Air Quality Monitoring Network

May 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) – May Ambient Air Report

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

Continuous Monitoring: 3 Stations including Henry Pirker (Grande Prairie), Evergreen Park and Smoky Heights

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.

During the month of May a situation with the NO2 analyzer at the Henry Pirker Station was called in to Alberta Environment and assigned reference number 158459.The follow up letter is attached, which provides an explanation of the incident. Also at the Smoky Heights School site, the SO_2 and TRS analyzers zero span function was inadvertently disabled after the monthly calibration. This incident was assigned reference number 161198. The follow up letter is attached, which provides an explanation of the incident.

Passive Monitoring: 43 Stations throughout the PASZA zone:

There were no missing passives during the month of May. A summary of the passive data collected are reported as follows.

- Monthly average concentrations for SO_2 passives ranged from 0.1 ppb to 0.7 ppb.
- Monthly average concentrations for NO_2 passives ranged from 0.4 ppb to 4.6 ppb.
- Monthly average concentrations for O_3 passives ranged from 28.3 ppb to 45.5 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

May 26, 2005

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

ATTENTION: Director

RE: Air Monitoring Directive Contravention Report Ref # 158459

A contravention 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 contravention is that the NO2 analyzer no longer has the capability to perform remote zero and spans 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 contravention has been assigned AENV reference number 158459.

On May 18 the existing NO2 analyzer provided by Alberta Environment operating at the Henry Pirker station experienced an electronic short which caused the failure of electronic components on the main board. This was a fatal problem for the instrument. The analyzer was removed from service. A new analyzer was shipped to Grande Prairie from Alberta Environment's Edmonton facility on May 19 and was installed late that same day. A calibration was completed on May 20, but it was then discovered that the remote zero/span option was not installed in this instrument. The following action was taken:

- Alberta Environment will ship the remote option parts as soon as they are available. They will be installed and zero spans will be made functional.

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

Sincerely,

THE FOCUS CORPORATION

Gary Cross,
AQM Technical Manager

July 4, 2005

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

ATTENTION: Director

RE: Air Monitoring Directive Contravention Report Ref # 161198

A contravention 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 contravention is that the TRS and SO2 analyzers did not perform remote zero and spans at the Smoky Heights School Air Monitoring Station located NE of Grande Prairie, Alberta. The station is owned by PASZA and operated on their behalf by Focus. The contravention has been assigned AENV reference number 161198.

During the validation of data for the May monthly report, it was discovered that the zero span functions at the Smoky Heights station were disabled after the May monthly calibration. The function was inadvertently disabled during the calibration visit, but was not discovered as the communication to the site has not yet been established. The zero span function has been re-enabled and is functioning normally. The June calibration indicated little change (less than 5%) for both analyzers.

To prevent this from occurring in the future, cell modem systems have been ordered and will be installed as soon as they are received.

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

Sincerely,

THE FOCUS CORPORATION

Gary Cross,
AQM Technical Manager

PASZA Monthly Continuous Data Summary

May-2005	Peace Airshed Zone Assocation						Maximum Recorded Values						
							1-hr				24-hr / 8-hr		
Pollutant	Objectives		Station	Monthly	Exceedence		Conc	Day	WSPD	WDIR	Conc	Day	Operational
(units)	1-hr	24-hr		Average	1-hr	24-hr			(km/hr)	(Sector)			Time (%)
SO_2 (**ppb**)	172	57	Henry Pirker	0.5	0	0	5.9	May-18 18:00	12.6	ENE	1.6	May-18	99.9%
SO_2 (**ppb**)	172	57	Evergreen Park	0.8	0	0	11.9	May-27 08:00	13.1	W	2.1	May-24	100.0%
SO_2 (**ppb**)	172	57	Smoky Heights	0.3	0	0	8.1	May-21 05:00	16.5	WSW	1.2	May-12	99.9%
NO (**ppb**)			Henry Pirker	1.0	-	-	31.2	May-26 06:00	3.8	SSE	3.8	May-09	94.9%
NO_2 (**ppb**)	212	106	Henry Pirker	5.6	0	0	23.1	May-04 05:00	3.9	NW	9.3	May-04	94.9%
NO_X (**ppb**)			Henry Pirker	5.5	-	-	47.9	May-26 06:00	3.8	SSE	12.2	May-04	94.9%
O_3 (**ppb**)	82		Henry Pirker	32.7	0	-	58.7	May-29 17:00	15.9	E	48.6	May-29	100.0%
O_3 (**ppb**) - **8-hr**	65		Henry Pirker		0						56.2	May-29	
CO (**ppm**)	13		Henry Pirker	0.23	0	-	0.5	May-26 06:00	3.8	SSE	0.3	May-08	99.9%
CO (**ppm**) - **8-hr**	5		Henry Pirker		0						0.4	May-01	
THC (**ppm**)			Henry Pirker	2.00	-	-	2.9	May-05 02:00	4.9	NNE	2.1	May-08	99.9%
TRS (**ppb**)			Henry Pirker	0.2	-	-	1.3	May-04 01:00	4.6	SSW	0.6	May-04	99.6%
TRS (**ppb**)			Evergreen Park	0.5	-	-	1.2	May-27 08:00	13.1	W	0.7	May-23	100.0%
TRS (**ppb**)			Smoky Heights	0.5	-	-	7.7	May-31 18:00	9.7	NNE	3.8	May-31	100.0%
$PM_{2.5}$ (**µg/m^3**)		30 [a]	Henry Pirker	5.1	0	0	35.5	May-30 01:00	5.3	ESE	19.8	May-30	98.7%
$PM_{2.5}$ (**µg/m^3**)		30 [a]	Evergreen Park	4.4	0	0	37.1	May-30 07:00	18.5	SSE	13.9	May-30	98.9%
$PM_{2.5}$ (**µg/m^3**)		30 [a]	Smoky Heights	3.3	0	0	52.3	May-31 23:00	7.4	NNE	8.0	May-30	97.4%
RH (**%**)			Henry Pirker	56.4	-	-	-	-	-	-	-	-	100.0%
SR (**W/m^2**)			Henry Pirker	242.7	-	-	-	-	-	-	-	-	100.0%
Temp (**°C**)			Henry Pirker	12.4	-	-	-	-	-	-	-	-	100.0%
Temp (**°C**)			Evergreen Park	11.6	-	-	-	-	-	-	-	-	100.0%
Temp (**°C**)			Smoky Heights	10.1	-	-	-	-	-	-	-	-	100.0%
WSPD v (**km/hr**)			Henry Pirker	11.2	-	-	-	May-22 13:00	28.8	WSW	16.1	20-May	100.0%
WSPD v (**km/hr**)			Evergreen Park	14.4	-	-	-	May-22 13:00	48.0	SSE	23.3	24-May	100.0%
WSPD v (**km/hr**)			Smoky Heights	10.7	-	-	-	May-20 09:00	31.2	WSW	19.8	6-May	100.0%
WSPD s (**km/hr**)			Henry Pirker	10.5	-	-	-	May-22 13:00	28.5	WSW	15.7	20-May	100.0%
WSPD s (**km/hr**)			Evergreen Park	11.3	-	-	-	May-24 15:00	45.4	SSE	22.0	24-May	100.0%
WSPD s (**km/hr**)			Smoky Heights	10.1	-	-	-	May-20 09:00	30.9	WSW	19.4	6-May	100.0%
WDIR (**Deg**)			Henry Pirker	N	-	-	-	-	-	-	-	-	100.0%
WDIR (**Deg**)			Evergreen Park	N	-	-	-	-	-	-	-	-	100.0%
WDIR (**Deg**)			Smoky Heights	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

The sample manifold was cleaned on May 20 during the NO2 calibration, causing one hour of downtime for the other pollutant analyzers.

Parameter	Make	Model	Notes
SO_2	TECO	43	No operational problems observed
$NOx/NO/NO_2$	TECO	42	The existing analyzer encountered a fatal problem on May 18. The analyzer was removed from service, and a new one installed on May 19. The calibration was completed on May 20.
O_3	API	400	No operational problems observed
CO	TECO	48	No operational problems observed
THC	TEI	51-CLT	No operational problems observed
TRS	TEI	42C	No operational problems observed
$PM_{2.5}$	R&P	1400AB	10 hours were removed due to excessive 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

There were no general operational issues noted during the month.

Parameter	Make	Model	Notes
SO_2	API	100	No operational problems observed
TRS	TEI	42C	No operational problems observed
$PM_{2.5}$	R&P	1400AB	8 hours were removed due to excessive 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

There were no general operational issues noted during the month.

Parameter	Make	Model	Notes
SO_2	API	100A	No operational problems observed
TRS	TEI	42C	No operational problems observed
$PM_{2.5}$	R&P	1400AB	19 hours were removed due to excessive 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 - Henry Pirker Monthly Summary Tables, Graphs, and Roses

PASZA - Henry Pirker Sulphur Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO_2)

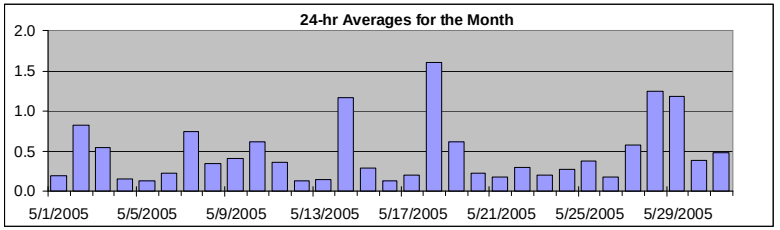
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2005 to June 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:	5.9	ppb	18-May	18:00 19:00
Maximum 24-hr Average:	1.6	ppb	18-May	



AIC Time:	33 hrs	Operational Time:	707 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average
	2.5	1.6	0.5	0.2	0.1	0.1	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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	0	0	0	0	0	0	0	0	1	0	0	A	0	0	0	2	0	0	0	0	0	0	0	0	0.2	1.6
2-May-05	0	0	0	0	0	1	1	1	1	2	A	2	1	1	1	1	1	1	1	1	1	1	0	0	0.8	1.9
3-May-05	0	1	1	1	1	0	1	1	1	A	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.5	1.4
4-May-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	0.2	0.3
5-May-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	0.3
6-May-05	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	0.6
7-May-05	0	1	1	0	0	A	1	1	2	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0.7	2.1
8-May-05	0	0	0	0	A	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.3	0.7
9-May-05	0	0	0	A	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.4	0.9
10-May-05	0	0	A	0	0	0	0	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0.6	1.3
11-May-05	1	A	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8
12-May-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	0.1	0.4
13-May-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	0.1	0.5
14-May-05	1	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	A	0	0	1.2	2.5
15-May-05	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	A	0	0	0	0.3	1.9
16-May-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.2
17-May-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.2	0.6
18-May-05	0	0	0	0	0	A	0	0	0	1	2	1	0	0	C	C	C	A	6	5	4	4	3	3	1.6	5.9
19-May-05	2	2	2	1	1	A	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	2.4
20-May-05	0	0	0	0	0	A	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
21-May-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	0.2	0.4
22-May-05	0	0	0	0	A	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.1
23-May-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	0.2	0.3
24-May-05	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
25-May-05	0	A	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0.4	0.7
26-May-05	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.7
27-May-05	0	0	0	0	0	1	1	3	2	1	1	1	1	0	0	0	0	0	0	0	0	0	A	0	0.6	2.8
28-May-05	0	0	0	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	1	1	1	A	1	1	1.2	2.2
29-May-05	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	A	1	1	0	1.2	1.9
30-May-05	1	1	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0.4	0.8
31-May-05	0	1	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	A	0	0	1	1	1	0.5	1.1
Hourly Avg	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.7	0.7	0.8	0.7	0.6	0.5	0.4	0.3	0.4	0.3	0.3	0.5	0.4	0.5	0.4	0.4	0.4		
Hourly Max	2.4	1.9	2.2	2.3	2.3	2.1	2.2	2.8	2.5	2.3	2.1	2.1	1.9	1.7	1.3	1.6	1.0	1.0	5.9	4.8	4.3	3.8	3.3	2.9		

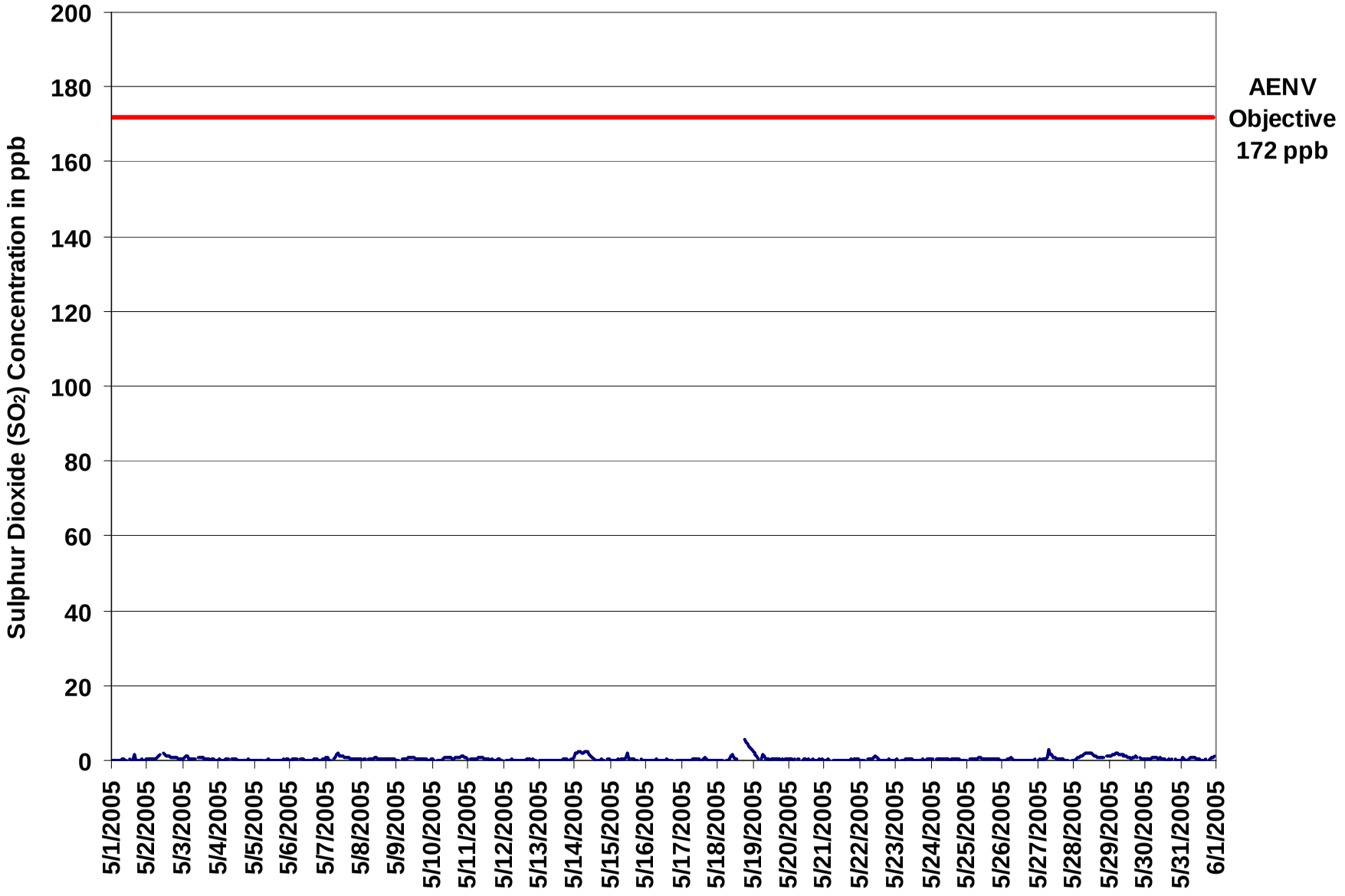


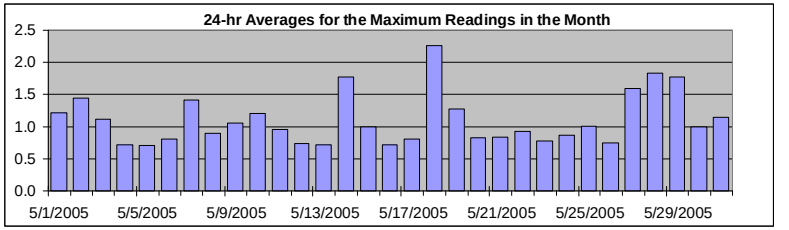
Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

HOURLY MAXIMUM TABLE

Sulphur Dioxide (SO_2)

Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Value:	13.3	ppb	1-May	15:00 16:00
Maximum 24-hr Value:	2.3	ppb	18-May	

AIC Time:	33 hrs	Operational Time:	707 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average
	3.9	2.4	1.2	0.8	0.7	0.6	0.5	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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	0	0	1	1	0	0	1	1	1	1	1	A	1	1	1	13	1	1	0	1	1	1	1	1	1.2	13.3
2-May-05	1	1	1	1	1	1	1	2	2	3	A	2	2	2	2	2	2	1	1	1	1	1	1	1	1.5	2.6
3-May-05	1	1	2	2	1	1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.9
4-May-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	0.7	1.0
5-May-05	1	0	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.2
6-May-05	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	0.8	1.7
7-May-05	1	1	2	1	1	A	1	2	3	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1.4	2.9
8-May-05	1	1	1	1	A	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.6
9-May-05	1	1	1	A	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.7
10-May-05	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	2	2	1	1.2	1.9
11-May-05	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1.0	1.4
12-May-05	A	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	1.1
13-May-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	0.7	1.0
14-May-05	2	3	3	3	3	3	3	3	3	3	2	2	1	1	1	1	1	1	1	1	1	A	1	1	1.8	3.1
15-May-05	1	1	1	1	1	1	1	1	1	1	2	4	1	1	1	1	1	1	1	1	A	1	1	1	1.0	3.8
16-May-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	A	1	1	1	1	0.7	0.9
17-May-05	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	0.8	1.7
18-May-05	1	1	1	1	1	A	1	1	1	2	2	2	1	1	C	C	C	A	7	5	5	5	4	3	2.3	6.6
19-May-05	3	2	2	2	1	A	1	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.3	3.0
20-May-05	1	1	1	1	1	A	1	1	N	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
21-May-05	1	1	1	1	1	A	1	1	1	1	1	0	1	1	1	1	1	1	2	1	1	1	1	1	0.8	1.8
22-May-05	1	1	1	1	A	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.8
23-May-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	0.8	1.2
24-May-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	0.9	1.1
25-May-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	1.5
26-May-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	0.8	1.4
27-May-05	1	1	1	1	1	1	1	9	6	2	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1.6	8.6
28-May-05	1	1	1	1	2	2	2	2	3	3	3	3	2	2	2	2	2	1	1	1	2	A	2	2	1.8	2.9
29-May-05	2	2	2	2	3	2	3	2	2	2	2	2	2	1	1	1	1	1	2	1	A	1	1	1	1.8	2.6
30-May-05	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	A	1	1	1	1	1.0	1.5
31-May-05	1	1	2	1	1	1	2	2	2	2	2	1	1	1	1	1	1	1	A	1	1	1	1	2	1.1	1.7
Hourly Avg	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.5	1.5	1.4	1.3	1.3	1.1	1.0	1.0	1.3	0.9	0.9	1.1	1.0	1.0	1.0	1.0	1.0		
Hourly Max	3.0	2.6	2.8	3.0	2.9	2.8	2.7	8.6	6.3	3.1	2.7	3.8	2.4	2.3	1.9	13.3	1.6	1.5	6.6	5.3	4.9	4.5	3.9	3.4		

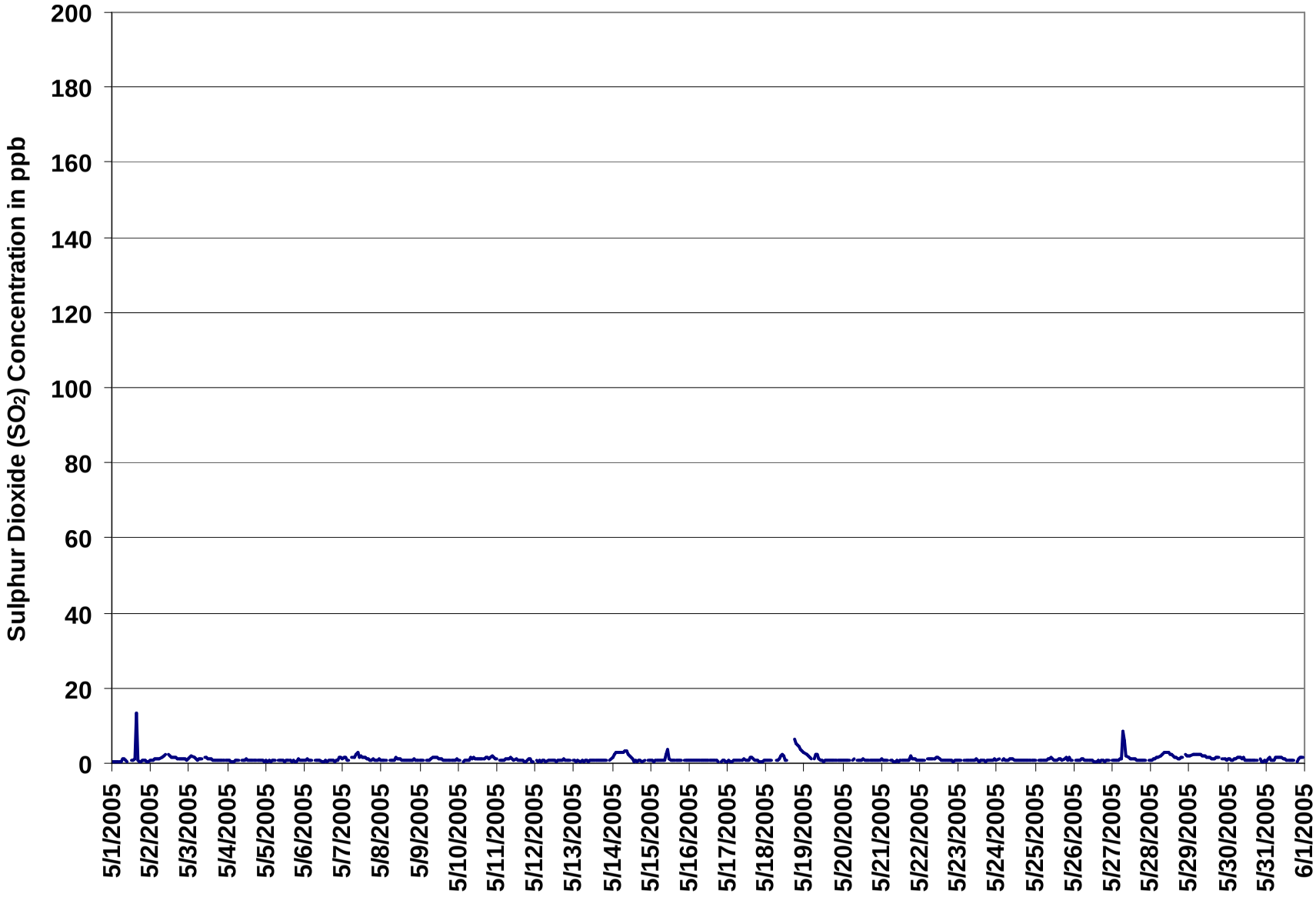
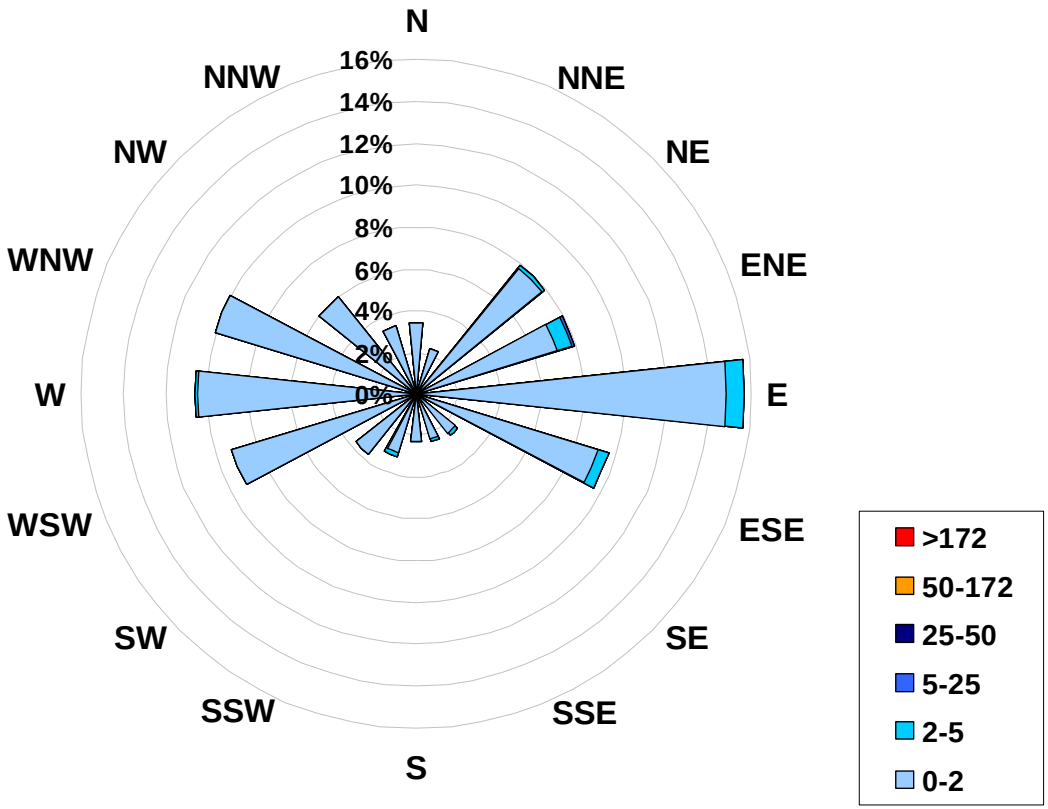


Figure 2. PASZA - Henry Pirker Sulphur Dioxide 1-hr Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of SO_2 in ppb			
Range			Frequency (hrs)
0.0	<	2	686
2	to	5	20
5	to	25	1
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			707

PASZA - Henry Pirker Nitrogen Dioxide Monthly Summary

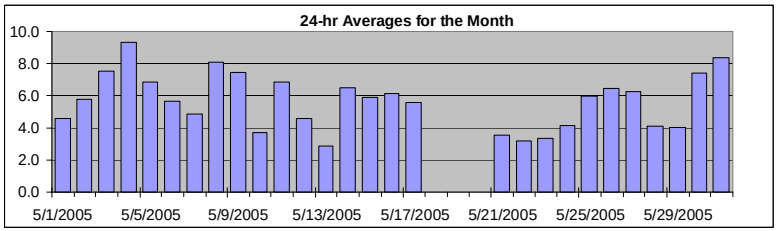
Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO_2)

Monitoring Dates: May 1, 2005 to June 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:	23.1	ppb	4-May	5:00 6:00
Maximum 24-hr Average:	9.3	ppb	4-May	

AIC Time:	19 hrs	Operational Time:	673 hrs
Calibration Time:	14 hrs	AMD Operational Uptime:	94.9%

Percentile	99	95	75	50	25	5	1	Average
	20.4	15.1	7.2	4.1	2.7	1.3	0.9	5.6 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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	7	8	7	5	6	9	8	4	2	2	1	A	2	1	2	5	2	2	2	4	8	7	6	6	4.6	8.8
2-May-05	5	5	6	6	9	13	13	7	5	4	A	4	3	3	2	3	3	3	5	8	11	6	4	5	5.8	13.1
3-May-05	6	7	6	5	2	5	23	23	16	A	3	4	3	4	2	3	3	3	4	5	7	10	12	17	7.5	22.8
4-May-05	14	12	11	13	15	23	19	16	A	6	5	2	2	1	1	1	1	1	1	6	21	18	13	11	9.3	23.1
5-May-05	17	13	23	13	11	8	9	A	12	6	3	2	2	1	2	2	2	3	3	6	7	5	4	4	6.9	23.0
6-May-05	2	2	2	2	2	2	A	4	4	4	5	5	5	4	7	10	12	9	13	9	10	8	5	4	5.7	12.6
7-May-05	4	4	4	3	4	A	5	6	5	5	4	3	2	2	3	2	2	2	2	4	9	12	10	14	4.9	14.1
8-May-05	12	15	16	15	A	12	11	11	10	8	4	3	2	2	2	1	1	1	1	4	8	10	17	22	8.1	22.1
9-May-05	15	13	8	A	13	18	20	16	16	5	4	4	3	3	4	3	4	3	3	3	4	4	3	3	7.5	19.6
10-May-05	3	2	A	3	3	5	6	5	4	3	2	3	3	3	2	2	3	3	3	3	6	6	7	4	3.7	6.8
11-May-05	3	A	3	4	5	11	14	13	12	7	10	7	6	6	7	5	3	2	3	6	8	10	8	5	6.9	13.9
12-May-05	A	8	5	5	6	16	15	7	5	4	3	2	2	1	1	1	2	2	4	4	4	3	2	A	4.6	16.2
13-May-05	2	2	2	1	3	4	5	4	2	2	2	2	2	2	2	2	3	3	3	4	6	5	A	4	2.9	5.9
14-May-05	3	5	5	6	6	8	7	8	10	14	17	14	9	4	3	2	1	2	3	3	4	A	12	7	6.5	16.7
15-May-05	6	10	10	13	9	13	9	10	8	8	5	4	1	1	1	1	2	2	3	5	A	4	5	5	5.9	13.3
16-May-05	8	9	9	10	11	15	10	9	6	4	3	2	1	2	1	2	2	3	2	A	5	8	11	8	6.1	14.7
17-May-05	10	8	7	7	3	9	18	13	3	C	C	5	8	3	1	3	1	1	1	3	4	5	6	4	5.6	17.6
18-May-05	3	4	2	1	1	A	0	0	0	C	C	C	C	C	C	C	C	S	S	S	S	S	S	S	N	4.1
19-May-05	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
20-May-05	S	S	S	S	S	S	S	C	C	C	C	3	3	2	2	3	3	3	3	3	8	7	8	6	N	8.1
21-May-05	4	4	4	4	4	5	3	2	2	1	1	1	1	1	2	2	1	1	2	3	7	11	11	10	3.6	10.6
22-May-05	5	6	5	4	5	4	5	4	2	2	2	2	2	2	1	1	1	1	1	2	4	6	5	5	3.2	5.8
23-May-05	3	4	4	3	4	6	6	4	3	3	2	4	3	1	2	3	2	1	1	3	2	6	7	4	3.4	6.6
24-May-05	4	6	3	4	6	9	7	3	2	2	3	2	3	6	4	4	4	4	5	5	5	4	3	4	4.1	9.0
25-May-05	6	9	11	9	7	10	8	7	5	3	2	2	1	1	2	2	2	2	3	5	14	18	7	7	5.9	18.2
26-May-05	7	5	5	9	16	16	17	11	3	2	2	2	1	1	2	2	2	2	3	5	7	11	14	A	6.4	17.4
27-May-05	16	10	7	5	5	9	13	15	7	5	3	3	2	2	3	3	4	3	4	5	8	8	7	5	6.3	16.3
28-May-05	4	5	4	4	4	5	6	4	4	4	3	4	3	3	3	3	3	3	3	4	6	6	5	4	4.1	6.2
29-May-05	3	4	4	4	4	5	4	3	3	3	3	3	3	3	3	3	4	4	4	5	8	6	6	5	4.0	7.5
30-May-05	5	7	14	14	17	19	20	15	8	4	3	2	3	2	2	2	3	4	5	4	6	6	4	7	7.4	20.3
31-May-05	5	4	9	9	12	21	20	13	15	6	8	6	4	4	5	5	7	8	7	8	6	5	7	8	8.4	20.9
Hourly Avg	6.6	6.7	7.0	6.5	6.9	10.4	10.8	8.4	6.2	4.5	3.9	3.5	3.0	2.5	2.6	2.8	2.9	2.8	3.4	4.5	7.1	7.7	7.4	6.9		
Hourly Max	17.4	14.5	23.0	14.6	17.2	23.1	22.7	22.8	16.4	13.9	16.7	14.5	9.2	5.8	7.3	9.5	12.1	8.8	12.6	9.1	20.7	18.2	17.2	22.1		

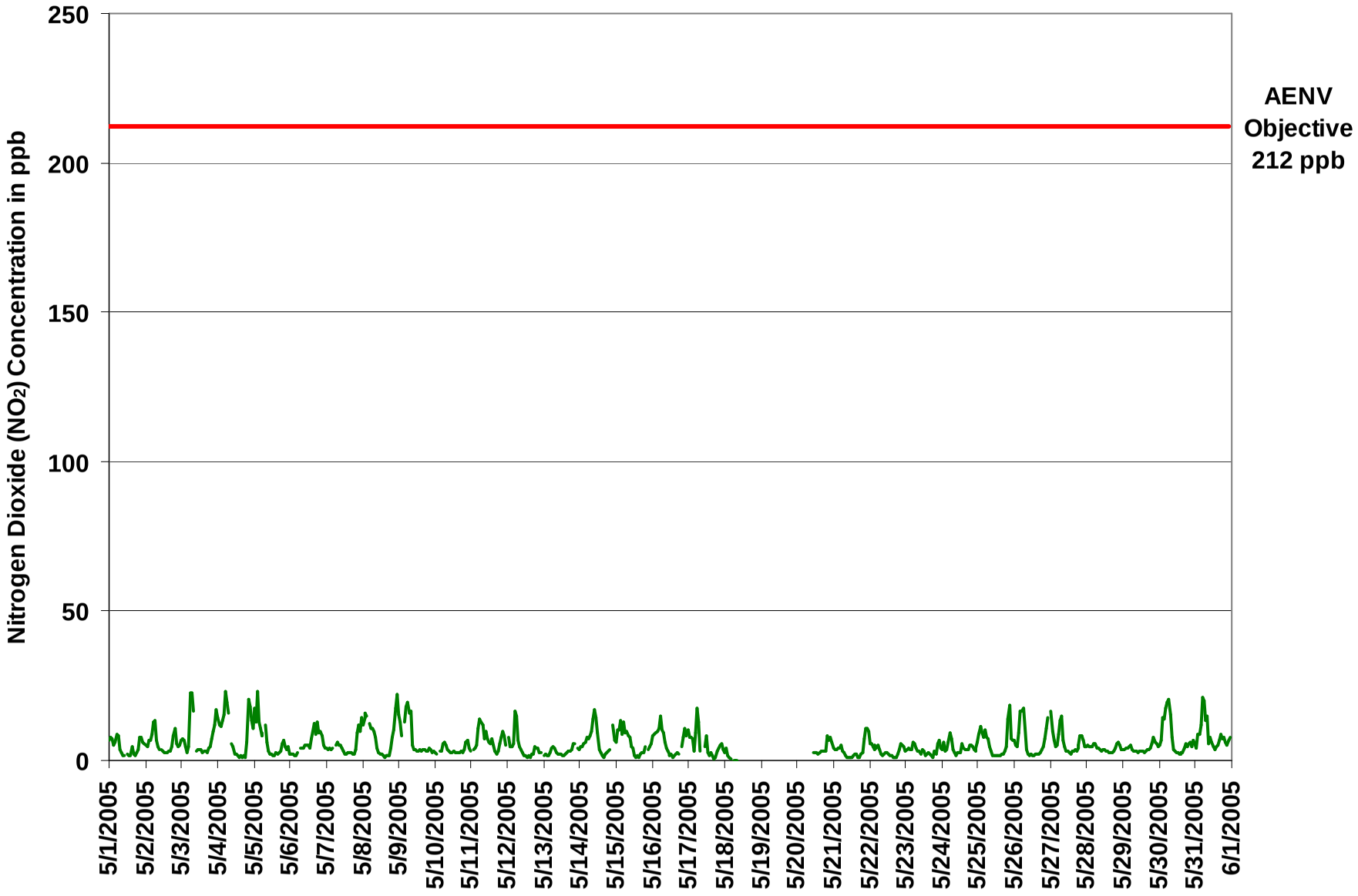


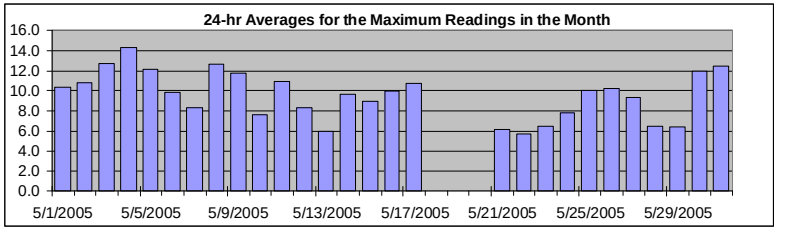
Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

HOURLY MAXIMUM TABLE

Nitrogen Dioxide (NO_2)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Value:	41.8	ppb	3-May	6:00 7:00
Maximum 24-hr Value:	14.3	ppb	4-May	

AIC Time:	19 hrs	Operational Time:	673 hrs
Calibration Time:	14 hrs	AMD Operational Uptime:	94.9%

Percentile	99	95	75	50	25	5	1	Average
	29.3	21.9	11.8	7.5	5.2	3.1	2.3	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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	9	15	17	15	15	17	14	5	4	6	3	A	4	5	3	36	4	3	5	7	20	13	9	8	10.3	35.7
2-May-05	7	7	9	10	12	20	21	15	9	6	A	7	7	6	7	10	8	8	12	17	18	10	11	10	10.8	20.8
3-May-05	10	12	11	13	5	9	42	35	25	A	6	6	7	6	5	6	7	10	8	8	11	12	16	24	12.7	41.8
4-May-05	29	14	13	18	25	28	23	24	A	9	6	3	4	5	2	4	4	3	3	21	30	22	20	17	14.3	29.6
5-May-05	29	20	30	25	17	19	19	A	20	10	5	5	6	4	4	5	6	6	7	12	12	7	5	7	12.2	30.0
6-May-05	3	5	4	4	4	6	A	7	8	8	9	9	10	8	15	18	18	15	21	12	14	13	7	8	9.8	21.2
7-May-05	8	5	6	7	9	A	7	9	9	12	10	5	4	4	4	5	5	4	5	7	17	15	16	18	8.3	18.3
8-May-05	17	18	21	18	A	15	15	15	15	11	10	4	4	4	7	2	3	10	7	11	11	18	25	28	12.7	27.9
9-May-05	25	15	12	A	15	23	23	22	23	8	7	22	5	5	9	6	7	5	5	5	8	9	4	5	11.8	25.0
10-May-05	6	6	A	11	9	10	17	9	8	6	4	7	7	9	5	5	5	5	6	6	8	8	14	7	7.6	16.9
11-May-05	5	A	6	7	9	17	22	19	17	11	15	10	8	9	12	10	6	4	5	10	10	19	11	9	10.8	22.4
12-May-05	A	18	7	6	7	24	19	12	7	6	6	6	5	2	4	4	7	5	10	7	7	7	6	A	8.3	24.3
13-May-05	4	7	9	3	11	13	7	6	5	5	4	5	3	3	4	4	5	5	6	6	9	7	A	7	6.0	12.9
14-May-05	5	6	5	9	8	11	10	10	13	17	22	20	16	7	4	3	4	8	7	5	5	A	17	11	9.6	21.9
15-May-05	10	14	14	16	10	17	12	12	10	13	9	8	3	3	4	3	4	9	4	9	A	8	7	9	8.9	16.6
16-May-05	10	14	12	11	16	20	17	17	10	7	6	7	3	6	4	4	4	6	4	A	8	12	18	14	9.9	20.3
17-May-05	16	14	14	11	7	18	22	19	6	C	C	13	15	7	4	5	10	4	7	8	8	8	10	6	10.7	21.6
18-May-05	5	9	4	3	2	A	5	2	1	C	C	C	C	C	C	C	C	S	S	S	S	S	S	S	N	8.7
19-May-05	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
20-May-05	S	S	S	S	S	S	S	C	C	C	C	5	6	6	5	5	6	7	8	5	15	9	12	8	N	15.4
21-May-05	5	6	5	7	6	10	4	5	3	3	2	3	3	5	7	4	3	3	5	5	10	17	14	14	6.2	16.6
22-May-05	10	9	7	6	16	5	7	5	3	3	3	3	4	4	3	2	3	2	3	4	9	9	8	7	5.7	16.3
23-May-05	8	8	12	4	6	9	8	7	5	5	4	8	9	3	5	5	4	3	2	6	4	15	10	6	6.5	15.3
24-May-05	5	11	5	7	10	13	12	9	5	3	10	7	5	12	7	6	7	9	9	8	7	6	5	6	7.8	12.9
25-May-05	10	14	16	15	11	14	11	10	8	12	4	3	4	3	4	4	5	5	10	9	22	27	14	10	10.0	27.1
26-May-05	12	11	9	20	20	19	21	16	6	4	4	4	3	4	5	6	4	7	7	8	9	14	23	A	10.2	22.8
27-May-05	23	14	10	7	7	13	19	22	12	7	6	5	4	4	7	5	6	5	6	9	11	10	9	6	9.4	22.7
28-May-05	6	7	8	7	6	8	8	6	7	6	5	6	6	4	7	4	5	6	6	6	10	8	8	6	6.5	9.7
29-May-05	7	6	5	7	9	9	5	4	4	5	4	5	5	6	4	5	6	5	6	7	12	8	9	7	6.3	12.4
30-May-05	7	19	17	19	23	22	27	30	12	7	5	4	5	4	5	7	5	10	10	6	9	15	8	10	12.0	30.5
31-May-05	8	5	13	12	20	27	24	20	19	8	13	10	7	7	8	8	11	12	14	10	10	12	12	12	12.4	26.5
Hourly Avg	10.7	10.9	10.7	10.6	11.3	15.4	15.8	13.4	9.8	7.5	7.0	7.1	5.8	5.3	5.6	6.7	5.9	6.4	7.1	8.4	11.6	12.1	11.7	10.4		
Hourly Max	29.4	19.8	30.0	24.9	25.0	27.9	41.8	34.9	25.3	16.9	21.9	22.0	15.5	11.8	15.5	35.7	17.8	14.7	21.2	21.0	29.6	27.1	25.0	27.9		

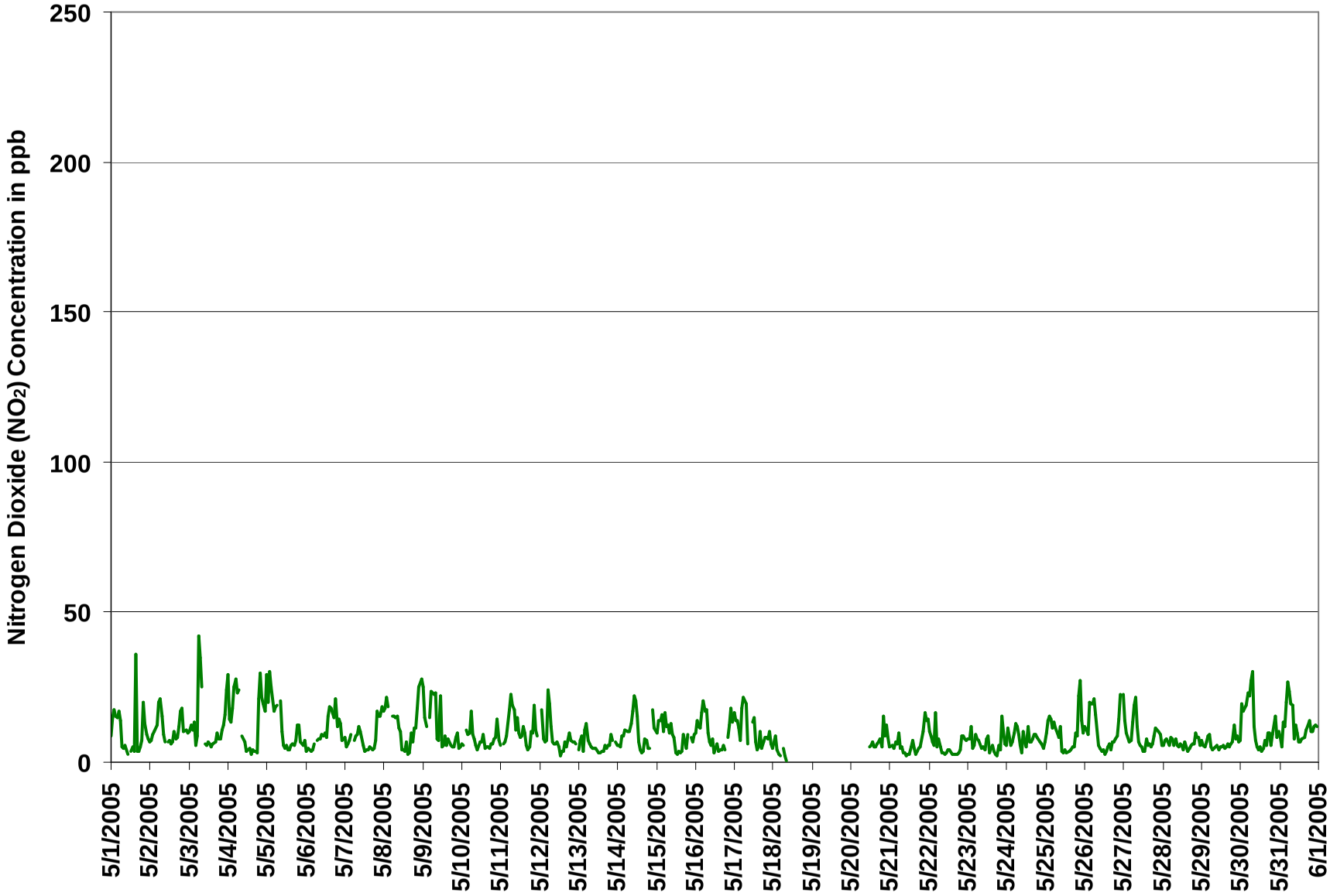
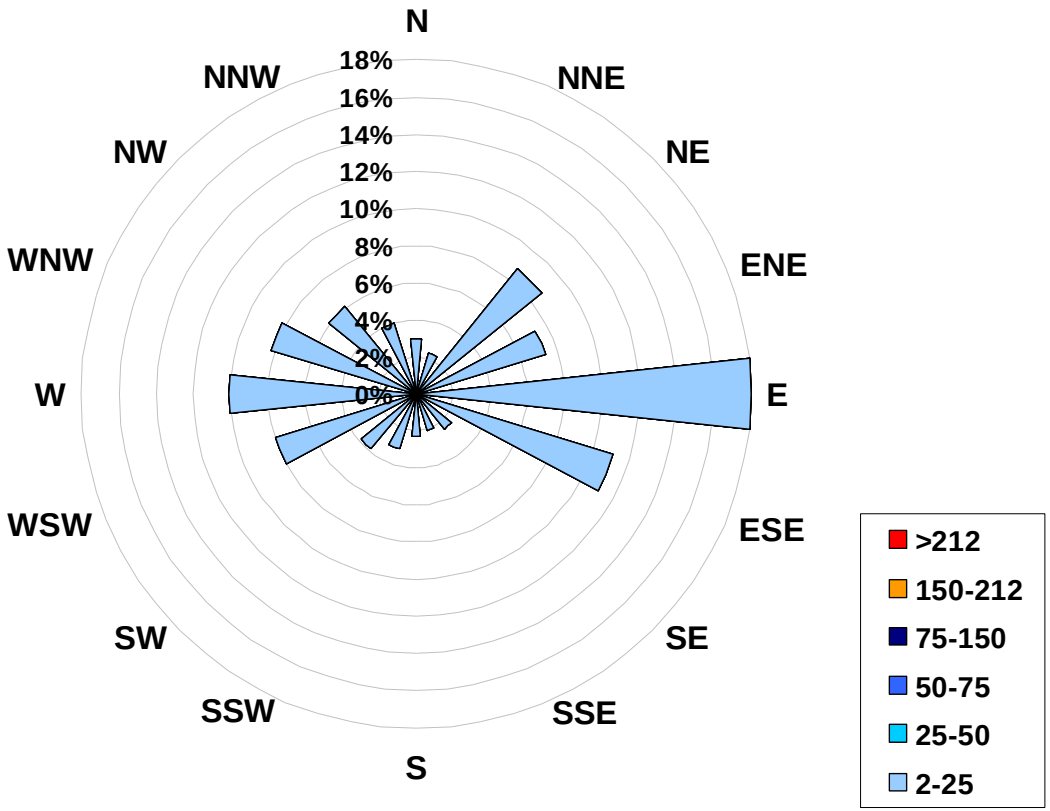


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of NO_2 in ppb			
Range			Frequency (hrs)
2.0	<	25	671
25	to	50	2
50	to	75	0
75	to	150	0
150	to	212	0
	>	212	0
Total Non-Zero Values			673

PASZA - Henry Pirker Nitric Oxide Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

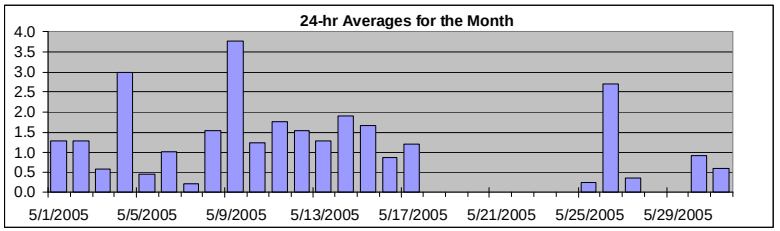
Nitric Oxide (NO)

Monitoring Dates: May 1, 2005 to June 1, 2005

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

Summary

Maximum 1-hr Average:	31.2	ppb	26-May	6:00 7:00
Maximum 24-hr Average:	3.8	ppb	9-May	



AIC Time:	19 hrs	Operational Time:	673 hrs
Calibration Time:	14 hrs	AMD Operational Uptime:	94.9%

Percentile	99	95	75	50	25	5	1	Average
	13.6	4.3	0.9	0.1	0.0	0.0	0.0	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**

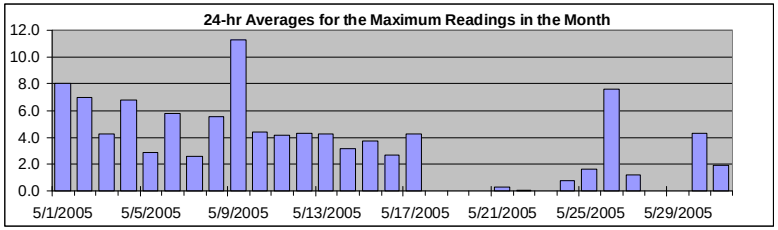
Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	0	1	1	2	2	3	3	2	1	1	1	A	1	1	1	3	1	1	1	1	1	1	1	1	1.3	3.0
2-May-05	1	1	1	1	1	4	5	3	3	2	A	1	1	0	0	0	1	1	1	1	1	0	1	0	1.3	5.1
3-May-05	0	0	0	0	0	0	4	2	3	A	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0.6	4.5
4-May-05	0	0	0	1	1	21	25	14	A	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3.0	25.1
5-May-05	1	0	0	0	1	1	0	A	2	1	1	0	1	0	0	1	1	0	0	1	0	0	0	0	0.5	1.9
6-May-05	0	0	0	0	0	1	A	1	1	1	2	2	1	1	2	1	3	2	2	1	1	0	0	0	1.0	2.8
7-May-05	0	0	0	0	0	A	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.4
8-May-05	0	0	3	0	A	2	5	7	12	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	12.0
9-May-05	0	1	1	A	2	12	20	20	14	2	1	3	1	1	2	1	1	1	1	1	1	1	0	0	3.8	20.3
10-May-05	0	1	A	1	1	3	2	2	1	2	1	2	2	2	1	1	1	1	1	1	1	0	1	0	1.2	2.7
11-May-05	0	A	0	0	1	1	3	6	7	4	5	2	2	2	1	1	1	0	1	1	1	0	0	0	1.8	6.7
12-May-05	A	0	0	0	1	6	11	4	3	2	1	0	0	0	0	0	1	1	1	1	1	0	0	A	1.5	10.8
13-May-05	0	0	0	1	1	3	3	3	2	2	1	2	1	1	1	2	2	2	1	1	1	0	A	1	1.3	2.9
14-May-05	1	1	0	1	1	1	2	3	5	9	9	7	2	1	1	0	0	0	0	0	0	A	0	0	1.9	8.9
15-May-05	0	1	1	2	1	8	5	6	5	3	2	1	0	0	0	1	1	1	1	1	A	0	0	0	1.7	8.0
16-May-05	0	1	0	1	1	4	2	2	1	1	1	1	1	1	1	1	1	1	0	A	0	0	0	0	0.9	3.9
17-May-05	0	0	0	0	0	1	4	5	0	C	C	0	0	0	0	0	4	4	3	3	1	1	0	0	1.2	4.9
18-May-05	0	0	0	0	0	A	2	2	0	C	C	C	C	C	C	C	C	S	S	S	S	S	S	S	N	2.4
19-May-05	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
20-May-05	S	S	S	S	S	S	S	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	N	0.0
21-May-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
22-May-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
23-May-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
24-May-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
25-May-05	0	0	0	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	3.5
26-May-05	0	0	0	0	3	24	31	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	2.7	31.2
27-May-05	0	0	0	0	0	0	2	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	6.6
28-May-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
29-May-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
30-May-05	0	0	0	0	0	3	10	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	10.2
31-May-05	0	0	0	0	0	0	5	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	5.4
Hourly Avg	0.1	0.2	0.3	0.4	0.6	3.6	5.3	3.9	2.3	1.4	1.1	0.8	0.5	0.4	0.4	0.4	0.6	0.5	0.5	0.4	0.3	0.2	0.1	0.1		
Hourly Max	0.6	0.9	2.6	1.8	3.5	23.7	31.2	20.1	13.7	8.6	8.9	6.9	2.3	1.8	1.7	3.0	4.1	3.6	3.1	2.9	1.5	1.0	0.7	0.7		

Station: Henry Pirker
Station Owner: PASZA

HOURLY MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Value:	63.3	ppb	26-May	5:00 6:00
Maximum 24-hr Value:	11.3	ppb	9-May	

AIC Time:	19 hrs	Operational Time:	673 hrs
Calibration Time:	14 hrs	AMD Operational Uptime:	94.9%

Percentile	99	95	75	50	25	5	1	Average
	39.9	14.0	4.1	1.3	0.0	0.0	0.0	3.6 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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	7	12	11	17	16	18	13	3	4	4	2	A	2	3	2	29	2	4	3	3	11	15	2	1	8.0	28.6
2-May-05	1	5	2	6	9	13	14	16	13	4	A	4	19	2	2	2	6	6	4	6	5	7	10	5	7.0	19.1
3-May-05	2	1	6	15	0	1	27	6	9	A	2	2	17	1	1	2	2	2	1	1	0	0	0	0	4.2	27.3
4-May-05	1	1	1	1	6	47	40	40	A	4	3	1	1	1	1	1	1	1	1	2	2	0	2	1	6.8	47.1
5-May-05	14	1	2	2	4	5	3	A	5	2	2	2	3	2	1	2	2	1	1	3	5	3	1	2	2.9	13.9
6-May-05	1	4	3	6	4	5	A	7	6	5	10	6	8	10	6	5	11	9	6	4	10	4	1	2	5.8	11.0
7-May-05	14	1	3	4	5	A	2	4	6	8	10	1	0	0	0	1	0	0	0	0	0	0	0	0	2.6	13.5
8-May-05	4	1	15	2	A	7	13	16	24	6	6	1	4	1	1	1	2	3	3	3	2	1	1	12	5.6	23.6
9-May-05	2	4	2	A	7	26	29	42	24	4	4	63	7	3	8	3	5	4	4	5	3	6	2	4	11.3	62.9
10-May-05	4	8	A	10	7	10	19	3	3	4	2	4	3	5	2	2	2	2	2	1	1	2	2	1	4.4	18.6
11-May-05	1	A	1	1	5	3	24	9	12	6	8	4	3	3	2	3	3	1	1	1	1	1	1	1	4.2	23.7
12-May-05	A	1	3	1	1	15	19	7	4	3	2	3	2	1	1	2	2	3	4	8	6	4	5	A	4.4	19.0
13-May-05	4	11	8	5	6	12	8	5	3	3	3	3	2	2	4	2	5	3	3	2	1	1	A	1	4.2	12.0
14-May-05	1	1	2	1	1	2	2	4	7	14	13	10	4	2	1	1	1	1	1	1	1	A	2	1	3.2	13.6
15-May-05	1	6	3	5	1	19	9	10	6	5	4	3	2	1	1	2	2	2	1	1	A	0	2	2	3.8	18.9
16-May-05	1	9	1	1	5	10	5	8	2	2	2	2	2	2	2	2	2	2	1	A	2	0	1	1	2.7	10.3
17-May-05	1	1	1	1	0	3	9	11	1	C	C	3	8	1	0	1	8	6	12	20	4	2	1	1	4.3	20.3
18-May-05	1	1	1	0	1	A	9	8	2	C	C	C	C	C	C	C	C	S	S	S	S	S	S	S	N	9.0
19-May-05	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
20-May-05	S	S	S	S	S	S	S	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	N	0.0
21-May-05	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	0	0	0.3	3.5
22-May-05	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	1.0
23-May-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
24-May-05	0	0	0	0	0	1	6	1	0	0	8	0	0	2	0	1	0	0	0	0	0	0	0	0	0.8	8.1
25-May-05	0	0	0	0	1	3	4	8	4	14	0	0	0	0	0	0	0	0	0	0	0	5	0	1	1.6	14.0
26-May-05	6	8	3	14	10	63	54	11	0	0	0	0	0	0	0	3	0	1	1	0	0	0	0	A	7.6	63.3
27-May-05	2	0	0	0	0	1	6	16	4	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1.2	15.6
28-May-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
29-May-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
30-May-05	0	6	0	3	6	11	33	43	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.3	42.7
31-May-05	0	0	0	0	0	4	14	9	7	1	7	1	0	0	0	0	0	2	0	0	0	2	0	0	1.9	13.9
Hourly Avg	2.4	2.9	2.4	3.4	3.4	10.5	12.9	10.2	5.2	3.5	3.4	4.0	3.0	1.4	1.3	2.2	1.9	1.8	1.7	2.2	1.9	2.0	1.1	1.3		
Hourly Max	13.9	11.5	14.6	16.7	15.8	63.3	53.8	42.7	23.8	14.0	12.6	62.9	19.1	9.6	7.5	28.6	11.0	9.3	11.6	20.3	10.6	15.0	9.5	12.4		

PASZA - Henry Pirker Oxides of Nitrogen Monthly Summary

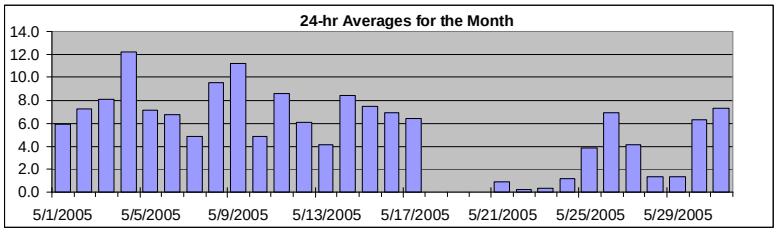
Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: May 1, 2005 to June 1, 2005

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



Summary

Maximum 1-hr Average:	47.9	ppb	26-May	6:00 7:00
Maximum 24-hr Average:	12.2	ppb	4-May	

AIC Time:	19 hrs	Operational Time:	673 hrs
Calibration Time:	14 hrs	AMD Operational Uptime:	94.9%

Percentile	99	95	75	50	25	5	1	Average
	30.1	18.4	7.2	3.7	1.3	0.0	0.0	5.5 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	7	9	8	7	8	12	11	5	4	3	2	A	3	2	2	8	3	3	4	5	9	8	7	6	5.9	11.7
2-May-05	6	6	7	8	10	17	19	11	8	6	A	6	5	3	3	3	4	4	6	9	12	6	5	5	7.2	18.6
3-May-05	6	7	7	5	2	5	27	24	19	A	4	5	5	4	3	3	4	3	4	5	7	10	11	17	8.1	27.2
4-May-05	14	12	12	14	17	44	44	30	A	8	6	2	2	1	1	2	1	1	1	6	21	18	13	10	12.2	44.4
5-May-05	18	12	23	13	11	9	10	A	14	8	4	2	3	1	1	3	3	3	3	6	7	5	4	5	7.2	23.2
6-May-05	2	2	2	2	2	3	A	6	5	6	7	7	7	6	9	11	15	11	15	10	10	8	5	4	6.7	15.1
7-May-05	4	4	4	3	4	A	6	7	7	7	4	3	2	2	2	2	2	1	2	3	9	11	9	13	4.9	13.3
8-May-05	11	14	18	15	A	14	16	18	22	12	5	3	2	2	1	1	1	1	1	4	8	10	17	22	9.5	22.1
9-May-05	16	13	9	A	14	30	40	36	30	7	5	6	4	4	5	4	5	5	4	4	5	4	3	3	11.2	40.0
10-May-05	3	3	A	4	4	8	9	7	5	5	4	4	5	4	4	4	4	4	3	4	6	7	7	5	4.9	8.6
11-May-05	3	A	4	5	6	12	17	19	19	11	15	9	9	8	9	7	4	2	3	6	8	10	8	5	8.6	18.8
12-May-05	A	8	5	5	6	22	26	10	8	5	3	2	2	1	2	2	3	3	5	5	5	3	2	A	6.1	25.7
13-May-05	2	2	2	2	4	7	8	7	4	4	4	4	3	2	3	4	5	4	4	5	7	6	A	5	4.1	7.9
14-May-05	4	5	5	6	7	9	9	11	15	23	26	21	11	4	3	2	1	2	3	3	4	A	12	7	8.4	25.7
15-May-05	6	11	11	15	9	21	14	16	13	11	7	6	2	1	2	2	3	3	3	5	A	3	4	5	7.5	20.7
16-May-05	8	9	9	10	12	19	13	12	8	5	4	3	2	3	2	2	3	3	2	A	5	7	11	8	7.0	18.7
17-May-05	10	8	8	7	3	10	22	18	1	C	C	2	8	1	0	1	6	5	4	6	6	6	6	4	6.4	22.0
18-May-05	3	5	2	1	1	A	3	1	0	C	C	C	C	C	C	C	C	S	S	S	S	S	S	S	N	4.6
19-May-05	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
20-May-05	S	S	S	S	S	S	S	C	C	C	C	0	0	0	0	0	0	0	0	0	4	2	3	1	N	4.0
21-May-05	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	6	5	0.9	6.3
22-May-05	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.3	1.3
23-May-05	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0.3	2.3
24-May-05	0	2	0	0	2	7	6	0	0	0	0	0	0	4	1	1	1	0	2	1	1	0	0	0	1.2	6.8
25-May-05	2	5	8	6	4	10	8	10	4	1	0	0	0	0	0	0	0	0	0	2	11	16	4	3	3.9	15.7
26-May-05	3	2	1	7	19	39	48	14	1	0	0	0	0	0	0	0	0	0	0	2	4	7	11	A	6.9	47.9
27-May-05	13	6	3	1	2	6	14	21	6	2	1	0	0	0	1	0	1	0	2	2	5	6	4	1	4.1	20.8
28-May-05	1	2	1	1	1	3	3	2	2	1	1	1	1	0	0	0	0	0	0	1	3	3	2	1	1.3	3.4
29-May-05	0	1	1	1	2	2	1	0	1	1	0	1	1	1	0	1	1	1	2	3	5	3	3	2	1.3	4.9
30-May-05	2	4	11	11	16	22	30	23	7	2	1	0	0	0	0	0	0	2	3	2	3	4	2	4	6.3	30.0
31-May-05	3	1	6	6	9	21	25	17	18	5	8	5	3	2	3	3	5	7	5	5	4	3	4	7	7.4	25.1
Hourly Avg	5.4	5.5	6.0	5.6	6.3	13.1	15.4	11.6	7.8	5.1	4.2	3.3	2.6	2.0	2.0	2.2	2.6	2.4	2.8	3.7	6.1	6.3	6.0	5.5		
Hourly Max	17.6	14.3	23.2	15.0	19.2	44.0	47.9	35.9	30.1	22.6	25.7	21.5	11.2	7.5	8.9	11.1	15.1	10.8	14.6	9.9	20.8	17.5	16.8	22.1		

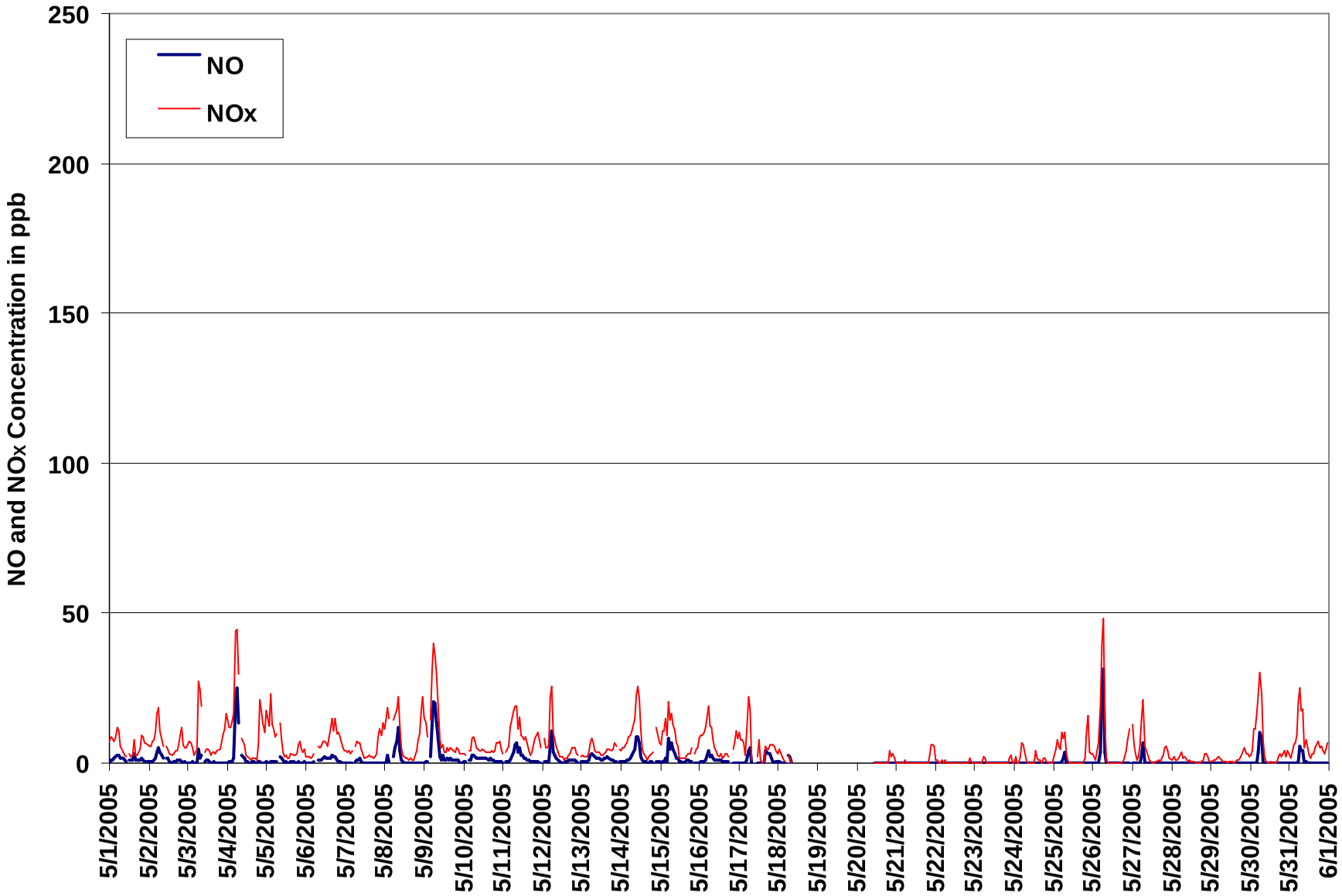


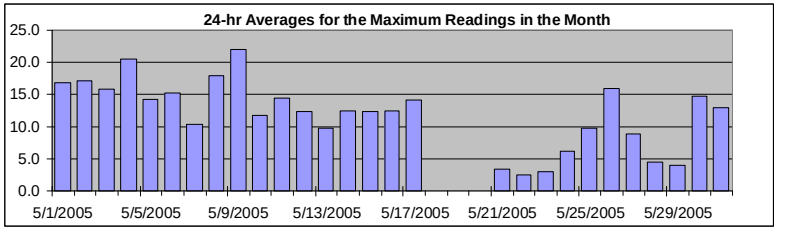
Figure 5. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

HOURLY MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Value:	80.9	ppb	26-May	5:00 6:00
Maximum 24-hr Value:	22.0	ppb	9-May	

AIC Time:	19 hrs	Operational Time:	673 hrs
Calibration Time:	14 hrs	AMD Operational Uptime:	94.9%

Percentile	99	95	75	50	25	5	1	Average
	62.7	31.4	14.8	8.2	4.6	0.9	0.0	11.7 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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	14	26	28	31	30	34	25	8	8	10	5	A	5	9	5	41	5	7	8	11	29	27	11	9	16.8	40.7
2-May-05	8	10	11	17	22	31	33	29	19	10	A	11	24	8	9	12	13	13	15	23	23	17	20	16	17.2	32.9
3-May-05	11	13	17	25	6	10	62	41	34	A	8	7	11	7	6	8	9	12	8	8	11	12	16	24	15.9	61.6
4-May-05	30	14	13	19	31	67	63	63	A	13	9	4	5	5	3	5	5	4	4	23	31	22	20	17	20.5	67.1
5-May-05	40	20	31	25	19	22	20	A	25	12	7	6	9	5	5	7	8	6	8	16	13	10	6	8	14.3	39.9
6-May-05	4	9	8	9	8	12	A	14	14	13	19	15	18	14	22	23	27	21	27	15	22	16	7	10	15.1	27.1
7-May-05	20	6	7	12	14	A	8	12	15	16	21	6	4	4	4	5	5	4	4	7	17	15	15	17	10.4	20.5
8-May-05	21	20	34	21	A	23	27	31	39	18	16	5	7	4	8	3	5	13	10	14	12	19	24	39	17.9	39.3
9-May-05	26	17	14	A	21	48	52	64	47	12	12	66	12	8	13	9	11	10	8	10	12	16	6	9	22.0	65.8
10-May-05	11	12	A	21	16	19	36	13	10	9	7	11	10	14	7	7	8	6	8	7	8	9	15	8	11.8	35.7
11-May-05	6	A	7	7	12	21	42	28	26	16	24	13	12	12	14	13	8	5	5	10	10	20	10	9	14.4	42.4
12-May-05	A	18	9	7	7	39	36	19	11	10	9	10	6	2	4	5	9	6	13	15	11	11	12	A	12.4	39.1
13-May-05	7	18	17	8	15	25	14	11	9	7	8	8	5	4	7	6	9	7	8	7	10	7	A	8	9.8	25.2
14-May-05	6	7	7	10	9	12	12	14	20	30	33	30	19	8	5	4	5	8	8	5	5	A	18	12	12.4	32.8
15-May-05	10	20	16	20	11	34	20	22	16	18	14	11	4	3	4	4	5	12	5	10	A	8	8	9	12.3	33.7
16-May-05	9	23	12	13	20	30	21	26	12	8	7	9	5	7	5	6	5	8	5	A	10	12	18	14	12.4	30.4
17-May-05	17	15	15	11	7	22	30	30	7	C	C	16	23	7	3	6	15	11	18	22	11	9	11	7	14.1	30.2
18-May-05	5	9	4	2	2	A	13	7	1	C	C	C	C	C	C	C	C	S	S	S	S	S	S	S	N	12.9
19-May-05	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
20-May-05	S	S	S	S	S	S	S	C	C	C	C	2	3	5	3	2	3	4	5	1	13	4	8	4	N	12.6
21-May-05	1	1	0	2	2	12	1	2	0	0	0	0	0	2	5	1	0	0	3	5	7	19	11	11	3.5	18.9
22-May-05	10	5	2	3	15	1	4	1	0	0	0	0	0	1	0	0	0	0	0	0	6	6	3	3	2.5	14.9
23-May-05	4	4	7	0	2	6	4	4	2	3	1	5	7	0	2	2	0	0	0	2	0	11	6	2	3.1	11.4
24-May-05	1	8	2	3	7	13	17	10	4	1	16	5	3	14	5	6	6	7	7	5	4	2	1	2	6.2	17.4
25-May-05	6	12	14	13	11	15	14	16	11	23	1	0	2	0	2	1	3	3	8	8	19	32	10	8	9.7	31.6
26-May-05	17	17	10	33	27	81	73	26	5	3	1	2	0	2	4	9	3	7	5	4	6	12	21	A	16.0	80.9
27-May-05	23	11	6	4	5	13	24	36	15	5	4	3	2	2	7	5	5	3	7	7	9	8	6	3	8.8	36.4
28-May-05	3	4	6	4	3	7	6	4	7	4	4	5	4	2	5	1	2	4	5	5	7	6	6	3	4.5	7.4
29-May-05	5	3	2	4	6	7	3	2	2	4	2	3	3	4	2	4	4	3	4	4	10	5	6	4	4.1	10.2
30-May-05	5	25	15	21	28	32	59	73	14	6	3	3	4	2	3	6	3	8	8	4	7	15	5	8	14.8	72.7
31-May-05	5	2	11	10	19	29	37	28	25	7	17	10	6	6	7	7	10	13	12	8	8	13	10	11	13.0	37.4
Hourly Avg	11.6	12.6	11.5	12.6	13.4	24.7	27.0	22.7	14.2	9.9	9.5	9.5	7.3	5.6	5.8	7.2	6.7	7.1	7.9	9.1	11.9	13.0	11.1	10.2		
Hourly Max	39.9	26.2	33.6	33.1	31.4	80.9	72.7	72.7	46.8	29.7	32.8	65.8	23.5	14.3	21.9	40.7	27.1	21.1	26.9	22.8	31.3	31.6	24.2	38.9		

