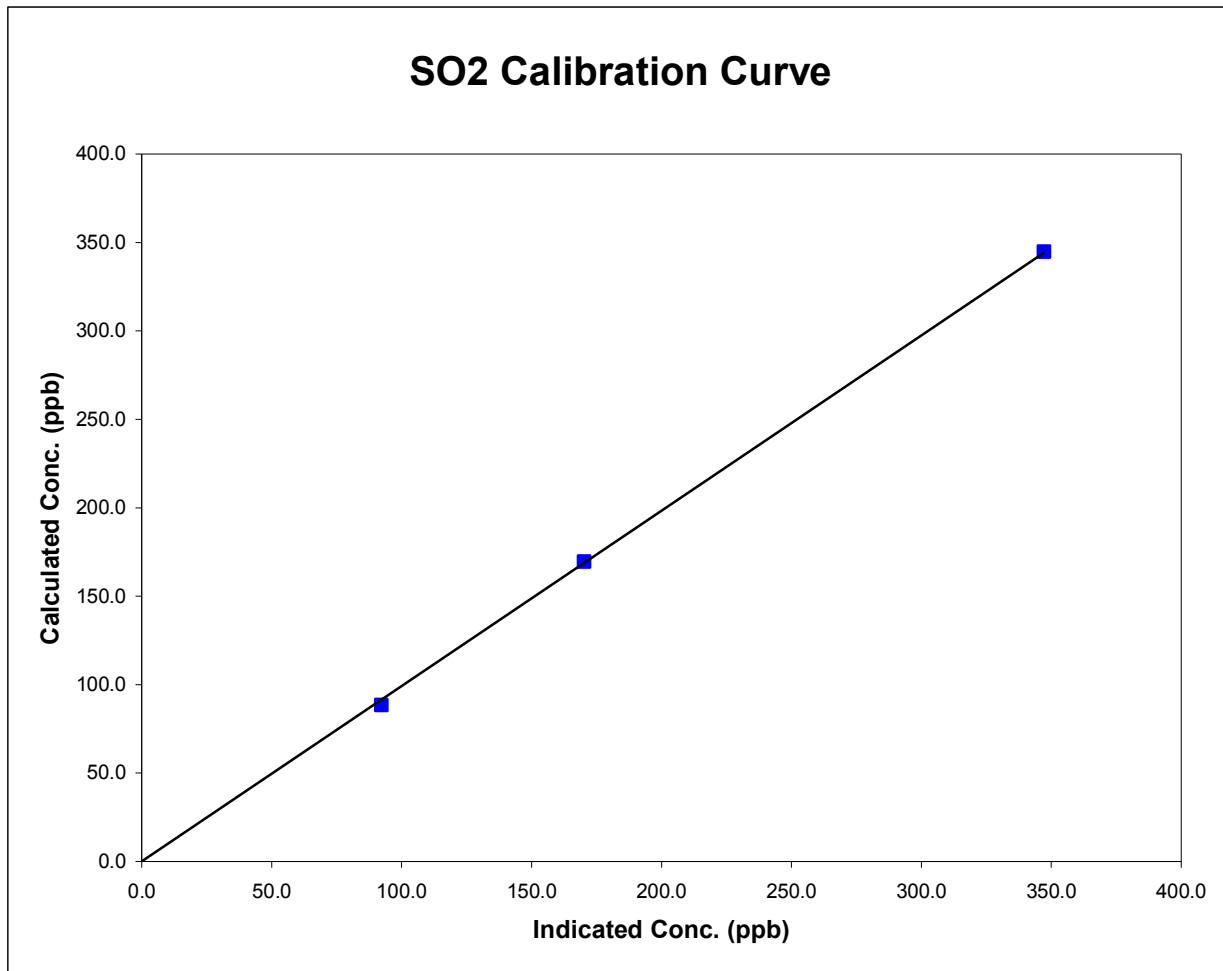


Station Information

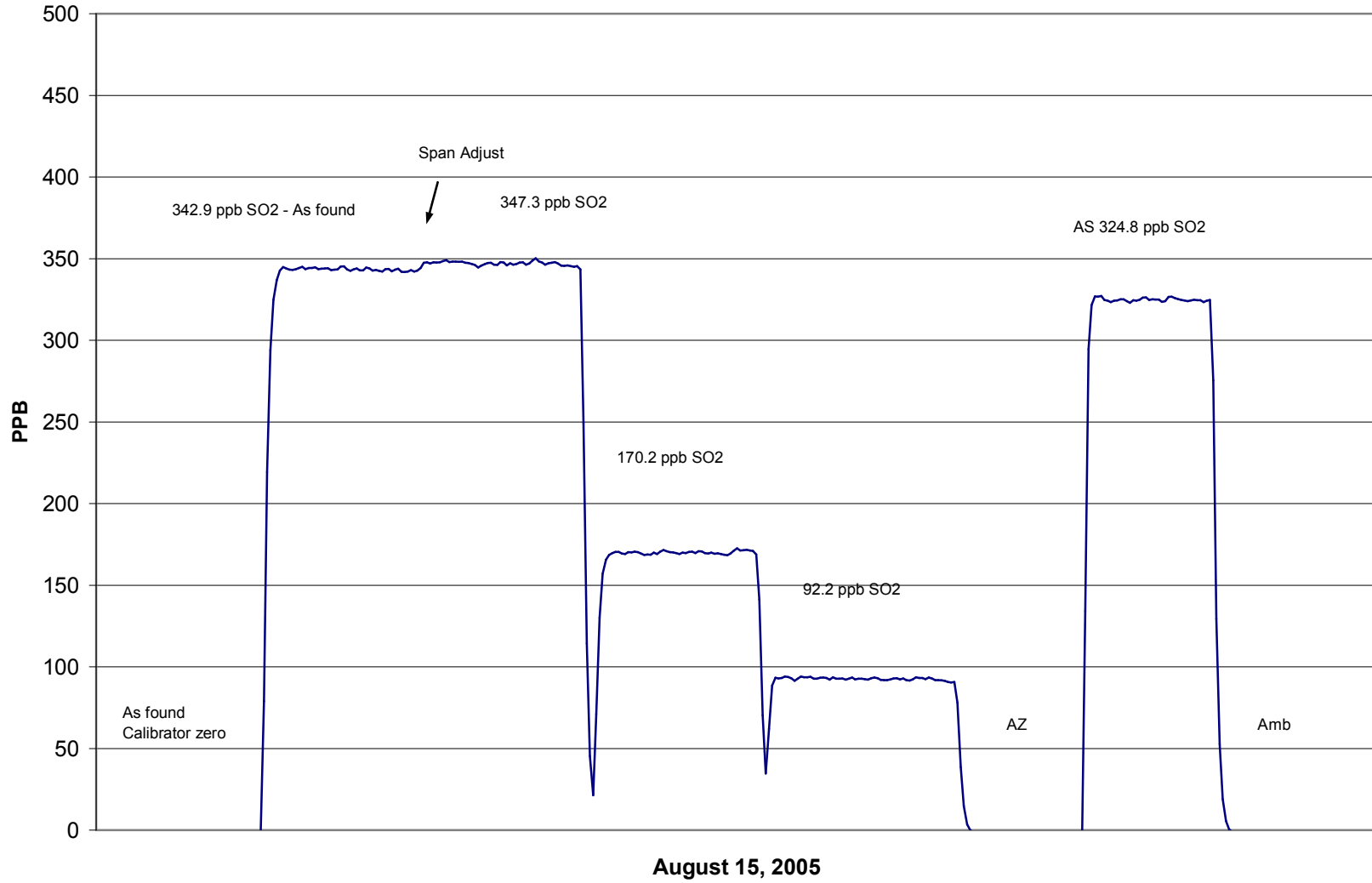
Calibration Date	August 15, 2005	Previous Calibration	July 14, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	9:12	End Time (MST)	20:00
Analyzer make/model	TEI Model 43A	Analyzer serial #	43A-21120-195

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-1.9	N/A		
344.7	347.3	0.9926	Correlation Coefficient	0.999792
169.6	170.2	0.9963		
88.4	92.2	0.9590	Slope	0.991079
			Intercept	0.087672



SO2 Calibration



Calibration Report

Parameter **NOx-NO-NO₂**
 Air Monitoring Network **PASZA**

**Station Information**

Calibration Date	<u>August 17, 2005</u>	Previous Calibration	<u>July 14, 2005</u>
Station Number	<u>1</u>	Station Location	<u>Muskoseepi Park</u>

Reason: Routine Installation Removal Other: Install Span/zero Board and Ribbon Cable

Start Time (MST)	<u>9:16</u>	End Time (MST)	<u>18:34</u>
Barometric Pressure	<u>0.929</u> <u>Atm</u>	Station Temperature	<u>20.0</u> <u>Deg C</u>
Calibrator	<u>EnviroNics 6100</u>	Serial Number	<u>3016</u>
NO Cal Gas Conc	<u>50.3</u> <u>ppm</u>	Cal Gas Expiry Date	<u>22-Nov-06</u>
NOx Cal Gas Conc	<u>50.5</u> <u>ppm</u>	Cal Gas Serial #	<u>BAL786</u>

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	Data Slope	1.024118	1.003082	0.999353
	Data Offset	-1.724540	-1.104197	-2.411468
After	Data Slope	0.986120	0.999628	0.990704
	Data Offset	-0.207216	0.077330	4.530133
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model Teco 42C Analyzer serial # 508011073

Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO background	7.8	ppb	7.0	mV
NOx background	8.2	ppb	6.7	mV
NO coefficient	0.939		1.005	
NOx coefficient	1.002		0.888	
Chamber Temp	49.6	Deg C	49.6	Deg C
Cooler Temp	-2.4	Deg C	-2.5	Deg C
Converter Temp	318.0	Deg C	318.0	Deg C
Vacuum	199.2	mm Hg	195.6	mm Hg

Notes: _____

Calibration Report

Parameter **NO_x-NO-NO₂**
Air Monitoring Network **PASZA**



Station Information

Calibration Date: August 17, 2005 Station Location: Muskoseepi Park

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	4993	0.00	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A
1	4993	39.97	401.1	399.5	1.6	401.4	401.0	0.5	0.9992	0.9962
2	4993	19.98	201.3	200.5	0.8	200.6	194.9	5.9	1.0033	1.0287
3	4993	9.99	100.8	100.4	0.4	101.2	92.8	8.4	0.9967	1.0822
AFZ	4993	0.00	0.0	0.0	0.0	-1.4	-1.5	0.0	0.0000	0.0000
AFS	4993	39.97	401.1	399.5	1.6	401.4	357.8	43.9	0.9991	1.1165
Average Correction Factor									0.9997	1.0357

As Found Concentrations: NO_x= 401.7 NO= 356.9 As Found Percent Change NO_x= 0.2% NO= -10.7%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

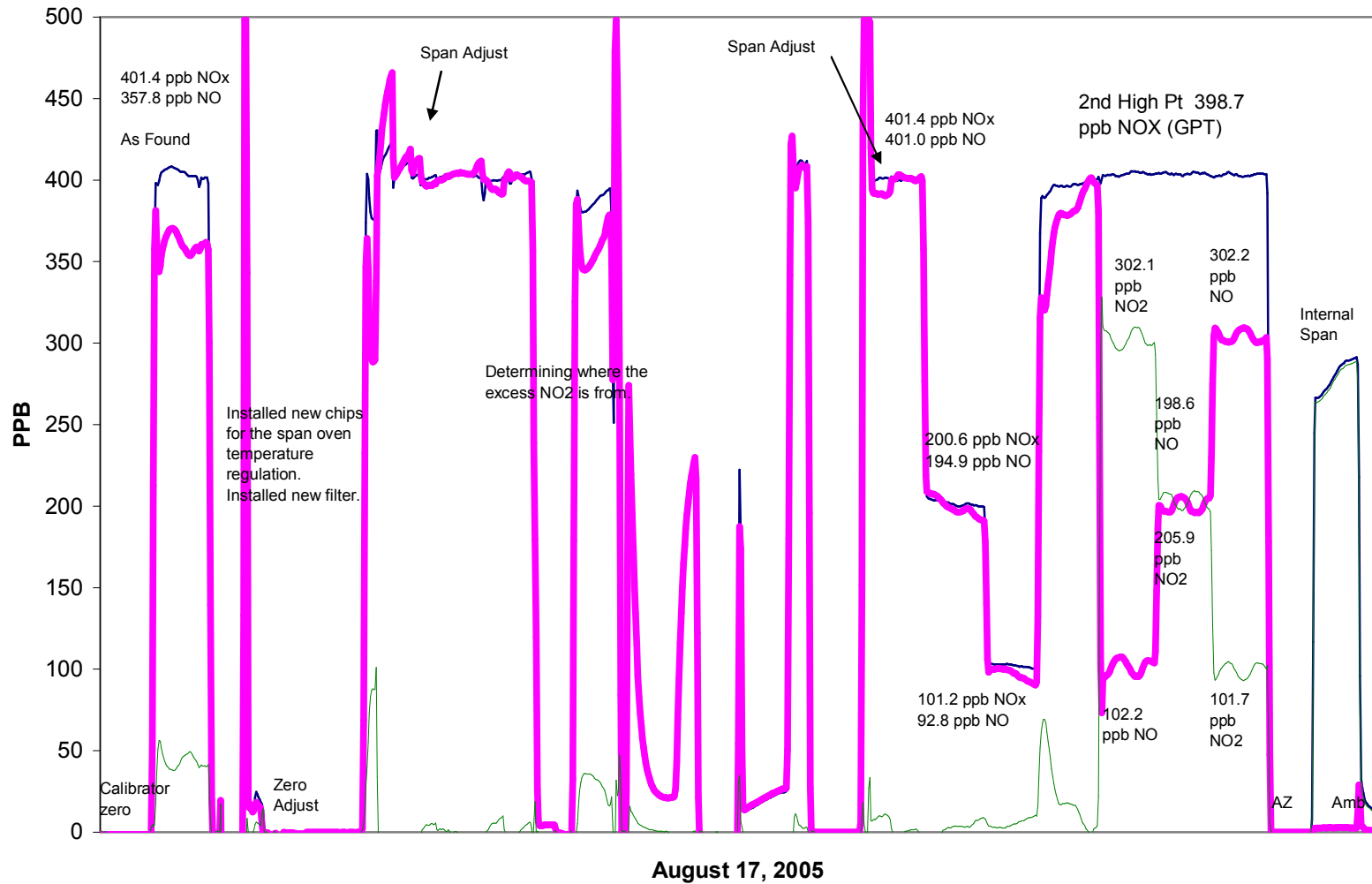
O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	403.8	394.4	9.5	398.6	393.5	5.1	1.0132	1.0022	N/A	N/A
300	403.8	105.8	298.0	404.0	102.2	302.2	0.9995	1.0350	0.9864	101.4%
200	403.8	201.3	202.6	404.2	198.6	206.0	0.9991	1.0135	0.9834	101.7%
100	403.8	303.9	100.0	403.5	302.2	101.7	1.0008	1.0057	0.9828	101.7%
Average Correction Factor							0.9998	1.0181	0.9842	101.6%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO	ppb	NO _x	NO ₂	NO	ppb
Auto zero	0.1	0.2	0.1	ppb	1.0	0.9	1.0	ppb
Auto span	307.5	312.9	-1.9	ppb	289.1	282.4	7.2	ppb

