



PEACE AIRSHED ZONE ASSOCIATION

Air Quality Monitoring Network

April 2004

Prepared by



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

Re: Peace Airshed Zone Association – April PASZA Ambient Air Report

Enclosed is PASZA Ambient Monitoring Report for the month of **April 2004**.

Continuous Monitoring – Henry Pirker Station (Grande Prairie)

Included in this report is a summary of the, monthly continuous sampling, detailed hourly average reports and multipoint calibration reports of all instruments. The measured ambient air quality was within the Provincial and Federal guidelines with no exceedences recorded. There were no significant events leading to emergency response for the month of April. All equipment operated above 90% uptime during the month of April.

Passive Monitoring – 43 Stations throughout the PASZA zone:

The SO₂ passive located in Wanham (#19) was exposed for two months. There were no damaged or missing samples for the month and no exceedences of the Provincial Air Quality guidelines.

- Monthly average concentrations for SO₂ passives ranged from 0.1 ppb to 0.5 ppb.
- Monthly average concentrations for NO₂ passives ranged from 0.3 ppb to 8.5 ppb.
- Monthly average concentrations for O₃ passives ranged from 36.6 ppb to 51.8 ppb.

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

On Behalf of the,
Peace Airshed Zone Association

Kevin Warren
PASZA Technical Program Manager

Kevin McCullum, M.Sc., P.Eng.
AQM Environmental Engineer

April 2004 Monthly Overall Summary Report

Ambient Air Quality Data

Apr-2004 Peace Airshed Zone Association							Maximum Recorded Values						
							1-hr				24-hr		
Pollutant (units)	Guidelines		Station	Monthly Average	Exceedence		Conc	Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	Operational Time (%)
	1-hr	24-hr			1-hr	24-hr							
SO ₂ (ppb)	172	57	Henry Pirker	0.5	0	0	3.4	Apr-06	8.9	E	1.6	Apr-15	98.9%
NO (ppb)			Henry Pirker	2.9	0	0	102.5	Apr-23	2.0	ENE	13.6	Apr-03	99.6%
NO ₂ (ppb)	212	106	Henry Pirker	7.9	0	0	45.4	Apr-07	3.6	NNW	21.9	Apr-03	99.6%
NO _x (ppb)			Henry Pirker	10.9	0	0	138.2	Apr-23	2.0	ENE	35.9	Apr-03	99.6%
O ₃ (ppb)	82		Henry Pirker	35.4	0	0	60.2	Apr-30	4.4	W	48.6	Apr-04	99.7%
CO (ppm)	13		Henry Pirker	0.30	0	0	1.32	Apr-05	4.1	ENE	0.56	Apr-21	99.6%
THC (ppm)			Henry Pirker	2.06	0	0	3.30	Apr-03	2.0	SSE	2.49	Apr-10	99.6%
TRS (ppb)			Henry Pirker	0.4	0	0	0.8	Apr-22	4.6	SE	0.4	Apr-21	99.7%
PM _{2.5} (µg/m ³)		30 ^a	Henry Pirker	4.0	0	0	34.7	Apr-23	2.0	ENE	10.6	Apr-03	99.2%
RH (%)			Henry Pirker	55.1									99.7%
SR (W/m ²)			Henry Pirker	195.0									99.7%
Temp (°C)			Henry Pirker	6.3									99.7%
WSPD v (km/hr)			Henry Pirker	5.2									99.3%
WSPD s (km/hr)			Henry Pirker	11.1									99.3%
WDIR (Deg)			Henry Pirker	E*									99.3%

Note: ^a the 24-hr Canada Wide Standard level is considered as an absolute value

* Wind Direction is the predominate direction for the Month

Continuous Monitoring

Ambient Air Monitoring Network

Henry Pirker Station

General Station Issues

Data was missing for two hours during the month for all parameters, April 22 from 16:00 to 17:00 due to less than 75% data capture. This was caused by incomplete data transfer to the central site. A power failure was also observed on April 12 which resulted in some of the analyzers losing that hour due to stabilization time.

Parameter	Make	Model	Notes
SO ₂	TECO	43	Six hours of data were lost on April 4 & 5 due to excessive instrument drift. The analyzer was replaced with a TECO 43A on April 21 to rectify this problem.
NOx/NO/NO ₂	TECO	42	One hour of data was lost on April 12 due to stabilization time after the power failure
O ₃	API	400	No operational problems observed
CO	TECO	48	One hour of data was lost on April 12 due to stabilization time after the power failure
THC	TEI	51-CLT	One hour of data was lost on April 22 at 15:00 to 16:00 due to the change of the Hydrogen cylinder
TRS	TEI	42C	No operational problems observed
PM _{2.5}	R&P	1400AB	Two hours were lost during the month due to drift below the AENV guideline. Two hours were lost on April 12 due to stabilization time.
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 - Henry Pirker AQI Monthly Summary

Station: Henry Pirker

Station Owner: PASZA

Air Quality Index (AQI)

Monitoring Dates: April 1, 2004 to May 1, 2004

Summary

Number of 1-hr Good Readings:	585
Number of 1-hr Fair Readings:	91
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Percentile	99	95	75	50	25	5	1
	30.9	28.6	23.1	18.9	15.1	6.4	3.8

Alberta's Air Quality Index

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1-Apr-04	16	15	A	9	7	8	8	8	12	19	23	24	26	28	28	29	28	24	20	18	16	17	18	19
2-Apr-04	18	18	A	18	14	11	8	8	10	15	19	22	25	27	28	30	28	25	21	16	16	21	20	14
3-Apr-04	6	4	A	3	6	7	8	12	13	11	14	20	21	23	23	25	28	25	18	16	19	15	11	7
4-Apr-04	18	23	A	30	28	26	25	25	26	26	27	27	27	27	28	29	29	28	26	25	23	17	16	17
5-Apr-04	13	13	A	5	8	9	11	13	9	14	21	25	28	30	31	31	28	29	23	18	18	24	18	15
6-Apr-04	19	20	A	17	16	14	7	11	21	21	23	27	28	28	28	29	30	30	29	16	13	17	19	20
7-Apr-04	20	20	A	21	20	17	13	10	15	19	18	18	20	23	23	23	25	22	23	13	19	14	16	14
8-Apr-04	16	13	A	18	13	9	6	11	16	22	24	25	27	28	28	29	28	27	26	19	14	10	10	7
9-Apr-04	7	5	A	11	8	7	11	14	16	17	19	23	27	29	27	30	30	29	28	20	22	17	14	17
10-Apr-04	11	6	A	3	3	4	4	5	8	16	21	23	25	26	26	26	25	24	23	17	19	21	17	18
11-Apr-04	17	16	A	12	7	5	8	11	11	16	18	22	22	22	21	21	21	21	21	19	17	16	17	17
12-Apr-04	16	15	A	16	15	16	14	18	20	20	19	18	18	18	19	19	P	18	18	18	19	19	19	14
13-Apr-04	14	16	A	18	18	18	17	18	18	18	18	18	20	21	21	21	21	20	20	20	19	19	18	18
14-Apr-04	17	18	A	18	18	17	15	16	17	17	18	19	20	18	19	18	18	19	19	20	20	20	20	20
15-Apr-04	20	20	A	21	20	19	19	19	20	21	22	23	22	23	23	23	23	23	23	22	21	21	22	21
16-Apr-04	21	22	A	20	18	9	6	11	17	21	22	23	24	24	25	25	24	24	24	21	16	16	19	19
17-Apr-04	19	18	A	16	8	4	10	11	11	16	17	17	21	23	24	24	24	24	24	21	15	9	10	8
18-Apr-04	6	6	A	5	4	3	5	6	5	5	10	19	22	23	22	23	23	22	20	18	19	17	18	17
19-Apr-04	17	17	A	15	15	13	9	10	17	21	25	27	28	29	29	29	29	29	25	21	18	17	17	16
20-Apr-04	14	11	A	11	5	4	6	8	8	14	20	23	27	26	28	30	31	31	25	21	16	17	17	18
21-Apr-04	10	8	A	4	4	4	6	8	9	C	C	C	C	C	C	C	C	C	28	25	20	19	21	19
22-Apr-04	14	13	13	A	A	9	7	10	21	21	24	26	27	29	30	30	N	25	24	18	10	13	15	16
23-Apr-04	18	20	20	A	16	12	15	27	25	12	13	22	22	N	23	23	24	24	25	26	25	24	22	22
24-Apr-04	22	21	A	21	21	20	19	21	22	22	23	23	24	24	25	24	24	23	23	22	21	19	20	19
25-Apr-04	19	A	20	17	18	19	18	18	20	22	23	24	25	26	26	25	24	23	23	23	21	20	16	18
26-Apr-04	A	17	17	17	11	8	6	8	10	14	17	19	19	18	19	19	18	19	20	19	17	18	19	A
27-Apr-04	16	13	14	20	24	25	21	20	20	20	19	21	23	24	23	22	21	20	21	19	18	17	A	9
28-Apr-04	11	8	7	9	9	8	6	11	14	18	19	22	23	24	25	23	23	23	22	19	13	A	9	10
29-Apr-04	7	10	10	8	5	4	6	9	18	22	23	24	24	26	26	27	28	27	24	22	A	12	13	10
30-Apr-04	14	17	17	17	16	13	13	16	17	18	23	26	30	31	31	32	32	33	31	A	20	19	20	21

PASZA - Henry Pirker Sulphur Dioxide Monthly Summary

Station: Henry Pirker

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Station Owner: PASZA

 Monitoring Dates: April 1, 2004 to May 1, 2004
 Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	3.4 ppb 6-Apr 10:00 11:00
Maximum 24-hr Average:	1.6 ppb 15-Apr

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

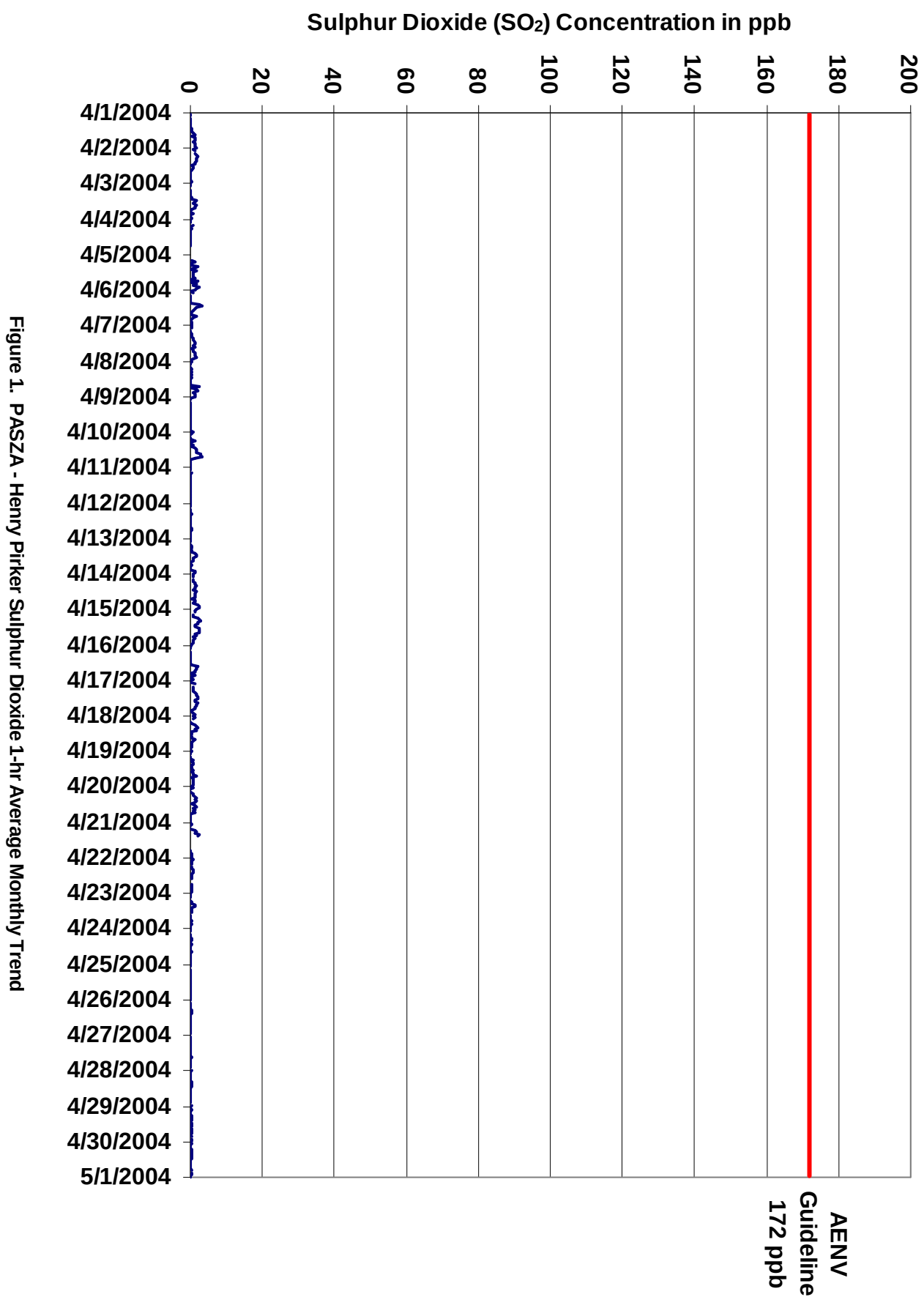
AIC Time:					32 hrs		Operational Time:		671 hrs	
Calibration Time:					9 hrs		AMD Operational Uptime:		98.9%	
Percentile	99	95	75	50	25	5	1	Average		
	2.6	1.8	0.8	0.2	0.0	0.0	0.0	0.5 ppb		

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-Apr-04	0	0	A	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1	1	1	1	2	0.6	1.7
2-Apr-04	1	1	A	1	2	2	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.8	1.9
3-Apr-04	0	0	A	0	0	0	0	0	1	0	2	1	1	2	1	1	0	0	0	1	0	0	0	0	0.4	1.7
4-Apr-04	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	D	D	0	D	D	D	0.1	0.7
5-Apr-04	D	0	A	1	1	0	0	2	1	0	1	1	1	1	1	0	2	1	2	1	2	2	1	0.9	2.3	
6-Apr-04	0	1	A	0	0	0	0	0	0	3	3	2	1	1	0	0	1	1	1	1	0	1	1	0	0.7	3.4
7-Apr-04	0	1	A	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	2	1	0	0	0.8	1.6	
8-Apr-04	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	2	1	1	1	1	0.6	2.5
9-Apr-04	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	0.7
10-Apr-04	1	0	A	0	0	1	0	0	1	0	1	1	2	2	3	3	3	1	0	0	0	0	0	0	0.8	3.3
11-Apr-04	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
12-Apr-04	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6
13-Apr-04	0	0	A	0	1	0	0	0	0	1	2	2	1	1	1	0	0	0	0	0	0	1	1	1	0.5	1.6
14-Apr-04	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	2	1	1.3	2.6
15-Apr-04	1	1	A	1	1	2	3	3	2	2	1	1	2	2	3	2	1	2	1	1	1	1	1	0	1.6	2.7
16-Apr-04	0	0	A	0	0	0	0	0	0	0	0	0	0	2	2	2	1	1	0	1	1	0	1	0	0.5	1.9
17-Apr-04	0	1	A	1	1	1	1	1	1	2	2	2	1	1	2	2	2	1	1	1	0	1	1	1	1.1	2.0
18-Apr-04	1	1	A	0	0	1	1	2	1	1	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0.7	1.9
19-Apr-04	0	0	A	0	0	1	1	1	1	0	0	0	1	0	1	1	2	0	1	1	1	1	1	0	0.6	1.7
20-Apr-04	1	0	A	0	1	1	2	1	1	1	0	1	2	1	1	1	1	0	0	0	0	0	0	0	0.7	1.7
21-Apr-04	0	0	A	0	1	2	1	2	2	C	C	C	C	C	C	C	C	C	0	0	0	0	0	0	N	2.4
22-Apr-04	1	0	0	1	A	1	0	1	1	1	1	0	0	0	A	0	N	0	0	0	0	0	1	0	0.4	0.7
23-Apr-04	0	0	0	A	0	0	0	1	1	0	0	0	0	N	0	0	0	0	0	0	0	0	0	0	0.3	1.4
24-Apr-04	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2
25-Apr-04	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
26-Apr-04	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	0.5
27-Apr-04	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-Apr-04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.1	0.3
29-Apr-04	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.6
30-Apr-04	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	0.3
																									N	0.0
Hourly Avg	0.3	0.3	N	0.2	0.3	0.5	0.5	0.7	0.7	0.6	0.7	0.6	0.6	0.6	0.7	0.6	0.7	0.6	0.4	0.5	0.3	0.5	0.5	0.4		
Hourly Max	1.3	1.2	0.3	1.3	1.8	2.1	2.6	2.7	2.2	2.5	3.4	2.0	2.3	2.4	2.7	2.8	3.3	2.2	1.4	1.9	1.9	2.6	2.3	1.7		



Station: Henry Pirker

HOURLY MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004
Summary

Maximum 1-hr Value:	6.5	ppb	10-Apr	17:00 18:00
Maximum 24-hr Value:	4.0	ppb	15-Apr	

AIC Time:	32 hrs	Operational Time:	671 hrs					
Calibration Time:	9 hrs	AMD Operational Uptime:	98.9%					
Percentile	99	95	75	50	25	5	1	Average
	5.2	4.5	3.2	2.2	0.9	0.6	0.4	2.2 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-Apr-04	2	2	A	2	0	0	1	1	2	1	3	3	3	4	3	3	4	3	4	4	3	4	4	5	2.6	4.7
2-Apr-04	4	3	A	4	4	4	4	4	4	3	3	2	3	3	3	2	2	2	2	3	2	2	2	2	3.0	4.3
3-Apr-04	1	3	A	2	2	4	2	3	3	3	5	4	4	4	4	3	3	2	2	3	3	2	3	4	2.9	4.5
4-Apr-04	2	2	A	4	2	2	1	2	2	0	1	1	0	1	1	0	0	D	D	D	2	D	D	D	1.4	4.0
5-Apr-04	D	3	A	2	3	3	1	5	3	4	4	4	3	3	4	4	3	5	3	5	3	5	5	4	3.6	5.1
6-Apr-04	3	4	A	2	2	0	1	1	3	5	5	4	4	3	3	3	3	3	3	2	2	3	2	2	2.8	5.4
7-Apr-04	3	3	A	2	2	3	3	3	3	4	3	3	3	4	2	3	4	3	4	3	3	3	2	3	3.0	4.0
8-Apr-04	2	3	A	2	3	3	2	4	2	3	3	2	2	2	2	2	5	3	4	5	4	4	3	3	2.8	4.8
9-Apr-04	2	2	A	1	2	2	1	2	2	1	2	2	2	2	3	3	2	3	2	2	2	2	3	4	2.1	3.6
10-Apr-04	2	1	A	2	3	4	2	2	3	3	4	4	4	4	5	5	5	6	0	2	1	2	1	2	2.9	6.5
11-Apr-04	2	2	A	2	1	2	2	2	1	3	2	2	2	1	2	2	2	3	2	1	2	2	2	2	1.9	3.1
12-Apr-04	2	1	A	1	1	2	4	2	3	2	2	2	1	1	1	2	3	2	2	3	1	3	2	2	1.9	3.6
13-Apr-04	1	2	A	3	4	3	2	3	2	5	5	4	3	3	4	3	3	2	2	2	3	4	3	3	3.0	5.5
14-Apr-04	3	3	A	2	3	5	4	4	3	3	4	3	3	4	4	3	2	4	5	3	5	5	4	4	3.6	4.9
15-Apr-04	4	3	A	3	4	5	5	5	5	4	4	4	5	6	6	5	4	4	3	3	3	3	3	2	4.0	5.6
16-Apr-04	2	2	A	2	2	2	3	4	2	2	2	3	5	4	4	3	5	4	3	4	3	3	3	3	3.0	4.7
17-Apr-04	3	3	A	3	2	4	4	3	3	4	4	4	4	3	4	4	4	4	4	3	2	4	3	3	3.5	4.4
18-Apr-04	4	4	A	2	4	3	4	4	3	4	3	2	2	3	2	4	4	2	3	3	3	3	2	2	3.1	4.5
19-Apr-04	1	1	A	2	2	3	3	3	4	3	3	2	3	3	3	3	5	2	3	3	2	3	3	3	2.8	5.3
20-Apr-04	3	3	A	3	3	3	3	4	4	3	3	3	3	3	3	3	3	3	2	3	1	2	2	2	2.8	4.1
21-Apr-04	2	3	A	3	3	5	4	5	4	C	C	C	C	C	C	C	C	C	1	1	1	1	1	1	N	5.0
22-Apr-04	2	1	1	1	A	1	1	1	1	2	1	1	1	1	A	1	N	1	1	1	1	1	1	1	1.1	1.7
23-Apr-04	1	1	1	A	1	1	1	2	3	1	1	1	1	N	1	1	1	1	1	1	1	1	1	1	0.9	2.5
24-Apr-04	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.7	1.0
25-Apr-04	1	A	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	0	1	0.6	0.8
26-Apr-04	A	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	A	0.7	1.3
27-Apr-04	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.7	1.0
28-Apr-04	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.7	1.0
29-Apr-04	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.9	1.3
30-Apr-04	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.7	0.9
																									N	0.0
Hourly Avg	1.9	2.1	N	1.9	2.0	2.2	2.1	2.5	2.4	2.4	2.5	2.2	2.3	2.3	2.4	2.4	2.6	2.3	2.1	2.2	2.0	2.3	2.2	2.2		
Hourly Max	3.9	4.5	0.9	4.0	4.3	4.8	4.7	5.0	5.1	5.2	5.5	4.4	4.8	5.5	5.6	5.4	5.3	6.5	4.8	4.8	4.6	4.9	4.8	4.7		

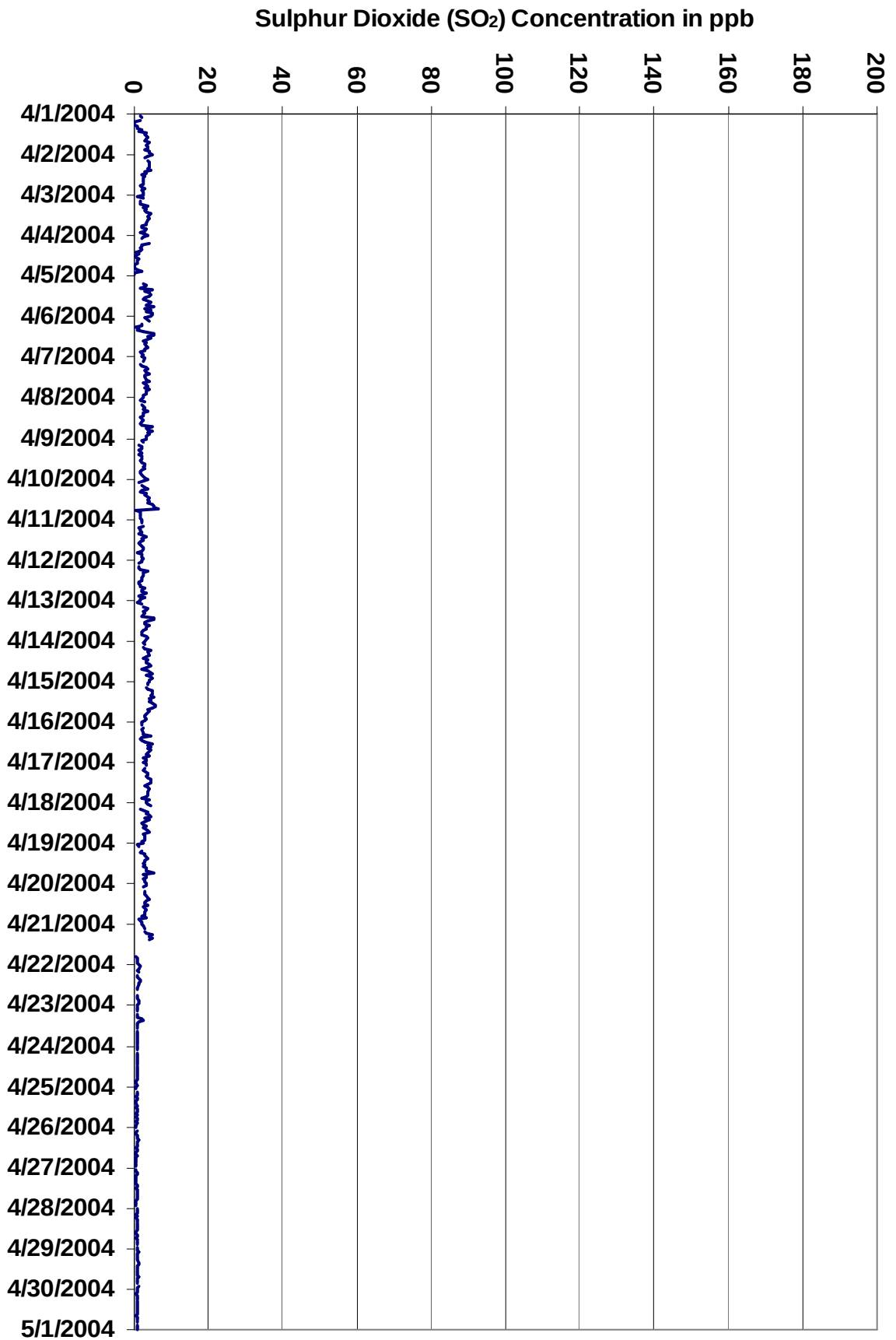
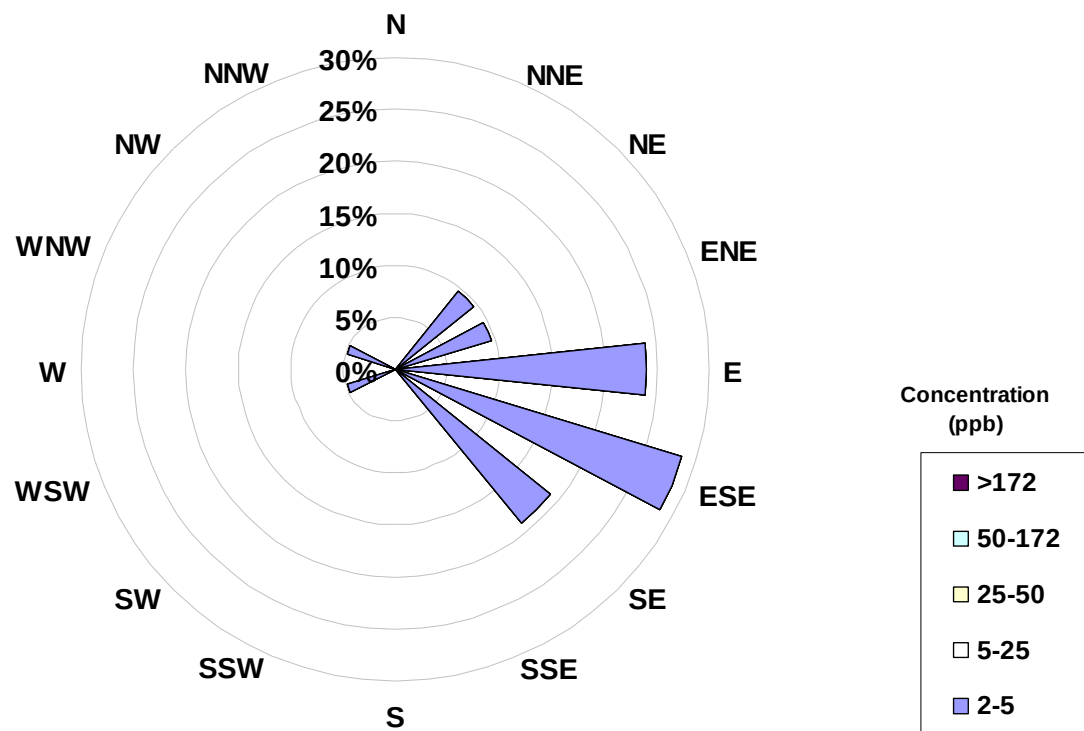