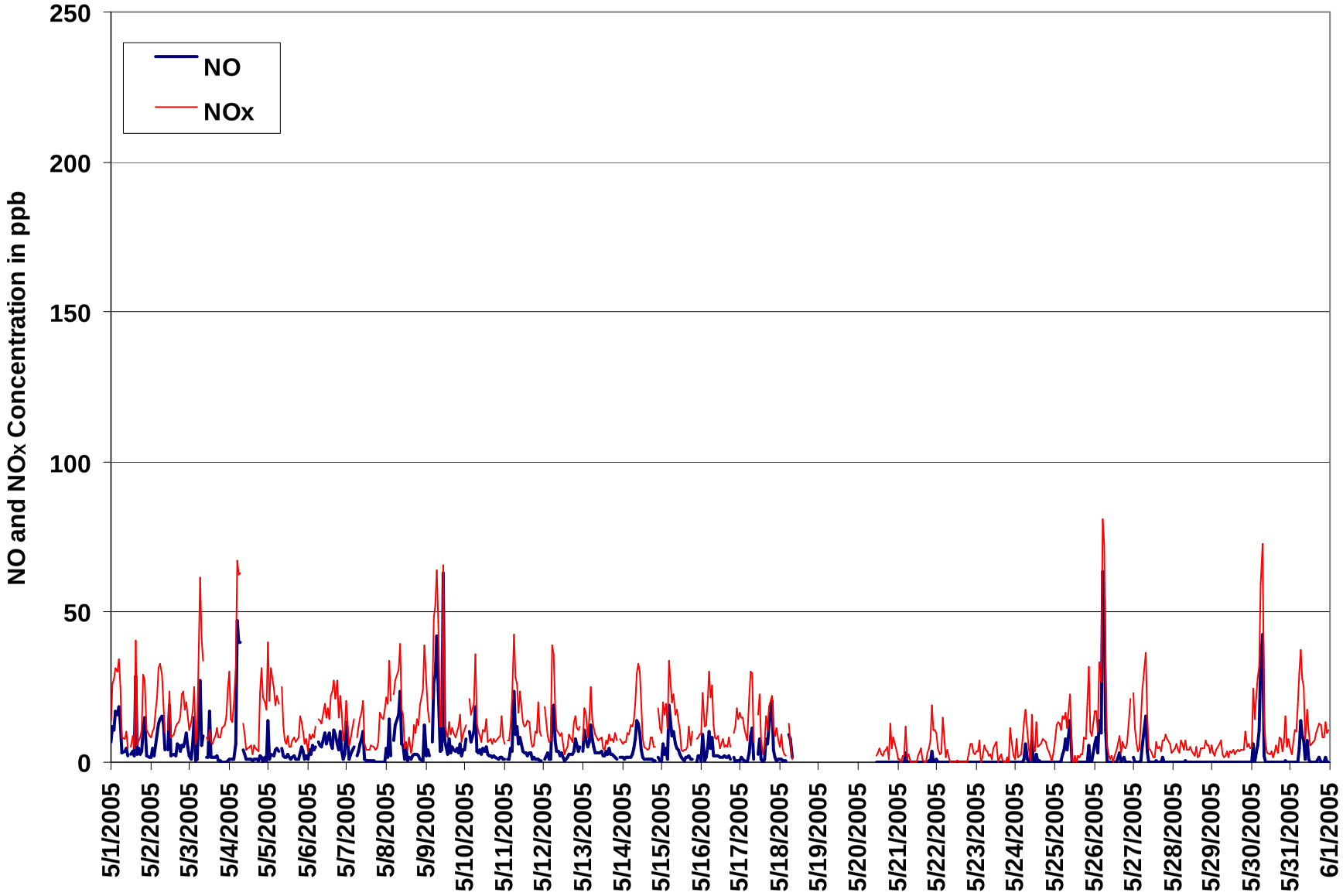


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Maximum Value Monthly Trend

PASZA - Henry Pirker Ozone Monthly Summary

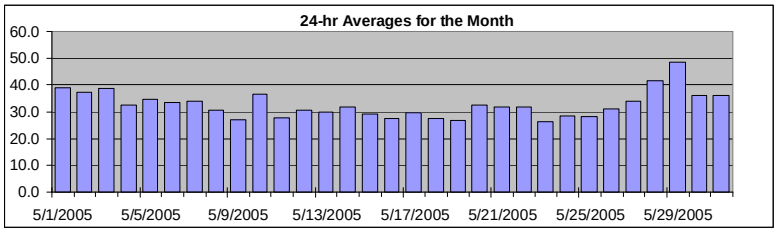
HOURLY AVERAGE TABLE

Ozone (O_3)

Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2005 to June 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:	58.7	ppb	29-May	17:00 18:00
Maximum 24-hr Average:	48.6	ppb	29-May	

AIC Time:	34 hrs	Operational Time:	705 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	54.3	50.9	41.3	33.7	25.1	9.3	4.5	32.7 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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	37	35	34	36	33	27	27	34	36	41	46	A	48	48	46	49	46	47	46	43	40	35	33	30	39.0	49.2
2-May-05	29	29	25	25	22	20	19	26	28	32	A	39	45	50	51	52	52	52	51	47	39	41	41	37	37.1	52.2
3-May-05	33	31	27	31	42	40	24	24	27	A	50	52	54	53	46	49	48	48	46	45	39	33	28	16	38.6	54.0
4-May-05	17	18	15	13	8	1	3	15	A	33	36	44	47	50	51	51	53	53	53	48	32	33	37	37	32.6	53.3
5-May-05	21	21	8	14	19	26	34	A	31	37	42	42	44	46	46	47	47	45	44	39	38	38	38	37	34.9	47.1
6-May-05	39	37	37	39	40	38	A	37	34	33	33	32	32	35	32	30	25	30	25	29	29	31	36	38	33.5	40.0
7-May-05	37	34	34	34	33	A	30	29	31	31	33	35	38	38	38	41	41	43	42	40	32	24	26	20	34.1	43.1
8-May-05	18	10	5	5	A	8	8	11	11	27	42	46	49	50	50	51	51	53	53	50	38	34	26	14	30.8	53.2
9-May-05	9	5	6	A	6	3	5	9	16	34	40	41	42	42	41	41	38	38	38	37	34	33	32	30	26.9	42.3
10-May-05	32	36	A	34	33	30	30	31	34	35	38	39	40	41	42	42	43	43	43	41	37	34	31	32	36.5	43.2
11-May-05	33	A	32	29	28	21	19	19	20	24	24	26	28	30	28	32	36	38	35	31	26	25	29	27	27.8	38.3
12-May-05	A	20	21	21	21	11	9	21	25	29	35	40	42	44	45	45	44	44	40	35	31	28	28	A	30.9	45.4
13-May-05	27	25	26	26	25	23	23	26	26	26	28	29	31	33	34	35	35	36	37	37	35	34	A	34	30.1	37.2
14-May-05	34	33	32	30	29	27	27	27	25	23	24	27	32	36	40	43	45	42	39	39	34	A	20	23	31.8	44.6
15-May-05	19	10	7	3	8	3	8	14	21	26	33	41	45	46	47	49	49	48	48	45	A	39	32	31	29.2	48.9
16-May-05	21	18	16	11	8	6	11	16	22	29	35	38	42	42	42	42	43	41	41	A	35	30	22	24	27.5	42.7
17-May-05	20	24	22	20	27	17	9	14	30	30	29	27	28	39	43	42	41	41	41	40	36	33	29	31	29.7	43.4
18-May-05	32	26	24	20	16	A	10	12	17	23	27	30	36	36	37	A	38	37	36	34	29	27	28	27	27.3	38.3
19-May-05	24	21	14	15	19	A	8	9	19	29	34	39	41	42	40	36	34	38	40	C	C	A	18	14	26.7	42.0
20-May-05	23	29	26	27	19	A	21	C	C	C	39	39	39	40	41	40	40	40	41	40	28	29	26	24	32.5	40.9
21-May-05	26	26	25	24	24	A	27	29	32	35	37	38	39	39	39	39	41	42	38	37	31	24	22	21	31.9	41.5
22-May-05	22	22	24	25	A	25	25	28	30	32	32	32	37	41	41	40	41	43	44	40	30	28	26	23	31.7	43.7
23-May-05	25	21	23	A	26	20	17	17	17	19	24	27	28	31	33	35	36	36	36	33	31	25	22	24	26.4	35.9
24-May-05	24	20	A	18	12	8	12	20	23	29	36	36	30	30	32	30	37	40	42	41	33	38	35	29	28.5	41.6
25-May-05	21	A	10	10	9	9	13	14	23	30	41	41	41	41	42	44	45	46	43	37	24	13	28	25	28.3	45.5
26-May-05	A	24	24	16	2	1	7	19	31	36	39	41	44	46	47	45	45	44	41	39	34	31	25	A	30.9	46.6
27-May-05	21	30	33	33	30	22	17	17	31	37	40	42	45	45	44	44	42	41	40	37	31	28	A	31	33.9	45.0
28-May-05	30	29	29	29	30	30	30	34	35	40	44	49	53	54	52	51	51	50	50	48	46	A	48	47	41.6	54.2
29-May-05	45	44	43	42	41	42	44	45	45	47	49	50	53	55	56	55	56	59	58	55	A	47	43	44	48.6	58.7
30-May-05	42	35	13	9	8	8	11	18	30	39	45	48	49	50	51	52	54	54	46	A	43	43	42	38	36.0	54.3
31-May-05	40	42	32	28	21	8	6	13	15	27	36	45	53	53	50	52	52	49	A	44	44	45	42	38	36.3	53.2
Hourly Avg	27.7	26.0	23.1	23.0	22.1	18.2	17.8	21.6	26.3	31.4	36.4	38.5	41.3	42.8	42.8	43.4	43.5	43.9	42.5	40.4	34.2	32.2	30.7	29.1		
Hourly Max	45.4	43.8	42.5	42.0	42.3	41.8	43.7	44.8	45.1	47.0	49.5	52.1	54.0	55.2	55.7	55.0	56.0	58.7	58.4	54.5	45.8	47.1	47.9	46.9		

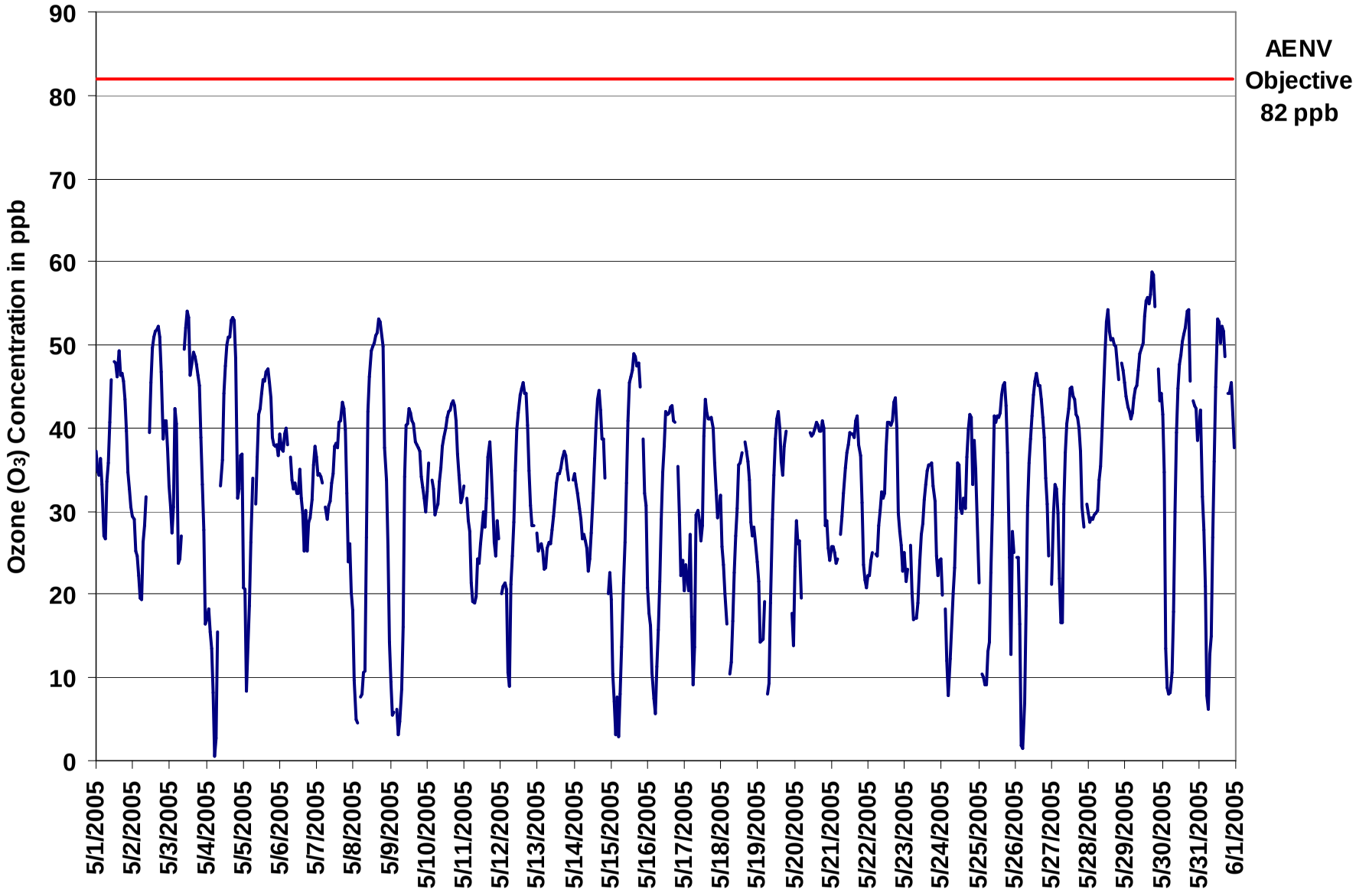


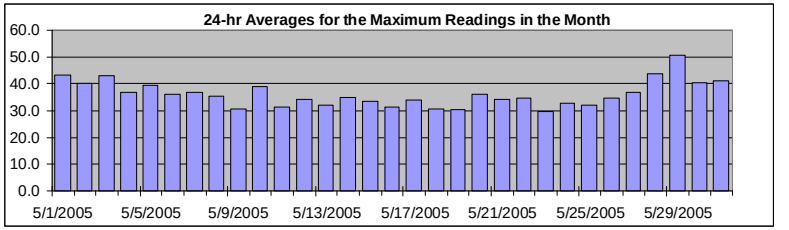
Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

HOURLY MAXIMUM TABLE

Ozone (O_3)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Value:	94.0	ppb	1-May	15:00 16:00
Maximum 24-hr Value:	50.5	ppb	29-May	

AIC Time:	34 hrs	Operational Time:	705 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	57.4	53.6	44.1	37.1	28.8	14.8	8.8	36.2 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	39	39	37	38	37	32	31	35	38	46	48	A	50	50	49	94	48	48	48	46	44	38	35	33	43.5	94.0
2-May-05	31	32	27	27	25	24	26	29	31	34	A	44	49	52	53	54	55	54	55	52	45	44	44	40	40.3	54.7
3-May-05	37	34	30	36	48	44	39	31	35	A	52	54	56	55	49	51	51	51	50	48	44	36	35	24	43.0	55.7
4-May-05	26	24	21	16	15	2	5	28	A	40	41	47	50	52	53	54	55	55	55	55	39	37	42	41	37.0	55.2
5-May-05	33	27	15	18	22	39	43	A	36	40	44	45	47	48	47	51	50	48	47	44	41	42	41	39	39.4	50.5
6-May-05	40	39	38	41	41	40	A	38	37	35	36	34	34	37	36	33	33	34	31	33	32	35	38	39	36.3	41.4
7-May-05	39	36	36	36	36	A	32	31	32	34	36	38	40	40	41	43	43	45	44	44	38	27	31	29	37.0	44.7
8-May-05	29	14	11	9	A	11	11	16	18	32	47	50	51	52	52	53	53	55	55	54	46	36	32	25	35.4	55.1
9-May-05	14	10	9	A	11	6	7	15	30	43	43	44	44	45	44	43	40	40	40	39	37	34	33	32	30.6	44.6
10-May-05	35	37	A	35	34	32	33	33	37	37	39	42	43	43	44	44	45	46	45	43	41	36	35	34	38.9	45.9
11-May-05	35	A	34	31	30	26	24	23	26	28	28	29	32	33	32	37	41	40	37	35	29	30	33	33	31.6	41.4
12-May-05	A	24	23	24	23	23	16	25	27	33	38	43	45	45	47	47	46	47	45	37	34	30	30	A	34.2	47.4
13-May-05	29	27	27	28	27	25	25	28	28	28	29	31	34	35	36	37	38	38	39	39	38	36	A	36	32.0	39.5
14-May-05	37	35	34	32	31	29	29	28	28	27	29	34	37	40	43	46	46	46	41	41	37	A	27	25	34.9	46.5
15-May-05	24	17	11	10	12	6	11	18	25	32	41	47	49	50	49	52	51	51	50	50	A	46	39	35	33.8	52.1
16-May-05	26	22	19	13	10	11	16	19	24	35	38	42	45	44	44	45	46	44	44	A	42	34	30	28	31.4	45.6
17-May-05	25	28	26	26	30	22	16	29	33	32	31	30	37	43	46	44	43	44	43	43	38	35	36	34	33.9	46.0
18-May-05	37	33	28	22	19	A	13	16	19	27	33	35	37	39	40	A	41	40	38	37	33	30	30	30	30.7	41.0
19-May-05	26	26	17	16	22	A	10	13	24	33	37	42	43	46	43	42	38	42	42	C	C	A	26	19	30.4	46.1
20-May-05	32	33	31	29	24	A	24	C	C	C	42	41	42	43	42	42	42	42	44	44	37	34	29	27	36.2	44.0
21-May-05	28	28	27	26	26	A	29	32	35	37	39	39	41	41	42	41	43	43	41	39	37	30	25	25	34.5	43.4
22-May-05	25	26	26	27	A	26	26	31	32	34	33	37	43	43	43	42	44	45	46	44	37	34	33	25	34.8	46.0
23-May-05	27	27	28	A	29	25	21	19	19	23	28	31	31	35	37	37	38	37	38	36	34	29	25	26	29.7	38.2
24-May-05	28	23	A	22	15	11	22	24	27	36	41	40	35	34	34	34	40	46	45	47	36	43	40	32	32.8	46.8
25-May-05	26	A	13	15	14	12	16	16	30	37	44	42	43	43	43	48	47	47	46	42	36	19	31	28	32.2	48.1
26-May-05	A	27	26	25	5	3	22	27	35	39	41	44	47	47	49	48	47	46	44	41	36	34	29	A	34.6	48.7
27-May-05	26	34	36	35	33	27	23	20	37	41	43	45	46	47	46	46	44	43	42	40	37	30	A	32	37.0	47.0
28-May-05	31	30	30	30	31	32	33	36	39	42	47	52	55	56	54	52	53	51	52	50	49	A	50	49	43.7	55.8
29-May-05	47	45	44	44	43	43	45	46	47	49	51	53	55	57	57	57	58	60	60	58	A	50	45	46	50.5	60.4
30-May-05	44	42	18	13	13	16	16	26	37	44	48	50	51	52	54	54	57	58	55	A	48	49	47	44	40.6	58.2
31-May-05	48	47	40	33	27	13	9	17	26	33	39	55	56	55	53	54	55	51	A	50	47	51	45	43	41.1	55.8
Hourly Avg	31.9	29.8	26.3	26.1	25.3	22.3	22.4	25.8	30.7	35.5	39.6	42.0	44.1	45.2	45.2	47.5	46.2	46.4	45.4	44.0	39.0	36.0	35.1	32.9		
Hourly Max	48.1	46.6	44.0	43.6	47.8	43.7	45.4	46.2	47.1	48.6	51.8	54.9	55.8	57.3	57.5	94.0	58.1	60.4	60.2	57.7	49.4	51.0	49.5	48.6		

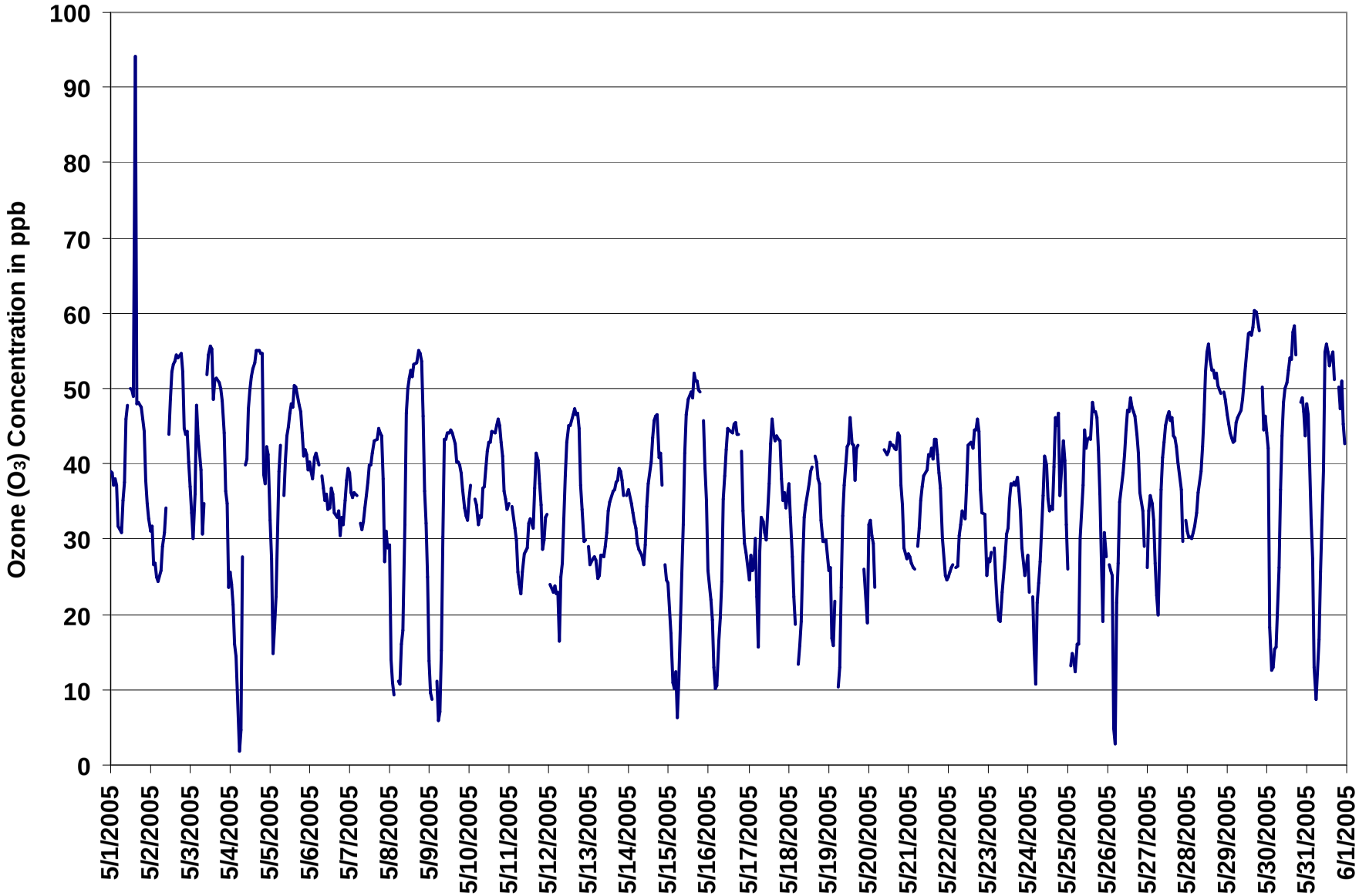
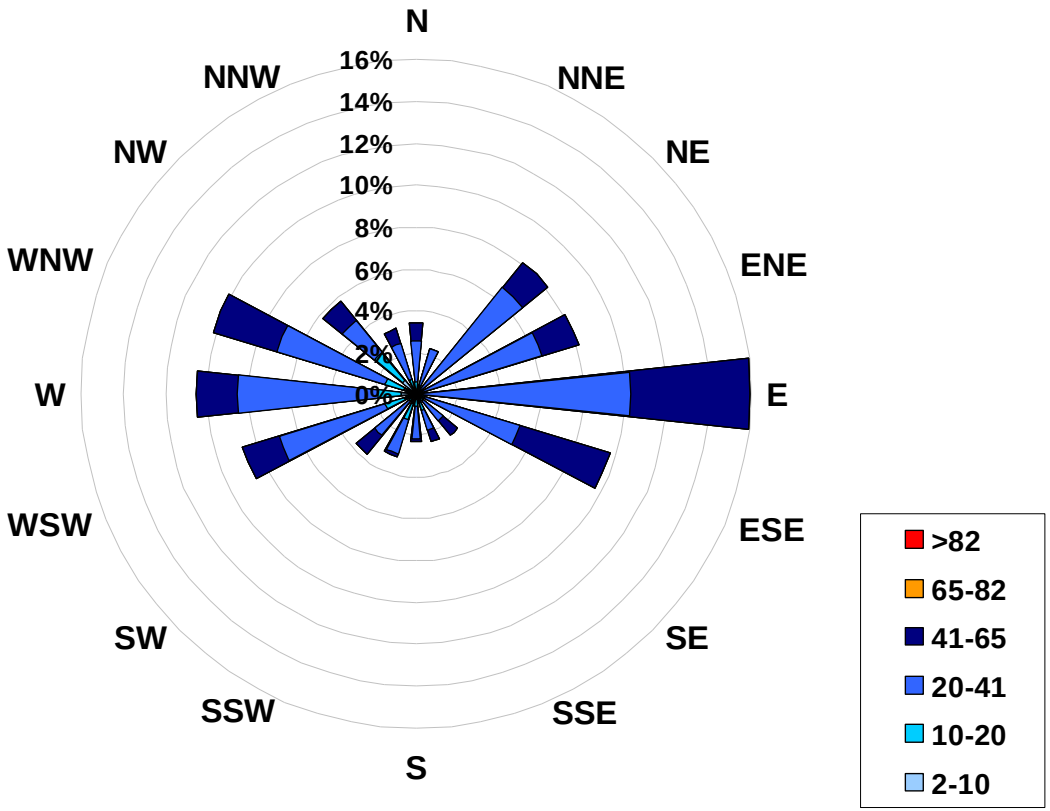


Figure 8. PASZA - Henry Pirker Ozone 1-hr Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of O_3 in ppb			
Range			Frequency (hrs)
2.0	<	10	39
10	to	20	61
20	to	41	421
41	to	65	184
65	to	82	0
	>	82	0
Total Non-Zero Values			705

PASZA - Henry Pirker Ozone Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O_3)

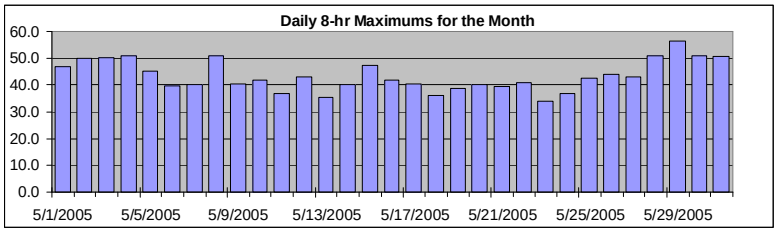
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2005 to June 1, 2005

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

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	56.2	ppb	29-May	20:00 21:00



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

Percentile	99	95	75	50	25	5	1
	51.6	49.0	39.4	32.9	25.4	15.6	10.1

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-May-05	14	17	19	22	24	27	30	33	33	33	35	35	37	40	43	45	46	47	47	47	46	44	42	40	47.1
2-May-05	38	36	33	31	29	27	25	24	24	25	25	27	30	34	39	42	46	49	49	50	49	48	47	45	49.9
3-May-05	43	40	37	35	35	35	33	32	31	31	34	37	39	41	44	47	50	50	50	49	47	44	42	38	50.4
4-May-05	34	30	26	23	19	15	11	11	11	13	16	20	26	33	40	45	46	48	50	51	49	47	45	43	50.9
5-May-05	39	35	29	25	24	23	22	20	22	24	29	33	37	39	41	42	44	45	45	45	44	43	42	41	45.1
6-May-05	40	39	38	38	38	38	38	38	37	37	36	35	34	34	33	33	31	31	30	30	29	29	29	30	39.7
7-May-05	32	32	34	34	35	35	34	33	32	32	32	32	32	33	34	35	37	38	39	40	39	38	36	34	40.1
8-May-05	31	27	22	17	15	13	10	9	8	10	16	22	25	30	36	41	46	49	50	51	50	47	44	40	51.0
9-May-05	35	29	23	19	14	10	7	6	7	11	16	19	24	29	33	37	40	40	40	40	39	37	36	35	40.3
10-May-05	34	34	33	33	33	32	32	32	32	32	33	34	35	36	37	39	40	41	42	42	42	41	39	38	41.9
11-May-05	37	36	34	33	31	29	28	26	24	24	23	23	23	24	25	26	28	30	32	32	32	31	31	31	36.8
12-May-05	30	27	26	24	23	21	18	18	19	20	21	24	26	31	35	38	40	42	43	42	41	39	37	36	43.1
13-May-05	33	31	29	27	27	26	25	25	25	25	25	26	27	28	29	30	32	33	34	35	35	35	36	35	35.5
14-May-05	35	35	34	33	32	31	31	30	29	27	26	26	27	28	29	32	34	36	38	40	40	40	37	34	40.3
15-May-05	31	26	22	17	13	12	10	9	9	11	15	19	24	29	34	39	42	45	47	47	47	46	44	41	47.3
16-May-05	38	33	29	24	22	18	15	13	13	15	17	20	25	29	33	36	39	40	41	42	41	39	36	34	41.8
17-May-05	30	28	25	25	24	22	21	19	20	21	22	23	23	26	30	33	35	36	38	40	40	40	38	36	40.4
18-May-05	35	33	31	29	26	25	23	20	18	17	18	19	22	24	27	29	32	34	36	36	35	34	33	32	36.2
19-May-05	30	28	25	23	22	21	18	16	15	16	19	22	26	28	32	35	37	38	39	39	N	N	N	N	38.7
20-May-05	N	N	N	N	22	22	23	N	N	N	N	N	N	N	N	N	40	40	40	40	39	37	35	33	40.0
21-May-05	32	30	28	26	25	25	25	26	27	28	30	32	34	35	36	37	38	39	39	39	38	36	34	32	39.4
22-May-05	29	27	25	24	23	23	23	24	26	27	28	29	30	32	34	36	37	38	40	41	40	38	36	34	40.8
23-May-05	32	30	27	25	25	23	22	21	20	20	20	21	21	23	25	27	29	31	33	34	34	33	32	30	33.9
24-May-05	29	27	26	24	21	18	17	16	16	18	20	22	24	27	29	31	32	34	34	35	36	37	37	37	37.0
25-May-05	35	34	30	25	22	18	15	12	13	15	19	22	27	31	34	38	41	43	43	42	40	37	35	33	42.8
26-May-05	31	28	25	22	19	17	14	13	16	17	19	22	27	33	38	41	43	44	44	44	43	41	38	37	44.1
27-May-05	33	32	30	29	29	28	26	25	26	27	28	29	31	34	38	41	42	43	43	42	40	38	37	36	42.8
28-May-05	34	32	31	29	29	30	30	30	31	32	34	36	39	42	45	47	49	50	51	51	50	50	49	48	51.1
29-May-05	48	47	46	45	44	44	43	43	43	43	44	45	47	49	50	51	53	54	55	56	56	55	53	52	56.2
30-May-05	50	46	40	33	30	25	21	18	16	17	21	26	31	36	41	46	49	50	50	51	50	49	48	46	50.9
31-May-05	44	42	40	39	36	31	27	24	21	19	19	21	25	31	36	41	46	49	50	50	49	48	47	45	50.5
Hourly Max	49.7	46.8	45.8	44.9	44.2	43.9	43.4	43.1	43.1	43.5	44.3	45.3	46.9	48.5	50.0	51.3	52.7	54.1	55.3	55.9	56.2	55.1	53.3	51.7	

PASZA - Henry Pirker Carbon Monoxide Monthly Summary

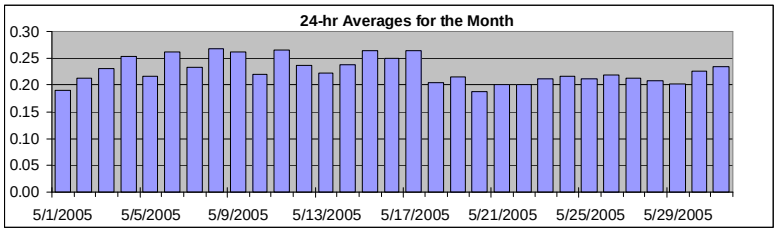
HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2005 to June 1, 2005

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



Summary

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	0.5	ppm	26-May	6:00 7:00
Maximum 24-hr Value:	0.3	ppm	8-May	

AIC Time:	33 hrs	Operational Time:	707 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average
	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2 ppm

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.19	0.28
2-May-05	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.21	0.37
3-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.3	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.23	0.47
4-May-05	0.3	0.3	0.3	0.2	0.2	0.4	0.4	0.3	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.3	0.25	0.44
5-May-05	0.3	0.2	0.2	0.2	0.2	0.2	0.3	A	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.22	0.33
6-May-05	0.2	0.2	0.2	0.2	0.2	0.2	A	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.26	0.31
7-May-05	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.23	0.31
8-May-05	0.3	0.4	0.3	0.3	A	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.27	0.45
9-May-05	0.3	0.2	0.2	A	0.3	0.4	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26	0.52
10-May-05	0.2	0.2	A	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.22	0.28
11-May-05	0.2	A	0.2	0.2	0.2	0.3	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.26	0.36
12-May-05	A	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	A	0.24	0.33
13-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	A	0.2	0.22	0.27
14-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.4	0.3	0.24	0.39
15-May-05	0.4	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.2	0.2	0.3	0.26	0.38
16-May-05	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.3	0.3	0.2	0.25	0.32
17-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.4	C	C	C	A	0.2	0.4	0.4	0.3	0.3	0.3	0.3	0.26	0.37
18-May-05	0.3	0.2	0.2	0.2	0.2	A	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.26
19-May-05	0.2	0.2	0.2	0.2	0.2	A	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.22	0.29
20-May-05	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	N	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.24
21-May-05	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.20	0.31
22-May-05	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.23
23-May-05	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.23
24-May-05	0.2	0.2	A	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	0.28
25-May-05	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.2	0.2	0.21	0.40
26-May-05	A	0.2	0.2	0.2	0.2	0.3	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.22	0.53
27-May-05	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.21	0.33
28-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.21	0.25
29-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.20	0.24
30-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	A	0.2	0.2	0.2	0.2	0.23	0.32
31-May-05	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	A	0.2	0.2	0.2	0.2	0.2	0.24	0.30
Hourly Avg	0.23	0.22	0.21	0.20	0.21	0.26	0.28	0.27	0.24	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.23	0.26	0.25	0.25	0.24		
Hourly Max	0.35	0.36	0.32	0.38	0.30	0.44	0.53	0.47	0.34	0.31	0.31	0.31	0.36	0.27	0.31	0.29	0.31	0.28	0.36	0.37	0.41	0.33	0.40	0.45		

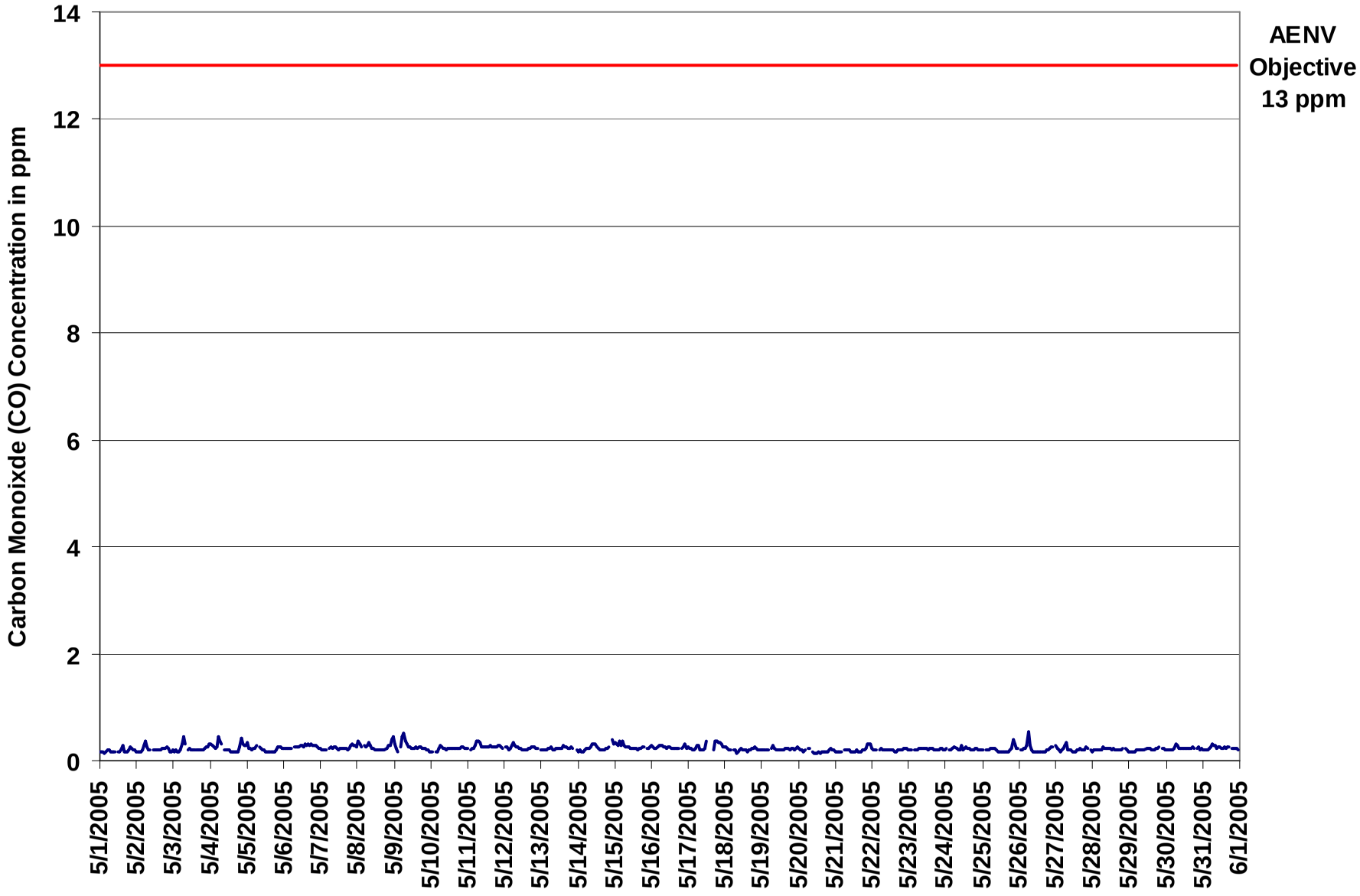


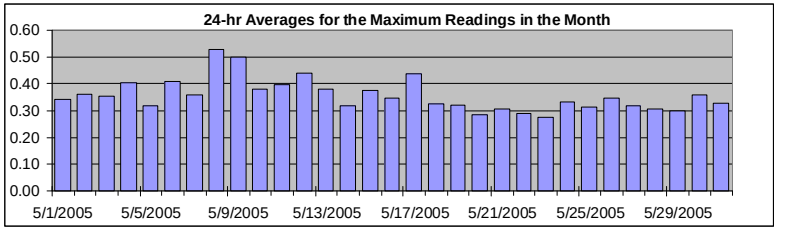
Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend

HOURLY MAXIMUM TABLE

Carbon Monoxide (CO)

Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Value:	2.9	ppm	8-May	8:00 9:00
Maximum 24-hr Value:	0.5	ppm	8-May	

AIC Time:	33 hrs	Operational Time:	707 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average
	1.1	0.7	0.4	0.3	0.3	0.2	0.2	0.4 ppm

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	0.2	0.3	0.2	0.2	0.3	0.4	0.3	0.3	0.3	0.3	0.3	A	0.3	0.3	0.4	1.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.34	1.32
2-May-05	0.3	0.3	0.3	0.3	0.3	1.6	0.8	0.4	0.3	0.3	A	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.2	0.36	1.56
3-May-05	0.3	0.3	0.4	0.2	0.3	0.3	1.0	0.9	0.4	A	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.35	0.96
4-May-05	0.5	0.4	0.4	0.3	0.3	1.1	0.6	0.7	A	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.5	0.6	0.4	0.5	0.4	0.41	1.14
5-May-05	0.7	0.3	0.3	0.3	0.4	0.3	0.7	A	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.4	0.3	0.3	0.3	0.32	0.70
6-May-05	0.3	0.3	0.3	0.3	0.3	0.3	A	0.4	0.4	0.3	0.4	0.3	0.3	0.4	0.5	0.4	0.7	0.5	0.6	0.5	0.8	0.5	0.3	0.3	0.41	0.80
7-May-05	0.7	0.3	0.3	0.3	0.3	A	0.3	0.4	0.3	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.36	0.74
8-May-05	0.4	0.6	0.8	0.3	A	0.6	0.4	0.4	2.9	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.4	0.4	0.5	0.9	0.6	0.53	2.92
9-May-05	0.4	0.3	0.3	A	0.8	1.6	1.1	0.6	0.4	0.6	0.6	0.4	0.3	0.4	0.5	0.3	0.3	0.4	0.6	0.3	0.4	0.3	0.3	0.2	0.50	1.57
10-May-05	0.2	0.3	A	0.2	0.3	0.5	0.7	0.4	1.1	0.3	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.38	1.12
11-May-05	0.3	A	0.3	0.3	0.3	0.7	1.0	0.8	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.40	0.99
12-May-05	A	0.4	2.8	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.6	0.3	0.3	0.3	0.3	A	0.44	2.82
13-May-05	0.3	0.3	0.2	0.2	0.3	0.8	0.4	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.5	0.3	0.3	0.6	0.4	0.3	A	0.3	0.38	0.81
14-May-05	0.2	0.3	0.2	0.3	0.3	0.4	0.3	0.4	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	A	0.5	0.4	0.32	0.50
15-May-05	0.6	0.6	0.4	0.5	0.4	0.6	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	A	0.3	0.3	0.6	0.38	0.64
16-May-05	0.4	0.4	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.3	0.3	0.3	0.3	A	0.3	0.4	0.5	0.3	0.35	0.60
17-May-05	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.8	C	C	C	A	0.5	0.7	1.0	0.5	0.5	0.5	0.3	0.44	1.01
18-May-05	0.3	0.3	0.3	0.2	0.3	A	0.5	0.4	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.8	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.2	0.32	0.79
19-May-05	0.2	0.5	0.2	0.2	0.4	A	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.32	0.53
20-May-05	0.3	0.3	0.3	0.2	0.3	A	0.3	0.3	N	0.3	0.8	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.29	0.80
21-May-05	0.2	0.2	0.3	0.2	0.2	A	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.5	0.5	1.0	0.31	1.04
22-May-05	0.3	0.3	0.3	0.2	A	0.2	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.29	0.46
23-May-05	0.3	0.3	0.3	A	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.27	0.32
24-May-05	0.2	0.3	A	0.3	0.3	0.3	0.4	0.3	0.3	0.2	1.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.33	1.40
25-May-05	0.3	A	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	1.0	0.4	0.3	0.3	0.31	0.99
26-May-05	A	0.3	0.3	0.4	0.3	0.7	1.3	0.4	0.3	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.4	0.3	0.3	0.3	0.3	0.4	A	0.35	1.26
27-May-05	0.4	0.3	0.2	0.4	0.3	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.4	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3	A	0.3	0.32	0.53
28-May-05	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.7	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	A	0.3	0.3	0.31	0.72
29-May-05	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.5	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.3	0.4	0.3	0.3	A	0.3	0.3	0.3	0.30	0.55
30-May-05	0.3	0.3	0.2	0.3	0.3	0.4	0.9	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.9	0.3	0.3	0.3	0.3	A	0.3	0.4	0.3	0.3	0.36	0.94
31-May-05	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.4	A	0.3	0.3	0.4	0.3	0.3	0.33	0.44
Hourly Avg	0.34	0.32	0.38	0.28	0.31	0.54	0.51	0.43	0.45	0.31	0.36	0.30	0.30	0.30	0.34	0.35	0.31	0.32	0.33	0.36	0.39	0.35	0.36	0.35		
Hourly Max	0.74	0.62	2.82	0.48	0.80	1.57	1.26	0.92	2.92	0.63	1.40	0.44	0.83	0.47	0.88	1.32	0.70	0.55	0.73	1.01	0.99	0.51	0.91	1.04		

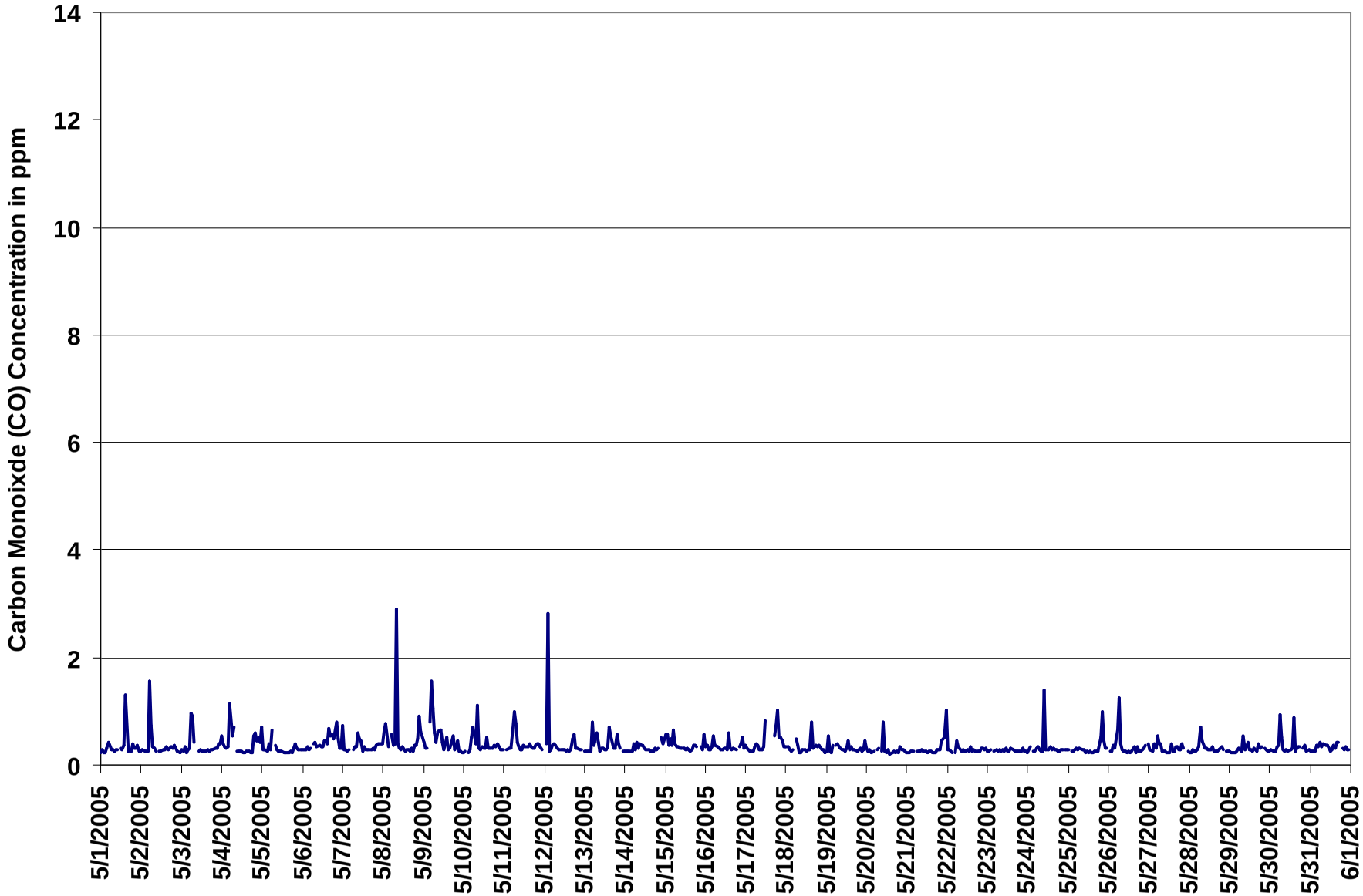
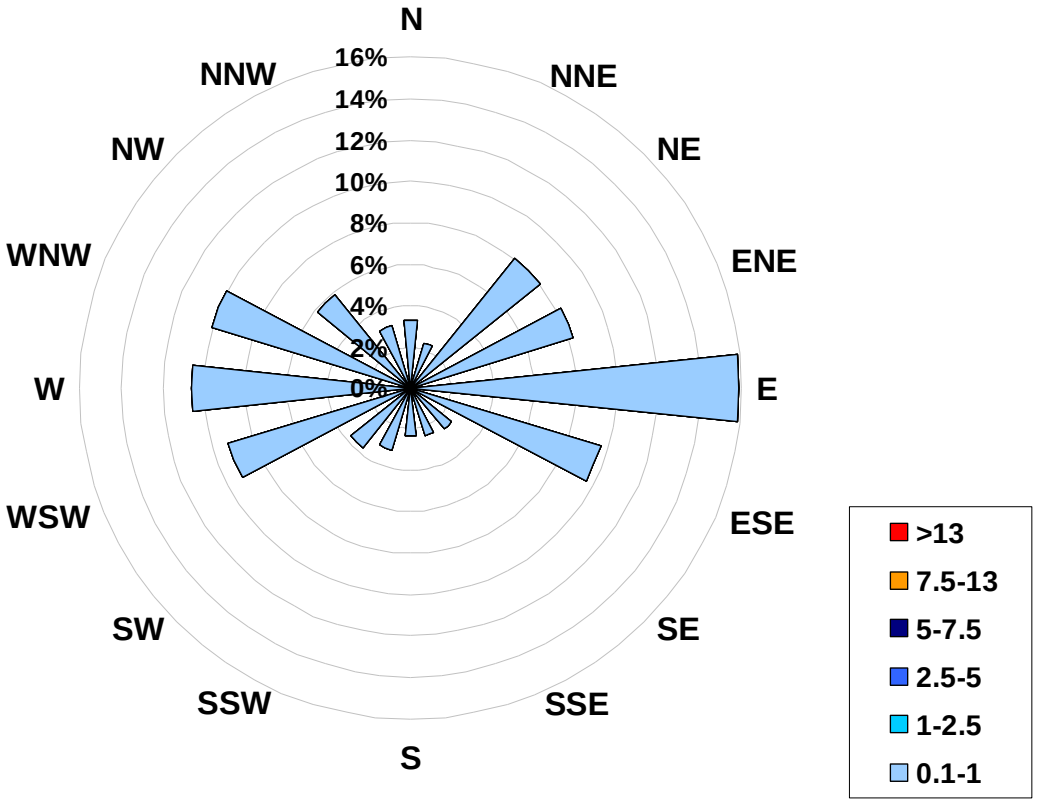


Figure 10. PASZA - Henry Pirker Carbon Monoxide 1-hr Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of CO in ppm			
Range			Frequency (hrs)
0.1	<	1	707
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			707

PASZA - Henry Pirker Carbon Monoxide Monthly Summary

EIGHT HOUR RUNNING AVERAGE TABLE

Carbon Monoxide (CO)

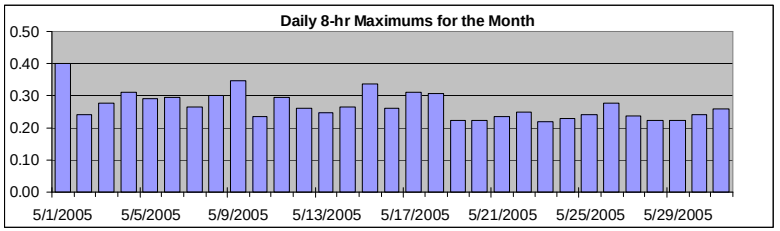
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2005 to June 1, 2005

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

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	0.4	ppm	1-May	0:00 1:00



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

Status Flag Characters

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

Day **Mountain Standard Time**

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-May-05	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.40
2-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
3-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.28
4-May-05	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.31
5-May-05	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.29
6-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.29
7-May-05	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.27
8-May-05	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.30
9-May-05	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.35
10-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
11-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.30
12-May-05	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26
13-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25
14-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.26
15-May-05	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.34
16-May-05	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26
17-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	N	N	N	N	N	N	N	N	N	0.3	0.31
18-May-05	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.31
19-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
20-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N	N	N	N	N	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
21-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
22-May-05	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25
23-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
24-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
25-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
26-May-05	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.28
27-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
28-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
29-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
30-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
31-May-05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26
Hourly Max	0.40	0.37	0.35	0.34	0.33	0.34	0.34	0.33	0.33	0.34	0.35	0.33	0.33	0.30	0.28	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.31	

PASZA - Henry Pirker Total Hydrocarbons Monthly Summary

HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)

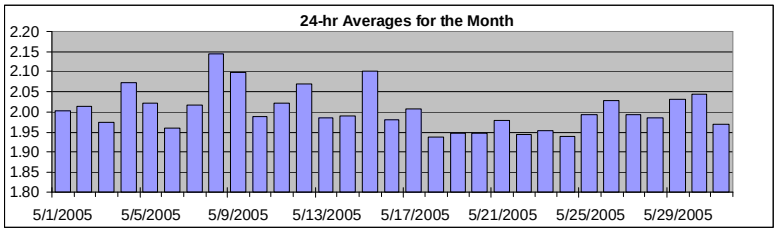
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2005 to June 1, 2005

Objective Limit: **Alberta Environment:** 1-hr na ppm | 24-hr na ppm

Summary

Maximum 1-hr Average:	2.9	ppm	5-May	2:00 3:00
Maximum 24-hr Value:	2.1	ppm	8-May	



AIC Time:	33 hrs	Operational Time:	707 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average
	2.5	2.3	2.0	2.0	1.9	1.9	1.9	2.0 ppm

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.00	2.08
2-May-05	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	A	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.02	2.10
3-May-05	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	A	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	1.97	2.13
4-May-05	2.3	2.4	2.3	2.3	2.3	2.4	2.3	2.1	A	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.1	2.1	2.1	2.07	2.35
5-May-05	2.2	2.2	2.9	2.3	2.2	2.1	2.0	A	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	2.02	2.86
6-May-05	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	2.1	2.0	2.0	2.0	2.0	2.0	1.96	2.06
7-May-05	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.02	2.16
8-May-05	2.2	2.3	2.3	2.4	A	2.3	2.4	2.5	2.6	2.2	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.2	2.14	2.58
9-May-05	2.2	2.2	2.3	A	2.4	2.5	2.4	2.3	2.4	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.10	2.49
10-May-05	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	1.99	2.03
11-May-05	2.0	A	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.0	2.0	2.02	2.11
12-May-05	A	2.0	2.1	2.3	2.5	2.4	2.5	2.3	2.6	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	A	2.07	2.55
13-May-05	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	1.9	1.9	2.0	2.0	A	2.0	1.99	2.05
14-May-05	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.1	2.1	1.99	2.14
15-May-05	2.3	2.2	2.3	2.4	2.4	2.5	2.4	2.2	2.1	2.1	2.2	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	2.0	2.10	2.53
16-May-05	2.3	2.2	2.1	2.1	2.2	2.2	2.1	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.8	1.8	1.9	1.9	A	1.9	1.9	2.0	2.2	1.98	2.27
17-May-05	2.2	2.1	2.1	2.1	2.0	2.1	2.1	2.0	2.0	2.0	2.0	1.9	2.0	1.9	1.8	C	C	C	A	2.2	1.9	1.9	1.9	1.9	2.01	2.17
18-May-05	1.9	2.1	2.0	2.0	2.0	A	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.94	2.06
19-May-05	1.9	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	1.95	2.08
20-May-05	2.1	2.0	2.0	2.1	2.1	A	2.0	2.0	N	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.95	2.13
21-May-05	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.1	1.98	2.08
22-May-05	2.0	2.0	2.0	2.0	A	2.0	2.0	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.94	2.02
23-May-05	1.9	1.9	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.96	2.02
24-May-05	1.9	2.0	A	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.94	2.03
25-May-05	2.0	A	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.0	2.0	1.99	2.14
26-May-05	A	2.0	2.0	2.1	2.2	2.4	2.3	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	A	2.03	2.37
27-May-05	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	A	2.0	1.99	2.13
28-May-05	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	A	2.0	2.0	1.99	2.05
29-May-05	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.1	2.1	2.1	2.03	2.07
30-May-05	2.0	2.1	2.3	2.3	2.3	2.3	2.4	2.3	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	2.04	2.36
31-May-05	1.9	1.9	2.1	2.0	2.0	2.1	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.97	2.17
Hourly Avg	2.05	2.06	2.10	2.09	2.10	2.14	2.12	2.08	2.06	2.01	1.98	1.96	1.95	1.94	1.92	1.92	1.92	1.92	1.92	1.94	1.97	1.99	1.99	2.02		
Hourly Max	2.29	2.35	2.86	2.40	2.54	2.53	2.53	2.50	2.58	2.24	2.16	2.08	2.06	2.03	2.01	2.02	2.01	2.00	2.06	2.16	2.08	2.14	2.13	2.24		

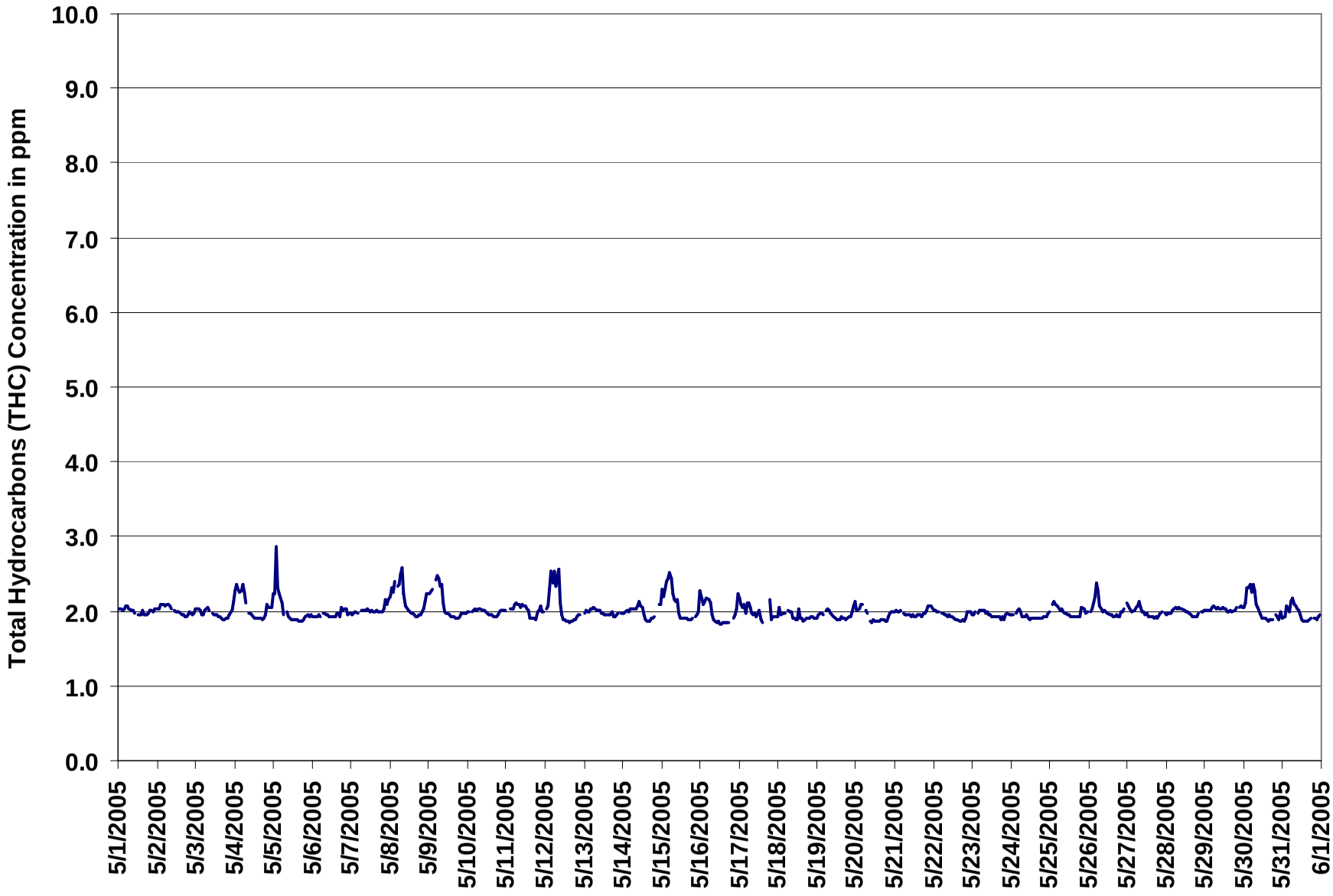


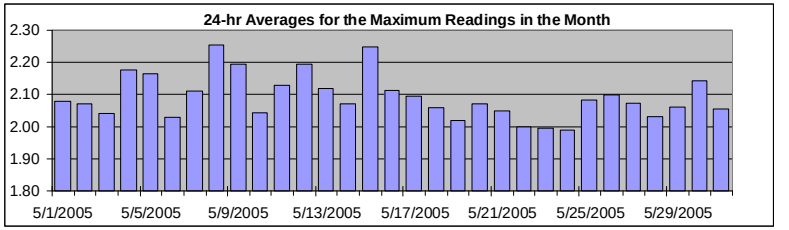
Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

HOURLY MAXIMUM TABLE

Total Hydrocarbons (THC)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Value:	4.0	ppm	13-May	17:00 18:00
Maximum 24-hr Value:	2.3	ppm	8-May	

AIC Time:	33 hrs	Operational Time:	707 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average
	2.8	2.5	2.1	2.0	2.0	1.9	1.9	2.1 ppm

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	A	2.0	2.0	2.1	2.8	2.0	2.0	2.1	2.0	2.0	2.1	2.0	2.1	2.08	2.77
2-May-05	2.0	2.1	2.1	2.1	2.1	2.3	2.3	2.1	2.1	2.1	A	2.0	2.0	2.0	2.2	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.07	2.26
3-May-05	2.1	2.1	2.2	2.1	2.0	2.0	2.2	2.2	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	1.9	2.0	2.1	2.4	2.04	2.38
4-May-05	2.5	2.5	2.6	2.4	2.4	2.6	2.3	2.4	A	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.0	1.9	1.9	2.1	2.3	2.1	2.1	2.2	2.18	2.62
5-May-05	2.6	3.0	3.1	3.0	2.4	2.3	2.1	A	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	2.0	2.16	3.11
6-May-05	2.0	1.9	2.0	1.9	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.4	2.1	2.1	2.1	2.0	2.0	2.03	2.43
7-May-05	2.0	2.0	2.0	2.1	2.0	A	2.0	2.1	2.1	2.1	2.5	2.2	2.0	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.3	2.4	2.3	2.11	2.55
8-May-05	2.4	2.5	2.5	2.6	A	2.6	2.4	2.6	2.9	2.4	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.4	2.4	2.26	2.90
9-May-05	2.4	2.4	2.4	A	2.5	2.6	2.8	2.5	2.5	2.3	2.0	2.1	2.0	2.1	2.0	2.0	2.0	1.9	2.0	2.0	2.1	2.0	2.0	2.0	2.20	2.78
10-May-05	2.0	2.0	A	2.1	2.0	2.1	2.1	2.1	2.3	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.04	2.27
11-May-05	2.1	A	2.1	2.0	2.1	2.3	2.6	2.2	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.3	2.1	2.0	2.13	2.58
12-May-05	A	2.1	2.3	2.6	2.7	2.7	2.7	2.5	2.7	2.5	2.3	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	2.0	2.0	2.0	A	2.20	2.73
13-May-05	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	4.0	2.0	2.0	2.0	2.0	A	2.0	2.12	3.97
14-May-05	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.0	1.9	1.9	1.9	2.0	2.1	1.9	2.1	A	2.3	2.3	2.07	2.28
15-May-05	2.5	2.6	2.8	2.6	2.6	2.8	2.6	2.3	2.2	2.3	2.4	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.0	A	2.0	2.0	2.2	2.25	2.85
16-May-05	2.7	2.5	2.2	2.2	2.2	2.3	2.8	2.0	1.9	1.9	1.9	1.9	2.0	1.9	2.2	1.9	1.9	1.9	1.9	A	1.9	2.0	2.2	2.4	2.11	2.82
17-May-05	2.3	2.2	2.1	2.1	2.0	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.3	2.1	1.9	C	C	C	A	2.2	1.9	2.0	2.0	2.0	2.09	2.34
18-May-05	2.0	2.2	2.0	2.0	2.0	A	2.1	2.0	2.0	2.0	2.0	1.9	2.0	3.5	2.0	2.0	1.9	2.0	2.0	1.9	2.0	2.0	2.0	1.9	2.06	3.54
19-May-05	2.0	2.1	2.0	2.0	2.0	A	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.1	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.4	2.02	2.41
20-May-05	2.6	2.1	2.3	2.5	2.3	A	2.1	2.0	N	2.1	1.9	2.0	1.9	1.9	1.9	1.9	2.3	2.1	1.9	1.9	2.0	2.0	2.0	2.0	2.07	2.58
21-May-05	2.0	2.0	2.0	2.0	2.1	A	2.0	2.0	2.0	2.0	2.2	2.3	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.3	2.2	2.2	2.05	2.27
22-May-05	2.1	2.1	2.1	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.3	2.1	2.0	2.00	2.28
23-May-05	2.0	2.0	2.1	A	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	2.0	1.9	2.0	2.0	1.9	2.0	1.9	2.1	2.0	2.0	2.00	2.10
24-May-05	2.0	2.0	A	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.3	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.99	2.33
25-May-05	2.1	A	2.3	2.6	2.1	2.2	2.1	2.2	2.1	2.1	2.0	2.0	2.0	2.0	1.9	2.0	1.9	1.9	2.0	2.0	2.4	2.1	2.0	2.0	2.08	2.65
26-May-05	A	2.0	2.1	2.2	2.3	2.6	2.5	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	A	2.10	2.56
27-May-05	2.3	2.5	2.3	2.0	2.1	2.1	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	1.9	2.1	2.1	A	2.0	2.07	2.47
28-May-05	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	1.9	2.1	2.0	2.0	A	2.0	2.1	2.03	2.10
29-May-05	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	A	2.1	2.1	2.1	2.06	2.10
30-May-05	2.1	2.2	2.6	2.4	2.5	2.4	2.6	2.6	2.2	2.1	2.0	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.0	A	2.1	2.0	2.0	2.2	2.14	2.65
31-May-05	2.0	2.3	2.1	2.1	2.2	2.4	2.3	2.2	2.1	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	2.1	A	1.9	1.9	1.9	2.0	2.0	2.06	2.35
Hourly Avg	2.16	2.20	2.22	2.21	2.17	2.27	2.25	2.16	2.13	2.08	2.08	2.02	2.00	2.04	1.99	2.00	1.97	2.04	1.99	1.99	2.05	2.06	2.07	2.11		
Hourly Max	2.73	3.04	3.11	3.02	2.72	2.76	2.82	2.65	2.90	2.49	2.55	2.27	2.34	3.54	2.18	2.77	2.26	3.97	2.43	2.23	2.37	2.34	2.39	2.41		

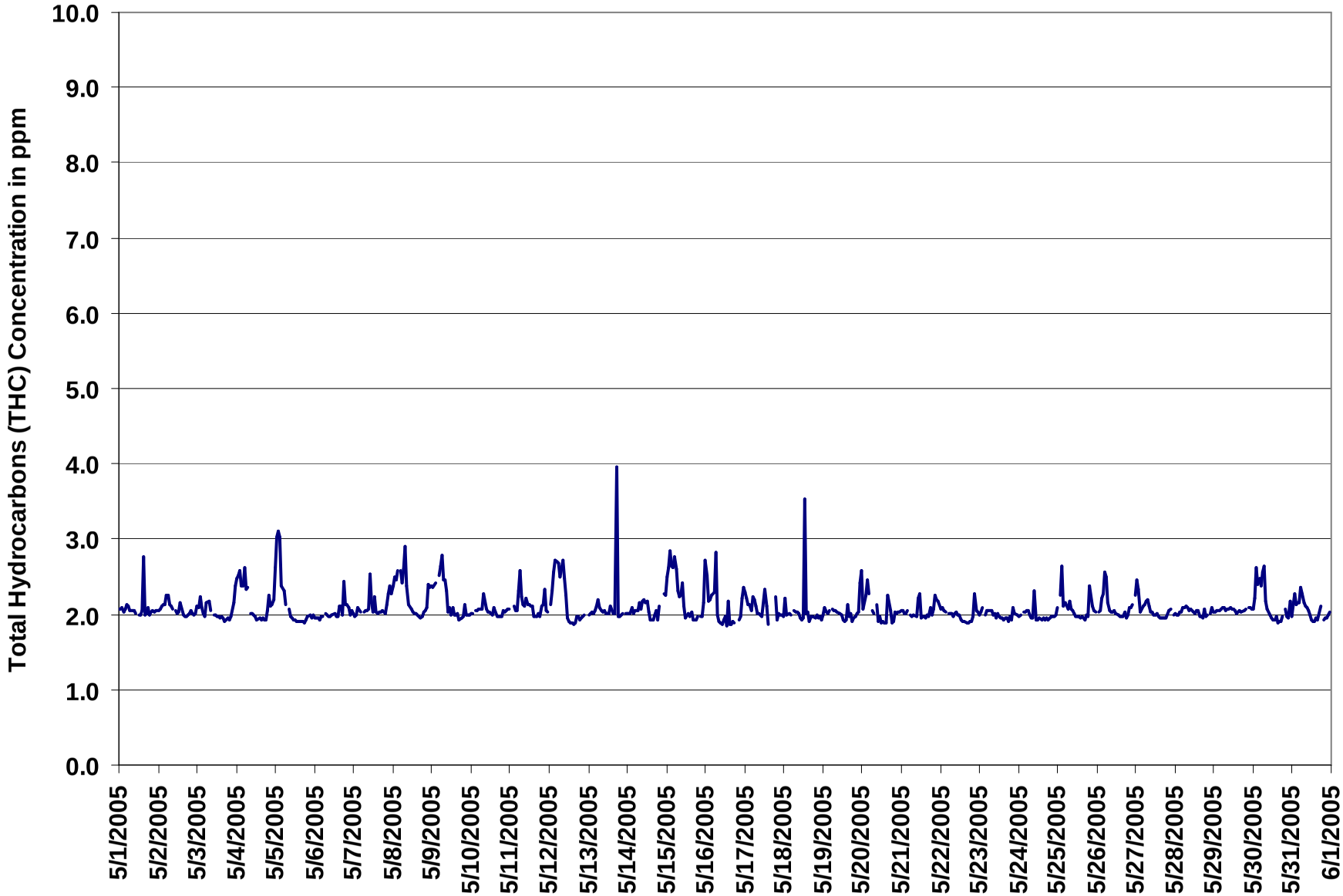
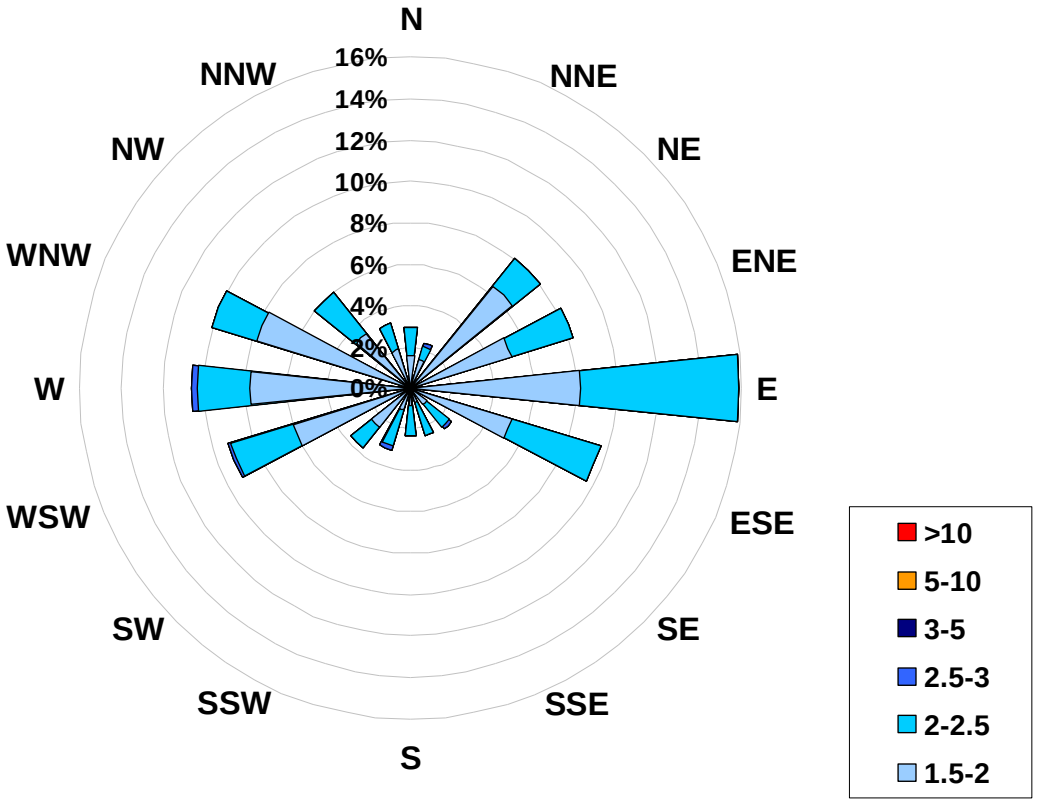