Calibration Performed By: Dawn Ewan

NOx Calibration



Calibration Summary

Parameter NO₂
 Air Monitoring Network PASZA

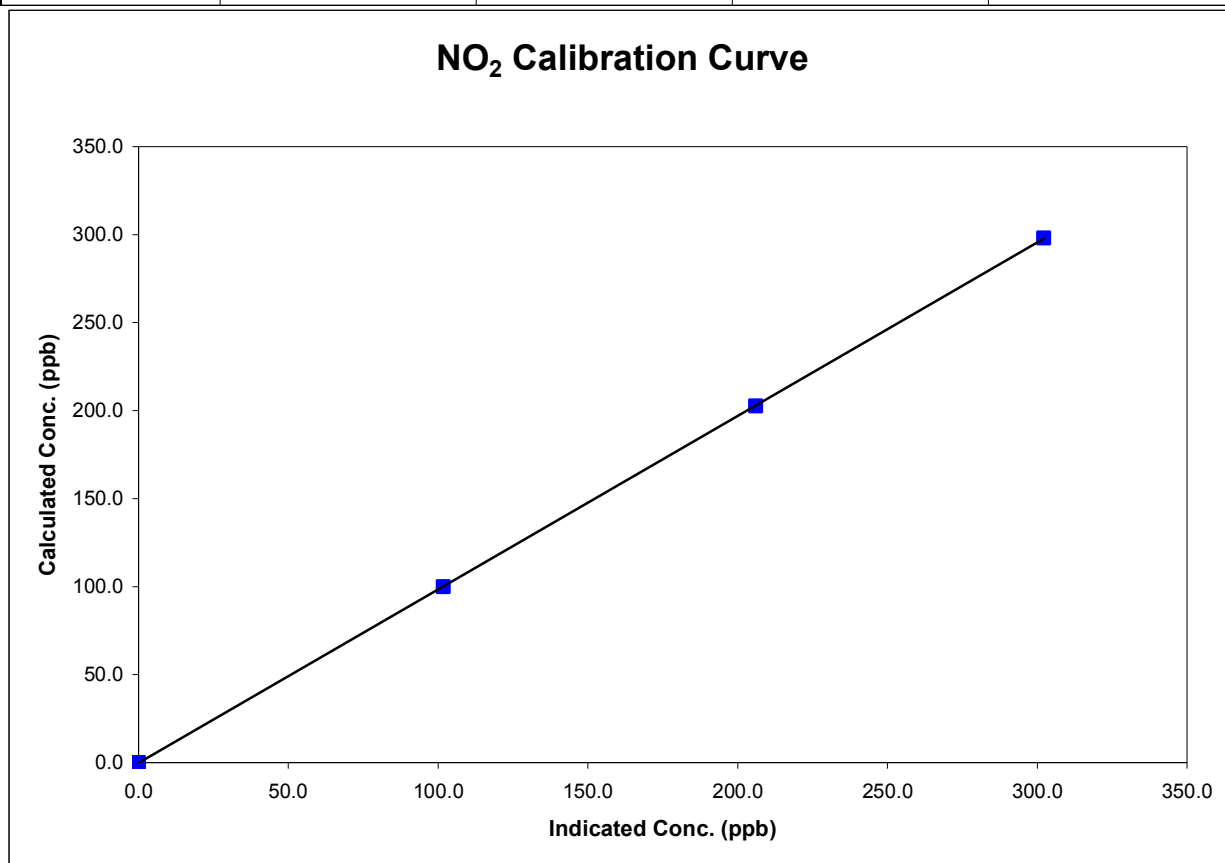


Station Information

Calibration Date	August 17, 2005	Previous Calibration	July 14, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	9:16	End Time (MST)	18:34
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	0.0000	Correlation Coefficient	0.999995
298.0	302.2	0.9864		
202.6	206.0	0.9834		
100.0	101.7	0.9828		
			Slope	0.986120
			Intercept	-0.207216



Calibration Summary

Parameter NO_x
 Air Monitoring Network PASZA

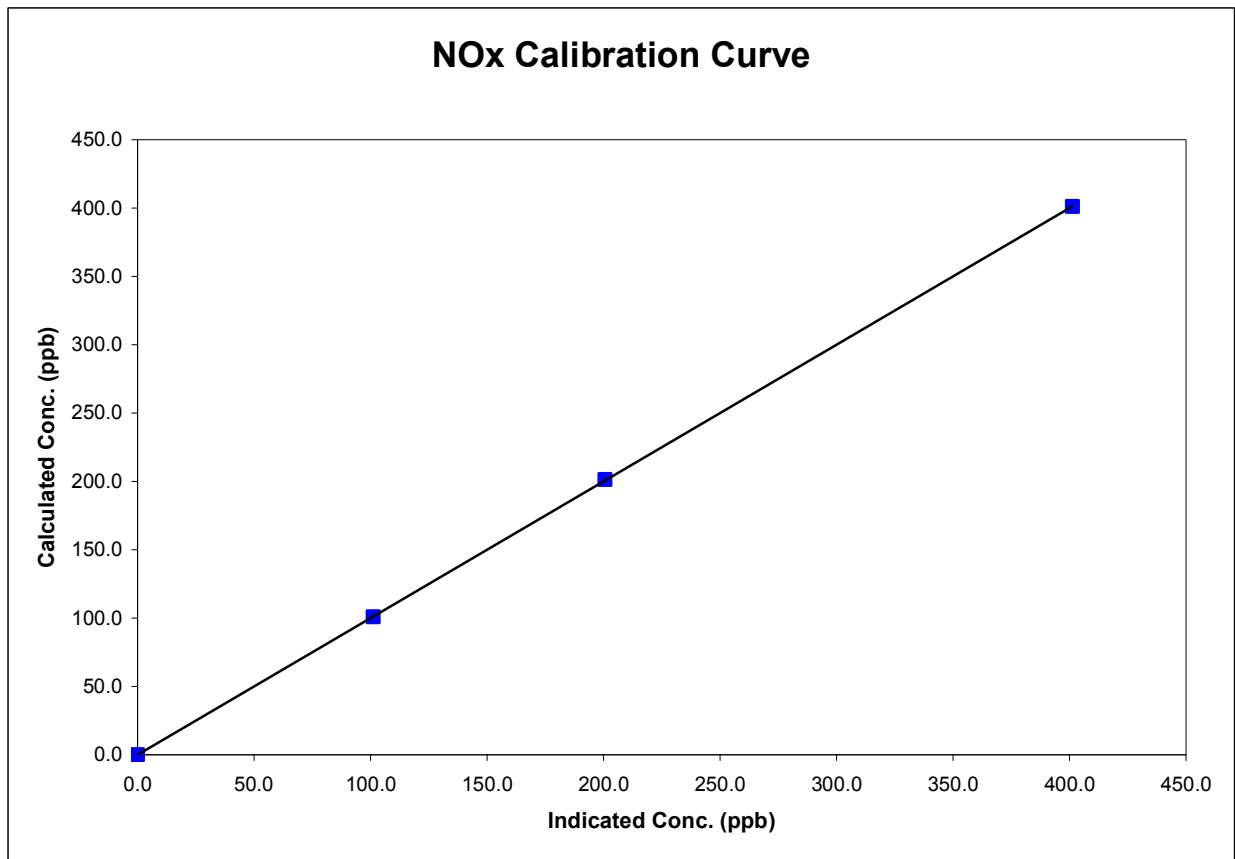


Station Information

Calibration Date	August 17, 2005	Previous Calibration	July 14, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	9:16	End Time (MST)	18:34
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	0.0000	Correlation Coefficient	0.999993
401.1	401.4	0.9992		
201.3	200.6	1.0033		
100.8	101.2	0.9967		
			Slope	0.999628
			Intercept	0.077330



Calibration Summary

Parameter NO
 Air Monitoring Network PASZA

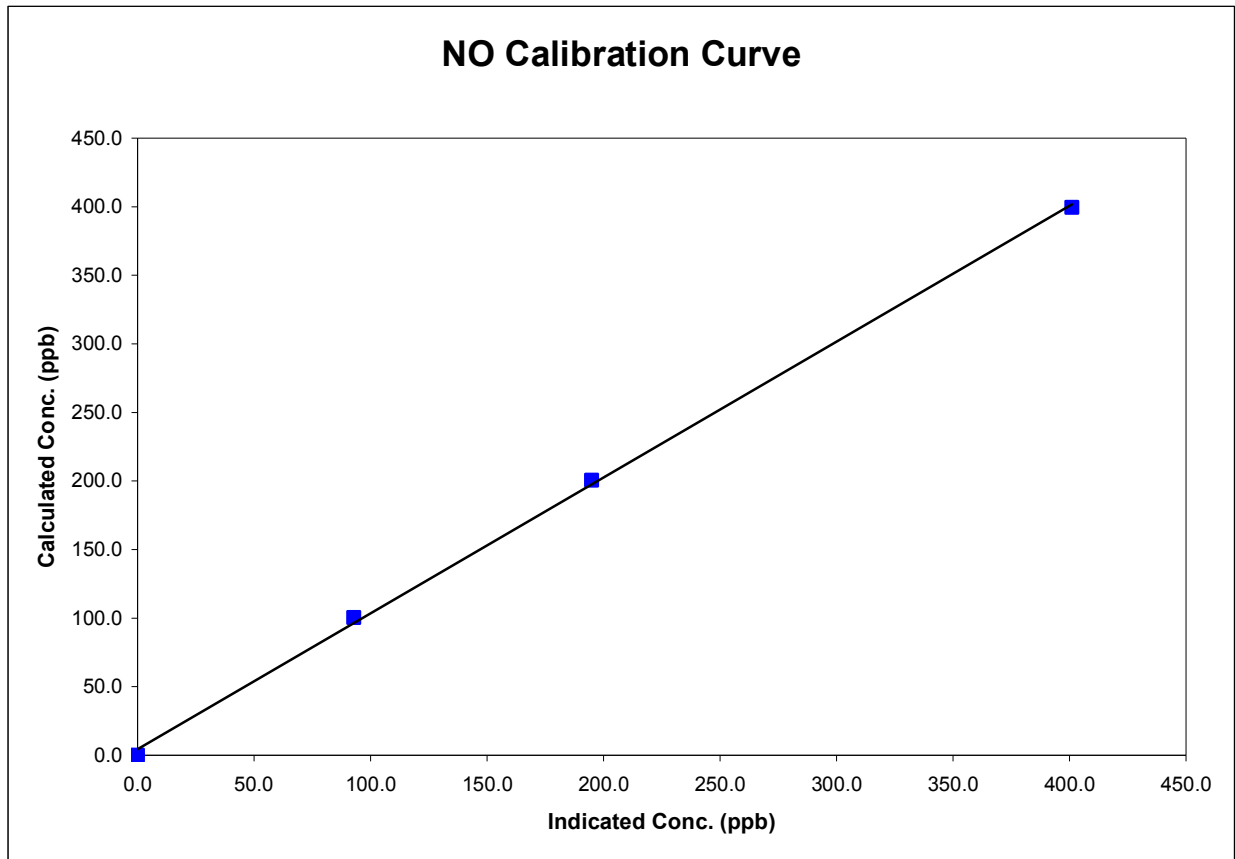


Station Information

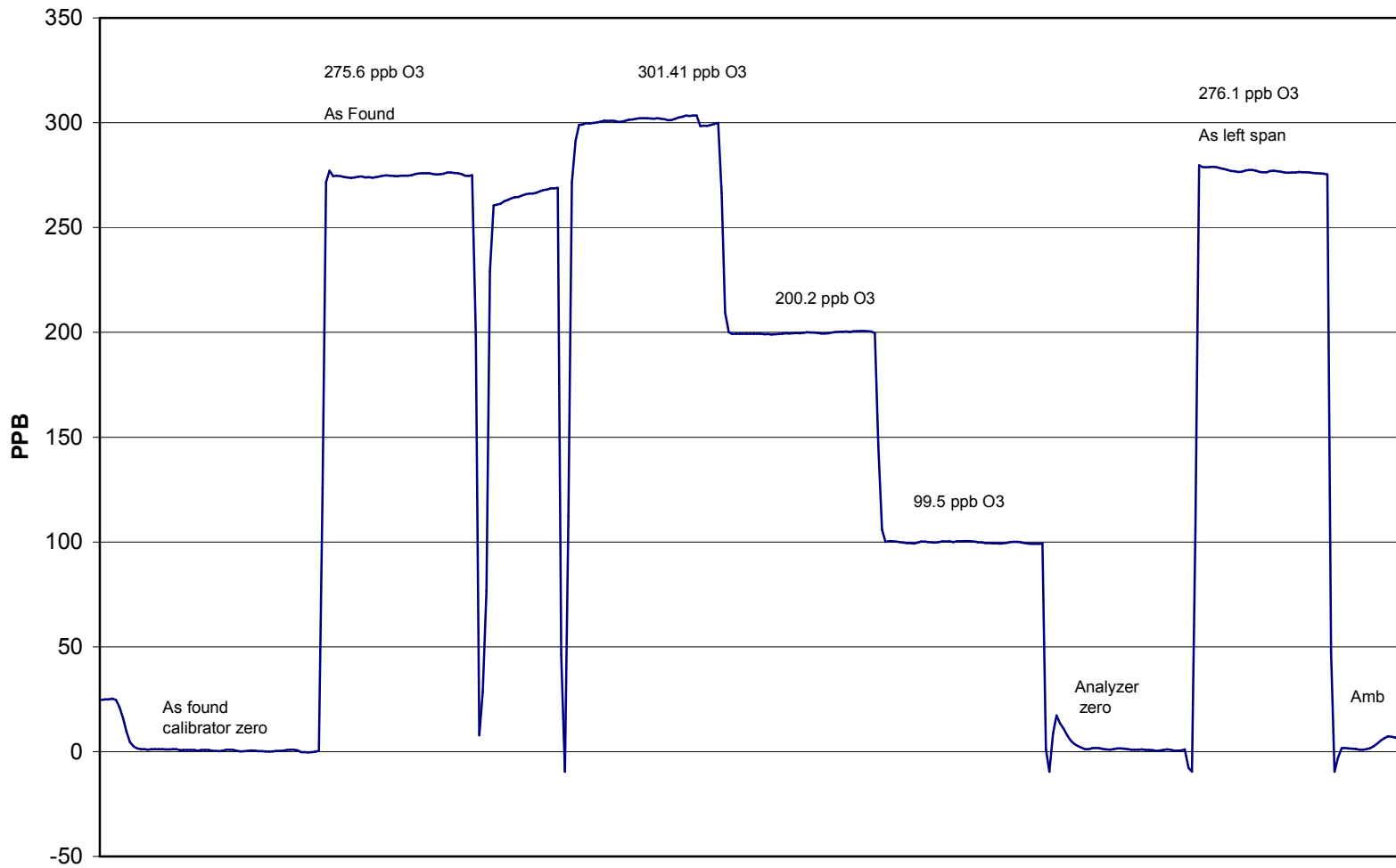
Calibration Date	August 17, 2005	Previous Calibration	July 14, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	9:16	End Time (MST)	18:34
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
399.5	401.0	0.9962	Correlation Coefficient	0.999428
200.5	194.9	1.0287		
100.4	92.8	1.0822		
			Slope	0.990704
			Intercept	4.530133