Figure 2. PASZA - Henry Pirker Sulphur Dioxide 1-hr Maximum Value Monthly Trend

**Concentration Rose for the 1-hr SO₂ Average Concentration Occurrences at
the Henry Pirker Site for April 2004**



Frequency Distribution of SO ₂ in ppb			
Range			Frequency (hrs)
0	<	2	650
2	to	5	21
5	to	25	0
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			671

PASZA - Henry Pirker Oxides of Nitrogen Monthly Summary

Station: Henry Pirker

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Station Owner: PASZA

 Monitoring Dates: April 1, 2004 to May 1, 2004
 Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	45 ppb 7-Apr 20:00 21:00
Maximum 24-hr Average:	22 ppb 3-Apr

 Guideline Limit: Alberta Environment: 1-hr 212 ppb 24-hr 106 ppb

AIC Time:	31 hrs				Operational Time:				680 hrs	
Calibration Time:	6 hrs				AMD Operational Uptime:				99.6%	
Percentile	99	95	75	50	25	5	1	Average		
	37	27	11	4	2	1	1	7.9 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-Apr-04	13	16	31	A	30	35	33	32	23	10	5	4	3	3	2	2	3	8	14	16	17	15	12	9	14.6	35.5
2-Apr-04	9	9	10	A	18	19	33	32	29	23	14	9	3	2	4	3	6	9	16	21	21	13	13	19	14.6	32.9
3-Apr-04	22	18	22	A	27	30	27	32	33	24	22	11	11	9	9	7	6	10	22	22	34	36	38	30	21.9	37.6
4-Apr-04	8	5	4	A	2	3	5	5	3	2	2	2	2	2	3	3	3	3	4	6	14	14	12	4.9	14.0	
5-Apr-04	16	16	15	A	35	39	41	39	23	20	8	2	2	2	2	3	7	6	12	19	21	4	5	6	14.9	40.9
6-Apr-04	4	4	5	A	9	14	27	20	5	3	3	1	1	1	1	1	1	1	2	24	42	15	8	5	8.5	41.6
7-Apr-04	6	7	5	A	6	10	18	36	12	6	8	12	11	7	10	10	5	10	8	26	45	16	6	9	12.5	45.4
8-Apr-04	8	15	15	A	12	18	25	17	9	4	2	2	2	2	2	2	3	3	4	8	13	18	16	18	9.4	24.9
9-Apr-04	16	22	19	A	14	14	12	7	5	5	4	3	2	1	2	1	1	1	2	12	40	35	29	20	11.5	40.4
10-Apr-04	12	11	9	A	14	15	11	13	15	5	2	2	2	1	1	1	2	3	4	10	5	4	6	5	6.8	15.3
11-Apr-04	4	5	4	A	13	17	18	17	18	7	4	1	1	1	1	1	1	2	3	4	6	5	4	4	6.1	17.8
12-Apr-04	4	3	3	A	3	3	4	3	2	3	4	4	4	4	4	4	P	5	5	4	4	3	2	2	3.5	4.9
13-Apr-04	2	2	1	A	2	3	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	3	3	3	3.4	4.5
14-Apr-04	3	2	2	A	3	5	9	8	6	5	5	5	4	6	5	7	8	7	6	5	4	3	2	2	4.9	9.1
15-Apr-04	2	1	1	A	2	2	3	3	3	2	2	2	1	1	1	2	3	2	2	3	3	4	3	4	2.3	4.1
16-Apr-04	3	2	2	A	8	20	25	15	5	3	3	4	2	2	2	2	2	2	2	5	10	9	5	4	6.1	25.1
17-Apr-04	5	5	7	A	14	15	14	13	12	7	5	4	3	2	1	1	1	2	1	3	12	28	27	24	9.0	28.4
18-Apr-04	17	19	17	A	16	14	14	12	10	11	6	3	1	1	2	1	1	1	3	4	3	4	3	3	7.3	19.4
19-Apr-04	2	2	2	A	4	5	10	9	3	2	1	1	1	1	1	1	2	1	2	5	6	6	6	4	3.4	9.7
20-Apr-04	4	5	5	A	11	15	15	16	12	6	2	1	1	2	2	2	2	2	4	7	12	8	8	7	6.5	16.0
21-Apr-04	14	12	15	A	9	13	14	15	C	C	C	C	C	C	3	3	3	1	2	3	7	8	5	6	N	14.7
22-Apr-04	12	9	8	9	A	12	18	19	4	3	2	1	2	2	1	1	N	5	6	12	23	37	35	11	10.5	36.8
23-Apr-04	7	5	5	A	9	19	22	35	36	20	16	5	5	N	4	5	4	2	2	2	3	2	2	2	9.8	36.0
24-Apr-04	1	2	A	1	2	3	5	3	2	2	2	1	1	2	1	1	2	2	1	2	3	3	3	2	2.0	4.9
25-Apr-04	2	A	2	3	3	3	5	4	2	2	1	2	2	1	1	1	1	2	1	2	4	3	5	2	2.3	5.0
26-Apr-04	A	3	3	5	10	16	26	27	15	9	7	5	3	3	3	3	3	2	2	3	4	3	2	A	7.1	26.8
27-Apr-04	3	4	3	1	3	4	7	6	5	5	6	4	3	2	3	2	2	3	2	2	3	3	A	11	3.8	11.4
28-Apr-04	7	11	12	9	8	12	15	9	5	3	2	2	2	2	2	2	3	3	3	5	12	A	24	21	7.6	24.2
29-Apr-04	11	7	7	9	12	17	17	15	6	2	2	2	2	2	2	1	1	2	4	6	A	19	15	18	7.7	18.8
30-Apr-04	12	7	5	4	6	10	11	7	5	6	3	2	1	1	1	1	2	1	3	A	12	12	7	7	5.5	12.3
																									N	0.0
Hourly Avg	7.8	7.9	8.3	N	10.5	13.6	16.3	15.8	10.7	7.1	5.0	3.5	2.9	2.4	2.7	2.6	2.9	3.5	4.9	8.4	13.1	11.5	10.6	9.3		
Hourly Max	22.1	22.0	30.9	9.3	34.7	38.7	40.9	39.3	36.0	24.4	22.0	11.7	11.0	9.4	9.8	10.2	8.1	10.5	21.8	25.8	45.4	36.8	37.6	30.1		

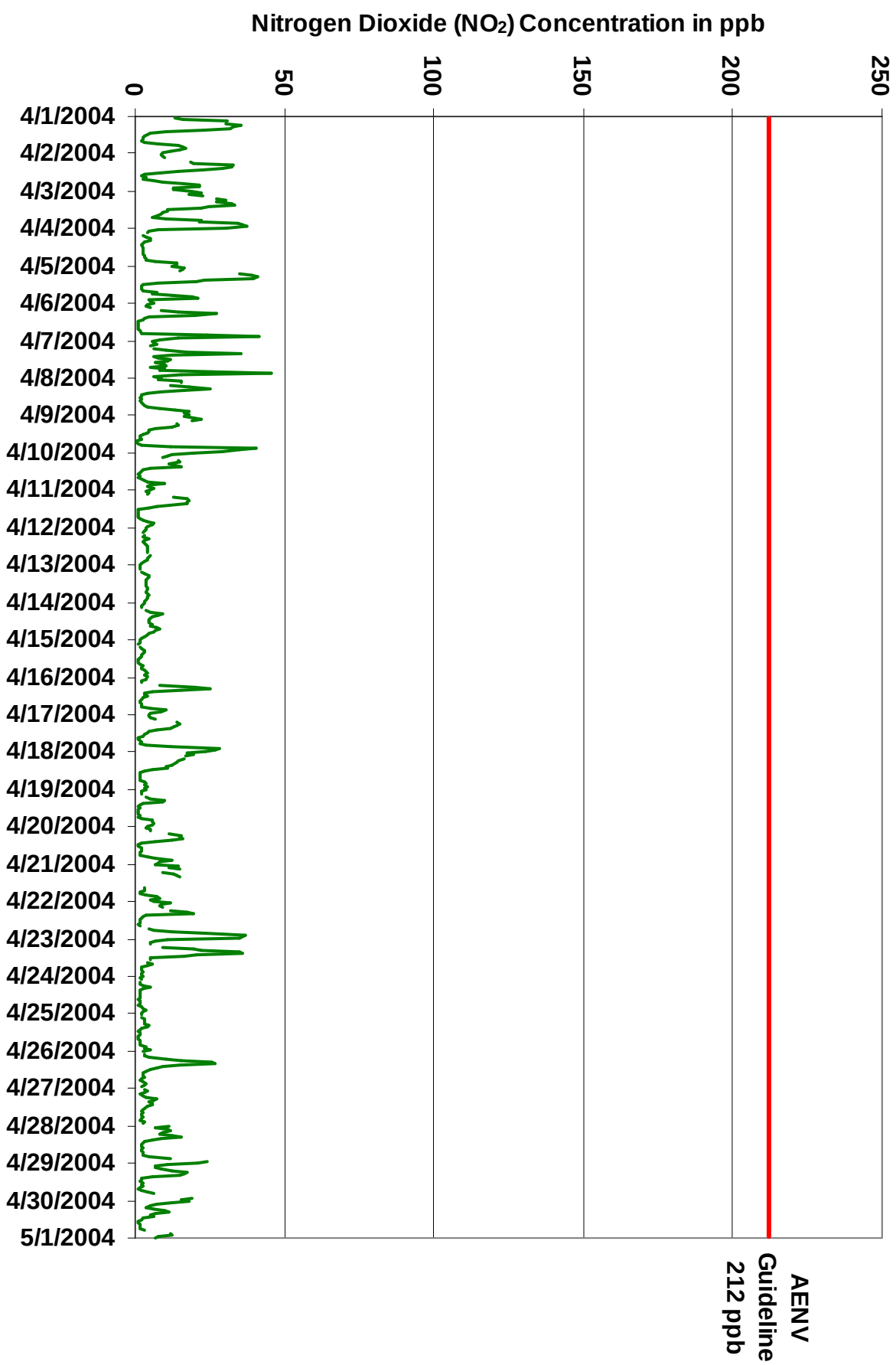


Figure 3. PASZA - Henry Piker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker

HOURLY MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004
Summary

Maximum 1-hr Value:	60.6	ppb	2-Apr	8:00 9:00
Maximum 24-hr Value:	29.5	ppb	3-Apr	

AIC Time:					32 hrs		Operational Time:		680 hrs	
Calibration Time:					5 hrs		AMD Operational Uptime:		99.6%	
Percentile	99	95	75	50	25	5	1	Average		
	47	37	18	8	4	2	2	12.4 ppb		

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-Apr-04	18	30	41	A	41	47	46	42	29	28	8	7	6	5	5	5	8	19	19	24	35	19	18	15	22.3	46.9	
2-Apr-04	13	16	16	A	25	26	46	37	61	47	19	15	6	6	8	7	11	21	22	32	29	18	17	32	23.0	60.6	
3-Apr-04	29	25	27	A	33	35	33	36	40	34	28	25	12	14	21	10	9	26	37	31	46	42	45	41	29.5	45.8	
4-Apr-04	15	10	11	A	5	6	9	7	5	4	4	4	4	4	4	5	4	4	5	6	11	22	22	29	8.8	28.6	
5-Apr-04	29	26	24	A	42	46	56	52	29	31	16	4	6	4	6	7	12	9	22	26	39	13	7	9	22.5	56.4	
6-Apr-04	8	6	19	A	16	25	36	36	11	4	4	3	5	3	3	4	3	5	5	45	50	25	11	8	14.6	50.2	
7-Apr-04	11	35	22	A	11	14	37	41	36	10	11	18	14	10	14	14	9	17	15	45	54	39	10	12	21.7	54.1	
8-Apr-04	12	26	26	A	20	27	33	30	12	10	3	3	3	4	3	5	4	6	8	15	25	23	25	24	15.1	33.1	
9-Apr-04	25	31	27	A	17	23	23	9	7	7	7	5	3	3	7	1	3	2	5	38	49	45	37	23	17.3	49.4	
10-Apr-04	18	14	15	A	17	18	14	18	18	9	4	3	2	3	3	2	5	5	7	18	13	6	11	8	10.0	18.4	
11-Apr-04	6	8	5	A	17	23	23	21	21	13	6	4	1	9	2	4	3	4	6	8	7	7	6	6	9.1	22.9	
12-Apr-04	9	4	5	A	5	4	6	6	4	5	6	6	8	7	7	7	P	9	8	9	7	7	5	4	6.4	9.3	
13-Apr-04	3	3	3	A	4	6	7	7	6	5	5	6	10	6	7	9	6	6	9	7	8	7	6	8	6.3	9.7	
14-Apr-04	6	3	3	A	6	10	14	17	9	8	7	7	10	9	8	11	12	10	12	7	6	6	3	2	8.1	16.9	
15-Apr-04	2	2	2	A	3	3	8	8	5	4	5	4	2	2	2	3	17	3	6	5	6	7	6	8	4.9	16.6	
16-Apr-04	10	4	3	A	15	30	30	25	8	4	5	6	6	4	3	3	3	4	4	8	13	13	8	8	9.3	30.0	
17-Apr-04	6	8	10	A	20	19	21	21	21	9	7	5	5	4	2	2	2	6	2	6	21	33	29	29	12.6	33.4	
18-Apr-04	23	24	21	A	19	18	18	17	13	13	10	6	2	3	3	3	2	3	5	5	9	7	5	5	10.1	24.0	
19-Apr-04	4	3	4	A	5	8	12	14	4	4	1	3	2	2	3	4	5	3	6	11	9	9	9	6	5.7	13.6	
20-Apr-04	6	10	9	A	18	17	18	19	17	9	4	2	1	3	6	3	4	5	8	14	16	12	10	10	9.6	18.8	
21-Apr-04	24	18	19	A	15	16	16	20	A	C	C	C	C	C	C	5	5	41	3	4	6	24	18	7	9	N	40.5
22-Apr-04	23	13	17	19	A	17	22	26	7	4	6	2	4	3	2	3	N	8	9	26	36	43	40	22	16.0	42.7	
23-Apr-04	10	8	7	A	15	31	29	43	45	27	26	9	10	N	8	9	12	3	3	3	5	4	4	5	14.4	45.1	
24-Apr-04	2	3	A	2	2	5	10	4	3	3	4	3	3	3	2	4	3	4	5	4	4	5	4	4	3.8	9.7	
25-Apr-04	3	A	4	5	4	7	7	8	3	3	3	2	4	2	2	2	3	3	4	3	6	5	8	5	4.2	8.2	
26-Apr-04	A	5	9	11	21	29	31	31	25	15	11	9	7	4	5	6	5	3	3	4	7	7	6	A	11.6	30.7	
27-Apr-04	6	7	5	3	8	7	11	17	9	12	9	8	6	5	9	4	5	5	7	3	10	5	A	18	7.8	18.0	
28-Apr-04	17	21	14	13	14	20	22	19	8	8	4	4	4	5	4	6	5	5	5	7	19	A	28	24	12.0	28.2	
29-Apr-04	17	8	9	12	21	31	23	21	12	3	4	6	12	4	7	8	3	4	7	11	A	30	21	26	13.1	31.1	
30-Apr-04	20	13	8	5	9	14	15	10	7	8	18	9	3	2	4	4	5	3	7	A	16	17	12	12	9.6	19.8	
																									N	0.0	
Hourly Avg	12.9	13.2	13.3	N	15.5	19.4	22.5	22.1	16.5	11.8	8.4	6.5	5.6	4.7	5.5	5.3	7.3	6.9	8.8	14.8	20.1	17.0	14.6	14.1			
Hourly Max	29.1	34.7	40.8	18.6	42.4	46.9	56.4	52.3	60.6	46.6	28.0	25.2	14.3	13.7	20.9	13.9	40.5	25.6	37.1	45.5	54.1	45.2	45.0	40.7			

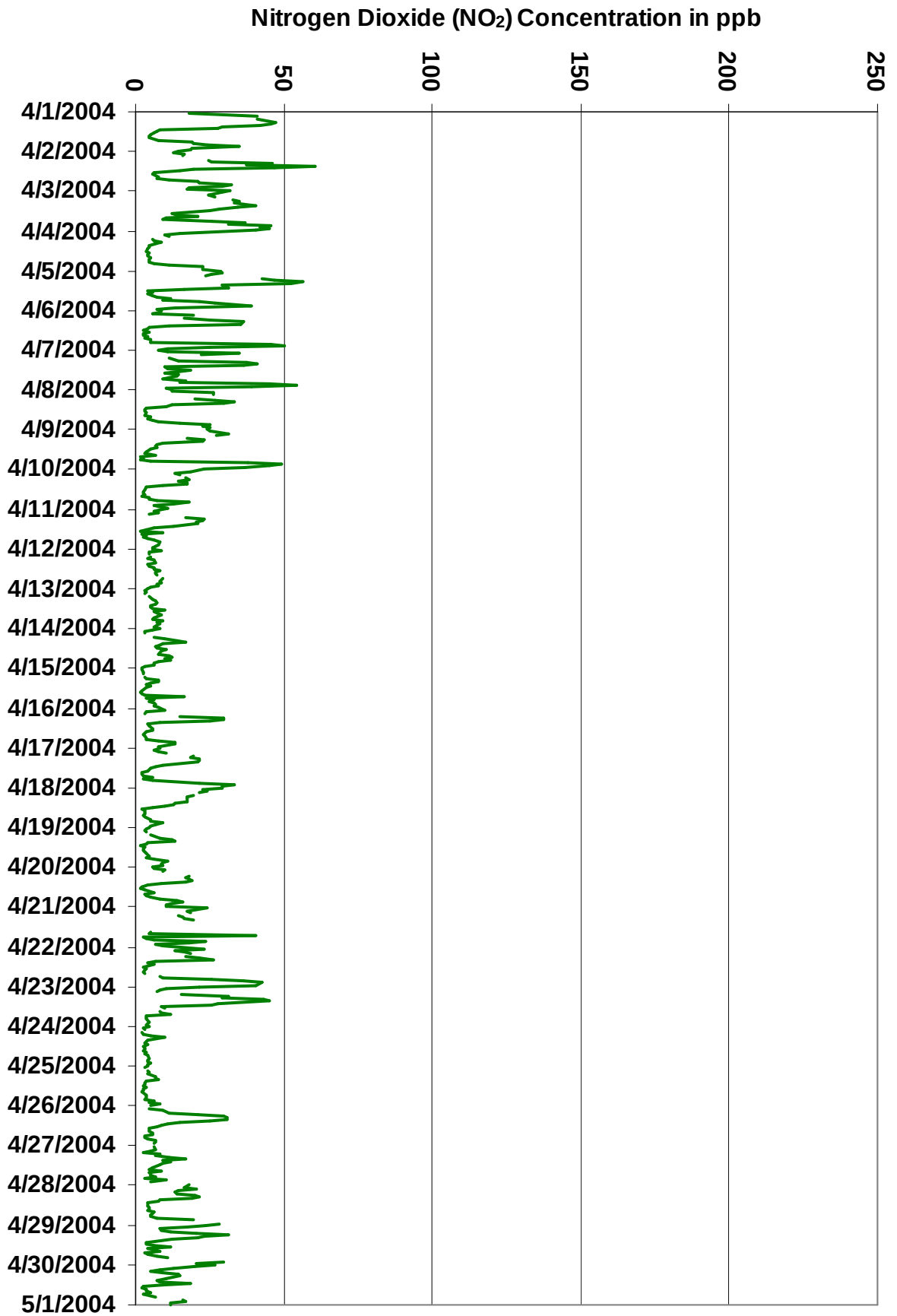
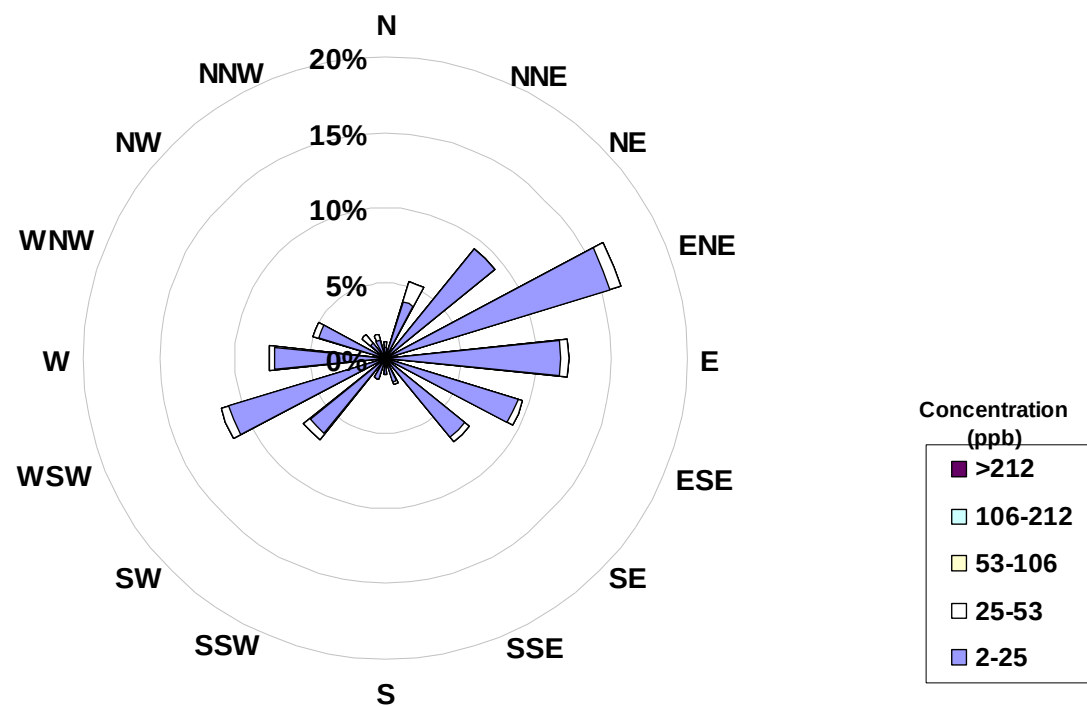


Figure 4. PASZA - Henry Piker Nitrogen Dioxide 1-hr Maximum Value Monthly Trend

Concentration Rose for the 1-hr NO₂ Average Concentration Occurrences at the Henry Pirker Site for April 2004



Frequency Distribution of NO ₂ in ppb			
Range			Frequency (hrs)
0	<	2	135
2	to	25	507
25	to	53	38
53	to	106	0
106	to	212	0
	>	212	0
Total Non-Zero Values			680

Station: Henry Pirker

HOURLY AVERAGE TABLE

Nitrogen Oxide (NO)

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004
Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	102	ppb	23-Apr	7:00 8:00
Maximum 24-hr Average:	14	ppb	3-Apr	

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

AIC Time:	31 hrs				Operational Time:				680 hrs
Calibration Time:	6 hrs				AMD Operational Uptime:				99.6%
Percentile	99	95	75	50	25	5	1	Average	
	40	12	2	1	0	0	0	2.9 ppb	