Figure 12. PASZA - Henry Pirker Total Hydrocarbons 1-hr Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of THC in ppm			
Range			Frequency (hrs)
1.5	<	2	429
2	to	2.5	272
2.5	to	3	6
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			707

PASZA - Henry Pirker Total Reduced Sulphur Monthly Summary

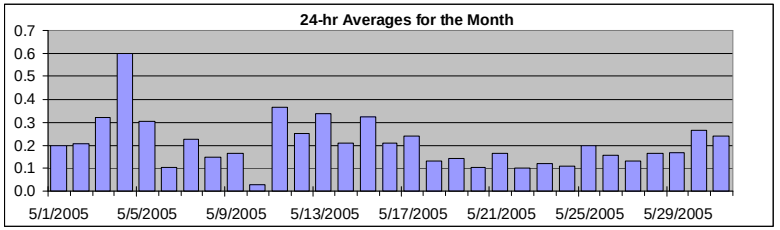
Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: May 1, 2005 to June 1, 2005

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



Summary

Maximum 1-hr Average:	1.3	ppb	4-May	1:00 2:00
Maximum 24-hr Value:	0.6	ppb	4-May	

AIC Time:	34 hrs	Operational Time:	704 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.6%

Percentile	99	95	75	50	25	5	1	Average
	0.9	0.5	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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
2-May-05	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
3-May-05	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0.3	0.6
4-May-05	1	1	1	1	1	1	1	0	A	0	0	1	1	0	1	1	1	1	1	0	0	0	0	1	0.6	1.3
5-May-05	1	1	1	1	1	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
6-May-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	0.1	0.3
7-May-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	0.2	0.4
8-May-05	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
9-May-05	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.2	0.5
10-May-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
11-May-05	0	A	0	0	0	0	0	D	0	0	D	0	0	0	0	0	1	1	1	1	1	1	1	0	0.4	1.0
12-May-05	A	0	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	A	0.3	1.1
13-May-05	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.6
14-May-05	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	0.5
15-May-05	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.6
16-May-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.2	0.5
17-May-05	0	0	0	0	0	0	0	0	0	0	C	C	C	A	A	0	0	0	0	0	0	0	0	0	0.2	0.5
18-May-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	0.1	0.4
19-May-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	0.1	0.4
20-May-05	0	0	0	0	0	A	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
21-May-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	0.2	0.3
22-May-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	0.1	0.2
23-May-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	0.1	0.2
24-May-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	0.1	0.2
25-May-05	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
26-May-05	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.5
27-May-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	0.1	0.3
28-May-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.3
29-May-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	0.2	0.2
30-May-05	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	0.5
31-May-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.2	0.5
Hourly Avg	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
Hourly Max	1.0	1.3	0.9	0.9	1.0	1.1	0.9	0.5	0.5	0.5	0.4	0.6	0.5	0.5	0.6	0.6	0.7	0.8	0.7	0.8	1.0	0.9	0.7	0.6		

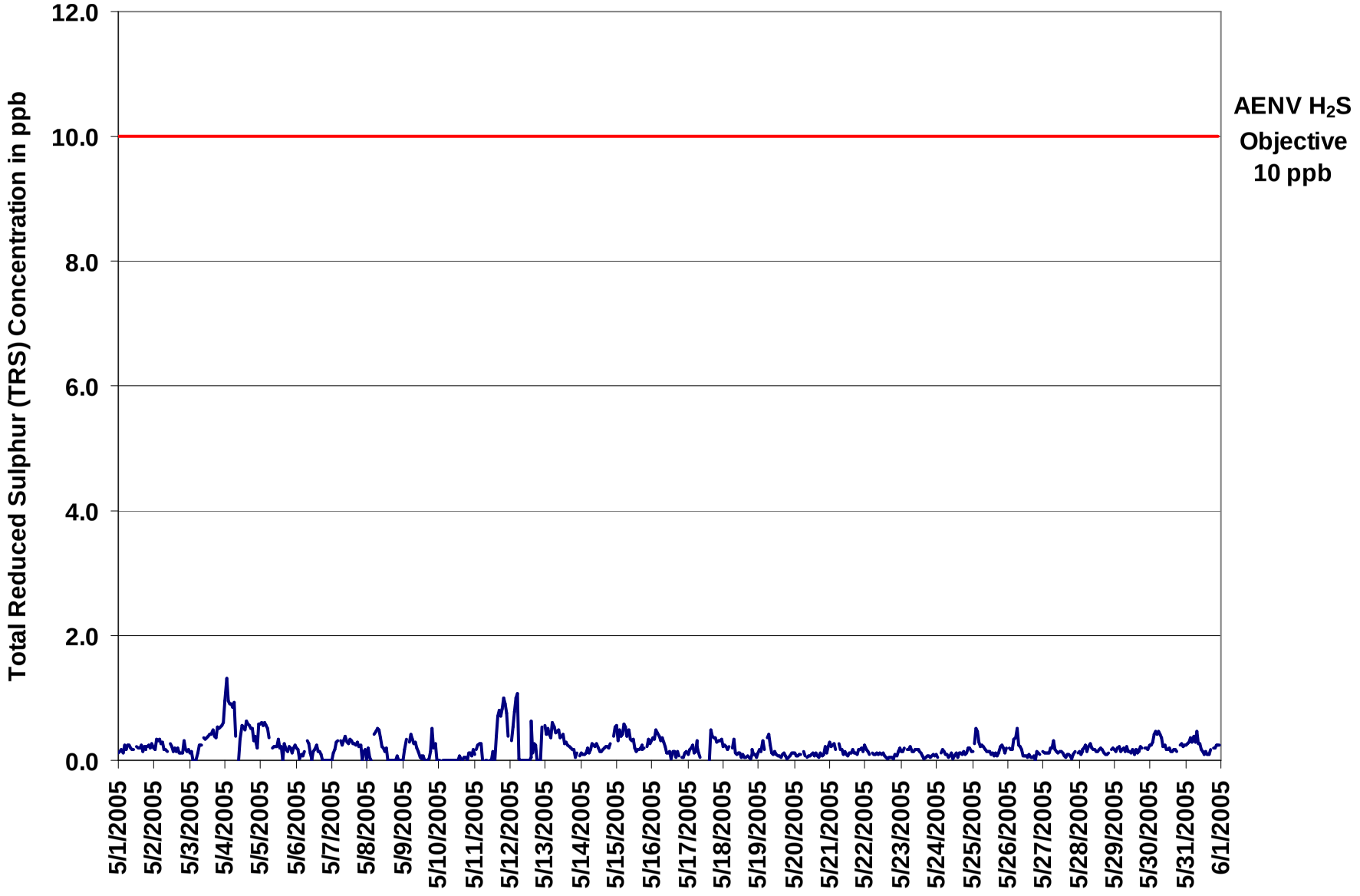


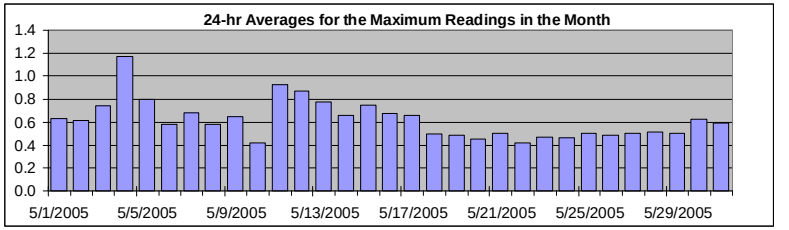
Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

HOURLY MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Value:	1.8	ppb	4-May	1:00 2:00
Maximum 24-hr Value:	1.2	ppb	4-May	

AIC Time:	34 hrs	Operational Time:	704 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.6%

Percentile	99	95	75	50	25	5	1	Average
	1.4	1.1	0.7	0.6	0.5	0.3	0.3	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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	1	0.6	0.8
2-May-05	1	1	1	1	1	1	1	1	1	1	A	1	1	0	1	0	1	1	1	1	1	1	1	1	0.6	0.9
3-May-05	1	1	0	0	0	0	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1
4-May-05	2	2	1	1	1	1	2	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	1.8
5-May-05	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0.8	1.3
6-May-05	1	1	1	1	1	1	A	1	1	1	0	0	0	0	1	1	1	1	1	0	0	0	0	1	0.6	0.9
7-May-05	0	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.7	1.0
8-May-05	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0.6	1.2
9-May-05	0	1	1	A	1	1	1	1	1	0	1	0	0	0	0	0	0	0	1	1	1	1	1	1	0.6	1.3
10-May-05	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	1	0.4	0.7
11-May-05	1	A	1	1	1	1	0	D	1	1	D	0	1	1	1	1	1	1	1	1	1	2	1	1	0.9	1.5
12-May-05	A	1	1	1	1	2	1	0	1	1	1	0	0	0	1	1	1	1	1	1	0	1	1	A	0.9	1.6
13-May-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	A	1	0.8	1.2
14-May-05	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.7	1.2
15-May-05	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	0	A	1	1	1	0.8	1.1
16-May-05	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	A	0	1	1	0	0.7	1.1
17-May-05	1	1	1	1	0	1	1	1	1	1	C	C	C	A	A	0	1	1	1	1	1	1	1	1	0.7	1.1
18-May-05	1	1	1	0	1	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.5	0.7
19-May-05	1	1	0	1	0	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.5	0.8
20-May-05	1	0	0	1	1	A	0	1	N	0	0	0	0	0	0	1	0	0	0	0	1	1	0	1	0.5	0.6
21-May-05	1	1	1	1	1	A	1	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0.5	0.7
22-May-05	1	1	0	0	A	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4	0.6
23-May-05	1	0	1	A	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0.5	0.6
24-May-05	0	0	A	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0.5	0.7
25-May-05	0	A	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0.5	0.8
26-May-05	A	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	A	0.5	0.9
27-May-05	0	1	0	1	0	0	1	1	1	0	1	1	0	0	0	0	1	0	1	0	0	0	A	0	0.5	0.9
28-May-05	1	0	0	0	1	1	0	1	1	1	1	0	0	0	0	1	0	1	0	0	1	A	1	1	0.5	0.7
29-May-05	0	0	0	1	1	1	1	0	1	1	1	0	1	0	0	0	1	0	1	1	A	1	1	0	0.5	0.7
30-May-05	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	0	1	0	0	A	1	1	1	1	0.6	0.9
31-May-05	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	A	0	1	1	1	1	0.6	0.9
Hourly Avg	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.5	0.6	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6		
Hourly Max	1.8	1.8	1.4	1.4	1.4	1.6	1.7	1.2	1.2	1.0	1.0	1.1	1.0	1.0	1.1	1.2	1.2	1.3	1.3	1.2	1.4	1.5	1.5	1.3		

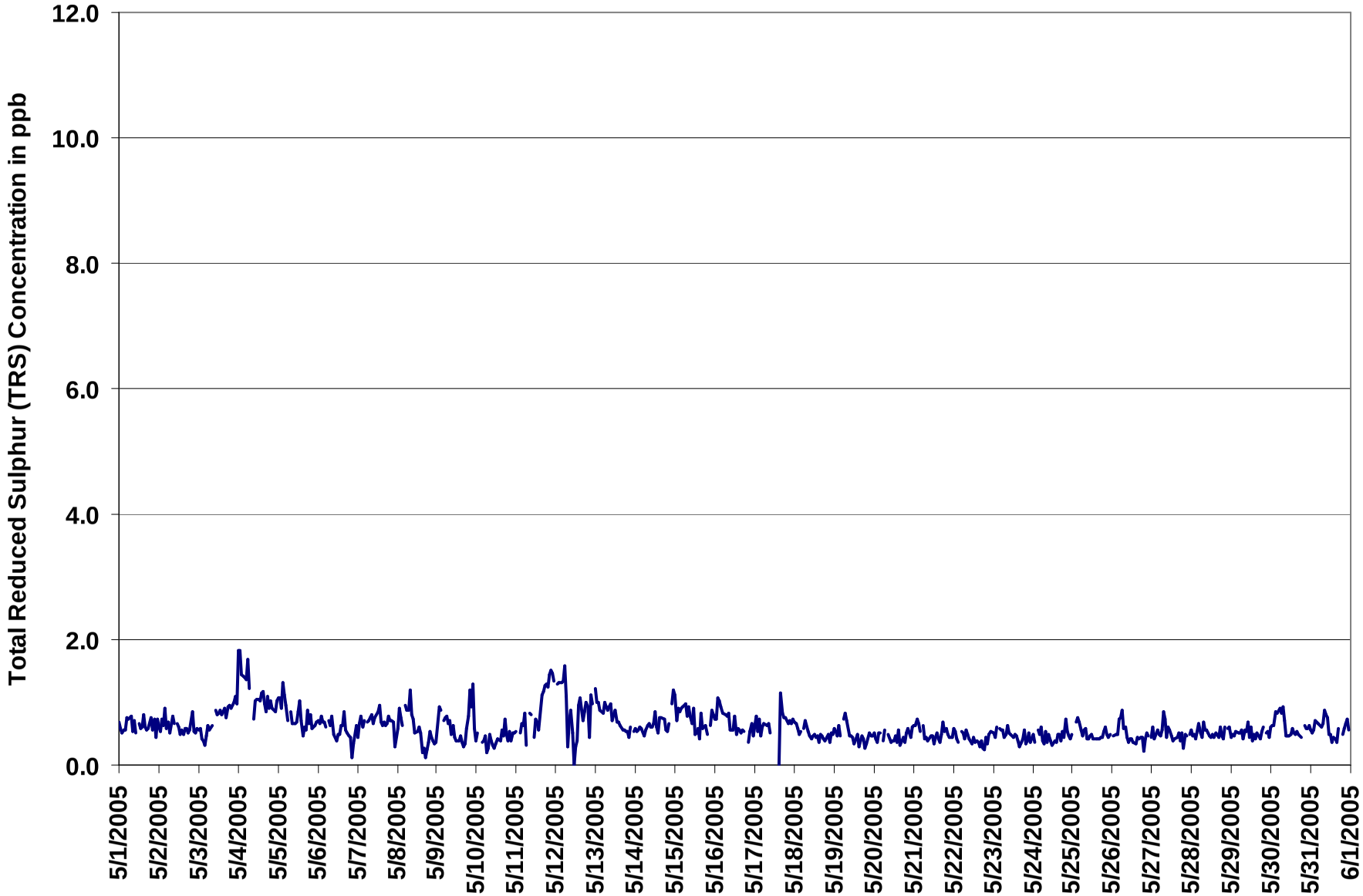
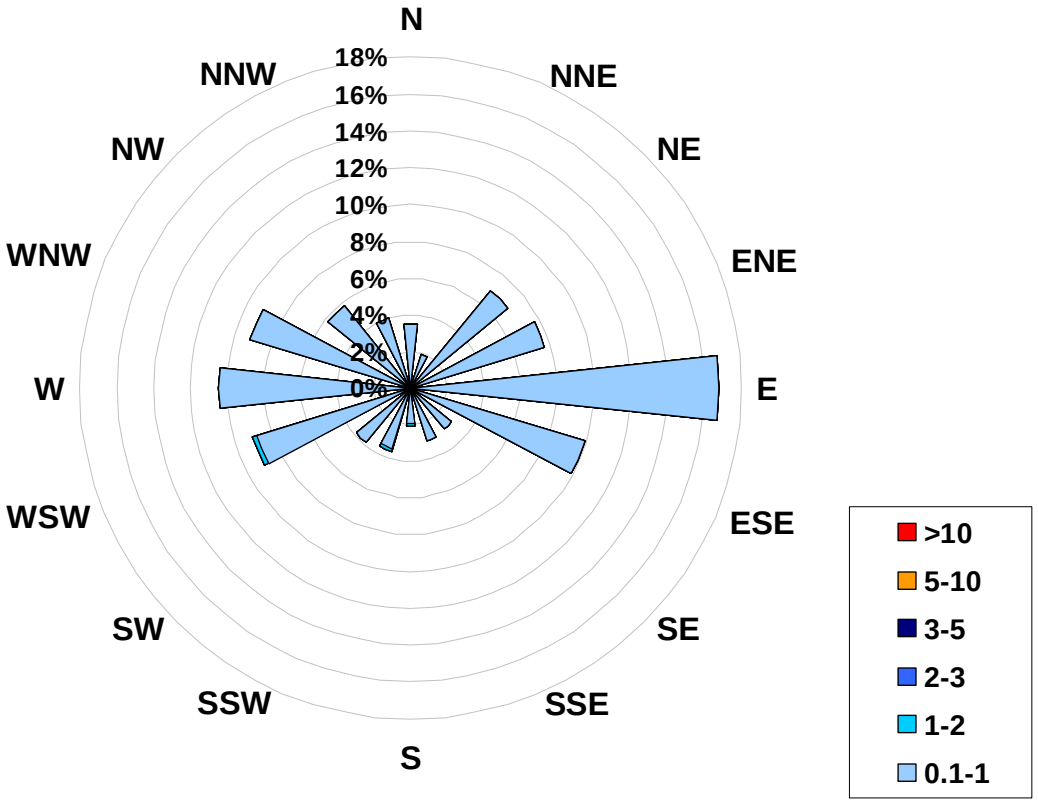


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of TRS in ppb			
Range			Frequency (hrs)
0.1	<	1	701
1	to	2	3
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			704

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

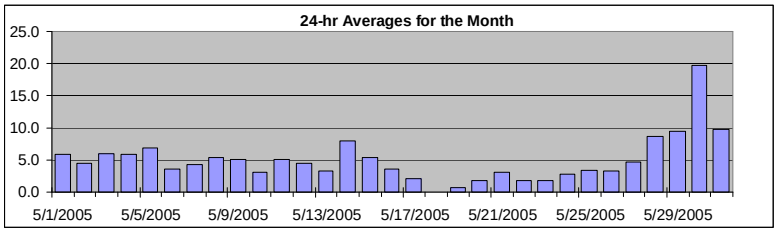
HOURLY AVERAGE TABLE

Particulate Matter ($PM_{2.5}$)

Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: May 1, 2005 to June 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:	35.5	µg/m³	30-May	1:00 2:00
Maximum 24-hr Value:	19.8	µg/m³	30-May	

AIC Time:	0 hrs	Operational Time:	728 hrs
Calibration Time:	6 hrs	AMD Operational Uptime:	98.7%

Percentile	99	95	75	50	25	5	1	Average	Geomean
	25.3	13.9	6.7	3.8	1.7	0.0	0.0	5.1 µg/m³	4.3 µg/m³

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	7	6	6	5	5	3	4	3	3	1	2	2	2	2	2	31	3	1	2	8	24	13	5	2	5.9	31.2
2-May-05	2	2	2	3	3	4	6	6	5	4	5	4	4	4	4	4	3	3	5	5	8	6	6	7	4.5	8.3
3-May-05	7	11	8	6	15	6	6	5	7	3	4	6	6	6	9	1	3	2	7	1	9	6	4	5	6.0	15.2
4-May-05	7	6	5	4	3	5	15	2	5	5	6	1	0	0	3	2	2	3	4	6	16	18	12	13	5.9	18.0
5-May-05	12	14	14	11	11	16	10	6	7	5	0	0	D	1	0	0	1	3	4	11	13	8	7	5	6.9	16.4
6-May-05	5	5	4	5	6	7	5	5	5	5	5	3	4	2	4	2	2	3	0	0	1	3	2	2	3.6	6.7
7-May-05	3	2	2	3	3	2	3	4	3	4	4	4	4	5	6	3	6	3	5	6	7	11	5	5	4.4	10.7
8-May-05	6	8	6	6	10	5	5	6	7	2	1	2	2	4	1	1	1	1	3	4	13	9	11	15	5.4	14.7
9-May-05	5	7	4	6	7	9	12	12	14	4	4	5	4	5	3	3	4	4	2	1	1	2	1	2	5.1	13.7
10-May-05	0	0	0	1	1	2	3	3	4	3	4	4	4	2	2	2	3	4	4	5	6	7	6	5	3.1	7.0
11-May-05	4	2	2	2	2	4	5	8	9	8	14	10	10	7	12	6	0	2	0	3	7	0	2	1	5.1	14.1
12-May-05	3	1	1	3	3	4	6	4	5	4	2	1	0	4	4	4	6	6	12	13	7	6	5	3	4.5	13.1
13-May-05	2	3	1	0	0	0	0	1	2	2	4	3	4	3	4	4	4	5	5	4	8	8	8	4	3.3	7.8
14-May-05	4	4	4	4	5	6	8	10	11	15	18	15	16	9	3	1	2	11	9	5	8	7	7	9	7.9	18.2
15-May-05	10	6	5	8	9	12	15	2	4	7	3	1	0	1	1	1	2	8	3	6	10	11	3	2	5.5	14.8
16-May-05	10	6	5	5	6	8	11	9	3	1	0	0	0	0	0	D	0	0	D	0	0	6	5	4	3.7	11.4
17-May-05	3	1	0	0	1	1	3	2	2	2	10	7	5	2	0	0	1	0	1	2	2	1	1	1	2.0	10.3
18-May-05	1	1	0	1	0	0	0	2	1	0	C	C	C	C	C	C	D	0	0	0	0	D	D	D	N	1.5
19-May-05	0	D	D	0	D	0	1	5	3	1	0	0	0	0	0	2	0	1	0	0	0	0	1	2	0.8	5.4
20-May-05	0	0	0	0	1	2	2	2	0	1	0	0	0	12	0	0	0	2	2	3	4	4	4	3	1.8	11.9
21-May-05	2	2	1	1	1	2	0	2	2	2	1	1	1	1	7	7	3	3	7	6	6	8	7	4	3.2	7.9
22-May-05	1	2	2	2	1	2	2	2	2	1	4	4	4	1	0	0	0	2	0	1	3	3	3	2	1.9	4.2
23-May-05	2	3	1	1	2	2	3	4	4	3	2	2	3	1	2	1	2	2	1	0	1	2	2	1	1.8	4.3
24-May-05	2	2	3	3	4	4	4	3	3	1	2	3	3	3	2	3	2	3	4	3	3	3	2	4	2.8	4.2
25-May-05	2	3	2	3	3	4	3	4	3	2	0	2	1	1	1	2	3	4	4	6	8	13	6	5	3.5	13.0
26-May-05	3	2	1	2	5	7	11	6	3	1	2	0	0	1	1	1	1	1	2	3	5	6	9	8	3.3	11.0
27-May-05	7	4	3	3	2	4	13	9	6	4	4	3	3	2	4	5	4	4	4	5	6	5	4	3	4.7	12.8
28-May-05	3	3	5	4	5	5	6	7	8	9	9	9	17	10	7	8	8	10	22	9	15	11	10	9	8.7	22.0
29-May-05	8	6	6	6	6	6	7	8	10	9	9	10	10	9	8	8	11	14	13	13	15	13	11	8	9.4	14.8
30-May-05	7	35	35	10	8	11	23	31	18	22	15	18	17	25	15	17	25	34	34	30	13	12	9	11	19.8	35.5
31-May-05	7	11	11	10	10	13	11	11	13	10	10	9	11	12	11	9	9	12	14	10	7	3	5	6	9.8	14.1
Hourly Avg	4.3	5.2	4.7	3.8	4.6	5.1	6.5	6.0	5.6	4.6	4.9	4.3	4.6	4.5	3.9	4.4	3.7	4.9	5.8	5.5	7.3	6.9	5.5	5.1		
Hourly Max	12.0	35.5	34.6	11.1	15.2	16.4	22.5	30.9	18.2	22.0	18.2	18.4	16.7	25.3	15.1	31.2	25.3	33.7	33.8	29.6	23.5	18.0	12.3	14.7		

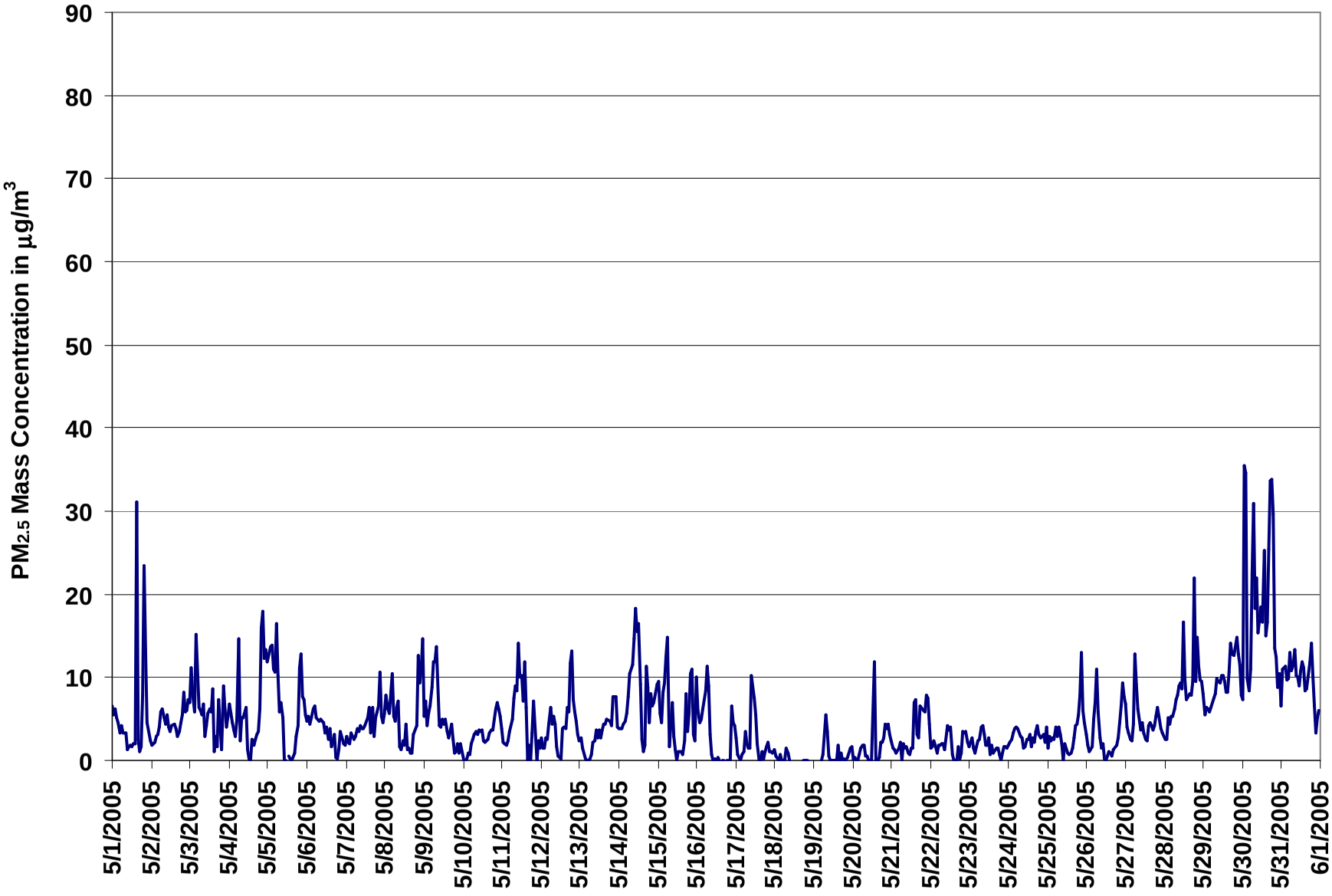


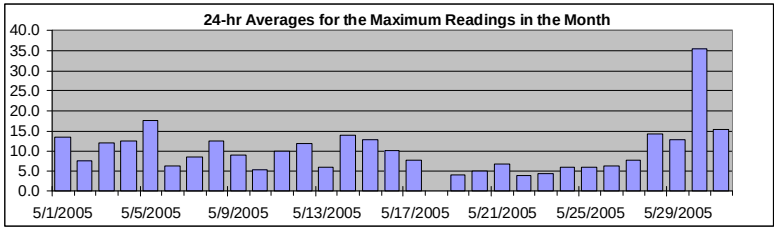
Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

HOURLY MAXIMUM TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Average:	170.0	µg/m³	30-May	1:00 2:00
Maximum 24-hr Value:	35.5	µg/m³	30-May	

AIC Time:	0 hrs	Operational Time:	728 hrs
Calibration Time:	6 hrs	AMD Operational Uptime:	98.7%

Percentile	99	95	75	50	25	5	1	Average	Geomean
	43.8	25.0	11.7	7.5	4.8	2.4	1.0	10.0 µg/m˘	8.9 µg/m˘

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	8	8	9	7	8	6	6	7	5	4	4	5	5	6	6	98	44	4	3	19	27	23	7	4	13.4	97.6
2-May-05	4	4	5	5	4	5	8	8	7	7	10	8	7	8	9	10	7	7	9	9	10	8	9	9	7.4	10.2
3-May-05	9	17	11	13	24	10	10	7	11	8	8	12	13	25	27	7	8	11	13	8	14	8	7	9	12.1	27.2
4-May-05	10	8	6	6	5	8	25	25	11	11	13	8	7	5	7	10	8	9	7	13	18	23	15	43	12.6	43.1
5-May-05	48	35	38	20	17	24	22	11	12	8	5	9	D	8	9	5	8	10	12	43	32	9	10	8	17.5	48.2
6-May-05	6	7	6	8	9	9	7	7	6	7	6	5	5	4	7	6	7	12	5	3	4	7	6	4	6.3	12.0
7-May-05	5	4	4	8	5	4	5	5	5	6	9	8	9	10	13	9	15	9	13	11	9	15	11	9	8.4	14.6
8-May-05	12	11	10	9	24	7	7	9	15	6	14	13	10	14	8	8	7	7	13	9	20	12	19	38	12.4	37.6
9-May-05	13	13	7	10	8	12	13	15	24	14	8	9	8	9	7	6	7	8	5	4	2	4	3	4	8.9	24.1
10-May-05	1	1	2	3	3	4	4	4	5	4	6	9	7	4	5	5	8	6	6	7	8	8	7	7	5.3	8.6
11-May-05	5	4	4	3	4	9	9	11	12	12	19	15	17	12	24	24	8	6	2	8	11	9	6	4	10.0	24.4
12-May-05	7	5	6	8	6	9	10	7	8	10	10	15	13	13	13	13	14	12	39	30	10	11	7	5	11.7	39.2
13-May-05	4	4	4	2	1	1	2	3	5	4	7	6	8	7	6	9	8	9	10	7	10	9	10	6	6.0	10.3
14-May-05	6	6	6	6	7	7	11	14	15	21	25	25	24	17	11	12	9	41	23	8	10	9	10	12	14.0	40.7
15-May-05	18	13	10	10	13	17	17	16	10	15	9	14	9	11	6	8	10	25	12	9	18	22	8	6	12.7	25.5
16-May-05	18	10	10	10	10	13	19	13	7	4	3	6	11	6	10	D	10	13	D	5	5	11	17	10	10.1	19.3
17-May-05	9	5	5	3	5	3	6	7	8	4	48	12	12	8	8	8	8	5	6	5	4	2	3	4	7.8	47.9
18-May-05	3	4	2	3	1	1	1	4	5	5	C	C	C	C	C	C	D	3	1	4	3	D	D	D	N	5.3
19-May-05	0	D	D	0	D	0	5	8	5	4	1	2	1	3	1	18	16	5	1	3	2	3	4	4	4.0	17.6
20-May-05	3	2	1	2	2	3	4	3	2	3	2	2	1	44	3	3	2	7	6	5	6	5	7	4	5.1	43.9
21-May-05	4	3	3	3	3	5	4	5	3	4	3	2	3	4	19	14	6	7	13	11	11	15	12	8	6.8	18.7
22-May-05	4	3	4	4	2	3	4	3	4	4	7	6	7	3	1	2	2	3	3	4	5	6	5	3	3.9	7.5
23-May-05	3	5	4	3	4	5	6	6	7	6	4	4	6	4	5	3	6	5	4	2	3	4	3	4	4.4	6.8
24-May-05	4	4	5	6	5	7	6	6	5	6	5	7	6	7	5	5	5	10	9	6	5	6	7	9	6.1	9.6
25-May-05	3	5	4	5	5	6	4	6	7	5	4	4	3	3	3	4	4	6	6	7	14	20	11	7	6.1	20.2
26-May-05	7	5	2	5	8	12	16	11	6	4	7	4	2	4	4	3	2	3	4	4	6	9	12	10	6.2	15.8
27-May-05	9	6	6	5	4	7	23	15	15	6	6	6	6	5	7	7	6	6	6	8	8	8	6	5	7.7	23.0
28-May-05	4	4	11	8	7	7	8	10	10	11	13	11	36	13	10	15	14	22	36	12	38	13	13	19	14.2	37.9
29-May-05	13	7	11	8	8	9	10	11	12	11	11	13	12	12	12	12	16	26	18	18	18	14	15	10	12.8	26.2
30-May-05	9	170	59	20	12	20	41	42	29	27	20	21	21	61	20	25	37	38	42	42	32	33	16	14	35.5	170.0
31-May-05	14	15	16	14	15	19	15	16	17	15	17	16	19	22	17	13	12	17	21	19	16	7	9	9	15.5	22.0
Hourly Avg	8.5	13.0	9.0	7.0	7.7	8.1	10.6	10.2	9.4	8.2	10.2	9.2	10.0	11.8	9.4	12.4	10.5	11.5	11.5	11.1	12.3	11.1	9.2	9.5		
Hourly Max	48.2	170.0	59.5	20.3	24.1	23.5	41.1	41.8	28.9	26.7	47.9	25.1	35.9	60.9	27.2	97.6	44.4	40.7	42.5	43.5	37.9	32.6	18.6	43.1		

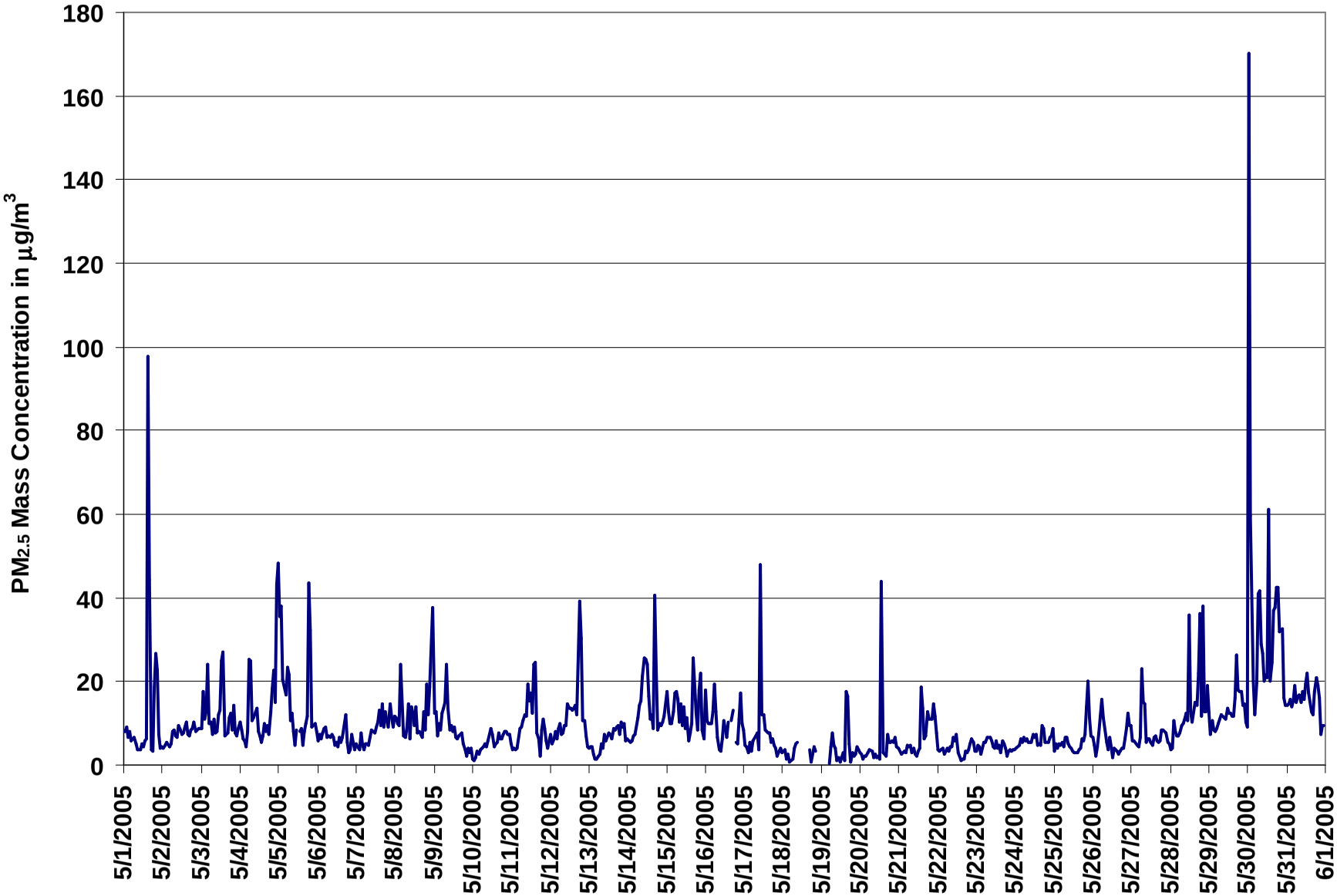
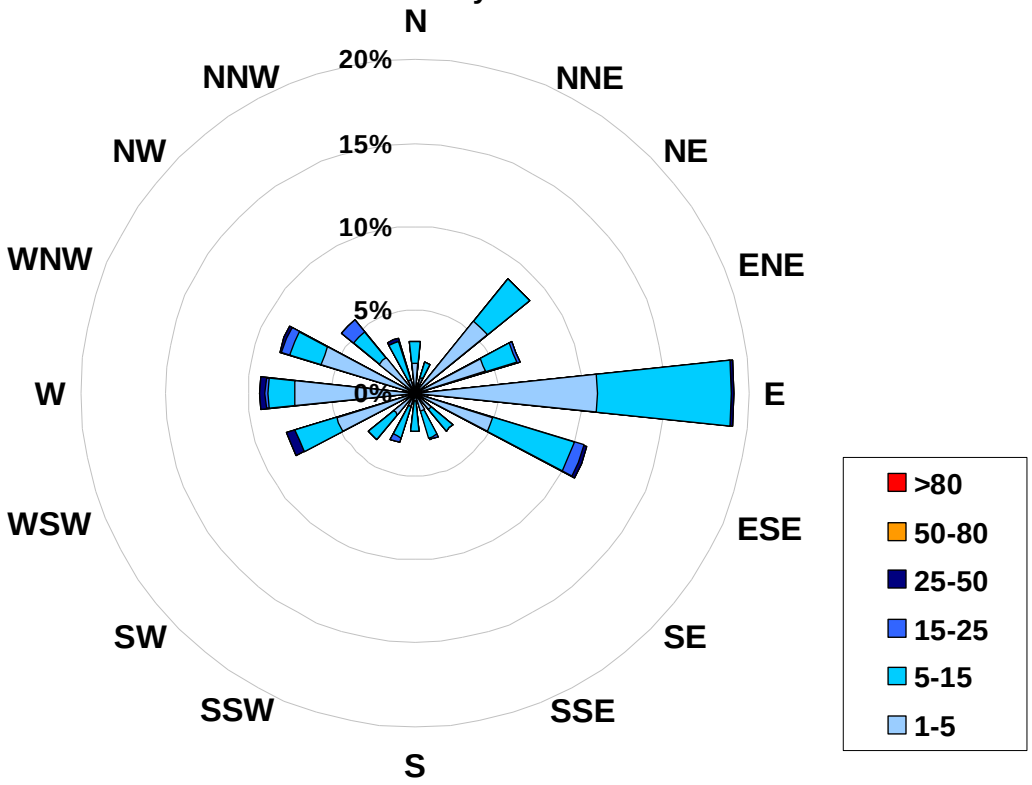


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Maximum Value Monthly Trend

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 May 2005



Calms:	0%

Frequency Distribution of $PM_{2.5}$ in $\mu g/m^3$			
Range			Frequency (hrs)
1.0	<	5	455
5	to	15	246
15	to	25	18
25	to	50	9
50	to	80	0
	>	80	0
Total Non-Zero Values			728

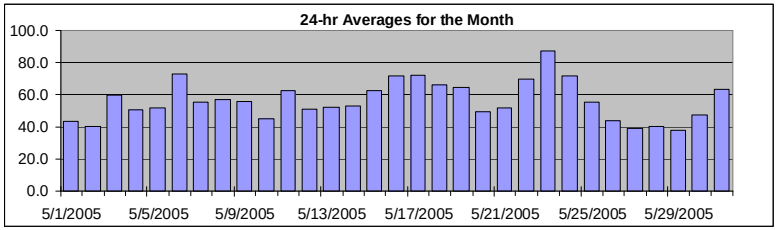
PASZA - Henry Pirker Relative Humidity Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Average:	95.9	%	15-May	4:00 5:00
Maximum 24-hr Value:	87.3	%	23-May	

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
	92.4	89.6	72.8	55.2	40.6	23.9	21.0	56.4 %

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	44	48	52	54	59	64	61	54	51	45	38	36	34	33	31	30	28	28	30	34	40	44	47	51	43.2	63.8
2-May-05	54	55	59	62	63	64	60	57	52	45	40	34	29	26	25	24	22	21	22	23	29	34	36	40	40.7	63.8
3-May-05	44	50	51	47	69	82	80	77	76	68	57	48	41	39	54	46	44	43	53	53	65	75	79	87	59.4	86.8
4-May-05	91	92	94	93	93	92	83	67	59	51	45	39	32	25	23	23	21	21	20	22	27	32	34	40	50.8	93.6
5-May-05	51	54	57	64	61	65	85	83	77	71	58	45	35	32	30	23	22	24	27	33	53	59	65	69	51.8	84.8
6-May-05	74	76	77	78	82	87	87	85	87	88	86	84	86	85	85	79	74	64	58	49	46	46	45	44	73.1	87.8
7-May-05	49	53	55	55	57	60	60	61	59	58	57	56	51	51	53	46	46	44	43	50	55	66	70	73	55.4	73.2
8-May-05	78	86	91	91	92	93	92	89	80	60	44	39	34	33	29	26	25	23	24	25	41	49	55	69	57.0	93.4
9-May-05	74	79	83	84	86	85	77	69	58	50	44	43	40	41	39	39	39	40	42	42	44	47	51	54	56.2	86.1
10-May-05	52	49	50	51	52	55	54	53	51	48	45	42	40	37	35	34	34	34	35	38	42	47	52	57	45.4	57.1
11-May-05	59	61	64	67	68	70	67	61	57	56	56	57	56	53	60	78	69	60	60	60	67	67	63	69	62.7	78.5
12-May-05	77	77	79	80	81	81	75	67	60	52	43	36	31	26	25	23	23	22	25	38	43	49	53	58	50.9	80.6
13-May-05	62	67	72	74	74	75	69	64	63	59	56	51	47	43	39	37	35	35	34	34	36	40	44	45	52.3	74.6
14-May-05	47	47	49	52	53	55	53	52	48	44	42	39	43	46	40	36	34	44	65	65	75	81	82	87	53.3	87.4
15-May-05	91	92	94	95	96	95	90	73	61	60	54	46	39	37	35	33	31	34	44	46	49	67	73	72	62.8	95.9
16-May-05	81	82	84	90	91	89	89	91	92	90	84	80	70	67	59	51	49	48	43	47	52	57	64	67	71.6	92.1
17-May-05	71	71	73	74	72	75	74	73	66	64	65	70	77	78	74	72	69	68	67	70	74	78	80	80	72.3	80.0
18-May-05	81	82	83	85	84	84	83	81	73	64	58	56	56	52	51	49	51	50	50	53	62	67	70	74	66.5	84.6
19-May-05	79	82	86	86	85	86	89	82	74	64	56	48	44	46	44	47	77	58	41	41	49	52	63	72	64.6	88.6
20-May-05	70	66	71	74	78	76	67	62	50	42	40	38	37	34	32	31	31	32	30	30	43	48	53	59	49.6	78.4
21-May-05	62	64	68	70	71	71	65	62	59	48	42	38	35	35	31	31	28	26	38	46	52	62	65	71	51.7	71.1
22-May-05	74	76	76	76	75	76	73	67	64	59	58	56	61	75	68	63	62	58	65	69	77	79	81	87	69.8	86.5
23-May-05	88	89	91	90	91	91	91	92	92	90	90	89	88	84	82	81	79	84	86	84	84	87	87	87	87.3	91.8
24-May-05	86	88	89	89	91	91	87	80	74	66	55	54	64	69	63	64	54	55	53	58	71	71	74	78	71.8	90.7
25-May-05	81	90	90	92	91	89	81	76	66	57	39	39	35	32	29	25	25	28	30	33	41	55	53	60	55.7	92.1
26-May-05	65	63	65	70	82	82	68	58	52	45	38	30	24	21	21	21	22	22	23	25	32	37	45	50	44.2	82.3
27-May-05	55	53	54	55	56	63	62	55	43	37	33	27	23	21	21	22	23	23	24	27	33	39	42	45	38.9	62.8
28-May-05	47	50	54	58	60	61	59	55	52	47	43	38	33	29	25	24	23	23	24	26	30	34	38	38	40.5	61.0
29-May-05	40	43	45	46	50	51	50	48	45	41	38	35	32	28	24	20	21	23	25	30	37	41	46	48	37.7	51.3
30-May-05	52	61	72	81	80	77	69	59	50	41	34	30	27	25	23	23	25	26	32	40	45	62	59	54	47.8	80.8
31-May-05	56	54	62	65	68	81	82	76	68	67	56	53	45	41	40	40	41	43	52	84	89	87	87	89	63.5	89.1
Hourly Avg	65.6	67.8	70.5	72.5	74.5	76.3	73.6	68.7	63.2	57.3	51.4	47.6	44.8	43.3	41.6	40.1	39.6	38.8	40.8	44.4	51.0	56.7	59.9	63.6		
Hourly Max	91.0	92.2	93.6	95.3	95.9	95.2	91.7	91.8	92.1	90.5	89.7	89.5	88.4	85.3	84.8	80.8	78.7	84.0	86.5	84.0	89.1	87.5	87.4	88.7		

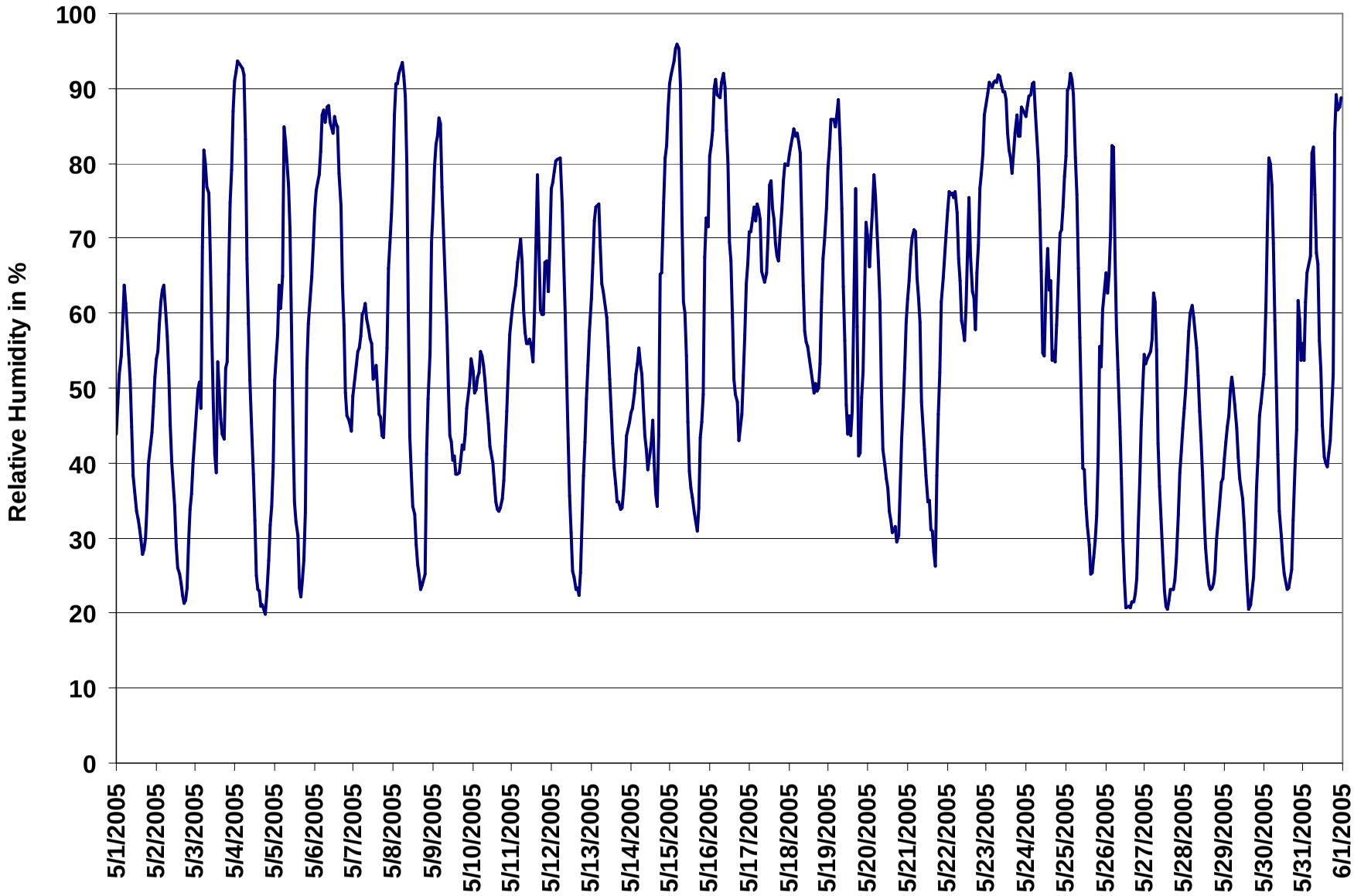


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

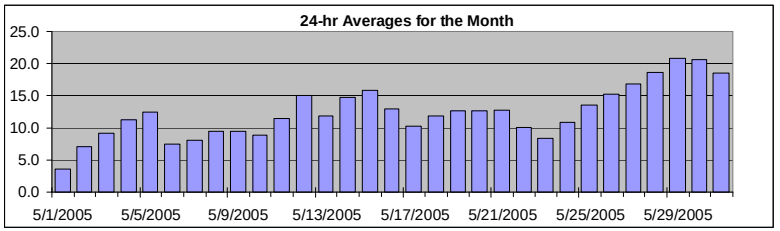
PASZA - Henry Pirker Temperature Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Average:	29.5	°C	30-May	14:00 15:00
Maximum 24-hr Value:	20.7	°C	29-May	

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
	28.3	23.3	16.6	11.5	8.1	2.6	-1.5	12.4 °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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	-1	-2	-2	-2	-2	-3	-2	1	2	4	5	6	7	8	9	9	9	9	9	8	6	4	3	1	3.6	9.5
2-May-05	0	0	-1	-2	-2	-2	0	1	4	6	8	11	12	14	14	15	15	15	14	13	11	9	8	7	7.1	14.8
3-May-05	6	6	5	6	6	6	6	6	7	8	11	13	15	15	12	13	14	13	11	11	9	8	7	5	9.2	15.2
4-May-05	4	3	2	2	1	0	3	7	9	12	14	16	17	17	19	19	19	19	19	17	15	13	12	11	11.2	19.1
5-May-05	8	7	6	6	7	8	8	9	10	12	15	17	18	19	19	19	19	18	17	16	14	12	10	10	12.5	19.1
6-May-05	9	8	8	7	7	6	6	6	6	6	6	7	6	7	7	8	8	9	10	10	9	9	9	8	7.6	9.8
7-May-05	7	6	6	6	6	5	5	5	6	7	8	8	10	11	11	12	12	12	12	11	10	8	7	6	8.2	12.5
8-May-05	4	3	1	1	0	0	1	3	7	11	13	15	14	15	17	18	17	17	17	16	13	11	9	7	9.6	17.7
9-May-05	4	2	1	1	1	1	4	7	11	13	14	15	16	16	17	16	16	15	14	12	10	9	7	6	9.5	16.6
10-May-05	5	4	3	2	1	2	3	4	5	6	8	11	13	14	15	15	16	16	15	15	13	11	9	8	8.8	15.7
11-May-05	8	7	7	5	5	5	6	9	11	12	13	13	15	16	15	13	15	17	16	16	15	13	12	10	11.4	16.7
12-May-05	8	8	8	7	7	7	9	11	14	17	19	21	20	22	22	23	22	23	22	19	16	14	12	10	15.1	22.9
13-May-05	9	7	6	4	3	3	4	5	7	9	11	13	15	17	18	19	20	20	20	18	16	15	14	12	11.9	20.0
14-May-05	11	10	9	8	8	7	9	11	14	17	18	20	19	20	21	22	23	20	17	17	15	14	13	12	14.8	22.9
15-May-05	11	10	8	8	7	7	9	13	16	16	18	21	22	23	22	23	24	23	20	19	18	16	14	13	15.9	24.0
16-May-05	12	12	11	10	9	10	10	11	11	11	11	12	14	14	17	18	18	18	18	16	14	12	11	10	12.9	18.2
17-May-05	10	10	9	8	9	9	9	9	10	11	11	11	11	11	12	12	12	13	12	11	10	9	9	8	10.3	12.6
18-May-05	8	8	7	7	7	7	7	7	9	12	13	14	15	16	17	17	16	17	17	16	14	12	11	11	11.9	17.3
19-May-05	10	10	9	8	8	8	8	10	12	14	16	18	18	17	18	16	11	15	17	17	14	13	10	8	12.7	17.9
20-May-05	8	8	7	6	5	6	9	11	13	15	15	16	16	17	17	17	17	17	17	17	14	12	10	9	12.6	17.3
21-May-05	9	8	7	6	6	6	8	10	11	15	16	17	18	18	19	19	19	21	17	15	13	11	10	9	12.8	20.5
22-May-05	9	8	8	8	8	8	8	10	11	13	13	14	13	10	11	12	12	13	11	10	10	9	9	8	10.1	13.7
23-May-05	8	8	8	7	7	7	7	8	8	8	8	8	9	10	10	10	10	9	9	9	9	8	8	8	8.4	10.2
24-May-05	8	8	8	8	8	8	9	10	11	13	14	14	13	13	14	13	15	13	13	13	10	10	9	8	10.9	14.9
25-May-05	7	5	5	4	4	5	7	10	13	15	17	18	19	19	20	20	21	21	20	19	17	14	13	11	13.5	20.8
26-May-05	10	10	9	7	5	5	10	12	14	16	18	19	21	22	22	23	22	22	21	20	18	16	13	12	15.3	22.5
27-May-05	10	10	10	10	9	8	9	12	15	18	20	21	22	23	24	24	24	24	23	22	19	17	15	15	16.9	24.0
28-May-05	14	13	12	11	10	10	11	13	15	18	20	22	23	25	26	26	26	26	25	25	22	20	19	17	18.6	26.1
29-May-05	16	15	13	13	12	12	13	15	18	20	22	24	26	28	29	30	28	29	28	26	23	21	19	18	20.7	29.5
30-May-05	17	15	11	10	9	10	14	18	21	24	26	27	28	29	30	29	29	28	25	22	21	18	18	18	20.7	29.5
31-May-05	18	18	17	16	16	14	14	15	17	19	21	23	25	25	26	26	24	23	20	14	14	14	13	13	18.5	26.0
Hourly Avg	8.6	7.9	7.0	6.4	6.0	5.9	7.2	9.0	10.9	12.8	14.4	15.6	16.5	17.1	17.7	17.9	17.9	17.8	17.0	15.8	14.0	12.2	11.1	10.0		
Hourly Max	18.1	18.1	16.8	15.9	15.7	14.0	13.7	17.9	21.2	24.2	25.9	27.3	28.0	28.7	29.5	29.5	28.7	28.7	27.7	26.2	23.3	21.3	19.0	18.4		

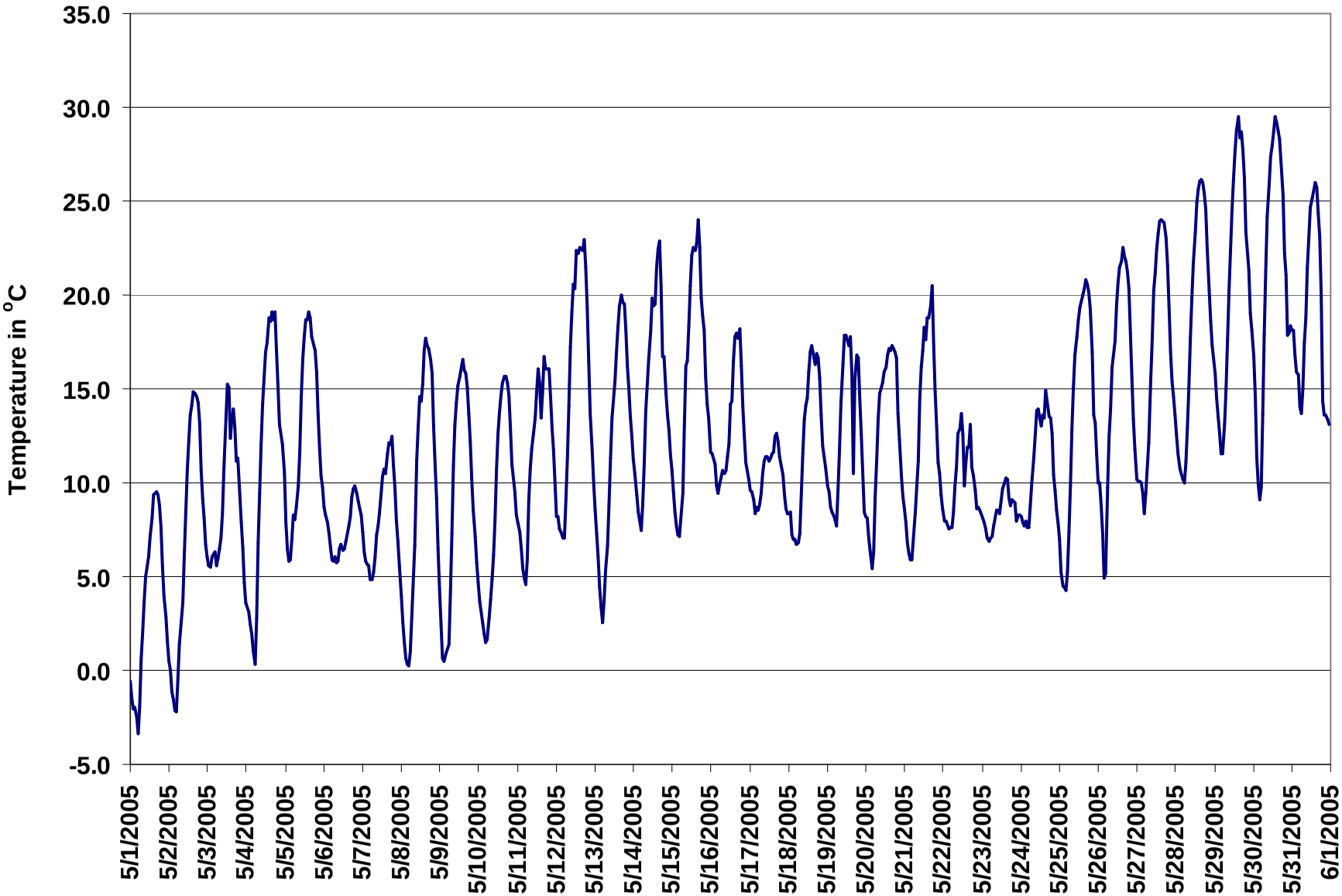


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

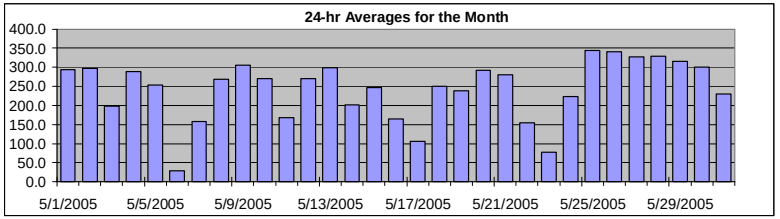
PASZA - Henry Pirker Solar Radiation Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Solar Radiation (SR)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Average:	885.7	W/m²	25-May	13:00 14:00
Maximum 24-hr Value:	344.5	W/m²	25-May	

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
	862.4	794.7	454.3	120.9	0.0	0.0	0.0	242.7 W/m²

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	0	0	0	0	0	8	118	238	353	545	687	766	806	804	765	673	547	402	247	95	8	0	0	0	294.2	806.0
2-May-05	0	0	0	0	0	12	131	241	430	572	687	766	805	803	743	641	545	407	244	97	7	0	0	0	297.1	804.8
3-May-05	0	0	0	0	0	2	20	33	140	370	674	755	766	469	432	408	330	175	49	122	7	0	0	0	198.0	765.6
4-May-05	0	0	0	0	0	16	138	246	430	566	680	765	819	682	747	617	514	386	244	58	6	0	0	0	288.1	819.4
5-May-05	0	0	0	0	0	1	26	116	200	406	646	704	832	794	649	660	600	241	149	60	5	0	0	0	253.8	831.7
6-May-05	0	0	0	0	0	7	40	43	42	63	77	62	49	45	37	29	56	63	48	22	4	0	0	0	28.6	77.3
7-May-05	0	0	0	0	0	7	37	93	149	256	253	397	551	390	308	388	363	256	272	55	11	0	0	0	157.8	551.2
8-May-05	0	0	0	0	0	19	56	94	336	594	708	779	393	562	796	751	527	439	271	121	17	0	0	0	269.3	795.5
9-May-05	0	0	0	0	0	21	145	253	437	582	696	771	810	804	763	682	557	415	261	120	17	0	0	0	305.6	810.0
10-May-05	0	0	0	0	0	18	51	167	227	333	540	775	814	813	771	672	535	387	263	121	18	0	0	0	271.1	814.4
11-May-05	0	0	0	0	0	13	118	242	352	398	443	301	420	348	161	165	414	377	140	104	20	0	0	0	167.4	443.3
12-May-05	0	0	0	0	0	22	159	264	452	588	701	729	486	867	599	470	422	435	159	124	13	0	0	0	270.6	867.1
13-May-05	0	0	0	0	1	23	163	265	454	593	688	772	799	811	759	659	489	313	282	90	14	0	0	0	298.9	811.3
14-May-05	0	0	0	0	1	22	158	227	365	457	486	518	252	372	465	593	513	125	143	121	16	1	0	0	201.5	593.3
15-May-05	0	0	0	0	2	49	125	272	417	328	537	759	830	732	431	431	566	279	125	49	3	0	0	0	247.3	830.2
16-May-05	0	0	0	0	0	9	13	50	76	126	205	269	523	312	560	592	450	285	324	150	17	0	0	0	165.1	591.7
17-May-05	0	0	0	0	0	7	30	65	141	174	133	101	182	331	244	211	353	294	201	62	9	0	0	0	105.7	353.3
18-May-05	0	1	0	0	0	16	65	123	286	419	580	533	673	711	738	569	370	436	315	144	27	0	0	0	250.2	738.3
19-May-05	0	0	0	0	2	25	93	255	480	454	739	826	503	754	315	65	202	498	313	164	24	0	0	0	238.0	826.2
20-May-05	0	0	0	0	3	25	197	247	492	634	737	739	665	756	700	533	447	359	289	182	20	0	0	0	292.7	755.9
21-May-05	0	0	0	0	4	56	141	206	275	670	766	779	725	435	620	555	580	572	218	107	11	1	0	0	280.0	779.1
22-May-05	0	0	0	0	3	23	70	206	243	499	256	319	225	376	356	335	242	323	167	58	19	0	0	0	155.0	499.4
23-May-05	0	0	0	0	0	15	21	37	57	93	138	97	194	293	194	264	219	131	52	31	28	1	0	0	77.7	292.8
24-May-05	0	0	0	0	2	23	130	182	366	482	523	546	465	550	439	563	579	197	219	100	17	2	0	0	224.3	579.0
25-May-05	0	0	0	0	4	27	202	300	506	642	763	848	871	886	862	781	668	473	285	126	21	2	0	0	344.5	885.7
26-May-05	0	0	0	0	5	27	200	295	499	637	743	826	870	869	816	734	614	480	327	178	32	2	0	0	339.8	870.4
27-May-05	0	0	0	0	6	39	147	291	479	546	775	735	863	864	822	726	608	488	307	137	31	2	0	0	327.7	864.0
28-May-05	0	0	0	0	7	30	151	259	434	618	738	790	821	868	790	770	615	476	325	176	32	3	0	0	329.3	868.5
29-May-05	0	0	0	0	6	32	192	290	487	627	735	806	843	845	802	728	330	443	249	140	13	2	0	0	315.4	844.7
30-May-05	0	0	0	0	6	37	194	297	478	618	728	807	827	825	795	602	457	329	119	78	4	0	0	0	300.0	827.0
31-May-05	0	0	0	0	0	10	46	145	186	456	544	674	849	752	757	624	299	151	25	4	0	0	0	0	230.2	849.0
Hourly Avg	0.0	0.0	0.0	0.0	1.7	20.6	109.0	194.9	331.3	462.8	567.9	623.0	630.1	636.2	588.3	532.0	452.1	343.1	214.0	103.1	15.1	0.5	0.0	0.0		
Hourly Max	0.1	0.6	0.0	0.0	6.5	55.7	202.5	299.9	505.6	669.9	775.4	847.8	870.7	885.7	862.2	781.3	668.4	571.9	327.4	182.2	32.3	3.2	0.1	0.1		

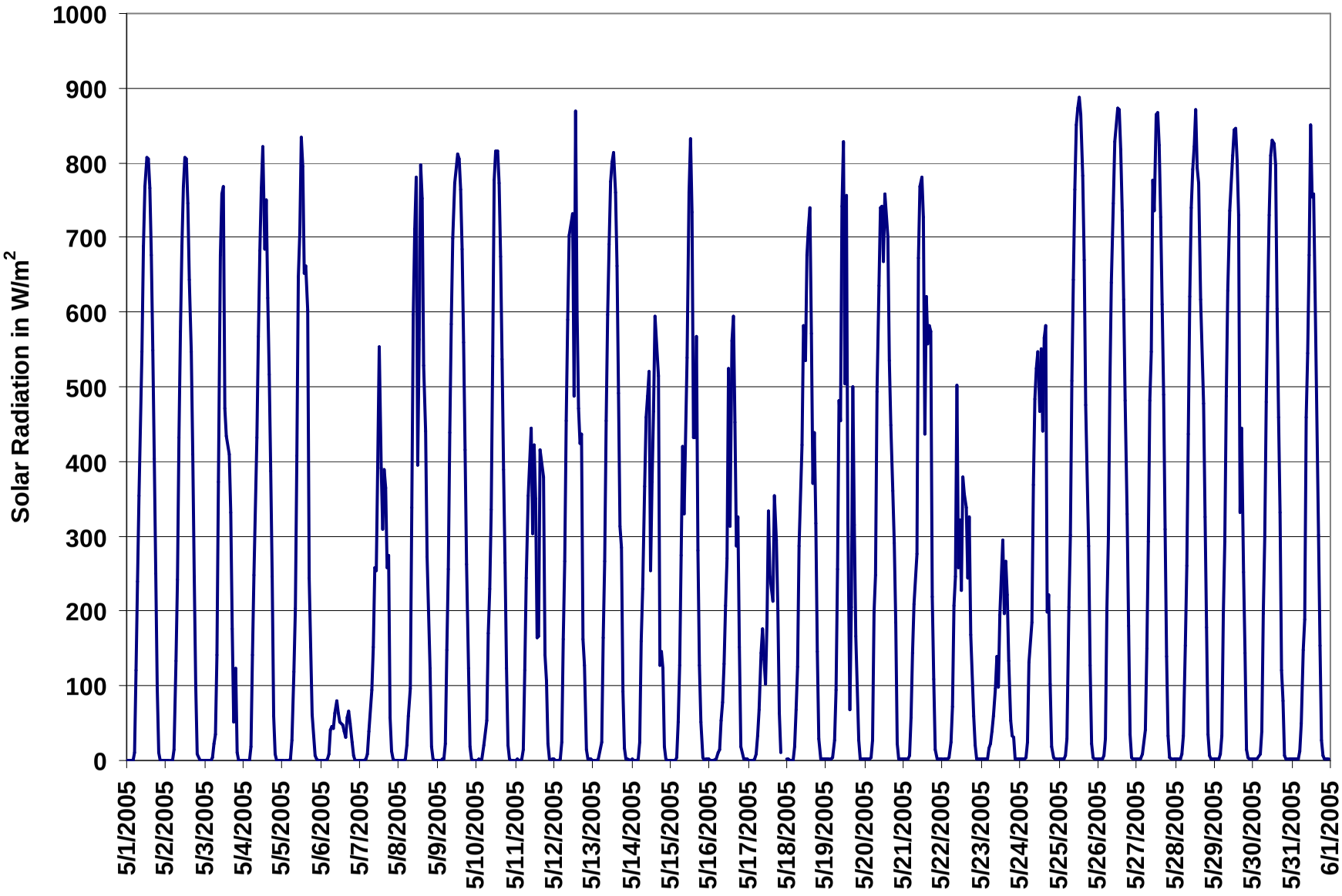


Figure 19. PASZA - Henry Pirker Solar Radiation 1-hr Average Monthly Trend

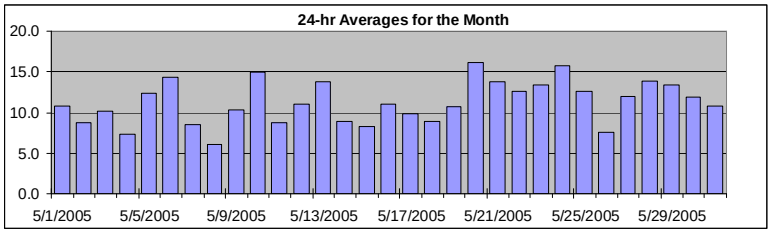
PASZA - Henry Pirker Scalar Wind Speed Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Average:	28.8	km/hr	22-May	13:00 14:00
Maximum 24-hr Value:	16.1	km/hr	20-May	

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
	26.0	19.8	14.1	10.5	7.6	4.7	3.8	11.2 km/hr