O3 Calibration



August 17, 2005

Calibration ReportParameter COAir Monitoring Network PASZA**Station Information**

Calibration Date	August 22, 2005	Previous Calibration	July 15, 2005
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:26	End Time (MST)	12:39
Barometric Pressure	0.926 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3016
Cal Gas Conc	3000 ppm	Cal Gas Expiry Date	AUG 28/05
		Cal Gas Cylinder #	AAL20565
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
Calculated slope	1.004134	Calculated slope	1.011138
Calculated intercept	0.393082	Calculated intercept	0.286376
Analyzer make	TEI Model 48C	Analyzer serial #	508011062

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
CO span setting	1.018		1.729	
CO zero setting	1.133		1.018	
Sample pressure	675.8	mm Hg	686.5	mm Hg
Sample Flow	1.068	LPM	1.078	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)
4993	0.00	0.00	-0.34	N/A
4993	39.97	23.82	23.27	1.0239
4993	19.96	11.95	11.50	1.0386
4993	9.97	5.98	5.73	1.0442
4993	0.00	0.00	0.25	As Found Zero
4993	39.97	23.82	24.57	As Found Span
Average Correction Factor				1.0356

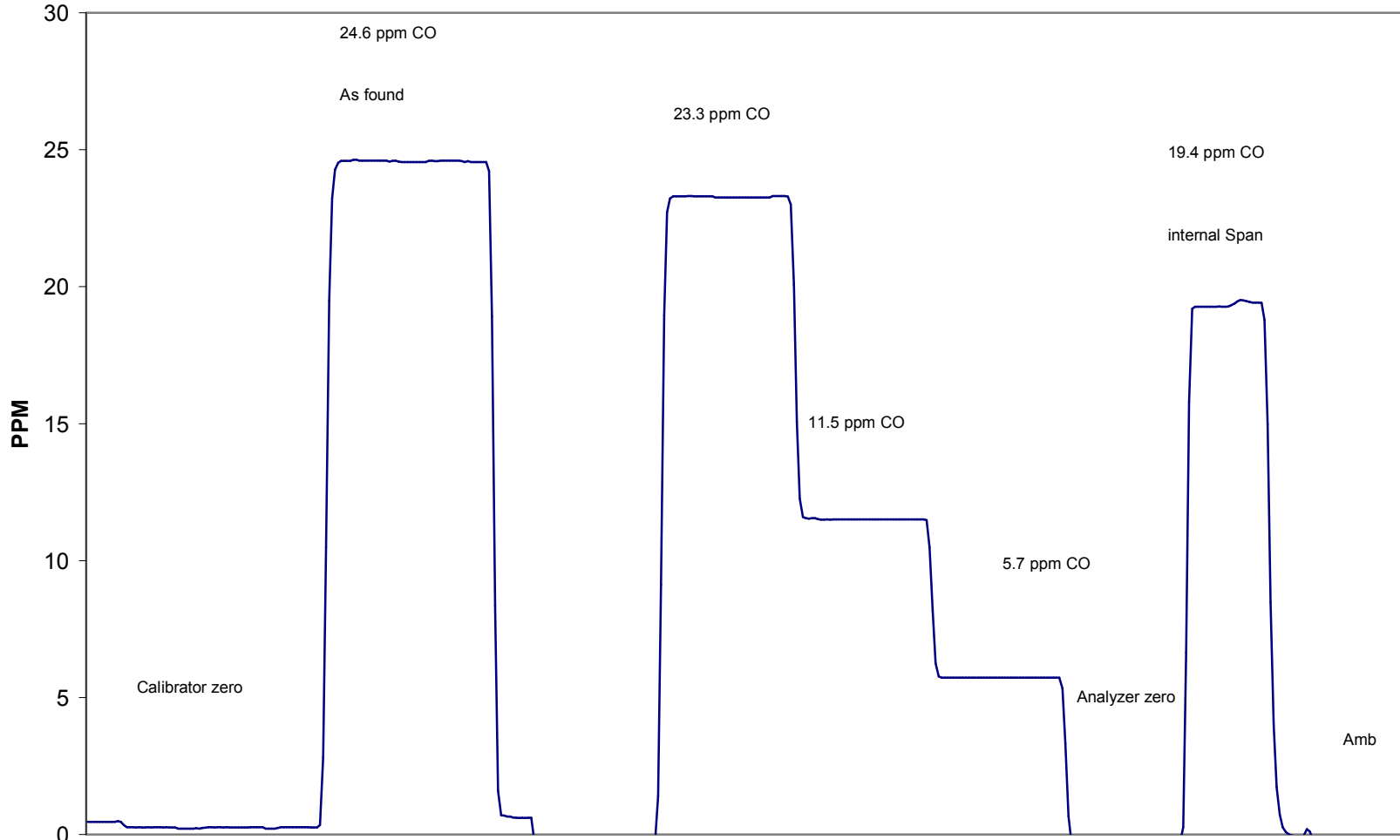
Calculated value of As Found Response: 24.816 ppm Percent Change of As Found: -4.2%

	before calibration		after calibration	
Auto zero	0.05	ppm	-0.01	ppm
Auto span	19.82	ppm	19.88	ppm

Notes: _____

_____Calibration Performed By: Kelly Baragar

CO Calibration



August 22, 2005

Calibration Summary

Parameter THC
 Air Monitoring Network PASZA

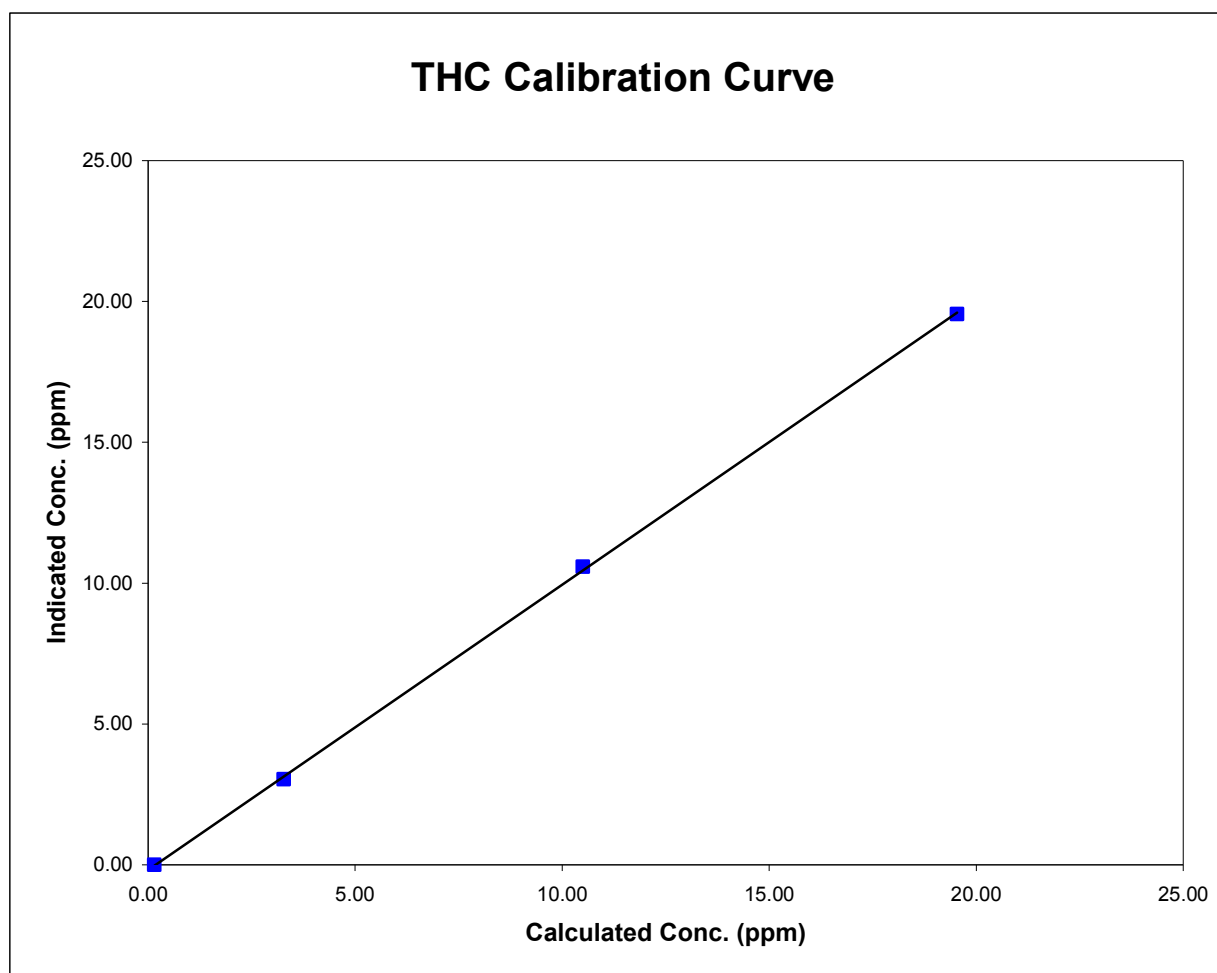


Station Information

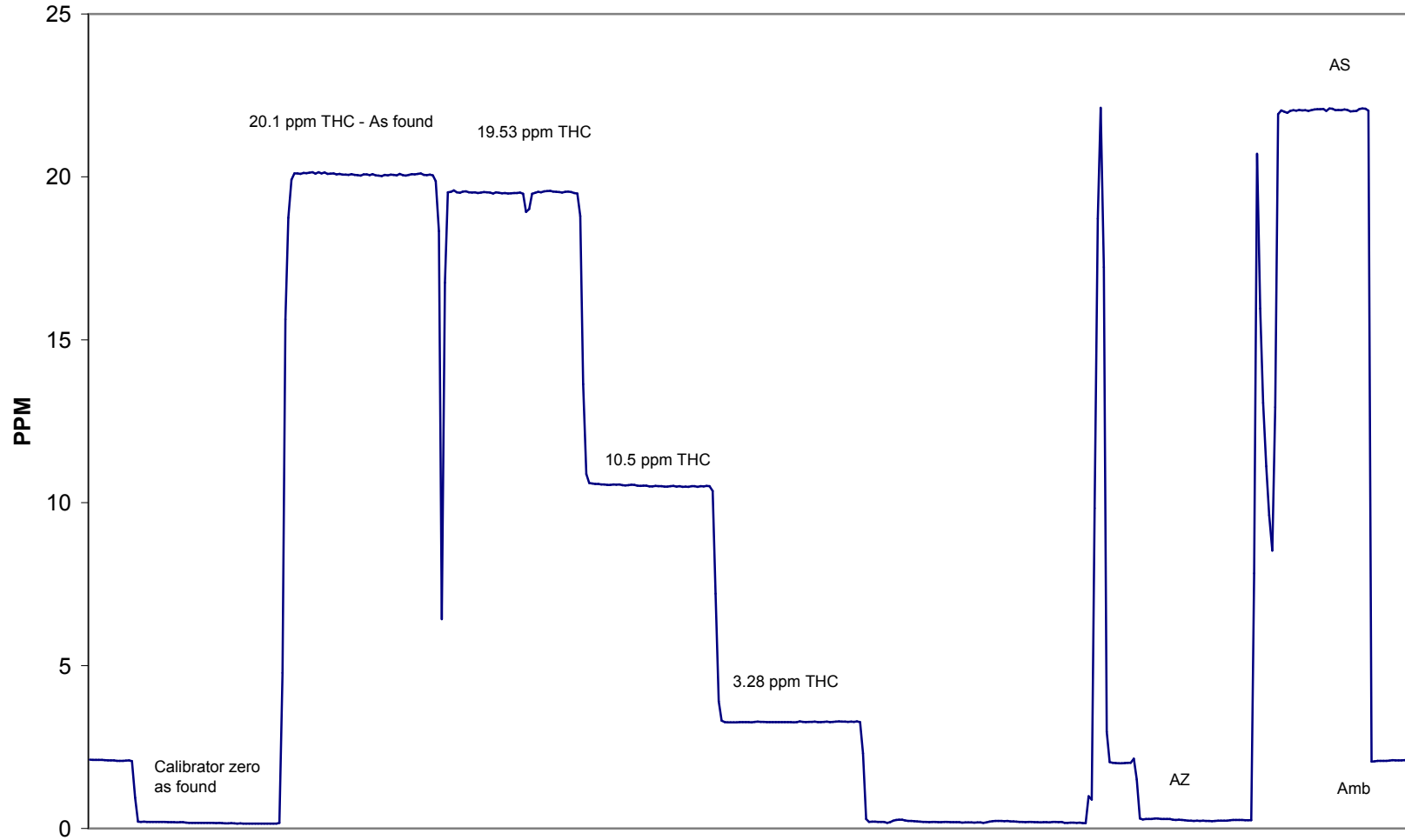
Calibration Date	August 22, 2005	Previous Calibration	July 15, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	12:14	End Time (MST)	16:15
Analyzer make/model	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.152	N/A		
19.553	19.535	1.0009	Correlation Coefficient	0.999864
10.584	10.501	1.0079		
3.034	3.276	0.9259	Slope	1.012849
			Intercept	-0.180686