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Apr-04	0	0	0	A	1	2	5	10	10	5	2	2	1	1	1	1	1	2	1	1	1	0	0	0	2.1	10.4
2-Apr-04	0	0	0	A	0	0	10	16	26	12	7	4	1	1	1	1	2	2	2	3	2	1	1	1	4.0	26.0
3-Apr-04	2	2	4	A	13	56	51	60	37	18	14	5	4	3	3	2	1	1	2	1	6	12	11	3	13.6	60.1
4-Apr-04	0	0	0	A	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0.5	1.1
5-Apr-04	0	0	0	A	3	26	90	77	16	12	4	1	1	1	1	1	2	1	1	1	0	0	0	0	10.4	90.3
6-Apr-04	0	0	0	A	0	0	6	7	2	1	1	0	1	0	1	1	0	1	0	2	6	1	0	0	1.3	6.8
7-Apr-04	0	1	1	A	0	1	2	23	5	2	3	4	4	2	3	3	1	2	2	3	22	1	0	0	3.7	23.2
8-Apr-04	0	0	0	A	0	1	4	5	4	2	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1.2	5.3
9-Apr-04	1	4	2	A	1	1	1	2	2	2	2	1	1	1	1	0	0	0	0	1	15	5	12	18	3.2	17.8
10-Apr-04	2	3	2	A	8	4	9	18	18	3	1	1	1	0	1	0	0	1	0	0	0	0	0	0	3.2	18.2
11-Apr-04	0	0	0	A	0	1	9	23	15	2	2	0	0	0	0	0	0	0	1	0	0	1	1	0	2.5	22.6
12-Apr-04	1	0	1	A	0	0	1	1	1	1	1	1	1	1	1	1	P	1	1	1	1	1	1	1	0.9	1.4
13-Apr-04	1	1	1	A	1	1	1	2	2	2	2	3	2	2	2	2	2	2	1	2	1	1	1	1	1.5	2.6
14-Apr-04	1	0	0	A	1	1	2	4	2	3	3	3	3	2	2	2	3	1	1	1	1	1	0	0	1.6	4.0
15-Apr-04	0	0	0	A	0	0	1	1	1	1	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0.6	1.8
16-Apr-04	0	0	0	A	0	1	13	11	4	2	3	3	2	1	1	1	1	1	1	1	1	1	1	1	2.2	12.7
17-Apr-04	1	1	1	A	1	1	3	7	8	5	3	3	2	1	0	0	0	1	0	0	0	7	9	6	2.6	9.2
18-Apr-04	2	4	4	A	2	2	6	9	11	14	5	2	1	1	1	0	0	0	0	0	0	0	0	0	2.7	13.7
19-Apr-04	0	0	0	A	0	0	2	5	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	0	0.9	5.1
20-Apr-04	1	1	1	A	2	11	26	26	14	4	1	1	0	1	1	1	1	1	1	1	1	2	1	1	4.4	26.4
21-Apr-04	2	1	2	A	1	5	11	12	C	C	C	C	C	C	2	3	4	3	3	3	4	3	2	2	N	12.4
22-Apr-04	1	1	0	0	A	0	4	10	1	1	1	0	0	0	0	1	N	0	0	0	1	16	25	0	2.9	24.5
23-Apr-04	0	0	0	A	0	8	14	102	79	6	5	1	1	N	1	1	1	1	0	0	0	0	0	0	10.1	102.5
24-Apr-04	0	0	A	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0.4	0.8
25-Apr-04	0	A	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9
26-Apr-04	A	0	0	0	0	2	11	18	6	3	3	2	2	1	1	1	1	1	0	0	0	0	0	A	2.4	17.7
27-Apr-04	0	0	0	0	0	0	0	1	1	1	2	1	1	1	2	1	1	1	1	1	1	1	0	A	0.8	1.5
28-Apr-04	0	1	1	0	0	2	7	5	3	2	1	1	1	1	1	1	1	1	0	0	0	A	14	5	2.0	13.9
29-Apr-04	0	0	0	0	1	8	11	10	3	1	1	1	1	1	1	1	0	1	1	1	A	1	0	0	1.9	11.2
30-Apr-04	1	0	0	0	0	1	3	2	2	3	1	1	0	0	0	0	0	0	0	A	0	0	0	0	0.7	2.9
																									N	0.0
Hourly Avg	0.5	0.7	0.7	N	1.3	4.6	10.2	15.7	9.5	3.8	2.5	1.6	1.2	1.0	1.1	1.0	1.0	0.9	0.9	0.9	2.3	1.9	2.8	1.4		
Hourly Max	2.3	4.0	4.0	0.3	13.5	56.1	90.3	102.5	79.5	18.1	13.9	5.2	4.5	3.5	3.1	2.8	3.7	2.6	2.6	2.7	21.6	16.1	24.5	17.8		

Station: Henry Pirker

HOURLY MAXIMUM TABLE

Nitrogen Oxide (NO)

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004

Summary

Maximum 1-hr Value:	158.2	ppb	23-Apr	8:00 9:00
Maximum 24-hr Value:	26.3	ppb	3-Apr	

AIC Time:	31 hrs	Operational Time:	680 hrs					
Calibration Time:	6 hrs	AMD Operational Uptime:	99.6%					
Percentile	99	95	75	50	25	5	1	Average
	76	28	6	2	1	0	0	7.2 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	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Apr-04	1	1	2	A	3	9	12	18	17	14	4	4	3	2	2	2	2	5	2	2	3	1	1	1	4.8	18.1
2-Apr-04	2	0	1	A	0	1	61	25	118	28	10	7	3	2	3	2	8	15	9	17	6	2	2	13	14.6	118.3
3-Apr-04	7	9	19	A	40	86	88	72	59	29	21	16	5	6	11	4	3	7	9	8	30	42	24	9	26.3	87.5
4-Apr-04	0	1	1	A	0	0	0	1	1	1	1	1	2	1	2	2	1	1	1	0	0	1	1	0	1.1	1.9
5-Apr-04	1	0	2	A	8	64	156	126	26	23	9	2	2	2	3	2	5	2	4	4	1	1	2	0	19.4	156.0
6-Apr-04	1	1	1	A	0	1	16	21	19	2	2	1	2	2	3	1	2	2	1	5	15	2	1	1	4.4	20.7
7-Apr-04	1	10	2	A	2	2	10	64	21	5	13	7	6	4	4	4	5	8	10	14	73	14	0	1	12.3	73.5
8-Apr-04	1	1	2	A	1	5	8	17	5	5	2	2	1	2	2	2	2	2	2	2	8	3	2	4	3.5	16.7
9-Apr-04	4	20	7	A	1	4	4	3	3	4	4	2	1	2	4	0	2	0	2	9	37	23	39	36	9.2	38.6
10-Apr-04	14	14	13	A	15	15	12	30	25	5	2	2	1	1	1	1	1	1	1	1	0	0	0	0	6.8	30.3
11-Apr-04	1	0	1	A	0	8	23	31	27	4	3	1	1	2	2	1	2	2	7	2	1	1	1	1	5.2	31.2
12-Apr-04	7	1	7	A	6	2	2	3	3	4	3	3	4	7	5	3	P	6	7	5	7	4	5	4	4.5	7.4
13-Apr-04	5	5	2	A	5	5	5	4	5	3	5	6	8	5	4	6	7	4	7	5	7	6	5	6	5.3	8.2
14-Apr-04	4	1	1	A	5	6	10	15	10	9	6	9	11	9	7	3	6	4	6	4	4	2	0	0	5.8	14.9
15-Apr-04	0	0	1	A	1	1	3	3	3	3	7	3	2	2	2	2	6	1	2	1	1	1	0	1	1.8	6.8
16-Apr-04	0	1	1	A	1	5	23	26	6	3	4	5	4	3	2	2	2	2	2	3	2	2	1	1	4.3	26.1
17-Apr-04	1	2	1	A	5	2	10	24	22	7	6	4	4	2	1	1	1	2	0	0	1	16	22	11	6.4	24.1
18-Apr-04	6	14	8	A	5	5	14	16	16	21	10	3	1	1	1	1	1	1	1	0	2	0	0	0	5.5	20.8
19-Apr-04	0	0	0	A	0	1	5	8	2	2	1	1	1	4	1	1	2	1	5	4	5	5	9	2	2.7	8.9
20-Apr-04	11	5	7	A	10	38	48	53	26	7	3	1	1	1	2	1	3	3	5	3	6	2	2	1	10.4	53.2
21-Apr-04	6	4	6	A	8	11	23	27	C	C	C	C	C	C	3	4	40	3	3	3	41	4	4	3	N	41.4
22-Apr-04	2	2	1	5	A	4	10	20	3	2	2	0	2	0	1	1	N	1	0	1	9	48	52	0	7.6	52.4
23-Apr-04	0	1	1	A	1	39	33	149	158	11	14	3	3	N	2	2	2	1	1	1	0	0	0	0	19.2	158.2
24-Apr-04	0	0	A	0	0	0	1	2	1	1	2	2	1	2	2	2	2	2	1	0	0	1	0	0	1.1	2.0
25-Apr-04	0	A	0	2	1	0	1	2	1	1	1	1	2	1	1	1	1	1	1	0	0	0	0	0	1.0	2.0
26-Apr-04	A	0	0	1	1	10	20	30	16	6	5	4	3	3	3	2	3	1	1	1	0	1	1	A	5.1	29.8
27-Apr-04	0	1	0	0	0	0	1	3	2	3	5	2	2	2	6	4	3	6	4	3	6	1	A	1	2.5	6.1
28-Apr-04	4	4	2	0	1	5	20	14	5	5	2	2	2	2	2	2	3	2	1	1	1	A	35	11	5.4	34.5
29-Apr-04	3	0	0	1	5	33	27	20	6	2	2	6	12	2	5	3	2	2	5	3	A	5	2	2	6.5	32.8
30-Apr-04	4	1	2	3	2	6	5	6	4	4	14	7	2	0	2	2	2	1	1	A	1	1	1	0	3.1	14.4
																									N	0.0
Hourly Avg	3.0	3.5	3.2	N	4.4	12.3	21.7	27.7	21.2	7.4	5.5	3.7	3.2	2.5	3.0	2.2	4.3	3.0	3.3	3.6	9.3	6.5	7.4	3.9		
Hourly Max	13.8	20.1	18.8	4.5	40.1	86.1	156.0	148.8	158.2	29.2	20.7	16.4	12.4	8.5	11.1	6.2	39.9	14.8	10.0	17.2	73.5	47.8	52.4	35.7		

Station: Henry Pirker

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004
Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	138	ppb	23-Apr	7:00 8:00
Maximum 24-hr Average:	36	ppb	3-Apr	

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

AIC Time:				31 hrs				Operational Time:				680 hrs					
Calibration Time:				6 hrs				AMD Operational Uptime:				99.6%					
Percentile		99		95		75		50		25		5		1		Average	
		73		38		13		6		3		2		1		10.9 ppb	

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-04	13	16	32	A	31	38	38	42	33	16	7	6	5	4	3	3	4	9	16	17	18	15	12	9	16.9	42.0
2-Apr-04	9	10	10	A	19	20	44	49	56	35	22	13	4	3	5	4	8	12	18	24	23	14	13	20	18.8	55.9
3-Apr-04	24	20	26	A	41	87	79	93	71	43	36	16	16	13	12	10	7	12	25	23	41	48	49	33	35.9	92.8
4-Apr-04	8	5	4	A	3	4	6	6	4	3	3	3	3	3	4	4	4	4	4	4	7	14	14	13	5.5	14.5
5-Apr-04	17	16	15	A	38	66	132	118	39	33	11	3	3	2	3	3	9	7	14	20	21	5	5	6	25.6	132.1
6-Apr-04	4	4	6	A	9	15	34	27	7	4	4	1	2	1	2	2	1	2	2	26	48	16	9	6	10.0	48.1
7-Apr-04	7	8	6	A	7	11	19	60	17	8	11	16	15	9	13	13	6	12	10	29	68	17	6	9	16.4	67.8
8-Apr-04	8	16	16	A	12	19	29	22	13	6	3	3	2	3	3	3	3	4	5	9	15	19	17	18	10.7	28.9
9-Apr-04	17	26	21	A	15	15	14	9	7	7	6	4	2	2	3	1	1	1	2	13	56	41	41	38	14.9	56.4
10-Apr-04	15	14	11	A	23	19	21	32	34	7	3	3	2	2	2	2	3	3	5	10	5	4	6	5	10.0	33.8
11-Apr-04	4	5	4	A	13	19	27	40	33	9	6	1	1	1	1	1	2	2	4	5	7	6	5	4	8.7	40.4
12-Apr-04	4	4	4	A	3	3	5	4	3	4	5	5	5	5	5	5	P	6	6	5	5	3	3	2	4.3	5.9
13-Apr-04	2	2	2	A	3	4	6	6	5	5	6	6	6	5	6	6	6	6	6	5	4	4	4	4	4.7	6.3
14-Apr-04	3	3	3	A	4	6	12	12	8	8	7	8	7	8	8	9	11	8	8	6	5	4	2	2	6.5	12.0
15-Apr-04	2	2	1	A	2	2	4	4	4	3	4	3	2	2	2	2	4	2	3	3	4	4	3	4	2.9	4.4
16-Apr-04	4	2	2	A	9	22	38	27	10	6	6	7	4	4	3	2	3	3	3	6	11	9	6	5	8.3	38.4
17-Apr-04	5	6	7	A	15	16	17	20	20	12	8	7	5	3	1	1	2	2	2	4	12	35	36	30	11.6	36.2
18-Apr-04	19	24	21	A	18	16	20	22	21	25	10	4	2	2	2	2	2	2	3	4	3	4	3	3	10.1	24.5
19-Apr-04	2	2	2	A	4	6	12	15	4	3	1	2	2	1	1	2	2	1	3	6	7	7	7	4	4.1	14.7
20-Apr-04	4	6	6	A	13	27	41	43	26	11	3	1	1	2	3	2	2	3	5	8	14	9	9	7	10.8	42.6
21-Apr-04	16	12	17	A	10	18	25	27	C	C	C	C	C	C	6	6	6	4	4	6	11	11	7	8	N	27.2
22-Apr-04	13	10	9	10	A	12	22	30	5	4	3	1	1	1	1	2	N	5	6	12	25	54	60	11	13.4	60.2
23-Apr-04	7	5	5	A	10	28	37	138	116	27	21	7	6	N	5	7	5	3	2	3	3	2	2	2	20.1	138.2
24-Apr-04	1	2	A	2	2	3	6	4	2	2	3	2	2	2	2	2	2	2	2	3	3	4	3	2	2.5	5.7
25-Apr-04	2	A	2	3	3	3	5	5	3	2	2	2	2	1	2	2	2	2	2	2	4	3	5	2	2.7	5.2
26-Apr-04	A	3	3	5	11	18	37	45	21	13	10	7	5	4	4	4	5	3	2	3	4	3	2	A	9.6	45.0
27-Apr-04	3	4	3	1	3	4	8	7	6	7	7	6	4	3	4	3	4	4	3	3	5	3	A	12	4.6	12.1
28-Apr-04	7	12	13	10	9	14	23	14	9	5	4	3	3	3	3	3	4	3	3	5	12	A	39	27	9.8	38.7
29-Apr-04	12	7	7	9	13	25	28	25	9	3	2	3	4	3	4	2	2	3	5	7	A	20	16	18	9.8	28.2
30-Apr-04	13	8	6	4	7	11	14	9	8	9	3	2	1	1	2	2	2	2	4	A	12	12	7	6	6.3	14.1
																									N	0.0
Hourly Avg	8.5	8.7	9.1	N	12.0	18.4	26.7	31.8	20.4	11.0	7.5	5.0	4.1	3.4	3.7	3.6	3.9	4.4	5.8	9.4	15.6	13.5	13.5	10.8		
Hourly Max	24.3	26.3	31.7	9.6	40.9	87.1	132.1	138.2	116.4	43.1	36.3	16.4	15.7	13.0	12.6	12.9	10.8	12.2	24.6	28.7	67.8	53.6	60.2	37.8		

Station: Henry Pirker

HOURLY MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004
Summary

Maximum 1-hr Value:	202.1	ppb	23-Apr	8:00 9:00
Maximum 24-hr Value:	54.8	ppb	3-Apr	

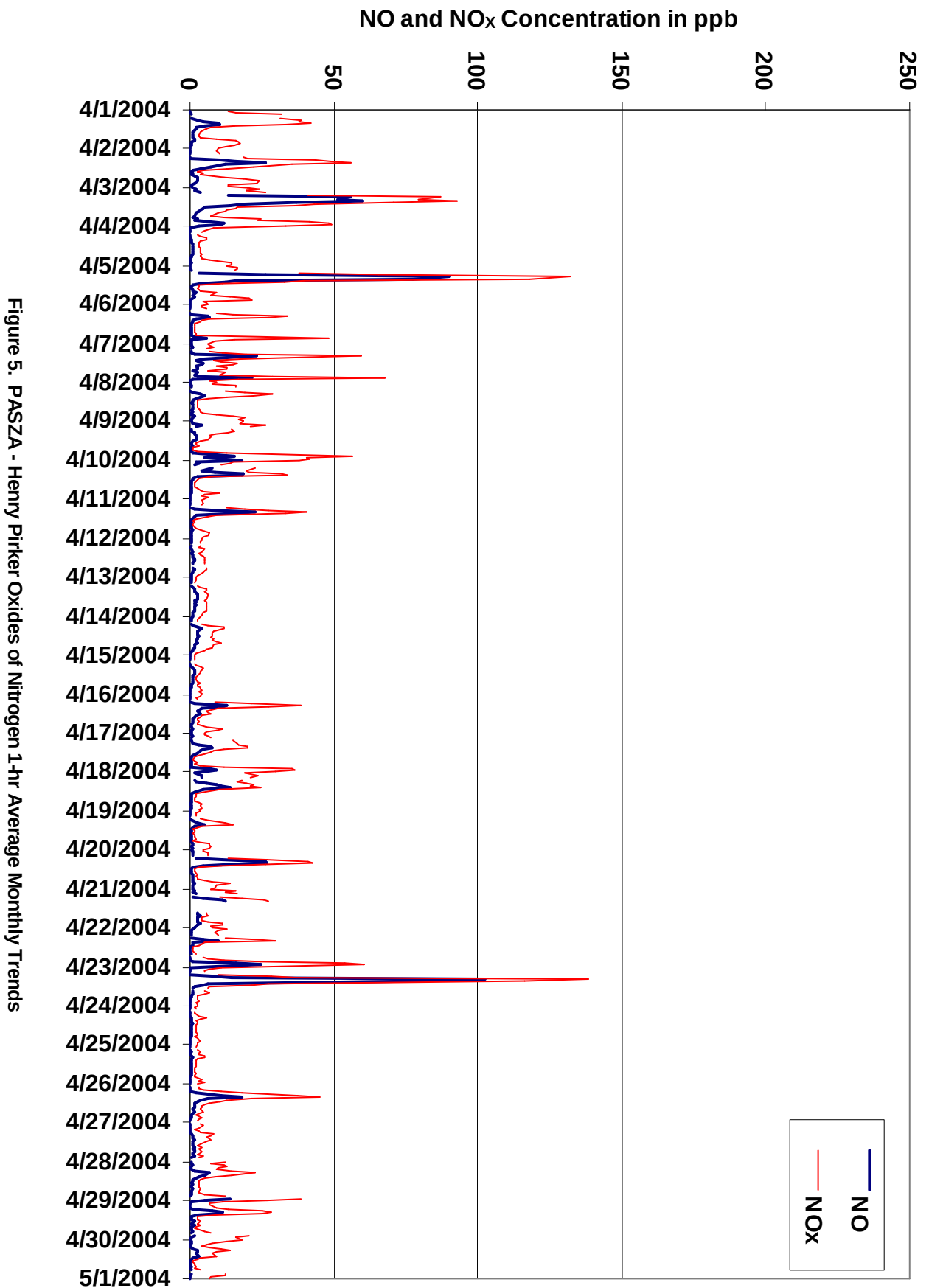
AIC Time:	31 hrs				Operational Time:				680 hrs
Calibration Time:	6 hrs				AMD Operational Uptime:				99.6%
Percentile	99	95	75	50	25	5	1	Average	
	118	59	22	11	6	3	2	19.2 ppb	

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-Apr-04	19	31	44	A	45	53	56	59	47	42	12	11	10	7	7	6	10	24	21	25	38	20	19	15	26.9	58.5
2-Apr-04	13	17	17	A	25	26	106	59	159	75	30	22	9	8	11	10	19	36	31	50	36	19	18	42	36.4	159.3
3-Apr-04	33	33	45	A	71	118	119	107	93	63	49	42	17	20	32	15	12	33	47	34	75	83	69	50	54.8	119.3
4-Apr-04	15	10	12	A	5	7	9	8	6	6	5	5	7	5	6	7	6	6	5	7	11	24	23	29	9.8	29.4
5-Apr-04	30	27	24	A	49	102	200	174	55	56	26	6	8	6	9	9	17	12	25	30	40	14	8	9	40.7	199.7
6-Apr-04	9	7	20	A	17	26	52	57	20	6	6	3	7	4	5	5	5	7	6	51	66	27	12	9	18.5	65.8
7-Apr-04	12	45	25	A	13	16	48	106	59	13	19	27	21	14	19	18	12	25	21	59	126	54	11	13	33.6	125.9
8-Apr-04	13	27	27	A	21	32	41	46	18	16	5	5	5	6	5	7	5	7	10	16	33	23	27	28	18.3	46.4
9-Apr-04	29	51	34	A	19	27	26	12	10	10	11	7	4	5	9	2	5	2	7	48	87	70	66	59	26.1	86.9
10-Apr-04	32	28	26	A	30	29	24	48	42	15	5	4	4	3	4	3	5	6	8	19	13	6	11	9	16.2	47.7
11-Apr-04	7	8	7	A	17	30	46	51	48	17	9	5	2	11	3	5	4	5	13	10	8	8	7	7	14.2	51.2
12-Apr-04	16	6	12	A	11	6	7	10	6	7	9	9	12	13	11	9	P	15	15	14	12	12	9	8	10.5	15.7
13-Apr-04	6	7	5	A	8	10	11	11	12	7	10	11	17	11	11	15	11	9	11	13	13	12	11	15	10.8	17.4
14-Apr-04	8	4	4	A	11	15	22	30	19	15	12	16	22	17	15	14	18	13	18	12	10	9	3	2	13.4	29.7
15-Apr-04	2	3	3	A	3	3	10	11	7	6	10	6	4	3	3	4	23	5	8	5	7	7	7	8	6.5	22.8
16-Apr-04	10	4	4	A	15	35	53	51	14	7	9	11	10	6	5	4	6	6	5	10	15	15	9	10	13.6	52.8
17-Apr-04	7	10	11	A	26	21	31	46	44	17	13	9	8	6	3	3	3	8	3	6	22	45	49	41	18.7	49.4
18-Apr-04	29	39	29	A	24	22	32	32	28	34	19	9	3	4	4	3	3	3	6	5	11	7	5	5	15.4	39.2
19-Apr-04	4	3	4	A	5	9	18	21	6	6	2	4	4	6	4	5	7	4	10	14	13	12	18	7	8.1	21.0
20-Apr-04	17	15	17	A	27	55	65	71	43	15	7	3	3	4	8	5	7	7	13	16	22	14	12	11	19.8	71.5
21-Apr-04	30	22	24	A	23	26	37	46	C	C	C	C	C	C	8	8	44	5	7	9	65	21	10	12	N	64.9
22-Apr-04	25	14	17	20	A	21	32	47	10	6	8	2	5	3	3	4	N	9	9	27	46	85	90	22	22.9	89.7
23-Apr-04	10	9	8	A	16	67	63	192	202	39	39	12	12	N	10	10	14	4	4	4	5	4	4	5	33.4	202.1
24-Apr-04	2	3	A	2	2	5	11	5	4	4	6	4	4	4	4	5	5	6	6	5	4	5	4	4	4.7	11.1
25-Apr-04	3	A	4	7	5	7	7	10	5	4	4	4	5	3	4	3	4	4	4	4	7	5	8	5	5.1	9.9
26-Apr-04	A	5	10	11	22	40	49	59	41	21	16	13	11	7	7	8	8	4	3	5	7	7	7	A	16.4	59.1
27-Apr-04	7	7	6	3	8	7	13	20	11	15	12	10	8	6	14	8	8	8	10	5	15	6	A	19	10.0	20.1
28-Apr-04	21	25	17	13	15	25	41	33	14	13	6	6	7	7	6	8	7	7	5	9	20	A	62	33	17.3	61.9
29-Apr-04	21	9	9	13	26	65	49	41	19	4	6	13	20	6	12	12	5	6	12	12	A	35	22	27	19.3	64.5
30-Apr-04	24	14	10	7	11	17	19	17	11	12	33	17	4	2	6	6	7	4	8	A	17	18	12	12	12.5	33.2
																									N	0.0
Hourly Avg	15.7	16.6	16.3	N	19.6	30.8	43.3	49.3	36.3	19.0	13.8	10.2	8.6	7.0	8.2	7.4	10.1	9.6	11.7	18.0	29.1	23.0	21.1	17.8		
Hourly Max	33.0	50.7	44.9	20.1	70.6	118.2	199.7	192.1	202.1	75.0	49.1	42.3	21.6	20.3	32.3	18.0	43.8	35.8	46.7	59.2	125.9	84.8	89.7	59.2		