Status Flag Characters

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

Day — **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hr Scalar Average	Daily Max
1-May-05	9	7	9	9	8	7	7	11	10	12	15	14	14	13	12	12	13	12	12	12	10	10	11	9	10.8	15.2
2-May-05	8	6	5	6	7	7	9	10	9	9	10	11	10	9	9	9	11	11	9	8	7	11	12	7	8.7	12.2
3-May-05	7	8	6	7	12	9	8	6	9	13	10	7	7	10	26	14	12	13	20	14	10	7	5	4	10.2	25.7
4-May-05	5	5	5	6	5	4	3	8	9	8	8	9	10	11	9	11	9	9	5	5	8	8	10	6	7.3	11.2
5-May-05	5	7	5	8	7	15	8	8	11	9	12	15	15	14	16	19	24	20	17	13	11	12	12	13	12.3	23.6
6-May-05	13	12	15	15	18	19	17	19	17	16	15	17	15	17	12	12	13	15	10	11	10	10	13	9	14.3	19.0
7-May-05	11	13	11	9	9	8	8	8	9	10	10	9	8	9	9	7	7	8	6	9	8	6	7	6	8.5	12.9
8-May-05	5	3	5	4	4	4	5	5	5	5	7	7	8	8	7	7	7	7	7	8	10	8	6	4	6.1	9.7
9-May-05	5	5	6	7	5	6	5	6	4	9	11	12	13	14	15	16	16	16	16	15	12	12	12	11	10.3	16.0
10-May-05	11	11	11	10	12	12	16	18	18	17	18	16	19	18	18	18	17	16	19	16	12	11	11	12	14.9	19.1
11-May-05	13	11	9	8	6	4	6	5	5	8	9	8	9	9	15	16	13	7	9	7	8	9	7	8	8.7	15.9
12-May-05	6	6	7	8	7	7	7	13	12	11	14	14	12	14	13	9	11	10	12	14	14	15	14	14	11.0	15.3
13-May-05	14	11	13	12	9	9	12	13	14	14	14	15	16	15	15	15	15	16	17	14	13	14	13	15	13.7	16.8
14-May-05	13	14	13	10	9	7	8	5	4	4	6	5	9	9	6	10	9	12	17	13	9	9	7	6	8.9	17.3
15-May-05	5	4	4	5	4	5	3	4	4	7	7	9	12	12	10	7	11	15	17	11	11	15	9	6	8.3	17.2
16-May-05	5	5	5	6	5	8	14	16	18	18	17	14	11	11	10	14	12	9	16	19	10	7	9	7	11.1	18.7
17-May-05	6	7	9	7	10	9	8	11	15	15	14	9	7	9	13	11	13	13	13	11	9	5	7	5	9.8	15.1
18-May-05	6	8	8	9	10	9	9	7	6	5	5	6	7	7	9	9	11	13	13	12	11	11	11	12	8.9	13.2
19-May-05	10	6	10	9	10	9	8	9	9	6	7	8	11	15	10	12	16	16	18	14	13	15	8	6	10.6	18.4
20-May-05	7	7	5	6	6	9	12	13	21	24	25	26	26	26	26	25	20	17	20	18	13	13	10	11	16.1	26.2
21-May-05	11	11	10	9	7	7	13	18	23	23	22	20	17	14	20	20	17	14	14	12	8	6	6	7	13.7	23.4
22-May-05	9	8	8	7	10	7	8	12	12	13	8	6	16	29	23	19	12	13	28	17	12	4	10	11	12.5	28.8
23-May-05	11	6	9	8	9	10	9	10	11	12	16	14	15	20	18	20	26	23	19	15	12	10	10	9	13.4	26.3
24-May-05	10	8	8	10	10	8	9	12	13	16	17	19	21	18	23	27	26	23	17	19	19	17	14	12	15.8	27.1
25-May-05	7	3	5	6	7	9	12	13	13	13	18	18	19	20	22	24	20	17	14	11	6	6	7	6	12.5	23.6
26-May-05	5	8	6	4	5	4	4	7	10	9	9	8	7	8	10	7	9	9	11	12	11	9	7	6	7.6	12.0
27-May-05	4	6	7	9	10	9	6	7	12	13	15	16	15	14	15	16	16	15	16	15	12	13	12	13	11.9	15.9
28-May-05	11	8	8	10	11	11	12	13	13	12	13	16	18	17	17	17	18	18	18	16	14	12	14	15	13.9	18.2
29-May-05	15	15	15	15	14	12	12	13	10	10	12	13	15	15	16	15	15	16	15	13	13	12	10	10	13.4	15.9
30-May-05	8	5	5	5	5	6	6	9	9	14	19	18	17	15	12	12	10	11	20	27	15	15	15	9	11.8	26.8
31-May-05	11	7	9	12	9	7	8	8	4	8	6	8	13	12	14	14	11	11	20	20	15	12	10	8	10.7	20.2
1-hr Average	8.6	7.8	8.2	8.2	8.4	8.3	8.9	10.2	11.0	11.7	12.5	12.6	13.3	14.0	14.4	14.3	14.1	13.7	15.0	13.7	11.1	10.5	9.8	9.0		
Hourly Max	14.7	14.8	15.0	15.1	18.3	18.8	17.2	19.0	23.3	23.8	24.9	26.2	26.0	28.8	25.7	27.1	26.3	23.5	27.6	26.8	18.9	17.2	14.5	15.4		

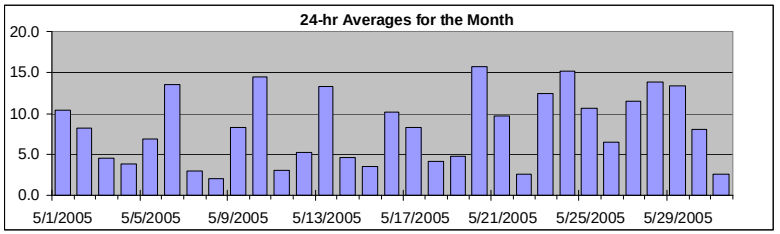
PASZA - Henry Pirker Vector Wind Speed Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Average:	28.5	km/hr	22-May	13:00 14:00
Maximum 24-hr Value:	15.7	km/hr	20-May	

Calm Time:	3 hrs	**0%** calms			Operational Time:		741 hrs	
Calibration Time:	0 hrs				AMD Operational Uptime:		100.0%	
Percentile	99	95	75	50	25	5	1	AverageV
	25.4	19.1	13.5	10.0	6.9	3.7	2.1	0.8 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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hr Vector Average	Daily Max
1-May-05	9	7	8	9	8	7	7	10	10	11	15	13	13	12	10	11	12	11	12	12	10	10	11	9	10.5	14.6
2-May-05	8	6	5	5	6	7	8	10	8	8	9	10	8	7	7	6	9	10	9	8	7	11	12	7	8.2	12.1
3-May-05	6	7	5	5	12	9	8	6	9	13	10	4	1	6	26	13	10	10	19	14	9	7	2	3	4.5	25.5
4-May-05	5	4	5	5	4	2	2	8	8	7	7	7	5	7	8	10	7	4	2	5	8	8	10	6	3.8	10.0
5-May-05	4	6	4	7	3	14	7	8	10	9	11	14	14	12	14	17	23	20	17	11	11	11	12	13	6.9	23.1
6-May-05	13	12	14	15	18	19	17	19	17	16	15	17	15	17	11	11	13	15	10	11	10	10	13	9	13.5	18.8
7-May-05	11	13	11	7	9	8	8	8	9	9	9	8	6	7	7	4	4	7	4	8	8	6	7	6	2.9	12.8
8-May-05	4	1	4	2	3	3	5	4	4	3	6	5	6	4	4	3	4	2	4	7	10	8	6	calm	2.1	9.6
9-May-05	4	4	6	7	5	4	3	4	3	8	10	11	12	13	14	15	15	15	16	15	12	12	12	11	8.3	15.7
10-May-05	11	11	11	10	12	12	16	17	18	17	18	16	19	18	17	17	16	16	18	16	12	11	11	12	14.4	18.7
11-May-05	13	11	9	8	6	4	6	4	4	7	8	7	8	8	14	15	12	5	8	7	7	8	7	7	3.1	15.0
12-May-05	5	6	7	7	7	7	6	13	12	10	13	13	11	14	12	7	9	8	11	14	14	15	13	14	5.2	15.1
13-May-05	13	11	13	11	9	9	12	13	13	14	13	15	16	15	15	15	15	16	17	14	13	14	13	14	13.3	16.5
14-May-05	13	14	13	10	9	7	8	4	3	2	5	3	8	8	4	9	7	6	17	13	9	9	6	6	4.6	16.9
15-May-05	4	4	1	5	3	5	2	3	3	6	5	9	10	11	7	5	10	15	17	11	7	14	9	6	3.6	17.0
16-May-05	4	4	5	5	5	7	13	16	18	18	17	14	11	11	9	13	10	7	15	19	10	7	8	7	10.2	18.6
17-May-05	6	6	9	7	10	9	8	10	15	14	14	9	6	8	13	11	12	12	13	11	9	4	6	5	8.3	15.0
18-May-05	5	8	8	9	10	9	9	6	5	3	3	2	5	3	7	7	10	13	12	12	11	11	11	11	4.2	12.5
19-May-05	7	5	9	9	9	8	8	8	9	5	3	6	10	13	9	10	16	15	18	13	12	13	6	6	4.7	18.1
20-May-05	7	7	4	5	6	8	12	13	21	24	24	25	25	25	25	24	20	16	20	17	13	13	10	11	15.7	25.5
21-May-05	11	11	8	8	7	7	13	17	23	23	21	19	17	13	19	20	16	10	13	12	8	4	5	6	9.7	23.1
22-May-05	8	8	8	7	10	7	8	12	12	12	7	5	16	28	22	18	12	12	27	16	11	3	9	11	2.6	28.5
23-May-05	10	6	8	8	8	10	8	9	11	12	16	13	15	20	17	20	26	23	19	15	12	10	10	9	12.4	26.1
24-May-05	10	7	8	9	10	7	9	12	13	15	17	19	21	18	23	27	26	23	17	19	19	17	13	11	15.1	26.7
25-May-05	6	3	5	6	7	9	12	12	13	13	18	18	19	20	22	23	20	17	14	11	6	4	7	6	10.6	23.1
26-May-05	5	7	6	3	4	3	calm	6	9	8	7	6	4	5	8	6	7	7	11	12	11	9	7	6	6.6	11.7
27-May-05	4	6	7	8	10	9	6	6	12	13	14	15	15	14	14	15	15	15	16	15	12	13	12	13	11.5	15.6
28-May-05	11	8	8	10	11	11	12	13	12	11	13	16	18	16	16	17	17	18	18	16	14	12	14	15	13.8	17.8
29-May-05	15	15	15	15	14	12	12	13	10	10	11	12	14	15	15	15	14	16	15	13	13	12	10	10	13.4	15.6
30-May-05	8	calm	4	4	4	5	4	9	9	14	18	17	17	15	11	11	9	10	19	26	11	14	12	8	8.1	25.7
31-May-05	9	4	9	12	9	4	7	8	3	8	4	7	12	12	13	14	11	11	13	20	13	10	7	8	2.7	19.7
1-hr Vector	2.9	2.5	3.0	1.6	1.6	1.2	0.7	1.2	1.2	1.2	1.0	0.5	1.2	1.5	2.7	2.9	2.0	1.7	1.1	1.3	2.7	2.4	3.1	2.3		
Hourly Max	14.7	14.7	15.0	15.1	18.1	18.6	17.1	18.8	23.1	23.5	24.4	25.4	25.5	28.5	25.5	26.7	26.1	23.3	27.3	25.7	18.9	16.9	13.7	15.3		

PASZA - Henry Pirker Wind Direction Monthly Summary

HOURLY AVERAGE TABLE

Wind Direction (WD)

Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: **May 1, 2005** to **June 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
	351.8	326.2	273.7	161.8	89.2	39.2	7.0	15 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 / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	WD Sector
1-May-05	75	60	68	71	68	58	64	96	106	96	96	89	91	95	87	90	68	65	79	67	63	73	87	88	81	E
2-May-05	87	64	40	40	61	71	85	108	102	101	91	95	103	77	89	52	67	58	56	55	50	61	66	71	74	ENE
3-May-05	7	341	353	0	326	328	8	90	126	150	164	140	283	280	285	234	225	275	252	220	226	242	283	188	261	W
4-May-05	170	192	207	201	196	314	321	239	244	235	215	203	220	256	288	262	236	228	56	109	103	106	113	116	214	SW
5-May-05	342	357	12	290	304	314	331	200	200	224	217	258	244	244	248	249	274	282	291	334	38	34	33	30	285	WNW
6-May-05	38	48	51	48	53	56	51	52	48	47	51	54	59	70	64	30	352	4	7	16	13	28	30	41	42	NE
7-May-05	32	33	35	91	52	39	40	48	47	51	90	118	135	130	194	183	158	162	218	248	238	181	216	226	96	E
8-May-05	321	190	301	320	154	216	339	277	204	158	144	150	133	89	83	170	76	1	10	68	92	103	115	297	107	ESE
9-May-05	335	315	318	299	288	84	141	280	358	79	58	45	50	45	42	48	44	42	46	47	45	48	43	53	41	NE
10-May-05	72	74	68	62	67	65	85	93	97	98	109	107	111	100	105	104	106	105	109	111	101	96	98	95	96	E
11-May-05	99	100	91	85	76	74	102	105	126	157	194	186	190	217	228	285	329	265	222	196	169	200	221	286	182	S
12-May-05	292	280	304	275	272	239	267	253	249	263	264	293	287	286	280	289	333	351	25	52	55	61	56	58	310	NW
13-May-05	54	60	67	70	62	60	66	80	82	83	93	85	96	95	94	91	90	94	107	101	95	92	92	105	86	E
14-May-05	102	94	96	93	92	91	98	125	280	203	154	208	194	270	261	271	248	217	179	155	160	162	145	155	155	SSE
15-May-05	198	307	2	170	196	144	213	234	258	191	135	117	116	131	136	150	97	104	102	95	222	279	358	8	133	SE
16-May-05	189	328	323	310	305	237	248	259	264	266	278	278	279	310	296	279	296	297	281	287	306	309	296	303	282	WNW
17-May-05	292	264	276	298	297	285	272	278	291	299	305	323	15	340	311	327	4	360	359	359	2	346	335	322	319	NW
18-May-05	278	298	327	322	319	328	349	313	297	247	290	208	185	36	51	65	88	77	66	60	58	65	67	65	28	NNE
19-May-05	107	17	15	5	31	166	155	147	168	245	212	272	276	299	298	219	179	206	252	242	240	266	310	279	243	WSW
20-May-05	241	239	235	226	212	243	243	240	247	251	254	261	260	266	260	261	249	235	270	267	280	251	238	242	253	WSW
21-May-05	244	249	287	266	264	316	276	268	260	268	283	265	274	280	253	252	263	281	34	53	34	86	50	40	276	W
22-May-05	98	111	102	87	87	82	99	98	101	116	169	130	215	251	295	324	309	250	258	302	329	326	248	272	264	W
23-May-05	326	303	243	236	243	247	264	291	311	323	314	295	291	294	287	256	272	292	294	289	295	275	257	276	284	WNW
24-May-05	265	276	295	271	254	256	282	293	289	294	287	284	265	246	250	255	277	282	271	250	250	256	294	289	270	W
25-May-05	349	275	320	256	280	261	260	249	273	267	300	292	297	299	303	295	298	300	314	350	335	322	72	72	297	WNW
26-May-05	82	75	65	39	304	348	154	113	107	103	133	108	85	75	87	54	70	75	74	85	80	90	102	101	86	E
27-May-05	95	89	95	101	101	112	147	149	124	120	111	104	102	102	88	88	86	87	87	88	83	87	88	90	98	E
28-May-05	89	80	87	90	90	90	96	107	105	107	101	100	106	103	102	104	101	105	103	102	99	100	104	105	100	E
29-May-05	101	97	96	98	105	99	101	110	108	106	108	99	95	100	105	101	101	92	92	95	97	99	107	100	100	E
30-May-05	91	101	340	301	308	302	304	255	281	301	306	302	309	303	294	304	269	260	239	257	129	348	300	210	287	WNW
31-May-05	343	118	254	259	249	254	222	262	331	305	15	76	90	97	56	44	43	36	213	262	339	324	347	252	323	NW
Hourly Avg	57	52	30	25	24	23	46	191	214	217	220	214	195	293	290	280	322	334	304	13	58	50	52	66		

PASZA - Henry Pirker Standard Deviation of Wind Direction Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: May 1, 2005 to June 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
	59.4	45.1	21.0	12.5	8.5	5.6	4.6

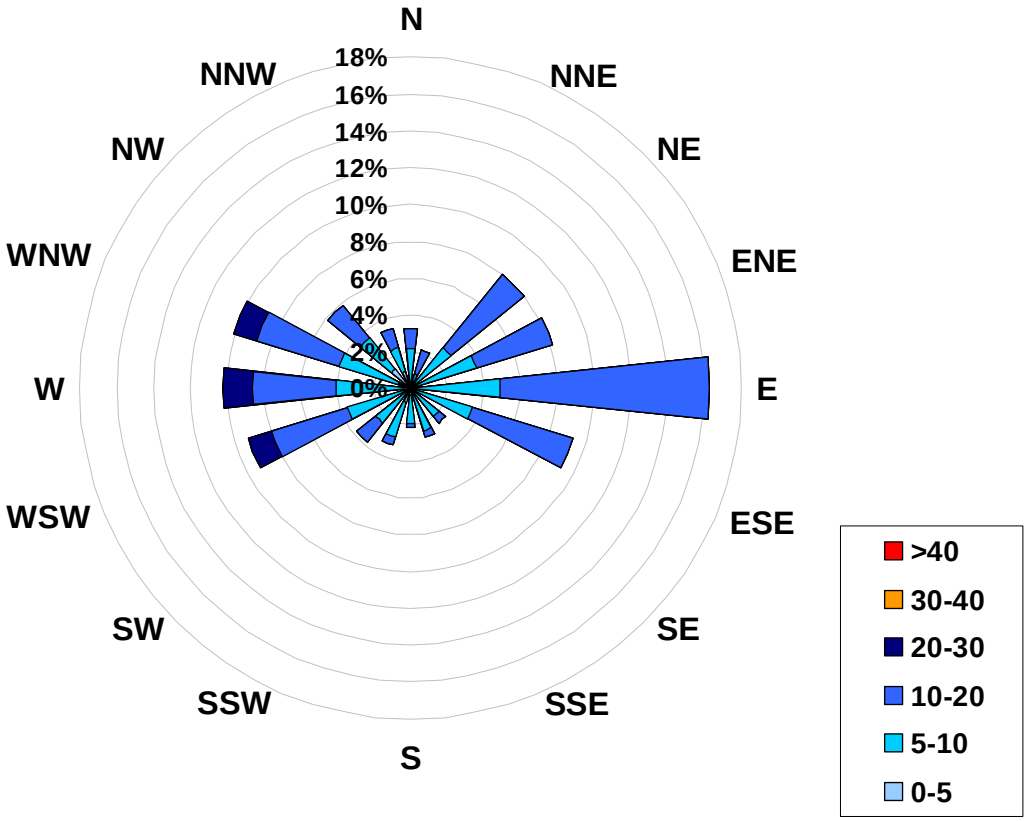
Status Flag Characters

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	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-May-05	5	11	7	7	7	9	9	10	17	18	17	21	20	19	30	27	21	19	17	12	8	6	5	5	30.2
2-May-05	5	11	11	11	10	8	13	14	17	21	23	26	41	45	42	44	28	23	15	16	12	8	7	14	44.6
3-May-05	16	21	21	44	15	7	9	13	8	10	31	51	43	57	8	17	25	23	12	13	9	8	33	35	57.5
4-May-05	12	40	21	15	11	22	47	15	16	22	21	41	65	54	46	26	26	49	55	30	5	5	3	29	65.2
5-May-05	17	24	21	17	51	37	31	14	13	16	19	17	19	28	29	18	12	10	9	13	10	10	9	10	51.0
6-May-05	9	12	8	10	9	7	8	9	8	9	10	7	9	8	12	11	9	5	8	7	6	10	8	11	11.7
7-May-05	10	8	9	23	9	10	13	14	14	16	17	23	52	31	25	56	50	38	36	13	11	13	11	11	55.7
8-May-05	30	54	24	29	24	18	12	29	25	59	39	52	57	57	61	65	47	48	37	18	7	6	10	43	65.2
9-May-05	9	17	10	8	9	22	39	22	56	29	21	21	18	21	17	13	14	13	11	11	9	11	10	10	56.0
10-May-05	7	6	7	10	9	8	6	7	8	9	12	11	13	18	17	18	18	12	10	8	6	5	6	4	18.4
11-May-05	5	6	7	7	13	26	15	41	49	23	27	19	24	17	13	9	10	34	14	14	10	12	9	15	49.3
12-May-05	27	10	12	10	11	8	11	8	9	22	17	18	24	19	19	44	25	29	12	8	9	8	9	9	44.2
13-May-05	10	11	9	9	10	13	9	12	12	15	15	12	13	15	16	13	12	10	9	8	6	5	5	5	16.3
14-May-05	5	5	6	8	8	12	12	37	31	72	36	38	34	18	50	24	44	46	9	10	9	8	15	7	72.3
15-May-05	25	26	49	18	41	27	63	47	33	35	30	20	23	22	45	39	29	13	6	9	29	12	7	23	63.0
16-May-05	38	34	25	23	17	21	15	8	6	7	7	13	17	18	30	24	20	44	14	5	6	5	5	9	43.7
17-May-05	13	14	8	5	6	6	8	8	6	8	7	10	17	18	12	14	14	11	8	7	6	26	9	12	25.9
18-May-05	13	7	7	7	7	8	9	16	33	42	49	52	52	61	33	39	21	16	15	12	10	9	8	8	61.0
19-May-05	25	28	8	7	13	21	12	15	18	44	61	43	29	22	34	25	10	11	10	8	8	8	34	19	61.2
20-May-05	15	10	30	22	19	18	8	11	10	8	11	14	11	11	10	12	12	17	9	12	5	6	6	7	29.9
21-May-05	7	9	17	15	22	13	10	7	7	9	14	16	17	25	17	10	17	35	17	10	20	26	16	19	34.8
22-May-05	12	10	13	11	6	10	11	8	11	16	22	39	22	7	8	12	16	21	7	7	7	24	7	8	39.3
23-May-05	7	18	11	10	10	7	9	9	6	7	6	7	8	6	10	7	7	6	5	5	6	8	6	10	18.0
24-May-05	10	9	10	10	7	12	7	12	12	11	9	11	12	10	10	7	7	6	7	6	5	10	26	16	25.6
25-May-05	15	36	23	12	11	7	7	8	11	16	14	16	12	13	12	12	11	12	11	9	17	15	13	14	35.6
26-May-05	16	6	9	29	31	20	36	19	16	26	29	41	59	56	38	43	44	32	17	11	8	7	7	6	59.5
27-May-05	12	10	8	9	6	9	15	18	12	12	14	13	19	15	16	16	15	12	11	7	7	5	6	5	18.7
28-May-05	6	9	7	5	5	6	7	8	10	16	15	11	11	15	14	11	11	12	8	7	6	6	6	5	15.5
29-May-05	5	5	4	5	5	6	8	8	16	17	17	16	14	14	14	15	10	10	7	6	5	5	6	6	17.1
30-May-05	9	32	31	20	44	15	20	14	12	12	10	13	14	15	22	19	22	16	14	24	29	17	16	18	44.0
31-May-05	35	47	8	7	10	45	20	12	34	14	38	25	16	18	18	14	19	14	32	6	14	28	24	16	47.3
Hourly Max	38	54	49	44	51	45	63	47	56	72	61	52	65	61	61	65	50	49	55	30	29	28	34	43	

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



Calms:	0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.0	<	5	49
5	to	10	300
10	to	20	363
20	to	30	32
30	to	40	0
	>	40	0
Total Non-Zero Values			744

PASZA - Evergreen Park Monthly Summary Tables, Graphs, and Roses

PASZA - Evergreen Park Sulphur Dioxide Monthly Summary

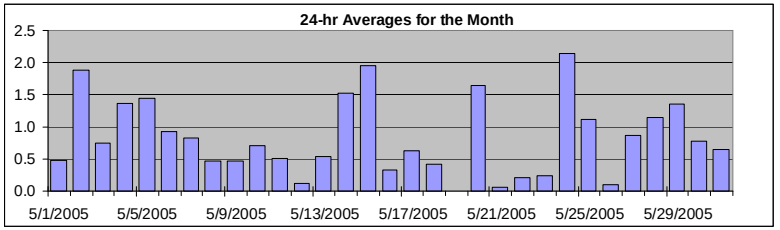
Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO_2)

Monitoring Dates: May 1, 2005 to June 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:	11.9	ppb	27-May	8:00 9:00
Maximum 24-hr Average:	2.1	ppb	24-May	

AIC Time:	34 hrs	Operational Time:	704 hrs
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	6.6	2.7	1.1	0.4	0.1	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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	0	1	1	1	1	1	2	2	2	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0.5	1.7
2-May-05	1	1	1	1	2	2	2	2	4	3	A	2	1	1	5	4	3	2	2	1	1	0	0	0	1.9	5.3
3-May-05	0	0	0	0	0	0	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.4
4-May-05	0	0	0	0	0	0	0	0	A	0	1	2	2	3	3	3	2	2	2	2	2	2	2	1	1.4	2.8
5-May-05	1	1	0	0	1	1	0	A	1	1	1	1	1	2	3	2	2	2	2	2	3	2	1	1	1.4	2.7
6-May-05	2	1	1	1	1	0	A	0	0	0	1	0	0	0	0	0	1	2	2	1	2	2	2	2	0.9	2.0
7-May-05	2	1	1	1	1	A	0	0	0	0	1	1	2	1	0	0	0	0	0	0	2	2	2	2	0.8	1.8
8-May-05	1	1	1	0	A	0	0	0	0	0	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0.5	2.6
9-May-05	0	1	1	A	1	0	0	1	1	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.5	1.6
10-May-05	0	0	A	0	1	0	0	0	0	1	1	1	0	0	1	1	2	2	1	1	1	1	1	1	0.7	1.8
11-May-05	1	A	1	1	1	1	1	1	1	0	1	1	1	0	0	0	0	0	0	0	1	0	1	0	0.5	1.1
12-May-05	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.6
13-May-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	2	2	0	0	A	1	0.5	2.6
14-May-05	1	1	1	1	0	0	0	0	0	0	0	0	1	0	1	4	7	9	5	3	1	A	0	0	1.5	9.4
15-May-05	0	0	0	0	0	0	0	0	5	10	8	6	3	3	2	2	1	1	1	0	A	1	1	1	2.0	10.2
16-May-05	0	0	0	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	A	0	0	0	0	0.3	0.7
17-May-05	0	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	A	0	0	0	0	0	0.6	1.2
18-May-05	0	0	1	0	0	0	0	0	1	1	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0.4	1.7
19-May-05	0	0	0	1	1	A	1	1	1	1	C	C	C	C	C	C	A	A	0	0	0	0	0	0	N	0.9
20-May-05	0	0	0	0	0	A	1	0	0	0	3	4	5	2	7	4	3	2	1	1	1	1	1	1	1.6	7.2
21-May-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	0.1	0.4
22-May-05	0	0	0	A	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.2	1.3
23-May-05	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
24-May-05	0	A	0	1	1	0	1	1	1	1	3	7	4	1	4	1	7	3	6	3	2	1	0	1	2.1	7.2
25-May-05	A	0	1	0	0	1	2	4	1	6	2	1	2	1	0	0	0	0	0	0	0	1	0	A	1.1	5.7
26-May-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	0.1	0.4
27-May-05	0	0	0	0	0	0	0	1	12	2	1	1	1	1	0	0	0	0	1	0	0	A	0	0	0.9	11.9
28-May-05	0	0	0	0	0	0	0	1	2	3	2	2	2	2	1	1	1	1	1	1	A	1	2	1	1.1	2.5
29-May-05	1	2	2	2	2	1	1	2	2	3	1	1	1	0	1	2	2	2	2	A	1	1	0	0	1.4	3.0
30-May-05	0	0	0	0	0	0	1	5	2	2	2	1	1	1	0	0	0	0	A	0	0	0	0	0	0.8	5.5
31-May-05	0	0	0	0	0	0	1	2	2	2	1	1	1	1	1	0	0	A	0	0	0	0	0	0	0.7	2.4
Hourly Avg	0.4	0.5	0.5	0.4	0.5	0.4	0.6	0.9	1.4	1.4	1.3	1.4	1.2	0.8	1.1	1.0	1.3	1.1	1.1	0.8	0.7	0.6	0.5	0.5		
Hourly Max	1.8	1.8	1.8	1.5	1.7	2.0	2.2	5.5	11.9	10.2	8.1	7.2	4.8	2.7	7.2	4.2	7.2	9.4	5.7	3.1	2.7	2.3	1.9	1.7		

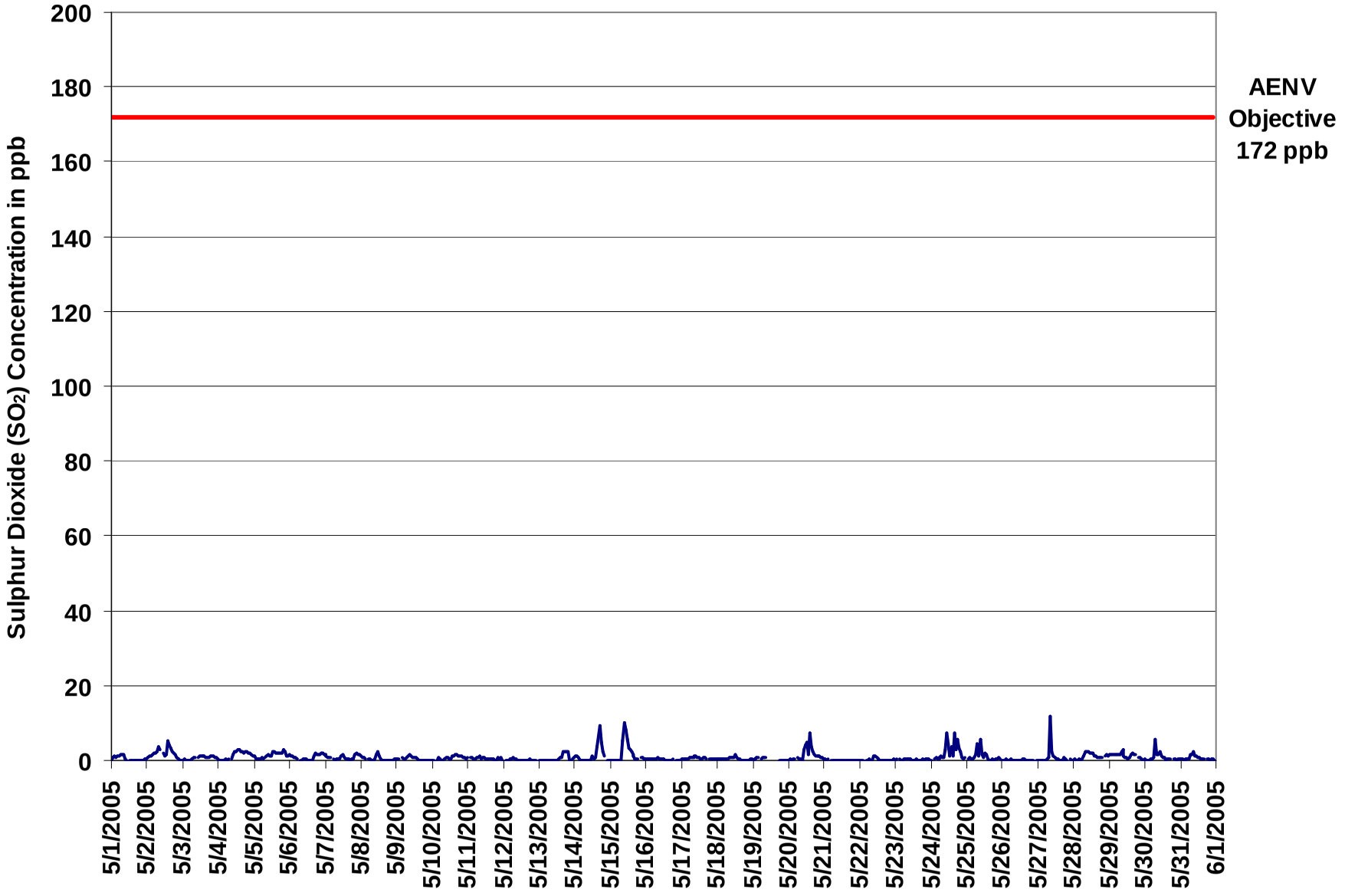


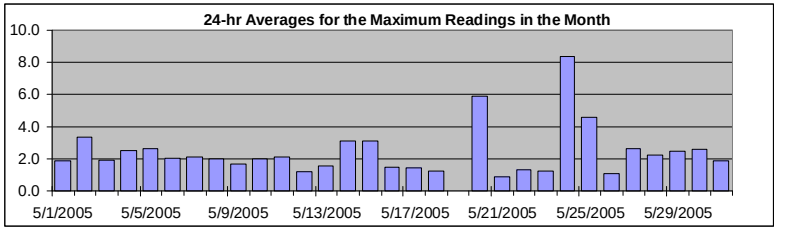
Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park
Station Owner: PASZA

HOURLY MAXIMUM TABLE

Sulphur Dioxide (SO_2)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Value:	30.1	ppb	20-May	14:00 15:00
Maximum 24-hr Value:	8.4	ppb	24-May	

AIC Time:	34 hrs	Operational Time:	704 hrs
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	18.1	6.1	2.4	1.6	1.1	0.7	0.0	2.4 ppb

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	1	2	3	2	2	2	3	3	3	2	1	A	1	1	2	2	1	1	1	1	2	2	1	2	1.8	3.2
2-May-05	2	2	2	3	3	3	3	3	10	4	A	3	3	4	7	6	4	4	3	3	2	1	1	1	3.4	10.0
3-May-05	1	2	1	1	1	0	2	2	2	A	2	2	2	2	4	2	2	2	2	5	2	2	2	2	1.9	4.6
4-May-05	2	1	1	1	0	2	1	2	A	1	3	3	4	4	4	4	4	3	3	3	3	3	3	2	2.6	4.3
5-May-05	2	2	2	1	1	2	2	A	2	3	3	3	2	4	4	3	3	3	3	3	4	4	3	2	2.7	4.2
6-May-05	3	2	2	2	2	2	A	1	1	2	2	1	1	1	1	1	3	3	3	3	3	3	3	3	2.1	3.3
7-May-05	3	2	2	2	2	A	2	2	1	1	2	4	3	2	1	2	1	1	2	1	3	3	3	3	2.1	3.7
8-May-05	2	2	2	2	A	1	2	2	1	1	6	7	4	2	1	1	1	1	1	1	1	1	2	2	2.0	6.5
9-May-05	2	2	2	A	2	2	2	2	2	3	3	2	2	2	1	1	1	1	1	1	1	1	1	2	1.7	2.7
10-May-05	1	1	A	2	2	2	1	1	2	2	2	2	2	2	2	3	3	3	2	2	2	2	2	2	2.0	3.1
11-May-05	2	A	3	2	2	2	2	2	2	2	2	3	2	2	1	3	1	1	1	2	2	2	5	2	2.1	4.5
12-May-05	A	1	1	1	1	1	2	2	1	2	1	1	1	1	1	1	1	2	1	1	1	1	0	A	1.2	2.4
13-May-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	4	4	4	1	1	A	1	1.6	3.8
14-May-05	2	2	2	2	2	0	0	1	1	0	5	1	3	4	4	5	12	12	7	4	2	A	1	0	3.1	11.9
15-May-05	0	0	0	0	0	0	0	0	12	12	11	10	5	3	3	3	2	1	1	1	A	2	2	1	3.1	12.5
16-May-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	6	A	0	4	1	1	1.5	6.1
17-May-05	1	1	1	1	1	1	2	2	2	3	2	2	2	1	1	2	2	1	A	1	1	1	1	1	1.5	3.1
18-May-05	1	1	1	1	1	1	1	1	1	2	1	2	3	2	1	1	2	1	1	1	1	1	1	1	1.3	2.6
19-May-05	1	1	1	1	2	A	2	3	2	3	C	C	C	C	C	C	A	A	2	4	8	2	1	1	N	8.1
20-May-05	1	1	1	2	1	A	2	1	1	1	15	22	21	3	30	13	4	2	2	2	2	3	2	2	5.9	30.1
21-May-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	0.9	1.4
22-May-05	1	1	1	A	1	1	1	1	1	4	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1.3	3.9
23-May-05	1	2	A	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1.3	2.1
24-May-05	1	A	2	2	2	2	2	3	2	2	17	24	16	3	16	2	26	16	17	16	18	2	2	1	8.4	26.4
25-May-05	A	1	2	2	2	2	6	12	2	21	10	2	14	11	2	1	1	1	1	2	2	2	1	A	4.6	20.6
26-May-05	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.1	2.6
27-May-05	1	1	1	2	1	1	2	2	22	9	3	2	2	2	2	1	1	1	2	2	1	A	1	1	2.7	22.0
28-May-05	1	2	1	1	1	1	2	3	4	3	3	3	3	3	3	2	2	2	2	2	A	2	3	2	2.2	3.6
29-May-05	2	3	3	2	3	2	2	3	4	4	2	2	2	1	2	3	3	3	3	A	2	2	1	1	2.5	4.2
30-May-05	1	1	1	1	2	2	3	15	5	4	9	2	2	1	1	2	1	2	A	1	2	1	2	1	2.6	14.6
31-May-05	2	1	1	2	1	1	2	3	4	6	2	2	2	2	1	2	2	A	1	2	1	1	1	1	1.9	5.7
Hourly Avg	1.4	1.5	1.5	1.5	1.5	1.4	1.8	2.6	3.2	3.5	4.0	3.8	3.6	2.4	3.5	2.4	3.1	2.7	2.7	2.5	2.5	1.8	1.7	1.5		
Hourly Max	2.9	3.4	3.1	2.5	2.9	3.0	6.3	14.6	22.0	20.6	17.0	24.0	21.2	11.4	30.1	12.9	26.4	15.7	17.4	15.6	18.1	4.5	4.5	2.9		

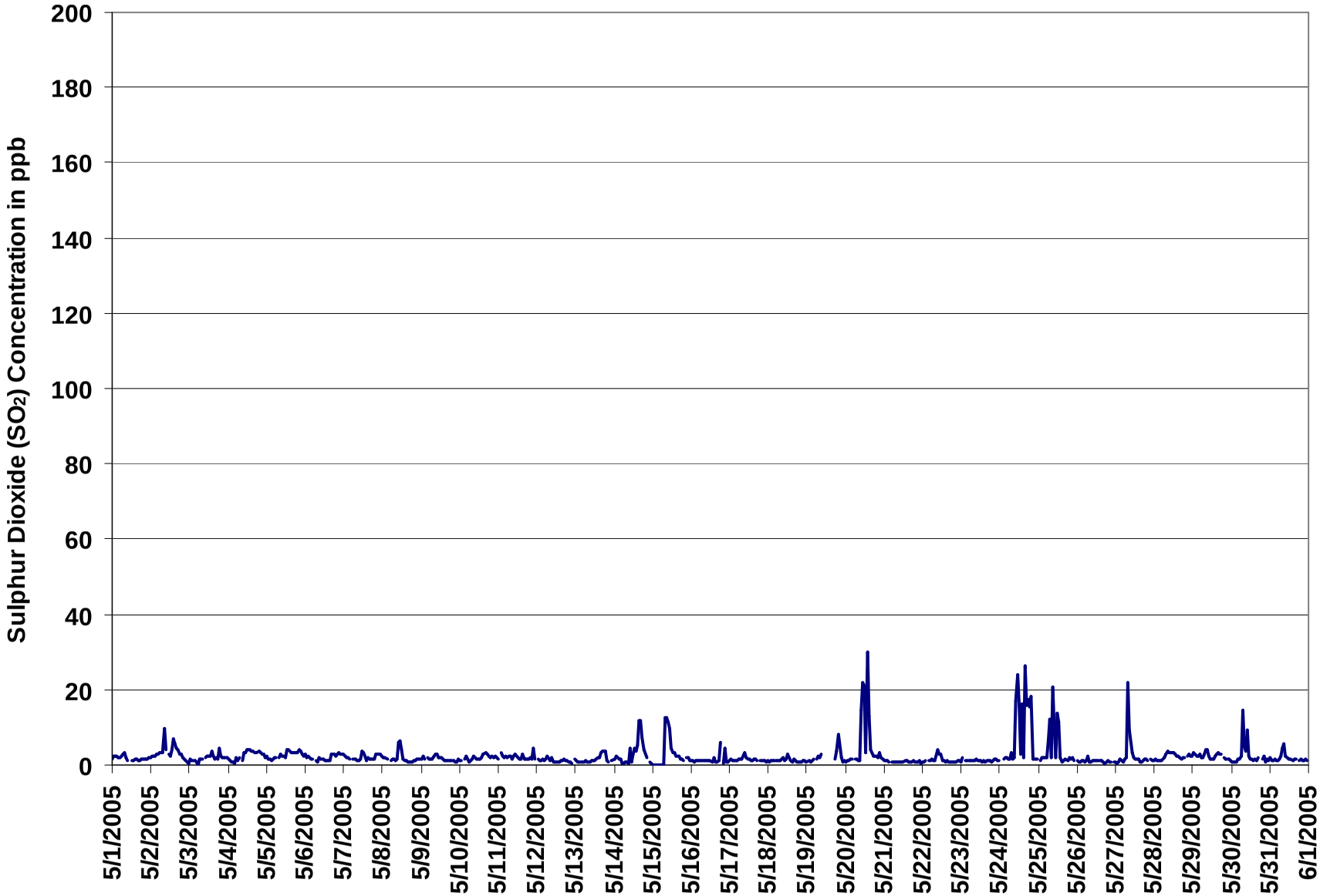
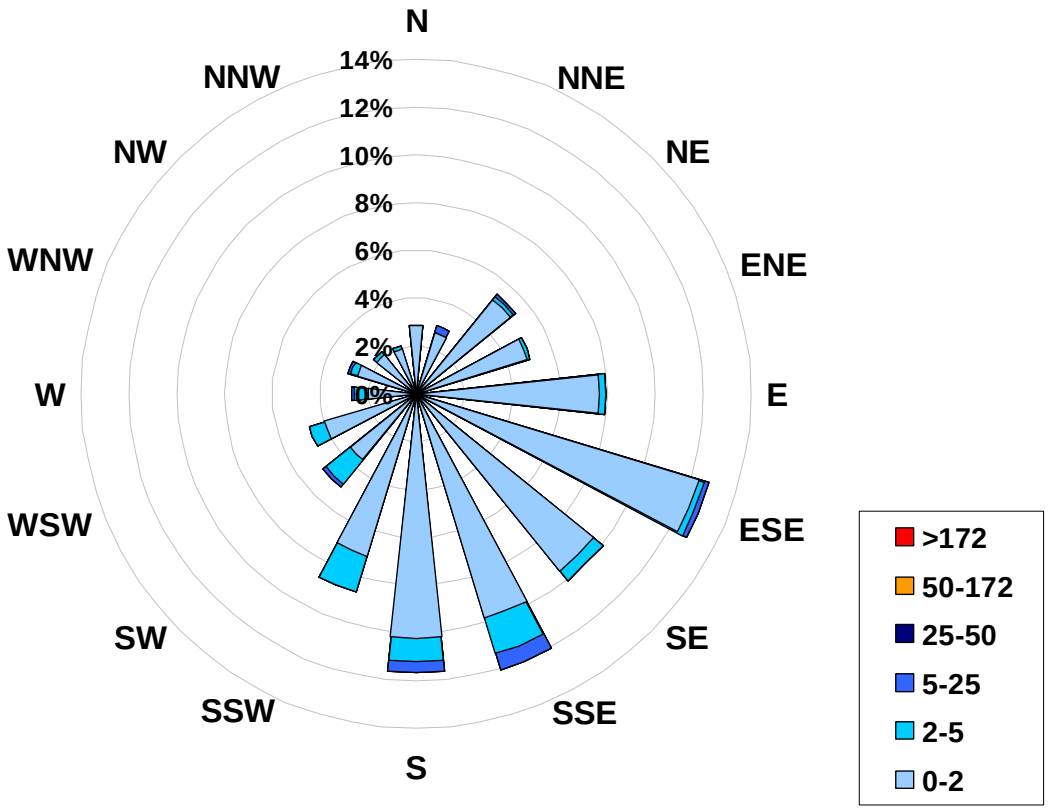


Figure 21. PASZA - Evergreen Park Sulphur Dioxide 1-hr Maximum Value Monthly Trend

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



Calms:	1%

Frequency Distribution of SO_2 in ppb			
Range			Frequency (hrs)
0.0	<	2	628
2	to	5	61
5	to	25	15
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			704

PASZA - Evergreen Park Total Reduced Sulphur Monthly Summary

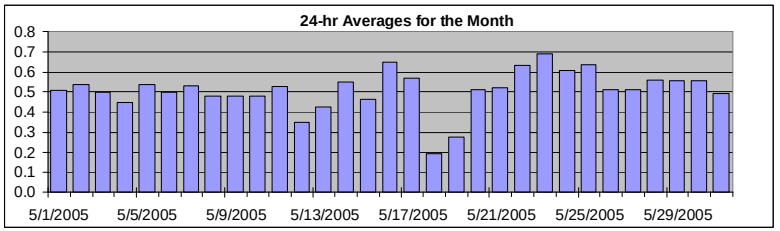
Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: May 1, 2005 to June 1, 2005

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



Summary

Maximum 1-hr Average:	1.2	ppb	27-May	8:00 9:00
Maximum 24-hr Value:	0.7	ppb	23-May	

AIC Time:	33 hrs	Operational Time:	709 hrs
Calibration Time:	2 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	0.0	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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	1	1	1	1	1	1	1	1	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0.5	0.7
2-May-05	1	1	1	1	1	1	1	1	1	1	A	1	1	0	0	1	1	0	0	0	0	0	1	0	0.5	0.7
3-May-05	1	1	1	1	1	1	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.6
4-May-05	0	0	0	0	0	0	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.5	0.5
5-May-05	0	1	1	1	1	1	1	A	1	1	1	0	0	0	0	0	0	1	0	1	0	0	1	0	0.5	0.8
6-May-05	1	0	0	0	0	0	A	1	1	0	1	1	0	0	0	0	0	1	1	0	0	1	0	1	0.5	0.7
7-May-05	1	0	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	0	0.5	0.6
8-May-05	1	0	0	0	A	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.5	0.6
9-May-05	0	1	1	A	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.5	0.6
10-May-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	0.5	0.6
11-May-05	1	A	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	1	1	1	0	0.5	0.7
12-May-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	0.3	0.4
13-May-05	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0.4	0.6
14-May-05	1	1	0	1	0	1	0	1	1	1	1	1	1	0	1	1	1	1	0	0	0	A	1	0	0.6	0.9
15-May-05	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	A	1	1	1	0.5	0.9
16-May-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	0.6	0.9
17-May-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	A	1	0	0	0	0	0.6	0.8
18-May-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	0.2	0.4
19-May-05	0	0	0	0	0	A	0	0	0	0	C	C	A	0	0	0	1	1	1	1	1	1	1	1	0.3	0.6
20-May-05	0	1	0	0	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0.5	0.7
21-May-05	0	0	0	1	A	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	0.5	0.6
22-May-05	1	1	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
23-May-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	0.7	0.8
24-May-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	0.6	0.7
25-May-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	0.6	0.8
26-May-05	1	1	1	1	1	0	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	A	0	0.5	0.6
27-May-05	0	0	0	0	0	0	1	1	1	1	0	0	0	0	1	0	1	0	0	0	0	A	1	1	0.5	1.2
28-May-05	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.6	0.7
29-May-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0	0	0	0	0.6	0.6
30-May-05	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	A	1	1	1	1	0	0.6	0.8
31-May-05	0	1	1	1	0	0	1	1	0	1	1	0	0	0	0	0	0	A	0	0	0	1	1	1	0.5	0.7
Hourly Avg	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
Hourly Max	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.8	1.2	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.9	0.8	0.7	0.6	0.9	0.8	0.7	0.6		

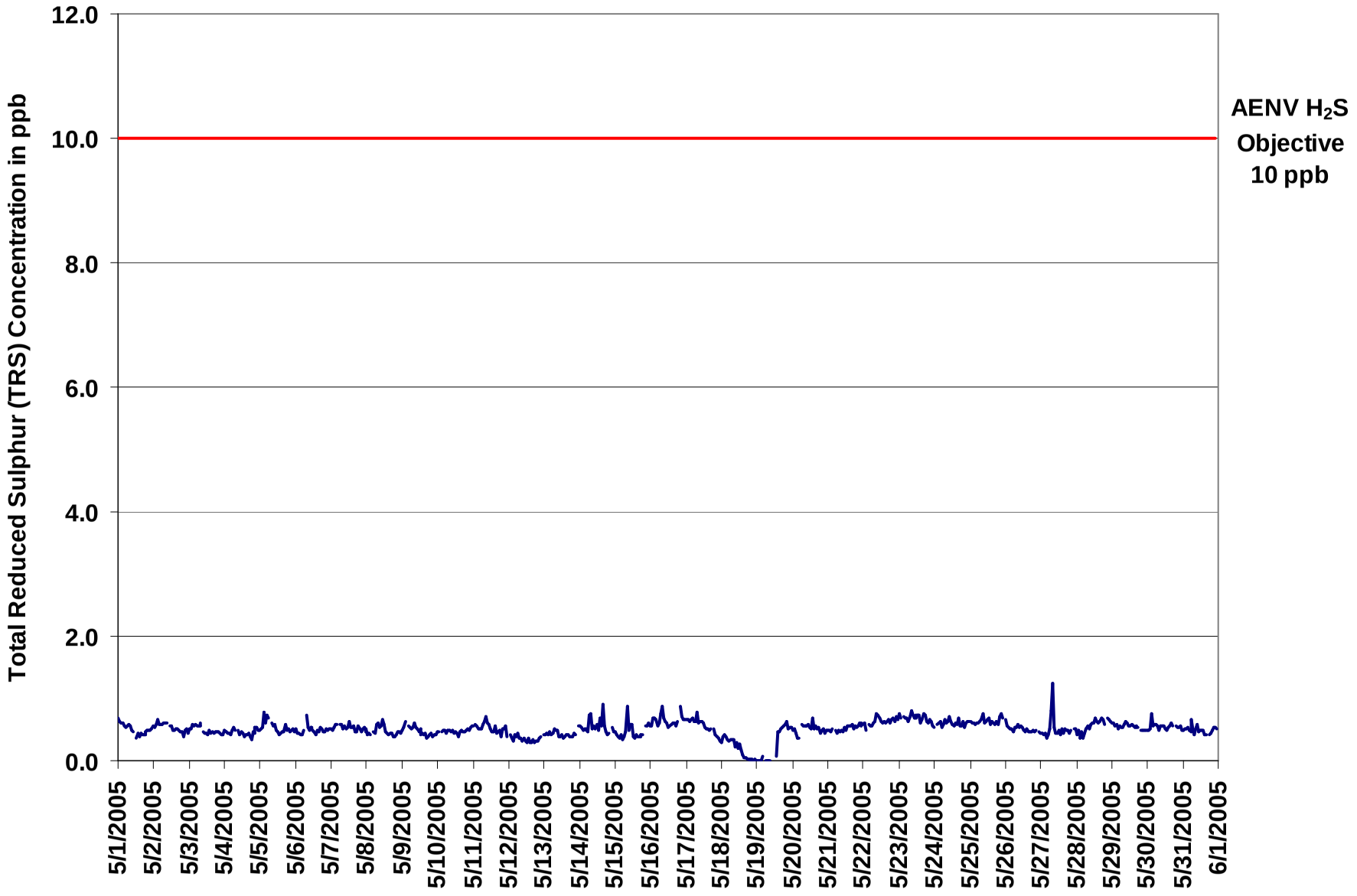


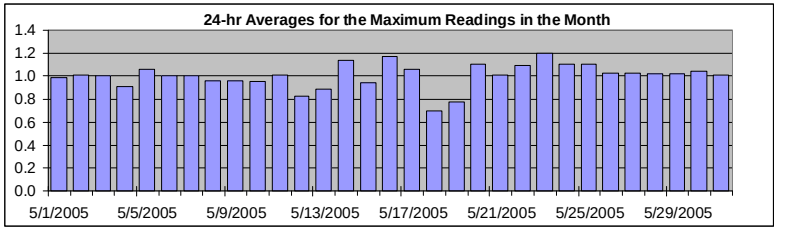
Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park
Station Owner: PASZA

HOURLY MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Value:	3.9	ppb	20-May	14:00 15:00
Maximum 24-hr Value:	1.2	ppb	23-May	

AIC Time:	33 hrs	Operational Time:	709 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	1.8	1.3	1.1	1.0	0.9	0.7	0.5	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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	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	1.2
2-May-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	1.3
3-May-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	1.0	1.2
4-May-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	1.2
5-May-05	1	1	1	2	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.6
6-May-05	1	1	1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.6
7-May-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	1.2
8-May-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	1.2
9-May-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	1.1
10-May-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	1.0	1.1
11-May-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	1.3
12-May-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	0.8	1.1
13-May-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
14-May-05	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	2	1	1	1	1	A	1	1	1.1	2.1
15-May-05	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.8
16-May-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	1.2	1.5
17-May-05	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1.1	1.9
18-May-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	0	1	1	1	0.7	1.1
19-May-05	1	0	0	0	1	A	0	1	0	0	C	C	A	1	1	1	1	1	1	1	2	1	1	1	0.8	2.0
20-May-05	1	1	1	1	1	A	1	1	1	1	1	1	1	1	4	1	1	1	1	1	1	1	1	1	1.1	3.9
21-May-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	1.3
22-May-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	1.1	1.4
23-May-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	1.2	1.5
24-May-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	1.4
25-May-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	1.1	1.2
26-May-05	2	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	1.5
27-May-05	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.0	2.3
28-May-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	1.2
29-May-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	1.0	1.3
30-May-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	1.3
31-May-05	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1.0	1.9
Hourly Avg	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.1	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Hourly Max	1.5	1.2	1.3	1.6	1.3	1.3	1.9	1.6	2.3	1.4	1.3	1.2	1.3	1.3	3.9	1.2	2.1	1.5	1.3	1.3	2.0	1.5	1.3	1.2		

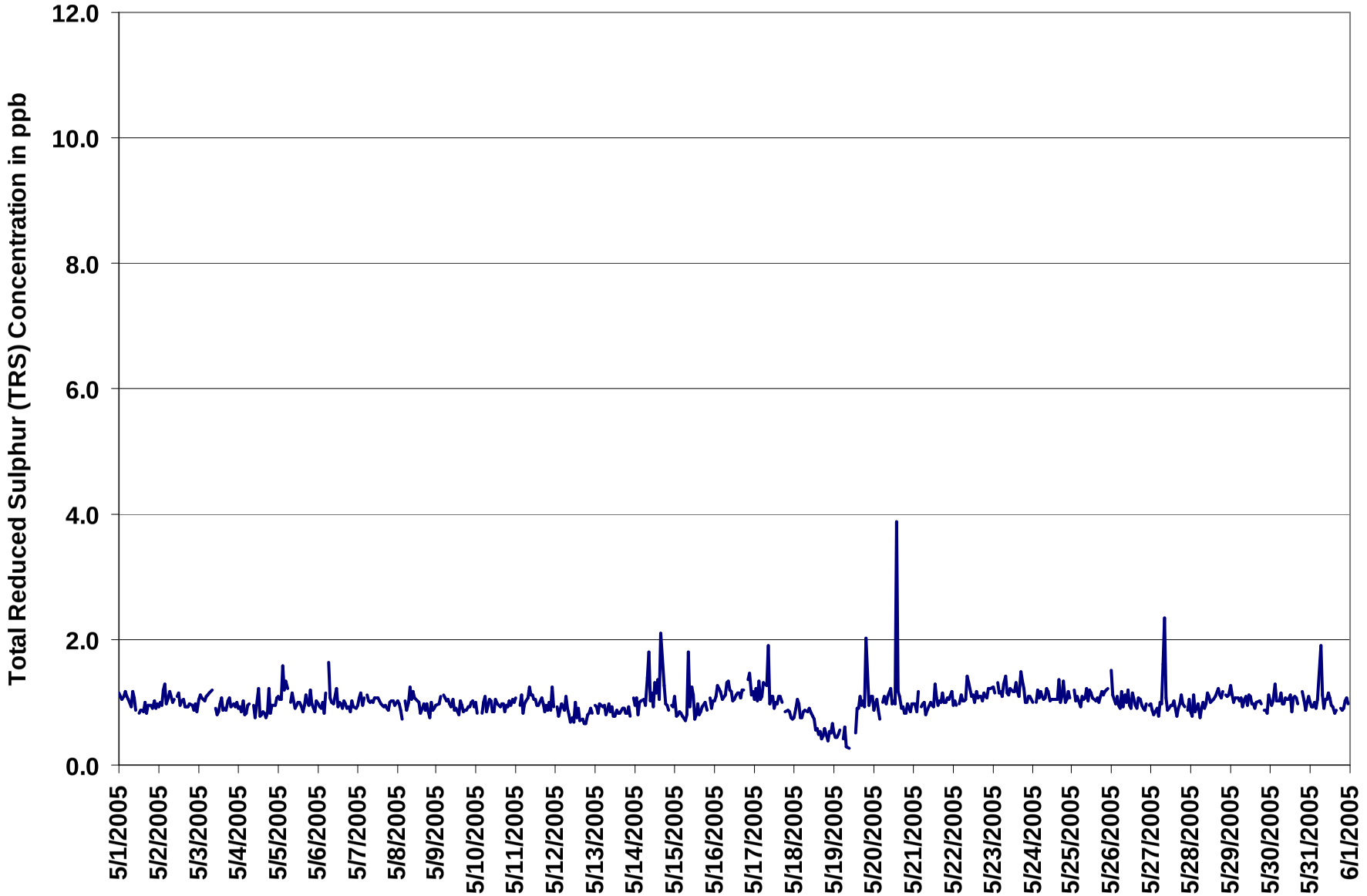
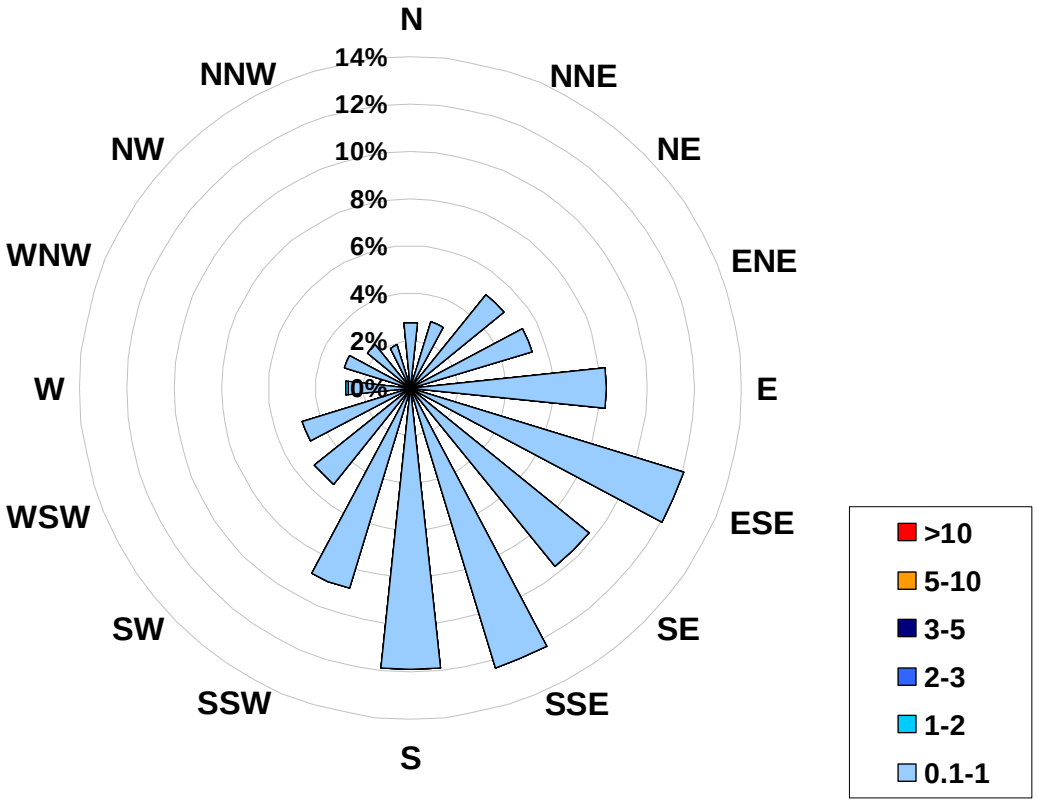


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Maximum Value Monthly Trend

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



Calms:	1%

Frequency Distribution of TRS in ppb			
Range			Frequency (hrs)
0.1	<	1	708
1	to	2	1
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			709

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

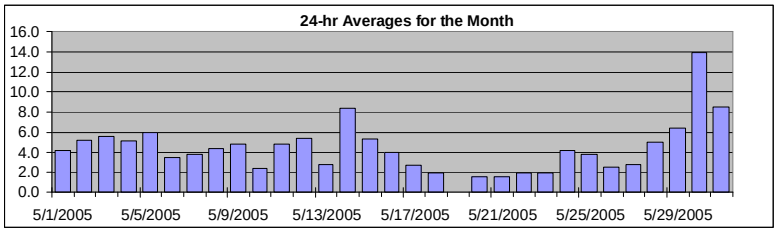
Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: May 1, 2005 to June 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:	37.1	µg/m³	30-May	7:00 8:00
Maximum 24-hr Value:	13.9	µg/m³	30-May	

AIC Time:	0 hrs	Operational Time:	733 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	98.9%

Percentile	99	95	75	50	25	5	1	Average	Geomean
	17.6	11.5	5.8	3.6	1.8	0.0	0.0	4.4 µg/m³	3.9 µg/m³

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	4	4	4	5	4	4	6	4	2	1	2	2	2	2	2	2	2	2	2	4	14	11	8	9	4.1	13.8
2-May-05	7	8	6	5	4	4	7	4	5	5	5	4	4	5	4	5	7	3	4	5	5	6	6	6	5.2	7.6
3-May-05	7	7	9	10	9	7	5	4	5	6	5	6	6	6	10	5	4	3	6	5	4	4	2	1	5.6	10.0
4-May-05	4	3	3	4	3	7	11	5	6	7	5	3	2	3	3	4	4	5	5	5	4	6	12	12	5.1	12.0
5-May-05	12	8	8	13	11	15	11	7	5	5	2	0	0	3	3	0	4	3	3	4	13	5	6	5	6.0	14.5
6-May-05	4	5	5	6	5	6	5	5	3	5	5	5	4	3	3	4	4	2	2	0	0	0	1	2	3.5	6.2
7-May-05	2	2	2	3	3	3	3	3	4	3	3	5	6	8	6	5	5	4	4	5	5	4	3	2	3.8	7.6
8-May-05	2	4	8	5	3	4	7	9	6	8	2	3	4	3	3	3	3	3	3	4	3	4	5	5	4.3	9.5
9-May-05	5	9	11	9	11	4	10	9	8	8	4	5	5	5	3	2	2	3	1	0	1	1	0	0	4.8	10.7
10-May-05	0	0	0	0	0	2	2	2	3	3	3	3	4	3	3	3	4	3	3	4	2	4	4	3	2.4	3.8
11-May-05	3	2	1	2	3	4	3	6	7	7	11	9	8	8	10	6	0	3	0	2	5	2	14	1	4.8	13.6
12-May-05	0	1	1	1	2	6	12	8	7	6	5	4	3	6	7	6	6	8	9	13	6	4	4	3	5.4	13.3
13-May-05	2	3	1	0	0	0	1	1	2	2	3	3	4	3	3	4	4	5	4	3	4	4	4	4	2.8	5.0
14-May-05	2	4	4	5	5	4	8	10	12	12	16	17	21	16	9	6	11	11	5	3	7	4	5	3	8.4	21.1
15-May-05	4	2	3	3	4	10	17	7	17	8	9	0	0	1	3	3	3	6	2	3	7	6	5	4	5.3	17.4
16-May-05	5	5	6	8	8	12	11	9	4	2	3	1	0	0	0	D	0	0	1	0	0	5	3	4	3.9	12.0
17-May-05	6	7	4	1	3	4	5	5	6	4	0	3	6	0	0	1	1	0	0	1	0	1	3	3	2.7	6.8
18-May-05	3	1	0	1	0	0	0	2	1	1	2	3	7	6	3	1	3	2	1	3	1	1	1	2	1.9	7.2
19-May-05	3	3	0	0	1	4	3	7	6	2	C	C	C	D	D	0	D	2	D	D	0	0	1	0	N	6.6
20-May-05	1	1	0	0	0	1	1	1	0	0	2	7	5	0	10	0	1	0	0	0	3	3	1	1	1.5	10.3
21-May-05	2	0	1	1	0	1	1	2	2	3	2	0	1	0	1	1	0	1	3	2	2	3	3	4	1.5	4.0
22-May-05	3	2	2	2	2	2	2	1	1	2	4	3	3	1	0	0	0	1	0	0	4	3	4	3	2.0	4.3
23-May-05	2	2	1	1	1	3	3	3	4	4	2	2	4	1	2	1	1	2	1	0	2	2	2	2	1.9	3.9
24-May-05	2	3	3	4	4	4	4	5	3	2	6	10	11	0	6	0	12	0	7	5	3	1	3	3	4.1	12.1
25-May-05	2	1	1	1	2	4	5	9	1	10	1	0	6	0	1	0	2	3	4	6	5	18	5	6	3.8	17.7
26-May-05	5	3	7	0	3	5	7	1	3	D	0	3	D	0	0	0	0	1	1	2	3	4	4	3	2.5	6.9
27-May-05	2	3	2	3	3	5	9	5	4	5	0	2	0	1	2	3	2	2	3	2	2	2	2	3	2.8	9.3
28-May-05	4	4	3	3	4	3	5	6	7	8	10	4	6	5	6	6	5	4	5	5	5	6	5	4	5.0	9.8
29-May-05	4	4	4	4	4	5	8	8	7	7	7	6	6	6	6	5	6	7	7	8	8	7	8	11	6.4	10.6
30-May-05	7	9	10	4	7	11	17	37	18	20	12	11	11	14	9	11	17	28	20	22	10	10	9	10	13.9	37.1
31-May-05	5	8	7	7	10	12	7	12	13	15	14	15	5	5	7	5	7	9	9	9	5	5	7	6	8.5	15.5
Hourly Avg	3.6	3.7	3.8	3.6	3.8	5.0	6.3	6.4	5.4	5.7	4.8	4.7	4.9	3.8	4.2	3.1	4.0	4.0	3.8	4.2	4.2	4.4	4.5	4.0		
Hourly Max	12.1	9.0	10.7	13.0	11.4	14.5	17.4	37.1	18.0	19.6	15.8	17.3	21.1	15.7	10.3	11.3	16.6	28.4	19.7	22.0	13.8	17.7	13.6	11.7		

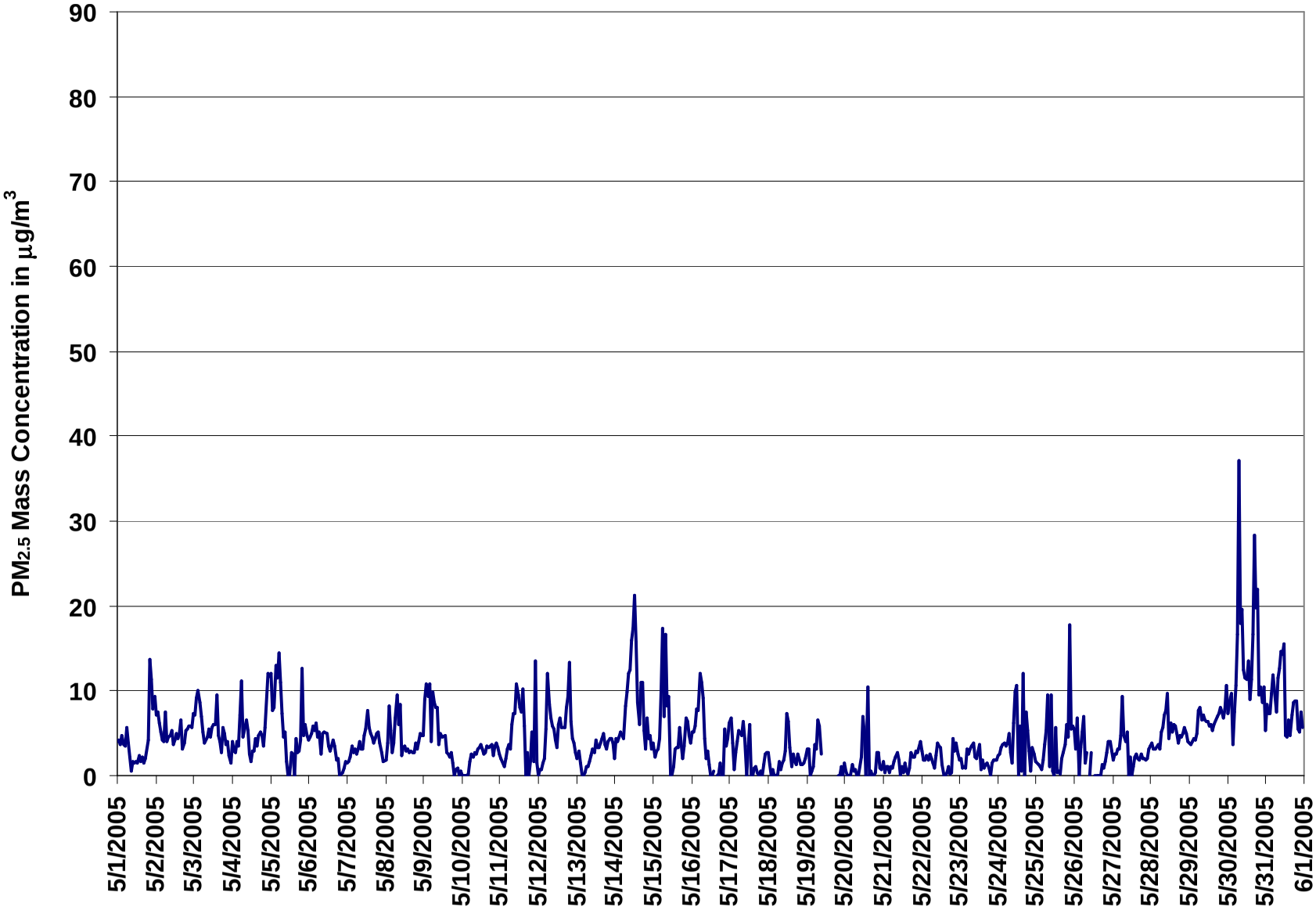


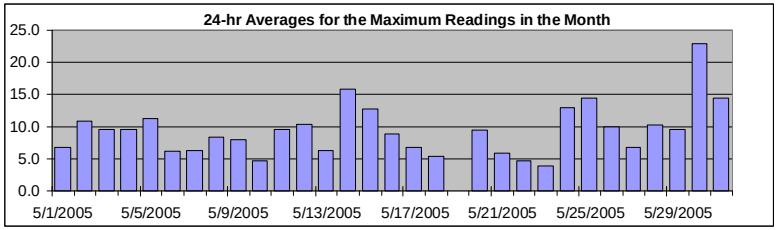
Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park
Station Owner: PASZA

HOURLY MAXIMUM TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Average:	55.2	µg/m³	30-May	7:00 8:00
Maximum 24-hr Value:	22.9	µg/m³	30-May	

AIC Time:	0 hrs	Operational Time:	733 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	98.9%

Percentile	99	95	75	50	25	5	1	Average	Geomean
	37.6	24.5	10.9	7.2	4.9	2.5	1.1	9.4 µg/m˘	8.7 µg/m˘