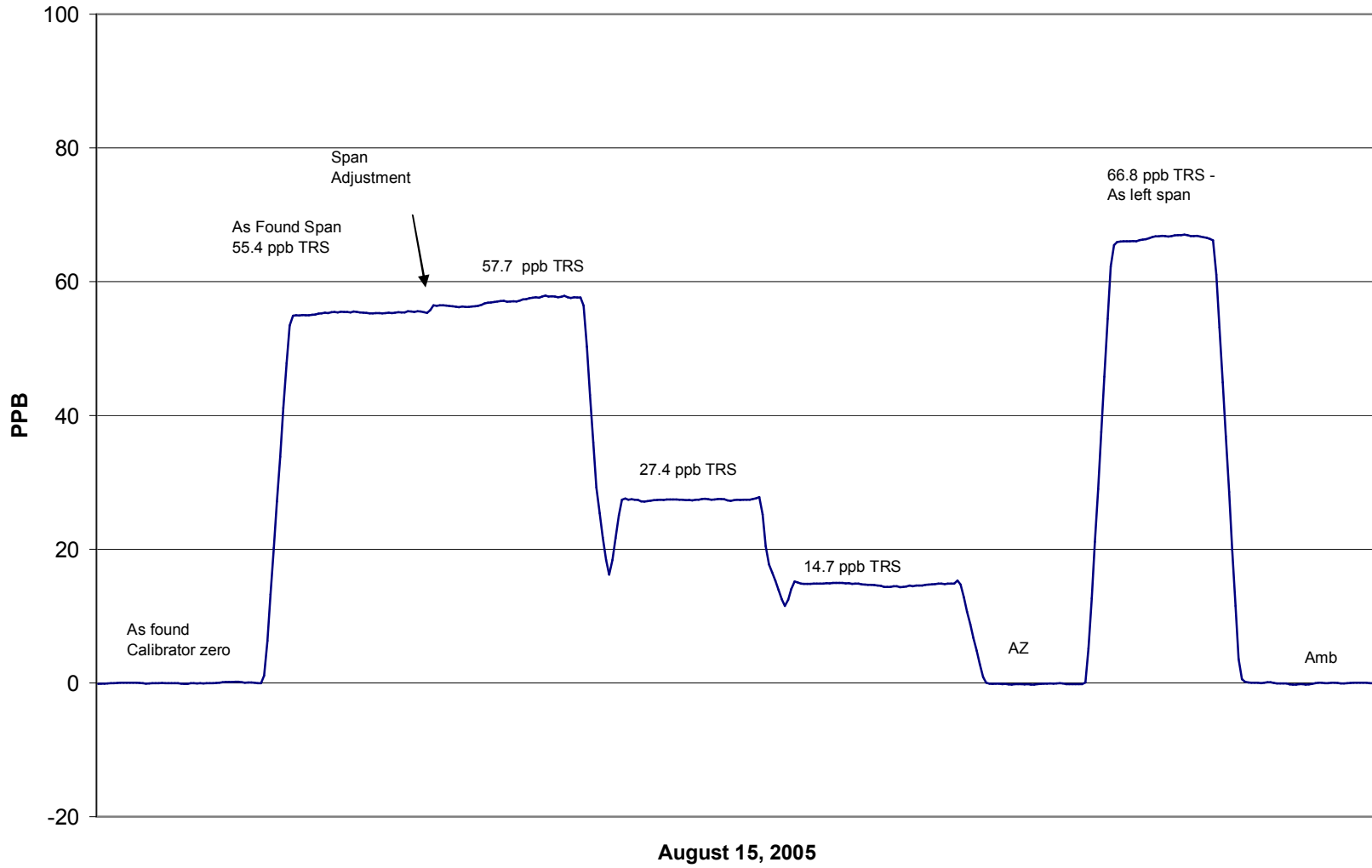


THC Calibration



August 22, 2005

TRS Calibration



Calibration Summary

Parameter SO2
 Air Monitoring Network PASZA

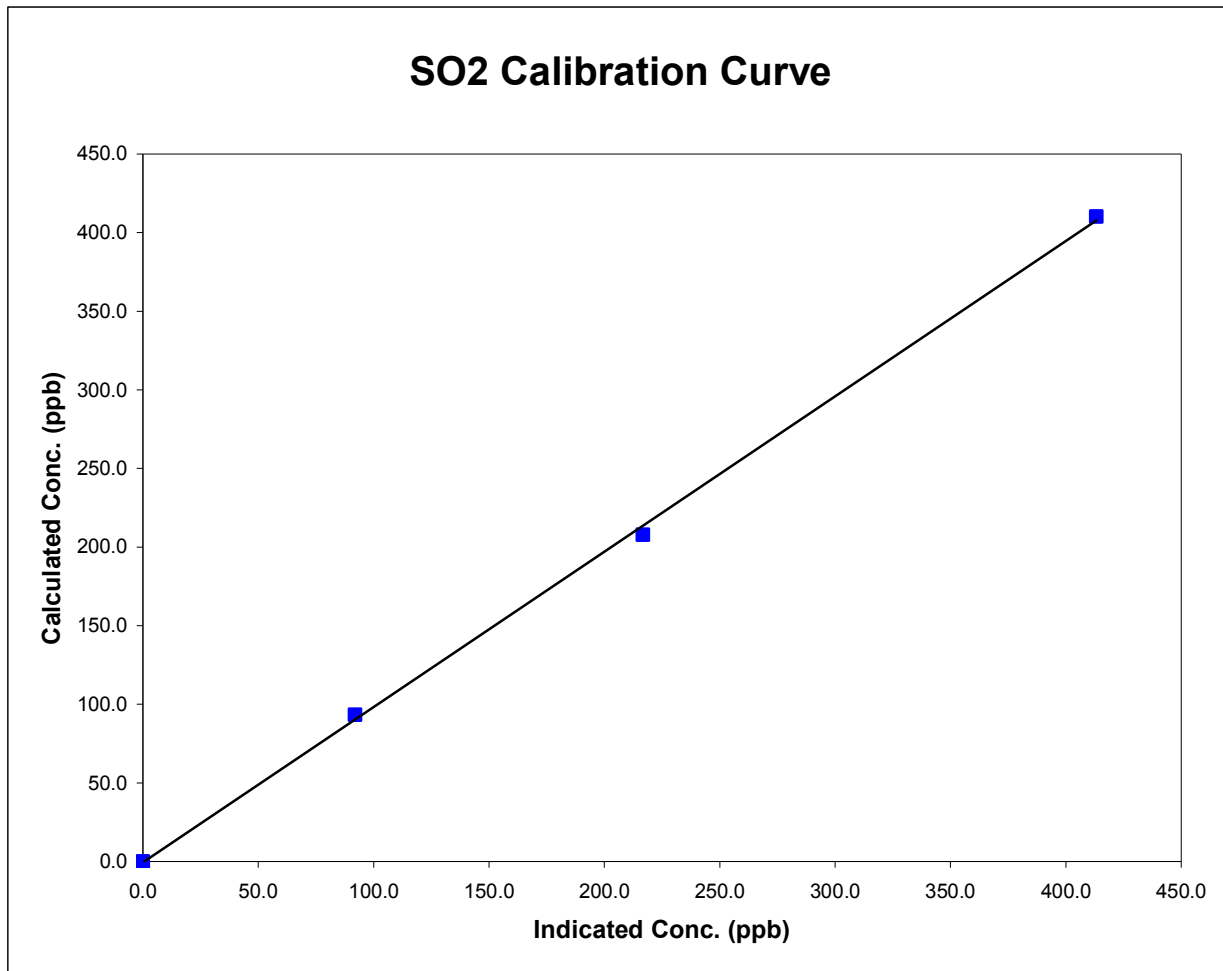


Station Information

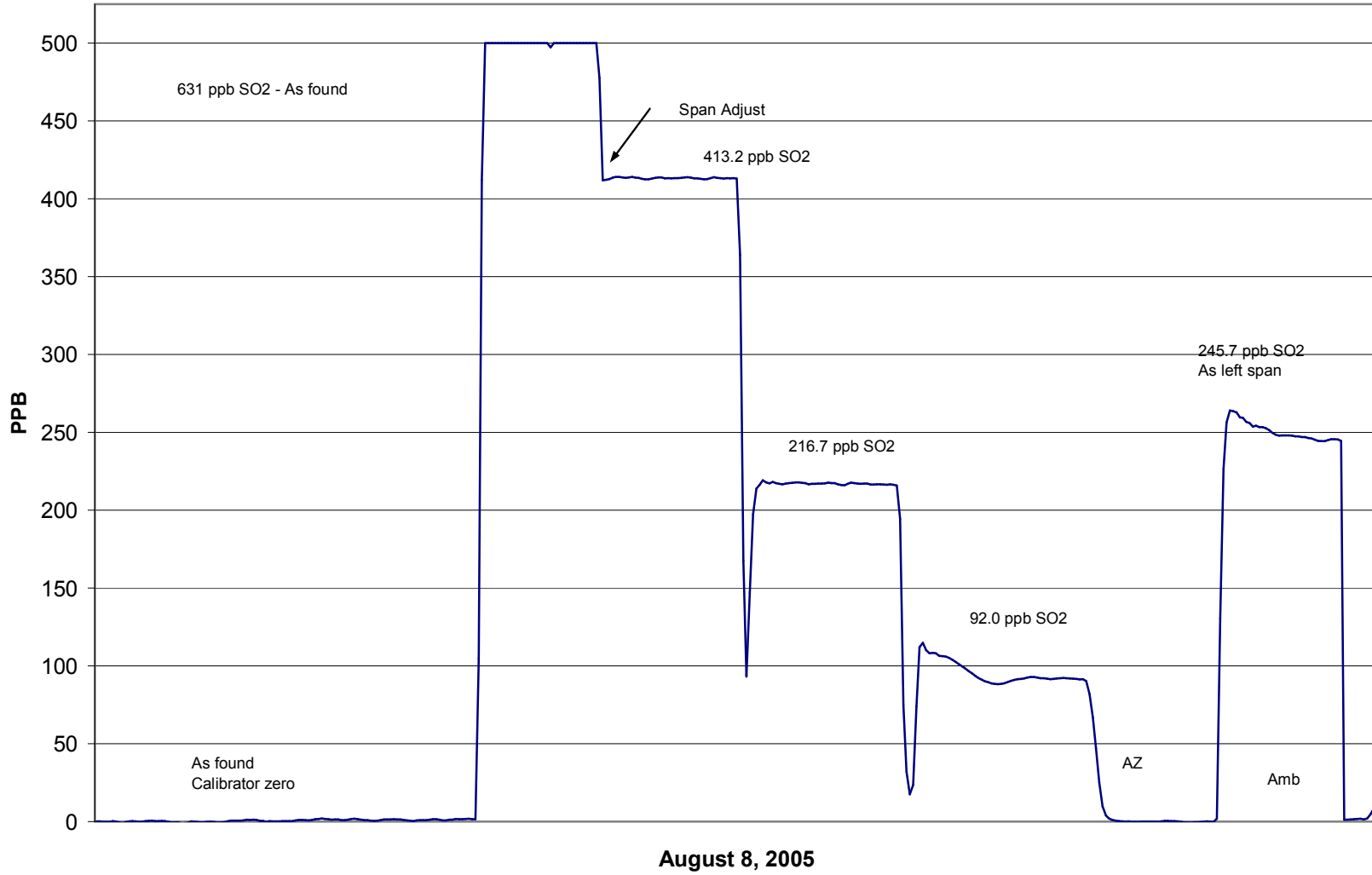
Calibration Date	August 8, 2005	Previous Calibration	July 28, 2005
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	10:03	End Time (MST)	13:36
Analyzer make/model	API 100	Analyzer serial #	32

Calibration Data

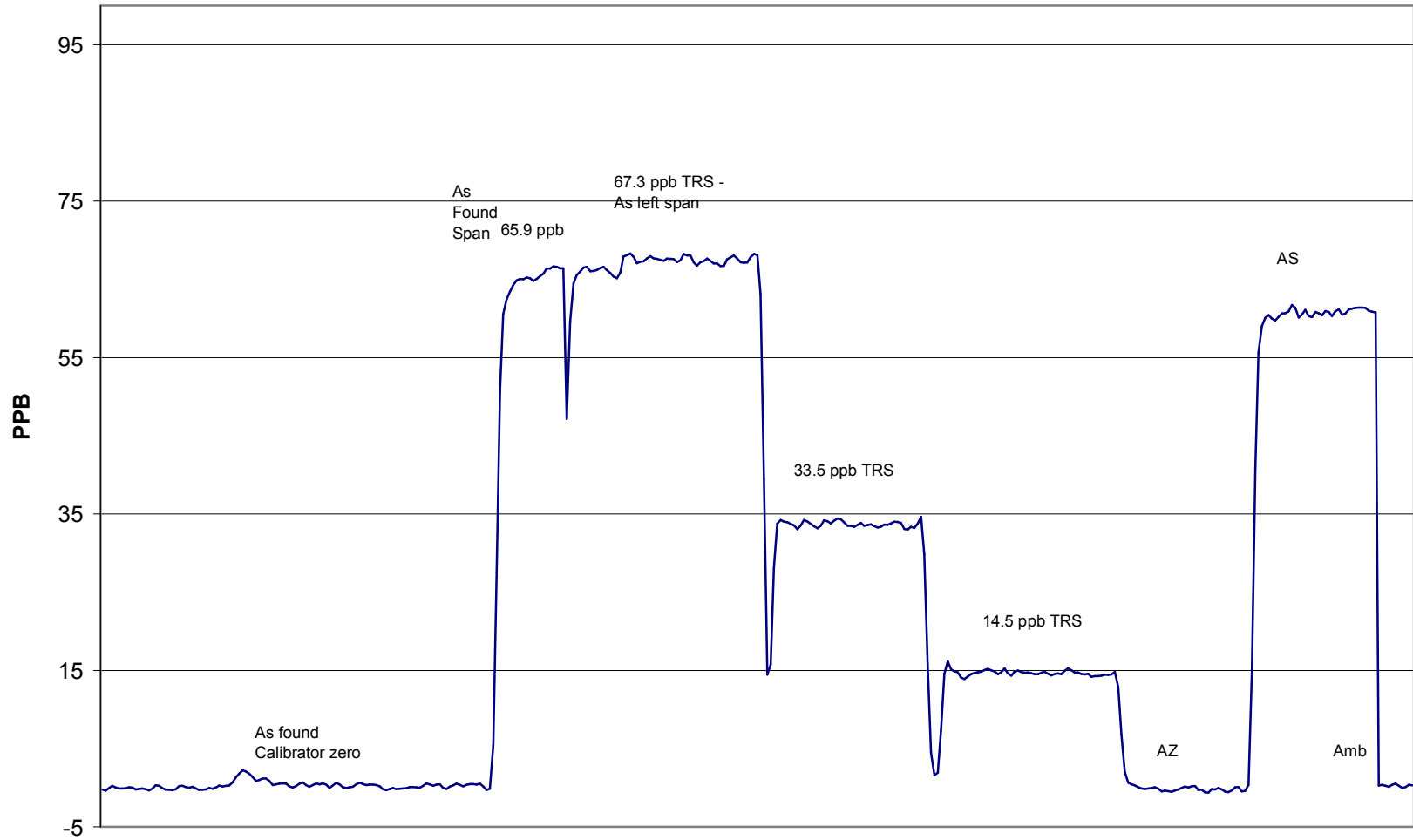
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A		
410.1	413.2	0.9925	Correlation Coefficient	0.999497
207.9	216.8	0.9592		
93.3	92.0	1.0137	Slope	0.987883
			Intercept	-0.466266