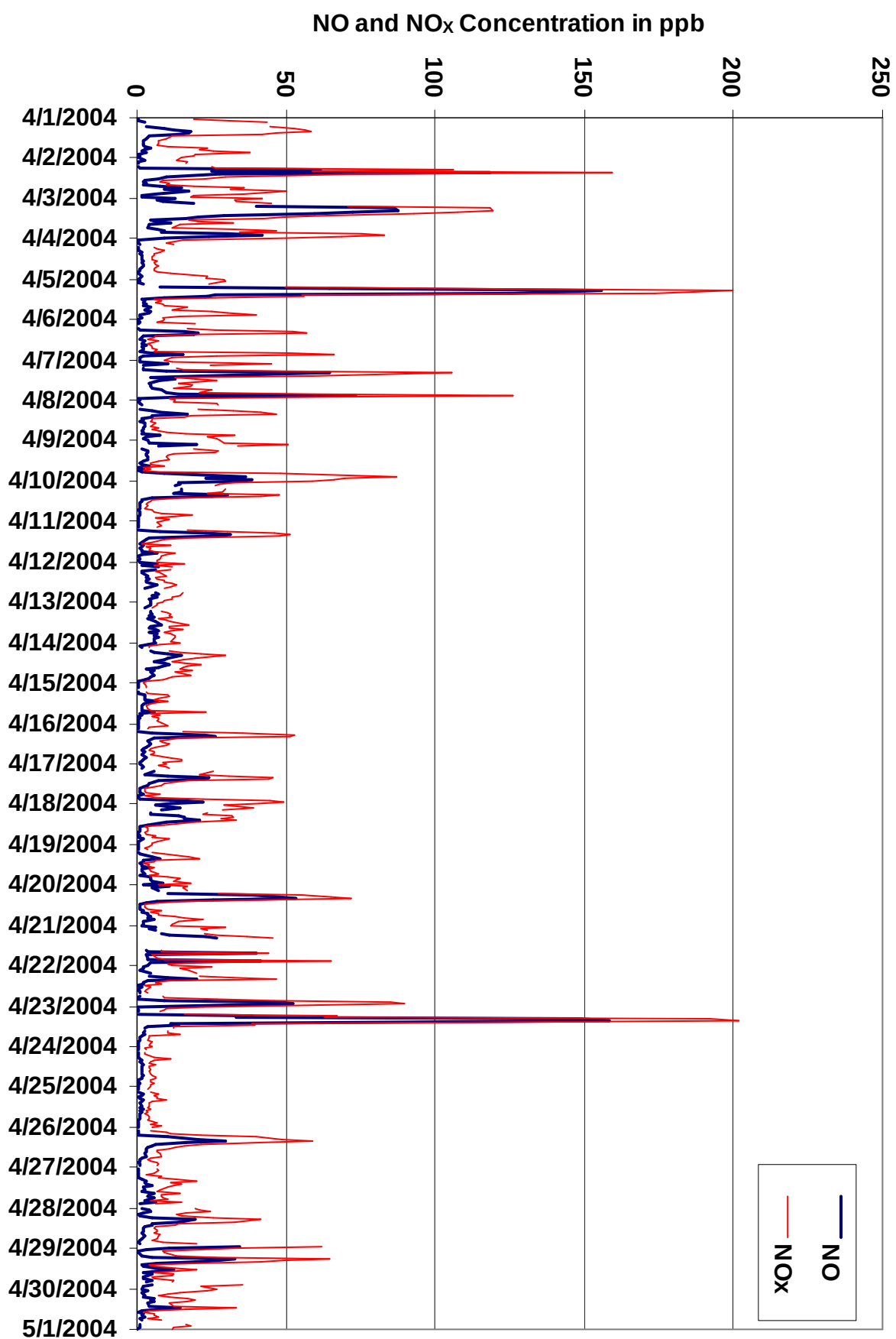


Figure 6. PASZA - Henry Pirkner Oxides of Nitrogen 1-hr Maximum Value Monthly Trends

PASZA - Henry Pirker Ozone Monthly Summary

Station: Henry Pirker

HOURLY AVERAGE TABLE

Ozone (O₃)

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	60	ppb	30-Apr	17:00 18:00
Maximum 24-hr Average:	49	ppb	4-Apr	

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

AIC Time:	31 hrs				Operational Time:				683 hrs	
Calibration Time:	4 hrs				AMD Operational Uptime:				99.7%	
Percentile	99	95	75	50	25	5	1	Average		
	57	54	46	38	28	4	1	35.4 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-Apr-04	2	31	A	19	15	10	15	15	25	38	46	49	51	53	54	54	54	49	41	37	33	34	36	37	34.6	54.4
2-Apr-04	37	36	A	36	27	23	7	10	21	29	37	44	50	53	54	56	54	50	42	32	33	41	41	27	36.5	56.4
3-Apr-04	9	8	A	5	0	0	0	2	11	22	28	40	42	45	46	49	53	49	29	25	10	7	6	14	21.9	53.4
4-Apr-04	36	46	A	56	54	51	49	49	51	51	52	52	53	53	53	54	54	54	51	50	46	34	33	35	48.6	56.1
5-Apr-04	27	26	A	10	4	0	0	4	18	29	42	50	54	56	57	57	54	55	46	37	36	47	37	31	33.8	57.2
6-Apr-04	38	40	A	34	33	28	14	23	41	42	46	52	53	54	54	55	56	56	54	32	13	34	38	39	40.4	55.8
7-Apr-04	40	39	A	42	40	35	26	8	31	38	37	35	40	47	46	47	51	44	46	26	2	28	33	27	35.1	50.6
8-Apr-04	32	26	A	36	27	19	12	23	32	43	48	50	52	53	54	55	53	53	51	38	28	21	20	14	36.4	54.9
9-Apr-04	13	9	A	23	16	15	21	29	32	34	38	47	52	54	52	56	56	55	53	40	7	9	2	1	31.1	56.3
10-Apr-04	6	3	A	0	1	4	1	5	11	33	42	46	49	52	51	51	50	49	46	34	38	42	35	35	29.7	51.7
11-Apr-04	35	32	A	24	14	5	2	2	10	31	36	44	44	43	42	43	43	43	42	38	34	32	33	34	30.7	44.5
12-Apr-04	33	30	A	33	30	32	28	35	40	39	38	36	36	37	38	37	32	36	36	37	38	38	38	29	35.0	40.4
13-Apr-04	28	32	A	37	37	36	35	36	35	35	36	37	40	42	43	42	42	41	40	40	39	38	37	35	37.5	42.9
14-Apr-04	34	35	A	36	36	34	29	31	34	35	37	38	39	37	37	36	35	37	37	40	40	40	41	41	36.5	40.8
15-Apr-04	41	39	A	41	40	38	37	37	40	42	44	45	45	46	47	46	46	46	45	44	43	42	43	41	42.6	46.7
16-Apr-04	42	44	A	40	35	19	9	22	35	41	44	45	48	48	50	50	49	48	47	41	32	33	37	38	39.0	49.6
17-Apr-04	38	37	A	31	16	8	19	22	23	31	33	35	42	47	48	49	48	47	48	43	29	3	1	3	30.5	48.9
18-Apr-04	10	5	A	4	4	6	7	8	9	10	21	37	44	46	45	45	45	45	40	36	38	33	36	34	26.5	46.0
19-Apr-04	33	33	A	29	29	25	19	20	33	42	50	52	53	54	54	55	55	55	50	41	36	34	33	32	39.9	55.2
20-Apr-04	28	22	A	21	11	2	1	6	17	27	39	47	52	52	54	56	57	58	50	42	32	35	34	35	33.8	57.7
21-Apr-04	21	16	A	5	7	3	3	5	19	30	41	46	52	51	C	C	C	C	54	49	41	38	41	38	29.5	53.8
22-Apr-04	27	26	25	A	27	19	14	18	42	42	47	51	53	54	56	56	N	50	47	36	20	2	3	32	34.0	56.4
23-Apr-04	36	40	41	A	31	9	3	2	4	19	27	45	45	N	47	46	48	48	51	51	50	48	45	43	35.3	51.0
24-Apr-04	44	42	A	41	41	40	37	42	44	45	45	46	47	48	49	49	47	46	45	43	42	37	40	39	43.5	49.2
25-Apr-04	38	A	39	33	35	37	36	36	40	44	47	48	49	51	51	49	48	45	45	47	42	40	32	36	42.2	50.9
26-Apr-04	A	34	34	33	23	17	7	7	19	28	33	38	38	37	37	37	36	39	40	37	34	36	38	A	31.1	40.4
27-Apr-04	31	27	28	40	47	50	43	39	40	39	38	42	47	48	46	45	43	40	41	39	35	35	A	17	39.1	49.7
28-Apr-04	21	16	13	19	18	15	13	23	29	35	39	43	47	48	50	47	46	46	44	38	27	A	2	3	29.7	50.2
29-Apr-04	13	20	20	16	9	9	11	18	36	44	46	47	49	51	51	53	53	52	48	43	A	25	26	21	33.1	53.1
30-Apr-04	27	34	35	35	31	26	26	32	34	36	46	51	56	57	57	58	59	60	58	A	41	39	41	43	42.6	60.2
Hourly Avg	28.2	28.5	N	27.8	24.7	20.5	17.5	20.2	28.6	35.2	40.0	44.7	47.4	48.8	49.2	49.5	48.9	48.1	45.7	39.2	32.3	31.9	30.3	29.5	N	0.0
Hourly Max	44.2	45.8	40.7	56.1	54.2	51.0	49.3	49.2	51.1	51.3	51.6	52.5	55.8	57.3	57.2	58.5	58.8	60.2	57.6	51.0	49.8	48.0	44.5	43.4		

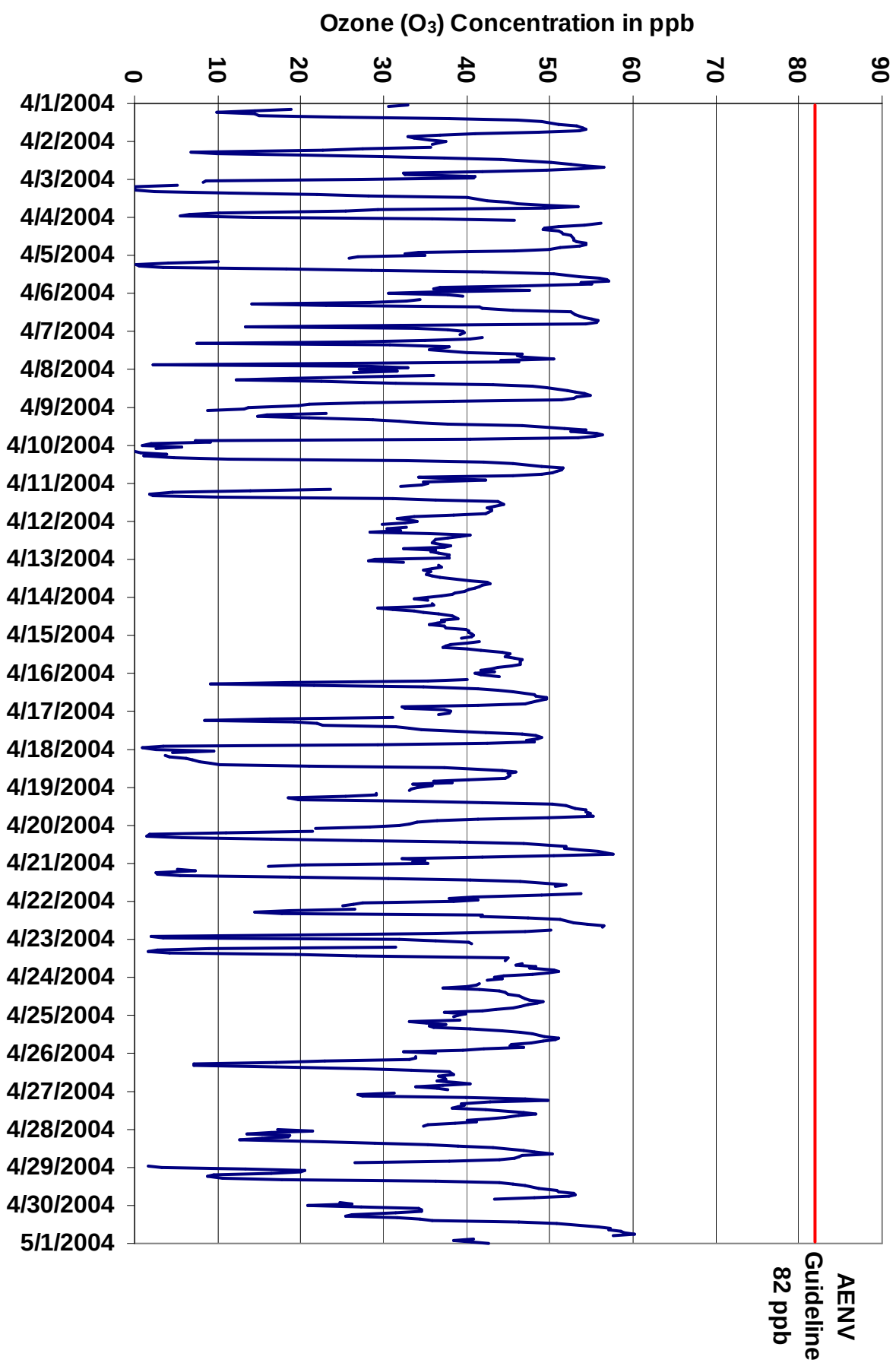


Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker

HOURLY MAXIMUM TABLE

Ozone (O₃)

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004

Summary

Maximum 1-hr Value:	61.8	ppb	30-Apr	17:00 18:00
Maximum 24-hr Value:	51.8	ppb	4-Apr	

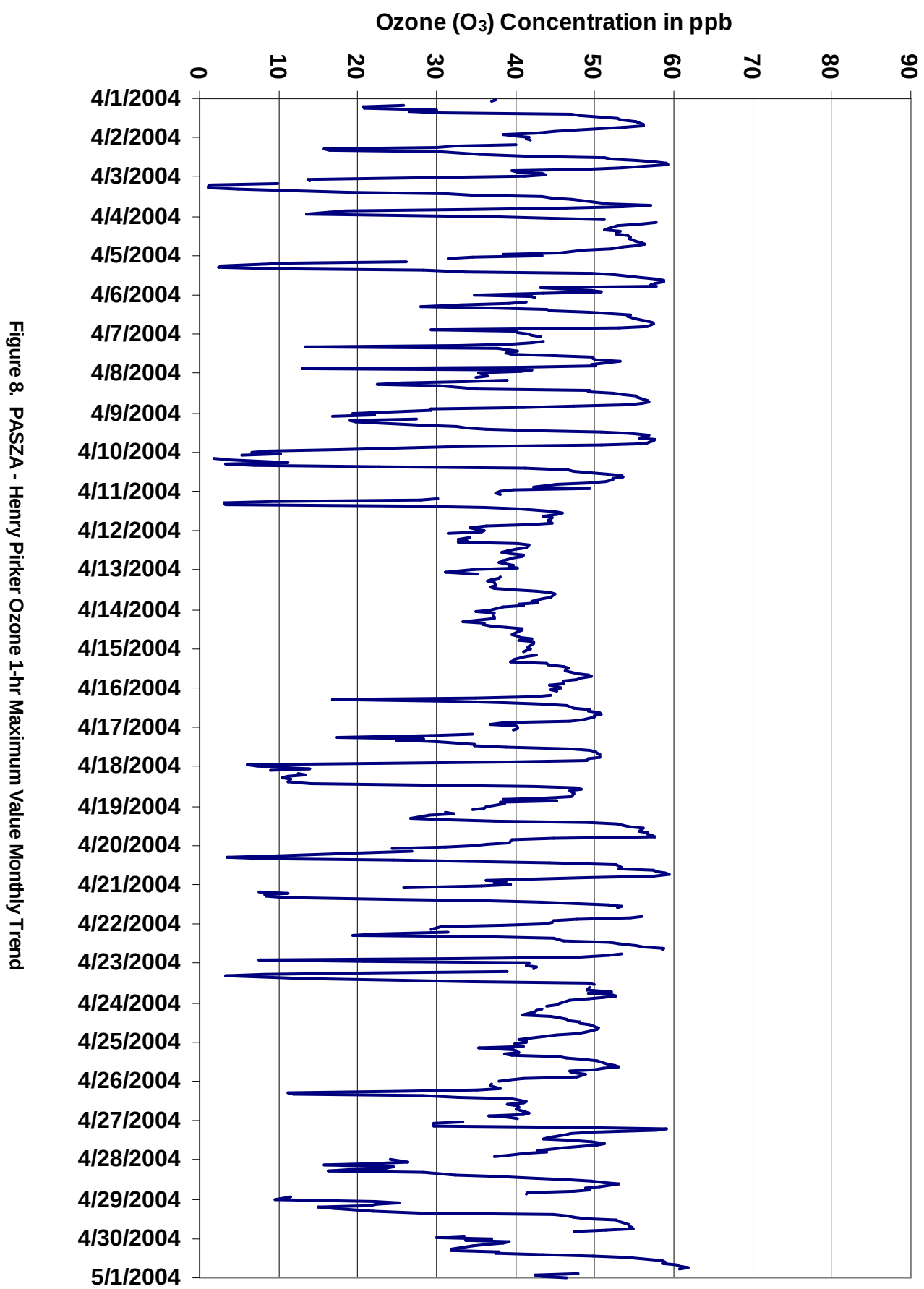
AIC Time:	31 hrs	Operational Time:	683 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average
	59	57	49	42	35	11	3	39.8 ppb

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-Apr-04	38	37	A	26	21	21	30	27	30	47	48	53	53	55	56	56	56	54	48	45	43	38	40	42	41.9	56.2
2-Apr-04	41	42	A	40	32	30	16	16	30	36	42	51	52	55	58	59	59	53	49	40	40	43	44	41	42.2	59.3
3-Apr-04	14	14	A	10	1	1	1	5	19	31	34	43	44	47	48	52	57	54	46	34	18	16	14	38	28.0	57.1
4-Apr-04	44	51	A	58	56	53	52	51	53	53	53	54	55	54	55	56	56	55	54	52	49	45	38	43	51.8	57.8
5-Apr-04	35	31	A	26	11	3	2	9	28	34	50	53	56	58	59	59	58	57	58	43	50	51	44	35	39.4	58.7
6-Apr-04	42	42	A	41	39	33	28	37	44	44	49	54	54	55	56	57	57	57	57	53	29	40	40	41	45.8	57.4
7-Apr-04	42	43	A	43	42	39	33	13	38	40	39	39	45	50	50	50	53	50	50	41	13	42	41	35	40.5	53.2
8-Apr-04	36	35	A	39	34	26	23	30	35	49	49	52	54	55	55	57	57	56	54	47	41	29	29	19	41.9	56.8
9-Apr-04	22	17	A	28	19	20	28	33	34	36	42	51	54	57	56	58	57	57	56	51	31	18	9	7	36.5	57.7
10-Apr-04	10	5	A	2	4	11	3	7	23	41	47	47	52	53	54	52	52	51	49	45	42	49	40	38	33.9	53.5
11-Apr-04	37	38	A	30	28	10	3	3	26	36	40	45	46	45	44	45	45	44	45	42	36	34	35	36	34.5	45.9
12-Apr-04	36	32	A	34	33	34	33	40	42	41	40	39	38	39	41	41	40	38	38	39	40	39	40	35	37.9	41.7
13-Apr-04	31	35	A	38	38	37	36	37	37	37	37	40	43	45	45	44	44	43	42	43	40	41	38	37	39.5	44.9
14-Apr-04	35	37	A	37	37	37	33	36	36	37	39	41	41	40	39	40	41	42	40	42	42	42	42	42	39.1	42.3
15-Apr-04	41	41	A	43	41	40	40	39	44	44	46	47	46	47	48	49	50	48	48	46	46	44	45	46	44.7	49.6
16-Apr-04	44	45	A	44	42	35	17	32	39	43	46	47	49	49	51	51	50	50	48	47	39	37	40	40	42.9	50.9
17-Apr-04	40	40	A	35	29	17	28	25	30	35	35	39	47	49	50	50	51	51	49	49	39	23	6	7	35.9	50.6
18-Apr-04	14	9	A	12	13	11	10	12	11	14	28	42	48	48	47	47	47	47	44	38	45	38	39	36	30.5	48.4
19-Apr-04	36	35	A	31	32	29	27	32	37	49	53	54	54	56	56	57	57	57	58	45	40	39	36	35	43.6	57.6
20-Apr-04	31	24	A	27	20	10	4	8	24	34	44	53	53	53	57	58	59	59	57	49	36	39	37	39	38.2	59.5
21-Apr-04	36	26	A	8	11	8	8	11	24	36	43	52	53	53	C	C	C	C	56	54	48	45	45	44	34.8	56.0
22-Apr-04	38	31	29	A	31	22	19	37	45	46	52	53	55	56	59	59	N	53	52	48	32	8	21	42	40.4	58.8
23-Apr-04	41	43	42	A	39	21	8	3	13	26	34	49	50	N	49	49	52	49	52	53	51	49	47	45	39.4	52.8
24-Apr-04	45	44	A	43	43	42	41	44	45	47	47	48	48	49	50	50	50	49	48	45	44	40	41	41	45.5	50.5
25-Apr-04	40	A	41	35	40	40	39	39	45	46	49	50	51	53	53	51	50	47	47	49	48	41	39	38	44.9	53.1
26-Apr-04	A	37	37	38	35	25	11	12	28	33	39	41	41	39	40	40	40	41	42	41	37	39	40	A	35.3	41.7
27-Apr-04	33	30	30	48	59	58	50	47	46	44	44	47	50	51	50	48	46	43	44	41	39	37	A	24	43.9	59.1
28-Apr-04	26	22	16	25	24	19	16	28	32	38	43	47	50	51	53	51	49	49	47	42	41	A	12	10	34.3	53.0
29-Apr-04	22	25	22	22	15	17	22	28	45	46	47	49	53	53	54	54	55	55	51	47	A	34	30	37	38.4	54.8
30-Apr-04	34	39	38	36	35	32	32	38	38	44	50	54	59	59	59	60	61	62	61	A	48	42	43	46	46.5	61.8
																									N	0.0
Hourly Avg	34.0	32.7	N	32.2	30.2	26.1	23.1	26.1	34.1	39.6	43.6	47.8	49.8	50.9	51.4	51.7	51.7	50.8	49.7	45.2	39.6	37.4	35.0	35.2		
Hourly Max	45.2	51.1	42.3	57.8	59.1	57.8	51.8	51.3	53.2	52.7	52.9	54.4	58.6	58.9	58.8	60.4	60.7	61.8	60.8	54.5	51.1	50.9	46.9	46.5		



EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Station: Henry Pirker

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004

Summary

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	57.9	ppb	30-Apr	19:00	20:00		