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	6	6	6	6	5	5	8	6	6	3	4	5	3	4	5	6	7	5	4	11	18	14	9	12	6.7	17.9
2-May-05	11	10	9	7	6	9	11	7	6	10	8	6	8	7	8	31	26	18	7	16	17	9	7	8	10.9	31.1
3-May-05	13	10	13	17	12	10	8	7	7	8	8	9	9	16	18	8	7	5	10	9	7	7	6	4	9.6	17.9
4-May-05	7	5	5	6	8	13	15	9	8	11	10	8	7	7	7	9	7	8	8	19	9	12	20	14	9.6	19.6
5-May-05	33	10	11	21	15	19	19	10	6	8	7	5	5	10	6	4	8	8	7	10	28	6	8	7	11.3	32.9
6-May-05	6	8	7	9	7	8	7	7	8	8	7	6	5	5	5	7	7	7	8	3	3	2	3	6	6.2	8.7
7-May-05	3	4	4	6	6	6	4	5	7	6	7	8	8	11	10	8	8	6	6	7	7	6	5	4	6.3	11.2
8-May-05	4	8	11	7	6	6	8	13	10	15	6	10	10	8	9	8	6	8	8	6	10	7	8	10	8.4	15.1
9-May-05	7	14	13	11	15	12	13	11	12	14	8	7	8	8	6	4	5	6	6	3	2	2	1	2	8.0	15.4
10-May-05	1	1	1	1	2	3	4	5	5	7	6	5	6	7	5	6	7	6	7	6	4	6	6	5	4.7	7.4
11-May-05	3	3	2	4	5	7	7	10	10	10	13	13	11	11	14	16	6	8	3	5	7	5	46	9	9.6	45.7
12-May-05	4	2	2	3	6	16	23	12	18	8	8	9	12	10	11	9	8	14	22	24	8	7	6	5	10.4	24.1
13-May-05	3	5	5	1	0	8	3	3	4	5	6	9	8	6	6	12	8	9	8	6	7	6	7	18	6.3	17.6
14-May-05	10	12	5	7	8	8	15	19	17	18	20	30	31	32	12	13	29	20	20	9	12	13	9	8	15.8	31.9
15-May-05	9	8	9	10	15	20	27	24	40	17	17	11	7	6	8	9	9	10	5	7	14	13	7	8	12.8	39.6
16-May-05	7	11	11	13	13	15	18	13	8	4	7	11	9	4	6	D	1	3	7	5	3	17	11	10	8.9	17.6
17-May-05	14	14	11	4	6	6	8	7	10	7	3	7	13	6	3	6	5	5	5	4	3	4	6	6	6.8	14.1
18-May-05	6	3	5	3	2	8	4	5	5	6	5	6	13	11	6	5	6	6	6	7	5	2	3	3	5.5	12.7
19-May-05	5	6	3	2	2	7	12	11	11	6	C	C	C	D	D	11	D	31	D	D	6	2	3	2	N	31.3
20-May-05	18	16	1	1	2	5	5	3	10	3	18	31	30	3	32	9	7	1	5	2	12	7	3	3	9.5	32.4
21-May-05	4	2	3	4	3	3	3	10	21	11	20	2	3	4	5	3	3	4	7	6	5	5	5	6	5.9	21.3
22-May-05	6	4	4	4	3	5	4	3	3	5	5	10	8	4	2	1	3	4	5	4	8	9	5	4	4.7	9.5
23-May-05	3	4	3	3	4	5	5	5	5	5	4	4	7	5	4	2	3	4	3	2	4	3	4	3	3.9	6.6
24-May-05	4	4	5	5	5	5	6	9	6	4	23	31	40	3	24	6	38	19	20	16	21	2	9	9	13.0	39.8
25-May-05	4	3	3	3	3	5	10	18	4	31	8	3	22	25	8	6	15	15	30	30	22	34	36	8	14.4	36.1
26-May-05	17	11	34	23	5	24	24	4	13	D	3	19	D	1	1	1	3	4	2	4	5	7	9	5	10.0	34.0
27-May-05	5	5	4	4	5	8	14	8	8	38	5	5	10	4	5	5	4	3	4	5	4	3	3	5	6.8	37.8
28-May-05	5	6	5	6	8	7	7	9	11	10	18	9	8	19	22	25	8	25	6	6	7	7	6	6	10.2	24.7
29-May-05	5	5	6	6	6	7	13	10	9	8	9	10	9	10	9	8	8	10	10	11	9	9	11	35	9.7	35.0
30-May-05	10	11	19	36	9	19	22	55	22	24	25	17	16	18	14	14	20	37	44	45	15	17	12	27	22.9	55.2
31-May-05	18	13	14	9	15	17	11	17	17	21	26	25	11	12	11	10	11	12	20	19	14	10	10	8	14.5	25.5
Hourly Avg	8.1	7.2	7.5	7.8	6.7	9.6	10.8	10.8	10.5	11.1	10.4	11.0	11.6	9.2	9.4	8.7	9.4	10.4	10.1	10.1	9.6	8.2	9.1	8.4		
Hourly Max	32.9	16.4	34.0	36.1	15.4	24.1	26.6	55.2	39.6	37.8	25.5	31.3	39.8	31.9	32.4	31.1	38.0	37.3	43.5	44.8	28.4	33.8	45.7	35.0		

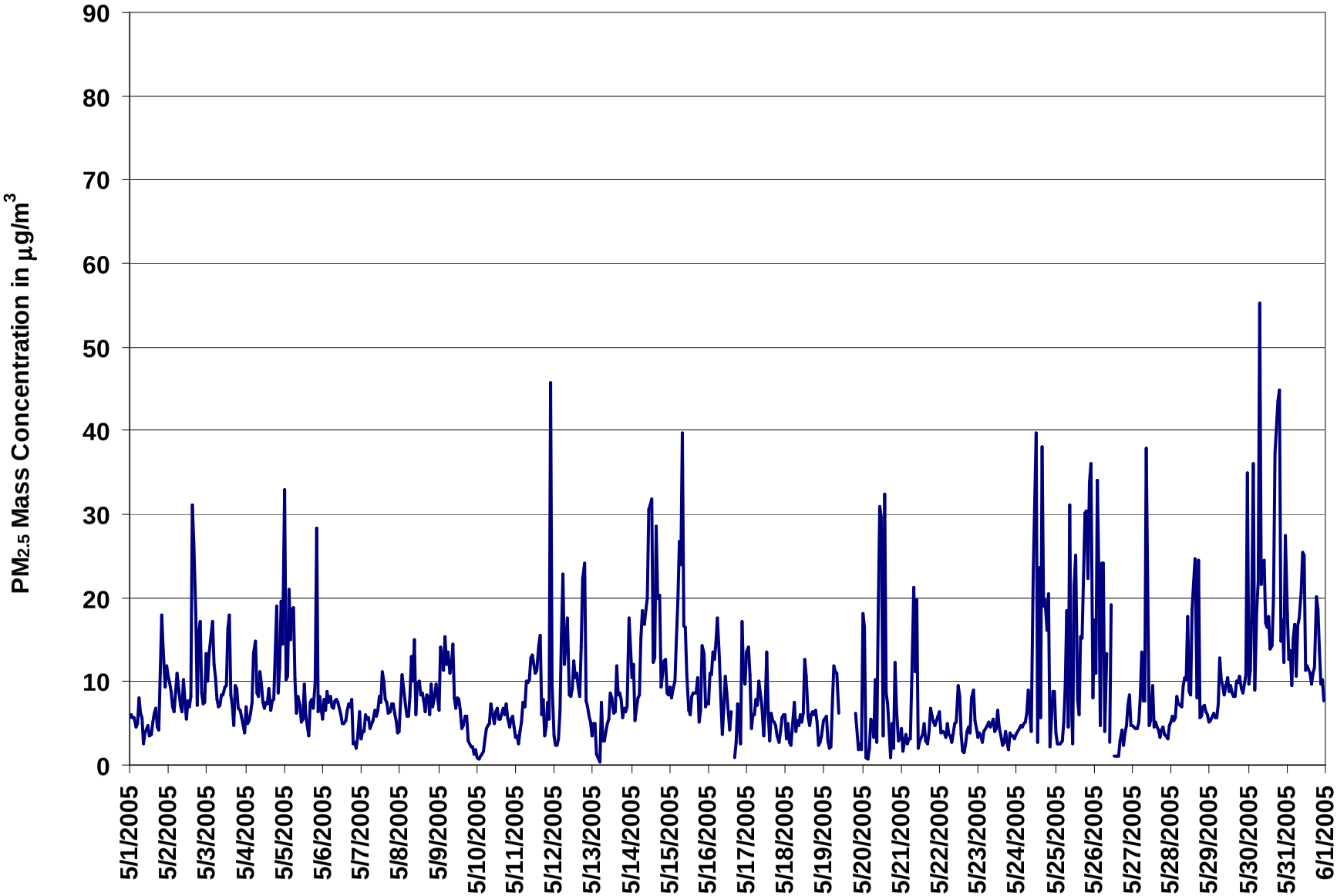
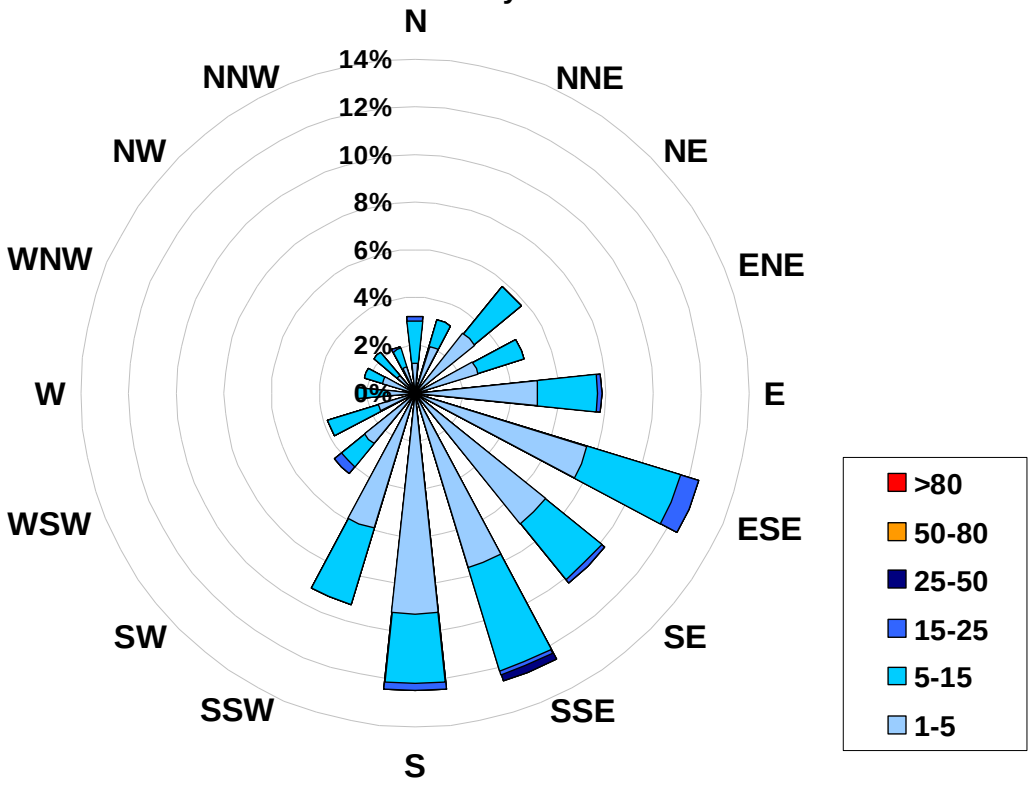


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Maximum Value Monthly Trend

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 May 2005



Calms:	1%

Frequency Distribution of $PM_{2.5}$ in $\mu g/m^3$			
Range			Frequency (hrs)
1.0	<	5	494
5	to	15	223
15	to	25	14
25	to	50	2
50	to	80	0
	>	80	0
Total Non-Zero Values			733

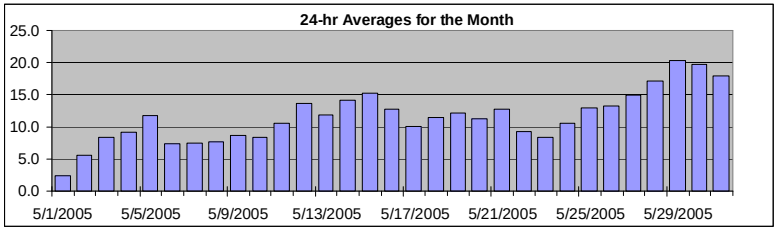
PASZA - Evergreen Park Temperature Monthly Summary

Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Average:	29.7	°C	29-May	15:00 16:00
Maximum 24-hr Value:	20.3	°C	29-May	

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
	28.0	23.2	16.1	11.0	7.3	1.0	-4.2	11.6 °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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	-3	-4	-4	-4	-5	-5	-3	0	2	4	5	6	7	8	9	9	9	9	9	8	5	2	0	-2	2.5	9.3
2-May-05	-3	-4	-5	-5	-6	-6	-3	1	3	6	8	10	12	13	14	14	15	15	14	13	10	7	7	5	5.6	14.6
3-May-05	4	5	5	5	4	5	5	6	7	8	11	13	14	14	12	14	14	13	11	11	9	6	4	2	8.5	14.4
4-May-05	1	0	-1	-2	-2	-1	2	5	8	11	13	15	15	17	17	18	19	19	19	18	12	8	6	5	9.2	18.9
5-May-05	4	2	1	4	6	8	8	9	10	12	14	16	17	18	18	18	19	19	18	17	14	12	11	10	11.8	18.8
6-May-05	9	8	8	7	7	6	6	6	6	6	6	6	6	6	7	7	7	9	9	10	9	9	9	8	7.4	9.5
7-May-05	8	7	6	6	5	4	4	5	6	7	7	9	9	10	10	11	11	12	12	11	9	7	4	2	7.6	11.7
8-May-05	1	-1	-1	-2	-2	-2	-1	2	5	9	12	14	14	15	15	16	16	16	17	16	12	7	4	2	7.7	16.6
9-May-05	1	0	-1	-1	2	1	3	6	9	12	14	15	15	16	16	16	16	15	14	12	10	8	7	6	8.7	15.9
10-May-05	4	2	1	0	0	0	2	4	5	6	8	10	12	14	15	15	16	16	16	15	13	10	9	8	8.4	16.1
11-May-05	8	7	5	3	3	3	5	7	9	11	12	13	14	16	15	14	15	16	17	16	14	11	8	9	10.5	17.0
12-May-05	6	5	3	2	2	2	8	11	14	16	18	20	21	22	22	22	22	22	22	19	16	14	12	10	13.8	22.5
13-May-05	8	8	6	4	3	2	4	5	7	9	11	14	16	17	19	20	20	20	20	18	16	14	14	13	12.0	20.3
14-May-05	11	10	9	7	6	5	8	11	13	15	17	19	19	18	20	22	22	19	16	17	15	14	13	11	14.1	22.2
15-May-05	10	8	7	6	5	5	8	12	15	15	18	21	22	22	23	23	24	22	20	19	18	16	14	12	15.2	23.8
16-May-05	11	10	10	10	9	10	10	11	11	11	11	12	14	15	16	17	18	18	18	17	15	13	12	11	12.8	18.4
17-May-05	10	9	9	9	9	9	9	9	10	11	12	11	11	11	11	12	13	13	12	11	10	9	8	8	10.1	12.5
18-May-05	8	7	7	7	7	7	7	7	9	10	12	12	13	15	16	17	17	17	17	15	14	11	11	10	11.4	16.9
19-May-05	10	9	9	8	8	7	7	9	11	14	15	16	17	18	17	15	10	15	17	17	15	13	10	6	12.2	17.9
20-May-05	4	4	3	2	1	2	8	10	13	14	15	16	16	17	17	17	17	16	17	16	14	12	10	10	11.3	17.0
21-May-05	9	8	8	7	7	8	9	10	12	14	16	17	18	18	18	18	19	19	18	15	13	9	8	7	12.7	19.4
22-May-05	6	6	5	4	5	5	7	9	11	13	13	13	12	10	11	12	12	13	11	11	10	8	8	9	9.3	13.5
23-May-05	8	8	7	7	7	7	7	7	8	9	9	8	9	9	9	10	10	9	9	9	9	9	8	8	8.4	10.1
24-May-05	8	8	8	8	8	8	8	9	10	12	12	13	13	12	13	13	14	14	13	13	11	10	9	8	10.6	14.0
25-May-05	7	6	6	5	5	6	8	9	11	13	16	17	18	18	19	20	20	20	20	20	17	12	11	8	13.0	20.3
26-May-05	6	5	3	2	2	2	7	11	14	15	17	19	20	21	21	22	22	21	21	20	18	13	9	7	13.3	21.6
27-May-05	5	4	3	2	2	3	6	11	15	17	20	21	22	23	24	24	24	24	23	22	19	17	14	12	15.0	24.2
28-May-05	10	7	5	5	4	4	8	13	15	18	20	22	23	25	26	26	26	26	26	25	23	20	19	17	17.2	26.3
29-May-05	16	15	13	11	10	11	13	15	17	20	22	25	26	28	29	30	29	29	28	27	23	21	17	14	20.3	29.7
30-May-05	12	11	9	8	7	8	13	16	20	22	25	27	27	28	29	28	28	28	25	23	21	19	19	18	19.7	28.5
31-May-05	17	17	15	16	16	14	14	15	17	18	20	22	24	25	25	25	24	23	19	14	13	13	13	12	17.9	25.2
Hourly Avg	6.9	6.0	5.1	4.6	4.3	4.4	6.3	8.5	10.3	12.2	13.9	15.2	16.1	16.7	17.3	17.6	17.7	17.7	17.0	15.9	13.7	11.5	9.9	8.6		
Hourly Max	16.7	16.5	15.3	16.0	15.9	13.5	13.6	16.3	19.5	22.1	25.3	26.6	27.2	27.9	28.8	29.7	28.7	29.4	28.4	26.6	23.2	20.5	18.9	18.0		

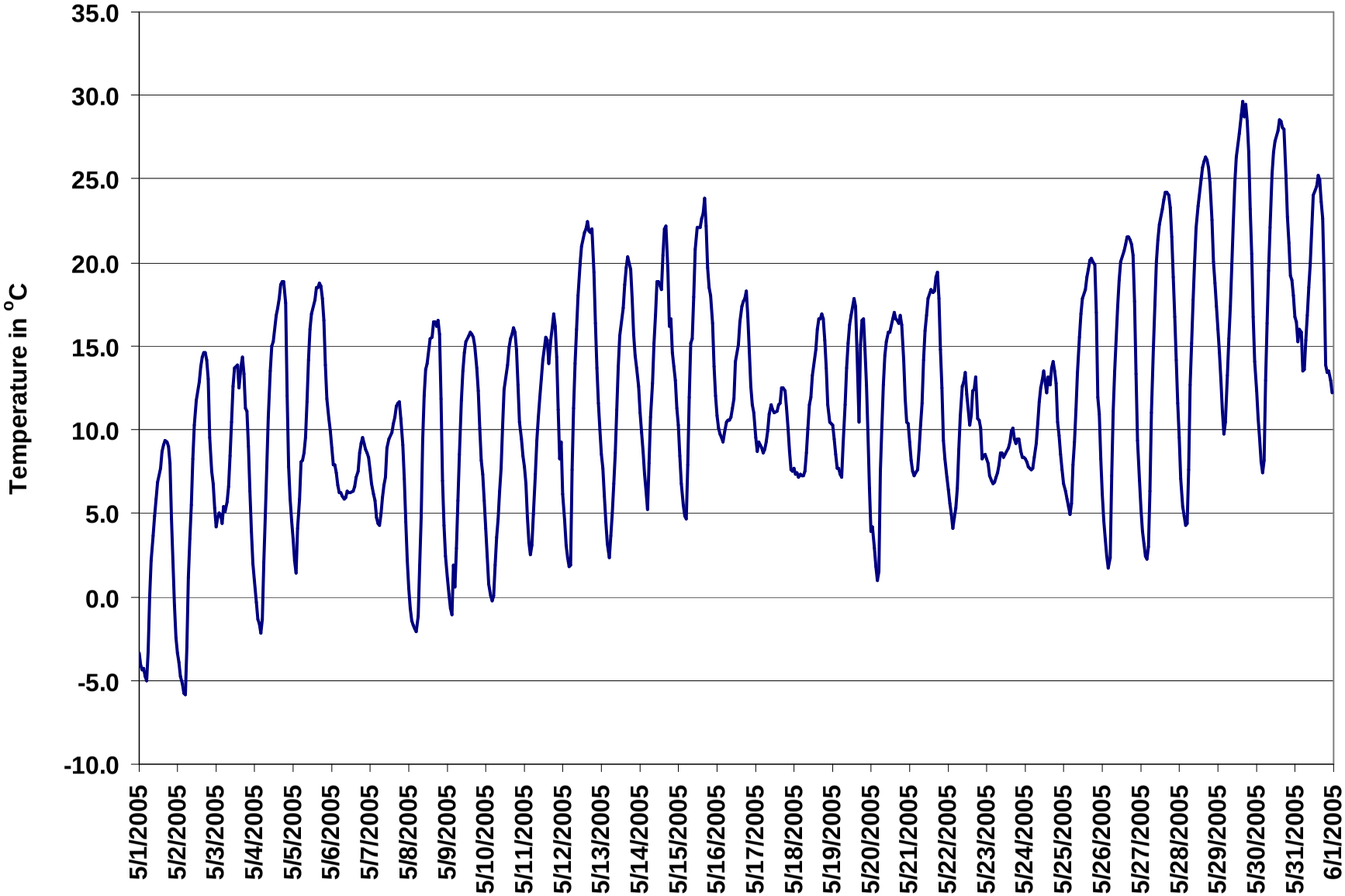


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

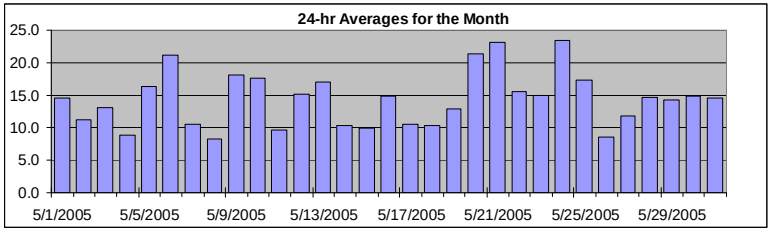
PASZA - Evergreen Park Scalar Wind Speed Monthly Summary

Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Average:	48.0	km/hr	22-May	13:00 14:00
Maximum 24-hr Value:	23.3	km/hr	24-May	

Calm Time:	6 hrs	**1%** calms	Operational Time: 738 hrs
Calibration Time:	0 hrs		AMD Operational Uptime: 100.0%

Percentile	99	95	75	50	25	5	1	AverageS
	38.0	30.2	19.3	13.3	8.6	2.8	1.4	14.4 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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hr Scalar Average	Daily Max
1-May-05	9	10	12	12	12	12	11	10	13	20	21	21	22	22	18	21	19	17	16	14	12	9	8	6	14.5	22.3
2-May-05	2	2	4	7	9	4	7	7	10	12	12	15	13	16	16	14	19	21	19	15	12	13	14	6	11.3	21.2
3-May-05	5	5	9	15	13	11	5	5	5	16	15	8	11	14	37	26	21	20	35	17	12	4	3	3	13.1	37.2
4-May-05	4	2	4	5	2	6	4	12	16	14	12	16	14	14	15	17	15	10	7	8	7	2	4	3	8.9	17.2
5-May-05	3	2	2	8	7	18	15	7	13	14	19	20	23	20	21	23	30	26	20	14	21	21	21	22	16.3	30.0
6-May-05	21	20	23	23	24	26	29	30	31	30	29	24	23	22	16	9	15	16	12	17	16	17	20	13	21.2	31.2
7-May-05	13	18	14	9	8	9	9	10	10	14	10	11	10	13	10	12	12	8	13	14	10	6	4	6	10.6	17.7
8-May-05	calm	1	3	5	4	3	3	9	8	6	11	14	13	16	10	13	13	9	11	10	8	4	calm	calm	8.3	16.1
9-May-05	calm	1	1	5	10	3	7	9	7	12	18	22	24	27	30	32	33	33	35	30	21	18	22	15	18.1	34.7
10-May-05	12	10	10	10	10	13	19	17	18	26	24	23	27	24	24	25	21	19	21	19	13	11	11	13	17.5	27.1
11-May-05	12	9	9	3	2	1	5	6	4	7	12	11	11	12	18	18	18	11	16	10	12	5	7	12	9.7	18.2
12-May-05	2	3	2	3	5	3	10	17	22	22	23	24	22	23	20	17	14	12	16	25	18	20	16	21	15.0	25.1
13-May-05	18	19	20	14	9	10	15	15	17	17	18	19	19	19	20	21	18	20	24	19	13	15	16	15	17.0	24.0
14-May-05	14	12	11	8	5	3	3	3	7	8	6	7	12	11	9	15	14	18	21	16	14	15	10	8	10.3	21.5
15-May-05	9	3	5	1	4	3	3	7	5	13	8	11	16	16	12	10	16	23	18	10	17	16	8	7	10.0	22.6
16-May-05	3	4	4	8	6	13	19	22	25	24	19	17	15	20	20	21	23	17	21	21	10	6	9	7	14.8	24.9
17-May-05	5	6	12	9	10	10	10	13	17	14	17	10	5	11	16	15	15	13	14	10	8	5	4	3	10.5	17.1
18-May-05	4	3	10	6	10	10	7	6	10	6	5	7	10	10	12	15	15	19	17	16	16	12	11	12	10.3	18.7
19-May-05	11	5	8	9	9	10	5	10	11	9	13	12	14	19	12	23	17	21	26	19	20	13	10	3	12.9	26.0
20-May-05	3	9	2	3	2	5	16	16	30	42	38	39	36	41	38	35	29	20	25	25	13	11	14	19	21.3	41.5
21-May-05	18	16	16	20	24	27	35	38	39	35	34	34	33	26	38	21	23	21	16	18	6	4	7	5	23.0	38.9
22-May-05	8	5	5	7	8	6	4	8	12	13	9	10	31	48	24	20	19	19	43	21	17	5	17	18	15.6	48.0
23-May-05	10	9	12	9	9	10	9	9	9	15	20	15	15	17	23	27	31	25	19	18	12	11	11	12	14.9	31.3
24-May-05	13	11	10	11	13	12	12	17	21	22	28	31	37	33	36	47	37	32	24	28	29	25	17	13	23.3	46.6
25-May-05	8	9	11	15	7	11	16	20	23	26	29	26	27	27	29	28	25	24	23	12	4	4	7	6	17.4	29.1
26-May-05	3	4	1	calm	2	2	1	3	11	12	9	12	13	15	17	12	14	15	16	12	11	8	3	1	8.6	17.0
27-May-05	2	1	calm	1	2	2	3	6	13	15	19	18	19	19	19	17	18	19	19	15	13	13	10	8	11.8	19.4
28-May-05	4	2	4	4	6	5	4	11	14	17	15	19	23	21	22	23	24	23	23	20	16	15	18	18	14.7	23.5
29-May-05	16	13	12	10	11	12	10	13	14	13	14	15	19	19	21	20	18	19	18	17	12	11	7	8	14.2	20.5
30-May-05	2	3	1	1	4	3	10	19	17	17	22	27	25	21	15	14	15	20	34	28	14	14	19	9	14.8	33.8
31-May-05	15	8	10	18	14	10	8	9	5	7	7	12	16	20	21	25	17	14	37	26	15	16	9	9	14.6	37.5
1-hr Average	8.5	7.4	8.3	8.7	8.3	8.9	10.2	12.4	14.8	16.7	17.3	17.7	19.3	20.4	20.6	20.5	19.9	18.9	21.3	17.5	13.6	11.3	11.2	10.0		
Hourly Max	21.3	20.2	22.6	23.3	24.3	27.4	35.0	37.9	38.9	41.5	37.7	38.5	36.8	48.0	38.1	46.6	37.3	33.0	43.1	29.8	29.5	24.7	22.1	22.0		

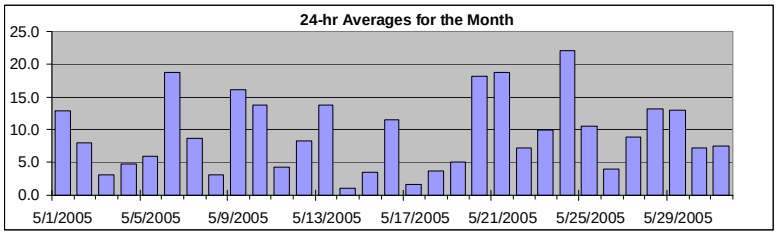
PASZA - Evergreen Park Vector Wind Speed Monthly Summary

Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Average:	45.4	km/hr	24-May	15:00 16:00
Maximum 24-hr Value:	22.0	km/hr	24-May	

Calm Time:	20 hrs	**3%** calms		Operational Time:			724 hrs	
Calibration Time:	0 hrs			AMD Operational Uptime:			100.0%	
Percentile	99	95	75	50	25	5	1	AverageV
	34.8	27.7	15.2	10.2	5.2	1.5	1.0	16.5 km/hr

Status Flag Characters

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

Day — **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hr Vector Average	Daily Max
1-May-05	9	10	12	12	12	12	11	7	9	15	16	12	14	13	8	15	10	10	12	13	12	9	7	6	12.9	16.2
2-May-05	1	2	3	7	9	3	7	4	3	3	5	6	4	5	2	6	14	17	17	14	11	13	13	4	8.0	17.4
3-May-05	3	3	2	9	10	9	3	1	4	13	9	3	1	8	34	19	11	8	32	10	11	4	2	2	3.2	34.2
4-May-05	3	calm	2	5	2	5	3	11	15	9	7	7	6	7	2	9	3	2	3	6	6	1	3	2	4.7	14.8
5-May-05	1	calm	1	3	3	12	10	3	12	12	13	15	20	12	12	15	23	20	18	12	20	20	20	21	5.9	22.7
6-May-05	20	19	22	22	23	25	28	28	30	28	28	23	22	20	15	4	11	14	8	16	15	16	19	6	18.8	29.7
7-May-05	13	17	11	2	8	9	9	9	9	11	5	6	6	6	5	8	6	3	9	13	9	6	2	6	8.7	17.0
8-May-05	calm	1	2	4	4	3	3	8	6	4	3	7	6	12	4	5	7	2	7	8	7	2	calm	calm	3.2	12.3
9-May-05	calm	calm	1	4	9	2	5	6	5	7	12	17	17	22	25	29	29	30	33	28	20	17	21	14	16.1	32.6
10-May-05	11	10	10	10	9	13	18	15	15	23	19	17	20	15	16	15	14	14	18	16	12	11	10	12	13.7	23.0
11-May-05	11	8	9	2	calm	1	4	3	1	2	9	9	10	6	14	16	13	1	9	8	11	3	6	11	4.3	15.7
12-May-05	1	3	1	3	3	calm	9	16	20	20	17	13	11	19	8	8	9	7	12	24	17	19	15	20	8.3	23.9
13-May-05	17	18	18	13	7	9	13	12	12	10	13	13	13	12	15	15	12	16	21	17	11	14	16	14	13.8	20.6
14-May-05	13	11	10	7	3	1	1	calm	4	2	3	1	8	9	4	6	9	11	19	15	13	14	9	7	1.0	18.8
15-May-05	9	1	3	1	2	1	1	3	2	11	3	4	6	9	3	3	10	15	16	9	14	8	7	5	3.5	16.1
16-May-05	3	4	2	4	5	13	15	21	22	21	16	14	8	13	12	14	18	12	16	18	9	5	8	4	11.6	22.1
17-May-05	3	4	11	8	9	9	9	12	16	12	15	9	2	6	13	13	8	10	12	8	7	2	3	2	1.6	15.8
18-May-05	calm	1	9	5	8	9	5	2	6	1	calm	3	3	3	4	9	11	12	14	13	15	11	10	11	3.7	14.6
19-May-05	7	2	7	7	3	9	3	8	7	3	3	6	6	10	5	12	8	16	24	17	19	13	4	1	5.0	24.1
20-May-05	2	9	1	1	2	5	14	8	28	39	33	32	32	35	32	32	25	17	22	23	11	10	13	18	18.1	39.4
21-May-05	17	16	16	19	23	27	34	37	37	32	28	28	25	17	35	17	13	8	11	16	4	1	4	1	18.8	36.8
22-May-05	2	3	2	7	7	5	2	6	9	7	2	2	28	44	16	16	13	15	41	14	14	5	16	17	7.3	44.4
23-May-05	8	7	11	8	6	10	8	8	7	13	19	11	12	14	17	26	28	22	16	16	10	10	11	11	10.0	28.3
24-May-05	12	10	8	10	12	11	11	16	19	18	25	28	34	30	34	45	35	29	21	26	29	24	9	12	22.0	45.4
25-May-05	3	6	10	15	6	10	14	19	21	23	21	18	17	19	21	22	22	18	18	8	2	3	5	1	10.6	22.8
26-May-05	2	4	calm	calm	1	1	calm	1	7	7	3	2	5	7	12	5	9	10	13	10	10	7	calm	1	4.1	13.3
27-May-05	2	calm	calm	calm	1	2	3	3	11	11	14	11	12	12	10	10	12	14	14	13	12	13	10	8	8.9	14.4
28-May-05	3	1	4	3	5	5	4	9	12	11	11	15	17	15	16	17	19	20	20	18	15	14	17	17	13.2	20.3
29-May-05	15	12	11	9	10	11	8	9	12	9	9	9	13	14	15	16	14	16	14	15	11	11	4	8	13.0	15.6
30-May-05	1	2	1	calm	4	2	7	16	13	13	16	22	18	11	5	10	9	18	31	16	9	7	15	5	7.3	31.0
31-May-05	6	5	9	17	12	1	4	7	2	3	5	4	10	15	15	21	14	13	30	18	2	8	7	8	7.5	29.6
1-hr Vector	3.5	4.2	5.0	5.8	5.1	4.4	6.7	8.6	8.1	7.2	8.4	9.6	11.5	11.8	13.0	10.6	8.5	7.6	11.0	8.4	6.5	5.6	6.7	6.5		
Hourly Max	19.7	19.2	21.9	22.4	23.4	26.9	34.4	36.5	36.8	39.4	33.2	31.9	34.2	44.4	35.5	45.4	34.6	30.0	40.6	28.2	28.6	23.7	21.2	21.0		

PASZA - Evergreen Park Wind Direction Monthly Summary

Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: May 1, 2005 to June 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																			
	354.1	312.3	203.9	151.2	103.4	40.4	13.4	154 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 / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	WD Sector
1-May-05	131	129	128	131	129	126	123	145	237	189	171	139	112	124	123	95	131	131	125	121	116	124	148	135	133	SE
2-May-05	103	26	73	131	136	138	122	230	217	294	137	151	211	93	146	155	96	102	96	95	88	105	124	80	123	ESE
3-May-05	7	279	284	357	353	353	75	227	304	315	31	58	246	183	152	102	91	257	144	72	95	47	65	63	94	E
4-May-05	32	46	75	50	70	52	60	132	145	159	110	172	210	164	133	167	298	224	266	179	199	251	238	300	163	SSE
5-May-05	6	215	126	126	68	254	301	67	50	56	80	155	128	154	148	231	188	221	241	276	75	82	80	93	139	SE
6-May-05	93	103	100	100	110	107	109	105	102	102	106	113	118	123	108	7	340	53	29	68	71	71	79	96	95	E
7-May-05	68	80	98	128	95	68	80	92	106	117	183	39	134	66	111	103	82	354	114	76	48	36	99	26	87	E
8-May-05	32	78	45	32	32	37	45	121	121	76	301	49	310	53	32	112	217	333	59	143	163	172	54	47	65	ENE
9-May-05	65	42	72	163	186	230	67	150	307	165	109	109	93	96	96	86	88	98	92	93	98	97	100	117	101	E
10-May-05	127	118	107	113	127	124	148	166	179	200	208	226	212	226	184	214	258	244	227	214	191	194	207	198	196	SSW
11-May-05	183	167	164	107	77	100	102	100	241	345	43	34	40	121	160	214	163	120	84	56	354	24	27	102	109	ESE
12-May-05	105	62	349	311	276	224	152	158	177	166	166	165	209	152	189	249	4	337	50	98	108	108	105	95	145	SE
13-May-05	93	112	120	127	120	114	123	142	134	139	146	133	202	170	190	211	204	199	201	188	157	165	179	201	161	SSE
14-May-05	183	172	178	158	145	48	101	148	310	261	163	120	86	220	208	202	152	25	24	348	354	4	355	11	80	E
15-May-05	22	341	70	342	40	354	347	32	110	50	302	236	215	237	214	156	122	196	184	180	130	189	51	49	172	S
16-May-05	42	357	167	151	123	119	137	145	172	170	173	157	226	247	240	187	176	171	200	224	238	206	203	184	183	S
17-May-05	199	192	188	219	173	163	168	187	195	207	258	275	82	15	299	311	24	64	61	65	68	28	56	187	194	SSW
18-May-05	273	317	282	282	282	298	29	277	330	192	92	288	278	121	133	103	131	122	109	116	107	122	128	123	123	ESE
19-May-05	132	357	38	49	56	355	330	289	33	337	108	203	223	239	226	97	75	68	130	132	109	123	177	115	108	ESE
20-May-05	30	66	348	116	356	50	104	126	144	132	150	149	176	169	188	160	139	87	158	83	123	136	130	142	143	SE
21-May-05	143	141	149	147	143	135	144	148	159	176	195	179	176	201	153	192	261	207	82	99	102	45	69	122	161	SSE
22-May-05	216	145	125	134	147	171	207	169	202	298	25	101	132	159	217	326	298	160	142	262	308	67	150	157	171	S
23-May-05	286	172	135	105	121	143	182	182	252	312	286	241	185	215	163	155	176	225	253	215	208	158	158	179	196	SSW
24-May-05	194	191	207	179	165	165	195	191	170	170	170	178	164	152	144	147	160	209	191	151	146	148	191	171	168	SSE
25-May-05	141	223	157	147	180	195	191	185	156	164	161	236	217	243	263	264	258	268	289	343	12	109	155	63	216	SW
26-May-05	53	154	152	95	53	82	41	220	239	297	307	5	73	45	103	117	87	116	121	145	142	159	161	115	105	ESE
27-May-05	105	117	84	177	144	143	92	299	278	262	241	212	254	188	190	187	193	185	162	173	162	167	150	143	196	SSW
28-May-05	163	76	147	144	150	149	143	230	240	252	214	200	230	241	248	199	193	206	200	215	205	198	224	224	213	SSW
29-May-05	209	186	178	169	184	190	202	243	265	248	238	241	193	200	207	195	210	190	203	197	188	189	175	170	204	SSW
30-May-05	146	116	344	74	40	57	105	156	172	181	212	210	224	262	319	332	223	150	117	139	210	321	172	91	182	S
31-May-05	350	102	106	157	158	136	113	159	113	315	320	356	93	123	112	128	117	83	95	182	266	306	49	132	116	ESE
Hourly Avg	130	131	133	131	131	131	131	158	171	178	170	171	180	171	170	166	164	169	139	140	128	127	135	133		

PASZA - Evergreen Park Standard Deviation of Wind Direction Monthly Summary

Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: May 1, 2005 to June 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
	78.2	71.3	53.2	36.7	23.2	14.1	10.1

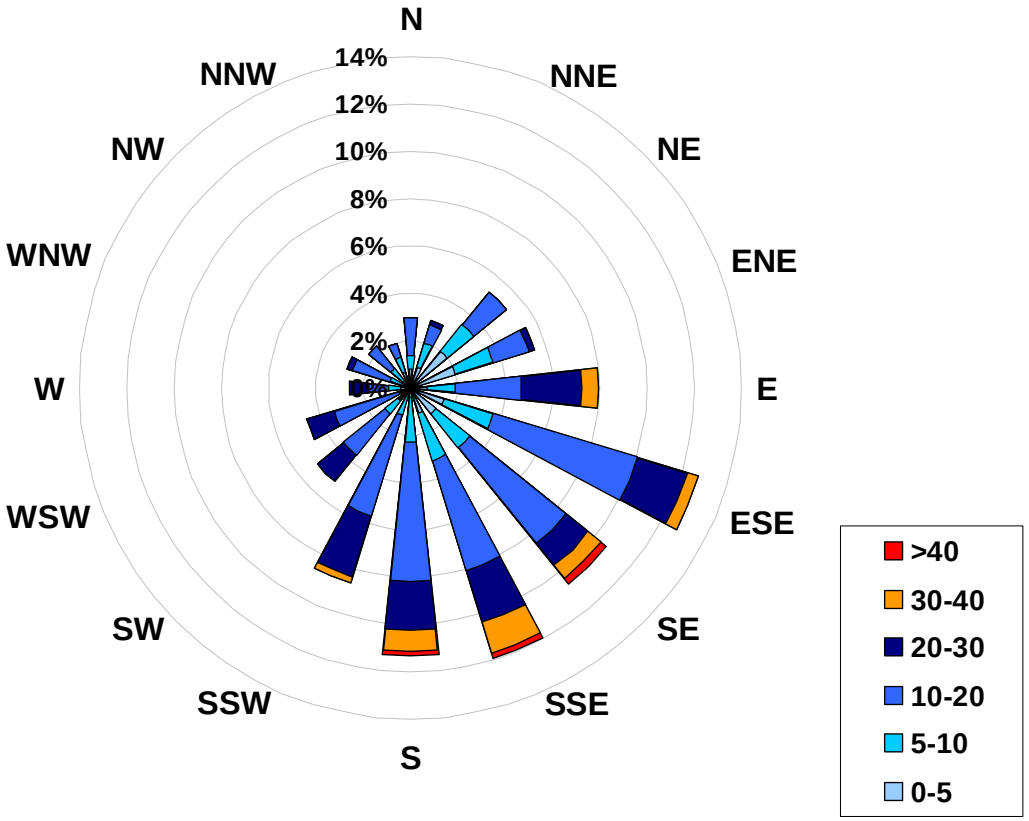
Status Flag Characters

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

Day — **Mountain Standard Time**

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-May-05	8	8	9	9	8	9	16	42	46	41	43	58	56	58	70	53	57	58	47	27	15	11	11	10	69.8
2-May-05	47	43	31	14	11	41	18	72	76	65	77	65	78	68	77	58	54	33	30	20	11	11	18	26	78.3
3-May-05	40	64	45	57	28	36	49	39	39	37	51	80	79	65	21	33	55	42	19	49	13	52	41	56	79.6
4-May-05	54	51	70	54	63	21	34	21	24	47	56	69	68	69	77	61	62	72	72	37	33	64	34	50	76.5
5-May-05	45	76	58	70	56	30	64	51	22	34	48	41	35	51	55	47	41	36	30	25	19	18	18	18	75.6
6-May-05	20	20	15	16	20	17	19	19	18	21	18	20	22	23	25	31	21	33	38	22	14	16	16	56	55.8
7-May-05	19	15	38	30	12	12	15	17	28	39	57	67	62	63	63	59	71	62	36	19	18	30	71	14	71.4
8-May-05	54	64	40	27	13	18	41	20	46	61	80	68	66	45	68	55	70	73	61	33	21	24	55	31	79.7
9-May-05	22	62	58	31	16	49	20	55	49	68	55	41	45	41	33	26	29	25	19	20	15	19	16	21	67.5
10-May-05	19	15	13	13	16	15	22	29	34	30	34	39	40	49	46	48	52	39	33	31	19	18	18	20	52.2
11-May-05	20	21	18	36	62	66	37	76	77	71	44	37	34	59	31	31	47	63	31	20	18	58	35	25	77.2
12-May-05	59	35	44	33	24	58	23	23	27	26	43	58	42	39	60	62	46	69	38	18	21	21	29	20	68.8
13-May-05	21	25	25	27	38	25	34	42	48	60	51	50	51	57	50	48	47	37	31	26	24	20	17	19	60.4
14-May-05	18	20	18	17	32	46	77	63	70	71	73	72	59	48	66	59	55	50	23	25	22	16	19	19	76.6
15-May-05	23	65	68	69	43	82	61	53	65	25	65	71	70	56	69	67	52	40	27	29	40	54	28	51	82.4
16-May-05	50	41	46	55	30	18	38	21	21	22	27	30	62	48	57	52	37	45	39	24	25	25	22	33	61.9
17-May-05	55	38	26	31	23	24	24	25	24	34	28	26	52	52	40	35	43	42	32	35	35	52	57	55	56.8
18-May-05	51	58	23	29	27	29	44	66	55	72	70	68	75	78	75	57	40	47	36	34	26	24	24	28	78.2
19-May-05	54	45	36	30	43	26	60	50	58	77	79	78	61	69	78	54	52	22	22	18	13	11	45	58	79.5
20-May-05	56	14	55	77	41	34	16	28	21	18	26	33	26	35	32	24	24	21	32	21	20	15	15	10	76.7
21-May-05	10	11	11	11	10	11	10	15	18	24	32	30	38	46	22	33	47	50	45	32	56	34	36	71	71.3
22-May-05	36	44	72	14	21	25	70	48	50	52	76	56	42	19	42	39	45	43	18	34	27	41	13	26	76.1
23-May-05	38	30	23	19	54	26	24	26	25	24	23	33	38	29	23	17	20	25	26	28	30	18	19	23	53.7
24-May-05	20	25	33	23	22	28	27	22	23	37	27	26	19	18	20	12	21	26	23	16	13	19	51	24	50.7
25-May-05	53	21	13	13	32	27	25	23	26	26	29	47	47	47	39	39	33	41	29	37	49	47	28	68	67.8
26-May-05	33	46	46	58	51	78	71	71	51	58	79	79	70	70	51	76	57	57	38	36	29	15	54	62	79.2
27-May-05	55	69	24	57	50	54	28	47	45	49	50	54	54	61	64	52	53	44	39	33	27	22	18	14	69.0
28-May-05	48	51	27	25	16	17	23	40	42	47	44	42	42	48	47	42	40	31	30	26	26	22	25	20	51.3
29-May-05	19	20	15	21	17	19	33	45	40	57	53	57	53	50	43	42	37	39	39	28	22	22	38	16	56.8
30-May-05	63	64	69	59	28	49	23	23	26	37	39	32	45	58	71	52	45	27	17	45	44	39	42	49	70.6
31-May-05	70	50	27	13	27	69	38	45	48	62	58	62	56	43	46	31	35	27	36	24	54	53	45	28	69.9
Hourly Max	70	76	72	77	63	82	77	76	77	77	80	80	79	78	78	76	71	73	72	49	56	64	71	71	

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



Calms:	1%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.0	<	5	101
5	to	10	138
10	to	20	334
20	to	30	127
30	to	40	33
	>	40	5
Total Non-Zero Values			738

PASZA - Smoky Heights Monthly Summary Tables, Graphs, and Roses

PASZA - Smoky Heights Sulphur Dioxide Monthly Summary

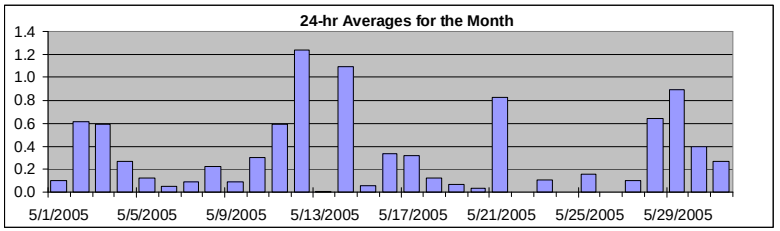
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO_2)

Station: Smoky Heights
Station Owner: PASZA

Monitoring Dates: May 1, 2005 to June 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:	8.1	ppb	21-May	5:00 6:00
Maximum 24-hr Average:	1.2	ppb	12-May	

AIC Time:	18 hrs	Operational Time:	720 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average
	2.4	1.4	0.3	0.1	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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-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	0.1	0.3
2-May-05	0	0	0	0	0	0	0	1	1	2	2	A	1	1	1	1	1	1	0	0	0	0	0	0	0.6	1.6
3-May-05	0	0	0	0	0	2	1	1	1	1	A	1	0	0	0	0	0	0	1	2	2	0	1	0	0.6	2.2
4-May-05	0	0	0	0	0	0	0	0	1	A	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0.3	0.6
5-May-05	0	0	0	0	0	1	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6
6-May-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	0.3
7-May-05	0	0	0	0	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
8-May-05	1	0	0	0	0	A	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
9-May-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	0.1	0.3
10-May-05	0	0	0	A	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0.3	1.1
11-May-05	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0.6	1.4
12-May-05	0	A	1	5	1	7	7	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1.2	7.4
13-May-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	0.0
14-May-05	2	3	3	2	2	2	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	A	0	1.1	2.7
15-May-05	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	0.4
16-May-05	0	0	0	0	0	0	0	0	1	1	0	1	1	1	0	0	0	0	0	0	A	0	0	0	0.3	1.3
17-May-05	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.3	0.7
18-May-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	0.1	0.3
19-May-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	0.1	0.8
20-May-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
21-May-05	0	1	1	2	2	8	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	8.1
22-May-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
23-May-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	0.5
24-May-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
25-May-05	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.8
26-May-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
27-May-05	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.8
28-May-05	0	0	0	0	0	1	1	1	1	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0.6	2.3
29-May-05	1	1	2	2	2	1	1	1	1	1	0	1	1	1	1	0	1	1	1	0	1	0	0	0	0.9	2.3
30-May-05	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0.4	1.2
31-May-05	1	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	1	0	D	0	0	0	0	0	0.3	1.7
Hourly Avg	0.2	0.3	0.3	0.5	0.4	0.8	0.6	0.5	0.5	0.4	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.1		
Hourly Max	2.3	2.7	2.7	4.7	2.5	8.1	7.4	2.2	1.8	1.7	2.3	1.4	1.0	1.7	1.6	1.0	1.3	0.8	0.7	1.5	1.8	1.1	1.0	0.5		

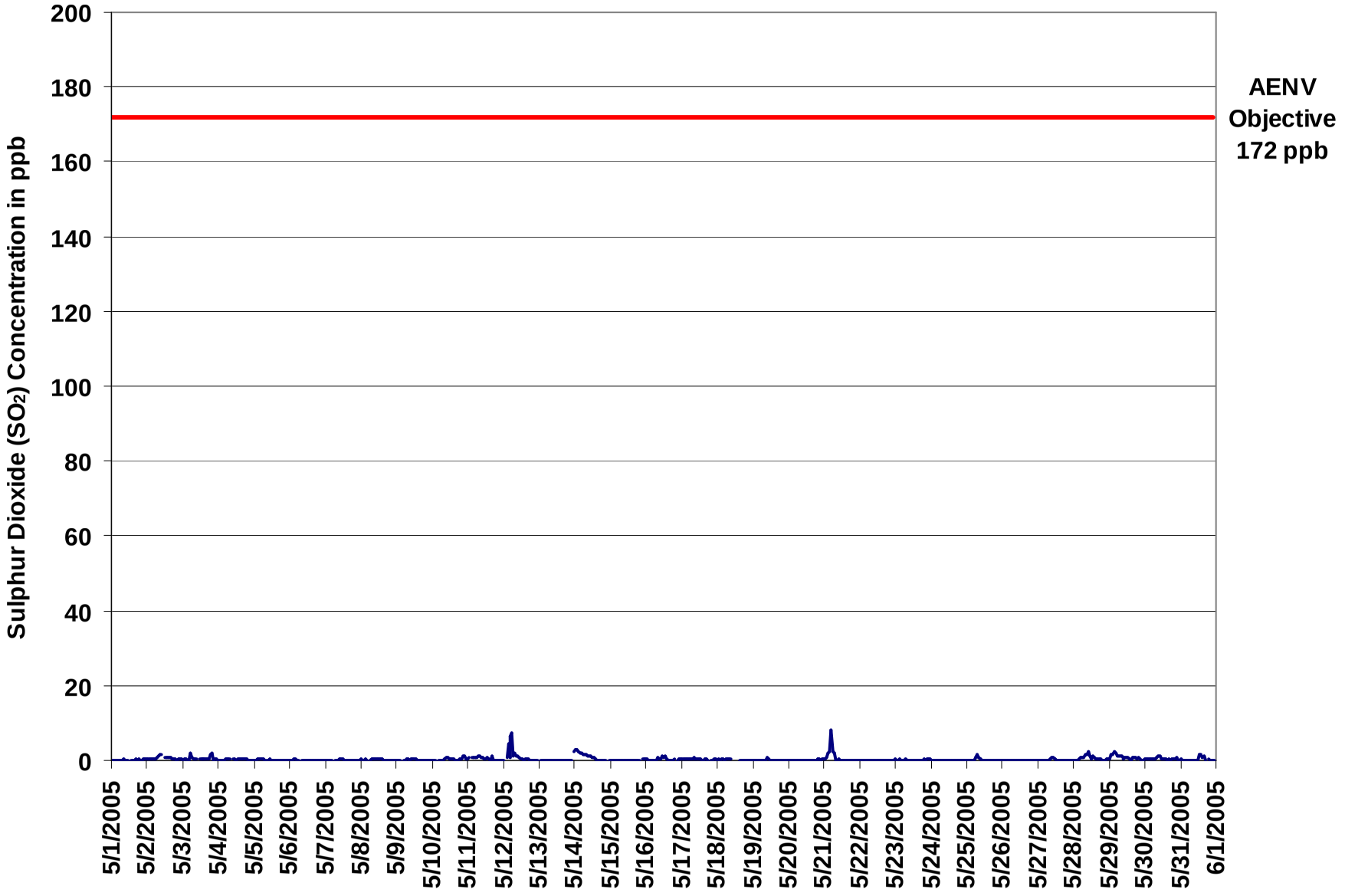


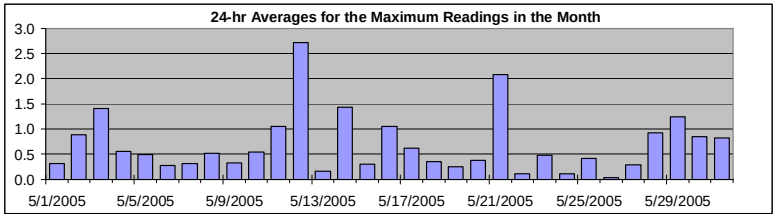
Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

HOURLY MAXIMUM TABLE

Sulphur Dioxide (SO_2)

Station: Smoky Heights
Station Owner: PASZA

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Value:	15.4	ppb	12-May	3:00 4:00
Maximum 24-hr Value:	2.7	ppb	12-May	

AIC Time:	18 hrs	Operational Time:	720 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	99.9%

Percentile	99	95	75	50	25	5	1	Average
	5.6	2.2	0.7	0.4	0.1	0.0	0.0	0.7 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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	0	0	0	0	0	0	0	0	1	0	0	0	A	0	0	0	0	0	0	0	0	1	0	1	0.3	0.7
2-May-05	1	1	1	0	0	1	1	1	2	2	2	A	1	1	1	1	1	1	1	1	1	1	0	0	0.9	2.0
3-May-05	0	0	0	0	1	5	3	1	1	1	A	1	1	1	1	1	0	1	1	5	4	1	3	1	1.4	5.4
4-May-05	0	0	0	0	0	0	0	1	1	A	0	1	0	1	1	1	1	1	1	1	1	1	0	0	0.6	1.1
5-May-05	0	0	0	1	1	1	2	0	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.8
6-May-05	0	1	0	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
7-May-05	0	0	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7
8-May-05	1	0	0	0	1	A	0	1	1	1	1	1	0	0	1	0	0	0	0	1	0	0	0	0	0.5	1.0
9-May-05	0	0	0	0	A	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.3	0.7
10-May-05	0	0	0	A	0	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0	1	2	2	1	0.5	1.6
11-May-05	1	1	A	1	1	1	2	2	2	1	1	1	1	1	1	1	4	0	0	0	0	0	0	0	1.0	4.1
12-May-05	1	A	2	15	2	15	13	2	3	2	2	2	0	0	0	1	0	0	0	0	0	0	0	0	2.7	15.4
13-May-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	0.3
14-May-05	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	A	0	1.4	3.1
15-May-05	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0.3	0.7
16-May-05	1	1	0	0	0	0	0	0	3	2	1	4	4	2	1	1	0	1	0	1	A	0	1	1	1.0	3.9
17-May-05	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	A	1	0	0	1	0.6	1.1
18-May-05	0	1	0	0	0	0	1	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0.4	0.7
19-May-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	0.3	1.5
20-May-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	2	1	2	0.4	2.2
21-May-05	2	2	6	6	10	11	6	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2.1	10.6
22-May-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	0.1	0.4
23-May-05	2	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	0.5	2.1
24-May-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	0.1	0.4
25-May-05	0	0	0	0	0	0	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.8
26-May-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
27-May-05	0	0	0	0	0	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0.3	1.3
28-May-05	0	0	0	0	1	1	1	1	2	2	2	2	1	2	1	1	1	1	1	0	0	0	1	0	0.9	2.4
29-May-05	1	2	2	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1.2	2.7
30-May-05	0	1	1	1	1	0	1	1	2	2	2	1	0	0	0	0	0	0	0	1	0	3	0	1	0.9	3.5
31-May-05	1	1	0	0	0	0	0	0	0	1	0	0	0	4	5	2	2	1	D	1	1	0	0	0	0.8	4.6
Hourly Avg	0.6	0.5	0.6	1.2	0.9	1.5	1.3	0.8	0.9	0.8	0.7	0.8	0.6	0.7	0.6	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.4		
Hourly Max	2.8	3.1	5.6	15.4	9.9	15.3	12.6	3.7	2.8	2.4	2.4	3.8	3.9	3.8	4.6	1.6	4.1	1.3	1.4	4.9	4.1	3.5	2.6	2.2		

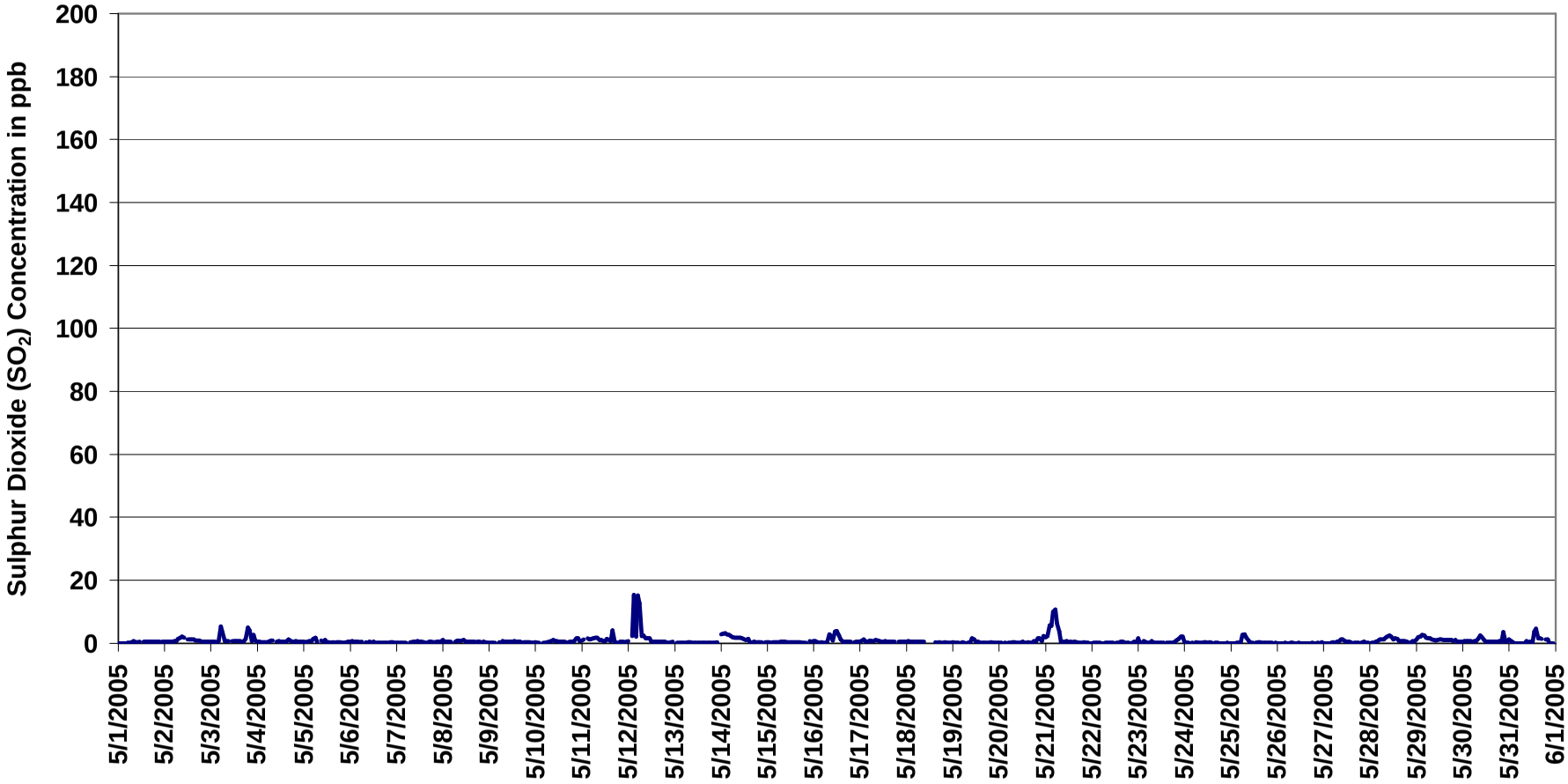
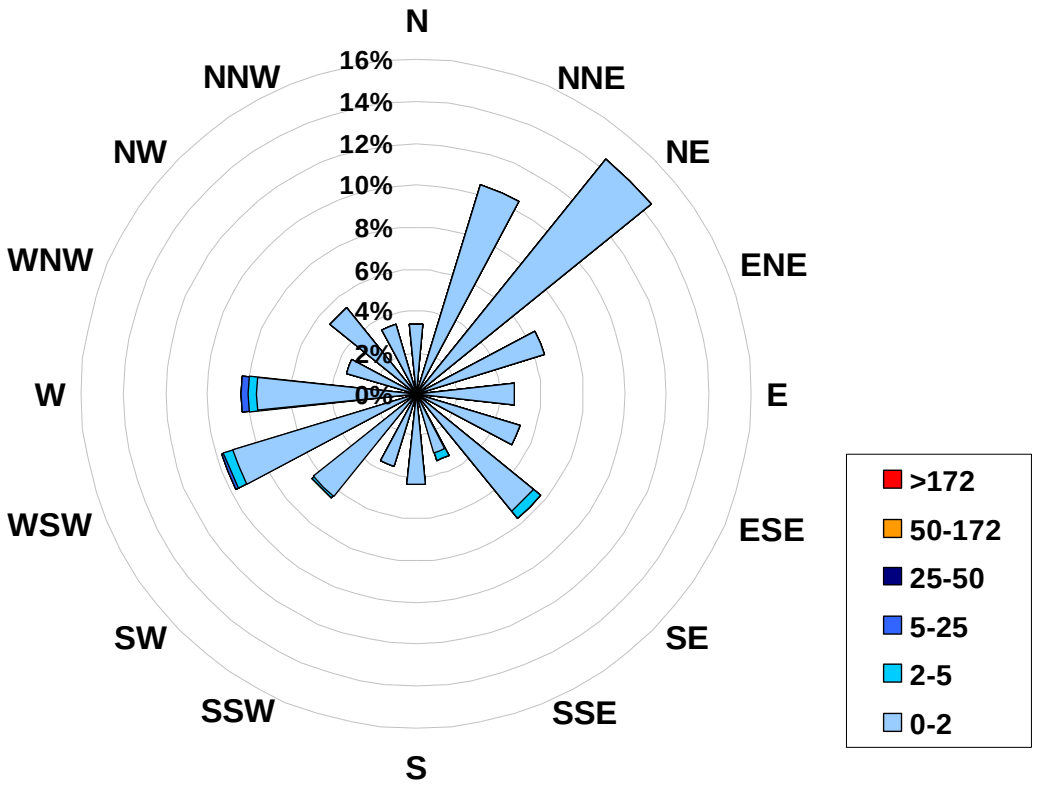


Figure 28. PASZA - Smoky Heights Sulphur Dioxide 1-hr Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of SO_2 in ppb			
Range			Frequency (hrs)
0.0	<	2	704
2	to	5	13
5	to	25	3
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			720

PASZA - Smoky Heights Total Reduced Sulphur Monthly Summary

Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

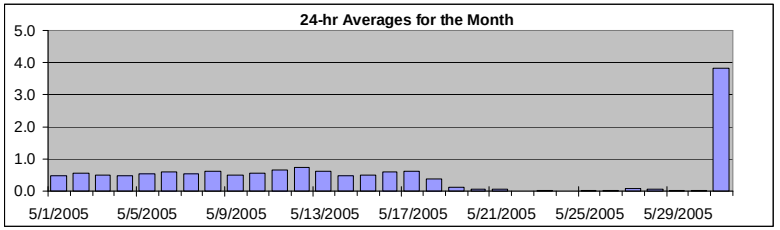
Total Reduced Sulphur (TRS)

Monitoring Dates: May 1, 2005 to June 1, 2005

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

Summary

Maximum 1-hr Average:	7.7	ppb	31-May	18:00 19:00
Maximum 24-hr Value:	3.8	ppb	31-May	



AIC Time:	18 hrs	Operational Time:	721 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	5.4	0.8	0.6	0.5	0.0	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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	0	0	0	0	0	0	0	0	1	1	1	1	A	1	1	1	0	1	1	1	1	1	0	0	0.5	0.8
2-May-05	0	0	0	0	0	0	0	0	1	1	1	A	1	1	1	1	0	1	1	1	2	1	1	1	0.6	1.6
3-May-05	1	0	0	0	0	0	1	0	0	1	A	1	1	1	0	1	0	1	1	1	1	1	1	1	0.5	0.6
4-May-05	1	1	0	0	0	0	1	1	1	A	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0.5	0.7
5-May-05	0	0	1	1	0	1	1	1	A	1	1	0	1	1	1	1	0	0	0	1	1	1	1	1	0.5	0.7
6-May-05	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0	1	1	0	0	0	1	0	1	1	0.6	0.8
7-May-05	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0.6	0.6
8-May-05	1	1	1	1	1	A	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0.6	0.9
9-May-05	1	1	0	1	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.5	0.6
10-May-05	0	1	1	A	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
11-May-05	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0.7	0.9
12-May-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	0.8	0.9
13-May-05	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	A	0.6	0.8
14-May-05	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	1	0	0	0	0	0	A	1	0.5	0.6
15-May-05	1	1	0	0	1	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	A	1	1	0.5	0.7
16-May-05	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	0	1	1	A	1	1	1	0.6	0.9
17-May-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	0.6	1.0
18-May-05	1	1	1	1	1	1	1	1	1	1	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0.4	0.7
19-May-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	0.1	0.2
20-May-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	0.1	0.3
21-May-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	0.1	0.3
22-May-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
23-May-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
24-May-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
25-May-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	0.4
26-May-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	0.4
27-May-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.1	0.6
28-May-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	0.1	0.4
29-May-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
30-May-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
31-May-05	0	1	1	1	1	1	2	2	2	2	3	3	4	5	5	6	7	7	8	8	7	6	5	5	3.8	7.7
Hourly Avg	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5		
Hourly Max	0.9	0.8	0.9	1.0	1.2	1.4	1.6	1.7	1.9	2.1	2.7	3.3	4.0	4.7	5.4	6.1	6.8	7.4	7.7	7.6	7.0	6.1	5.4	5.0		

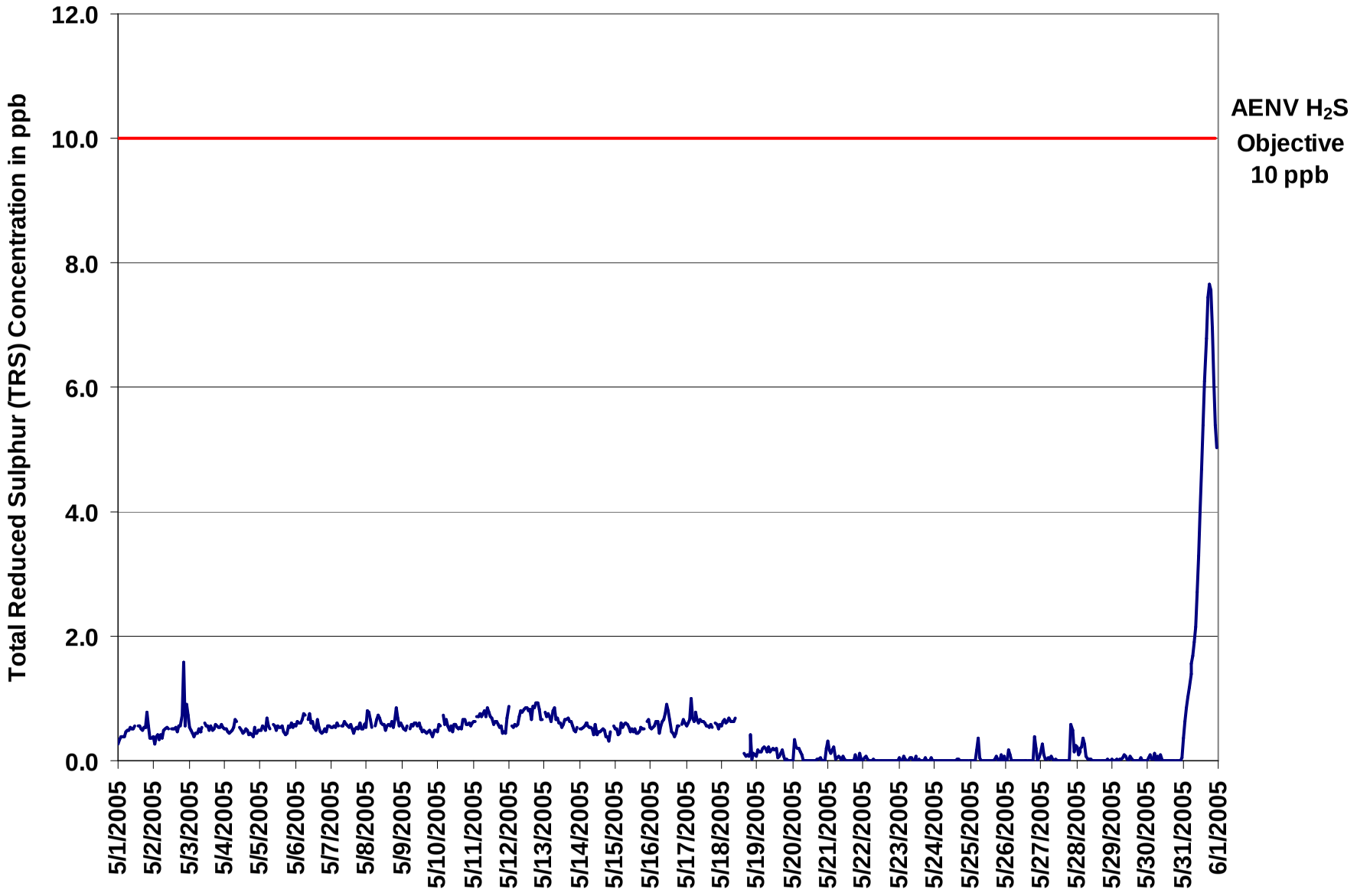


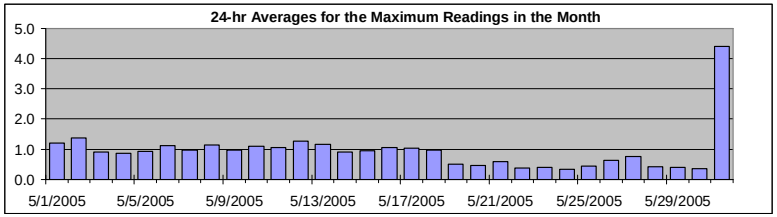
Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights
Station Owner: PASZA

HOURLY MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Value:	8.4	ppb	31-May	18:00 19:00
Maximum 24-hr Value:	4.4	ppb	31-May	

AIC Time:	18 hrs	Operational Time:	721 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%

Percentile	99	95	75	50	25	5	1	Average
	6.8	1.8	1.0	0.9	0.4	0.3	0.2	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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	8	2	1	1	1.2	7.6
2-May-05	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	8	1	5	1	1.4	7.5
3-May-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	0.9	1.2
4-May-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	1.1
5-May-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	1.4
6-May-05	1	1	1	1	1	1	1	A	1	3	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1.1	2.7
7-May-05	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.3
8-May-05	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1.1	2.9
9-May-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	1.5
10-May-05	1	1	1	A	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.4
11-May-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	1.0	1.3
12-May-05	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1.3	1.9
13-May-05	A	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	A	1.2	2.0
14-May-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	1.2
15-May-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	2	1.0	1.8
16-May-05	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1.0	1.7
17-May-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	1.0	1.5
18-May-05	1	1	1	1	1	1	1	1	1	1	C	C	C	C	C	1	1	1	0	2	2	0	1	0	1.0	2.4
19-May-05	0	1	0	0	1	1	1	0	1	1	1	0	0	1	0	1	1	0	0	0	0	0	0	0	0.5	0.8
20-May-05	0	1	1	1	1	1	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0.5	0.9
21-May-05	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0.6	2.3
22-May-05	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.4	0.7
23-May-05	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.4	0.6
24-May-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	0.3	0.5
25-May-05	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0.4	1.2
26-May-05	0	0	1	1	0	1	1	0	0	0	1	0	0	0	1	0	0	0	0	0	4	1	0	1	0.6	4.5
27-May-05	1	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	3	1	1	0.8	5.0
28-May-05	1	0	1	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
29-May-05	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.4	0.6
30-May-05	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
31-May-05	1	1	1	1	2	2	2	2	2	3	3	4	5	5	6	7	7	8	8	8	8	7	6	6	4.4	8.4
Hourly Avg	0.7	0.8	0.8	0.8	0.8	0.9	0.9	0.8	0.8	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.8	1.2	1.1	0.9		
Hourly Max	1.3	1.2	1.3	1.5	2.2	1.9	2.4	2.0	2.2	2.7	3.3	4.0	4.7	5.2	6.0	6.8	7.4	8.2	8.4	8.1	8.3	6.7	6.2	5.8		