SO2 Calibration



TRS Calibration



Calibration ReportParameter PM2.5Air Monitoring Network PASZA**Station Information**

Calibration Date	August 8, 2005	Previous Calibration	June 22, 2005
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:58	End Time (MST)	12:45
Barometric Pressure	0.932 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15
	<u>Before</u>		<u>After</u>
DACS slope	0.050000	DACS slope	0.050000
DACS intercept	-50.000000	DACS intercept	-50.000000

Analyzer Information

Analyzer make	R&P	Control Unit serial #	140AB246340305
Analyzer model	TEOM 1400AB	Sensor Unit serial #	140AB246340305

	before		after	
Main Flow Set Point	2.990	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	27	%	18	%
Ko Factor	12122		12122	
Temperature	17.4	Deg C	17.4	Deg C
Pressure	0.936	ATM	0.936	ATM

Calibration Data

Parameter	Set Point	Indicated Reading (measured externally)	Tolerance	TEOM Reading
zero flow - main	0.0	0.00		0.01
zero flow - auxillary	0.0	0.00		0.01
flow recovery - main	45 - 60 Seconds	28.0	45 - 60 Seconds	28
flow recovery - aux	46 - 60 Seconds	55.0	46 - 60 Seconds	55
Temperature	measured	16.3	+/- 1.0 Deg C	17.4
Pressure	measured	0.932	+/- 1.5% ΔATM	0.936
Total Flow	16.67 SLPM	16.72		16.70
Main Flow	13.67 SLPM	14.09	+/- 1.0 SLPM	13.67
Auxillary Flow	3.0 SLPM	3.091	+/- 0.2 SLPM	2.990
Leak Check - main	0.0		<0.15 SLPM	0.01
Leak Check - aux	0.0		<0.15 SLPM	0.11
Ko Factor (w/o filter)	measured	NA	filter weight (g)	0.11112
Ko Factor (w/ filter)	measured	NA	% Ko difference	N/A

Notes: Cleaned Head.
New filter... old one wouldn't return to stage 4.

Calibration Performed By: Dawn Ewan

Calibration Report
 Parameter SO₂
 Air Monitoring Network PASZA
**Station Information**

Calibration Date	August 2, 2005	Previous Calibration	July 28, 2005
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:00	End Time (MST)	23:12
Barometric Pressure	27.67 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	3,141 ng/min	Perm-tube Expiry Date	June 30/05
Correction factor	0.940581	Perm-tube Cert #	19-14433
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	<u>Before</u>		<u>After</u>
Calculated slope	0.983871	Calculated slope	0.987346
Calculated intercept	1.929856	Calculated intercept	2.557110
Analyzer make	API 102A	Analyzer serial #	212

	before		after	
Concentration range	500	ppb	500	ppb
Sample Flow	545	ccm	578	ccm
UV Lamp Voltage	3290	mv	3230	mv
Lamp Ratio	90	%	90	%
Rx Cell Temp	51	Deg C	50.9	Deg C
PMT Temp	6.8	Deg C	7	Deg C
IZS Temp	45	Deg C	45	Deg C
Slope	1.202		1.224	
Intercept	18.3		15.3	

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	2685.4	0.0	1.2	N/A
2855	2685.4	446.5	452.2	0.9873
4950	4655.9	257.5	255.1	1.0093
10100	9499.9	126.2	121.9	1.0351
zero	2677.8	0.0	1.0	As Found Zero
2847	2677.8	447.7	437.9	As Found Span
Average Correction Factor				1.0105

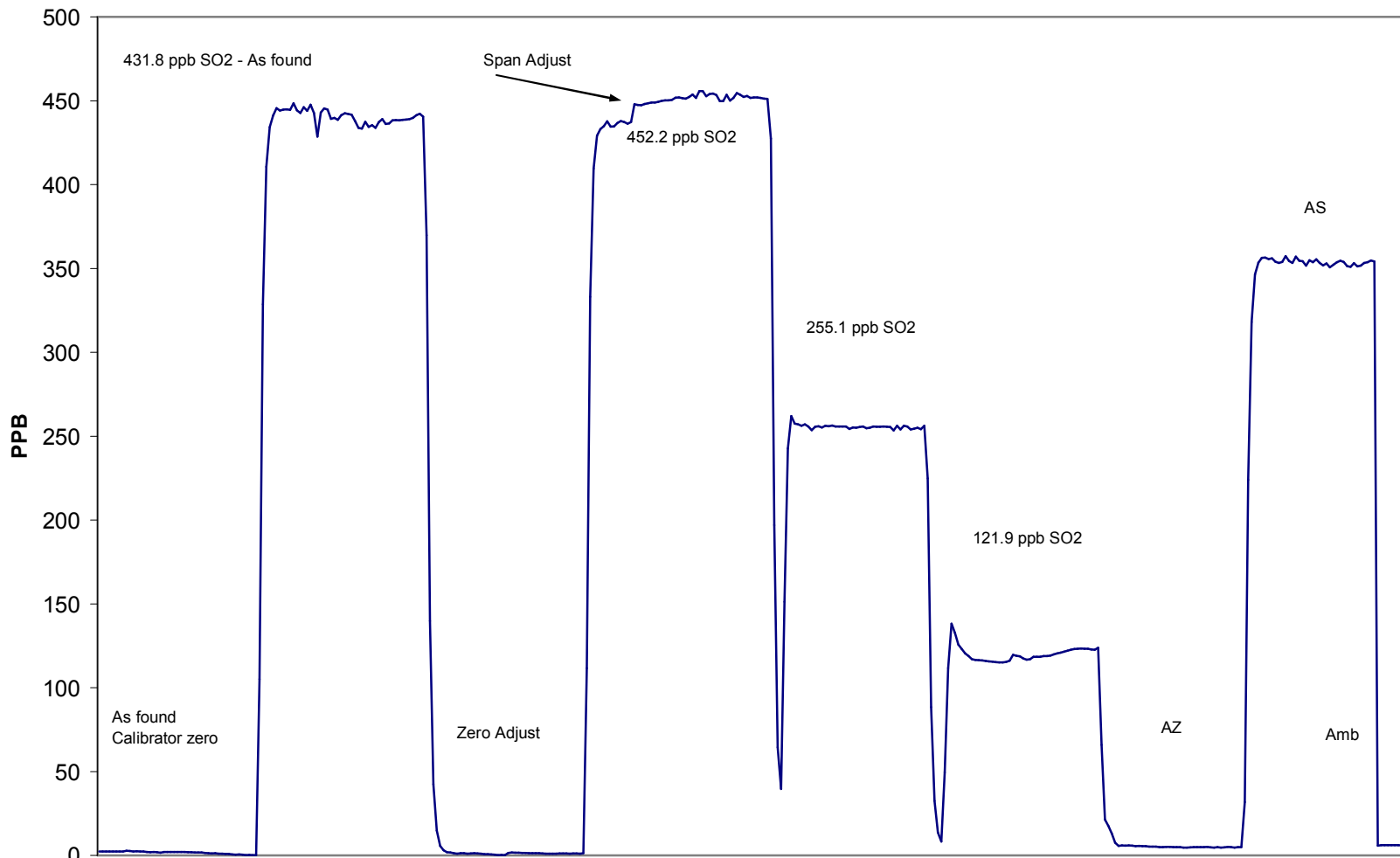
Calculated value of As Found Response: 431.796 ppm Percent Change of As Found: 3.6%

	before calibration		after calibration	
Auto zero	4.6	ppm	7.3	ppm
Auto span	342.0	ppm	351.0	ppm

 Notes: _____

 Calibration Performed By: Dawn Ewan

SO2 Calibration



August 2, 2005

Calibration Report



Parameter SO₂

Air Monitoring Network PASZA

Station Information

Calibration Date	<u>August 9, 2005</u>	Previous Calibration	<u>August 2, 2005</u>
Station Number	<u>3</u>	Station Location	<u>Smoky Heights</u>
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	<u>8:57</u>	End Time (MST)	
Barometric Pressure	<u>27.99</u> inches Hg	Station Temperature	<u>20.0</u> Deg C
Calibrator	<u>VICI Metronics</u>	Serial Number	<u>111-1695</u>
Perm-tube Conc	<u>2,097</u> ng/min	Perm-tube Expiry Date	<u>June 30/05</u>
Correction factor	<u>0.951459</u>	Perm-tube Cert #	<u>19-9955</u>
DACS make	<u>Focus AP1000</u>	DACS serial No.	<u>45274</u>
DACS voltage range	<u>0 - 10 volt</u>	DACS channel #	<u>4</u>
	<u>Before</u>		<u>After</u>
Calculated slope	<u>0.987346</u>	Calculated slope	<u>0.998067</u>
Calculated intercept	<u>2.557110</u>	Calculated intercept	<u>0.957641</u>
Analyzer make	<u>API 102A</u>	Analyzer serial #	<u>212</u>

	before		after	
Concentration range	500	ppb	500	ppb
Sample Flow	578	ccm	578	ccm
UV Lamp Voltage	3230	mv	3230	mv
Lamp Ratio	90	%	90	%
Rx Cell Temp	50.9	Deg C	50.9	Deg C
PMT Temp	7	Deg C	7	Deg C
IZS Temp	45	Deg C	45	Deg C
Slope	1.224		0.806	
Intercept	15.3		20.4	

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	2026.6	0.0	0.2	N/A
2130	2026.6	395.0	395.2	0.9994
4900	4662.1	171.7	170.8	1.0051
9164	8719.2	91.8	89.6	1.0241
zero	2012.3	0.0	2.1	As Found Zero
2115	2012.3	397.8	615.0	As Found Span
Average Correction Factor				1.0095

Calculated value of As Found Response: 607.696 ppm Percent Change of As Found: -52.8%

	before calibration		after calibration	
Auto zero	7.3	ppm	1.5	ppm
Auto span	351.0	ppm	227.9	ppm

Notes: _____

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter SO2
 Air Monitoring Network PASZA