Guideline Limit: Canada Wide Standard

8-hr 65 ppb

Percentile	99	95	75	50	25	5	1
	53.5	51.4	43.3	36.8	28.9	12.8	4.0

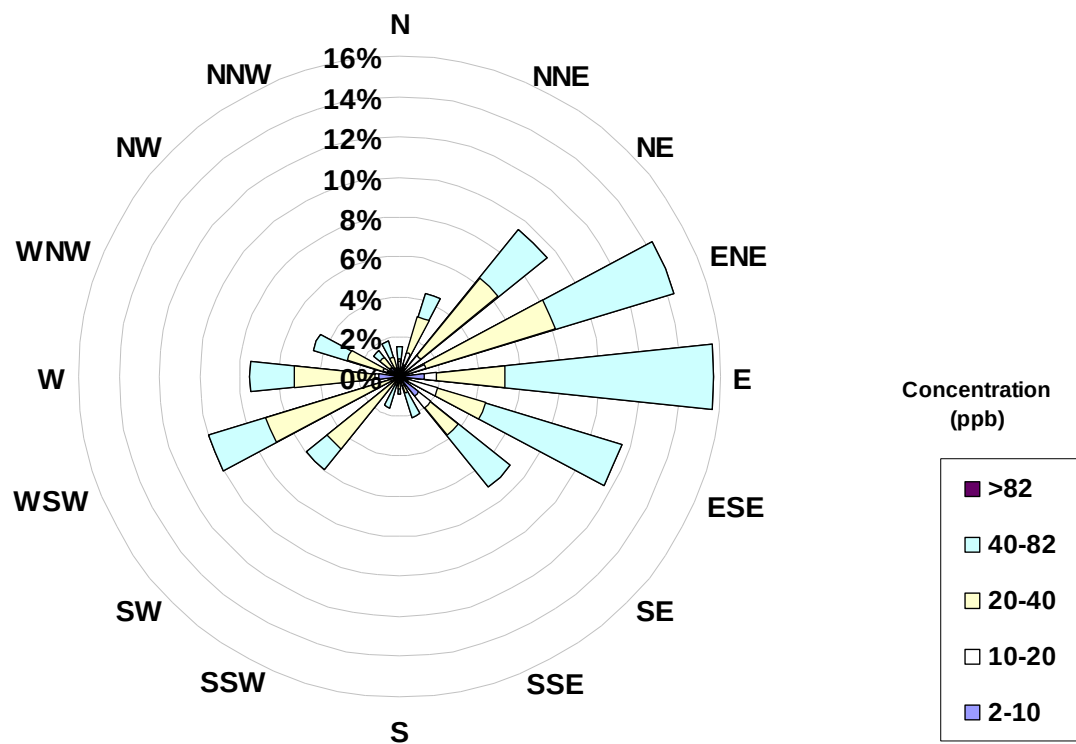
Status Flag Characters

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

Day Mountain Standard Time

Hour Start 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-Apr-04	33	50	48	46	43	41	39	19	18	19	23	26	31	36	41	46	50	51	51	49	47	44	42	40	38.9	51.3	
2-Apr-04	38	36	36	35	35	33	29	25	23	22	24	25	28	31	37	43	47	50	50	49	47	45	44	40	36.2	50.3	
3-Apr-04	34	29	27	23	19	13	7	3	4	6	9	13	18	24	30	36	41	44	44	43	39	34	29	24	24.7	44.4	
4-Apr-04	22	22	21	25	31	38	44	49	51	52	52	51	51	51	52	52	53	53	53	53	52	50	47	45	44.5	53.1	
5-Apr-04	41	38	36	30	24	19	15	10	9	9	13	18	25	32	39	45	50	53	54	52	50	49	46	43	33.3	53.6	
6-Apr-04	41	39	38	37	37	34	31	30	30	31	33	35	37	41	46	50	51	53	54	52	47	44	42	40	40.6	54.3	
7-Apr-04	38	36	34	35	39	39	37	33	32	31	32	31	31	33	35	40	43	43	44	43	39	36	35	32	36.3	44.5	
8-Apr-04	30	28	25	26	30	28	25	25	25	27	30	31	35	39	44	48	51	52	53	51	48	44	40	35	36.3	52.7	
9-Apr-04	30	24	20	18	16	16	16	18	21	24	26	29	33	38	42	46	49	51	53	52	47	41	35	28	32.3	53.3	
10-Apr-04	22	15	10	4	3	2	2	3	3	8	12	18	24	30	36	42	47	49	49	48	46	45	43	41	25.1	49.2	
11-Apr-04	39	37	36	34	31	25	21	16	13	12	15	18	22	27	32	37	41	42	43	42	41	40	38	37	30.8	43.1	
12-Apr-04	36	34	33	32	32	32	31	32	33	34	35	35	36	36	37	38	37	36	36	36	36	36	36	35	34.8	37.7	
13-Apr-04	35	34	34	34	34	34	33	34	35	36	36	36	36	37	38	39	40	40	41	41	41	41	40	39	37.0	41.3	
14-Apr-04	38	37	37	36	36	35	34	34	34	34	34	34	35	35	36	37	37	37	37	37	38	38	38	39	36.1	39.0	
15-Apr-04	40	40	40	40	40	40	40	39	39	39	40	40	41	42	43	44	45	46	46	46	45	45	45	44	42.1	45.9	
16-Apr-04	43	43	43	42	41	38	33	30	29	29	31	31	33	37	42	45	47	48	48	48	46	44	42	41	39.6	48.1	
17-Apr-04	39	38	37	35	33	29	27	24	22	22	23	23	27	31	35	38	42	44	46	47	45	40	34	28	33.7	46.5	
18-Apr-04	23	18	13	8	4	5	5	6	6	7	9	13	18	23	28	32	37	41	43	43	43	41	40	38	22.6	43.4	
19-Apr-04	37	36	35	34	33	31	29	27	27	28	31	34	37	40	45	49	52	54	53	52	50	48	45	42	39.5	53.6	
20-Apr-04	39	35	32	30	26	21	17	13	11	12	16	19	24	30	37	43	48	52	53	53	50	48	45	43	33.1	53.1	
21-Apr-04	38	33	31	25	22	17	13	9	8	10	14	19	25	31	35	N	N	N	N	N	N	N	N	N	N	N	38.3
22-Apr-04	41	39	36	34	32	29	25	22	24	27	30	32	36	40	45	50	52	53	53	50	46	38	31	27	37.2	52.7	
23-Apr-04	28	27	26	25	27	28	27	23	19	16	14	17	19	21	27	33	39	44	47	48	49	48	48	48	31.1	48.5	
24-Apr-04	47	47	46	45	44	42	41	41	41	41	42	42	43	44	46	47	47	47	47	47	46	45	44	43	44.4	47.4	
25-Apr-04	42	41	40	38	37	37	37	36	37	38	39	40	42	44	46	47	48	48	48	48	47	46	44	42	42.2	48.5	
26-Apr-04	41	39	38	36	33	30	26	22	22	21	21	22	23	26	30	33	36	37	38	38	37	37	37	37	31.7	41.1	
27-Apr-04	36	35	33	33	35	37	38	38	39	41	42	42	42	42	43	43	44	44	44	44	42	40	40	36	39.7	44.0	
28-Apr-04	33	29	25	22	20	17	17	17	18	21	24	27	31	35	39	42	44	46	46	46	43	42	36	29	31.3	46.4	
29-Apr-04	25	21	18	15	12	12	13	15	17	20	24	27	32	38	43	47	49	50	51	50	50	46	43	38	31.5	50.5	
30-Apr-04	35	32	30	29	29	29	29	31	32	32	33	35	38	42	46	49	53	56	57	58	56	53	51	48	41.0	57.9	
																									N	0.0	
Hourly Avg	35.5	33.7	31.9	30.3	29.3	27.8	26.1	24.2	24.1	24.9	26.8	28.9	31.8	35.2	39.1	42.9	45.4	47.0	47.7	47.1	45.2	43.1	40.6	38.0			
Hourly Max	47.4	49.8	48.0	45.5	43.6	42.5	43.8	48.8	50.9	51.7	51.7	51.3	51.1	51.3	51.8	52.5	52.9	55.6	57.0	57.9	55.8	53.1	50.7	48.5			

Concentration Rose for the 1-hr O₃ Average Concentration Occurrences at the Henry Pirker Site for April 2004



Frequency Distribution of O ₃ in ppb			
Range			Frequency (hrs)
0	<	2	15
2	to	10	53
10	to	20	49
20	to	40	269
40	to	82	297
	>	82	0
Total Non-Zero Values			683

PASZA - Henry Pirker Carbon Monoxide Monthly Summary

Station: Henry Pirker

HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004

Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	1.32 ppm 5-Apr 6:00 7:00
Maximum 24-hr Average:	0.56 ppm 21-Apr

Guideline Limit: Alberta Environment: 1-hr 13 ppm 24-hr na ppm

AIC Time:				31 hrs		Operational Time:				682 hrs	
Calibration Time:				4 hrs		AMD Operational Uptime:				99.6%	
Percentile		99	95	75	50	25	5	1	Average		
		1.0	0.6	0.3	0.3	0.2	0.2	0.1	0.3 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-Apr-04	0.2	0.2	A	0.3	0.3	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.27	0.45
2-Apr-04	0.2	0.2	A	0.2	0.2	0.2	0.4	0.5	0.4	0.3	0.3	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	0.28	0.48
3-Apr-04	0.3	0.3	A	0.3	0.4	0.6	0.7	0.9	0.8	0.6	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.6	0.6	0.5	0.4	0.45	0.94
4-Apr-04	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	0.3	0.3	0.3	0.21	0.27
5-Apr-04	0.3	0.2	A	0.2	0.3	0.7	1.3	1.0	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.2	0.3	0.3	0.38	1.32
6-Apr-04	0.2	0.2	A	0.2	0.2	0.2	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.7	0.4	0.3	0.3	0.29	0.69
7-Apr-04	0.3	0.2	A	0.2	0.2	0.3	0.4	1.0	0.5	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.9	0.4	0.3	0.3	0.38	1.05
8-Apr-04	0.2	0.3	A	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.30	0.37
9-Apr-04	0.3	0.5	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	0.2	0.2	0.2	0.3	0.4	1.0	0.7	0.8	0.6	0.37	1.00
10-Apr-04	0.3	0.3	A	0.3	0.3	0.3	0.3	0.4	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.29	0.47
11-Apr-04	0.3	0.3	A	0.3	0.3	0.4	0.6	0.6	0.6	0.3	0.3	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	0.33	0.64
12-Apr-04	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	P	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.28	0.33
13-Apr-04	0.2	0.2	A	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	0.2	0.27	0.35
14-Apr-04	0.2	0.2	A	0.2	0.2	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.31	0.47
15-Apr-04	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.24	0.27
16-Apr-04	0.2	0.2	A	0.2	0.2	0.4	0.7	0.4	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.29	0.69
17-Apr-04	0.2	0.2	A	0.3	0.3	0.3	0.4	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	0.4	0.8	0.8	0.7	0.38	0.84
18-Apr-04	0.5	0.5	A	0.4	0.3	0.4	0.3	0.3	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.25	0.48
19-Apr-04	0.0	0.0	A	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.16	0.31
20-Apr-04	0.3	0.3	A	0.3	0.4	0.6	0.7	0.7	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.4	0.4	0.4	0.38	0.75
21-Apr-04	0.4	0.3	A	0.3	0.3	0.4	0.7	0.7	0.6	0.6	0.7	0.7	0.8	0.9	0.9	1.0	1.0	C	C	C	C	0.1	0.1	0.1	0.56	1.04
22-Apr-04	0.2	0.2	0.2	A	0.2	0.2	0.3	0.4	0.2	0.2	0.1	0.1	0.1	0.2	0.3	0.3	N	0.2	0.2	0.2	0.4	0.7	0.8	0.3	0.27	0.82
23-Apr-04	0.2	0.2	0.2	A	0.3	0.5	0.5	1.3	0.9	0.5	0.3	0.2	0.2	N	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.34	1.27
24-Apr-04	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	0.2	0.19	0.23
25-Apr-04	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	0.3	0.2	0.2	0.2	0.23	0.25
26-Apr-04	A	0.2	0.2	0.2	0.3	0.3	0.5	0.6	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	A	0.28	0.57
27-Apr-04	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	A	0.2	0.24	0.29
28-Apr-04	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	0.2	0.2	0.2	0.2	A	0.4	0.3	0.22	0.36
29-Apr-04	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.3	0.4	0.4	0.24	0.40
30-Apr-04	0.3	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.3	0.3	0.2	0.2	0.22	0.35
																									N	0.00
Hourly Avg	0.25	0.25	N	0.24	0.25	0.32	0.42	0.46	0.35	0.29	0.27	0.26	0.25	0.26	0.27	0.27	0.28	0.26	0.26	0.30	0.37	0.34	0.32	0.29		
Hourly Max	0.48	0.50	0.23	0.38	0.41	0.66	1.32	1.27	0.93	0.59	0.67	0.73	0.82	0.89	0.94	0.99	1.04	0.36	0.38	0.51	1.00	0.84	0.83	0.71		

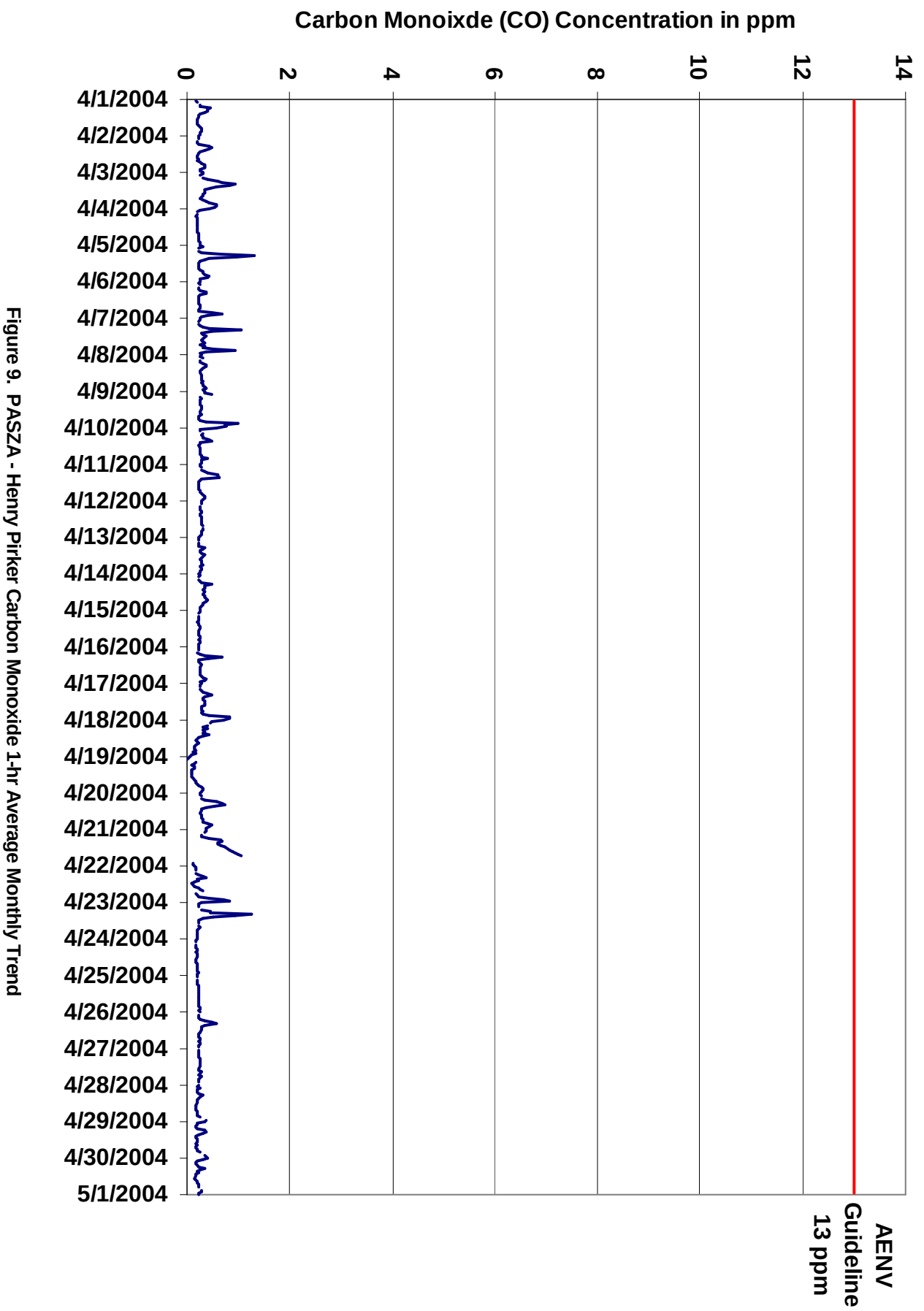


Figure 9. PASZA - Henry Pirkker Carbon Monoxide 1-hr Average Monthly Trend

Station: Henry Pirker

HOURLY MAXIMUM TABLE

Carbon Monoxide (CO)

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004

Summary

Maximum 1-hr Value:	4.9	ppm	5-Apr	6:00 7:00
Maximum 24-hr Value:	0.8	ppm	5-Apr	

AIC Time:	31 hrs	Operational Time:	682 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	99.6%					
Percentile	99	95	75	50	25	5	1	Average
	1.8	1.0	0.5	0.4	0.3	0.3	0.2	0.5 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-Apr-04	0.3	0.3	A	0.4	0.4	1.7	0.7	0.8	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.44	1.65
2-Apr-04	0.3	0.3	A	0.3	0.3	0.4	1.4	1.8	0.6	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.6	0.5	0.5	0.4	0.4	0.6	0.51	1.80
3-Apr-04	0.5	0.4	A	0.6	0.5	1.1	0.9	1.8	1.1	0.8	0.6	0.5	0.4	0.4	0.4	0.4	0.5	0.7	0.5	0.8	1.1	1.1	1.0	0.9	0.74	1.81
4-Apr-04	0.4	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	0.4	0.4	0.4	0.32	0.43
5-Apr-04	0.4	0.4	A	0.3	0.4	2.4	4.9	1.9	0.7	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.3	0.4	0.3	0.77	4.91
6-Apr-04	0.3	0.3	A	0.4	0.4	0.3	0.6	0.6	0.4	0.3	0.4	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.4	0.9	1.1	0.6	0.4	0.3	0.44	1.07
7-Apr-04	0.5	0.4	A	0.3	0.3	0.5	0.7	1.7	2.9	0.4	0.6	0.4	0.4	0.6	0.5	0.4	0.4	0.5	0.5	1.0	2.6	0.8	0.4	0.4	0.75	2.93
8-Apr-04	0.4	0.5	A	0.4	0.4	0.9	0.5	0.7	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.5	0.5	0.6	0.5	0.6	0.47	0.95
9-Apr-04	0.8	1.1	A	0.3	0.4	0.4	0.5	0.4	0.3	0.4	0.4	0.8	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.7	1.7	1.1	1.2	0.9	0.61	1.67
10-Apr-04	0.5	0.4	A	0.8	0.4	1.1	0.8	1.0	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.4	0.4	0.4	0.4	0.50	1.11
11-Apr-04	0.4	0.4	A	0.4	1.0	0.6	0.9	0.7	0.8	0.5	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.48	1.00
12-Apr-04	0.4	0.4	A	0.4	0.3	0.4	0.6	0.4	0.3	0.4	0.4	0.5	0.4	0.4	0.5	0.9	P	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.43	0.93
13-Apr-04	0.3	0.3	A	0.3	0.3	0.3	0.7	0.6	0.4	0.4	0.7	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.3	0.4	0.4	0.3	0.42	0.71
14-Apr-04	0.4	0.4	A	0.3	0.5	0.4	1.7	0.9	1.2	0.9	0.6	0.6	0.5	0.5	0.6	0.6	0.5	0.5	0.4	0.9	0.9	0.4	0.3	0.4	0.63	1.69
15-Apr-04	0.4	0.3	A	0.3	0.5	0.5	0.4	0.3	0.3	0.3	0.8	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.3	0.4	0.3	0.4	0.5	0.3	0.39	0.79
16-Apr-04	0.3	0.4	A	0.3	0.4	0.7	1.8	0.8	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.4	0.5	0.4	0.5	0.6	0.5	0.3	0.4	0.48	1.80
17-Apr-04	0.3	0.3	A	0.4	0.4	0.6	0.7	0.7	0.6	0.5	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.6	1.1	1.0	0.9	0.54	1.14
18-Apr-04	0.7	0.6	A	0.5	0.4	1.2	0.4	0.5	0.4	0.6	0.6	0.4	0.3	0.5	0.5	0.3	0.2	0.2	0.3	0.3	0.3	0.6	0.2	0.2	0.44	1.20
19-Apr-04	0.1	0.5	A	0.8	0.7	0.8	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.3	0.4	0.5	0.4	0.4	0.5	0.4	0.37	0.85
20-Apr-04	0.4	0.4	A	0.4	1.0	1.7	2.5	1.2	0.8	0.5	0.4	0.4	0.4	0.4	0.5	0.6	0.6	0.6	0.4	0.6	0.6	0.6	0.6	0.5	0.69	2.46
21-Apr-04	0.7	0.4	A	0.4	0.5	0.9	1.7	1.0	0.8	0.7	0.8	0.9	0.9	1.0	1.0	1.1	1.1	C	C	C	C	0.3	0.2	0.2	0.77	1.68
22-Apr-04	0.3	0.3	0.3	A	0.3	0.6	0.7	1.0	0.4	0.3	0.4	0.2	0.3	0.4	0.4	0.4	N	0.3	0.3	0.4	0.8	1.0	1.2	0.4	0.48	1.15
23-Apr-04	0.4	0.3	0.3	A	0.4	0.8	0.7	1.5	1.9	1.0	0.8	0.3	0.3	N	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.55	1.92
24-Apr-04	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	0.3	0.30	0.34
25-Apr-04	0.3	A	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.34	0.43
26-Apr-04	A	0.3	0.3	0.4	0.4	0.6	0.8	1.0	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	A	0.42	1.01
27-Apr-04	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.7	0.4	0.4	0.4	0.3	0.4	0.7	0.5	0.5	0.9	0.7	0.4	0.5	0.3	A	0.4	0.44	0.87
28-Apr-04	0.3	0.4	0.3	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	0.3	0.3	0.3	0.4	A	0.5	0.9	0.35	0.89
29-Apr-04	0.3	0.3	0.3	0.3	0.3	0.8	0.6	0.4	0.4	0.4	0.3	0.6	0.6	0.3	0.5	0.3	0.3	0.3	0.3	0.4	A	0.5	0.6	0.6	0.41	0.78
30-Apr-04	0.7	0.3	0.3	0.3	0.7	0.5	0.6	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.5	0.3	0.4	0.3	0.4	A	0.4	0.4	0.4	0.4	0.39	0.70
																									N	0.00
Hourly Avg	0.41	0.39	N	0.38	0.44	0.73	0.93	0.81	0.64	0.44	0.43	0.39	0.38	0.39	0.42	0.41	0.41	0.42	0.41	0.50	0.64	0.52	0.48	0.45		
Hourly Max	0.84	1.07	0.32	0.85	1.00	2.38	4.91	1.90	2.93	0.99	0.82	0.86	0.94	0.99	1.04	1.08	1.13	0.87	0.74	0.97	2.64	1.14	1.22	0.95		

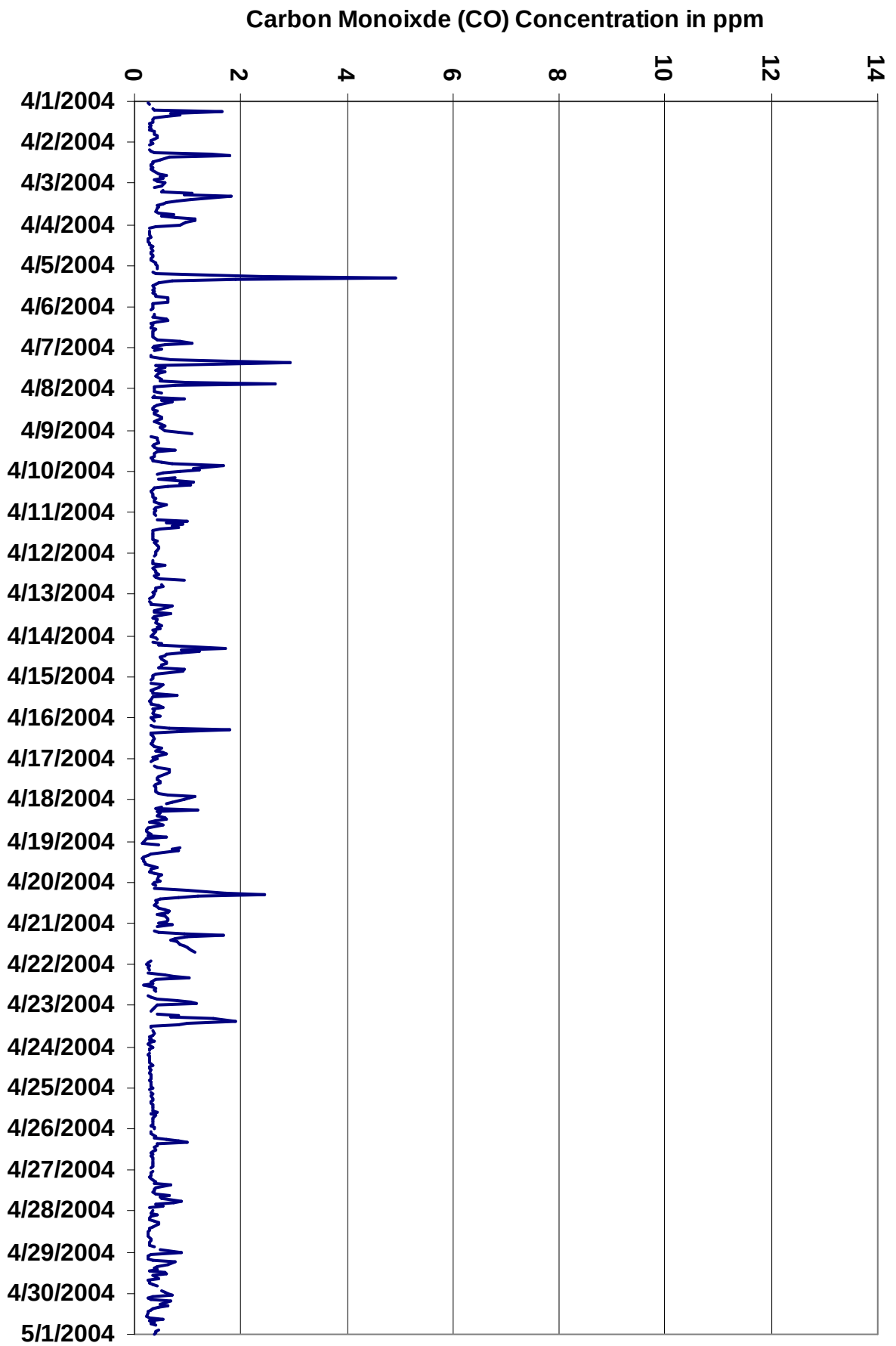


Figure 10. PASZA - Henry Pirkler Carbon Monoxide 1-hr Maximum Value Monthly Trend

Station: Henry Pirker

EIGHT HOUR RUNNING AVERAGE TABLE**Carbon Monoxide (CO)**

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004**Summary**

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	0.87 ppm 21-Apr 17:00 18:00

Guideline Limit: Alberta Environment:

8-hr 5 ppm

Percentile	99	95	75	50	25	5	1
	0.60	0.52	0.33	0.27	0.23	0.18	0.10

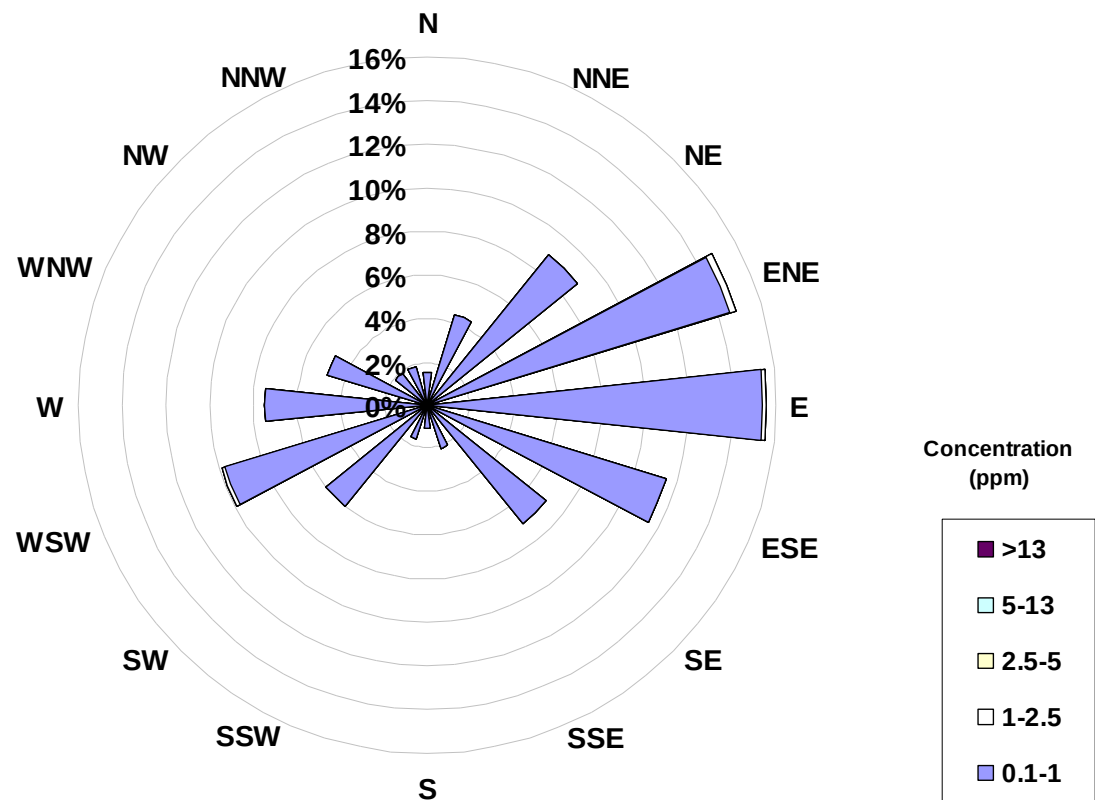
Status Flag Characters

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-Apr-04	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	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.27	0.34
2-Apr-04	0.3	0.3	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	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.27	0.33
3-Apr-04	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.43	0.62
4-Apr-04	0.4	0.4	0.4	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	0.2	0.2	0.2	0.2	0.25	0.43
5-Apr-04	0.2	0.2	0.3	0.3	0.3	0.3	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.37	0.60
6-Apr-04	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.28	0.36
7-Apr-04	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.37	0.44
8-Apr-04	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.31	0.42
9-Apr-04	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.32	0.52
10-Apr-04	0.5	0.5	0.6	0.6	0.5	0.4	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	0.3	0.3	0.3	0.3	0.3	0.35	0.56
11-Apr-04	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.32	0.45
12-Apr-04	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	0.3	0.3	0.3	0.3	0.28	0.31
13-Apr-04	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	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.27	0.29
14-Apr-04	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	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.31	0.35
15-Apr-04	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	0.2	0.24	0.28
16-Apr-04	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	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.28	0.34
17-Apr-04	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.33	0.50
18-Apr-04	0.5	0.5	0.6	0.6	0.6	0.5	0.4	0.4	0.4	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	0.1	0.1	0.33	0.59
19-Apr-04	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.13	0.26
20-Apr-04	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.36	0.51
21-Apr-04	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.9	N	N	N	N	N	N	0.54	0.87
22-Apr-04	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	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.23	0.41
23-Apr-04	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.39	0.60
24-Apr-04	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.21
25-Apr-04	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	0.24
26-Apr-04	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.28	0.35
27-Apr-04	0.2	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	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.24	0.26
28-Apr-04	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.25
29-Apr-04	0.2	0.2	0.2	0.2	0.2	0.3	0.3	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	0.3	0.3	0.23	0.28
30-Apr-04	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	0.2	0.2	0.2	0.2	0.2	0.2	0.23	0.30
																									N	0.00
Hourly Avg	0.30	0.30	0.30	0.29	0.27	0.27	0.29	0.31	0.32	0.33	0.33	0.33	0.33	0.32	0.30	0.28	0.27	0.27	0.25	0.25	0.27	0.28	0.29	0.30		
Hourly Max	0.53	0.55	0.58	0.59	0.58	0.51	0.47	0.57	0.59	0.62	0.60	0.60	0.65	0.70	0.74	0.78	0.83	0.87	0.34	0.34	0.42	0.42	0.48	0.52		

Concentration Rose for the 1-hr CO Average Concentration Occurrences at the Henry Pirker Site for April 2004



Frequency Distribution of CO in ppm			
Range			Frequency (hrs)
0	<	0.1	11
0.1	to	1	667
1	to	2.5	4
2.5	to	5	0
5	to	13	0
	>	13	0
Total Non-Zero Values			682

PASZA - Henry Pirker Total Hydrocarbon Monthly Summary

Station: Henry Pirker

HOURLY AVERAGE TABLE

Total HydroCarbons (THC)

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004
Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	3.3	ppm	3-Apr	7:00 8:00
Maximum 24-hr Average:	2.5	ppm	10-Apr	

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

AIC Time:		31 hrs			Operational Time:		682 hrs	
Calibration Time:		4 hrs			AMD Operational Uptime:		99.6%	
Percentile	99	95	75	50	25	5	1	Average
	3.0	2.4	2.1	2.0	1.9	1.8	1.8	2.1 ppb

Status Flag Characters

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

Day Mountain Standard Time

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-Apr-04	2.1	2.1	A	2.1	2.2	2.5	2.2	2.2	2.1	2.0	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.06	2.47
2-Apr-04	2.0	2.1	A	2.1	2.1	2.1	2.4	2.5	2.3	2.3	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.1	2.12	2.45
3-Apr-04	2.2	2.3	A	2.7	2.7	3.0	3.2	3.3	2.8	2.3	2.2	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.2	2.3	2.2	2.1	2.30	3.30
4-Apr-04	1.9	1.9	A	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.95	2.04
5-Apr-04	2.1	2.1	A	2.3	2.4	2.6	2.6	2.3	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	2.0	2.0	2.09	2.64
6-Apr-04	2.0	2.0	A	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.1	2.1	2.0	2.05	2.24
7-Apr-04	2.1	2.0	A	2.0	2.0	2.0	2.2	2.4	2.1	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.6	2.1	2.0	2.0	2.09	2.61
8-Apr-04	2.0	2.0	A	2.0	2.0	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	1.9	1.9	2.0	2.2	2.2	2.1	2.01	2.23
9-Apr-04	2.2	2.2	A	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.2	2.3	2.3	2.3	2.3	2.4	2.5	3.1	2.9	3.0	2.8	2.37	3.09
10-Apr-04	2.8	2.8	A	3.2	3.2	3.0	2.9	3.1	2.9	2.5	2.4	2.4	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.49	3.24
11-Apr-04	2.0	2.0	A	2.1	2.4	2.7	2.9	2.7	2.8	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.9	1.9	1.9	1.9	2.07	2.93
12-Apr-04	2.0	2.0	A	2.0	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.99	2.05
13-Apr-04	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.1	2.0	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.0	2.04	2.13
14-Apr-04	2.0	2.0	A	2.0	2.0	2.0	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.00	2.07
15-Apr-04	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	2.0	2.0	2.0	2.0	2.0	2.0	2.02	2.05
16-Apr-04	2.0	2.1	A	2.1	2.1	2.2	2.3	2.3	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.13	2.33
17-Apr-04	2.1	2.1	A	2.1	2.2	2.2	2.2	2.3	2.4	2.2	2.1	2.1	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.3	2.4	2.4	2.13	2.44
18-Apr-04	2.2	2.4	A	2.3	2.3	2.3	2.3	2.3	2.2	2.3	2.2	2.1	2.0	1.9	2.0	2.0	2.0	1.9	2.0	2.1	2.0	1.9	1.9	1.9	2.10	2.36
19-Apr-04	2.0	2.1	A	2.1	2.1	2.2	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.0	2.0	2.0	2.01	2.24
20-Apr-04	2.0	2.2	A	2.1	2.2	2.3	2.2	2.2	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.04	2.29
21-Apr-04	2.2	2.2	A	2.2	2.2	2.2	2.3	2.3	2.1	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.8	1.9	1.9	2.0	2.0	2.0	2.00	2.31
22-Apr-04	2.1	2.1	A	2.2	2.2	2.3	2.4	C	C	C	C	1.9	1.9	1.9	1.9	M	N	1.9	2.0	2.0	2.1	2.5	2.7	2.0	N	2.70
23-Apr-04	2.0	2.0	2.0	A	2.0	2.1	2.1	2.7	2.4	2.2	2.1	1.8	1.8	N	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.98	2.65
24-Apr-04	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.91	1.93
25-Apr-04	1.9	A	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.92	1.97
26-Apr-04	A	1.9	1.9	1.9	2.0	2.1	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	A	1.92	2.13
27-Apr-04	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	A	2.0	1.81	2.02
28-Apr-04	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	A	2.1	2.1	1.94	2.14
29-Apr-04	2.1	2.2	2.2	2.2	2.3	2.2	2.3	2.2	2.1	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	2.1	2.1	2.06	2.29
30-Apr-04	2.3	2.2	2.1	2.0	2.1	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	A	2.0	2.0	2.0	2.0	2.03	2.32
																									N	0.00
Hourly Avg	2.07	2.09	N	2.12	2.15	2.21	2.23	2.24	2.16	2.07	2.03	1.99	1.97	1.97	1.96	1.95	1.95	1.95	1.96	2.00	2.07	2.07	2.09	2.06		
Hourly Max	2.77	2.83	2.22	3.18	3.24	3.04	3.18	3.30	2.93	2.50	2.42	2.37	2.32	2.27	2.26	2.28	2.31	2.33	2.35	2.45	3.09	2.90	2.97	2.81		

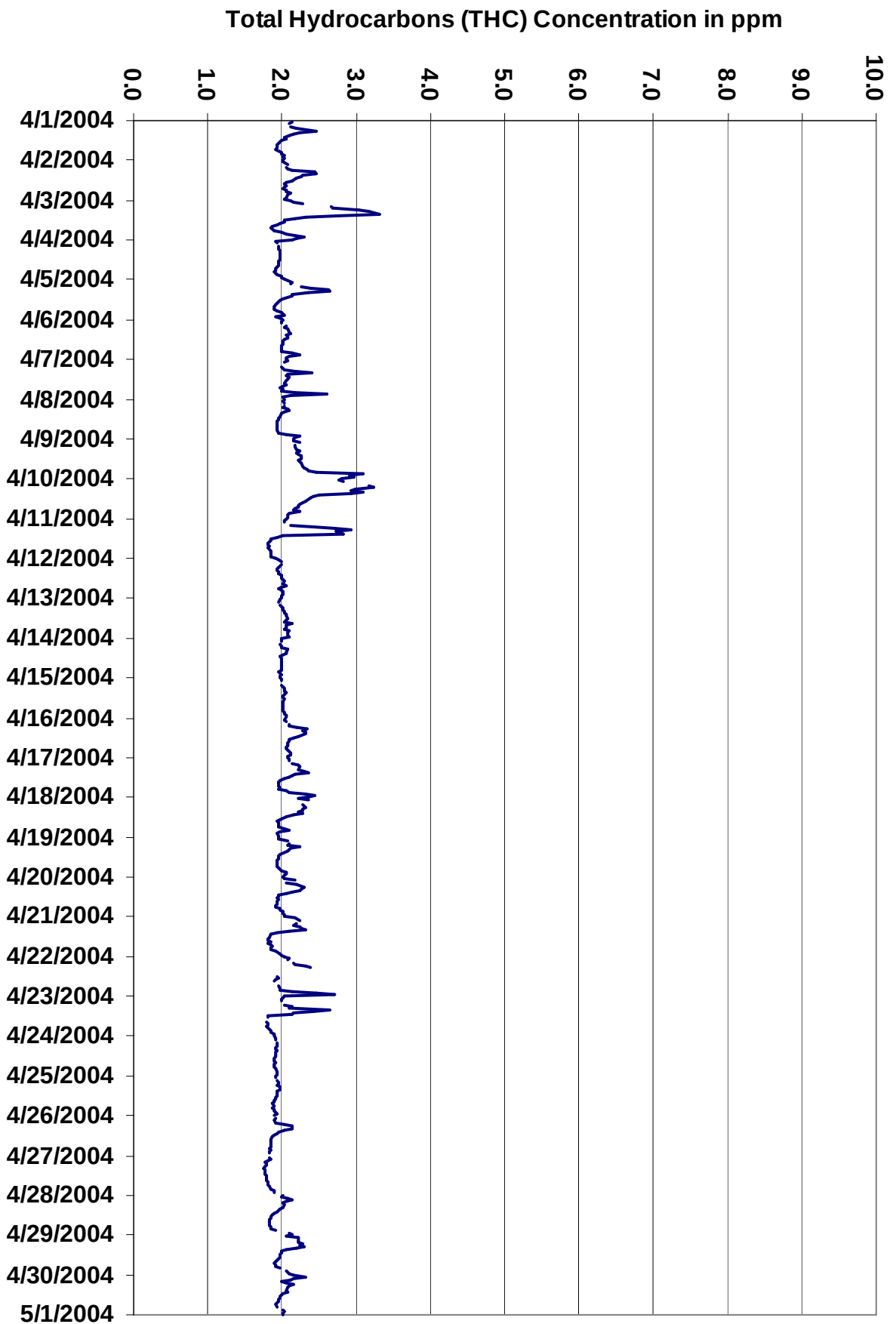


Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

Station: Henry Pirker

Station Owner: PASZA

HOURLY MAXIMUM TABLE

Total HydroCarbons (THC)

Monitoring Dates: April 1, 2004 to May 1, 2004

Summary

Maximum 1-hr Value:	4.4	ppm	3-Apr	3:00 4:00
Maximum 24-hr Value:	2.7	ppm	3-Apr	

AIC Time:	31 hrs	Operational Time:	682 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	99.6%					
Percentile	99	95	75	50	25	5	1	Average
	3.7	3.0	2.2	2.1	2.0	1.9	1.8	2.2 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-Apr-04	2.2	2.1	A	2.3	2.3	3.2	2.4	2.5	2.1	2.1	2.9	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.20	3.25
2-Apr-04	2.1	2.3	A	2.1	2.2	2.3	3.5	2.8	2.4	2.3	2.2	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.2	2.25	3.48
3-Apr-04	2.2	2.5	A	4.4	3.0	4.0	3.8	4.2	3.3	2.6	2.3	2.2	2.1	2.1	2.0	1.9	1.9	2.1	2.4	2.2	2.5	3.2	2.4	2.8	2.69	4.36
4-Apr-04	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	1.9	1.9	1.9	2.0	2.0	2.1	2.3	2.00	2.28
5-Apr-04	2.2	2.2	A	2.5	2.7	3.9	3.0	2.7	2.2	2.3	2.1	2.0	2.0	2.0	1.9	2.0	2.0	1.9	2.0	2.1	2.2	2.0	2.0	2.0	2.26	3.88
6-Apr-04	2.0	2.0	A	2.2	2.1	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.3	2.7	2.1	2.1	2.1	2.12	2.70
7-Apr-04	2.1	2.1	A	2.0	2.0	2.1	3.1	3.1	2.3	2.1	2.3	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.4	3.3	3.2	2.1	2.1	2.31	3.25
8-Apr-04	2.1	2.1	A	2.1	2.1	2.2	2.4	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.4	2.6	2.2	2.10	2.64
9-Apr-04	2.3	2.4	A	2.2	2.2	2.3	2.4	2.2	2.3	2.3	2.3	2.4	2.3	2.3	2.4	2.3	2.3	2.4	2.4	2.7	3.5	3.2	3.6	3.0	2.50	3.56
10-Apr-04	2.9	2.9	A	3.3	3.6	3.3	3.1	3.2	3.1	2.6	2.5	2.4	2.4	2.3	2.3	2.3	2.4	2.3	2.2	2.4	2.2	2.1	2.1	2.1	2.61	3.58
11-Apr-04	2.1	2.1	A	2.7	3.0	3.3	3.7	3.0	3.5	2.2	2.0	1.9	1.9	1.9	1.8	1.9	2.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.28	3.75
12-Apr-04	2.1	2.1	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.6	2.2	2.1	2.0	2.1	2.1	2.1	2.0	2.1	2.07	2.56
13-Apr-04	2.0	2.0	A	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.5	2.1	2.1	2.1	2.1	2.3	2.1	2.1	2.4	2.0	2.12	2.52
14-Apr-04	2.0	2.0	A	2.0	2.0	2.0	2.7	2.1	2.2	2.1	2.0	2.1	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.08	2.70
15-Apr-04	2.0	2.0	A	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	2.1	2.0	2.1	2.0	2.0	2.1	2.1	2.1	2.06	2.15
16-Apr-04	2.1	2.1	A	2.2	2.2	2.4	2.7	2.3	2.4	2.4	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.20	2.69
17-Apr-04	2.1	2.1	A	2.2	2.3	2.4	2.4	2.4	2.5	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.2	2.6	2.7	2.8	2.24	2.78
18-Apr-04	2.3	2.7	A	2.6	2.3	2.5	2.4	2.4	2.3	2.3	2.4	2.1	2.1	2.0	2.0	2.0	2.1	2.0	2.2	2.3	2.2	2.1	2.0	2.0	2.24	2.68
19-Apr-04	2.0	2.3	A	2.2	2.1	2.4	2.2	2.2	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.1	2.1	2.08	2.35
20-Apr-04	2.1	2.4	A	2.2	2.4	2.6	2.6	2.3	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.1	2.2	2.1	2.1	2.1	2.1	2.15	2.64
21-Apr-04	2.3	2.3	A	2.3	2.2	2.3	2.4	2.5	2.2	2.0	1.9	1.9	1.9	1.9	1.9	1.8	3.7	1.9	1.9	1.9	2.2	2.0	2.1	2.2	2.16	3.67
22-Apr-04	2.4	2.1	A	2.2	2.2	2.5	2.5	C	C	C	C	2.0	2.2	1.9	1.9	M	N	2.0	2.0	2.0	3.2	3.0	3.2	2.2	N	3.20
23-Apr-04	2.1	2.0	2.0	A	2.2	2.3	2.2	2.8	3.6	2.5	2.2	1.9	2.0	N	1.9	1.8	1.9	1.8	1.8	1.8	1.9	1.9	1.9	1.9	2.12	3.65
24-Apr-04	1.9	1.9	A	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	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.94	1.96
25-Apr-04	1.9	A	2.0	2.0	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	1.9	2.0	1.9	1.95	2.01
26-Apr-04	A	1.9	1.9	2.0	2.2	2.2	2.3	2.4	2.1	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	A	1.98	2.36
27-Apr-04	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.9	1.9	1.9	1.9	A	2.1	1.85	2.06
28-Apr-04	2.1	2.1	2.2	2.1	2.0	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	2.0	A	2.2	2.3	1.99	2.31
29-Apr-04	2.1	2.3	2.3	2.3	2.3	2.3	2.5	2.2	2.2	2.0	2.1	2.1	2.1	2.0	2.1	2.0	1.9	2.0	2.0	2.1	A	2.1	2.2	2.3	2.15	2.50
30-Apr-04	2.9	2.6	2.3	2.0	2.3	2.3	2.3	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	A	2.1	2.1	2.0	2.1	2.15	2.95
																									N	0.00
Hourly Avg	2.16	2.18	N	2.27	2.26	2.44	2.48	2.41	2.32	2.15	2.13	2.05	2.03	2.00	2.02	2.01	2.07	2.00	2.03	2.10	2.24	2.22	2.21	2.17		
Hourly Max	2.95	2.89	2.32	4.36	3.58	3.97	3.79	4.20	3.65	2.61	2.94	2.44	2.36	2.29	2.52	2.56	3.67	2.36	2.40	2.69	3.49	3.20	3.56	2.98		

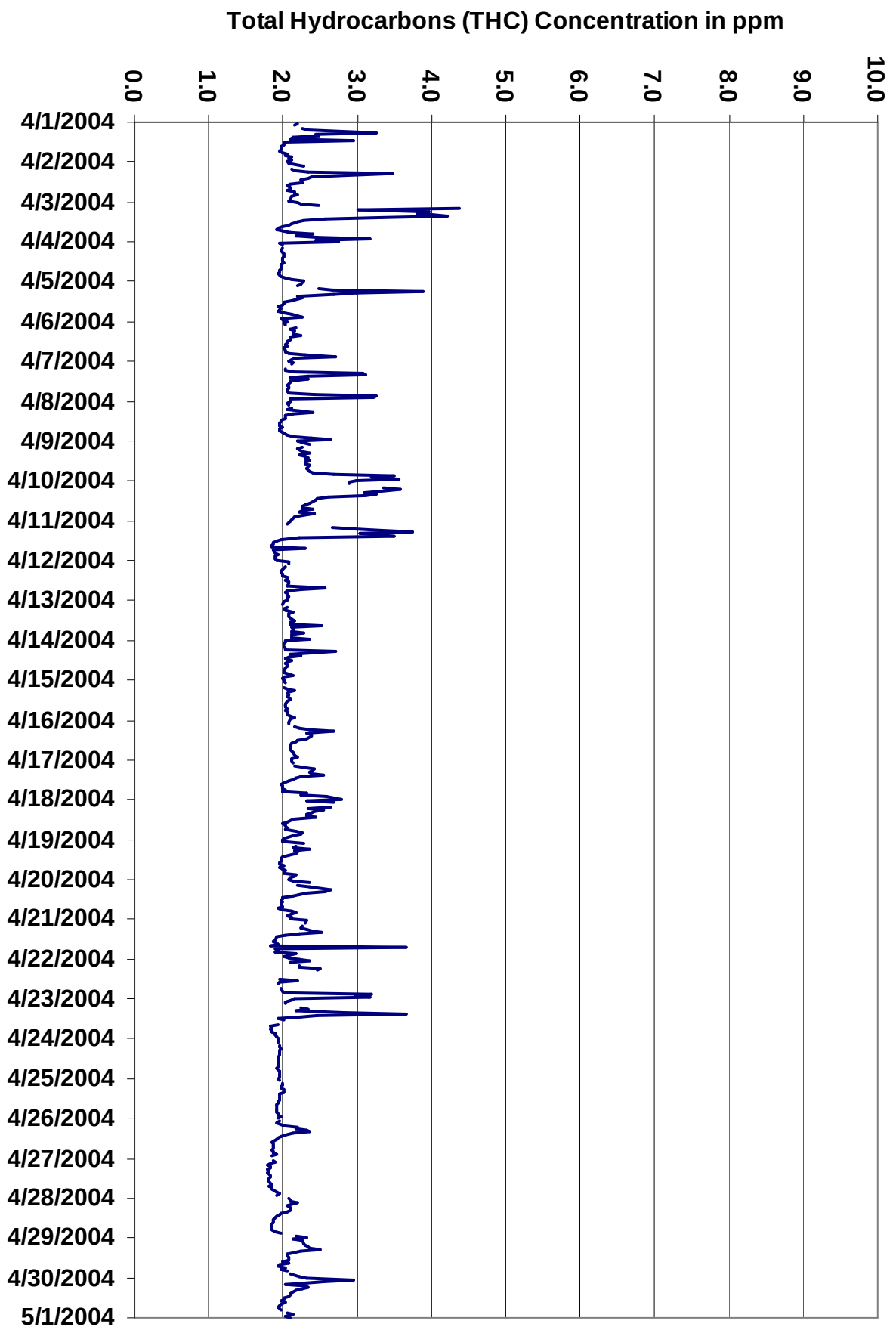


Figure 12. PASZA - Henry Parker Total Hydrocarbons 1-hr Maximum Value Monthly Trend

PASZA - Henry Pirker Total Reduced Sulphur Monthly Summary

Station: Henry Pirker

HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004
Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	0.8 ppb 22-Apr 0:00 1:00
Maximum 24-hr Average:	0.4 ppb 21-Apr

H₂S Guideline Limit: Alberta Environment: 1-hr 10 ppb 24-hr 3 ppb

AIC Time:		31 hrs		Operational Time:		683 hrs		
Calibration Time:		4 hrs		AMD Operational Uptime:		99.7%		
Percentile	99	95	75	50	25	5	1	Average
	0.7	0.5	0.4	0.3	0.3	0.2	0.2	0.4 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum	
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Apr-04	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	0.4	0.5
2-Apr-04	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	0.3	0.5
3-Apr-04	0	0	A	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.4	0.7
4-Apr-04	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	0.3	0.4
5-Apr-04	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
6-Apr-04	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	0.4	0.5
7-Apr-04	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.4	0.5
8-Apr-04	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	0.4	0.4
9-Apr-04	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	0.4	0.4
10-Apr-04	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
11-Apr-04	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
12-Apr-04	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.4	0.8
13-Apr-04	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	0.3	0.5
14-Apr-04	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	0.3	0.4
15-Apr-04	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	0.3	0.4
16-Apr-04	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	0.3	0.4
17-Apr-04	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	0.4	0.5
18-Apr-04	0	0	A	1	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8
19-Apr-04	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	0.3	0.4
20-Apr-04	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	0.3	0.5
21-Apr-04	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	C	1	1	1	1	1	1	0.4	0.7
22-Apr-04	1	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	N	0	0	0	0	0	0	1	0	0.4	0.8
23-Apr-04	0	0	0	A	0	0	0	1	1	0	0	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8
24-Apr-04	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	0.4	0.4
25-Apr-04	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	0.4	0.5
26-Apr-04	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	1	A	0	0.4	0.5
27-Apr-04	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.4	0.5
28-Apr-04	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	0.3	0.4
29-Apr-04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.3	0.4
30-Apr-04	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	0.3	0.3
Hourly Avg	0.3	0.3	N	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	N	0.0	
Hourly Max	0.8	0.6	0.5	0.8	0.6	0.6	0.8	0.8	0.7	0.6	0.5	0.5	0.4	0.5	0.4	0.5	0.6	0.5	0.5	0.7	0.7	0.7	0.6	0.7			