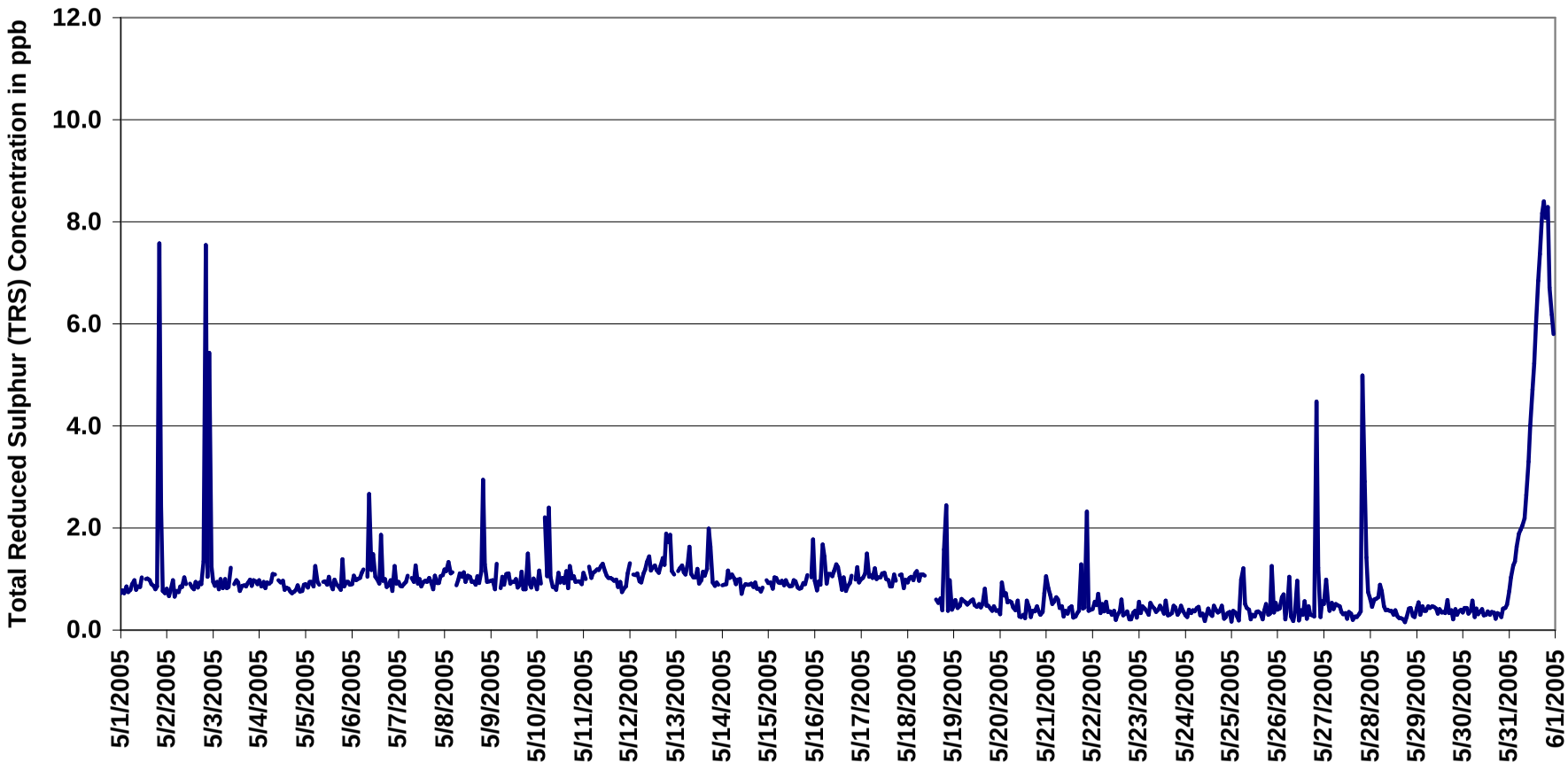
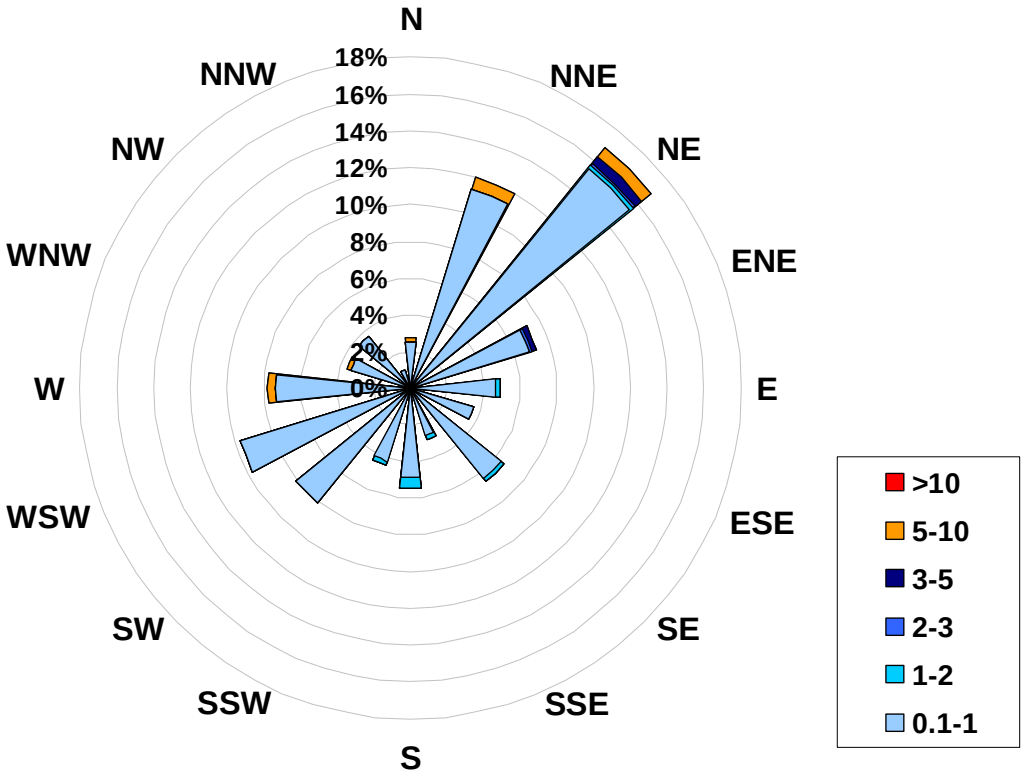


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Maximum Value Monthly Trend

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



Calms:	0%

Frequency Distribution of TRS in ppb			
Range			Frequency (hrs)
0.1	<	1	698
1	to	2	8
2	to	3	2
3	to	5	3
5	to	10	10
	>	10	0
Total Non-Zero Values			721

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

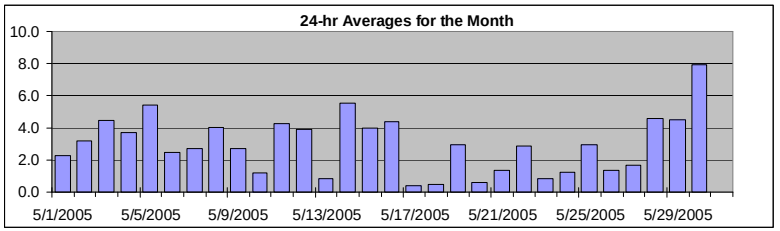
Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: May 1, 2005 to June 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:	52.3	µg/m³	31-May	23:00 0:00
Maximum 24-hr Value:	8.0	µg/m³	30-May	

AIC Time:	0 hrs	Operational Time:	725 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	97.4%

Percentile	99	95	75	50	25	5	1	Average	Geomean
	20.3	10.1	4.5	2.2	0.5	0.0	0.0	3.3 µg/m³	2.4 µg/m³

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	4	4	5	5	4	4	4	3	1	0	2	0	0	0	1	0	1	1	5	3	2	3	3	2	2.3	5.2
2-May-05	1	2	2	2	3	3	5	4	3	4	4	1	1	1	1	2	1	2	3	4	6	7	9	6	3.2	9.3
3-May-05	5	3	4	9	5	9	5	5	4	4	4	2	3	3	4	10	2	3	4	5	3	6	3	3	4.5	10.5
4-May-05	3	3	3	3	2	3	7	7	1	4	1	0	0	0	0	3	3	3	3	8	8	13	6	5	3.7	13.5
5-May-05	5	4	6	9	10	6	10	7	3	5	1	2	D	1	0	3	0	5	13	13	6	7	5	4	5.4	13.2
6-May-05	4	4	5	5	5	6	5	4	3	4	2	1	3	2	0	0	0	0	0	1	1	1	1	2	2.5	5.8
7-May-05	3	3	2	2	2	3	2	2	2	2	2	1	0	1	2	2	0	0	1	13	3	6	6	4	2.7	12.5
8-May-05	5	6	6	6	4	6	6	6	10	5	0	0	0	1	4	3	4	3	3	3	3	5	4	3	4.0	10.1
9-May-05	2	2	4	3	3	4	7	4	6	5	3	4	3	3	2	2	3	1	0	0	1	1	1	0	2.7	6.6
10-May-05	0	0	0	0	1	1	1	1	1	1	1	1	1	0	1	2	0	2	1	2	3	3	3	2	1.2	2.9
11-May-05	2	2	2	6	2	4	16	2	4	4	4	3	5	7	5	9	6	2	3	4	3	4	3	0	4.3	16.1
12-May-05	0	0	1	2	1	2	5	3	4	2	2	2	1	4	7	6	16	11	6	5	5	4	3	2	3.9	15.5
13-May-05	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	3	3	2	1	2	2	0.9	3.1
14-May-05	3	3	3	7	9	6	8	5	7	7	9	9	7	9	4	2	1	7	5	12	2	2	4	3	5.5	12.4
15-May-05	7	6	4	2	3	9	15	15	0	2	0	0	0	0	1	0	1	6	0	5	1	6	7	6	4.0	15.4
16-May-05	7	8	5	5	8	8	9	12	13	12	3	5	2	0	D	0	D	0	0	0	0	0	0	0	4.4	13.2
17-May-05	0	0	0	0	1	1	1	0	1	1	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0.4	1.6
18-May-05	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	1	0	1	1	1	1	1	3	0	0.5	2.6
19-May-05	0	0	2	1	0	0	1	1	2	4	3	1	8	22	9	1	8	4	1	0	0	1	0	0	2.9	22.3
20-May-05	0	0	1	0	0	0	1	2	D	D	D	D	0	0	0	0	0	0	0	0	3	3	1	1	0.6	3.0
21-May-05	1	2	1	1	1	2	1	1	0	0	0	0	2	1	0	0	0	6	7	1	2	4	0	0	1.4	6.8
22-May-05	1	8	3	3	8	4	5	5	3	3	0	3	0	D	5	1	3	0	0	5	0	4	1	1	2.9	8.1
23-May-05	1	1	1	2	1	2	2	3	2	0	0	0	0	0	0	1	1	1	1	0	1	0	0	0	0.9	2.6
24-May-05	0	4	0	1	0	0	0	1	2	2	0	1	2	0	3	0	0	0	2	4	6	2	1	0	1.3	5.7
25-May-05	1	11	17	0	0	1	3	4	2	0	D	0	0	0	2	0	2	2	2	3	4	6	4	4	2.9	17.2
26-May-05	0	0	0	0	0	3	3	0	0	D	0	D	D	0	0	0	0	0	2	2	1	2	9	5	1.4	8.8
27-May-05	5	4	0	1	0	5	10	0	2	0	0	0	0	1	1	0	2	0	1	0	1	3	2	2	1.7	10.1
28-May-05	1	1	5	12	12	21	18	7	3	0	3	1	2	2	3	2	1	1	1	6	3	4	0	2	4.6	20.9
29-May-05	2	3	3	5	5	6	5	5	5	5	6	6	5	3	0	4	3	8	10	7	2	4	4	3	4.5	9.5
30-May-05	2	2	5	3	4	10	6	11	7	12	5	9	5	9	4	3	9	13	21	23	11	7	2	8	8.0	23.4
31-May-05	0	4	10	9	11	11	8	9	10	10	10	0	D	D	D	D	D	D	D	4	33	42	51	52	N	52.3
Hourly Avg	2.1	3.0	3.2	3.4	3.4	4.5	5.5	4.1	3.4	3.4	2.4	1.9	1.8	2.5	2.1	1.9	2.4	2.8	3.3	4.4	3.8	4.8	4.4	3.9		
Hourly Max	7.0	10.7	17.2	11.6	12.1	20.9	18.5	15.4	13.2	11.9	10.0	8.9	8.5	22.3	9.1	10.5	15.5	12.9	20.9	23.4	33.5	41.8	50.7	52.3		

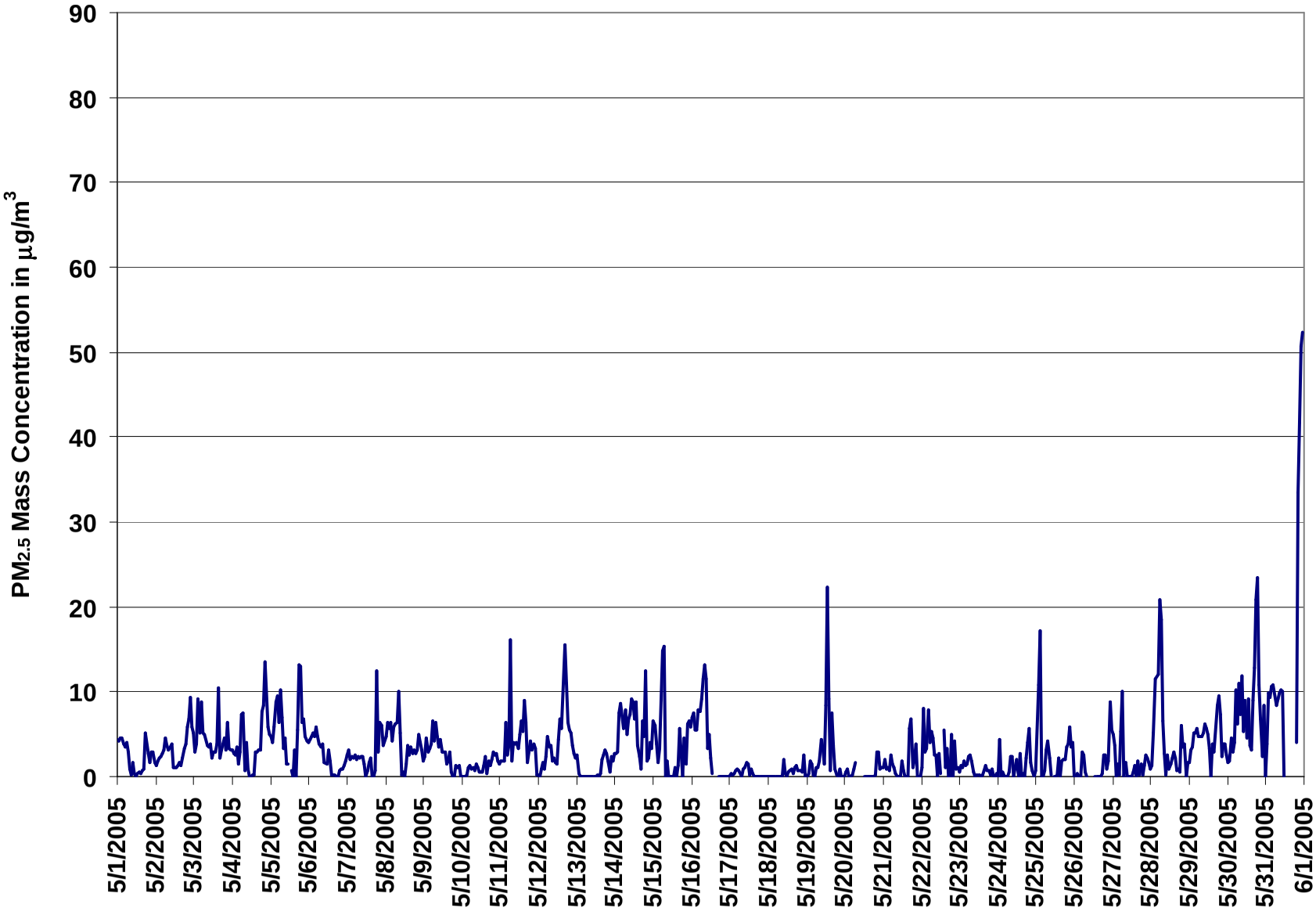


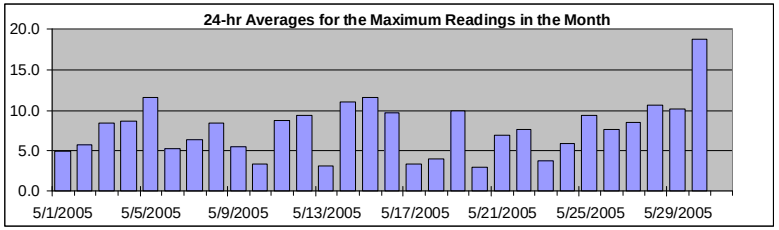
Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights
Station Owner: PASZA

HOURLY MAXIMUM TABLE

Particulate Matter ($PM_{2.5}$)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Average:	70.2	µg/m³	30-May	19:00 20:00
Maximum 24-hr Value:	18.8	µg/m³	30-May	

AIC Time:	0 hrs	Operational Time:	725 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	97.4%

Percentile	99	95	75	50	25	5	1	Average	Geomean
	43.3	21.2	9.8	6.1	3.8	1.7	0.6	8.1 µg/m˘	7.0 µg/m˘

Status Flag Characters

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

Day **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	7	6	7	6	5	5	6	6	3	2	8	3	2	4	3	4	3	4	10	7	4	5	5	2	4.9	9.6
2-May-05	2	3	3	4	5	6	6	6	5	5	6	4	4	3	5	4	3	8	7	7	8	9	13	8	5.7	13.2
3-May-05	10	5	10	18	8	12	12	9	6	5	6	4	5	5	6	22	6	7	7	7	5	13	5	6	8.4	22.4
4-May-05	6	6	5	8	6	10	10	11	5	6	7	4	3	3	4	8	6	6	6	19	16	26	14	11	8.6	26.4
5-May-05	9	8	16	21	17	10	20	12	6	7	4	4	D	6	2	9	2	15	30	37	9	9	7	6	11.6	36.9
6-May-05	6	6	6	6	6	8	6	6	6	6	6	4	6	6	3	4	7	4	2	5	4	3	3	4	5.2	8.1
7-May-05	5	5	4	4	5	4	4	5	4	5	4	4	2	3	4	5	5	7	9	24	13	12	9	7	6.3	23.8
8-May-05	8	8	8	9	8	10	11	10	20	11	5	5	4	6	8	8	12	6	6	6	6	11	8	5	8.4	19.6
9-May-05	4	5	8	7	6	6	13	8	11	7	5	7	6	6	4	4	6	3	2	2	3	3	2	3	5.5	13.0
10-May-05	1	1	2	1	2	3	3	4	3	4	3	3	3	3	6	6	3	5	4	4	4	4	5	3	3.4	6.3
11-May-05	4	3	3	18	5	8	34	5	7	7	7	6	7	10	8	17	10	10	10	7	5	6	7	3	8.7	34.0
12-May-05	3	1	3	3	3	5	7	5	8	7	8	10	8	14	13	15	44	28	10	7	7	5	5	4	9.3	43.8
13-May-05	5	3	0	2	1	1	1	1	1	2	3	2	2	4	3	5	5	5	6	7	4	2	4	4	3.1	6.7
14-May-05	5	4	5	16	17	9	16	9	11	11	13	14	14	16	8	6	7	15	11	22	6	9	11	11	11.0	22.5
15-May-05	13	11	8	8	10	16	20	29	9	13	7	5	7	6	8	9	12	19	16	15	5	12	11	12	11.6	29.0
16-May-05	10	11	10	9	14	12	15	18	20	17	7	9	6	15	D	4	D	2	5	8	13	1	2	4	9.6	20.5
17-May-05	3	4	5	3	2	3	3	1	7	6	5	8	3	7	3	3	5	2	1	1	1	1	1	1	3.3	7.6
18-May-05	1	1	0	1	1	2	4	1	6	6	6	6	7	6	5	7	4	6	4	5	4	3	5	3	3.9	7.3
19-May-05	0	3	4	3	2	2	3	4	5	8	7	6	46	46	20	16	25	11	7	3	3	10	1	4	9.9	46.0
20-May-05	1	2	4	2	1	3	3	4	D	D	D	D	5	2	2	4	4	1	3	4	5	6	3	4	3.0	5.8
21-May-05	2	4	3	3	3	4	3	3	3	2	2	5	13	8	9	10	10	26	19	10	5	12	7	0	7.0	26.0
22-May-05	4	19	7	15	15	7	8	8	6	6	3	15	7	D	11	6	9	2	2	10	5	6	3	3	7.7	18.6
23-May-05	2	3	3	3	3	3	4	4	4	3	3	6	6	5	5	8	5	4	4	2	3	2	1	2	3.7	8.0
24-May-05	2	9	1	4	2	4	2	4	7	6	10	7	9	5	11	5	7	4	11	7	13	4	3	3	5.9	13.0
25-May-05	5	40	40	1	0	4	6	10	6	10	D	6	6	7	6	8	6	5	5	11	7	10	7	9	9.3	40.2
26-May-05	2	2	3	3	2	9	8	7	4	D	5	D	D	8	3	5	7	7	7	11	4	8	43	12	7.7	43.4
27-May-05	10	10	2	5	7	27	25	6	8	7	8	4	8	11	10	5	10	9	6	5	4	7	7	4	8.5	27.2
28-May-05	3	4	8	16	15	29	25	15	9	5	10	9	8	10	12	12	7	7	9	19	5	6	6	6	10.6	28.5
29-May-05	3	4	5	7	7	8	8	8	10	10	12	13	12	15	10	15	12	21	21	16	7	7	6	5	10.1	21.4
30-May-05	3	4	11	8	9	22	11	18	15	20	28	19	15	20	17	15	27	23	29	70	15	14	9	29	18.8	70.2
31-May-05	15	23	23	12	13	17	12	14	17	19	21	8	D	D	D	D	D	D	D	19	43	47	57	55	N	57.1
Hourly Avg	4.9	7.1	7.0	7.3	6.5	8.6	9.9	8.2	7.8	7.8	7.6	6.9	8.0	8.9	7.3	8.3	9.2	9.1	9.0	12.1	7.5	8.9	8.8	7.5		
Hourly Max	14.6	39.6	40.2	20.8	16.8	28.5	34.0	29.0	20.5	19.9	28.1	19.1	46.0	45.6	20.4	22.4	43.8	28.0	30.1	70.2	43.1	46.9	57.1	55.1		

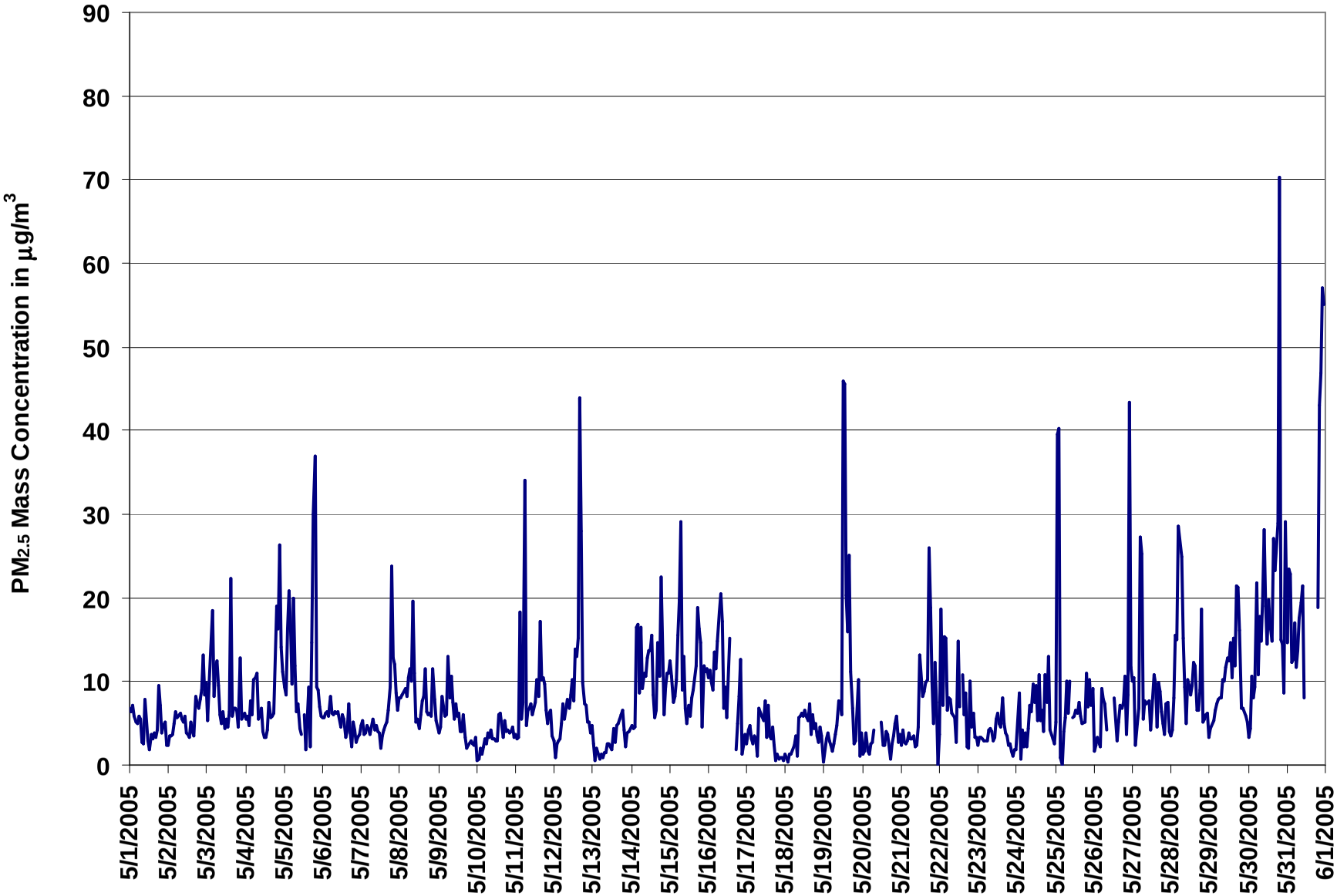
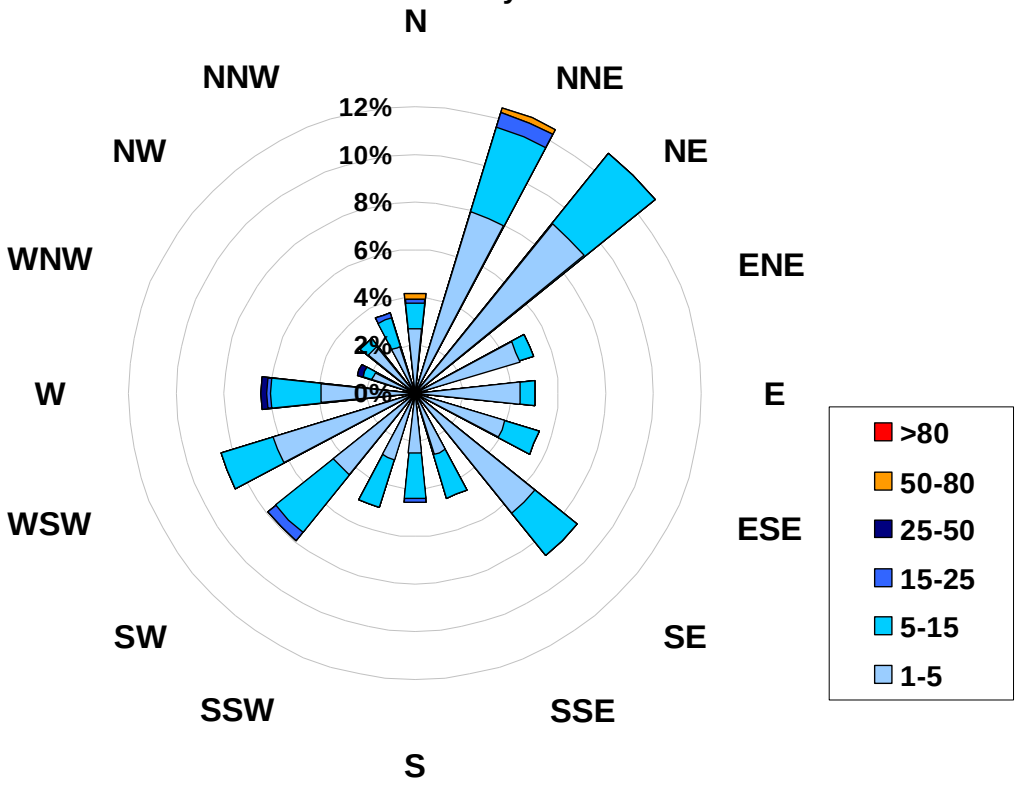


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Maximum Value Monthly Trend

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 May 2005



Calms:	0%

Frequency Distribution of $PM_{2.5}$ in $\mu g/m^3$			
Range			Frequency (hrs)
1.0	<	5	573
5	to	15	139
15	to	25	9
25	to	50	2
50	to	80	2
	>	80	0
Total Non-Zero Values			725

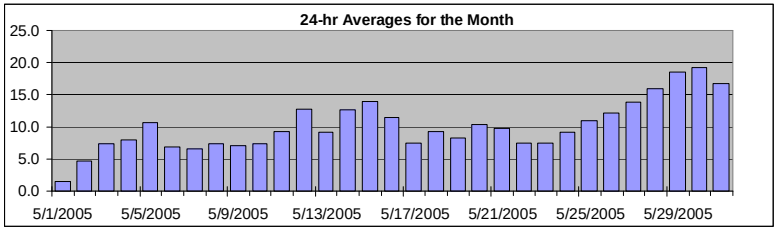
PASZA - Smoky Heights Temperature Monthly Summary

Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Average:	27.6	°C	30-May	15:00 16:00
Maximum 24-hr Value:	19.3	°C	30-May	

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
	25.7	20.8	14.3	9.6	5.7	0.9	-3.9	10.1 °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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-05	-3	-4	-5	-5	-5	-5	-4	-2	0	2	3	5	5	6	7	7	7	7	6	6	3	2	1	1	1.4	7.1
2-May-05	0	-3	-3	-4	-4	-5	-2	0	2	5	7	8	10	11	11	12	12	12	12	10	7	5	4	4	4.7	12.5
3-May-05	4	3	2	3	3	5	6	6	7	8	9	10	12	12	12	10	12	12	12	10	8	5	4	4	7.4	12.0
4-May-05	1	0	-1	-2	-2	-3	-1	2	6	9	12	13	15	16	16	16	17	16	16	16	11	8	6	5	8.0	16.7
5-May-05	6	5	5	5	5	5	8	8	9	10	12	13	15	16	17	17	18	17	15	13	11	9	8	8	10.7	17.5
6-May-05	7	6	6	5	5	4	4	4	4	5	6	6	7	7	8	9	10	10	10	10	10	9	8	7	7.0	10.2
7-May-05	6	5	4	3	3	2	3	3	4	6	8	9	10	10	11	11	11	11	11	10	8	5	3	2	6.6	11.4
8-May-05	2	2	0	0	-2	-1	1	5	7	8	10	12	13	14	14	14	15	15	14	13	11	6	3	2	7.4	15.0
9-May-05	2	2	0	-1	-1	-1	2	4	7	9	11	12	13	13	13	14	13	12	11	10	8	7	5	3	7.1	13.7
10-May-05	2	2	2	1	1	0	1	3	5	7	8	10	11	12	13	13	13	13	13	12	10	9	8	7	7.3	13.2
11-May-05	7	6	5	3	1	1	3	4	7	10	12	13	15	15	16	15	13	14	15	14	12	10	9	7	9.4	15.9
12-May-05	6	6	5	6	5	5	7	9	12	15	17	19	19	20	20	21	20	20	18	16	13	11	9	7	12.8	20.8
13-May-05	6	4	3	1	0	0	1	3	4	7	9	11	13	15	16	17	18	18	16	15	13	11	10	10	9.2	17.8
14-May-05	9	8	7	6	5	6	7	9	10	13	16	18	19	20	19	20	20	19	18	15	13	10	9	8	12.7	20.0
15-May-05	6	6	5	4	4	4	7	8	11	15	17	18	20	21	22	22	22	21	19	19	17	16	16	14	14.0	22.3
16-May-05	13	13	12	9	8	8	9	9	11	11	10	10	10	12	14	14	15	16	16	15	12	10	9	8	11.4	15.9
17-May-05	8	7	7	6	6	6	7	7	8	8	8	8	8	9	9	9	9	9	8	8	8	7	6	6	7.5	8.8
18-May-05	6	5	5	5	5	5	6	7	8	9	10	11	12	13	14	14	14	14	14	12	10	9	8	7	9.4	14.4
19-May-05	6	5	5	5	5	5	5	6	7	9	11	13	15	15	13	14	11	8	9	9	8	7	6	5	8.3	15.1
20-May-05	4	3	4	5	4	3	6	8	11	12	14	15	15	16	16	16	16	16	16	15	12	10	8	6	10.4	16.1
21-May-05	5	5	5	4	5	5	7	8	10	12	14	15	14	14	15	16	15	13	12	11	9	7	8	7	9.8	15.6
22-May-05	5	4	4	4	4	4	5	7	9	9	10	10	12	13	9	8	9	10	10	9	7	7	7	6	7.6	12.8
23-May-05	6	6	6	6	6	6	6	6	7	8	8	8	9	9	10	10	10	9	9	10	8	6	5	5	7.5	10.3
24-May-05	4	5	5	5	4	5	6	7	8	10	11	12	13	13	14	14	14	14	14	13	11	8	6	4	9.2	14.3
25-May-05	4	3	2	1	2	3	5	8	11	13	15	16	16	17	17	18	17	17	17	17	14	12	9	7	10.9	18.0
26-May-05	6	4	3	3	3	5	9	10	12	14	15	17	18	19	19	20	20	19	19	17	15	12	9	7	12.2	19.6
27-May-05	5	4	5	4	5	8	10	11	13	16	18	19	20	20	21	21	21	20	20	18	16	14	13	12	13.9	21.0
28-May-05	11	10	8	8	7	8	9	12	14	15	17	19	21	22	22	23	23	23	23	22	19	17	16	15	15.9	23.2
29-May-05	14	14	13	12	11	11	12	14	16	17	19	21	23	24	25	26	26	25	24	22	21	19	18	17	18.5	25.8
30-May-05	16	14	12	11	10	10	12	13	16	19	23	25	26	27	27	28	27	27	26	23	20	19	18	17	19.3	27.6
31-May-05	16	16	15	13	12	12	12	13	14	16	18	21	22	23	23	23	23	21	20	18	14	13	13	12	16.8	23.2
Hourly Avg	6.1	5.4	4.7	4.1	3.6	4.0	5.4	6.9	8.8	10.5	12.1	13.4	14.5	15.2	15.5	15.9	15.8	15.4	14.9	13.8	11.6	9.7	8.5	7.4		
Hourly Max	16.2	16.2	14.8	12.6	12.1	12.1	12.2	13.7	16.1	19.1	22.5	24.9	25.9	26.9	27.3	27.6	27.5	26.7	26.3	22.6	20.8	19.1	18.5	17.1		

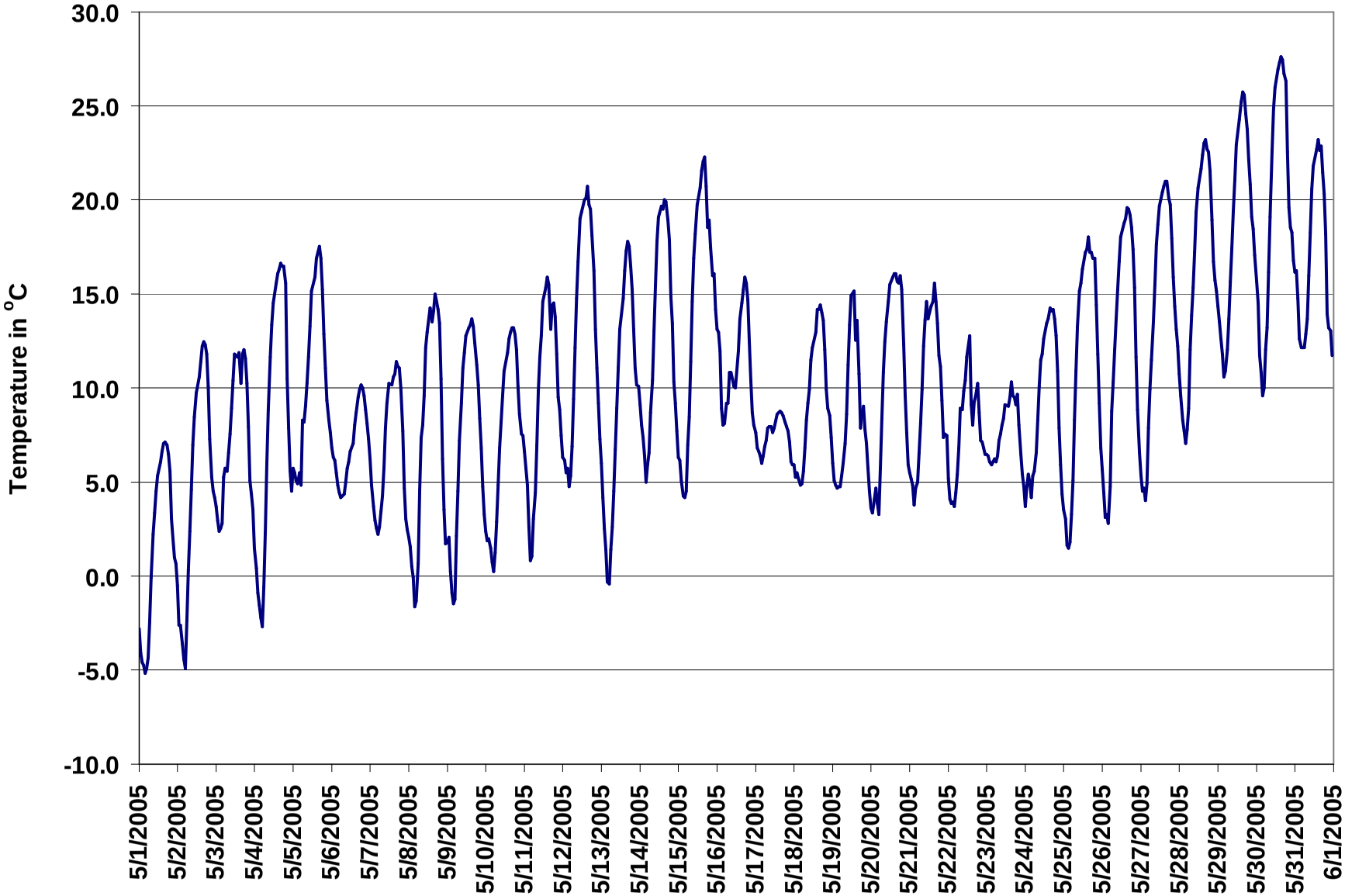


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend

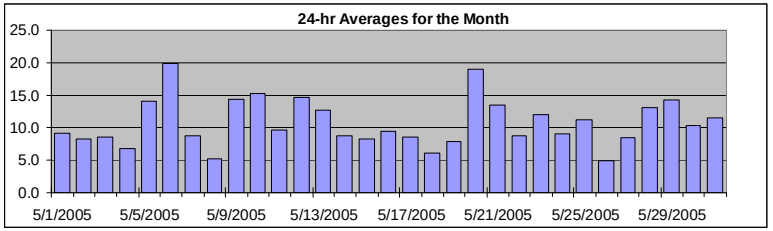
PASZA - Smoky Heights Scalar Wind Speed Monthly Summary

Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Average:	31.2	km/hr	20-May	9:00 10:00
Maximum 24-hr Value:	19.8	km/hr	6-May	

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
	26.2	21.3	14.5	9.7	6.3	2.9	1.9	10.7 km/hr

Status Flag Characters

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

Day — **Mountain Standard Time**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hr Scalar Average	Daily Max
1-May-05	9	9	7	9	6	7	7	8	7	7	10	11	11	13	11	13	13	11	11	8	7	8	9	9	9.2	13.3
2-May-05	8	6	6	6	5	4	6	6	6	7	11	12	12	9	11	7	9	8	13	12	11	9	9	7	8.3	13.1
3-May-05	7	6	5	4	4	15	6	8	12	10	10	8	8	7	9	10	6	13	11	12	9	10	11	8	8.7	15.0
4-May-05	5	7	6	6	6	8	7	6	9	7	8	12	11	11	10	11	10	8	4	4	3	2	2	2	6.9	12.1
5-May-05	2	2	3	3	8	12	21	11	14	16	16	16	18	19	20	21	23	18	18	19	14	13	14	15	14.0	22.7
6-May-05	15	16	20	22	24	24	23	21	23	19	21	24	17	11	19	23	19	19	20	20	20	18	18	19	19.8	24.2
7-May-05	15	12	11	13	13	11	10	11	11	9	9	10	8	10	8	6	4	4	3	5	5	5	9	8	8.7	14.8
8-May-05	4	3	2	1	1	2	3	2	3	6	7	7	9	7	9	9	8	10	8	5	6	4	3	5	5.2	10.0
9-May-05	9	8	2	3	2	4	5	8	14	17	17	20	20	20	21	22	24	25	24	20	19	19	11	11	14.3	24.7
10-May-05	11	13	16	16	14	8	10	11	15	16	18	19	16	17	18	21	20	20	19	17	11	10	12	16	15.2	20.6
11-May-05	16	13	9	2	3	2	4	6	6	6	5	8	8	12	16	24	19	11	15	10	6	8	10	11	9.6	23.7
12-May-05	14	17	18	19	15	18	12	13	13	11	9	9	6	11	10	9	13	18	21	18	20	19	20	19	14.6	20.7
13-May-05	15	21	17	10	7	11	11	13	12	12	12	12	12	12	12	14	12	15	14	15	13	10	9	15	12.8	20.5
14-May-05	15	9	11	4	2	1	2	8	6	5	4	5	5	13	20	15	13	14	19	14	6	6	5	6	8.7	19.7
15-May-05	6	6	5	7	5	8	7	6	7	6	7	7	8	8	10	10	6	12	21	12	8	9	9	6	8.3	21.3
16-May-05	8	7	6	3	4	4	2	10	13	12	18	15	17	18	16	14	11	10	8	4	9	12	6	2	9.4	18.2
17-May-05	3	9	8	5	4	5	6	12	10	5	4	6	11	12	13	12	12	12	14	11	11	8	8	5	8.7	13.5
18-May-05	7	4	3	4	4	2	3	5	5	4	5	6	6	5	5	7	7	10	11	9	7	8	10	12	6.1	11.6
19-May-05	12	11	9	8	8	11	7	3	7	10	9	10	7	6	6	10	12	6	6	5	5	8	5	7	7.9	12.1
20-May-05	9	10	12	16	14	9	11	17	20	31	30	29	29	27	26	24	24	22	22	20	14	13	12	15	18.9	31.2
21-May-05	17	16	17	15	17	17	23	27	25	21	17	8	4	5	8	12	19	15	12	3	7	6	9	5	13.5	26.6
22-May-05	3	4	4	6	8	9	9	10	8	11	13	9	7	7	23	17	10	7	3	8	14	7	5	7	8.7	22.6
23-May-05	11	10	7	7	11	10	7	8	9	13	13	15	14	15	13	10	8	16	20	19	13	14	13	10	11.9	19.8
24-May-05	3	6	5	3	3	4	5	4	4	6	11	10	12	19	20	21	18	16	16	8	8	7	4	4	9.0	20.9
25-May-05	3	4	7	8	10	11	10	7	7	7	18	20	22	20	19	18	12	13	12	10	10	8	5	7	11.2	21.6
26-May-05	5	4	4	4	3	3	3	3	4	4	5	6	5	5	7	6	6	8	8	9	7	4	2	3	4.9	8.8
27-May-05	4	3	2	2	3	1	3	3	4	10	13	17	16	14	14	15	14	16	12	9	7	7	7	8	8.5	16.8
28-May-05	7	6	7	7	6	6	5	6	11	15	17	19	21	19	17	15	16	18	15	15	14	11	16	24	13.1	23.7
29-May-05	23	19	12	13	7	10	11	12	14	17	18	16	14	15	16	16	18	14	10	11	10	11	15	15	14.1	23.4
30-May-05	12	7	7	6	6	4	5	8	10	9	7	9	9	10	10	8	6	7	7	19	27	24	15	18	10.4	27.0
31-May-05	22	16	12	9	9	4	5	3	4	4	7	5	8	11	13	14	17	15	10	20	28	25	9	7	11.5	28.0
1-hr Average	9.6	9.2	8.4	7.8	7.5	7.9	8.1	8.8	10.0	10.8	11.9	12.2	11.9	12.6	13.8	14.0	13.3	13.3	13.1	12.0	11.3	10.4	9.4	9.9		
Hourly Max	23.4	20.5	20.2	22.2	24.1	24.2	23.4	26.6	25.1	31.2	29.7	29.1	28.8	27.4	25.6	24.0	24.2	24.7	24.0	20.3	28.0	24.9	20.2	23.7		

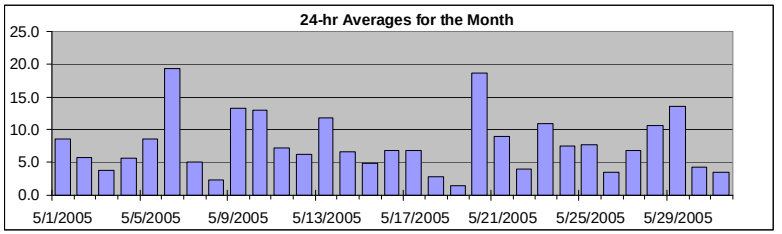
PASZA - Smoky Heights Vector Wind Speed Monthly Summary

Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: May 1, 2005 to June 1, 2005



Summary

Maximum 1-hr Average:	30.9	km/hr	20-May	9:00 10:00
Maximum 24-hr Value:	19.4	km/hr	6-May	

Calm Time:	3 hrs	**0%** calms			Operational Time:			741 hrs		
Calibration Time:	0 hrs				AMD Operational Uptime:			100.0%		
Percentile	99	95	75	50	25	5	1			AverageV
	25.9	20.5	14.1	8.9	5.6	2.2	1.2			0.9 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**

Hour Start / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hr Vector Average	Daily Max
1-May-05	9	9	7	9	6	7	7	8	6	6	9	10	10	12	9	11	12	10	10	8	7	8	9	9	8.5	12.1
2-May-05	8	6	6	6	5	4	6	6	5	7	10	10	9	8	8	6	7	7	13	12	11	9	8	7	5.8	12.9
3-May-05	6	6	4	3	3	15	5	7	11	10	9	7	6	6	8	7	1	11	10	12	9	9	11	7	3.9	14.6
4-May-05	4	6	5	6	6	7	7	6	8	7	7	12	11	9	8	10	9	7	3	3	3	1	2	1	5.7	11.8
5-May-05	1	1	2	3	8	10	20	10	14	16	16	15	17	19	19	21	22	18	14	19	14	13	14	15	8.6	22.1
6-May-05	15	16	20	22	24	24	23	21	22	19	21	24	16	11	18	23	18	19	20	20	20	18	18	19	19.4	24.1
7-May-05	15	11	11	13	13	11	10	11	11	9	9	9	7	9	7	3	3	4	2	5	5	5	8	8	5.0	14.7
8-May-05	3	calm	2	1	1	2	3	1	3	6	6	6	7	4	8	7	6	9	8	5	6	1	3	5	2.4	9.1
9-May-05	9	5	2	2	1	4	2	7	13	17	16	20	20	19	20	22	23	24	24	20	19	19	11	11	13.3	24.5
10-May-05	11	13	16	16	14	8	10	11	15	16	17	17	15	16	17	20	19	19	19	17	11	10	11	16	13.0	19.8
11-May-05	16	13	9	2	2	2	3	5	6	5	5	8	7	11	15	23	19	9	15	10	6	8	10	11	7.2	22.8
12-May-05	14	17	18	19	15	18	12	12	13	11	8	4	4	10	7	8	12	17	20	18	20	18	20	19	6.2	20.5
13-May-05	15	20	16	10	7	10	11	13	11	12	11	11	11	12	11	13	11	15	13	15	13	10	9	14	11.8	20.5
14-May-05	15	9	11	4	calm	1	2	8	6	4	3	3	4	12	19	15	13	13	19	14	6	6	4	6	6.7	19.3
15-May-05	6	6	5	7	5	8	7	6	6	5	7	7	6	7	9	8	5	10	18	12	8	3	7	6	5.0	18.2
16-May-05	7	6	6	3	3	3	calm	9	11	11	18	15	16	17	15	14	10	9	8	3	9	12	5	2	6.8	17.9
17-May-05	3	9	7	4	4	5	5	11	7	5	3	6	11	12	13	12	12	12	13	11	11	8	8	5	6.8	13.3
18-May-05	7	3	3	4	3	2	2	4	4	1	4	3	3	1	3	6	7	10	11	9	7	8	10	12	2.8	11.5
19-May-05	12	11	8	8	8	11	6	2	7	10	8	8	4	4	4	9	8	2	4	5	3	6	4	6	1.5	11.9
20-May-05	9	10	11	16	13	8	10	16	20	31	29	28	28	27	25	23	23	22	21	20	14	13	12	15	18.6	30.9
21-May-05	16	16	17	15	17	16	22	27	25	20	17	6	3	4	8	11	19	8	11	2	7	4	9	5	9.0	26.6
22-May-05	3	4	4	5	8	9	9	10	7	11	11	9	7	7	22	16	3	3	2	8	13	5	5	7	4.1	21.9
23-May-05	11	9	6	7	11	10	7	7	9	13	13	15	14	15	13	8	8	15	20	19	13	14	13	8	10.9	19.8
24-May-05	1	6	5	3	2	3	5	4	4	5	11	10	11	18	19	20	17	15	15	8	7	5	4	4	7.6	20.2
25-May-05	2	4	7	8	10	11	10	7	5	5	18	20	21	19	18	16	11	13	12	9	10	8	5	7	7.7	20.6
26-May-05	5	3	3	3	3	3	3	2	3	4	4	4	3	1	6	5	5	7	8	9	7	4	2	3	3.5	8.7
27-May-05	4	3	2	1	3	1	3	2	4	9	12	16	15	14	13	14	13	16	12	9	7	6	6	8	6.7	16.2
28-May-05	7	6	7	7	6	6	5	5	10	14	16	18	20	19	17	15	16	17	15	15	14	11	16	24	10.6	23.6
29-May-05	23	19	12	13	6	10	11	11	14	17	18	16	14	14	15	15	18	14	10	11	10	11	14	15	13.7	23.4
30-May-05	11	6	6	6	5	3	5	7	10	9	3	8	9	9	9	7	5	7	7	17	27	24	14	16	4.4	26.9
31-May-05	17	13	12	9	9	3	5	3	3	4	6	5	7	10	13	14	16	15	10	15	27	25	8	7	3.6	27.3
1-hr Vector	0.9	2.1	1.4	1.5	2.2	1.8	1.3	0.8	1.3	2.3	1.4	1.2	0.9	0.6	0.1	1.3	1.0	2.7	3.0	2.1	2.7	3.4	1.5	1.5		
Hourly Max	23.4	20.5	20.1	22.1	24.0	24.1	23.3	26.6	25.0	30.9	29.4	28.2	28.2	26.5	25.0	23.1	23.5	24.5	23.9	20.2	27.3	24.7	20.1	23.6		

PASZA - Smoky Heights Wind Direction Monthly Summary

HOURLY AVERAGE TABLE

Wind Direction (WD)

Station: Smoky Heights
Station Owner: PASZA

Monitoring Dates: May 1, 2005 to June 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		
	348.7	321.9	252.7	144.4	53.0	23.3	6.6	18 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 / Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	WD Sector
1-May-05	40	38	26	29	20	19	22	33	51	56	54	44	66	55	74	71	64	72	87	72	58	87	99	100	58	ENE
2-May-05	85	27	41	22	22	20	26	31	52	86	122	126	131	159	135	166	152	101	50	55	51	39	46	57	80	E
3-May-05	36	22	7	305	262	252	284	156	176	198	193	175	207	123	86	359	174	285	249	258	256	265	219	197	229	SW
4-May-05	185	227	238	236	243	208	212	211	215	170	171	182	188	220	216	259	242	235	223	136	102	85	29	231	212	SSW
5-May-05	227	238	213	245	219	254	279	264	223	225	231	243	242	254	250	252	247	270	336	23	17	1	8	19	270	W
6-May-05	24	31	36	36	36	31	26	31	32	45	38	42	65	74	61	56	40	28	31	32	34	34	42	41	39	NE
7-May-05	39	34	24	26	26	28	23	27	31	42	38	44	67	69	101	132	141	133	194	179	213	253	255	262	41	NE
8-May-05	218	131	227	268	254	228	201	164	124	149	160	136	186	216	106	147	36	75	66	76	76	72	302	283	131	SE
9-May-05	287	308	5	41	315	307	31	36	36	37	30	42	44	32	32	34	32	33	34	34	32	34	43	54	32	NNE
10-May-05	44	54	55	53	52	44	47	58	87	103	117	109	101	113	123	138	128	135	128	116	109	91	113	133	100	E
11-May-05	142	140	145	146	280	271	228	140	144	131	171	189	200	184	220	246	254	246	219	214	187	197	202	249	204	SSW
12-May-05	262	263	266	262	266	266	259	243	238	229	241	296	322	301	327	329	5	45	40	44	44	36	30	30	319	NW
13-May-05	47	56	50	47	30	34	47	52	51	50	56	63	74	79	87	80	80	57	65	88	85	74	86	140	66	ENE
14-May-05	140	137	143	158	234	194	223	162	166	119	140	146	207	232	253	236	216	172	175	205	199	224	228	257	193	SSW
15-May-05	232	233	255	217	218	205	205	189	191	181	183	179	138	126	121	129	177	151	152	108	89	18	263	35	165	SSE
16-May-05	19	7	14	24	40	67	133	216	266	218	243	255	245	255	261	270	256	272	255	269	291	293	315	290	266	W
17-May-05	300	276	267	212	251	230	236	270	285	120	139	328	312	314	314	318	321	312	326	322	323	296	262	267	298	WNW
18-May-05	257	283	349	19	311	304	81	331	252	69	165	185	264	219	77	59	53	56	44	51	46	37	40	33	35	NE
19-May-05	28	27	9	3	13	48	58	189	230	243	270	232	266	30	177	36	217	354	58	101	194	286	188	247	337	NNW
20-May-05	266	263	252	248	236	218	219	225	242	248	250	249	255	255	248	258	252	245	247	247	246	262	256	265	249	WSW
21-May-05	271	258	268	273	265	256	256	258	266	266	261	284	137	191	224	233	254	21	30	25	8	44	99	90	266	W
22-May-05	41	29	345	30	31	28	31	37	52	46	73	46	30	43	238	263	45	176	297	331	327	354	313	267	7	N
23-May-05	266	306	275	262	283	285	249	266	307	308	322	321	320	312	295	310	339	268	269	269	263	267	267	268	287	WNW
24-May-05	289	348	7	12	324	16	62	47	64	67	13	357	343	330	336	333	340	332	329	334	45	92	31	16	352	N
25-May-05	327	295	277	267	261	252	252	237	200	100	330	316	314	319	314	321	346	322	315	319	60	54	34	28	314	NW
26-May-05	24	307	302	349	9	9	43	102	143	132	124	119	52	41	68	63	53	77	65	73	68	69	41	320	60	ENE
27-May-05	308	287	313	337	42	40	39	34	101	143	144	125	122	105	107	88	84	79	81	74	59	50	76	83	94	E
28-May-05	47	24	30	28	30	30	32	105	151	150	153	140	131	118	119	119	124	120	123	104	87	88	137	145	117	ESE
29-May-05	150	155	151	153	148	146	146	140	133	146	130	126	125	118	109	121	134	118	115	105	114	125	134	144	133	SE
30-May-05	140	157	202	197	232	237	200	223	244	231	32	4	2	7	2	360	335	327	343	223	243	265	276	173	255	WSW
31-May-05	287	317	174	167	190	141	169	181	83	73	54	55	64	49	30	43	35	36	22	273	272	303	357	26	346	NNW
Hourly Avg	0	349	341	337	314	307	309	235	206	152	141	102	109	32	125	342	17	39	41	44	24	4	37	92		

PASZA - Smoky Heights Standard Deviation of Wind Direction Monthly Summary

Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: May 1, 2005 to June 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
	54.3	41.9	19.9	11.3	6.4	3.7	2.0

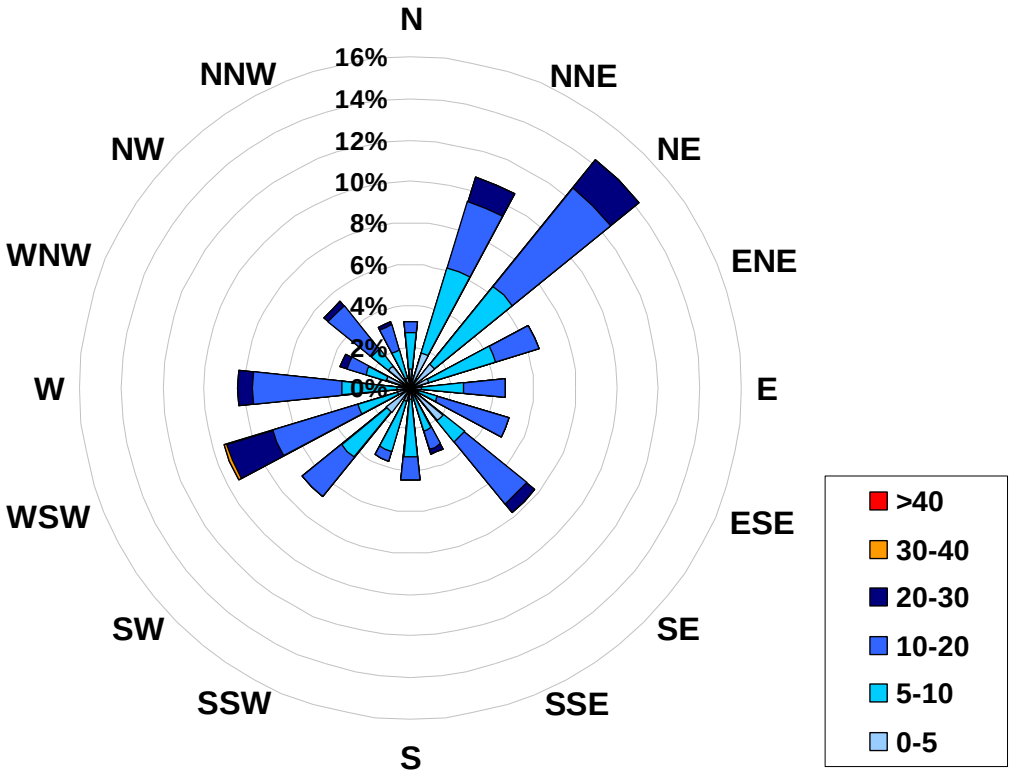
Status Flag Characters

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	Daily Maximum
1-May-05	9	6	5	4	4	4	4	6	23	33	25	19	30	21	41	25	20	21	20	10	3	4	5	8	40.5
2-May-05	6	9	16	4	6	16	6	9	27	23	18	28	53	57	22	54	48	24	9	5	3	4	9	10	56.7
3-May-05	10	8	17	26	48	17	33	20	11	14	16	34	46	32	22	29	47	16	9	5	6	9	9	7	48.1
4-May-05	9	5	7	4	7	8	6	14	15	14	23	15	20	50	42	26	35	30	42	20	8	32	17	37	50.1
5-May-05	31	39	36	16	4	23	15	14	6	9	10	15	15	12	18	13	12	12	12	6	5	5	5	4	39.5
6-May-05	3	4	4	4	4	4	3	4	4	5	5	4	7	7	12	8	13	4	4	4	3	4	5	4	12.7
7-May-05	4	4	3	3	5	4	4	4	6	11	19	16	34	25	18	53	35	35	27	7	10	9	5	11	53.3
8-May-05	34	36	15	19	20	9	8	28	27	16	24	28	37	50	29	41	54	24	22	10	5	23	17	4	53.7
9-May-05	1	31	20	27	20	11	34	9	8	10	11	11	9	10	13	10	9	7	5	6	4	4	4	6	33.7
10-May-05	5	5	4	4	5	5	5	10	11	14	14	16	18	18	17	15	13	13	10	7	5	6	7	5	18.4
11-May-05	6	6	7	33	37	14	13	15	17	24	29	21	23	16	15	10	8	14	8	6	5	5	4	8	37.1
12-May-05	2	2	2	1	2	2	6	5	7	12	30	43	56	19	26	32	13	11	7	6	5	5	5	4	55.9
13-May-05	5	4	4	5	5	4	8	8	13	13	13	18	20	27	22	18	17	10	7	6	5	5	9	6	27.3
14-May-05	6	8	5	12	55	43	22	12	17	37	42	25	41	22	8	13	14	10	8	9	27	10	14	5	54.5
15-May-05	7	9	12	7	12	10	10	9	22	21	17	25	35	39	26	26	35	15	19	9	6	22	27	14	38.5
16-May-05	8	6	5	9	34	15	41	13	19	9	7	4	6	9	11	15	18	19	25	13	15	3	21	42	42.4
17-May-05	28	6	32	17	13	8	9	7	15	27	24	22	6	7	9	7	9	7	10	7	9	8	4	6	31.9
18-May-05	7	23	18	15	22	19	47	19	47	50	42	42	49	45	63	31	18	13	9	6	5	5	8	5	63.0
19-May-05	4	7	10	9	9	7	16	35	15	17	18	25	56	38	61	14	51	30	26	12	31	33	18	14	60.7
20-May-05	7	8	6	6	26	33	5	31	9	6	7	10	10	13	12	12	11	8	8	6	3	2	3	2	32.9
21-May-05	2	2	2	4	2	3	3	3	5	11	11	31	40	22	9	16	12	51	15	50	7	13	14	35	51.4
22-May-05	19	27	8	8	4	5	5	8	14	10	21	8	13	26	31	7	24	26	27	19	8	39	17	6	39.1
23-May-05	4	5	10	6	7	5	6	7	7	7	9	7	9	9	10	16	13	24	4	4	3	2	3	33	32.8
24-May-05	44	12	8	15	23	11	11	19	21	24	15	14	17	17	11	13	9	15	12	10	8	20	6	8	43.6
25-May-05	19	17	5	6	3	3	5	12	19	28	14	15	16	19	15	17	8	6	5	10	9	6	6	4	28.4
26-May-05	5	19	16	12	7	6	10	30	20	30	35	39	61	55	54	54	37	20	12	8	4	8	15	5	61.5
27-May-05	9	9	14	22	12	18	14	36	19	14	15	15	13	16	16	20	21	11	9	8	7	11	13	7	36.2
28-May-05	6	9	7	6	10	7	8	15	12	10	12	11	12	12	12	13	12	8	7	8	5	6	9	5	14.7
29-May-05	4	5	8	5	34	8	9	9	10	13	12	12	11	17	16	11	10	9	6	6	7	9	9	6	33.9
30-May-05	7	15	23	8	12	9	12	10	9	12	40	22	16	27	26	31	49	16	10	14	4	5	9	27	49.0
31-May-05	22	41	8	6	28	44	8	30	16	16	14	20	21	15	13	15	11	6	6	27	11	5	17	16	44.4
Hourly Max	44	41	36	33	55	44	47	36	47	50	42	43	61	57	63	54	54	51	42	50	31	39	27	42	

1-hr Average Wind Rose (in km/hr) Located at the Smoky Heights Site for May 2005



Calms:	0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.0	<	5	115
5	to	10	274
10	to	20	299
20	to	30	55
30	to	40	1
	>	40	0
Total Non-Zero Values			744

PEACE AIRSHED ZONE ASSOCIATION

PASZA Monthly Passive Data Summary

Table 1. PASZA Passive Stations for May 2005

Station Number	Station Name	PASZA SO2 ppb	PASZA O3 ppb	PASZA NO2 ppb	Site Legal
Duplicates					
10a	Silver Valley	**0.2**	**36.4**	**0.9**	
10b	Silver Valley	**0.3**	**35.4**	**0.9**	
19a	Bay Tree	**0.3**	**35.8**	**1.0**	
19b	Bay Tree	**0.3**	**43.8**	**1.0**	
21a	Boone Creek	**0.2**	**31.9**	**1.2**	
21b	Boone Creek	**0.3**	**32.8**	**1.1**	
49a	Grande Prairie HP	**0.3**	**39.7**	**4.6**	
49b	Grande Prairie HP	**0.3**	**39.1**	**4.5**	
1	Silver Valley	**0.4**	**34.3**	**1.3**	08-27-081-11 W6M
2	Bay Tree	**0.2**	**34.9**	**0.5**	13-16-078-13 W6M
3	Forth Creek	**0.3**	**44.0**	**0.9**	04-13-082-07 W6M
4	Gordondale	**0.2**	**42.8**	**1.3**	04-34-078-10 W6M
5	Boone Creek	**0.2**	**33.6**	**0.6**	01-23-076-11 W6M
7	Steeprock Creek	**0.2**	**41.3**	**0.6**	09-35-072-13 W6M
9	Spirit River	**0.2**	**36.2**	**1.9**	08-12-079-07 W6M
10	Woking	**0.3**	**35.9**	**0.9**	01-13-076-07 W6M
11	Webber Creek	**0.3**	**34.3**	**1.2**	09-36-074-09 W6M
12	Hythe	**0.3**	**36.6**	**missing**	14-36-072-11 W6M
14	Sylvester	**0.1**	**32.9**	**1.0**	08-06-069-12 W6M
16	Beaverlodge	**0.2**	**45.5**	**1.3**	15-36-071-10 W6M
17	Poplar	**0.2**	**35.4**	**1.7**	13-06-073-08 W6M

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

		PASZA			
Station Number	**Station Name**	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
18	Saddle Hills	**0.3**	**38.1**	**1.2**	04-25-074-07 W6M
19	Wanham	**0.3**	**39.8**	**1.0**	16-22-077-03 W6M
20	Shaftesbury	**0.1**	**33.5**	**1.0**	04-03-082-23 W5M
21	Eaglesham	**0.3**	**32.4**	**1.2**	16-21-079-25 W5M
23	Bear Lake	**0.3**	**32.7**	**2.4**	15-31-072-06 W6M
24	Wembley	**0.2**	**32.7**	**1.9**	12-31-070-08 W6M
25	Pinto Creek	**0.2**	**34.7**	**0.8**	04-24-069-11 W6M
26	Flyingshot	**0.2**	**34.6**	**1.7**	15-36-070-07 W6M
27	Grande Prairie I	**0.2**	**37.0**	**4.5**	08-15-071-06 W6M
28	Clairmont Lake	**0.2**	**38.3**	**1.2**	09-06-073-04 W6M
29	Smoky Heights	**0.3**	**41.9**	**1.2**	04-06-075-02 W6M
30	Fitzsimmons	**0.2**	**36.4**	**0.9**	15-36-072-03 W6M
32	Gold Creek	**0.7**	**31.4**	**0.9**	06-33-067-05 W6M
33	Wapiti	**0.2**	**38.7**	**1.0**	02-25-071-03 W6M
34	Puskwaskau	**0.2**	**31.3**	**0.5**	15-35-074-25 W5M
35	Jean Cote	**0.3**	**33.8**	**2.1**	12-35-079-21 W5M
36	Guy	**0.2**	**36.8**	**1.4**	03-04-076-22 W5M
37	Crooked Creek	**0.3**	**36.4**	**1.4**	16-01-071-26 W5M
38	Karr Creek	**0.2**	**28.3**	**0.6**	10-16-065-02 W6M
39	Clouston Creek	**0.2**	**33.5**	**0.8**	12-01-073-22 W5M
40	McLennan	**0.2**	**32.8**	**1.5**	03-29-077-19 W5M
41	Valleyview	**0.4**	**36.2**	**1.0**	09-30-069-22 W5M
42	Sunset House	**0.3**	**36.9**	**0.6**	05-32-070-19 W5M
43	High Prairie	**0.3**	**36.1**	**2.1**	16-13-074-17 W5M
44	Peavine	**0.2**	**36.8**	**0.4**	03-05-079-15 W5M
45	Gift Lake	**0.1**	**31.7**	**0.8**	10-07-079-12 W5M
46	Little Smoky	**0.3**	**31.8**	**0.7**	12-01-065-21 W5M
47	Kinuso	**0.2**	**34.1**	**0.7**	12-10-073-10 W5M
48	Deer Mountain	**0.2**	**33.6**	**0.6**	15-22-068-09 W5M
49	Grande Prairie HP	**0.3**	**39.4**	**4.6**	17-26-071-06 W6M

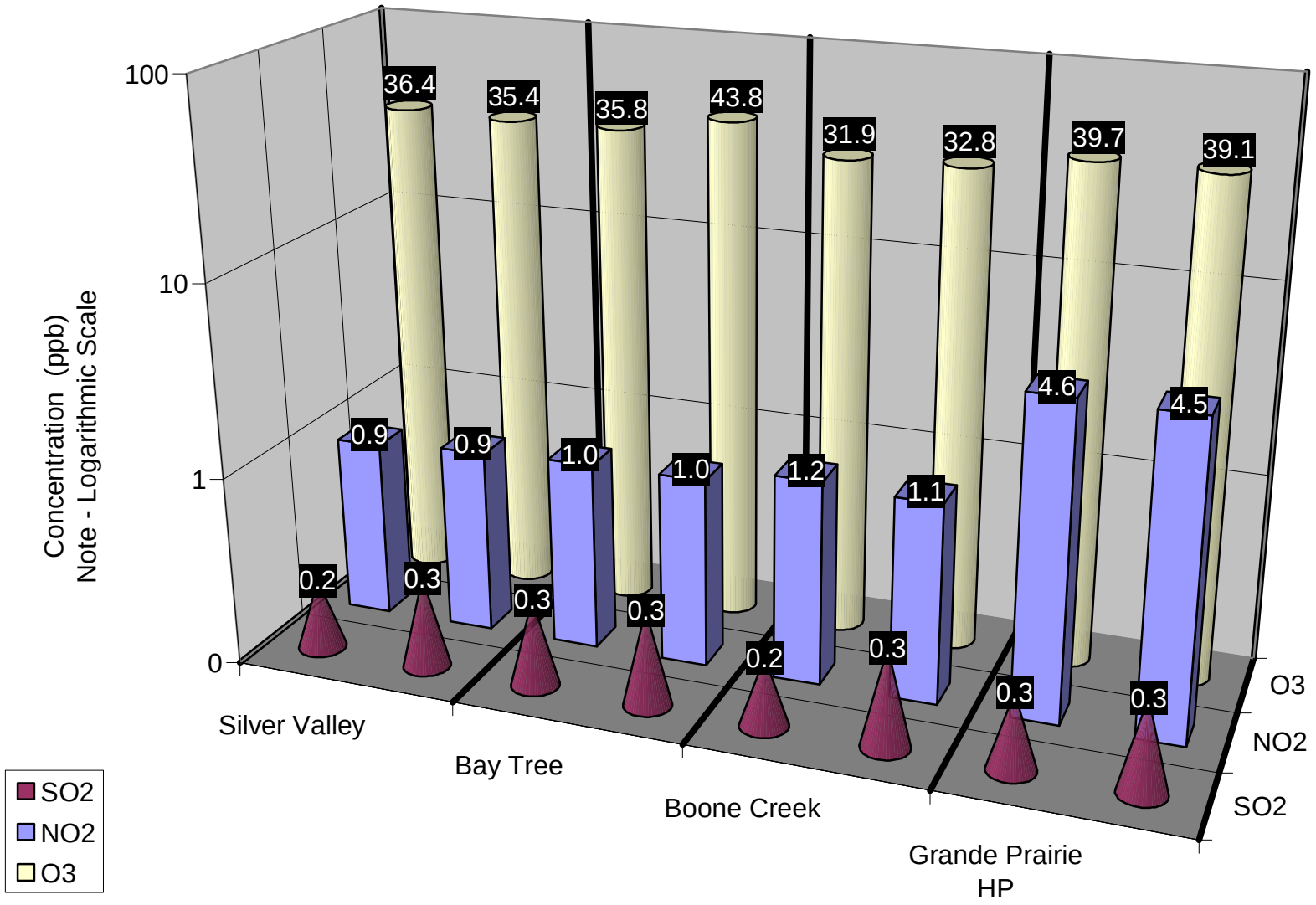


Figure 34. Duplicate Summary Chart

Table 2. Passive Summary Results for May 2005

Stats	Sulphur Dioxide SO_2	Ozone O_3	Nitrogen Dioxide NO_2
	ppb	ppb	ppb
	Passive Summary for May 2005 (PASZA Zone)		
Mean	**0.3**	**35.8**	**1.3**
Standard Deviation	**0.1**	**3.6**	**0.9**
Minimum	**0.1**	**28.3**	**0.4**
	Gift Lake (#45)	**Karr Creek (#38)**	**Peavine (#44)**
Maximum	**0.7**	**45.5**	**4.6**
	Gold Creek (#32)	**Beaverlodge (#16)**	**Grande Prairie HP (#49)**

Comparison between Continuous and Passive monitoring at Beaverlodge (passive #16 Beaverlodge)

	SO_2	O_3	NO_2
AENV Beaverlodge station	**na**	**na**	**na**
PASZA Beaverlodge passive	**0.2**	**45.5**	**1.3**

Comparison between Continuous and Passive monitoring at Henry Pirker (passive #49 Grande Prairie HP)

	SO_2	O_3	NO_2
PASZA Henry Pirker station	**0.5**	**32.7**	**5.6**
PASZA Grande Prairie passive	**0.3**	**39.4**	**4.6**