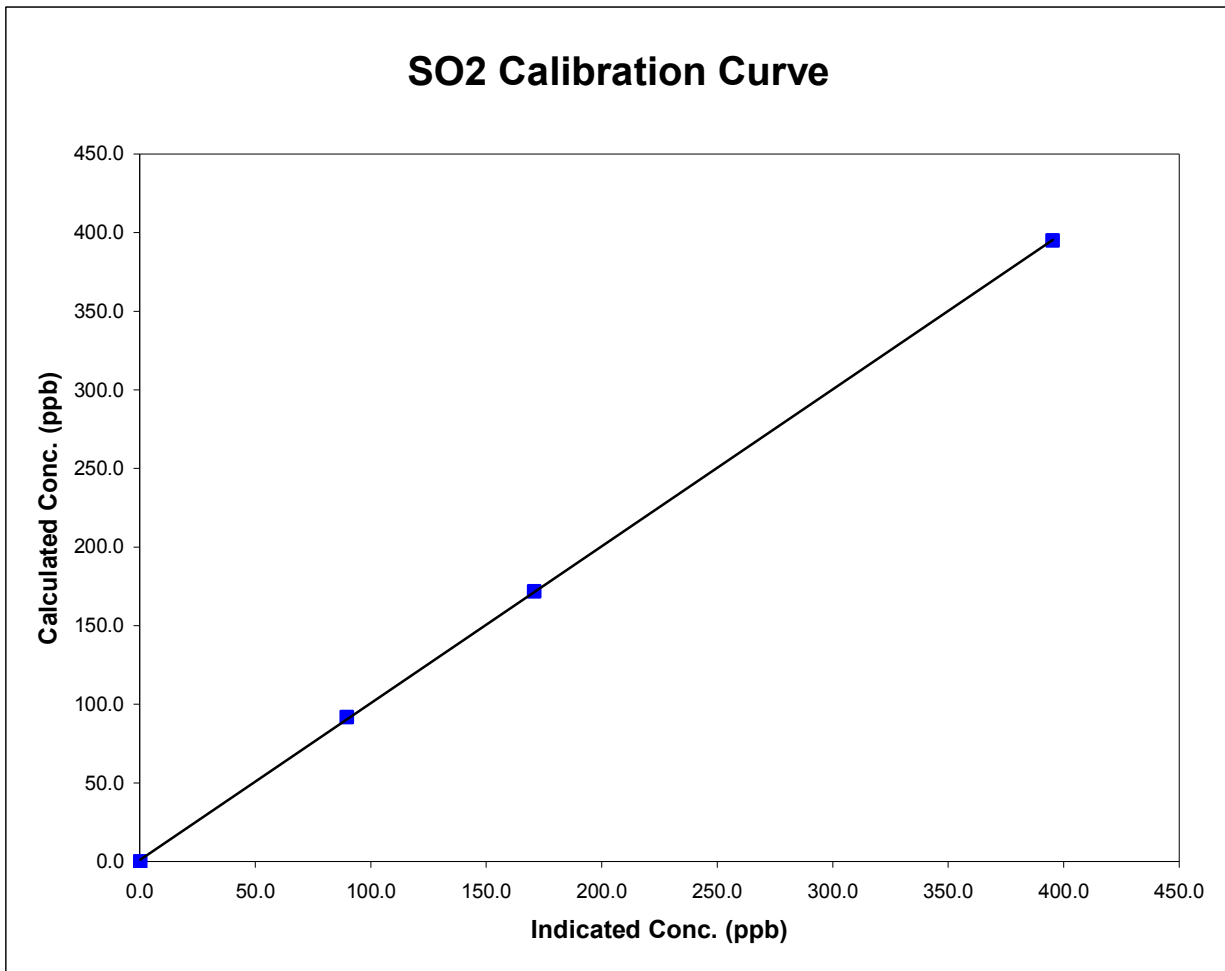


Station Information

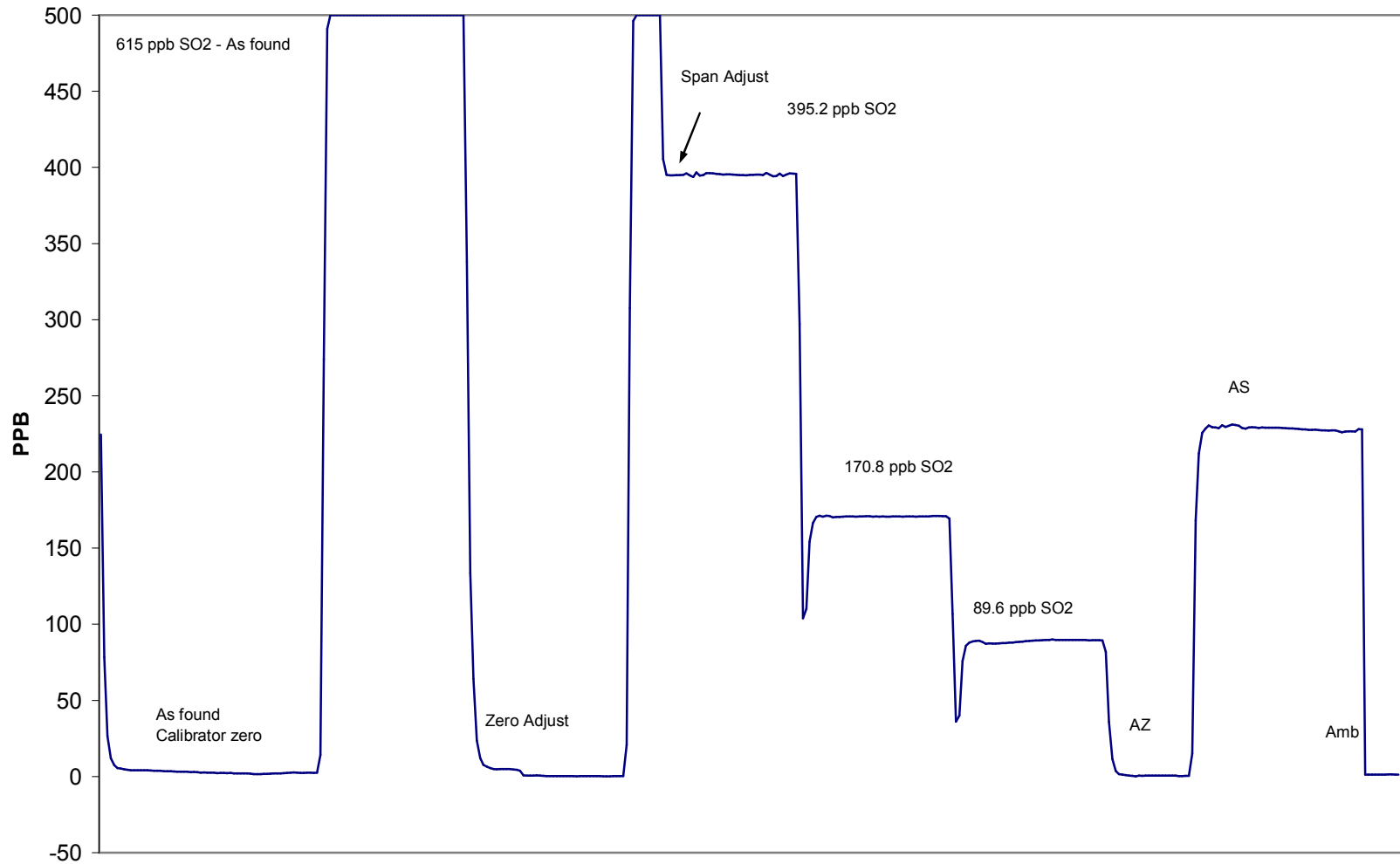
Calibration Date	August 9, 2005	Previous Calibration	August 2, 2005
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	8:57	End Time (MST)	0:00
Analyzer make/model	API 102A	Analyzer serial #	212

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	N/A		
395.0	395.2	0.9994	Correlation Coefficient	0.999958
171.7	170.8	1.0051		
91.8	89.6	1.0241	Slope	0.998067
			Intercept	0.957641

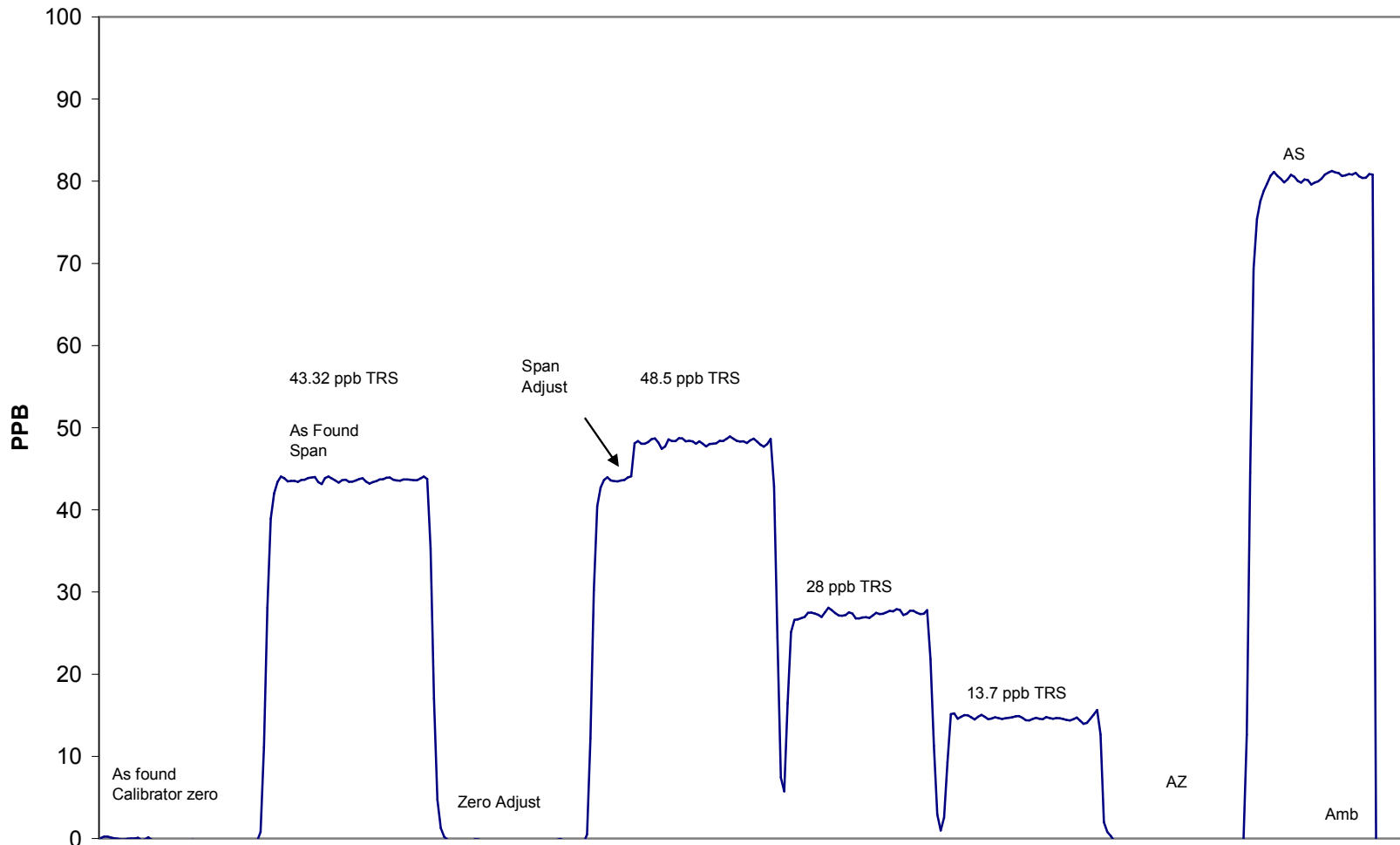


SO2 Calibration



August 9, 2005

TRS Calibration



August 2, 2005

Calibration ReportParameter PM2.5Air Monitoring Network PASZA**Station Information**

Calibration Date	August 2, 2005	Previous Calibration	July 5, 2005
Station Number	1	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:55	End Time (MST)	12:23
Barometric Pressure	0.925 inches Hg	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

Analyzer Information

Analyzer make	R&P	Control Unit serial #	140AB246340305
Analyzer model	TEOM 1400AB	Sensor Unit serial #	140AB246340305

	before		after	
Main Flow Set Point	2.990	SLPM	2.990	SLPM
Aux Flow Set Point	13.65	SLPM	13.65	SLPM
Filter Load	29	%	27	%
Ko Factor	10997		10997	
Temperature	11.2	Deg C	11.2	Deg C
Pressure	0.93	ATM	0.93	ATM
Main Fadj				
Aux Fadj				

Calibration Data

Parameter	Set Point	Indicated Reading	Tolerance	New Reading
zero flow - main	0.0	0.01		
zero flow - auxillary	0.0	0.04		
flow recovery - main	45 - 60 Seconds	28.0	45 - 60 Seconds	28.0000
flow recovery - aux	46 - 60 Seconds	44.0	46 - 60 Seconds	44.0000
Temperature	measured	11.2	+/- 1.0 Deg C	11.2
Pressure	measured	0.930	+/- 1.5% ΔATM	0.930
Total Flow	16.67 SLPM	16.67		16.67
Main Flow	13.67 SLPM	14.04	+/- 1.0 SLPM	14.04
Auxillary Flow	3.0 SLPM	3.076	+/- 0.2 SLPM	3.076
Leak Check - main	0.0	0.04	<0.15 SLPM	0.04
Leak Check - aux	0.0	0.09	<0.15 SLPM	0.09
Ko Factor	measured	NA		NA

Notes: Head is clean.
No adjustments made.
Changed filter

Calibration Performed By: Dawn Ewan

Calibration ReportParameter SO₂Air Monitoring Network PASZA**Station Information**

Calibration Date	August 18, 2005	Previous Calibration	July 11, 2005
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other: Mirror Replacement
Start Time (MST)	9:37	End Time (MST)	14:10
Barometric Pressure	0.915 atm	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3016
Cal Gas Make	Scott	Cal Gas Expiry Date	December 12, 2005
Cal Gas Conc.	10.3 ppm	Cal Gas Cylinder #	BLM002816
DACS make	Focus AP1000	DACS serial No.	45271
DACS voltage range	0 - 10 volt	DACS channel #	3
	Before		After
Calculated slope	1.001235	Calculated slope	0.962678
Calculated intercept	0.238810	Calculated intercept	0.185709
Analyzer make	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	2.43	ppb	4.12	ppb
Coefficient	1.122		0.972	
Lamp Voltage	1000.0	Volts	901.0	Volts
Chamber Temp	43.9	Deg C	43.6	Deg C
Sample Flow	608	ccm	608	ccm

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
1997	0.00	0.00	-0.03	N/A
1997	14.90	76.28	78.90	0.9668
1997	9.90	50.81	53.03	0.9582
1997	4.90	25.21	25.53	0.9874
1997	0.00	0.00	-1.48	As Found Zero
1997	14.90	76.28	26.43	As Found Span
Average Correction Factor				0.9708

Calculated value of As Found Response: 28.188 ppm Percent Change of As Found: 63.0%

	before calibration		after calibration	
Auto zero	0.36	ppm	-0.14	ppm
Auto span	28.85	ppm	33.69	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter SO2
 Air Monitoring Network PASZA