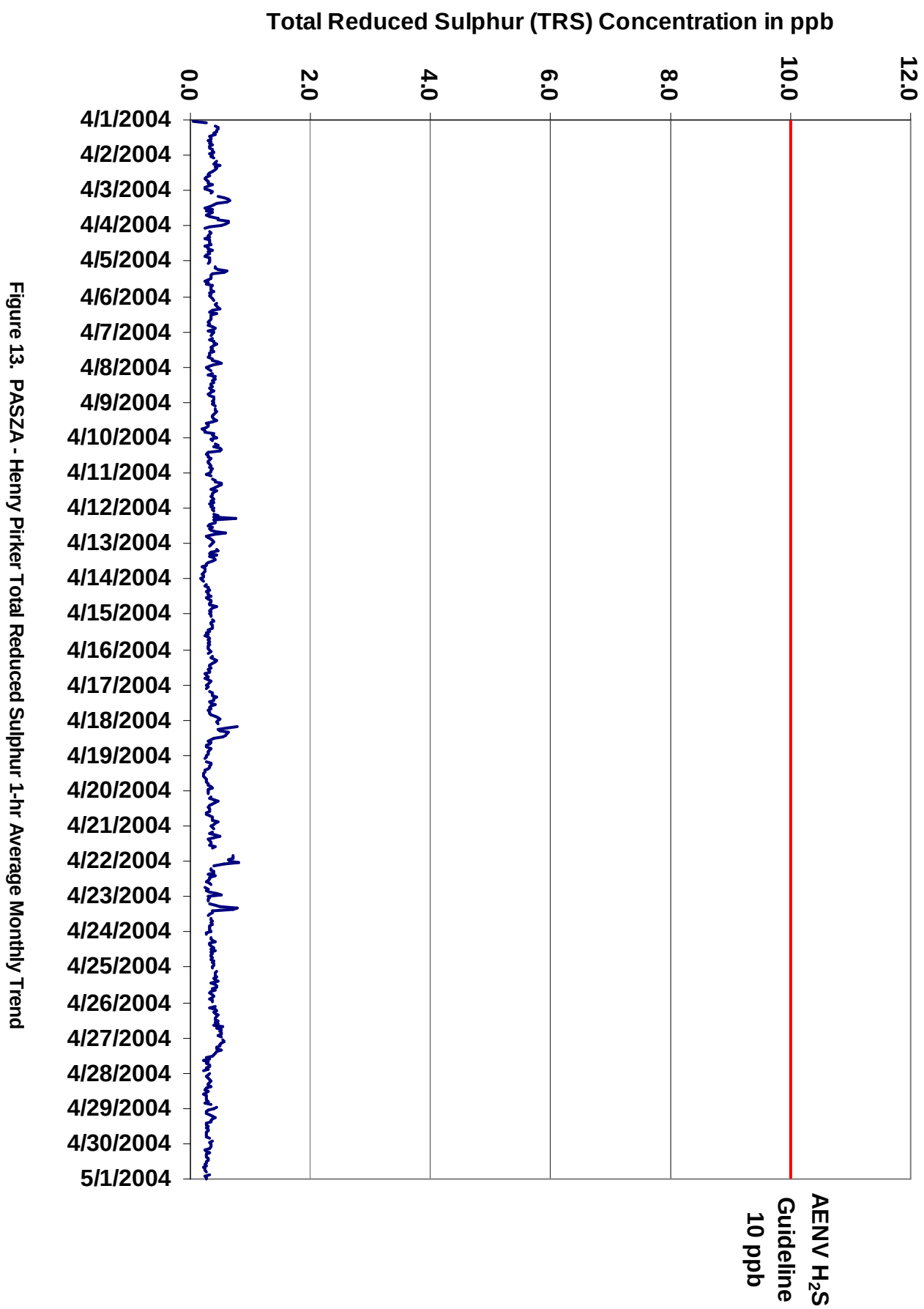


Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker

HOURLY MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004

Summary

Maximum 1-hr Value:	1.8	ppb	12-Apr	6:00 7:00
Maximum 24-hr Value:	0.8	ppb	3-Apr	

AIC Time:	31 hrs			Operational Time:	683 hrs			
Calibration Time:	4 hrs			AMD Operational Uptime:	99.7%			
Percentile	99	95	75	50	25	5	1	Average
	1.1	0.9	0.7	0.7	0.6	0.5	0.5	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-Apr-04	0	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	0.9
2-Apr-04	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	0.9
3-Apr-04	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
4-Apr-04	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
5-Apr-04	1	1	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0.7	1.0
6-Apr-04	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
7-Apr-04	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	1.0
8-Apr-04	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
9-Apr-04	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0.7	0.9
10-Apr-04	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	0.9
11-Apr-04	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	0.9
12-Apr-04	1	1	A	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.8
13-Apr-04	1	1	A	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	0	1	0.6	0.9
14-Apr-04	0	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	1.0
15-Apr-04	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
16-Apr-04	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0.6	0.9
17-Apr-04	1	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
18-Apr-04	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	1.1
19-Apr-04	1	0	A	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
20-Apr-04	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
21-Apr-04	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	C	C	C	C	1	1	1	1	1	0.8	1.1
22-Apr-04	2	1	1	A	1	1	1	1	1	1	1	1	1	0	1	1	N	1	1	1	1	1	1	1	0.7	1.5
23-Apr-04	1	1	1	A	1	1	1	1	1	1	1	1	1	N	1	1	1	1	1	1	1	1	1	1	0.7	1.2
24-Apr-04	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
25-Apr-04	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0
26-Apr-04	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	0.9
27-Apr-04	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
28-Apr-04	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	A	1	1	0.6	0.8
29-Apr-04	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.6	0.9
30-Apr-04	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	0	0	1	A	1	1	1	1	0.6	0.8
																									N	0.0
Hourly Avg	0.7	0.7	N	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.7	0.6	0.7	0.7	0.7	0.7	0.7		
Hourly Max	1.5	0.9	0.8	1.1	1.0	1.0	1.8	1.2	1.1	0.9	0.8	0.9	1.0	0.8	0.8	0.9	0.9	0.9	1.0	1.0	1.0	1.1	1.0	1.1		

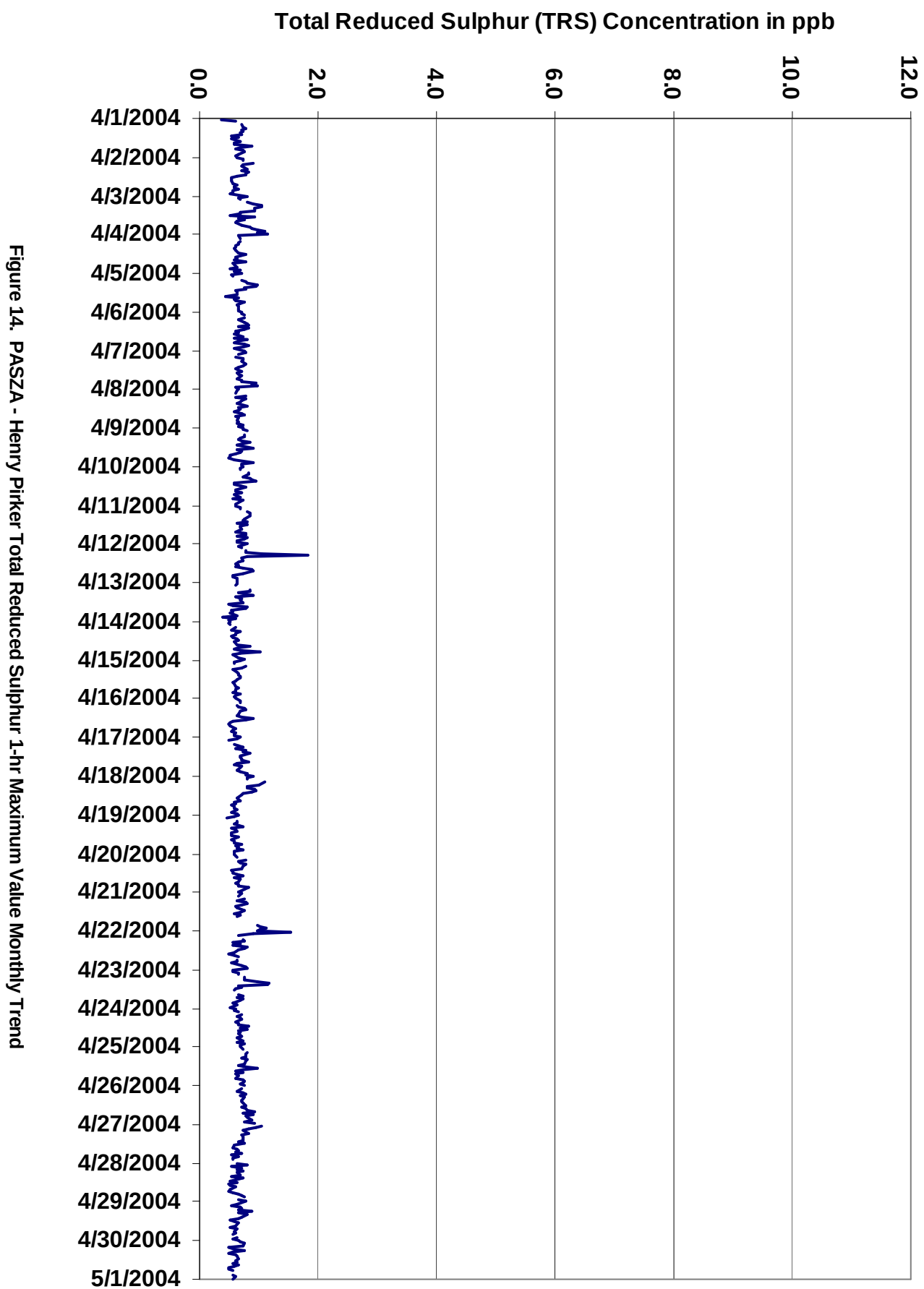


Figure 14. PASZA - Henry Piker Total Reduced Sulphur 1-hr Maximum Value Monthly Trend

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

Station: Henry Pirker

HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004

Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	34.7 $\mu\text{g}/\text{m}^3$ 23-Apr 7:00 8:00
Maximum 24-hr Average:	10.6 $\mu\text{g}/\text{m}^3$ 3-Apr

Guideline Limit Canada Wide Standard

1-hr	-	$\mu\text{g}/\text{m}^3$	24-hr	30	$\mu\text{g}/\text{m}^3$
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(considered as an absolute value)

AIC Time:				0 hrs				Operational Time:				714 hrs	
Calibration Time:				0 hrs				AMD Operational Uptime:				99.2%	
Percentile		99	95	75	50	25	5	1	Average		Geomean		
		20.2	11.5	5.2	2.9	1.5	0.0	0.0	4.0 µg/m³		3.4 µg/m³		

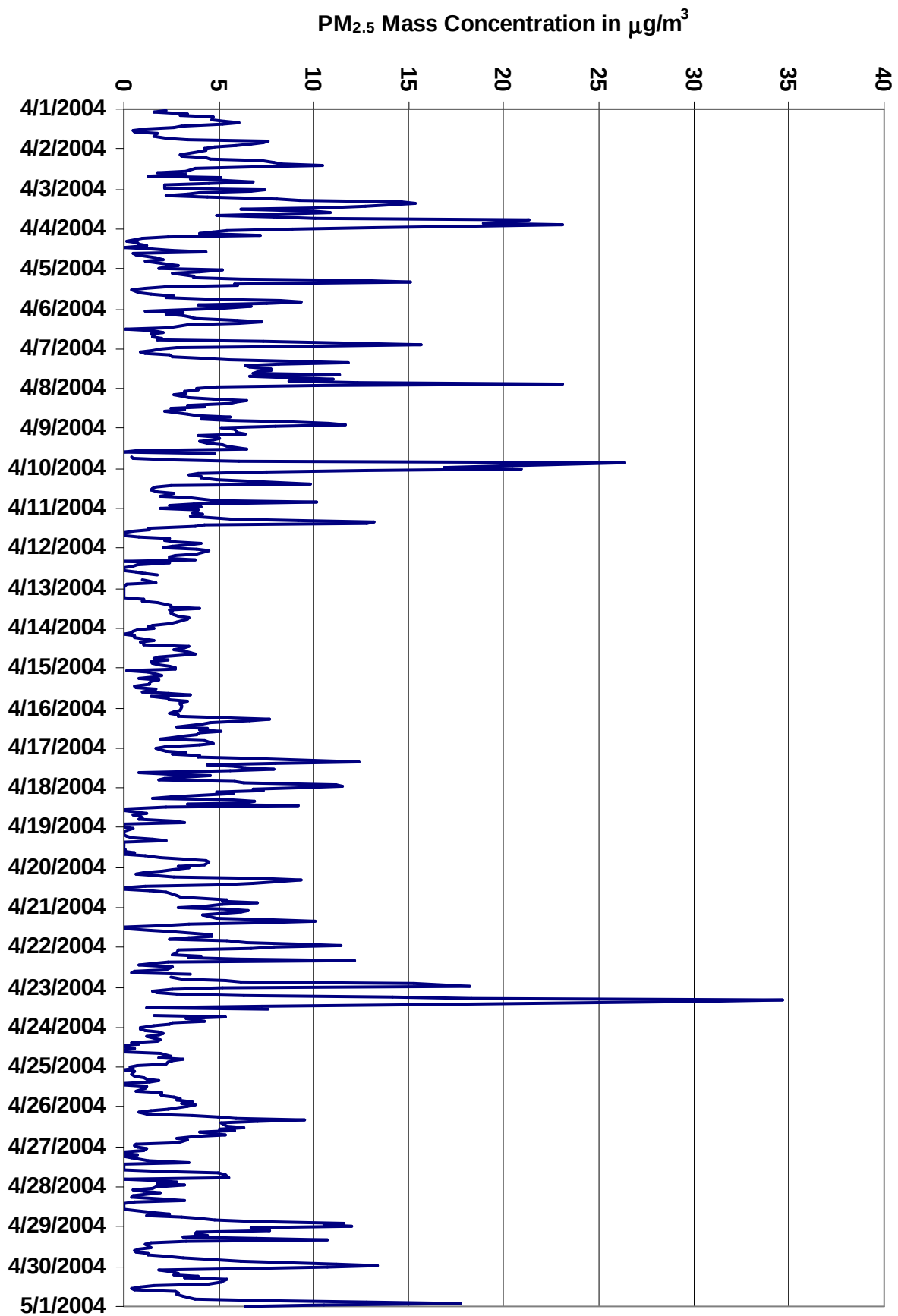
Status Flag Characters

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-Apr-04	2	2	3	3	5	5	5	6	5	3	3	1	0	1	2	2	2	3	8	7	7	6	5	4	3.7	7.6
2-Apr-04	4	4	3	3	4	5	7	8	8	10	7	4	3	2	3	1	5	4	5	7	4	2	2	7	4.8	10.5
3-Apr-04	7	4	3	2	4	8	9	15	15	13	11	6	10	11	8	5	8	10	21	19	23	18	13	9	10.6	23.1
4-Apr-04	5	5	4	7	2	1	0	1	1	1	0	2	3	4	0	1	2	2	1	2	2	3	2	2	2.2	7.1
5-Apr-04	5	4	3	4	4	6	13	15	6	6	2	1	0	1	1	3	2	4	8	9	7	4	7	5	5.0	15.1
6-Apr-04	1	3	2	3	3	4	6	7	6	3	2	0	2	2	1	2	2	2	2	7	16	10	3	2	3.8	15.7
7-Apr-04	2	1	1	2	3	4	6	12	8	6	7	8	8	7	7	11	7	11	9	12	23	10	5	4	7.2	23.1
8-Apr-04	4	3	3	3	3	5	6	6	6	3	4	3	3	2	3	4	6	4	5	9	11	12	8	5	5.1	11.7
9-Apr-04	6	6	6	4	5	5	5	4	4	5	5	6	1	0	5	D	0	0	2	6	26	20	17	21	7.0	26.4
10-Apr-04	13	8	4	3	4	4	5	7	10	2	2	2	1	2	3	2	2	3	5	10	4	2	4	2	4.3	12.8
11-Apr-04	4	4	4	4	3	6	9	13	13	4	4	1	1	0	0	0	1	2	2	3	4	3	3	2	3.8	13.2
12-Apr-04	4	4	4	3	2	2	4	0	2	1	0	0	0	1	1	2	P	P	1	1	2	0	0	0	1.6	4.5
13-Apr-04	0	0	0	0	0	0	1	1	2	2	2	4	2	3	2	3	3	3	3	2	2	2	1	2	1.8	4.0
14-Apr-04	1	1	0	0	1	1	2	1	1	1	3	3	3	3	3	4	2	2	2	1	2	2	2	3	1.8	3.7
15-Apr-04	3	0	1	2	2	1	2	1	1	1	1	1	2	1	2	3	1	2	2	3	3	3	3	3	1.9	3.5
16-Apr-04	3	3	2	3	3	5	8	7	5	4	3	4	4	5	4	4	3	3	2	4	5	4	2	2	3.8	7.7
17-Apr-04	2	2	3	3	4	4	7	12	8	4	6	6	8	6	1	2	5	2	2	6	6	11	12	9	5.5	12.4
18-Apr-04	7	7	5	6	2	2	6	7	6	3	9	2	0	0	1	0	1	1	1	3	3	0	0	0	3.0	9.2
19-Apr-04	0	0	0	0	0	0	1	2	0	0	0	0	0	0	1	0	1	2	3	4	4	4	3	3	1.3	4.5
20-Apr-04	3	2	1	1	2	3	7	9	7	5	1	0	0	1	2	3	3	3	5	5	7	5	4	3	3.4	9.3
21-Apr-04	5	7	6	5	4	5	8	10	7	3	2	0	0	1	3	5	5	3	2	5	6	9	11	8	5.1	11.4
22-Apr-04	7	3	3	3	4	3	6	12	2	2	1	3	2	1	0	4	N	3	3	5	6	15	18	5	4.8	18.2
23-Apr-04	3	2	2	3	6	14	18	35	30	15	7	1	8	N	5	D	2	5	3	4	3	2	2	1	7.7	34.7
24-Apr-04	1	1	2	2	2	1	2	2	0	1	0	0	1	0	0	2	2	2	3	3	2	2	1	0	1.3	3.1
25-Apr-04	1	0	1	0	1	1	1	2	1	0	0	1	1	1	2	2	2	3	3	3	4	3	4	3	1.6	3.7
26-Apr-04	2	1	1	1	4	5	6	10	7	5	5	6	5	6	4	5	5	4	3	3	3	1	1	1	3.9	9.5
27-Apr-04	1	1	0	0	1	0	0	1	3	0	0	0	0	0	2	5	5	6	0	2	3	2	3	2	1.5	5.5
28-Apr-04	2	0	1	2	0	0	2	3	1	0	0	0	0	0	2	2	1	3	4	5	7	12	11	12	2.9	12.0
29-Apr-04	7	8	4	4	4	3	7	11	3	1	1	1	1	1	1	1	1	2	3	5	6	11	13	11	4.6	13.3
30-Apr-04	7	2	3	3	3	4	3	5	5	4	2	1	0	1	3	3	3	3	4	7	13	18	11	6	4.7	17.7
																									N	0.0
Hourly Avg	3.6	2.9	2.5	2.6	2.9	3.5	5.4	7.5	5.9	3.7	3.0	2.2	2.3	2.1	2.4	2.8	2.9	3.4	4.0	5.5	7.1	6.6	5.6	4.6		
Hourly Max	12.8	7.7	6.4	7.1	6.3	14.2	18.3	34.7	30.3	14.7	10.8	7.8	10.0	10.8	8.1	11.3	7.9	11.1	21.3	19.0	26.4	20.4	18.2	20.9		

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



Station: Henry Pirker

HOURLY MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004

Summary

Maximum 1-hr Value:	48.2	μg/m ³	9-Apr	20:00 21:00
Maximum 24-hr Value:	16.1	μg/m ³	3-Apr	

AIC Time:		0 hrs		Operational Time:		715 hrs			
Calibration Time:		0 hrs		AMD Operational Uptime:		99.3%			
Percentile	99	95	75	50	25	5	1	Average	Geomean
	29.2	18.0	8.9	5.6	4.0	1.9	0.9	7.4 $\mu\text{g}/\text{m}^3$	6.8 $\mu\text{g}/\text{m}^3$

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Apr-04	4	3	5	4	7	8	8	8	8	6	5	4	4	4	8	6	5	10	10	9	10	8	7	7	6.7	10.4
2-Apr-04	6	6	5	4	7	6	12	10	11	14	9	8	7	6	7	5	14	8	8	11	6	3	4	16	8.1	15.6
3-Apr-04	9	6	6	4	7	10	13	19	18	20	18	18	15	17	14	8	18	18	40	23	26	25	17	16	16.1	39.7
4-Apr-04	8	8	6	14	6	5	3	2	3	4	3	5	6	9	4	3	4	6	3	4	4	5	5	4	5.1	13.6
5-Apr-04	7	7	5	6	6	8	18	18	9	12	8	4	4	2	4	6	5	9	12	15	14	13	15	9	9.0	18.4
6-Apr-04	4	5	5	5	6	5	8	10	9	5	6	4	4	4	5	4	5	5	4	13	18	15	4	3	6.5	18.0
7-Apr-04	3	2	3	4	4	6	12	16	11	8	8	10	12	11	10	14	10	15	14	15	30	26	8	7	10.7	29.9
8-Apr-04	5	6	4	4	4	7	8	8	7	7	7	6	5	5	6	6	8	8	7	14	16	14	12	6	7.7	16.5
9-Apr-04	7	8	9	6	6	6	7	7	6	7	10	17	5	4	13	D	2	4	8	16	48	23	21	25	11.5	48.2
10-Apr-04	19	12	8	7	5	13	8	11	13	9	5	3	5	4	5	5	4	7	7	15	15	6	6	5	8.2	19.2
11-Apr-04	6	5	5	6	5	8	14	15	17	13	7	5	3	4	1	2	3	5	4	5	5	5	4	3	6.3	17.0
12-Apr-04	6	7	6	7	4	5	6	4	4	2	2	1	2	2	3	5	P	P	2	3	3	2	1	0	3.5	7.0
13-Apr-04	0	0	1	1	1	1	2	3	3	4	4	6	4	6	5	5	4	5	5	4	4	3	3	3	3.2	5.8
14-Apr-04	2	2	2	1	3	3	6	2	3	2	5	5	5	6	5	5	3	3	4	4	3	3	4	4	3.5	6.3
15-Apr-04	4	3	3	3	3	2	4	4	5	5	4	5	4	3	6	7	5	5	4	5	5	4	4	5	4.2	6.7
16-Apr-04	4	5	4	7	4	10	10	9	5	6	5	7	8	8	6	8	6	5	4	6	7	5	4	3	6.0	10.1
17-Apr-04	3	3	5	4	7	7	12	19	18	7	8	9	17	15	5	8	15	15	6	10	10	13	13	12	10.1	18.9
18-Apr-04	9	10	8	9	4	3	11	11	10	8	17	11	4	2	5	3	5	5	3	4	13	2	1	1	6.6	16.9
19-Apr-04	2	1	1	1	1	2	3	5	1	2	1	3	3	3	4	3	4	5	10	6	7	7	4	5	3.6	10.1
20-Apr-04	4	3	3	3	3	6	12	11	10	8	5	4	2	5	8	6	7	7	10	7	9	7	6	4	6.2	11.8
21-Apr-04	10	10	15	13	11	10	13	12	10	8	6	4	5	9	13	10	11	8	7	8	12	15	17	10	10.3	17.3
22-Apr-04	12	14	7	5	9	6	9	19	9	7	4	5	7	6	4	8	N	12	7	8	12	27	38	9	10.5	37.7
23-Apr-04	5	3	4	5	13	19	29	46	42	22	15	12	22	N	26	1	8	11	10	7	5	5	5	4	13.9	45.7
24-Apr-04	3	3	3	4	4	3	4	4	3	3	3	4	4	4	5	7	7	9	7	5	4	4	2	1	4.2	9.4
25-Apr-04	2	1	2	2	2	3	3	4	4	2	3	3	3	4	5	5	5	5	5	5	6	5	6	5	3.7	5.5
26-Apr-04	4	3	3	3	7	8	9	13	10	13	8	9	7	9	6	9	7	8	5	5	5	3	2	2	6.6	13.5
27-Apr-04	4	3	1	2	5	3	4	5	11	4	7	2	3	8	10	17	20	17	3	5	4	5	7	4	6.5	19.8
28-Apr-04	3	2	3	5	3	3	6	7	3	3	2	2	3	5	5	5	5	9	8	9	11	16	29	24	7.1	28.7
29-Apr-04	14	11	9	10	9	9	13	14	11	5	4	4	3	6	3	7	5	5	6	8	9	17	22	18	9.3	22.4
30-Apr-04	12	7	5	5	4	7	5	7	9	8	7	5	5	5	6	11	8	8	7	12	14	30	17	9	8.7	30.0
																									N	0.0
Hourly Avg	6.0	5.3	4.7	5.1	5.3	6.4	9.1	10.7	9.5	7.4	6.6	6.2	6.1	6.1	6.9	6.5	7.3	8.2	7.7	8.6	11.1	10.5	9.6	7.5		
Hourly Max	19.2	14.0	14.7	13.6	13.4	18.7	29.3	45.7	41.6	22.5	18.5	18.5	22.0	17.0	26.5	17.4	19.8	17.9	39.7	22.7	48.2	30.0	37.7	25.2		