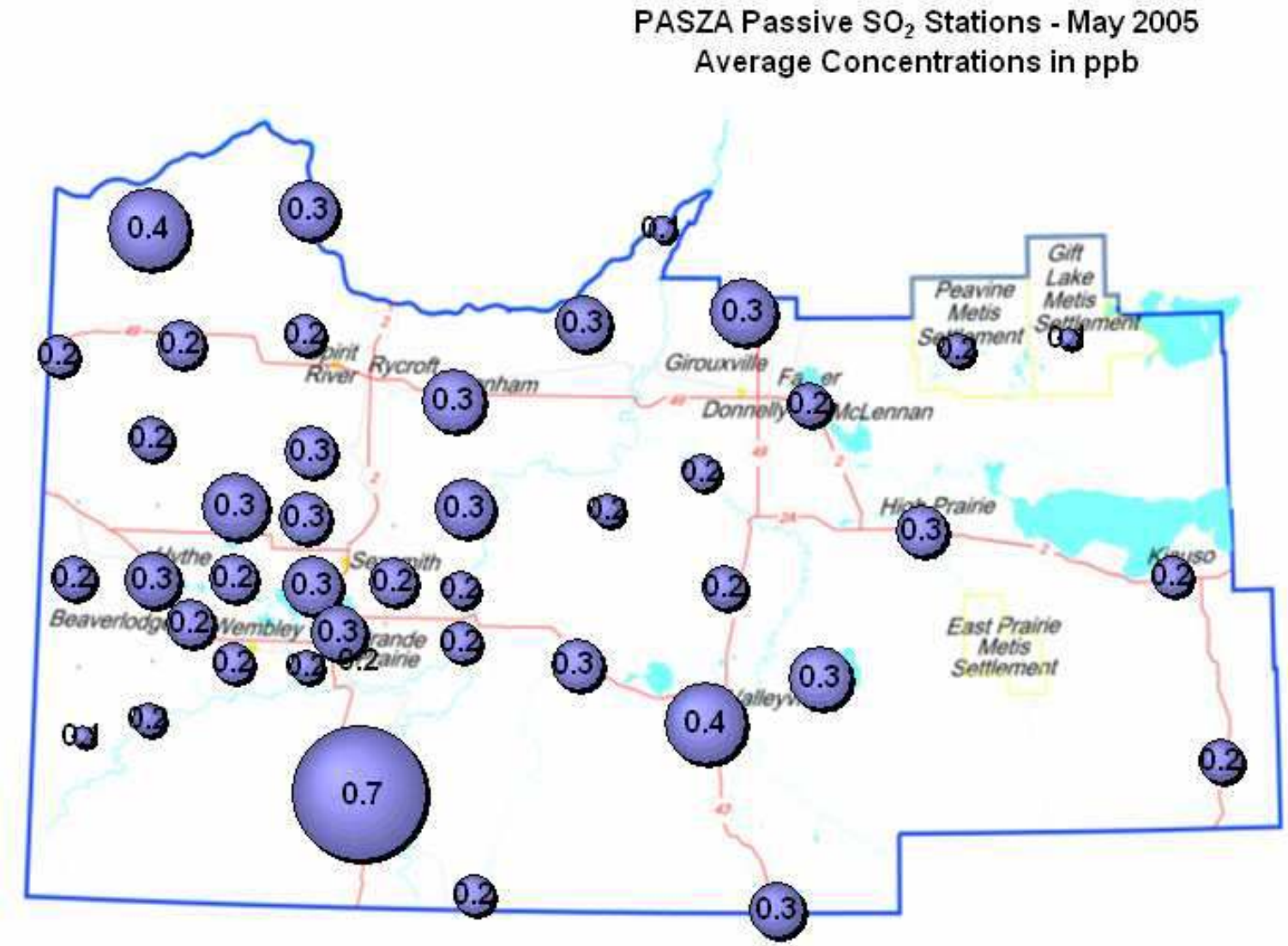


Figure 34. SO_2 Bubble Chart

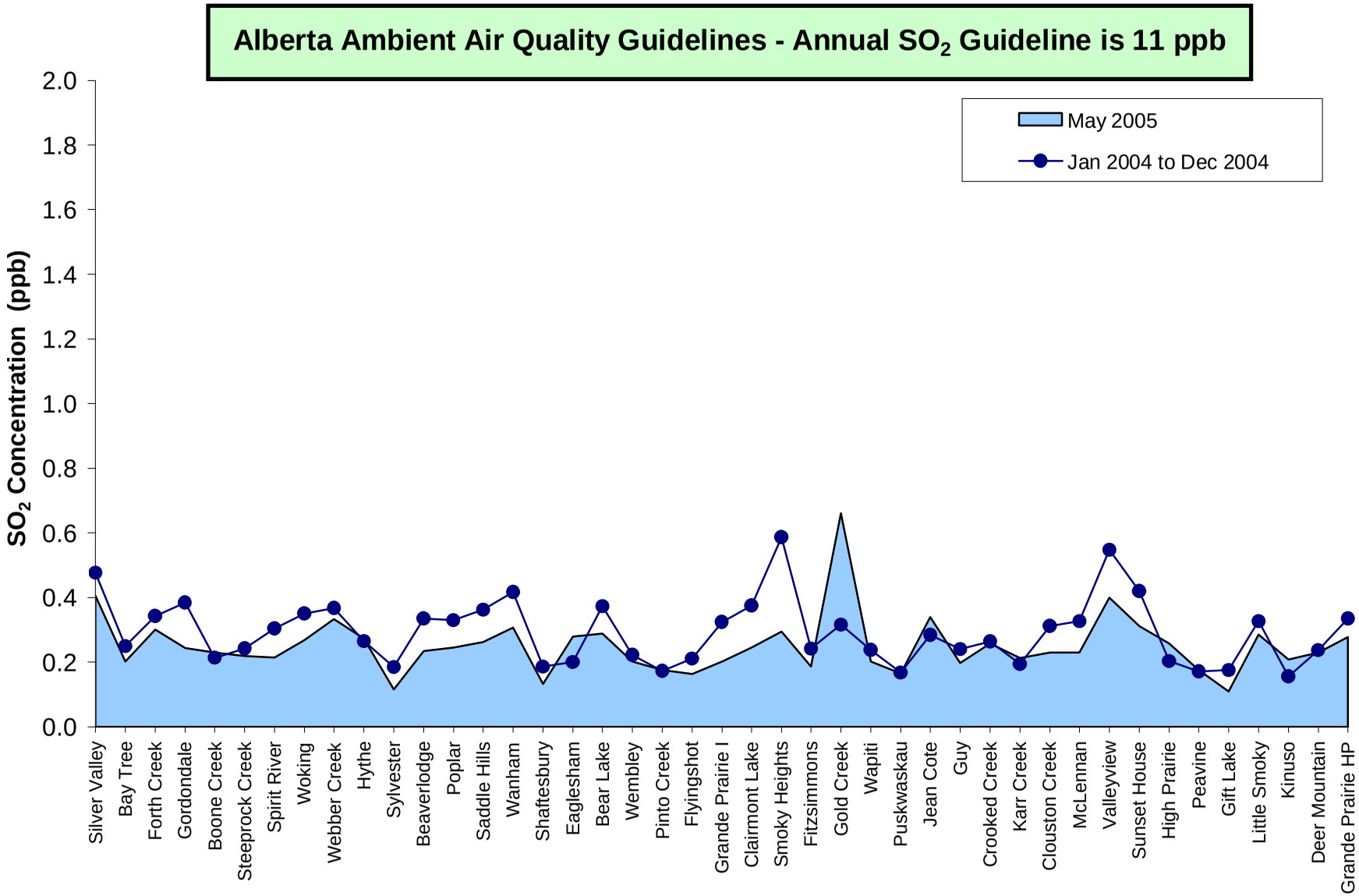


Figure 35. SO_2 Summary Chart

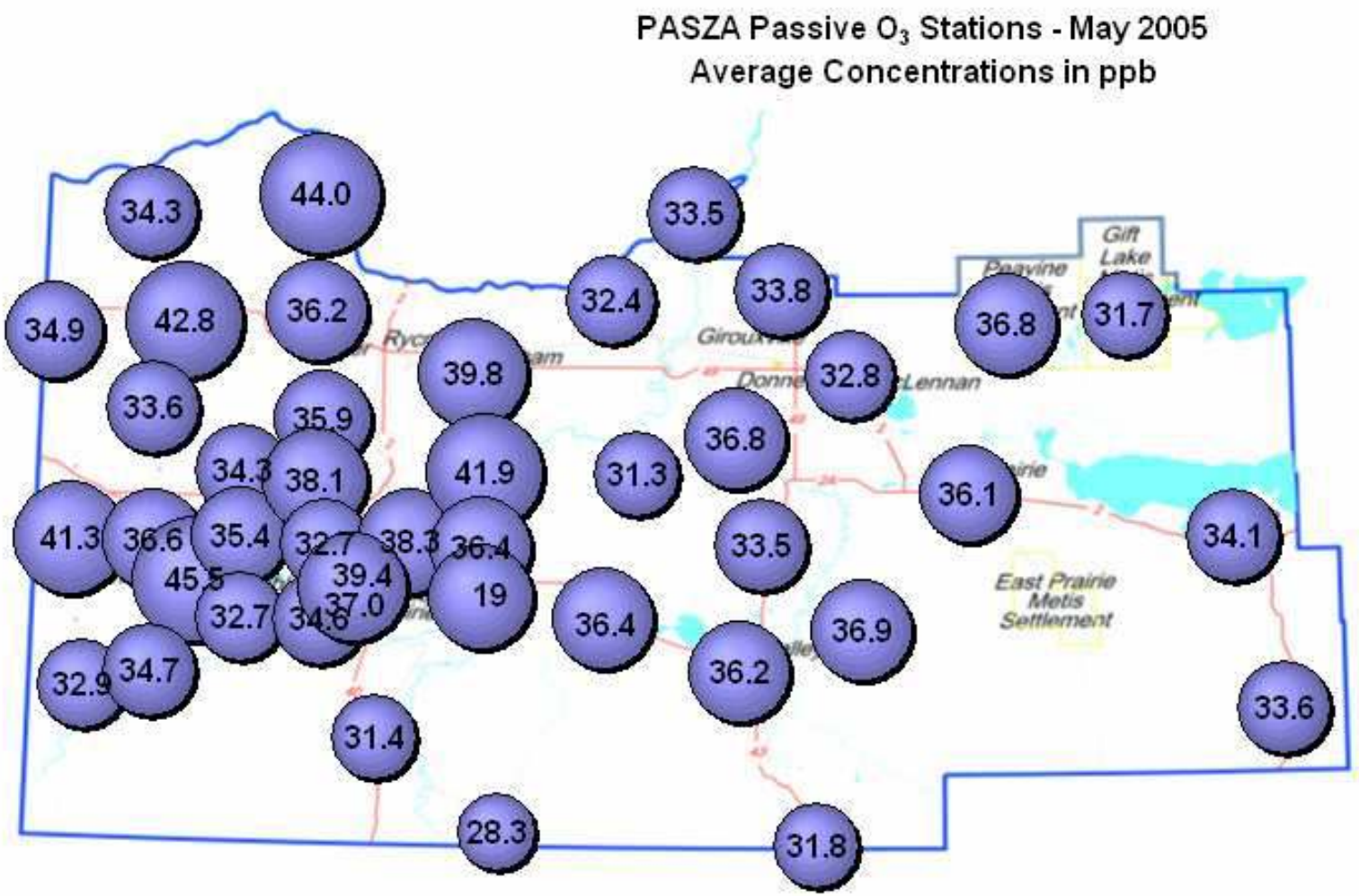


Figure 36. O_3 Bubble Chart

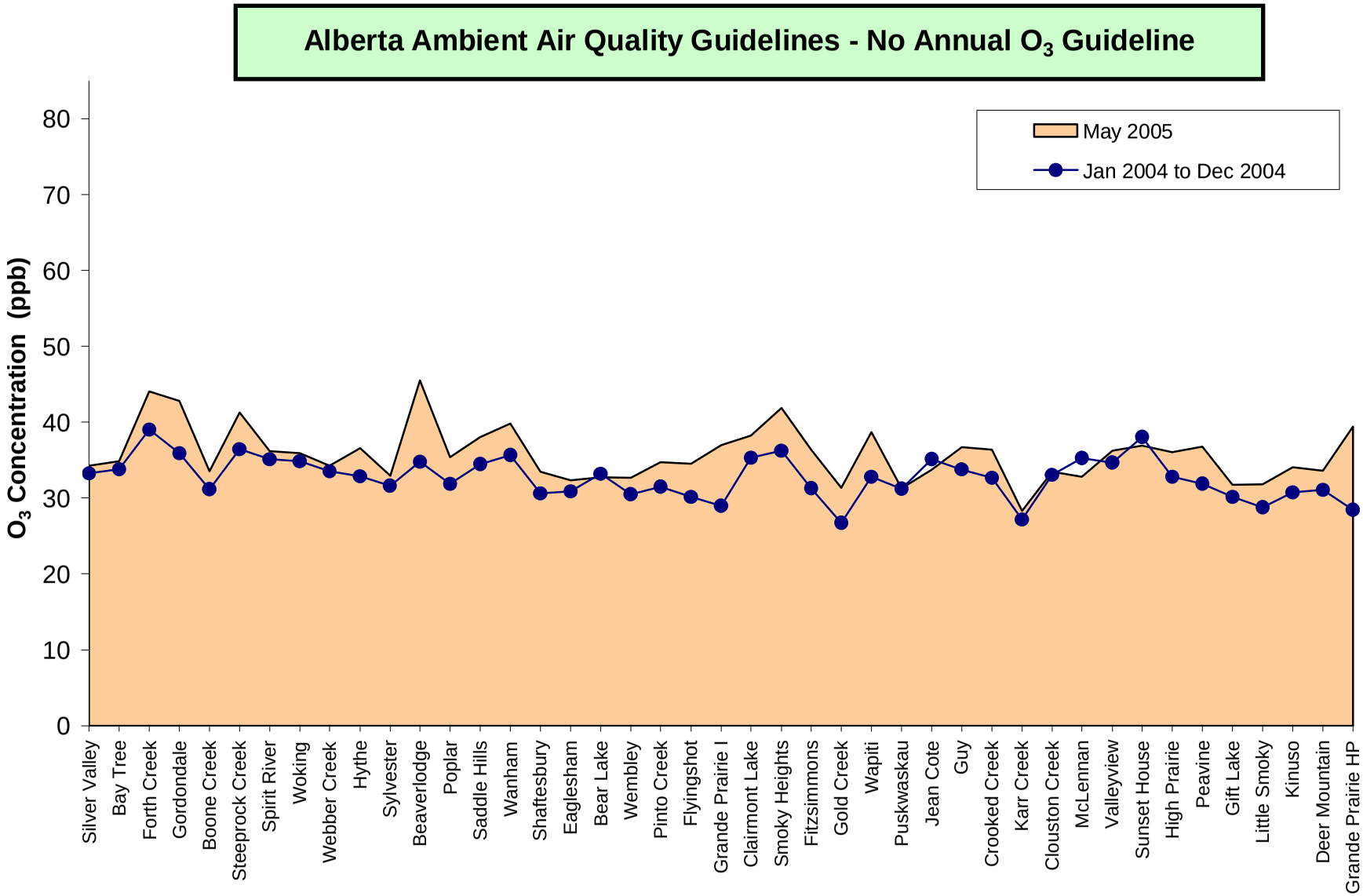


Figure 37. O_3 Summary Chart

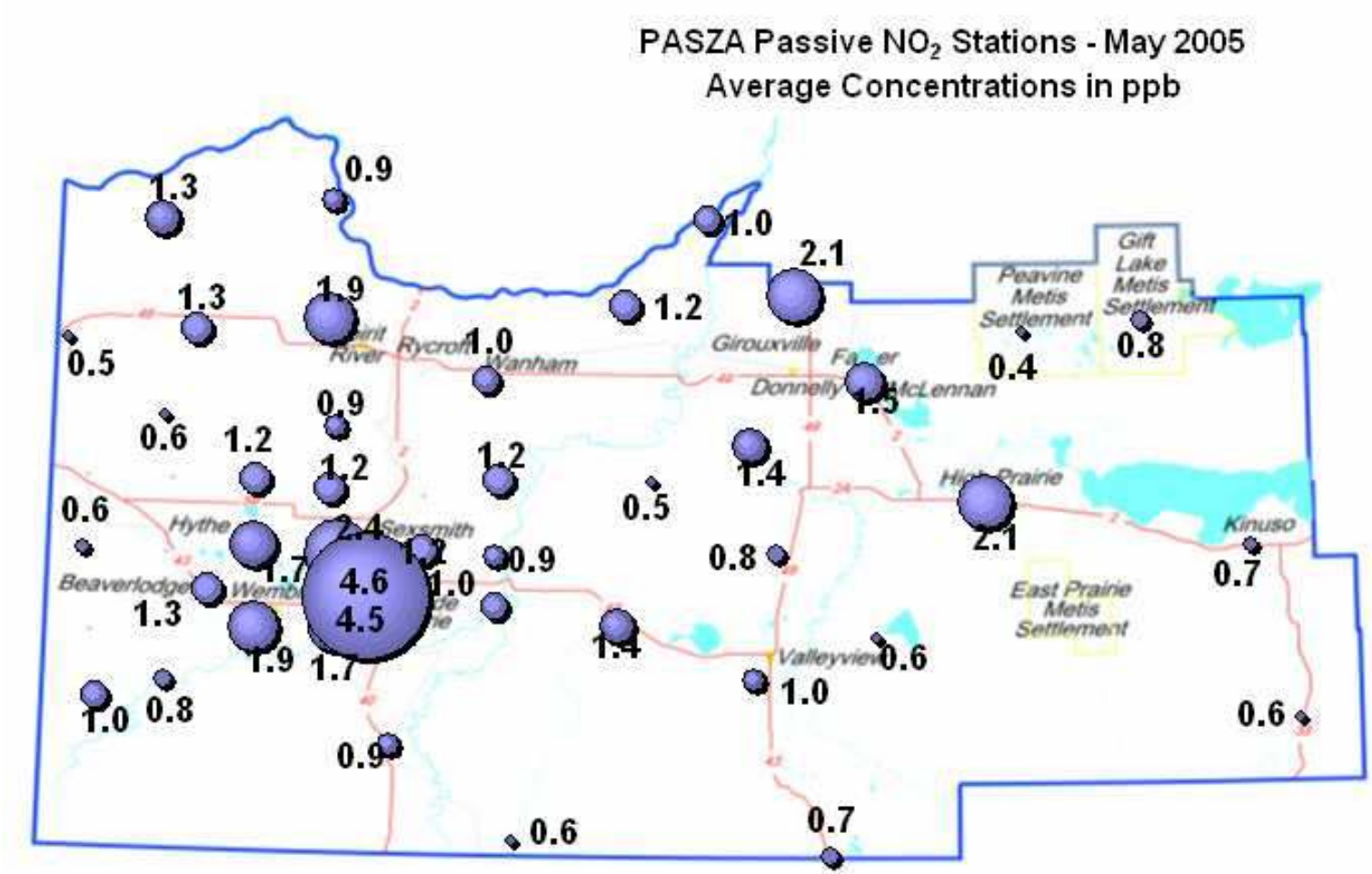


Figure 38. NO_2 Bubble Chart

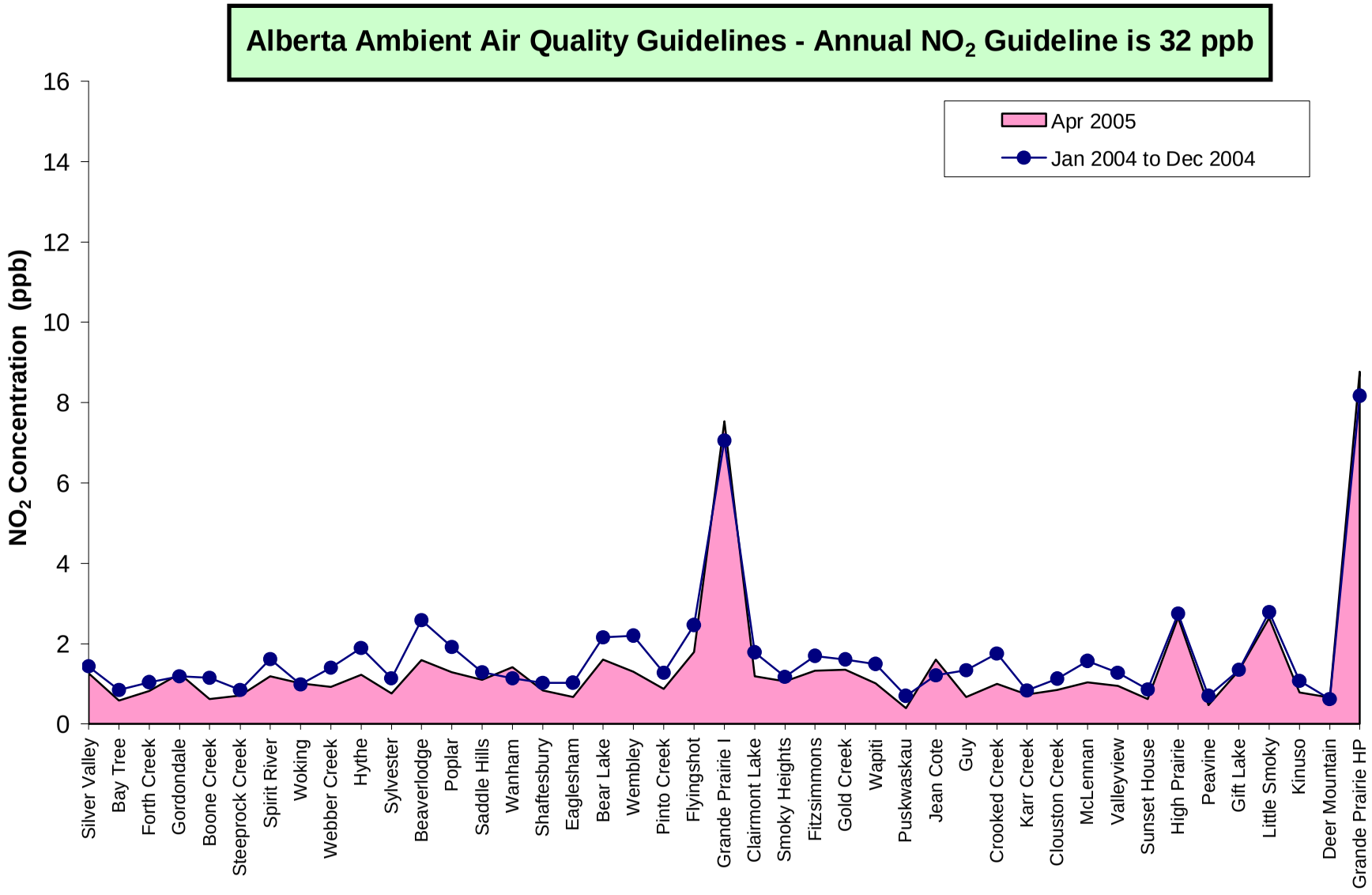


Figure 39. NO_2 Summary Chart

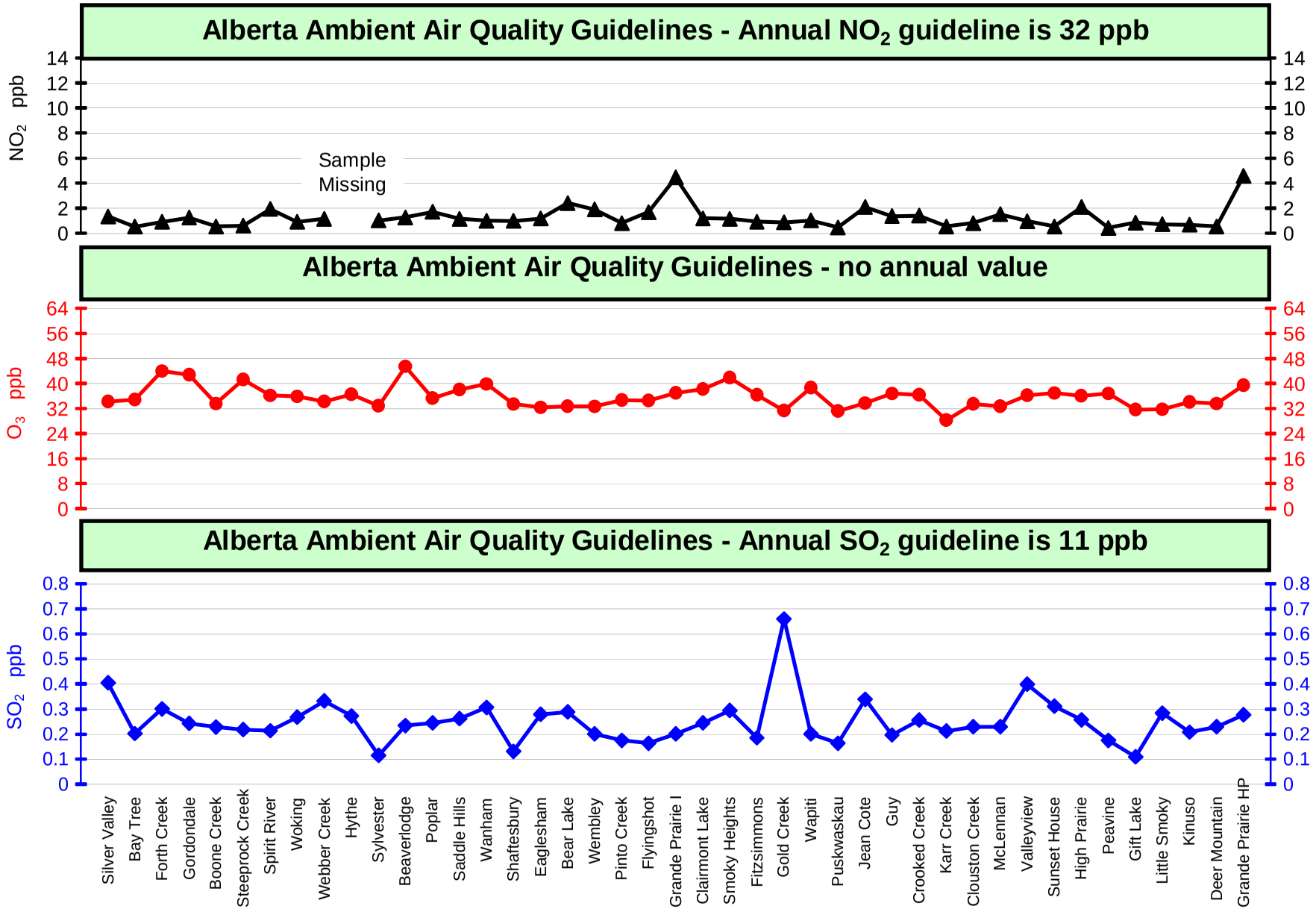


Figure 40. Overview Summary

May 2005 Calibration Reports

PASZA - Henry Pirker Station with the following calibrations:

SO_2, NO, NO_2, NO_x, O_3, CO, THC, TRS, $PM_{2.5}$

PASZA – Evergreen Park Station with the following calibrations:

SO_2, TRS, $PM_{2.5}$

PASZA – Smoky Heights Station with the following calibrations:

SO_2, TRS, $PM_{2.5}$

Calibration Report

Parameter **SO2**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 18, 2005	Previous Calibration	April 12, 2005
Station Number	1	Station Location	Muskoseepi Park
Reason:	Routine / Install / Removal / Other:		
Start Time (MST)	14:00	End Time (MST)	17:40
Barometric Pressure	27.70 inches Hg	Station Temperature	21.0 Deg C
Calibrator	Environics 6100	Serial Number	3016
Cal Gas Concentration	50.8 ppm	Cal Gas Expiry Date	11/22/2006
Gas Cert Reference	BAL786		
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	8
	Before		After
DACS slope	0.005000	DACS slope	0.005000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope	0.992627	Calculated slope	1.001713
Calculated intercept	-0.866799	Calculated intercept	5.067560
Analyzer make	TEI Model 43A	Analyzer serial #	43A-21120-195

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
SO2 zero pot	171		171	
SO2 span pot	210		286	
UV Lamp voltage	937	V	933	V
Vacuum	20.0	" Hg	19.0	" Hg
Sample Flow	430	ccm	425	ccm

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	0.0	-0.2	N/A
4993	39.97	403.4	400.7	1.0068
4993	19.98	202.5	192.3	1.0530
4993	9.99	101.4	93.1	1.0892
4993	0.00	0.0	-0.2	As found zero
4993	39.97	403.4	387.1	As found span
			Average Correction Factor	1.0497

Calculated value of As Found Response: 383.6 ppm Percent Change of As Found: 4.9%

	before calibration		after calibration	
Auto zero	-0.9	ppm	4.8	ppm
Auto span	295.3	ppm	326.3	ppm

Notes: Span adjustment performed.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter **SO2**

Air Monitoring Network **PASZA**

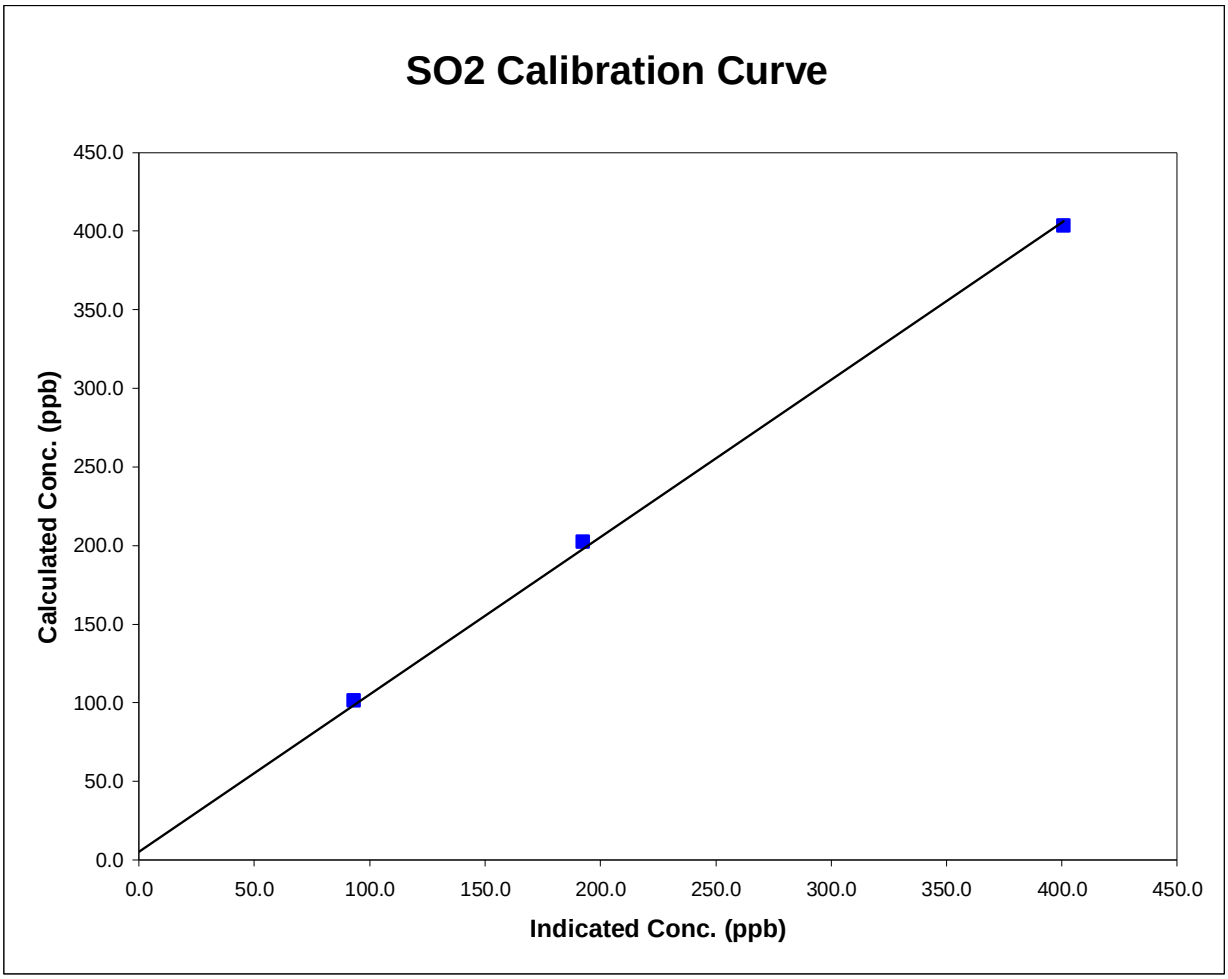
FOCUS AIR QUALITY MONITORING

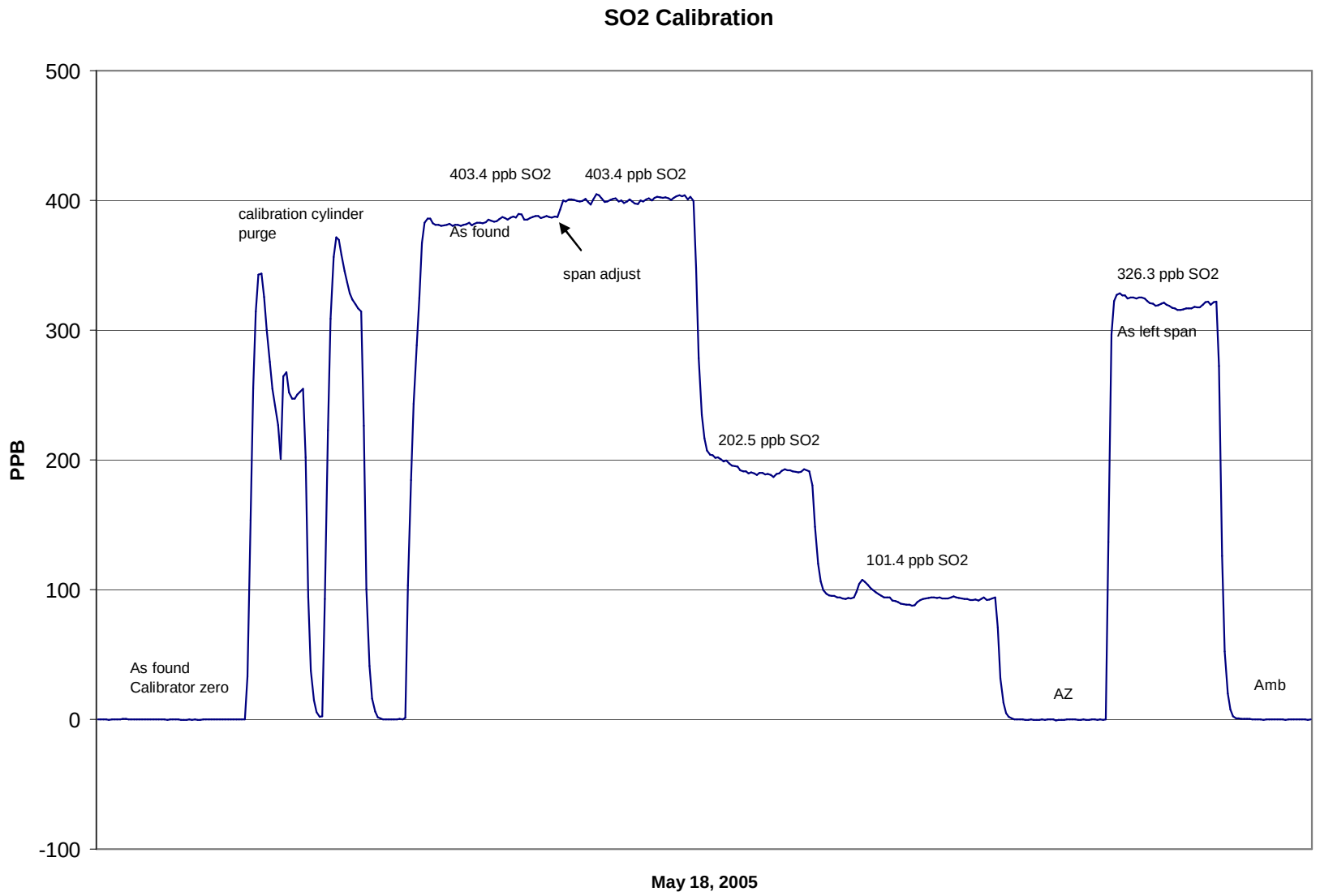
Station Information

Calibration Date	May 18, 2005	Previous Calibration	April 12, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	14:00	End Time (MST)	17:40
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	-0.2	N/A		
403.4	400.7	1.0068	Correlation Coefficient	0.999269
202.5	192.3	1.0530		
101.4	93.1	1.0892	Slope	1.001713
			Intercept	5.067560




SO2 Calibration
500
400
300
200
100
0
-100
PPB
403.4 ppb SO2
403.4 ppb SO2
calibration cylinder
purge
As found
span adjust
326.3 ppb SO2
As left span
202.5 ppb SO2
101.4 ppb SO2
As found
Calibrator zero
AZ
Amb
May 18, 2005

Calibration Report

Parameter **$NOx-NO-NO_2$**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 18, 2005	Previous Calibration	April 12, 2005
Station Number	1	Station Location	Muskoseepi Park

Reason: Routine | Installation | **Removal** | Other:

Start Time (MST)	9:05		End Time (MST)	13:45	
Barometric Pressure	0.926	Atm	Station Temperature	20.0	Deg C
Calibrator	Environics 6100		Serial Number	3016	
NO Cal Gas Conc	50.3	ppm	Cal Gas Expiry Date	19-Jan-06	
NOx Cal Gas Conc	50.5	ppm	Cal Gas Serial #	ALM025793	

DACS Information

DACS make: FOCUS AP1000 — DACS serial No.: 45269

Parameter		NO2	NOx	NO
Before	DACS slope	N/A	N/A	N/A
	DACS offset	N/A	N/A	N/A
After	DACS slope	0.050000	0.050000	0.050000
	DACS offset	0.000000	0.000000	0.000000
Before	Data Slope	1.022540	1.015056	1.011022
	Data Offset	-0.496661	-1.302460	-1.188545
After	Data Slope	NA	NA	NA
	Data Offset	NA	NA	NA
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	10.5	ppb	NA	mV
NOx background	11.1	ppb	NA	mV
NO coefficient	1.449		NA	
NOx coefficient	1.003		NA	
Chamber Temp	49.9	Deg C	NA	Deg C
Cooler Temp	2.0	Deg C	NA	Deg C
Converter Temp	323.0	Deg C	NA	Deg C
Vacuum	21.0	mm Hg	NA	mm Hg
Box temp	29.2	ccm	NA	ccm

Notes: Analyzer was removed from service due to failing electronic symptoms.

Calibration Report

Parameter **NOx-NO-NO_2**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date: May 18, 2005 Station Location: Muskoseepi Park

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor
zero									N/A	N/A
1										
2										
3										
AFZ	4993	0.00	0.0	0.0	0.0	-1.4	-0.8	-0.5	0.0000	0.0000
AFS	4993	39.97	401.1	399.5	1.6	400.0	399.7	0.2	1.0027	0.9995
							Average Correction Factor			

As Found Concentrations: NO_X= 400.1 NO= 399.3 As Found Percent Change NO_X= -0.2% NO= 0.0%

GPT Calibration Data

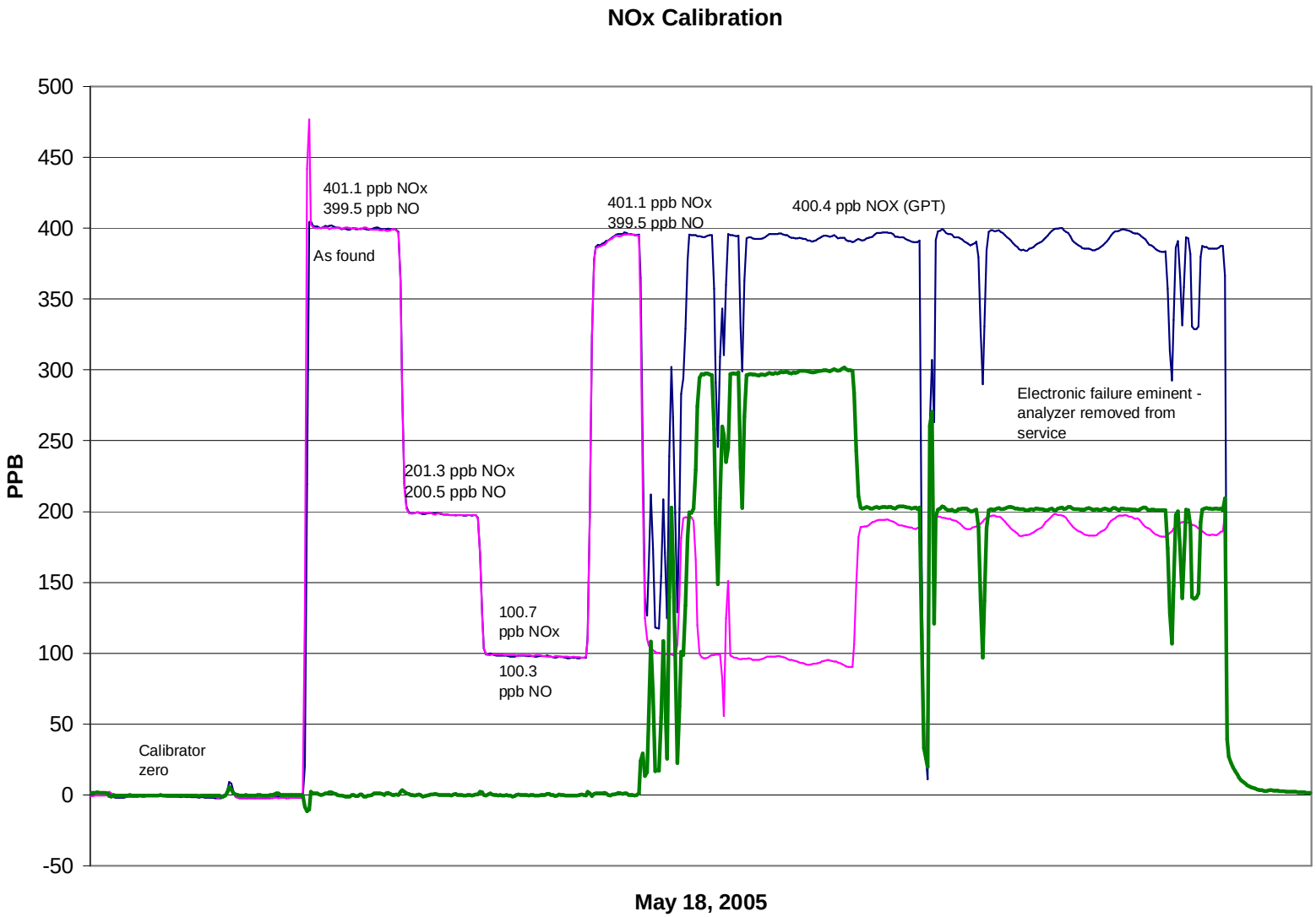
Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0										
NO point										
350										
200										
100										
					Average Correction Factor					

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	-0.7	-0.5	-0.5	ppb	NA	NA	NA	ppb
Auto span	433.4	434.0	1.8	ppb	NA	NA	NA	ppb

Calibration Performed By: Kelly Baragar


NOx Calibration
500
450
400
350
300
250
200
150
100
50
0
-50
PPB
401.1 ppb NOx
399.5 ppb NO
As found
201.3 ppb NOx
200.5 ppb NO
100.7
ppb NOx
100.3
ppb NO
Calibrator
zero
401.1 ppb NOx
399.5 ppb NO
400.4 ppb NOX (GPT)
Electronic failure eminent -
analyzer removed from
service
May 18, 2005

Calibration Report

Parameter **NOx-NO-NO_2**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 20, 2005	Previous Calibration	NA
Station Number	1	Station Location	Muskoseepi Park

Reason: Routine | **Installation** | Removal | Other:

Start Time (MST)	7:20		End Time (MST)	10:45	
Barometric Pressure	0.926	Atm	Station Temperature	20.0	Deg C
Calibrator	Environics 6100		Serial Number	3016	
NO Cal Gas Conc	50.3	ppm	Cal Gas Expiry Date	19-Jan-06	
NOx Cal Gas Conc	50.5	ppm	Cal Gas Serial #	ALM025793	

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	45269

Parameter		NO2	NOx	NO
Before	DACS slope	N/A	N/A	N/A
	DACS offset	N/A	N/A	N/A
After	DACS slope	0.050000	0.050000	0.050000
	DACS offset	0.000000	0.000000	0.000000
Before	Data Slope	N/A	N/A	N/A
	Data Offset	N/A	N/A	N/A
After	Data Slope	1.014650	0.997462	0.996245
	Data Offset	-2.751560	-0.474953	-0.347097
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	NA	ppb	7.2	mV
NOx background	NA	ppb	7.5	mV
NO coefficient	NA		1.120	
NOx coefficient	NA		1.002	
Chamber Temp	NA	Deg C	49.8	Deg C
Cooler Temp	NA	Deg C	-2.4	Deg C
Converter Temp	NA	Deg C	318.0	Deg C
Vacuum	NA	mm Hg	213.6	mm Hg
Box temp	NA	ccm	31.6	ccm

Notes: Instrument installation performed. Internal zero/span inoperable due to missing factory parts.

Calibration Report

Parameter **NOx-NO-NO_2**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date: May 20, 2005 Station Location: Muskoseepi Park

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx 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	401.7	400.6	1.1	0.9983	0.9971
2	4993	19.98	201.3	200.5	0.8	204.1	203.2	0.8	0.9861	0.9864
3	4993	9.99	100.8	100.4	0.4	101.0	100.6	0.4	0.9981	0.9986
AFZ										
AFS										
							Average Correction Factor		0.9942	0.9940

As Found Concentrations: NO_X= NA NO= NA As Found Percent Change NO_X= NA NO= NA

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 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	398.4	399.5	-1.1	402.4	401.4	1.1	0.9900	0.9954	N/A	N/A
350	398.4	66.4	332.0	394.3	67.0	327.5	1.0105	0.9911	1.0139	98.6%
200	398.4	213.6	184.9	402.7	214.7	188.3	0.9894	0.9946	0.9818	101.9%
100	398.4	307.3	91.1	402.8	308.8	94.3	0.9892	0.9951	0.9661	103.5%
					Average Correction Factor		0.9964	0.9936	0.9873	101.3%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	NA	NA	NA	ppb	NA	NA	NA	ppb
Auto span	NA	NA	NA	ppb	NA	NA	NA	ppb

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter **NO_2**

Air Monitoring Network **PASZA**

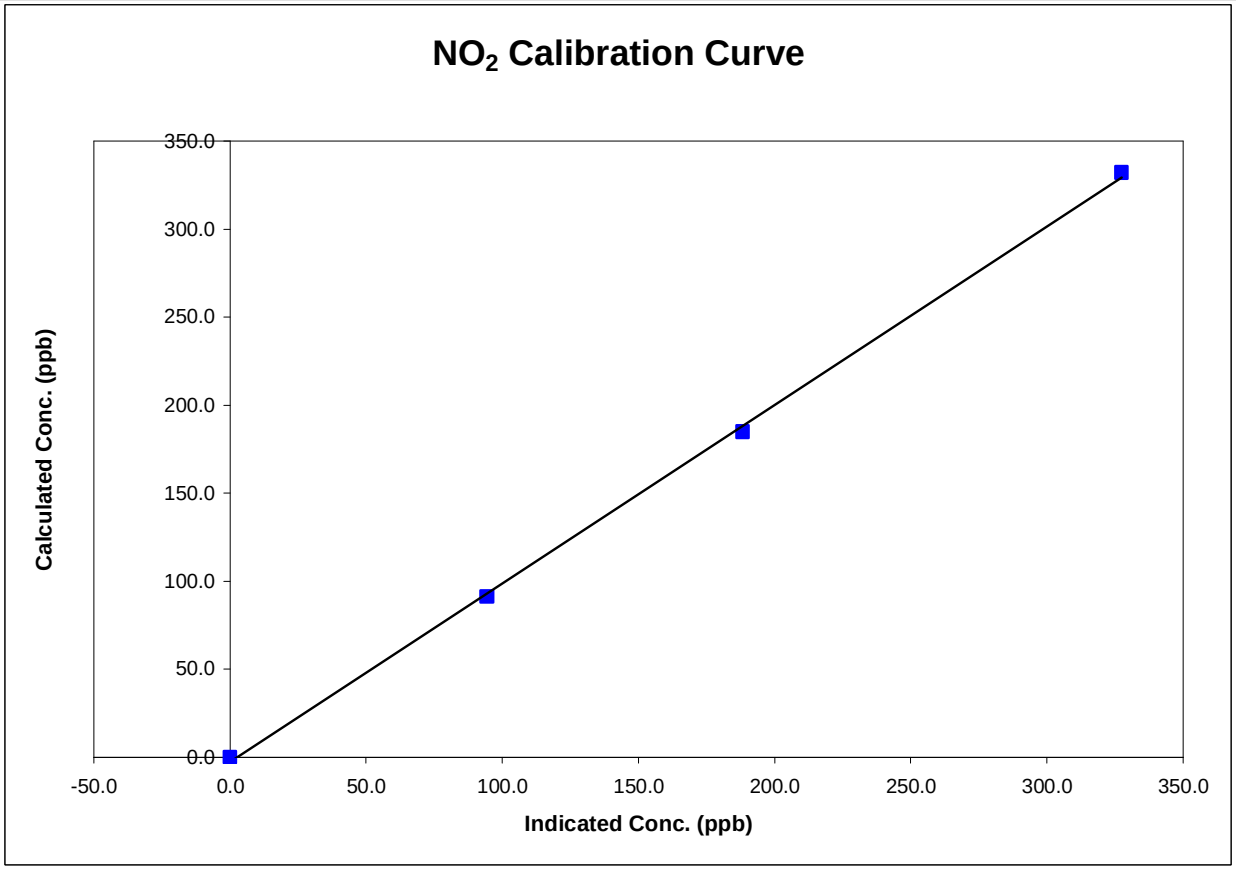
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 20, 2005	Previous Calibration	NA
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	7:20	End Time (MST)	10:45
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		
332.0	327.5	1.0139	Correlation Coefficient	0.999518
184.9	188.3	0.9818		
91.1	94.3	0.9661	Slope	1.014650
			Intercept	-2.751560



Calibration Summary

Parameter **NO**

Air Monitoring Network **PASZA**

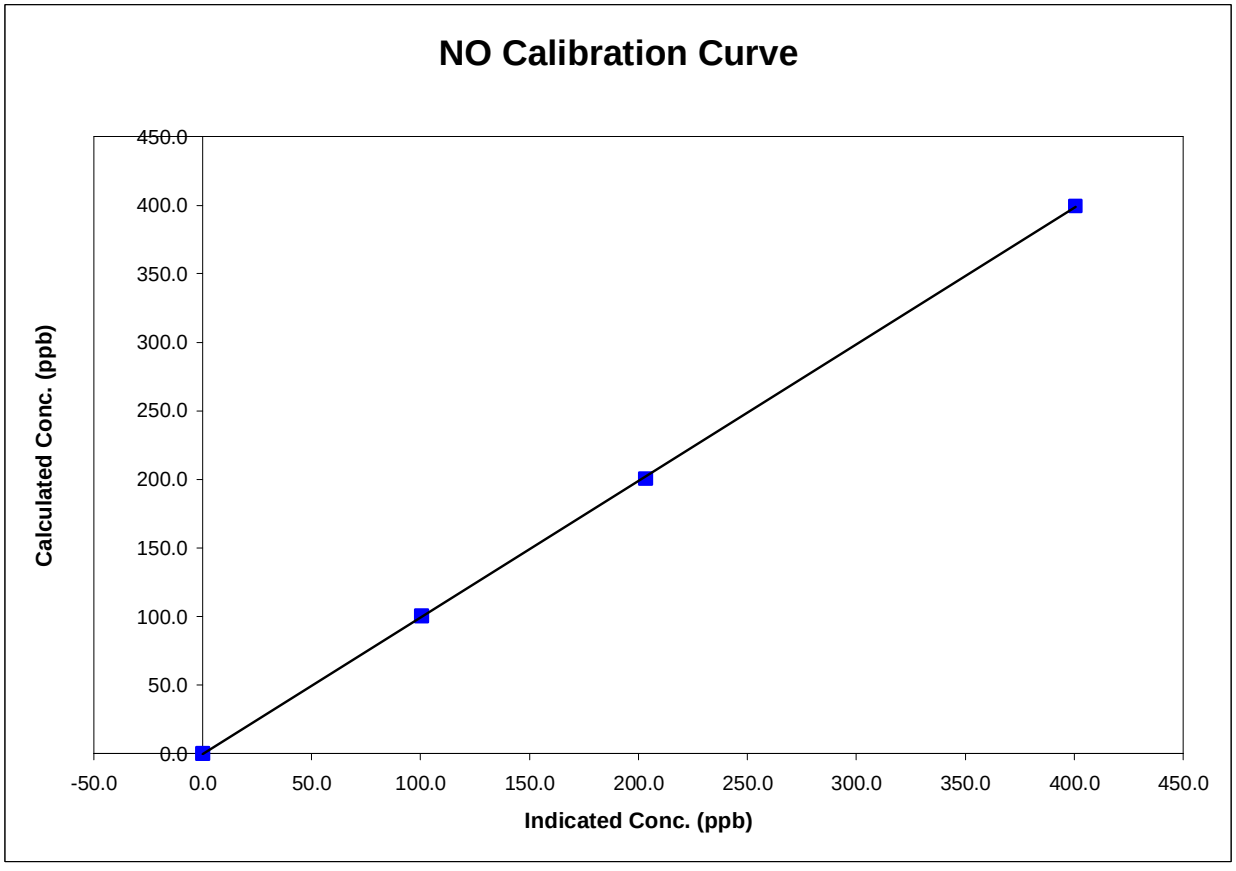
FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 20, 2005	Previous Calibration	NA
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	7:20	End Time (MST)	10:45
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	400.6	0.9971	Correlation Coefficient	0.999958
200.5	203.2	0.9864		
100.4	100.6	0.9986	Slope	0.996245
			Intercept	-0.347097



Calibration Summary

Parameter **NO_x**

Air Monitoring Network **PASZA**

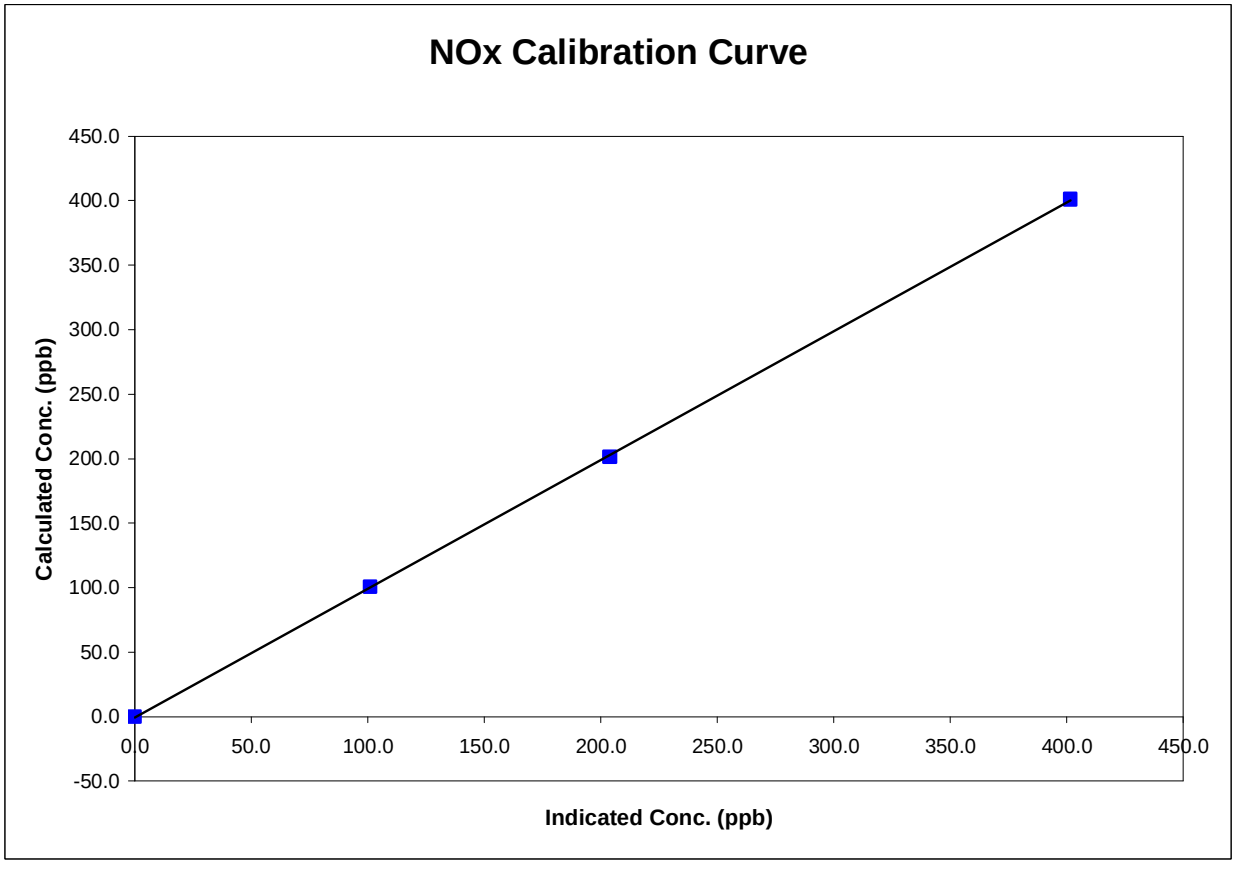
FOCUS AIR QUALITY MONITORING

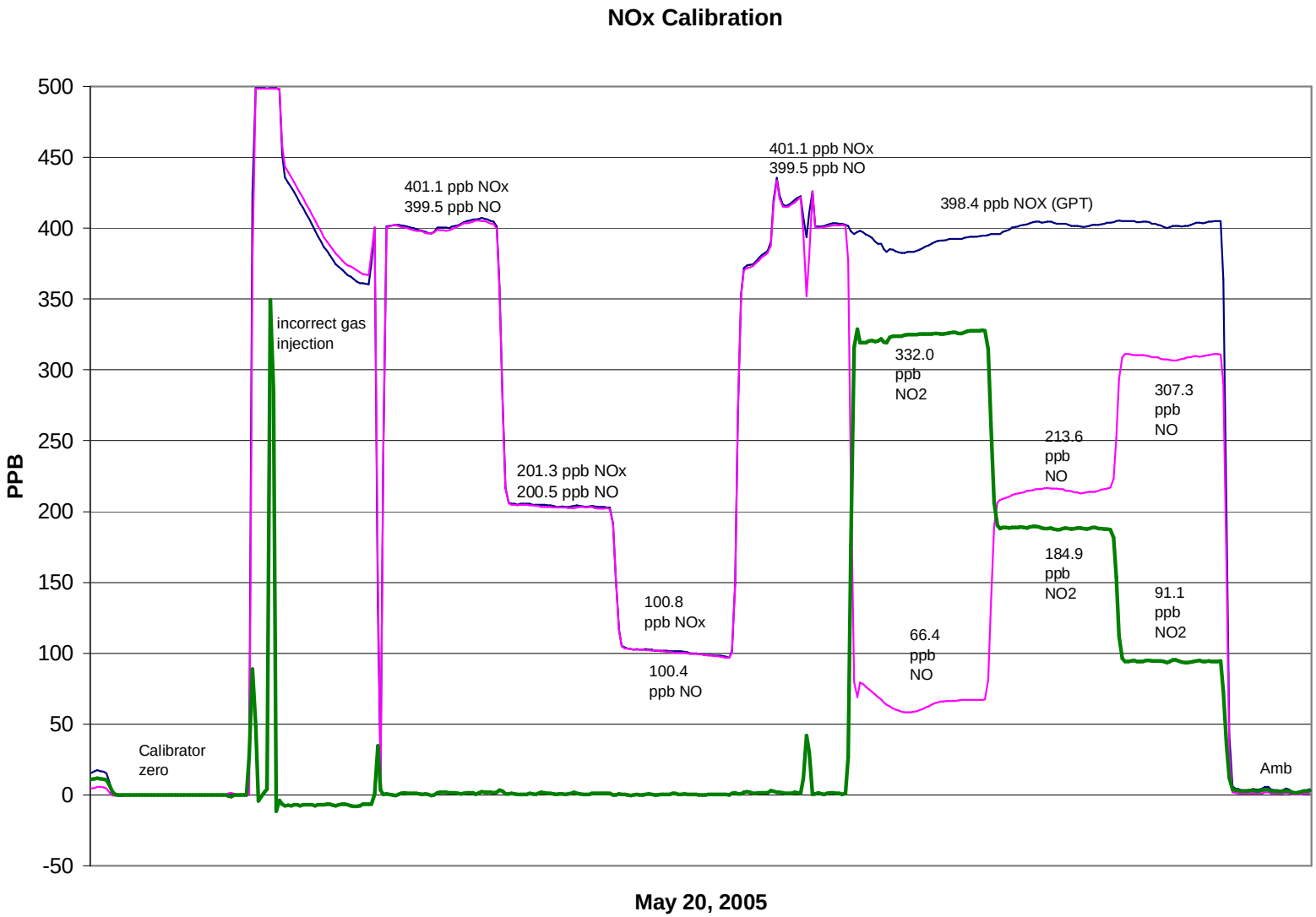
Station Information

Calibration Date	May 20, 2005	Previous Calibration	NA
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	7:20	End Time (MST)	10:45
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		
401.1	401.7	0.9983	Correlation Coefficient	0.999948
201.3	204.1	0.9861		
100.8	101.0	0.9981	Slope	0.997462
			Intercept	-0.474953




NOx Calibration
500
450
400
350
300
250
200
150
100
50
0
-50
PPB
401.1 ppb NOx
399.5 ppb NO
401.1 ppb NOx
399.5 ppb NO
398.4 ppb NOX (GPT)
incorrect gas
injection
332.0
ppb
NO2
307.3
ppb
NO
213.6
ppb
NO
201.3 ppb NOx
200.5 ppb NO
184.9
ppb
NO2
91.1
ppb
NO2
100.8
ppb NOx
66.4
ppb
NO
100.4
ppb NO
Calibrator
zero
Amb
May 20, 2005

Calibration Report

Parameter **O3**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 19, 2005	Previous Calibration	April 12, 2005
Station Number	1	Station Location	Muskoseepi Park
Reason:	Routine ☒ Install ☐	Removal ☐	Other: ☐
Start Time (MST)	19:35	End Time (MST)	22:00
Barometric Pressure	0.926 atm	Station Temperature	21.5 Deg C
Calibrator	Environics 6100	Serial Number	3016
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 1 volt	DACS channel #	5
	Before		After
DACS slope	0.050000	DACS slope	0.050000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope	0.994956	Calculated slope	1.047905
Calculated intercept	0.261947	Calculated intercept	-2.690889
Analyzer make	API Model 400	Analyzer serial #	383

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
offset	-1.2	ppb	-1.2	ppb
slope	1.048		1.048	
Lamp measure	2662	mV	2632	mV
Lamp Reference	2663	mV	2633	mV
Pressure	26.9	inches Hg	26.9	inches Hg
Sample Flow	664	ccm	664	ccm
Lamp temp	52	Deg C	52	Deg C

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4995	0.00	0.0	0.7	N/A
4995	0.00	332.0	317.4	1.0459
4995	0.00	184.9	182.0	1.0158
4995	0.00	91.1	90.3	1.0089
4995	0.00	0.0	0.7	As found zero
4995	0.00	332.0	317.4	As found span
			Average Correction Factor	1.0235

Calculated value of As Found Response: 315.4 ppm Percent Change of As Found: -5.0%

	before calibration		after calibration	
Auto zero	1.5	ppb	-1.5	ppb
Auto span	272.9	ppb	279.5	ppb

Notes: No adjustments or maintenance performed. Calculated concentrations based on GPT performed May 20th of the NOX calibration.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter **O3**

Air Monitoring Network **PASZA**

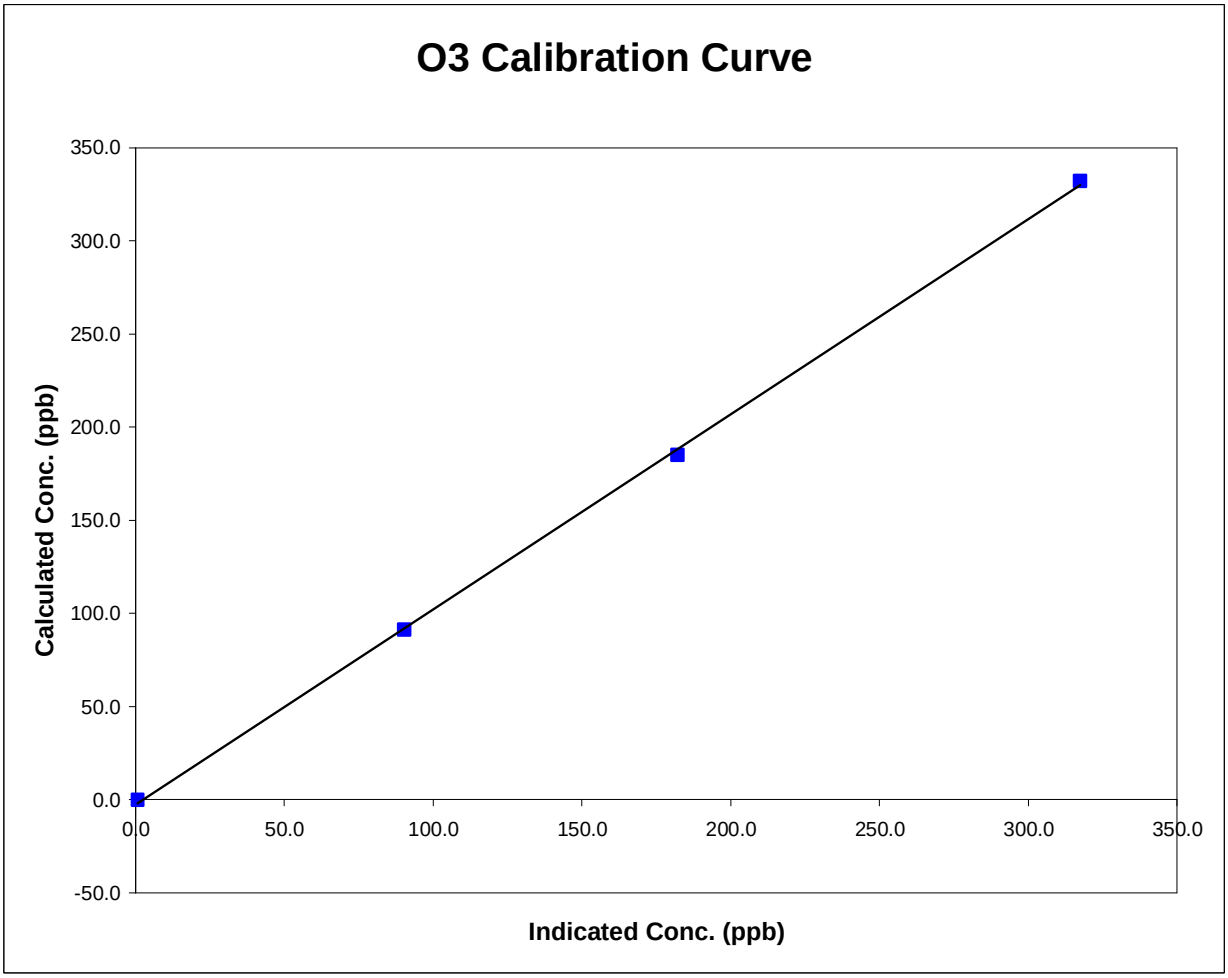
FOCUS AIR QUALITY MONITORING

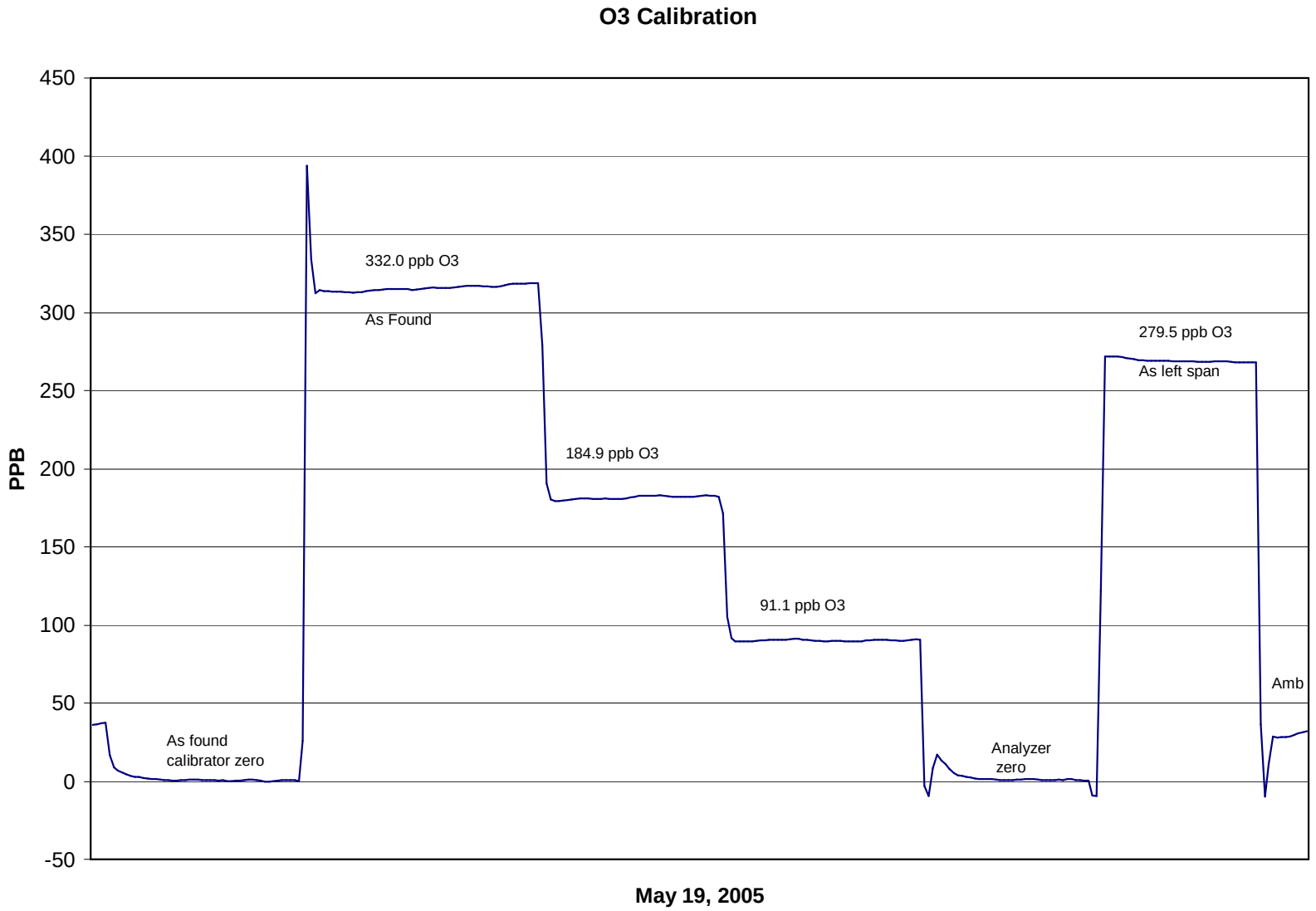
Station Information

Calibration Date	May 19, 2005	Previous Calibration	April 12, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	19:35	End Time (MST)	22:00
Analyzer make/model	API Model 400	Analyzer serial #	383

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.7	NA		
332.0	317.4	1.0459	Correlation Coefficient	0.999691
184.9	182.0	1.0158		
91.1	90.3	1.0089	Slope	1.047905
			Intercept	-2.690889




O3 Calibration
450
400
350
300
250
200
150
100
50
0
-50
PPB
332.0 ppb O3
As Found
184.9 ppb O3
91.1 ppb O3
279.5 ppb O3
As left span
Amb
As found
calibrator zero
Analyzer
zero
May 19, 2005

Calibration Report

Parameter **CO**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 17, 2005	Previous Calibration	April 12, 2005
Station Number	1	Station Location	Muskoseepi Park
Reason:	Routine ☒ Install ☐	Removal ☐	Other: ☐
Start Time (MST)	13:30	End Time (MST)	16:30
Barometric Pressure	0.924 ATM	Station Temperature	20.0 Deg C
Calibrator	Environics 6100	Serial Number	3016
Cal Gas Conc	3000 ppm	Cal Gas Expiry Date	12/10/2005
		Cal Gas Cylinder #	ALM 005412
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
DACS slope	0.005000	DACS slope	0.005000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope	1.002982	Calculated slope	1.007826
Calculated intercept	-0.043694	Calculated intercept	-0.123014
Analyzer make	TEI Model 48	Analyzer serial #	ACM-13989-143