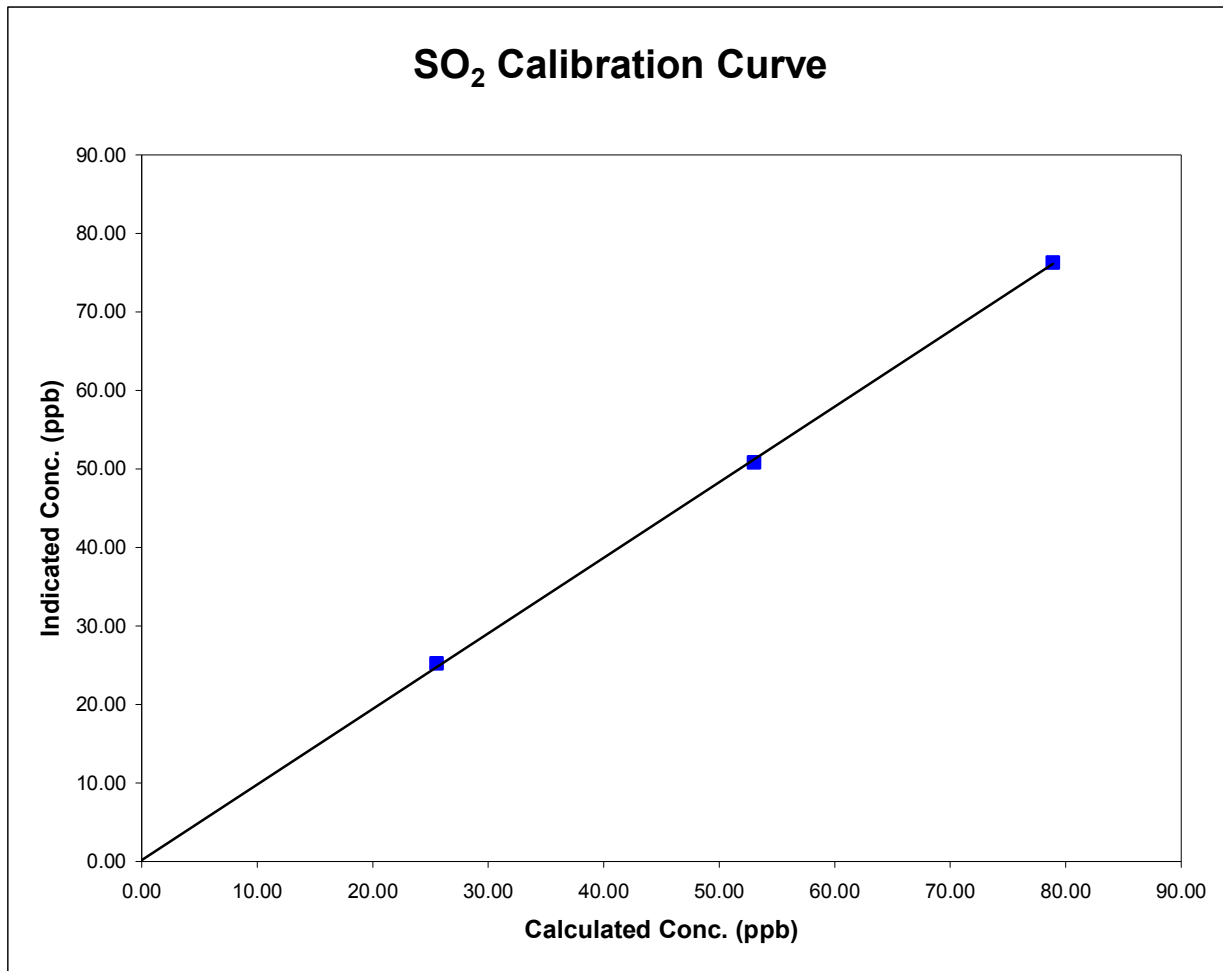


Station Information

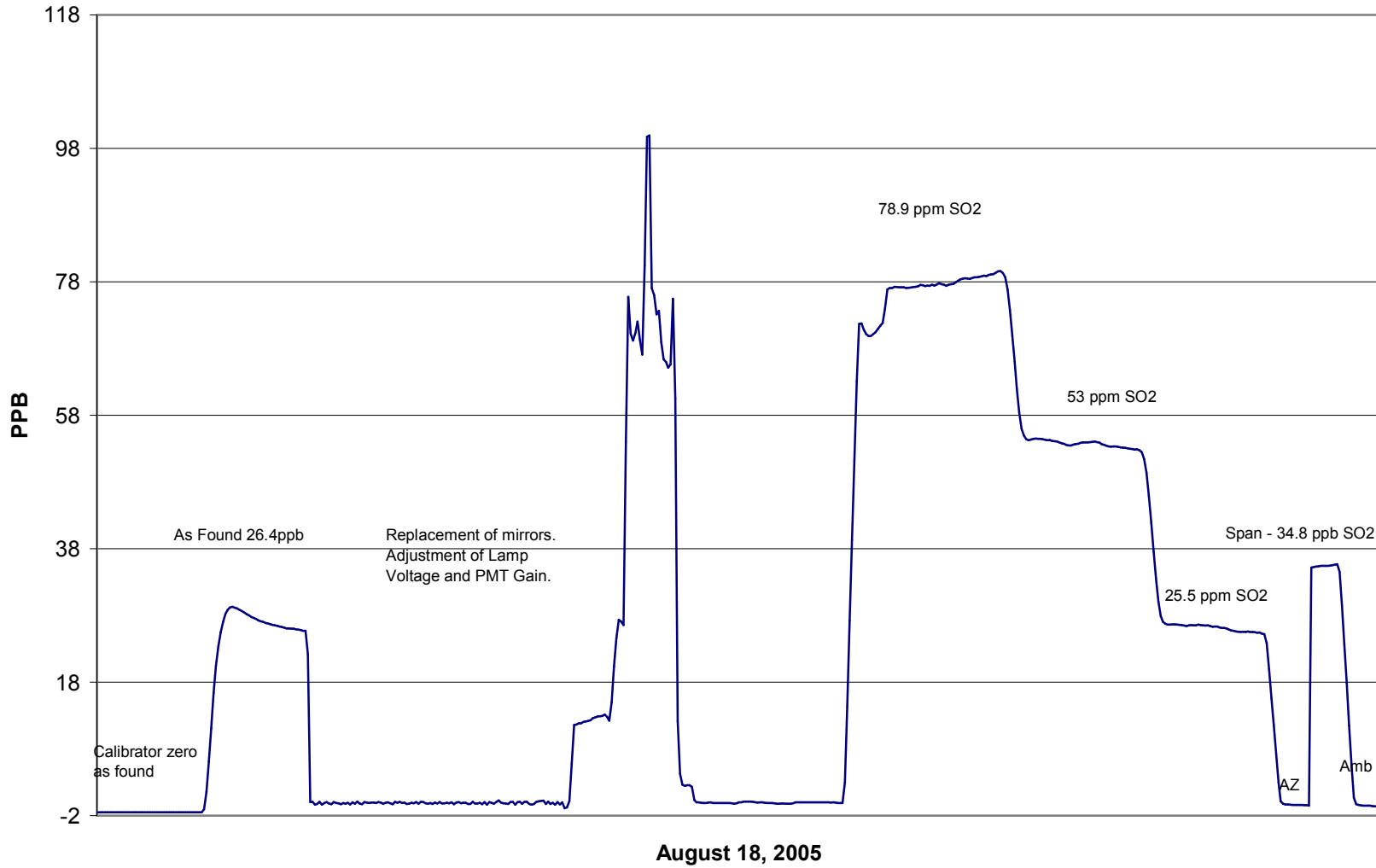
Calibration Date	August 18, 2005	Previous Calibration	July 11, 2005
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	9:37	End Time (MST)	14:10
Analyzer make/model	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.025	N/A		
76.281	78.898	0.9668	Correlation Coefficient	0.999869
50.810	53.029	0.9582		
25.211	25.533	0.9874	Slope	0.962678
			Intercept	0.185709



SO₂ Calibration



Calibration Report

Parameter **NOx-NO-NO₂**
 Air Monitoring Network **PASZA**



Station Information

Calibration Date	<u>August 19, 2005</u>	Previous Calibration	<u>July 17, 2005</u>
Station Number	<u>4</u>	Station Location	<u>AG Canada Research Station</u>

Reason: Routine Installation Removal Other: _____

Start Time (MST)	<u>9:52</u>	End Time (MST)	<u>13:46</u>
Barometric Pressure	<u>0.911</u> <small>Atm</small>	Station Temperature	<u>20.0</u> <small>Deg C</small>
Calibrator	<u>EnviroNics 6100</u>	Serial Number	<u>3016</u>
NO Cal Gas Conc	<u>50.3</u> <small>ppm</small>	Cal Gas Expiry Date	<u>22-Nov-06</u>
NOx Cal Gas Conc	<u>50.5</u> <small>ppm</small>	Cal Gas Serial #	<u>BAL786</u>

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	Data Slope	0.993332	0.993668	0.997664
	Data Offset	-0.048419	-0.315305	-0.243597
After	Data Slope	0.977371	0.998362	0.986487
	Data Offset	9.482548	-1.112757	-2.298205
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model Teco 42C Analyzer serial # 508011073

Test Point	before		after	
Concentration range	0-1000	ppb	0-1000	ppb
NO background	1.1	ppb	1.2	mV
NOx background	1.2	ppb	1.2	mV
NO coefficient	0.922		1.021	
NOx coefficient	1.005		0.934	
Chamber Temp	1.0	Deg C	49.4	Deg C
Cooler Temp	-2.0	Deg C	-2.0	Deg C
Converter Temp	323.0	Deg C	324.0	Deg C
Sample flow	835.0	LPM	813.0	LPM
Pressure	162.3	inches Hg	160.7	inches Hg
Box Temp	33.3	ccm	30.9	ccm

Notes: NO2 doesn't look pretty but may be caused by retained gas in calibrator.

No Zero Adjustment made (zero supplied by IZS)

Adjusted span NO and NOX

Calibration Report

Parameter **NO_x-NO-NO₂**
 Air Monitoring Network **PASZA**



Station Information

Calibration Date: August 19, 2005 Station Location: AG Canada Research Station

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	2496	0.00	0.0	0.0	0.0	-0.4	-0.4	-0.4	N/A	N/A
1	2496	39.97	795.9	792.8	3.2	797.7	804.0	-7.3	0.9977	0.9860
2	2496	19.98	401.0	399.4	1.6	403.1	410.1	-7.6	0.9949	0.9740
3	2496	9.99	201.3	200.5	0.8	204.6	207.4	-3.5	0.9840	0.9666
AFZ	2496	0.00	0.0	0.0	0.0	-0.4	-0.4	-0.4	0.0000	0.0000
AFS	2496	39.97	795.9	792.8	3.2	775.3	715.2	59.2	1.0267	1.1084
Average Correction Factor									0.9922	0.9755

As Found Concentrations: NO_x= 775.3 NO= 715.4 As Found Percent Change NO_x= -2.6% NO= -9.8%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 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	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	796.5	790.5	6.0	791.4	803.7	-13.3	1.0064	0.9836	N/A	N/A
300	796.5	573.3	223.2	804.9	583.5	220.9	0.9895	0.9825	1.0106	98.9%
200	796.5	657.0	139.5	802.9	668.3	134.0	0.9921	0.9830	1.0407	96.1%
100	796.5	726.6	69.9	788.9	738.9	49.4	1.0096	0.9834	1.4163	70.6%
Average Correction Factor							0.9970	0.9830	1.1559	88.5%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO	ppb	NO _x	NO ₂	NO	ppb
Auto zero	0.1	0.2	0.1	ppb	1.1	1.0	1.1	ppb
Auto span	243.8	15.5	228.6	ppb	236.4	1.9	239.6	ppb

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter NO₂
 Air Monitoring Network PASZA

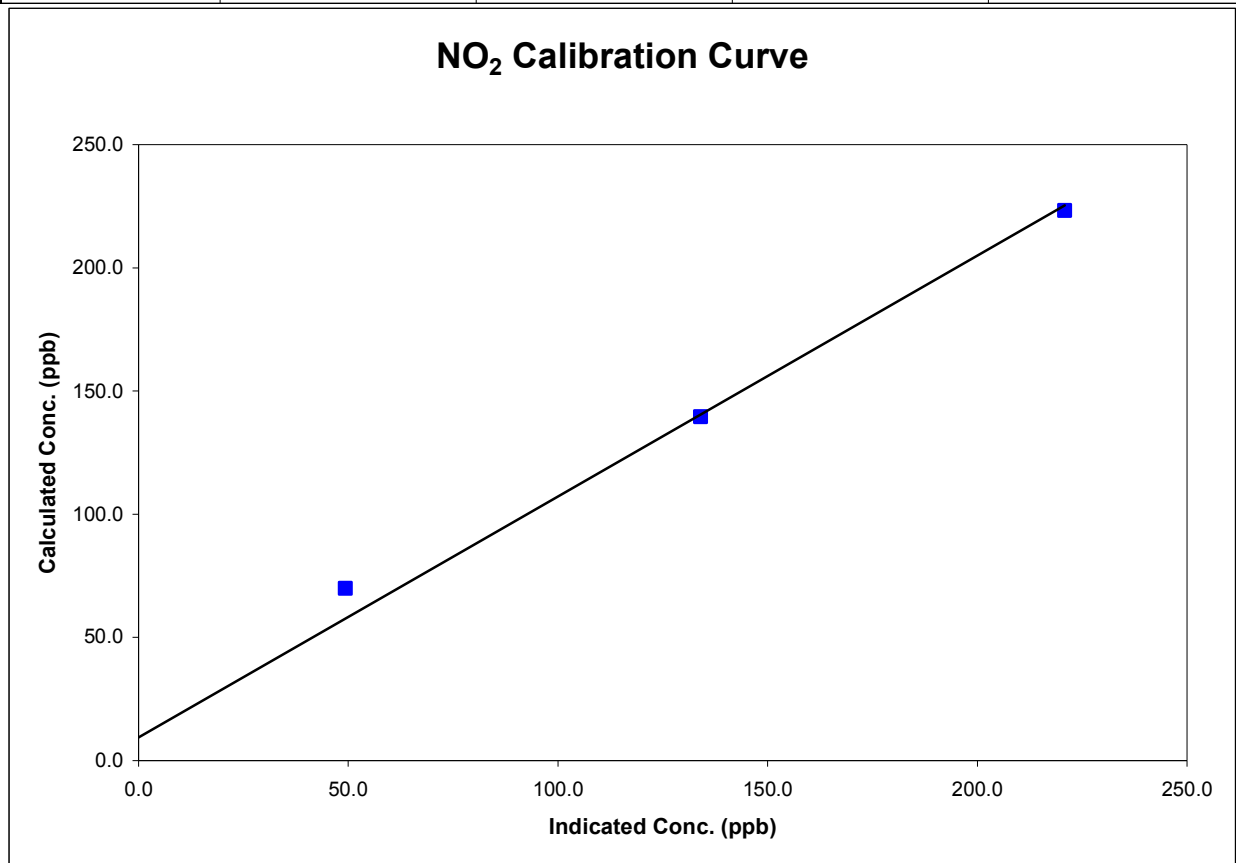


Station Information

Calibration Date	August 19, 2005	Previous Calibration	July 17, 2005
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	9:52	End Time (MST)	13:46
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.4	0.0000	Correlation Coefficient	0.991389
223.2	220.9	1.0106		
139.5	134.0	1.0407		
69.9	49.4	1.4163		
			Slope	0.977371
			Intercept	9.482548



Calibration Summary

Parameter NO_x
 Air Monitoring Network PASZA

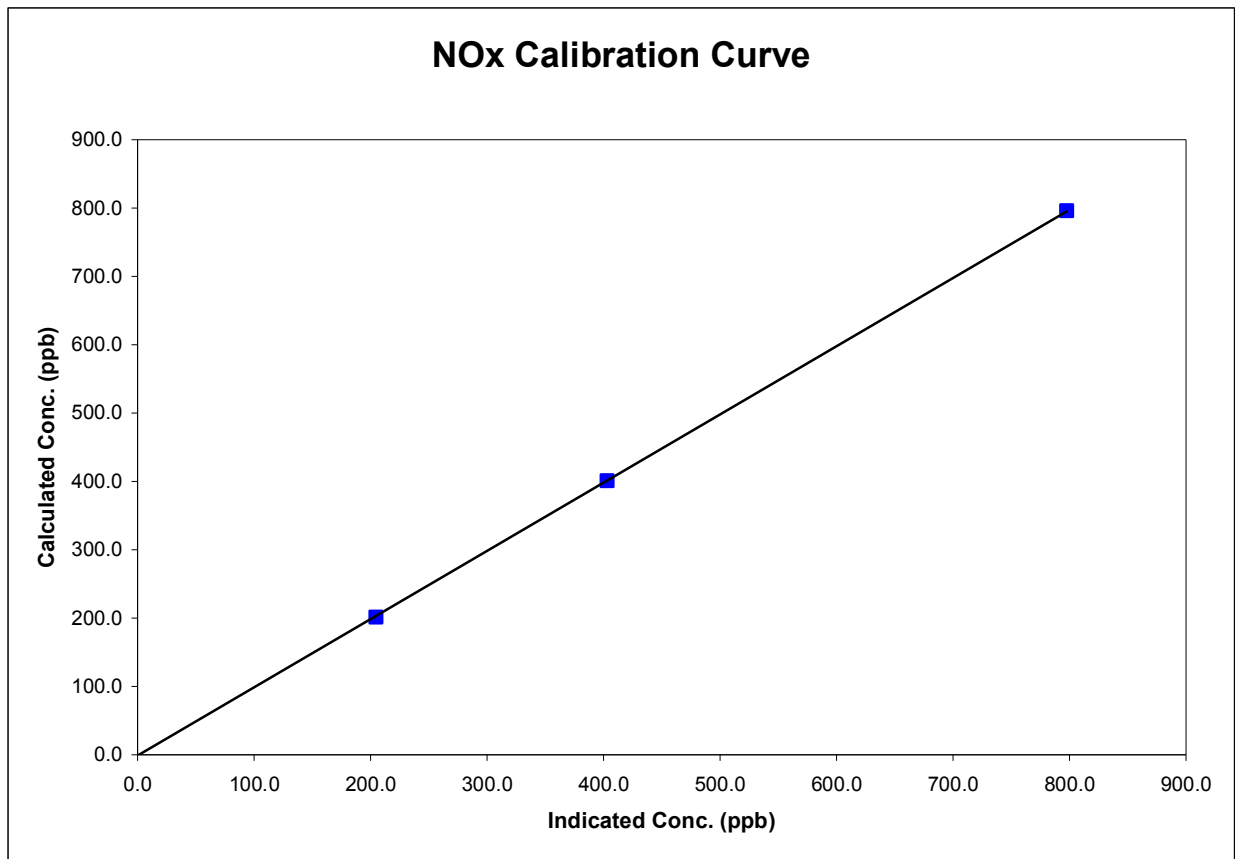


Station Information

Calibration Date	August 19, 2005	Previous Calibration	July 17, 2005
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	9:52	End Time (MST)	13:46
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.4	0.0000	Correlation Coefficient	0.999983
795.9	797.7	0.9977		
401.0	403.1	0.9949		
201.3	204.6	0.9840		
			Slope	0.998362
			Intercept	-1.112757