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
CO span setting	805		767	
CO zero setting	516		516	
Sample pressure	691	mm Hg	682	mm Hg
Sample Flow	1.15	LPM	1.15	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	0.21	N/A
4993	39.97	23.82	23.81	1.0008
4993	19.96	11.95	11.92	1.0018
4993	9.97	5.98	5.98	1.0004
4993	0.00	0.00	0.21	As Found Zero
4993	39.97	23.82	24.44	As Found Span
			Average Correction Factor	1.0010

Calculated value of As Found Response: 24.266 ppm Percent Change of As Found: -1.9%

	before calibration		after calibration	
Auto zero	0.02	ppm	0.12	ppm
Auto span	20.50	ppm	20.39	ppm

Notes: Analyzer was span adjusted. All pertinent analyzer functions appear fine.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter **CO**

Air Monitoring Network **PASZA**

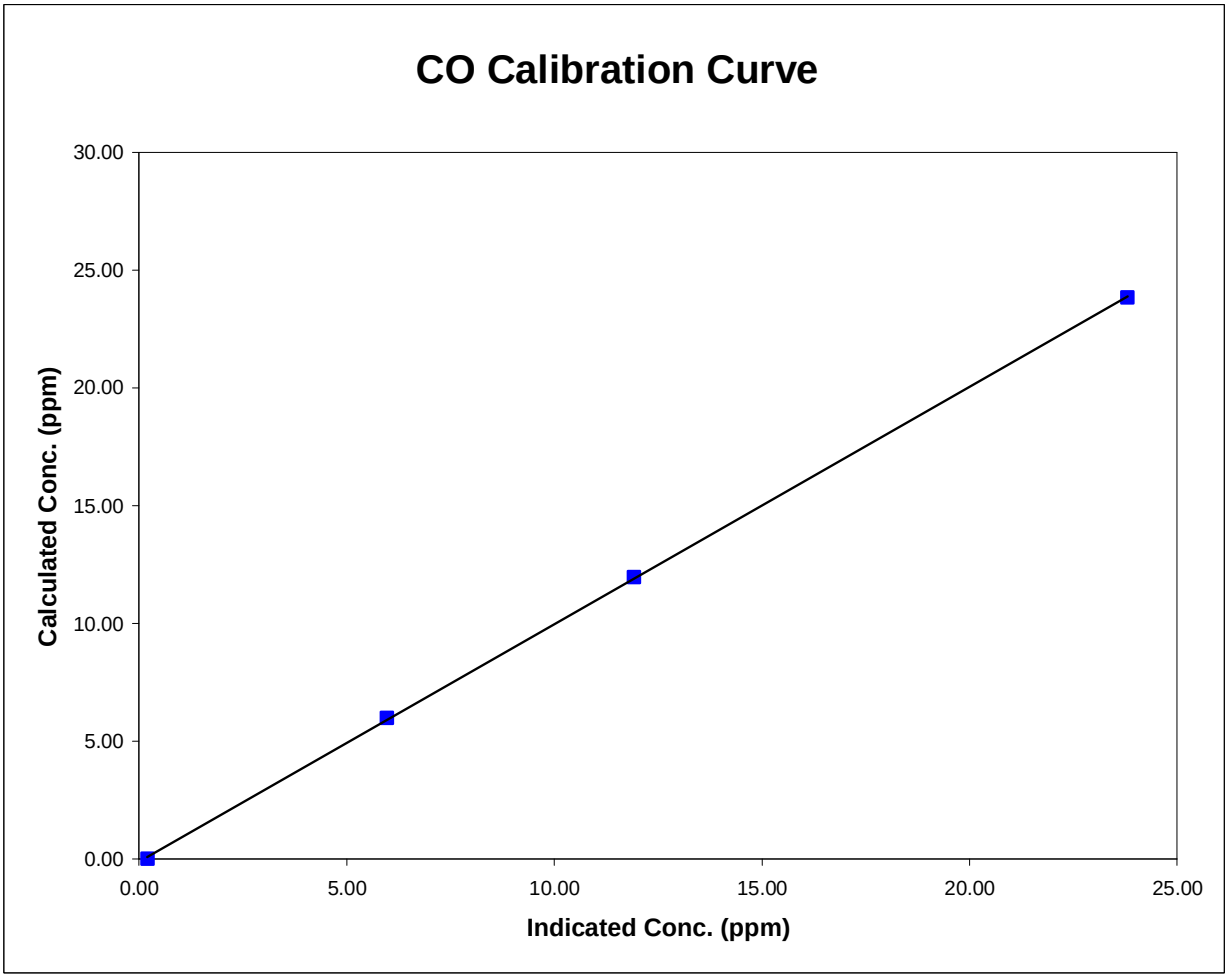
FOCUS AIR QUALITY MONITORING

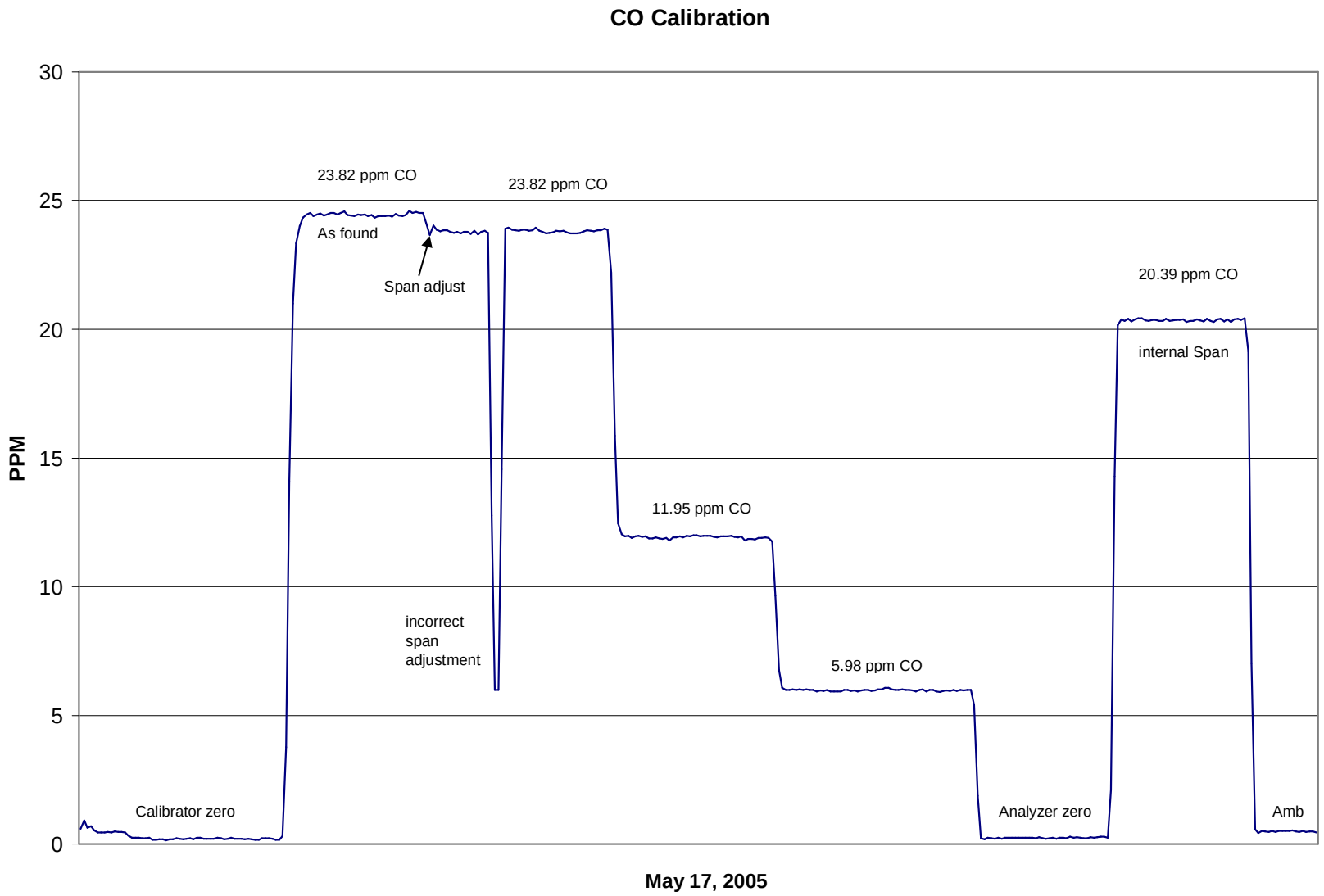
Station Information

Calibration Date	May 17, 2005	Previous Calibration	April 12, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	13:30	End Time (MST)	16:30
Analyzer make/model	TEI Model 48	Analyzer serial #	ACM-13989-143

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.207	N/A		
23.825	23.806	1.0008	Correlation Coefficient	0.999942
11.945	11.923	1.0018		
5.978	5.976	1.0004	Slope	1.007826
			Intercept	-0.123014




CO Calibration
30
25
20
15
10
5
0
PPM
23.82 ppm CO
23.82 ppm CO
As found
Span adjust
20.39 ppm CO
internal Span
11.95 ppm CO
incorrect
span
adjustment
5.98 ppm CO
Calibrator zero
Analyzer zero
Amb
May 17, 2005

Calibration Report

Parameter **THC**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 17, 2005	Previous Calibration	April 12, 2005
Station Number	1	Station Location	Muskoseepi Park
Reason:	Routine / Install / Removal / Other:		
Start Time (MST)	15:40	End Time (MST)	18:45
Barometric Pressure	0.924 ATM	Station Temperature	20.0 Deg C
Calibrator	Environics 6100	Serial Number	3016
Cal Gas Concentration	700 ppm CH4/ 299 ppm C3H8	Cal Gas Expiry Date	12/10/2005
Cal Gas CH4 equiv	1522.25 ppm	Cal Gas Cylinder #	ALM 030358
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
DACS slope	0.005000	DACS slope	0.005000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope	0.998473	Calculated slope	1.002447
Calculated intercept	-0.022225	Calculated intercept	-0.006018
Analyzer make	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
THC sample pressure	6.11	psi	6.11	psi
THC span counts	6829	capture	6791	capture
THC zero counts	1330	capture	1249	capture

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	0.01	N/A
4993	64.97	19.55	19.52	1.0017
4993	34.96	10.58	10.55	1.0034
4993	9.97	3.03	3.04	0.9995
4993	0.00	0.00	-0.21	As Found Zero
4993	64.97	19.55	19.51	As Found Span
			Average Correction Factor	1.0015

Calculated value of As Found Response: 19.669 ppm Percent Change of As Found: -0.6%

	before calibration		after calibration	
Auto zero	0.00	ppm	0.13	ppm
Auto span	21.43	ppm	21.63	ppm

Notes: Zero and span adjusted analyzer.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter **THC**

Air Monitoring Network **PASZA**

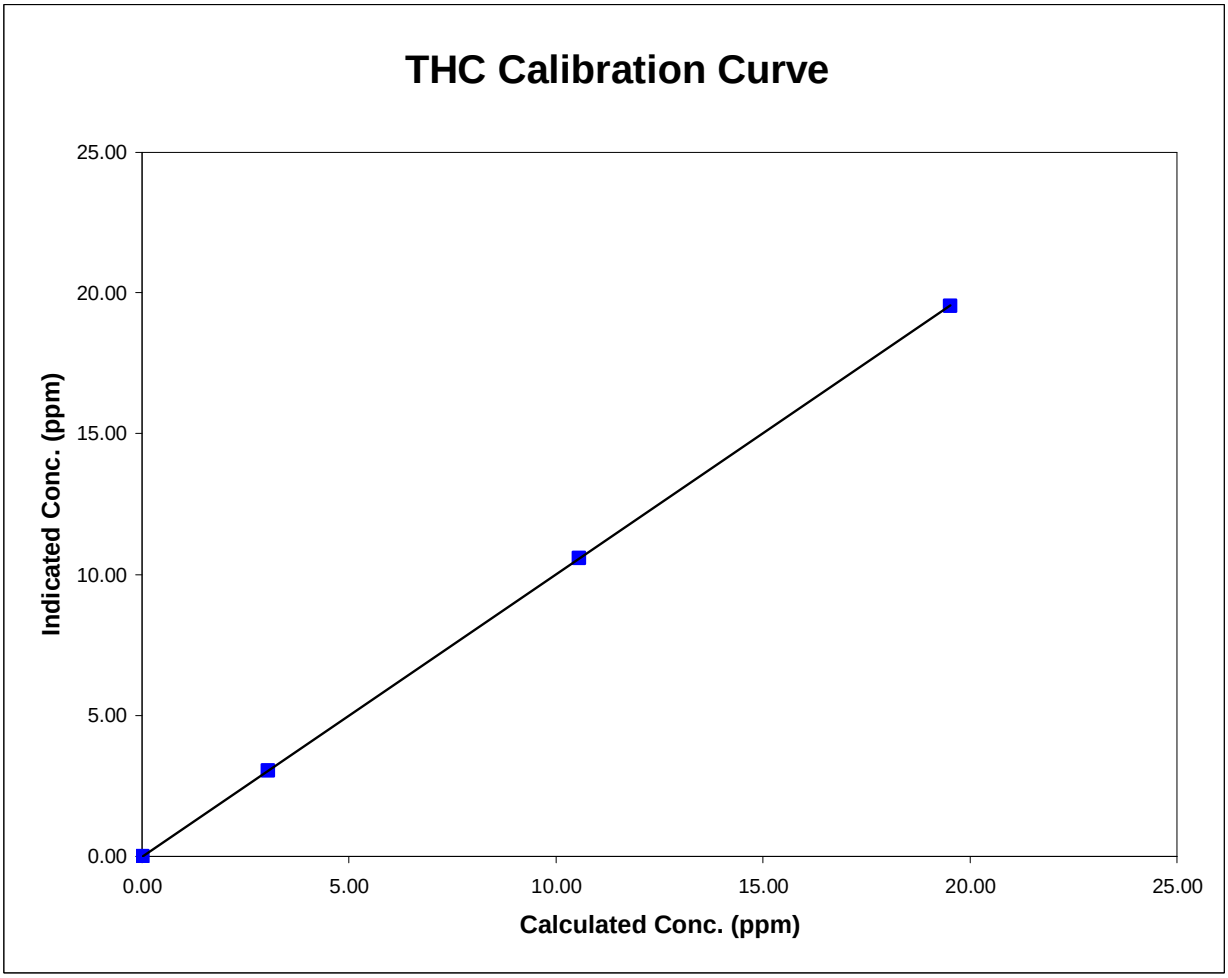
FOCUS AIR QUALITY MONITORING

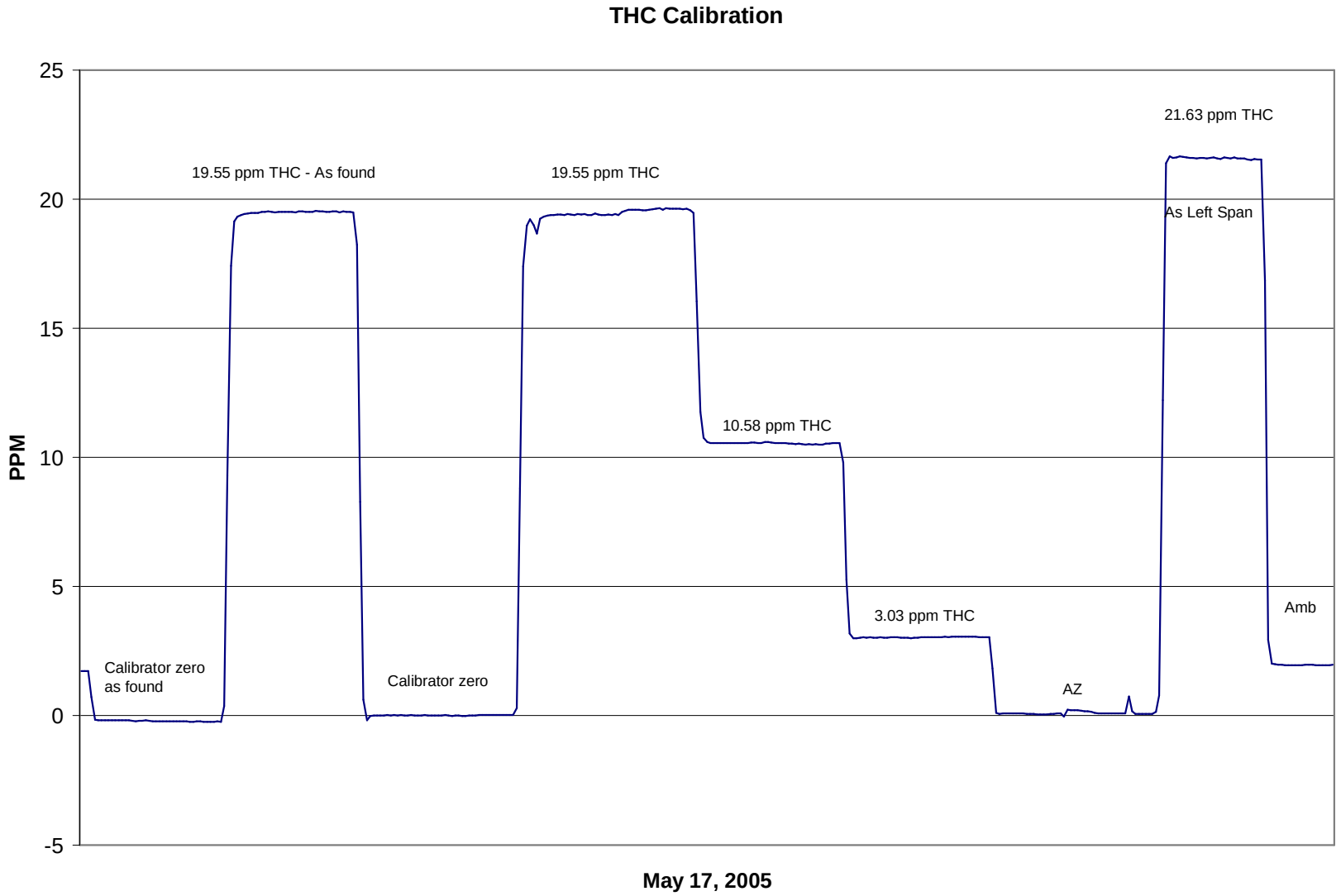
Station Information

Calibration Date	May 17, 2005	Previous Calibration	April 12, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	15:40	End Time (MST)	18:45
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	0.011	N/A		
19.553	19.520	1.0017	Correlation Coefficient	0.999998
10.584	10.549	1.0034		
3.034	3.035	0.9995	Slope	1.002447
			Intercept	-0.006018




THC Calibration
25
20
15
10
5
0
-5
PPM
19.55 ppm THC - As found
19.55 ppm THC
10.58 ppm THC
3.03 ppm THC
21.63 ppm THC
As Left Span
Amb
Calibrator zero as found
Calibrator zero
AZ
May 17, 2005

Calibration Report

Parameter **TRS**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 17, 2005	Previous Calibration	April 13, 2005
Station Number	1	Station Location	Muskoseepi Park
Reason:	Routine / Install / Removal / Other:		
Start Time (MST)	10:25	End Time (MST)	14:30
Barometric Pressure	27.4 inches Hg	Station Temperature	20.0 Deg C
Calibrator	Environics 6100	Serial Number	111-1695
Cal Gas Concentration	5.02 ppm	Cal Gas Expiry Date	11/22/2006
Gas Cert Reference	BLM003489		
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
DACS slope	0.005000	DACS slope	0.005000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope	1.015526	Calculated slope	1.003427
Calculated intercept	-0.127358	Calculated intercept	0.271533
Analyzer make	TEI Model 43C	Analyzer serial #	31990000000491

	before		after	
Concentration range	0-100	ppb	0-100	ppb
TRS bkg	20.9		19.1	
TRS slope	1.467		1.127	
UV Lamp	821	V	880	V
Converter Temp	850	Deg C	850	Deg C
Perm Temp	45	Deg C	45	Deg C

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	0.0	0.0	0.3	N/A
4993	79.95	79.1	79.1	1.0005
4993	39.15	39.1	37.6	1.0391
4993	9.63	9.7	9.4	1.0284
4993	0.00	0.0	0.9	As found zero
4993	79.95	79.1	86.1	As found span
			Average Correction Factor	1.0227

Calculated value of As Found Response: 86.33 ppm Percent Change of As Found: -9.1%

	before calibration		after calibration	
Auto zero	0.5	ppm	0.6	ppm
Auto span	70.0	ppm	67.7	ppm

Notes: New lamp installed. Some oscillation of lamp frequency still noted. Rebuilt sample pump with new diaphragm and flappers. Tweeked lamp voltage up to minimize noise.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter **TRS**

Air Monitoring Network **PASZA**

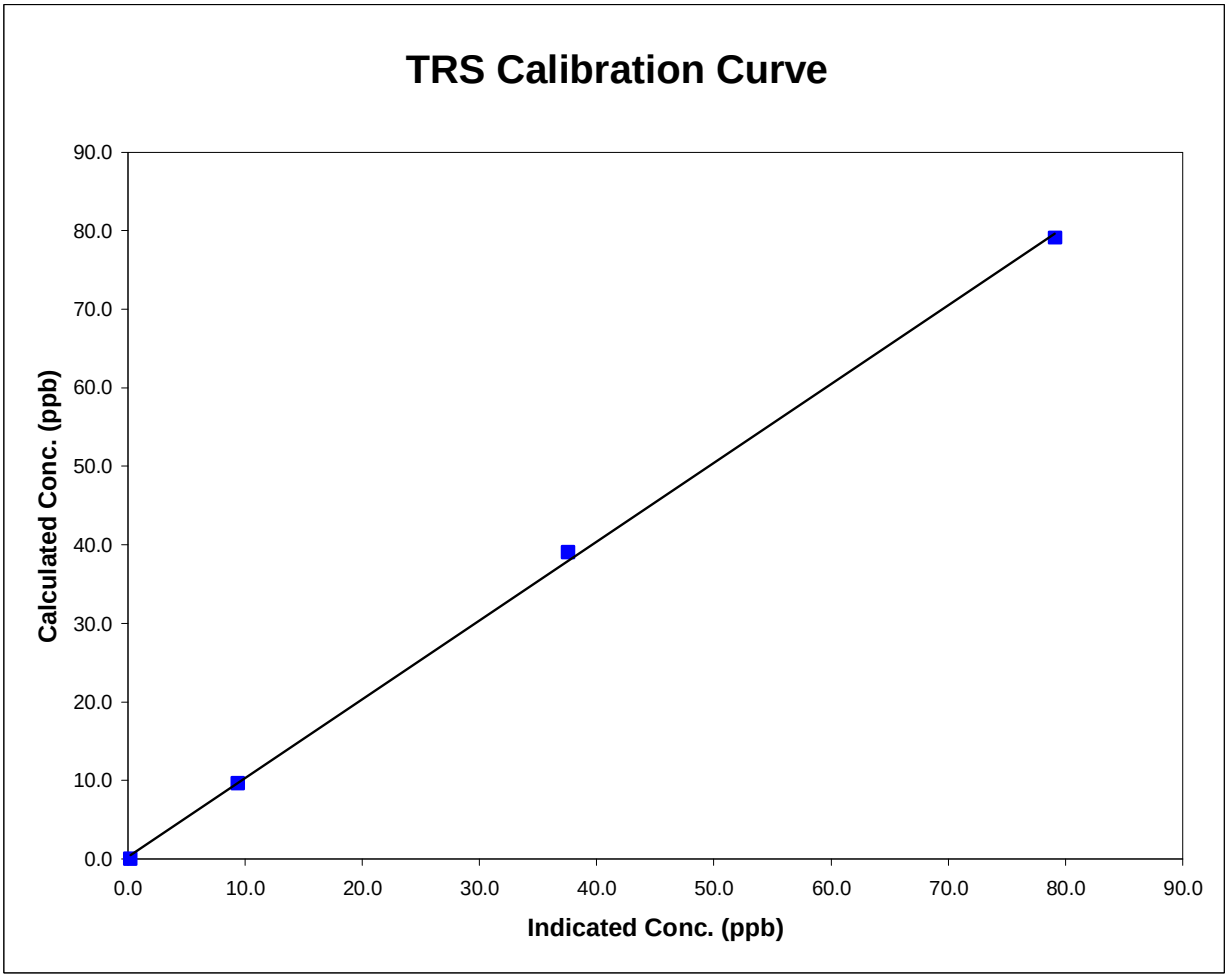
FOCUS AIR QUALITY MONITORING

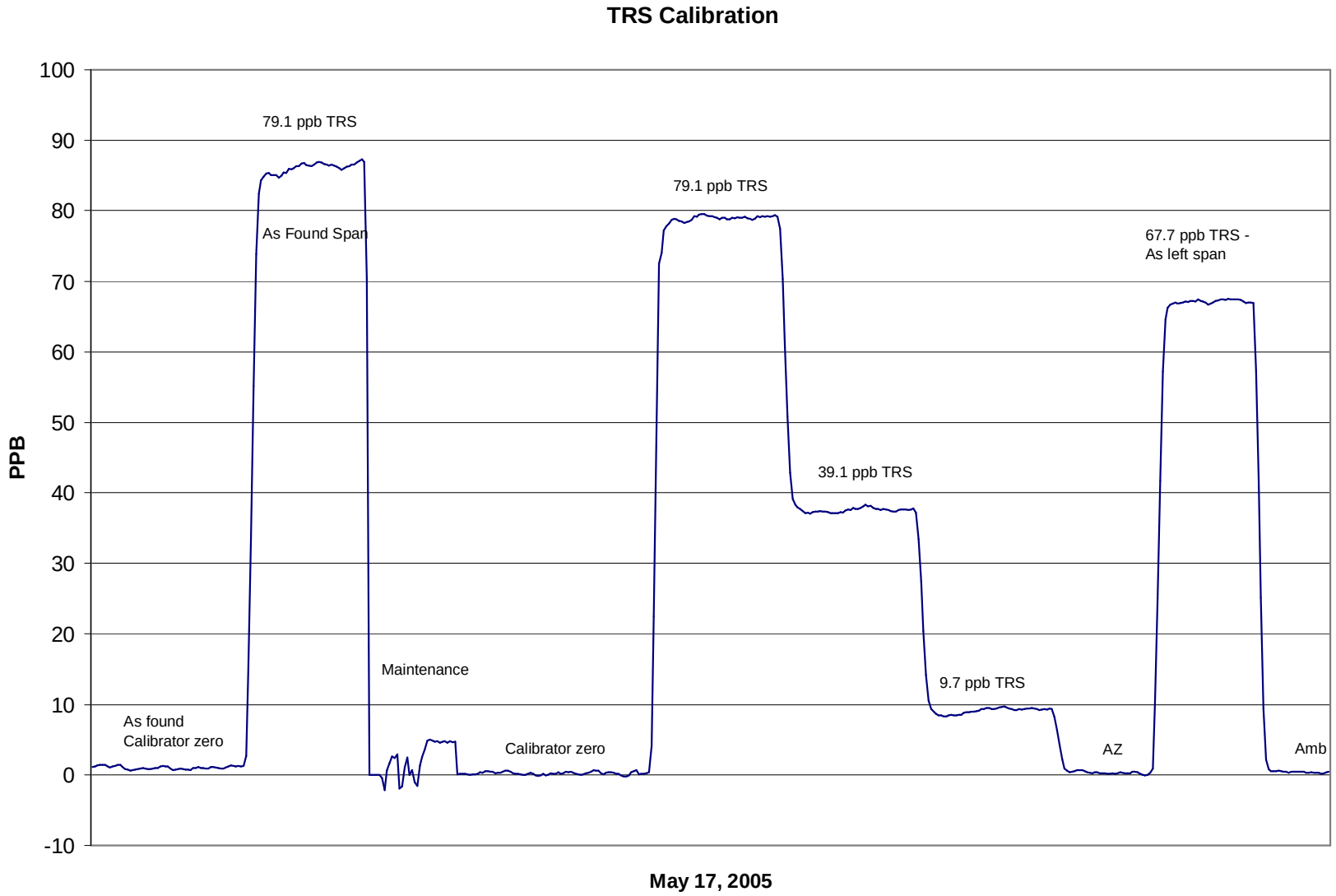
Station Information

Calibration Date	May 17, 2005	Previous Calibration	April 13, 2005
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	10:25	End Time (MST)	14:30
Analyzer make/model	TEI Model 43C	Analyzer serial #	31990000000491

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	N/A		
79.1	79.1	1.0005	Correlation Coefficient	0.999557
39.1	37.6	1.0391		
9.7	9.4	1.0284	Slope	1.003427
			Intercept	0.271533




TRS Calibration
100
90
80
70
60
50
40
30
20
10
0
-10
PPB
79.1 ppb TRS
As Found Span
79.1 ppb TRS
67.7 ppb TRS -
As left span
39.1 ppb TRS
Maintenance
9.7 ppb TRS
As found
Calibrator zero
Calibrator zero
AZ
Amb
May 17, 2005

Calibration Report

Parameter **PM2.5**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 18, 2005	Previous Calibration	April 12, 2005
Station Number	1	Station Location	Muskoseepi Park

Reason: [Routine] [Install] [Removal] [Other:]

Start Time (MST)	10:30	End Time (MST)	15:45
Barometric Pressure	0.916 ATM	Station Temperature	21.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15
	Before		After
DACS 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	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	16.67	SLPM	16.67	SLPM
Filter Load	61	%	16	%
Ko Factor	12122		12122	
Temperature	14.1	Deg C	14.1	Deg C
Pressure	0.911	ATM	0.916	ATM

Calibration Data

Parameter	Set Point	Indicated Reading (measured externally)	Tolerance	TEOM Reading
zero flow - main	0.0	0.00		0.03
zero flow - auxillary	0.0	0.00		0.02
flow recovery - main	45 - 60 Seconds	0.03	45 - 60 Seconds	40
flow recovery - aux	46 - 60 Seconds	0.02	46 - 60 Seconds	40
Temperature	measured	14.1	+/- 1.0 Deg C	14.1
Pressure	measured	0.916	+/- 1.5% Δ_{ATM}	0.916
Total Flow	16.67 SLPM	16.30		16.60
Main Flow	13.67 SLPM	13.30	+/- 1.0 SLPM	13.65
Auxillary Flow	3.0 SLPM	3.020	+/- 0.2 SLPM	3.000
Leak Check - main	0.0	0.00	<0.15 SLPM	0.03
Leak Check - aux	0.0	0.00	<0.15 SLPM	0.02
Ko Factor (w/o filter)	measured	324.868	filter weight (g)	0.11112
Ko Factor (w/ filter)	measured	232.046	% Ko difference	-0.8%

Notes: After as found flows captured performed complete analog calibration. Adjusted pressure reading; temp sensor reading OK. Performed full hardware calibration on all systems. Cleaned inlet heads.

Calibration Performed By: Kelly Baragar

Calibration Report

Parameter **SO_2**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 19, 2005	Previous Calibration	April 13, 2005
Station Number	2	Station Location	Evergreen Park

Reason: [Routine] [Install] [Removal] [Other:]

Start Time (MST)	10:03	End Time (MST)	17:20
Barometric Pressure	27.5 inches Hg	Station Temperature	21.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	2,452 ng/min	Perm-tube Expiry Date	
Correction factor	0.930606	Perm-tube Cert #	19-18743
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
DACS slope	0.005000	DACS slope	0.005000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope	0.990483	Calculated slope	0.989553
Calculated intercept	-0.601908	Calculated intercept	-1.862524

Analyzer make: API 100 — Analyzer serial #: 32

	before		after	
Concentration range	500	ppb	500	ppb
Sample Flow	530	ccm	524	ccm
UV Lamp Voltage	3400	mv	3275	mv
Lamp Ratio	97	%	93	%
Rx Cell Temp	49	Deg C	50	Deg C
PMT Temp	27	Deg C	30	Deg C
IZS Temp	40	Deg C	40	Deg C
Slope	9.76		8.85	
Intercept	158		188.5	

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	2354.4	0.0	-2.1	N/A
2530	2354.4	397.5	400.1	0.9935
5030	4680.9	199.9	209.5	0.9542
9900	9213.0	101.6	106.4	0.9546
zero	2335.8	0.0	-0.2	As Found Zero
2510	2335.8	400.7	371.7	As Found Span
			Average Correction Factor	0.9674

Calculated value of As Found Response: 367.736 ppm Percent Change of As Found: 8.2%

	before calibration		after calibration	
Auto zero	-0.1	ppm	-4.0	ppm
Auto span	200.3	ppm	241.4	ppm

Notes: Checked PMT cooler circuit. Peltier cooler seems intact; drive voltage at 11.3 VDC.
Found leak near PMT housing (forgotten during re-installation).

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter **SO2**

Air Monitoring Network **PASZA**

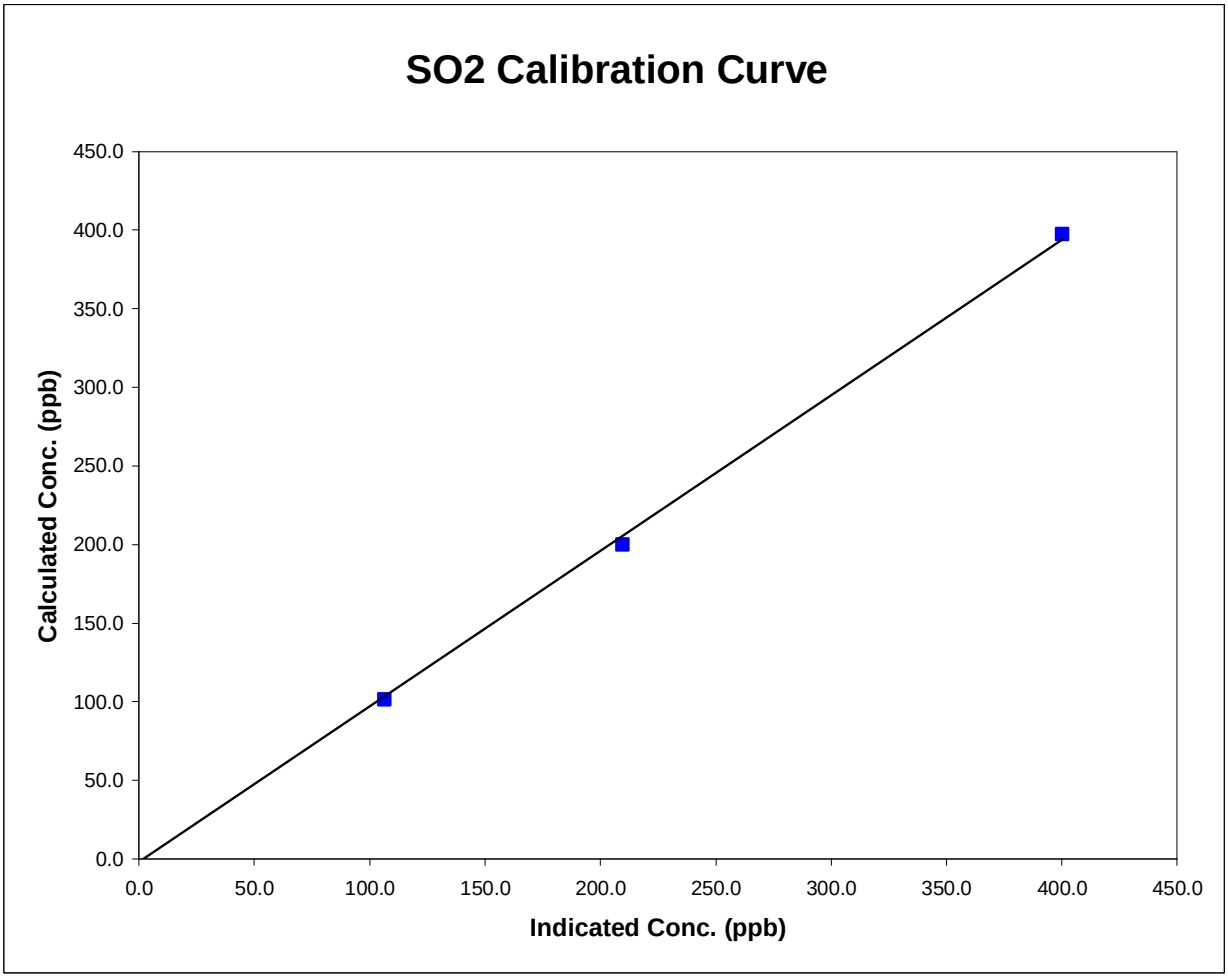
FOCUS AIR QUALITY MONITORING

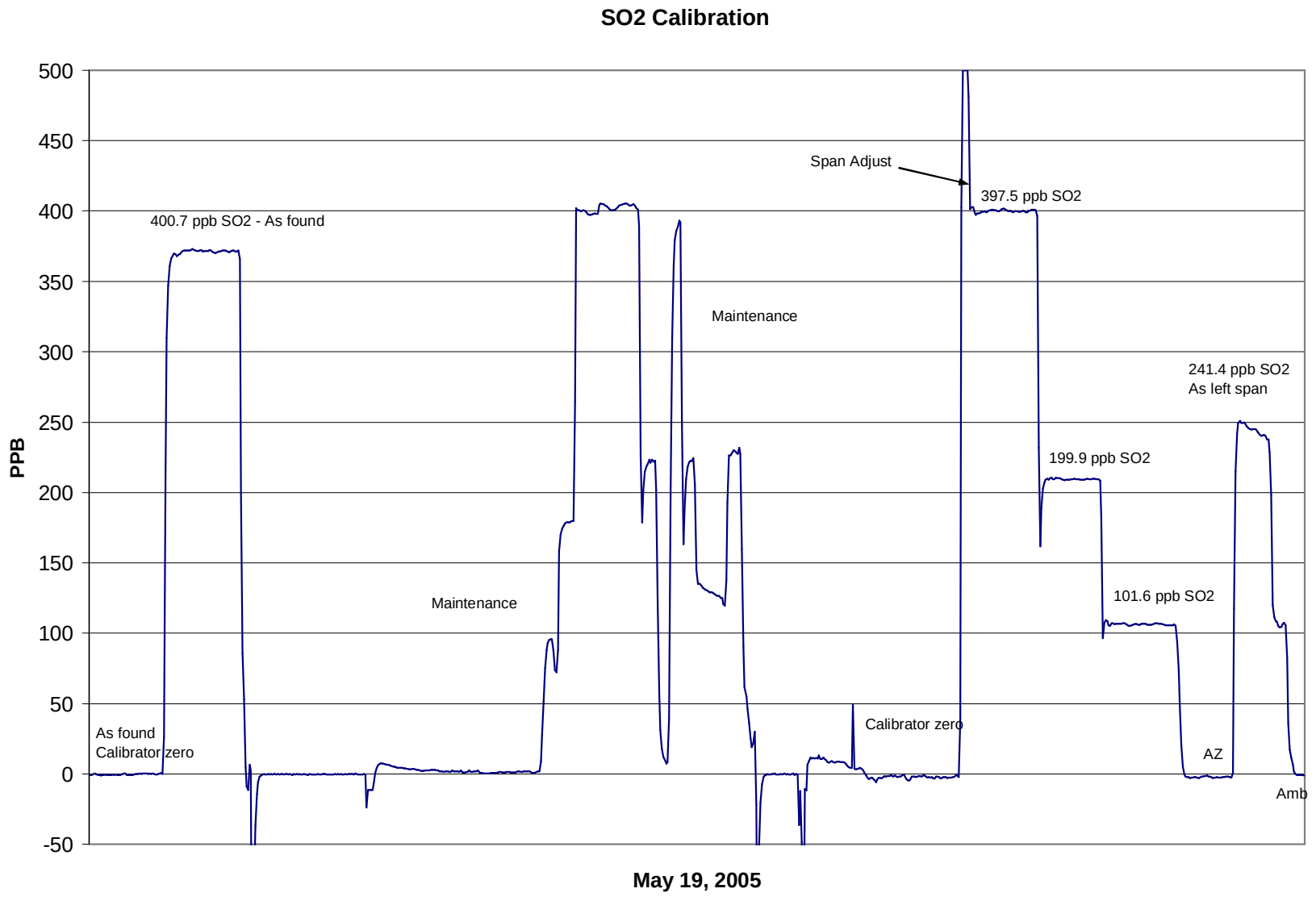
Station Information

Calibration Date	May 19, 2005	Previous Calibration	April 13, 2005
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	10:03	End Time (MST)	17:20
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	-2.1	N/A		
397.5	400.1	0.9935	Correlation Coefficient	0.999282
199.9	209.5	0.9542		
101.6	106.4	0.9546	Slope	0.989553
			Intercept	-1.862524




SO2 Calibration
500
450
400
350
300
250
200
150
100
50
0
-50
PPB
400.7 ppb SO2 - As found
Span Adjust
397.5 ppb SO2
Maintenance
241.4 ppb SO2
As left span
199.9 ppb SO2
Maintenance
101.6 ppb SO2
As found
Calibrator zero
Calibrator zero
AZ
Amb
May 19, 2005

Calibration Report

Parameter **TRS**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 19, 2005	Previous Calibration	April 13, 2005
Station Number	2	Station Location	Evergreen Park
Reason:	Routine / Install / Removal / Other:		
Start Time (MST)	10:03	End Time (MST)	12:43
Barometric Pressure	27.5 inches Hg	Station Temperature	21.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	225 ng/min	Perm-tube Expiry Date	12/10/2005
Correction factor	0.930606	Perm-tube Cert #	03-13509
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
DACS slope	0.005000	DACS slope	0.005000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope	0.998930	Calculated slope	1.008523
Calculated intercept	0.229902	Calculated intercept	0.360601
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	100	ppb	100	ppb
Background	15.6	ppb	15.6	ppb
coefficient	1.304		1.304	
Lamp Voltage	769	volts	769	volts
Chamber Temp	44.5	Deg C	44.5	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	638.1	mm Hg	638.1	mm Hg
Sample Flow	466	ccm	466	ccm
Lamp Intesity	32,000	mv	32,000	mv

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	2335.8	0.0	-0.4	N/A
2510	2335.8	69.3	68.3	1.0142
5780	5378.9	30.1	29.5	1.0198
13200	12284.0	13.2	12.8	1.0317
zero	2335.8	0.0	-0.4	As Found Zero
2510	2335.8	69.3	68.3	As Found Span
			Average Correction Factor	1.0219

Calculated value of As Found Response: 68.87 ppm Percent Change of As Found: 0.6%

	before calibration		after calibration	
Auto zero	-0.1	ppm	0.0	ppm
Auto span	63.8	ppm	81.6	ppm

Notes: No adjustments or maintenance performed.

Calibration Performed By: Kelly Baragar

Calibration Summary

Parameter **TRS**

Air Monitoring Network **PASZA**

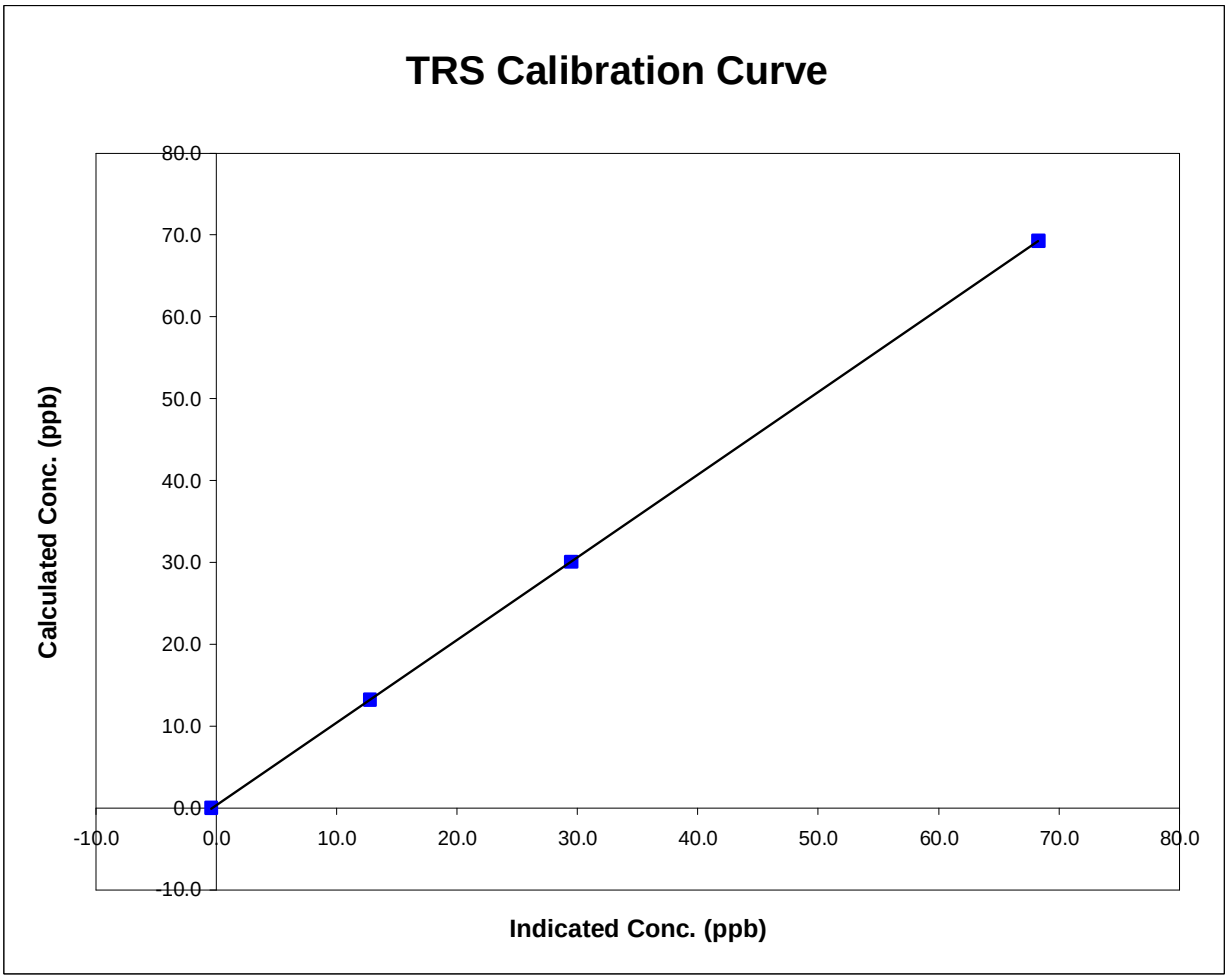
FOCUS AIR QUALITY MONITORING

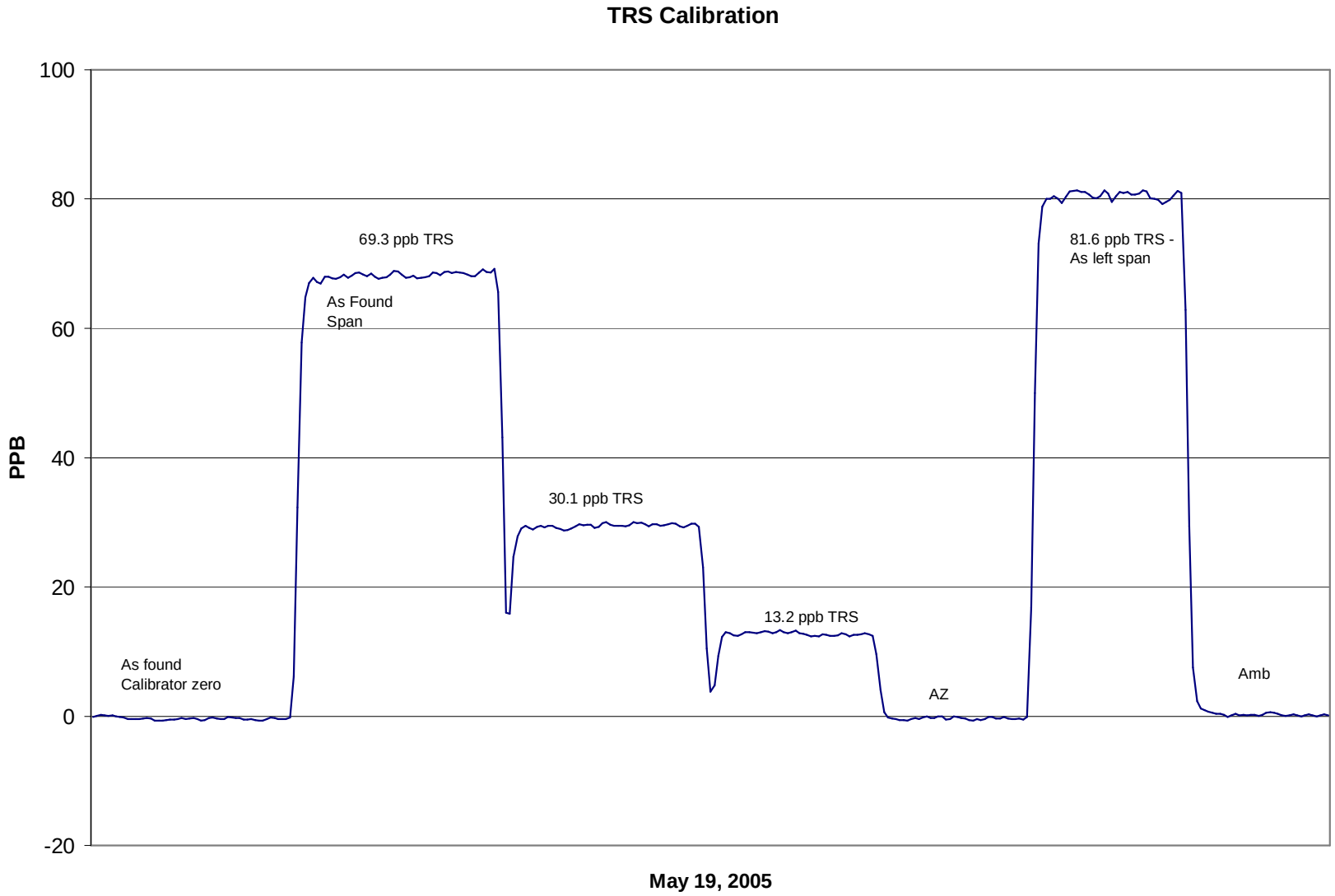
Station Information

Calibration Date	May 19, 2005	Previous Calibration	April 13, 2005
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	10:03	End Time (MST)	12:43
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.4	N/A		
69.3	68.3	1.0142	Correlation Coefficient	0.999996
30.1	29.5	1.0198		
13.2	12.8	1.0317	Slope	1.008523
			Intercept	0.360601




TRS Calibration
100
80
60
40
20
0
-20
PPB
69.3 ppb TRS
As Found
Span
30.1 ppb TRS
13.2 ppb TRS
81.6 ppb TRS -
As left span
As found
Calibrator zero
AZ
Amb
May 19, 2005

Calibration Report

Parameter **PM2.5**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 17, 2005	Previous Calibration	April 13, 2005
Station Number	1	Station Location	Muskoseepi Park
Reason:	Routine ☒	Install ☐	Removal ☐	Other: ☐
Start Time (MST)	10:04	End Time (MST)	
Barometric Pressure	0.917 ATM	Station Temperature	21.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15
	Before		After
DACS 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	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	16.67	SLPM	16.67	SLPM
Filter Load	45	%		%
Ko Factor	12122		12122	
Temperature	16.5	Deg C	14.3	Deg C
Pressure	0.908	ATM	0.917	ATM

Calibration Data

Parameter	Set Point	Indicated Reading (measured externally)	Tolerance	TEOM Reading
zero flow - main	0.0	0.00		0.02
zero flow - auxillary	0.0	0.00		0.03
flow recovery - main	45 - 60 Seconds	40.0	45 - 60 Seconds	40
flow recovery - aux	46 - 60 Seconds	40.0	46 - 60 Seconds	40
Temperature	measured	14.3	+/- 1.0 Deg C	14.3
Pressure	measured	0.917	+/- 1.5% Δ_{ATM}	0.917
Total Flow	16.67 SLPM	16.70		16.70
Main Flow	13.67 SLPM	13.70	+/- 1.0 SLPM	13.70
Auxillary Flow	3.0 SLPM	3.000	+/- 0.2 SLPM	3.000
Leak Check - main	0.0	0.03	<0.15 SLPM	0.02
Leak Check - aux	0.0	0.30	<0.15 SLPM	0.30
Ko Factor (w/o filter)	measured	NA	filter weight (g)	0.11112
Ko Factor (w/ filter)	measured	NA	% Ko difference	N/A

Notes: Performed flow audit; all flows exactly on settings. Noted temperature and pressure readings incorrect; performed hardware adjustments for temp/pressure. Leak noted; found on v-seal of filter chamber. To be replaced when part arrives. Pump restart test indicates all OK. Cleaned PM10/2.5 inlet heads.

Calibration Performed By: Kelly Baragar

Calibration Report

Parameter **SO_2**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 18, 2005	Previous Calibration	April 14, 2005
Station Number	3	Station Location	Smoky Heights School

Reason: [Routine] [Install] [Removal] [Other:]

Start Time (MST)	10:18	End Time (MST)	14:45
Barometric Pressure	27.23 inches Hg	Station Temperature	21.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	2,452 ng/min	Perm-tube Expiry Date	
Correction factor	0.922476	Perm-tube Cert #	19-18743
DACS make	Focus AP1000	DACS serial No.	45272
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
DACS slope	0.005000	DACS slope	0.005000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope	0.992017	Calculated slope	1.008286
Calculated intercept	3.281156	Calculated intercept	-1.434974

Analyzer make	API 100A	Analyzer serial #	212

	before		after	
Concentration range	500	ppb	500	ppb
Sample Flow	565	ccm	565	ccm
UV Lamp Voltage	3629	mv	3590	mv
Lamp Ratio	100	%	99	%
Rx Cell Temp	51.1	Deg C	49.8	Deg C
PMT Temp	7.1	Deg C	7.1	Deg C
IZS Temp	45.2	Deg C	45.0	Deg C
Slope	0.832		0.834	
Offset	18.2		20.6	

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	2306.2	0.0	-0.5	N/A
2500	2306.2	405.8	402.5	1.0084
6095	5622.5	166.5	170.0	0.9792
9020	8320.7	112.5	112.9	0.9962
zero	2306.2	0.0	-4.4	As Found Zero
2500	2306.2	405.8	403.0	As Found Span
			Average Correction Factor	0.9946

Calculated value of As Found Response: 407.399 ppm Percent Change of As Found: -0.4%

	before calibration		after calibration	
Auto zero	-4.5	ppm	-2.1	ppm
Auto span	246.2	ppm	243.0	ppm

Notes: small zero adjust was made, no span adjust. The filter was clean and not replaced.
9020 was the highest dilution flow acheivable with the small zero air system

Calibration Performed By: Gary Cross

Calibration Summary

Parameter **SO2**

Air Monitoring Network **PASZA**

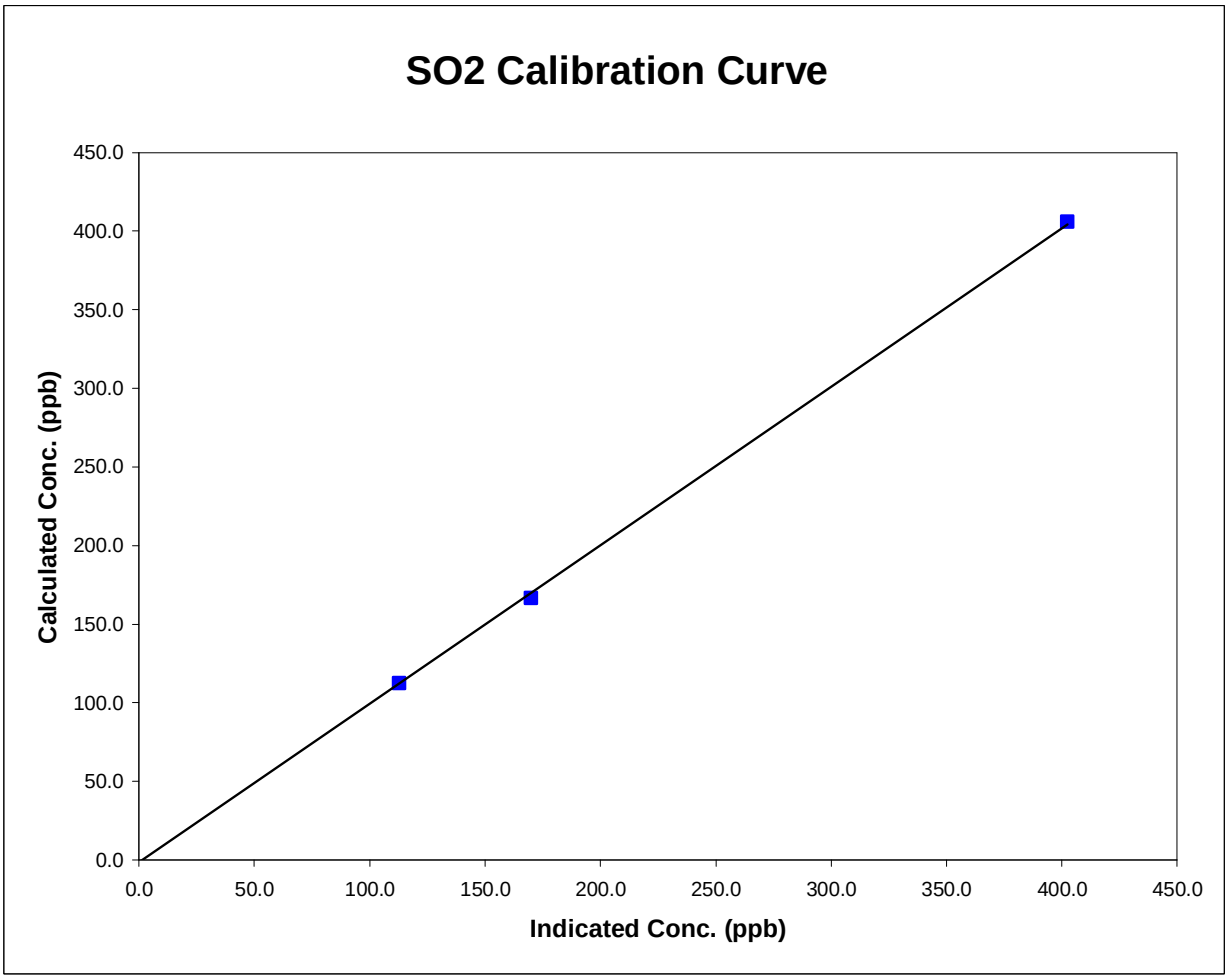
FOCUS AIR QUALITY MONITORING

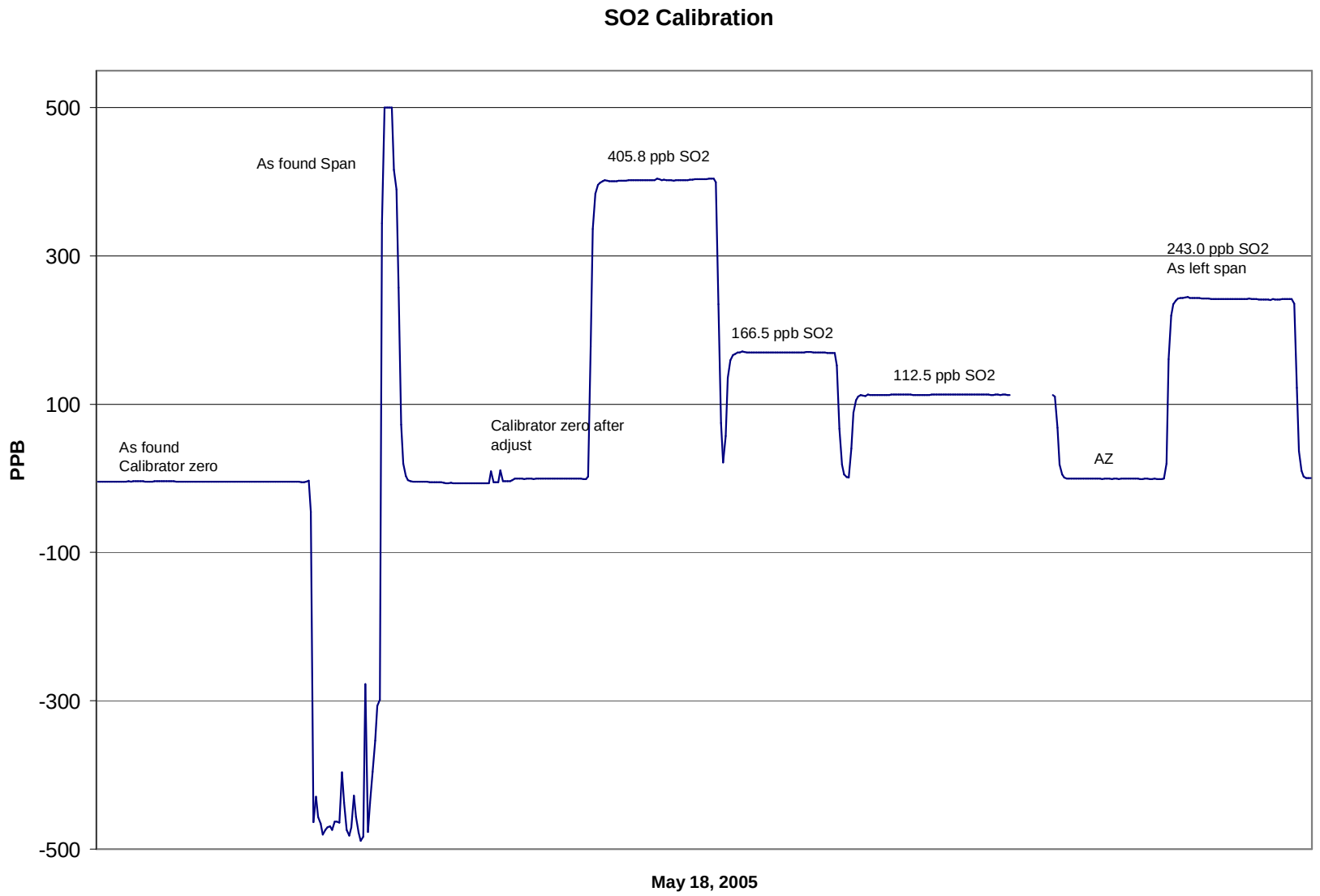
Station Information

Calibration Date	May 18, 2005	Previous Calibration	April 14, 2005
Station Number	3	Station Location	Smoky Heights School
Start Time (MST)	10:18	End Time (MST)	14:45
Analyzer make/model	API 100A	Analyzer serial #	212

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.5	N/A		
405.8	402.5	1.0084	Correlation Coefficient	0.999791
166.5	170.0	0.9792		
112.5	112.9	0.9962	Slope	1.008286
			Intercept	-1.434974




SO2 Calibration
500
300
100
-100
-300
-500
PPB
As found Span
405.8 ppb SO2
243.0 ppb SO2
As left span
166.5 ppb SO2
112.5 ppb SO2
Calibrator zero after
adjust
As found
Calibrator zero
AZ
May 18, 2005

Calibration Report

Parameter **TRS**

Air Monitoring Network **PASZA**

FOCUS AIR QUALITY MONITORING

Station Information

Calibration Date	May 18, 2005	Previous Calibration	N/A
Station Number	3	Station Location	Smoky Heights School
Reason:	Routine ☐ Install ☐	Removal ☐	Other: ☐
Start Time (MST)	10:18	End Time (MST)	
Barometric Pressure	27.23 inches Hg	Station Temperature	21.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	225 ng/min	Perm-tube Expiry Date	12/10/2005
Correction factor	0.922476	Perm-tube Cert #	03-13509
DACS make	Focus AP1000	DACS serial No.	45272
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
DACS slope	0.001000	DACS slope	0.001000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope		Calculated slope	1.032342
Calculated intercept		Calculated intercept	-0.392376
Analyzer make	TEI Model 43C	Analyzer serial #	0436610004

	before		after	
Concentration range	100	ppb	100	ppb
Background	11.2	ppb	9.9	ppb
coefficient	1.193		1.193	
Lamp Voltage	781	volts	780	volts
Chamber Temp	43.8	Deg C	43.7	Deg C
Perm Gas Temp	45.0	Deg C	45.0	Deg C
Pressure	631.5	mm Hg	631.3	mm Hg
Sample Flow	463	ccm	463	ccm
Lamp Intesity	32,000	mv	32,000	mv

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	2306.2	0.0	-0.2	N/A
2500	2306.2	70.1	67.9	1.0325
6095	5622.5	28.8	29.0	0.9909
9020	8320.7	19.4	19.4	1.0029
zero	2306.2	0.0	-1.2	As Found Zero
2500	2306.2	70.1	64.9	As Found Span
			Average Correction Factor	1.0087

Calculated value of As Found Response: NA ppm Percent Change of As Found: NA

	before calibration		after calibration	
Auto zero	-1.7	ppm	-0.6	ppm
Auto span	61.2	ppm	64.8	ppm

Notes: small zero adjust was made, no span adjust. The filter was clean and not replaced.
9020 was the highest dilution flow acheivable with the small zero air system

Calibration Performed By: Gary Cross

Calibration Summary

Parameter **TRS**

Air Monitoring Network **PASZA**

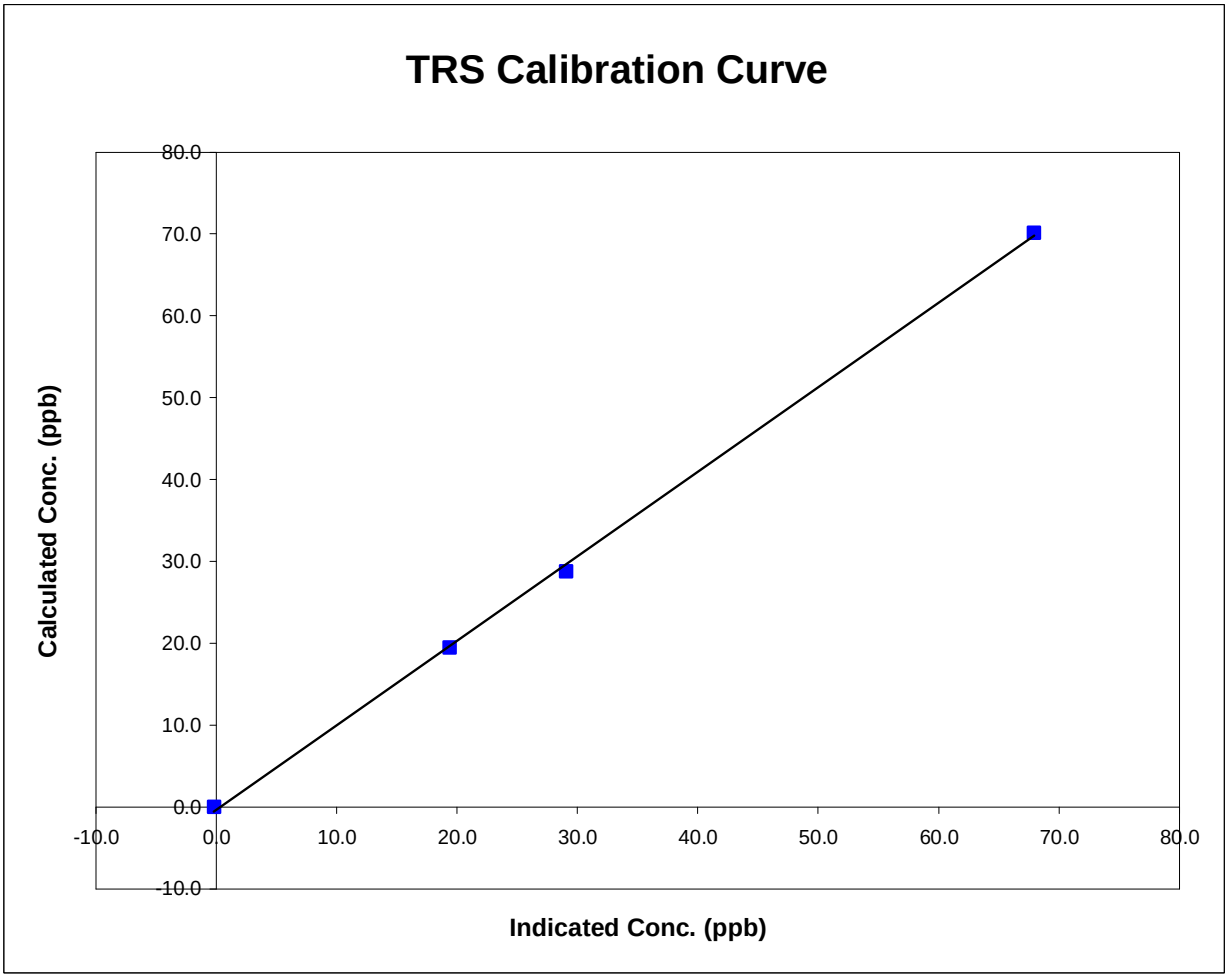
FOCUS AIR QUALITY MONITORING

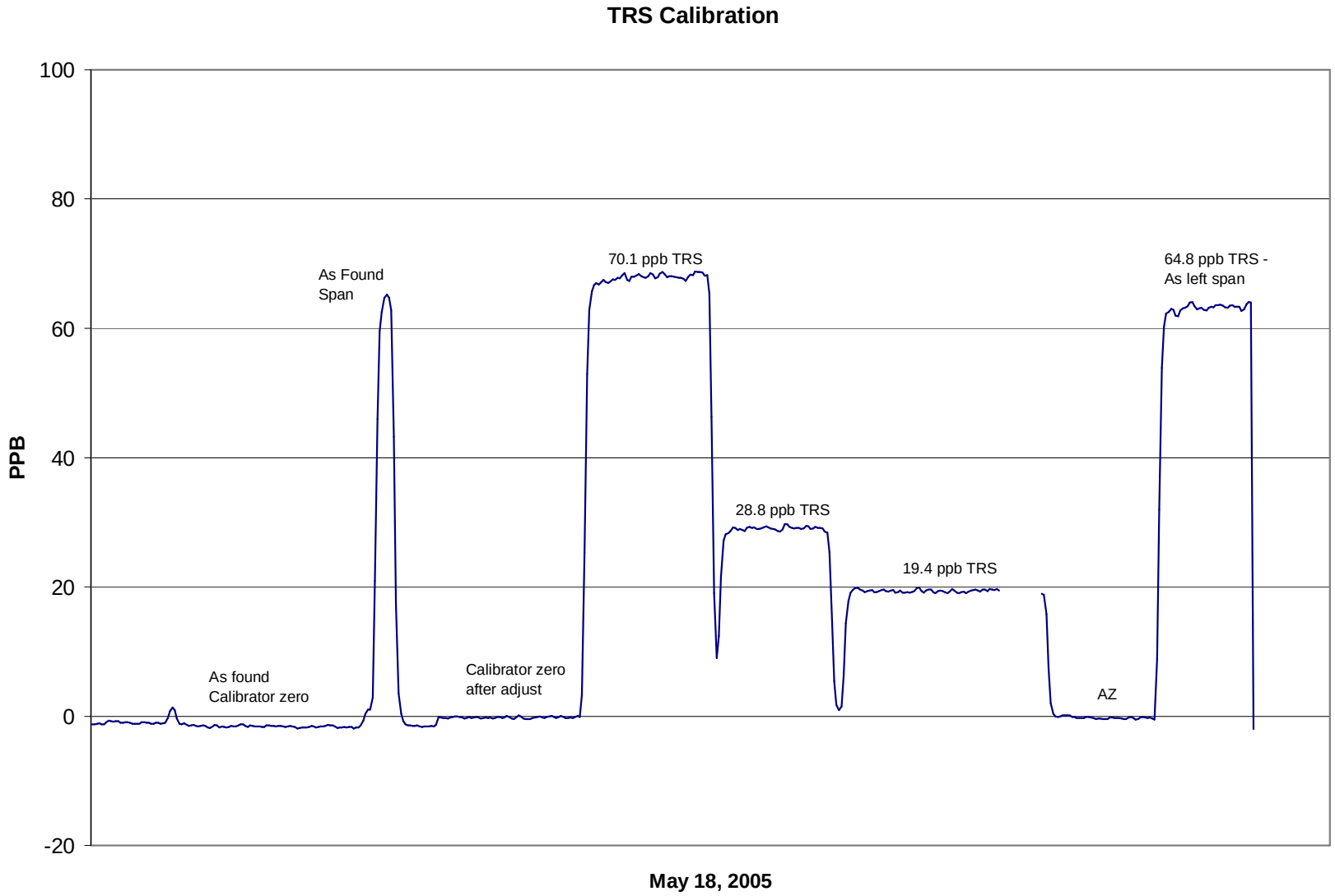
Station Information

Calibration Date	May 18, 2005	Previous Calibration	N/A
Station Number	3	Station Location	Smoky Heights School
Start Time (MST)	10:18	End Time (MST)	0:00
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610004

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.2	N/A		
70.1	67.9	1.0325	Correlation Coefficient	0.999542
28.8	29.0	0.9909		
19.4	19.4	1.0029	Slope	1.032342
			Intercept	-0.392376




TRS Calibration
100
80
60
40
20
0
-20
PPB
As found
Calibrator zero
As Found
Span
Calibrator zero
after adjust
70.1 ppb TRS
28.8 ppb TRS
19.4 ppb TRS
AZ
64.8 ppb TRS -
As left span
May 18, 2005