Calibration Summary

Parameter NO
 Air Monitoring Network PASZA

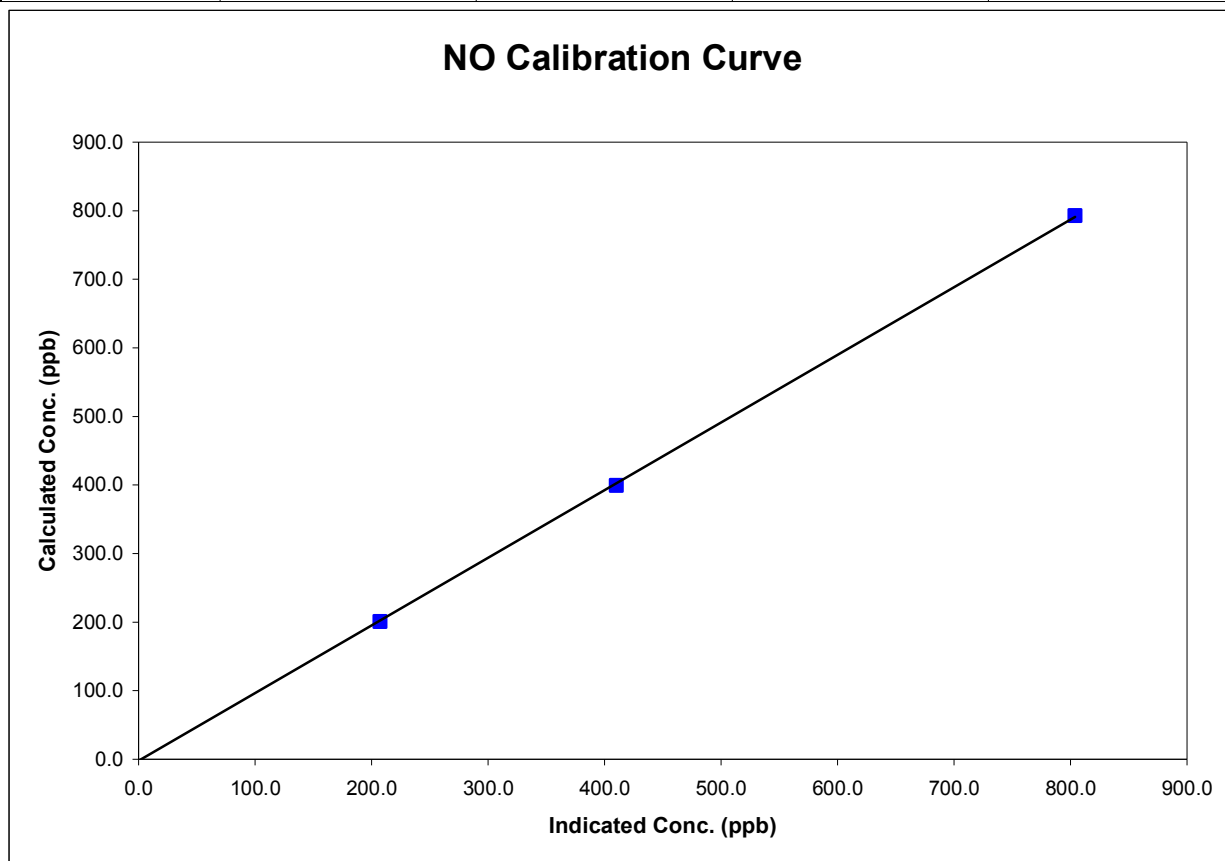


Station Information

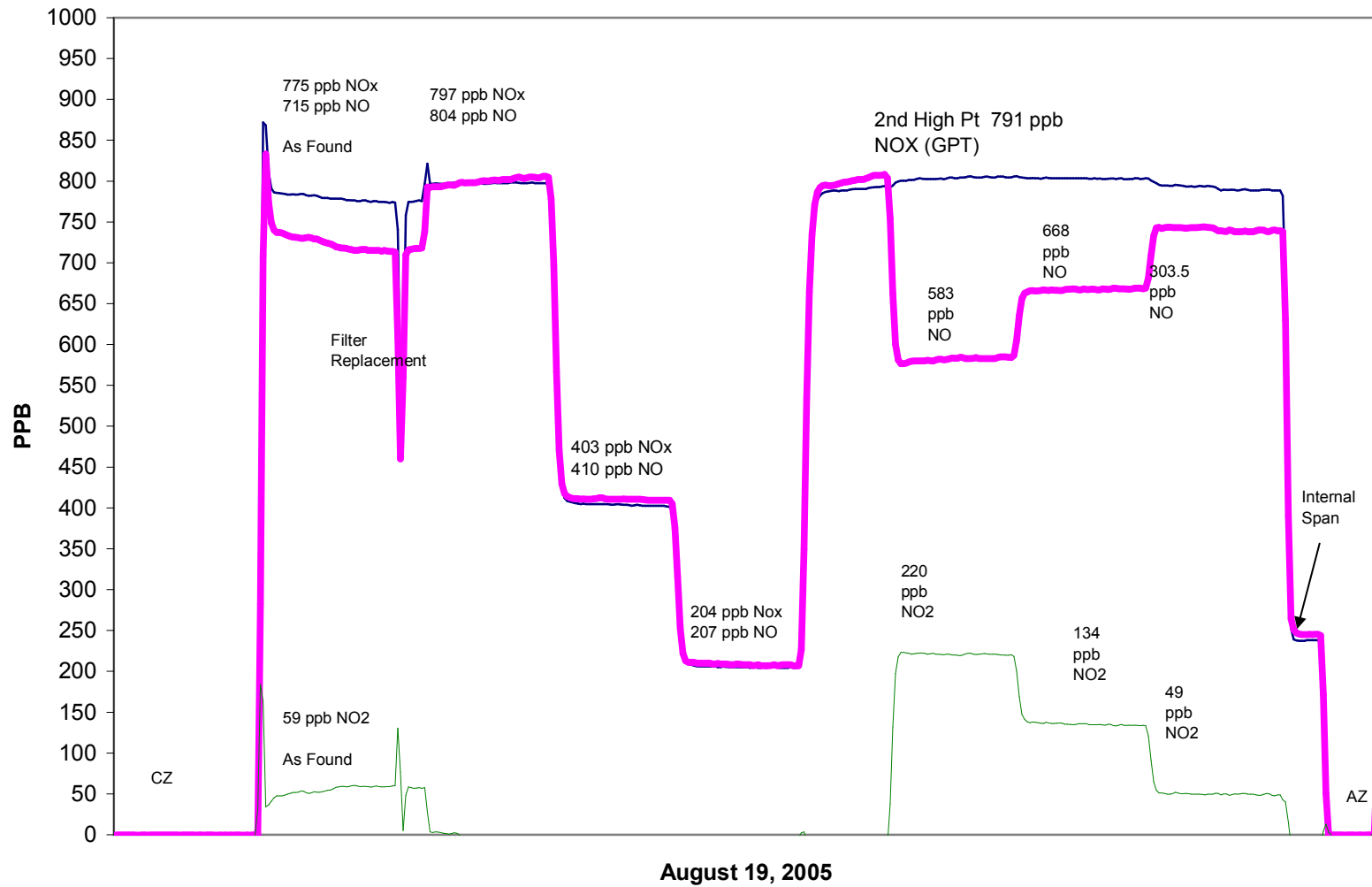
Calibration Date	August 19, 2005	Previous Calibration	July 17, 2005
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	9:52	End Time (MST)	13:46
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

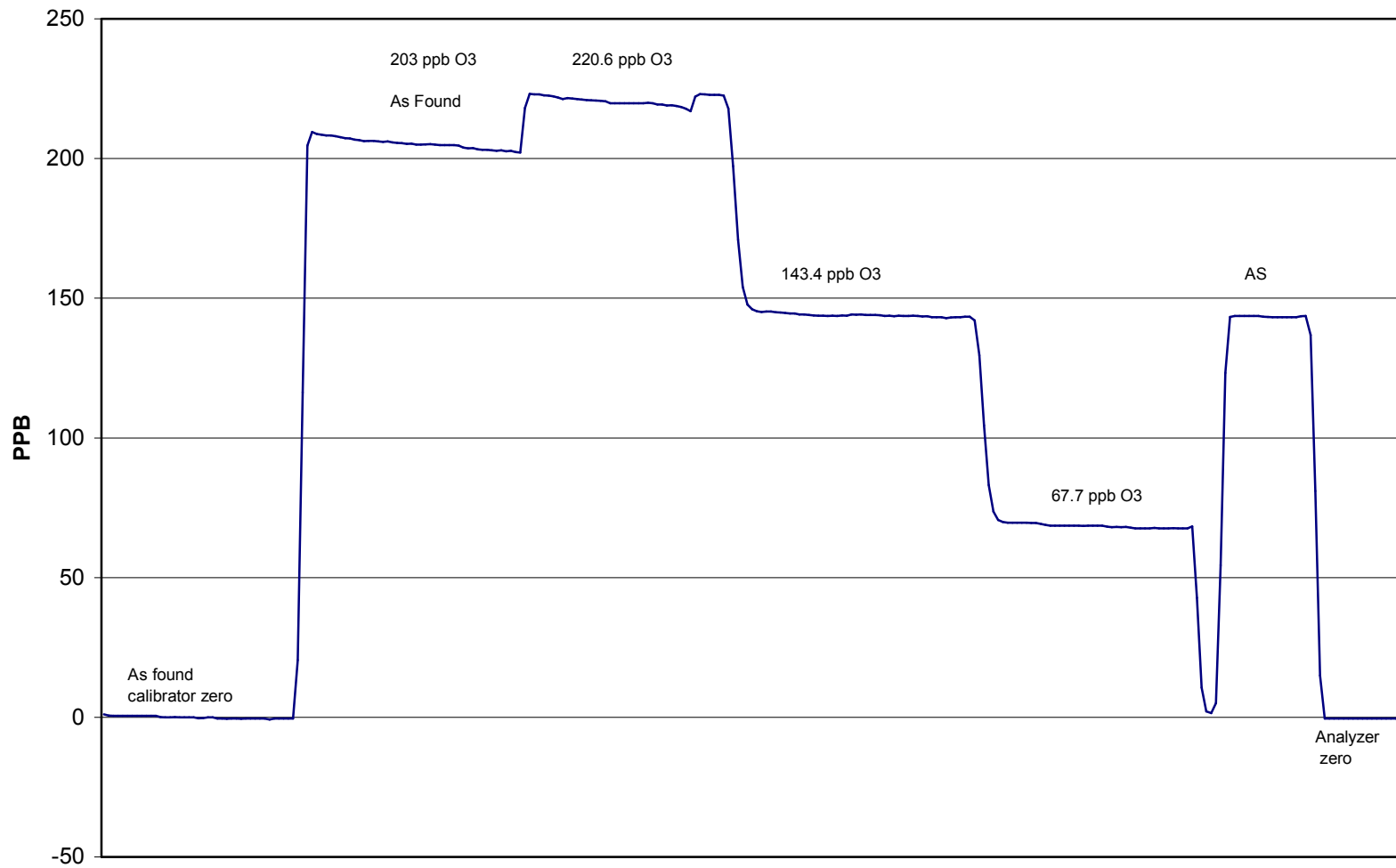
Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.4	N/A		
792.8	804.0	0.9860	Correlation Coefficient	0.999935
399.4	410.1	0.9740		
200.5	207.4	0.9666		
			Slope	0.986487
			Intercept	-2.298205



NOx Calibration



O3 Calibration



Calibration ReportParameter PM2.5

Air Monitoring Network

PASZA**Station Information**

Calibration Date	August 19, 2005	Previous Calibration	July 17, 2005
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	14:31	End Time (MST)	13:55
Barometric Pressure	0.911 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	10

Analyzer Information

Analyzer make	R&P	Control Unit serial #	140AB246340305
Analyzer model	TEOM 1400AB	Sensor Unit serial #	140AB246340305

	before		after	
Main Flow Set Point	2.990	SLPM	3.000	SLPM
Aux Flow Set Point	16.67	SLPM	13.67	SLPM
Filter Load	24	%	38	%
Ko Factor	14287		14287	
Temperature	24.0	Deg C	26.4	Deg C
Pressure	0.930	ATM	0.916	ATM

Calibration Data

Parameter	Set Point	Indicated Reading (measured externally)	Tolerance	TEOM Reading
zero flow - main	0.0	0.00		0.01
zero flow - auxillary	0.0	0.00		0.02
flow recovery - main	45 - 60 Seconds	na	45 - 60 Seconds	30
flow recovery - aux	46 - 60 Seconds	na	46 - 60 Seconds	50
Temperature	measured	26.7	+/- 1.0 Deg C	26.4
Pressure	measured	0.911	+/- 1.5% ΔATM	0.916
Total Flow	16.67 SLPM	16.06		
Main Flow	13.67 SLPM	13.56	+/- 1.0 SLPM	13.67
Auxillary Flow	3.0 SLPM	2.998	+/- 0.2 SLPM	3.000
Leak Check - main	0.0	0.00	<0.15 SLPM	-0.05
Leak Check - aux	0.0	0.00	<0.15 SLPM	0.05
Ko Factor (w/o filter)	measured		filter weight (g)	
Ko Factor (w/ filter)	measured		% Ko difference	N/A

Notes: cleaned headCalibration Performed By: Dawn Ewan