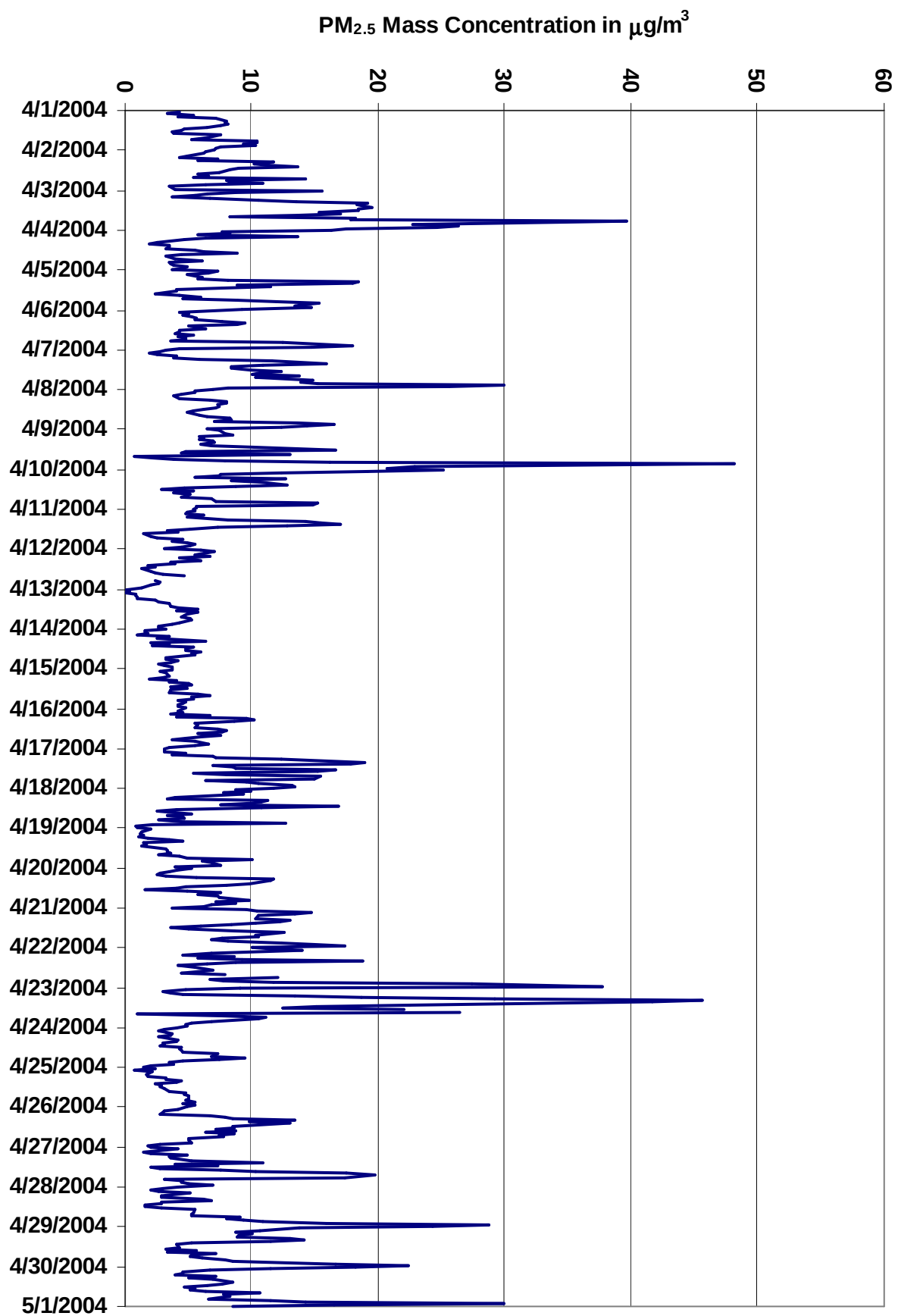
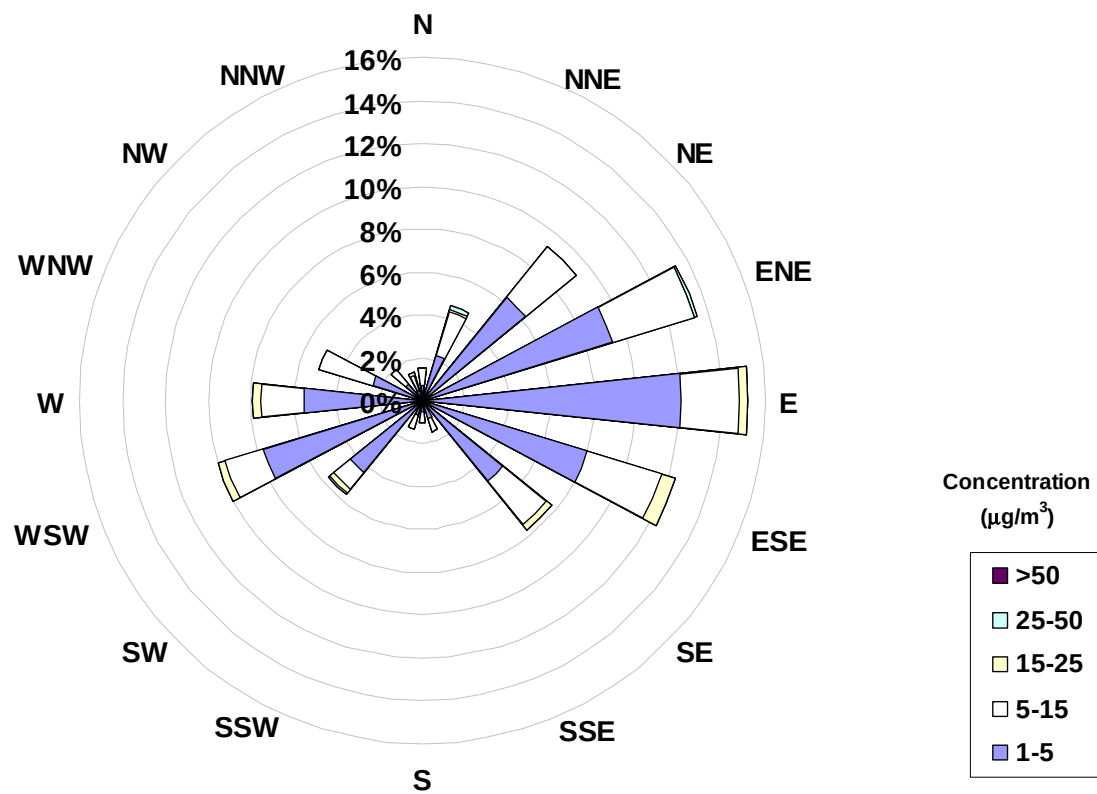


Figure 16. PASZA - Henry Pirkker Particulate Matter (less than 2.5 microns) 1-hr Maximum Value Monthly

**Concentration Rose for the 1-hr PM_{2.5} Average Concentration Occurrences at
the Henry Pirkker Site for April 2004**



Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
0	<	1	131
1	to	5	391
5	to	15	174
15	to	25	15
25	to	50	3
	>	50	0
Total Non-Zero Values			714

PASZA - Henry Pirker Meteorological Parameters Monthly Summary

Station: Henry Pirker

HOURLY AVERAGE TABLE

Relative Humidity (RH - %)

Station Owner: PASZA

 Monitoring Dates: April 1, 2004 to May 1, 2004
 Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	95.5 % 18-Apr 6:00 7:00
Maximum 24-hr Average:	89.2 % 13-Apr

AIC Time:		0 hrs		Operational Time:		718 hrs		
Calibration Time:		0 hrs		AMD Operational Uptime:		99.7%		
Percentile	99	95	75	50	25	5	1	Average
	94.5	90.4	71.1	53.7	38.1	24.3	18.0	55.1 ppb

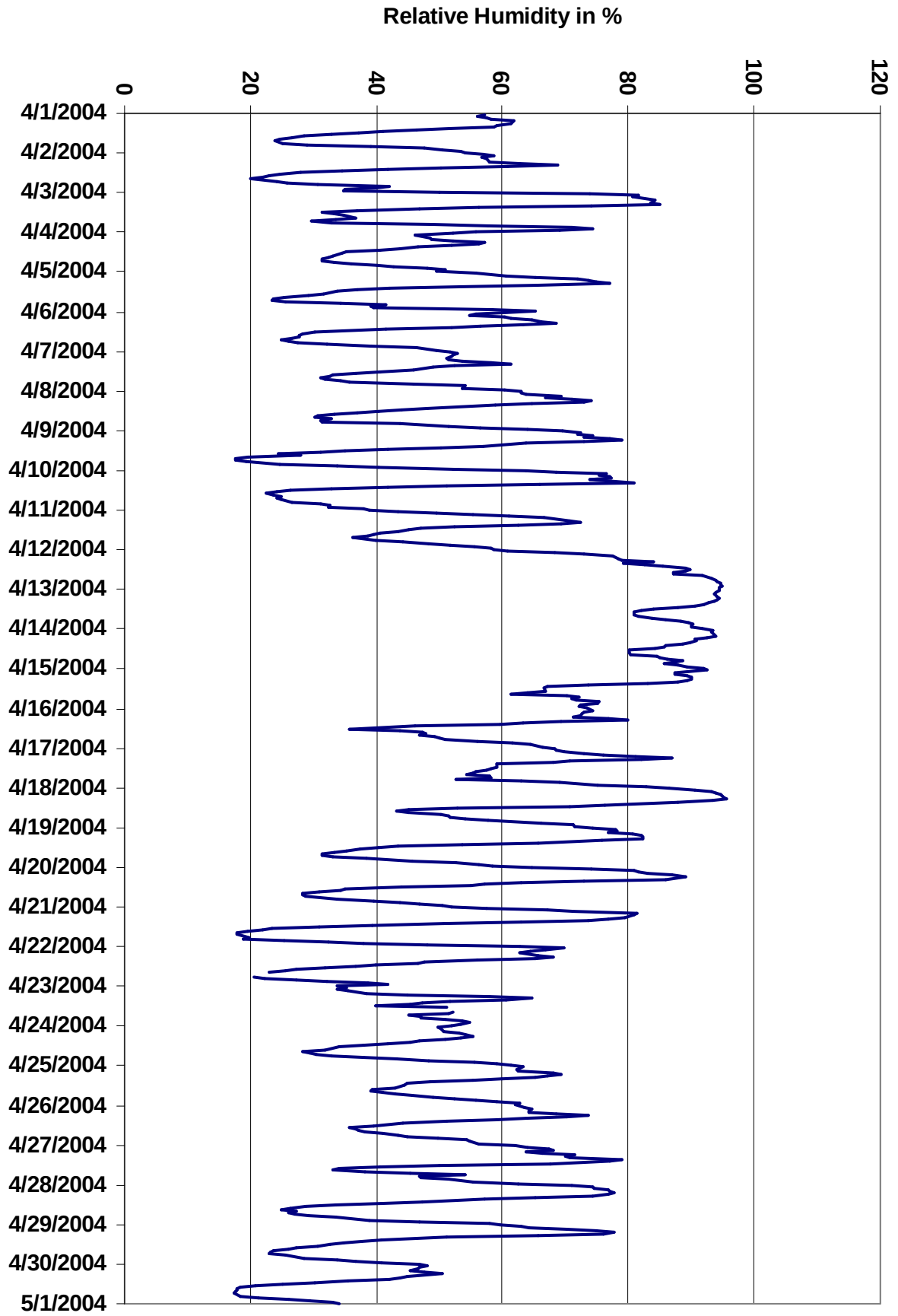
Status Flag Characters

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-Apr-04	57	56	57	58	62	61	59	59	52	46	41	37	33	28	26	25	24	25	29	39	48	50	53	54	45	62
2-Apr-04	57	59	57	57	58	63	69	61	50	42	34	28	25	23	22	20	24	26	31	42	40	35	35	50	42	69
3-Apr-04	74	82	81	84	84	83	85	74	56	47	37	31	33	35	37	34	30	33	49	58	71	74	69	56	58	85
4-Apr-04	52	46	48	49	52	57	56	52	47	44	40	35	34	33	32	31	31	33	36	40	43	48	51	49	43	57
5-Apr-04	56	61	65	72	74	75	77	66	53	42	37	34	32	29	25	24	23	26	34	42	39	40	59	65	48	77
6-Apr-04	56	55	60	61	65	66	69	63	57	52	42	30	28	28	28	26	25	26	27	32	39	46	49	52	45	69
7-Apr-04	53	52	52	51	52	53	58	61	52	49	46	41	37	33	33	31	32	34	36	46	54	54	60	63	47	63
8-Apr-04	63	64	69	67	71	74	73	65	59	48	44	40	37	33	31	30	33	31	31	44	51	57	64	69	52	74
9-Apr-04	72	72	74	73	77	79	73	64	57	50	42	35	31	24	28	20	18	18	19	25	34	40	52	64	47	79
10-Apr-04	69	77	75	77	77	74	81	66	51	42	33	26	24	22	24	25	24	25	27	31	33	32	38	39	45	81
11-Apr-04	43	49	55	61	67	71	73	69	62	52	47	45	43	41	40	39	36	40	44	48	52	56	58	59	52	73
12-Apr-04	61	68	73	78	79	79	84	79	83	86	89	90	89	87	87	92	93	94	94	95	95	95	95	94	86	95
13-Apr-04	94	94	94	94	94	94	94	93	92	90	88	84	82	81	81	82	84	86	88	90	90	90	90	92	89	94
14-Apr-04	93	93	94	94	92	91	91	90	89	86	86	84	80	80	80	84	85	86	89	87	86	88	89	92	88	94
15-Apr-04	93	87	87	89	90	90	89	88	83	74	67	67	67	64	61	70	72	71	72	75	75	72	72	73	77	93
16-Apr-04	74	73	73	72	71	77	80	69	63	60	46	36	44	47	48	47	49	50	51	56	62	64	66	68	60	80
17-Apr-04	69	70	73	76	81	87	82	71	68	59	59	58	57	56	55	54	58	58	53	63	69	75	83	86	68	87
18-Apr-04	90	93	94	95	95	95	96	93	88	76	71	53	45	43	45	50	51	52	54	58	66	71	72	74	72	96
19-Apr-04	78	78	77	81	82	82	82	76	66	54	44	40	37	35	33	31	31	33	38	46	53	56	58	65	57	82
20-Apr-04	74	81	82	83	87	89	86	73	63	57	55	44	35	34	31	28	28	29	34	40	44	47	51	52	55	89
21-Apr-04	57	67	71	81	81	79	77	74	63	51	39	31	23	22	20	18	18	20	19	25	32	38	48	63	47	81
22-Apr-04	70	67	64	63	66	68	65	56	48	47	40	37	32	27	26	23	N	20	22	27	32	39	42	34	44	70
23-Apr-04	35	34	36	38	45	58	65	61	52	47	45	40	51	N	52	51	45	47	47	51	54	55	53	52	48	65
24-Apr-04	50	50	51	53	54	55	53	51	47	45	42	38	34	32	28	30	30	33	38	43	48	55	59	61	45	61
25-Apr-04	63	62	62	68	69	67	65	60	55	49	45	44	43	39	39	41	43	46	49	52	56	59	63	62	54	69
26-Apr-04	63	65	64	64	69	74	70	64	59	51	44	40	36	37	37	38	41	43	45	50	54	55	56	62	53	74
27-Apr-04	64	67	68	64	66	72	70	71	79	77	68	50	41	34	33	38	45	54	47	47	51	55	63	71	58	79
28-Apr-04	74	75	77	77	78	77	74	65	57	47	41	34	29	26	25	27	26	27	29	34	39	47	58	60	50	78
29-Apr-04	63	64	70	75	78	76	66	51	41	38	35	33	31	27	26	24	23	23	26	29	34	37	41	47	44	78
30-Apr-04	48	47	47	46	48	50	45	44	42	36	30	25	21	18	18	18	18	17	18	21	26	30	33	34	32	50
																									N	0
Hourly Avg	66	67	68	70	72	74	74	68	61	55	49	44	41	39	38	38	39	40	43	48	52	55	59	62		
Hourly Max	94	94	94	95	95	95	96	93	92	90	89	90	89	87	87	92	93	94	94	95	95	95	95	94		

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



Station: Henry Pirker

HOURLY AVERAGE TABLE

Ambient Temperature (AT - °C)

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	20.0	°C	30-Apr	16:00 17:00
Maximum 24-hr Average:	13.2	°C	26-Apr	

AIC Time:	0 hrs			Operational Time:	718 hrs			
Calibration Time:	0 hrs			AMD Operational Uptime:	99.7%			
Percentile	99	95	75	50	25	5	1	Average
	19.0	16.4	11.1	6.4	1.2	-3.2	-6.1	6.3 ppb

Status Flag Characters

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

Day Mountain Standard Time

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-Apr-04	-0.3	-0.8	-1.3	-1.7	-2.3	-2.5	-2.3	-1.0	1.5	3.1	4.6	5.9	7.0	8.4	9.3	10.0	10.4	9.9	9.3	7.0	4.8	3.9	3.1	2.7	3.7	10.4
2-Apr-04	1.7	0.8	0.8	0.3	-0.4	-1.2	-2.4	-0.3	3.1	6.0	8.6	11.1	12.6	13.2	13.9	14.4	14.3	13.8	11.9	8.9	8.1	8.2	7.8	4.6	6.7	14.4
3-Apr-04	0.3	-0.9	-1.1	-1.9	-2.0	-2.1	-2.6	0.5	5.0	7.4	10.6	12.7	13.3	14.7	15.2	16.0	16.6	15.0	13.1	10.1	6.9	5.9	5.6	6.3	6.9	16.6
4-Apr-04	6.2	7.7	7.7	7.7	6.9	5.6	5.2	6.2	7.7	8.8	9.8	10.6	10.6	10.8	10.9	11.4	11.5	11.2	10.5	8.4	7.2	5.5	4.1	4.8	8.2	11.5
5-Apr-04	3.1	2.0	1.1	-0.3	-1.0	-1.4	-1.4	2.2	6.2	9.2	10.8	11.3	11.8	12.1	13.9	14.9	15.0	13.8	11.6	9.6	8.7	7.4	4.8	3.8	7.0	15.0
6-Apr-04	4.5	3.7	1.9	1.7	1.1	0.6	0.1	2.2	4.5	6.4	9.5	11.6	11.8	12.4	12.4	12.9	12.9	12.2	11.5	9.3	7.5	6.1	4.7	3.6	6.9	12.9
7-Apr-04	3.0	3.0	2.7	2.7	2.4	1.9	1.2	1.0	3.5	5.2	6.9	8.8	10.5	12.1	12.4	13.3	12.5	13.0	12.6	10.0	7.5	7.5	5.5	4.2	6.8	13.3
8-Apr-04	4.3	3.8	2.0	2.5	1.3	0.4	0.8	3.2	5.3	8.2	9.6	11.4	12.5	13.5	14.0	14.5	13.4	13.1	9.9	6.7	4.9	3.3	1.6		7.2	14.5
9-Apr-04	0.7	0.6	0.5	0.7	-0.5	-0.8	0.5	3.1	5.6	8.6	12.2	13.9	13.8	15.2	14.8	15.3	15.1	14.6	14.0	11.4	8.2	6.7	3.7	0.9	7.5	15.3
10-Apr-04	-0.7	-1.9	-1.9	-2.1	-2.3	-1.7	-2.6	1.2	6.4	9.6	12.6	15.7	16.6	17.3	17.6	17.5	17.7	17.6	16.8	15.0	14.3	14.5	12.9	12.0	9.3	17.7
11-Apr-04	11.2	9.8	8.5	7.1	5.6	4.6	4.3	6.4	9.5	12.3	14.8	16.0	16.6	17.8	17.8	18.0	19.1	17.7	15.8	14.1	13.1	12.1	11.3	10.8	12.3	19.1
12-Apr-04	10.2	9.2	8.6	7.7	6.9	6.3	5.6	4.3	3.6	2.7	2.2	2.0	2.2	2.5	2.6	2.5	2.3	2.1	1.9	1.8	1.6	1.5	1.3	0.7	3.9	10.2
13-Apr-04	0.3	-0.1	-0.9	-1.7	-2.5	-2.7	-2.6	-2.8	-2.7	-1.9	-0.9	0.1	0.1	0.3	0.2	0.2	-0.2	-0.5	-0.6	-0.8	-0.9	-0.8	-0.8	-0.7	-1.0	0.3
14-Apr-04	-0.7	-0.7	-0.9	-1.2	-1.3	-1.2	-1.1	-1.0	-0.5	0.2	0.4	0.8	1.2	0.7	0.8	0.6	0.5	-0.2	-0.8	-1.6	-2.0	-2.2	-2.7	-3.0	-0.7	1.2
15-Apr-04	-3.1	-3.6	-4.5	-5.3	-5.6	-5.9	-6.1	-6.1	-5.7	-4.4	-3.6	-2.8	-3.1	-2.5	-1.7	-2.8	-3.1	-3.2	-3.7	-4.5	-4.9	-5.2	-5.4	-5.4	-4.3	-1.7
16-Apr-04	-5.7	-5.8	-6.0	-5.9	-6.3	-8.2	-9.5	-6.8	-4.9	-3.3	0.9	4.9	1.5	0.5	0.5	1.5	1.1	0.8	0.5	-0.7	-2.2	-2.9	-3.5	-4.1	-2.7	4.9
17-Apr-04	-4.3	-4.7	-5.3	-6.0	-7.1	-7.7	-6.9	-3.3	-1.8	1.2	2.5	5.2	7.0	7.3	6.8	7.3	6.6	7.3	7.4	4.9	3.1	2.0	0.3	-0.2	0.9	7.4
18-Apr-04	-0.5	-1.2	-1.5	-2.3	-2.9	-3.2	-2.6	-1.0	0.5	3.5	6.0	9.4	10.7	10.4	10.5	9.6	9.4	9.6	9.1	8.2	6.8	5.5	5.0	4.2	4.3	10.7
19-Apr-04	3.7	3.6	3.6	2.7	2.4	2.1	2.1	3.8	5.9	7.1	7.8	8.2	9.2	10.0	10.6	10.6	10.4	9.9	9.0	7.7	6.3	5.3	4.7	3.9	6.3	10.6
20-Apr-04	2.7	1.5	1.4	1.1	-0.2	-1.0	0.0	3.7	7.2	9.7	10.6	12.4	12.2	11.8	13.0	14.4	14.0	13.0	11.8	10.2	8.5	7.4	6.2	5.3	7.4	14.4
21-Apr-04	3.7	1.6	1.1	-0.4	-1.0	-0.5	0.6	2.2	5.8	9.7	13.1	15.6	16.4	16.7	16.5	17.0	17.0	16.1	15.5	12.6	10.6	10.1	8.9	7.4	9.0	17.0
22-Apr-04	5.7	4.5	4.0	4.0	3.6	2.9	3.3	6.3	8.4	9.4	10.8	11.6	13.5	15.2	15.0	16.2	N	15.5	15.0	14.0	12.5	11.0	10.5	11.0	9.7	16.2
23-Apr-04	10.2	9.9	9.3	8.5	7.4	5.7	5.6	7.3	9.5	10.2	10.9	12.9	11.2	N	10.5	8.9	10.0	9.5	8.4	6.9	5.5	5.1	4.7	3.9	8.4	12.9
24-Apr-04	3.5	2.7	2.5	2.5	2.7	2.8	3.6	5.0	6.4	7.0	8.3	8.8	9.9	10.3	11.1	10.6	11.0	10.5	9.4	8.5	7.3	5.6	5.0	4.5	6.6	11.1
25-Apr-04	4.1	3.7	3.6	1.8	2.1	3.2	3.9	5.9	8.1	9.8	10.7	10.9	11.7	13.3	13.6	13.2	13.0	12.6	12.0	10.9	10.1	9.5	8.7	9.7	8.6	13.6
26-Apr-04	9.8	9.2	9.2	9.0	7.8	6.3	7.7	9.9	11.3	13.7	15.9	17.0	19.0	18.8	18.7	18.4	17.6	16.7	16.1	14.8	13.5	13.2	12.8	11.5	13.2	19.0
27-Apr-04	11.2	10.3	10.2	10.2	9.0	7.5	7.7	7.7	6.5	5.8	7.0	8.2	9.9	11.2	11.3	10.7	9.9	9.5	9.1	7.8	6.0	4.2	2.7	1.4	8.1	11.3
28-Apr-04	0.5	0.3	-0.7	0.0	-0.1	0.2	0.7	3.8	6.7	9.3	10.9	13.0	14.0	15.1	15.4	15.0	15.4	15.0	14.4	13.6	11.6	8.9	6.1	4.7	8.1	15.4
29-Apr-04	3.1	2.7	2.1	1.7	1.2	0.9	2.7	8.3	11.3	12.0	12.8	13.8	14.7	15.5	15.4	16.4	16.5	16.6	15.0	13.4	11.1	9.3	7.7	5.9	9.6	16.6
30-Apr-04	5.0	4.8	4.6	4.3	3.3	2.7	4.7	6.6	8.6	12.1	14.4	16.1	17.7	19.0	19.5	19.9	20.0	19.9	19.2	17.6	15.1	13.4	11.4	10.5	12.1	20.0
																									N	0.0
Hourly Avg	3.1	2.5	2.0	1.6	0.9	0.5	0.7	2.6	4.7	6.6	8.4	9.9	10.5	11.2	11.4	11.6	11.4	11.1	10.3	8.6	7.1	6.1	5.0	4.2		
Hourly Max	11.2	10.3	10.2	10.2	9.0	7.5	7.7	9.9	11.3	13.7	15.9	17.0	19.0	19.0	19.5	19.9	20.0	19.9	19.2	17.6	15.1	14.5	12.9	12.0		

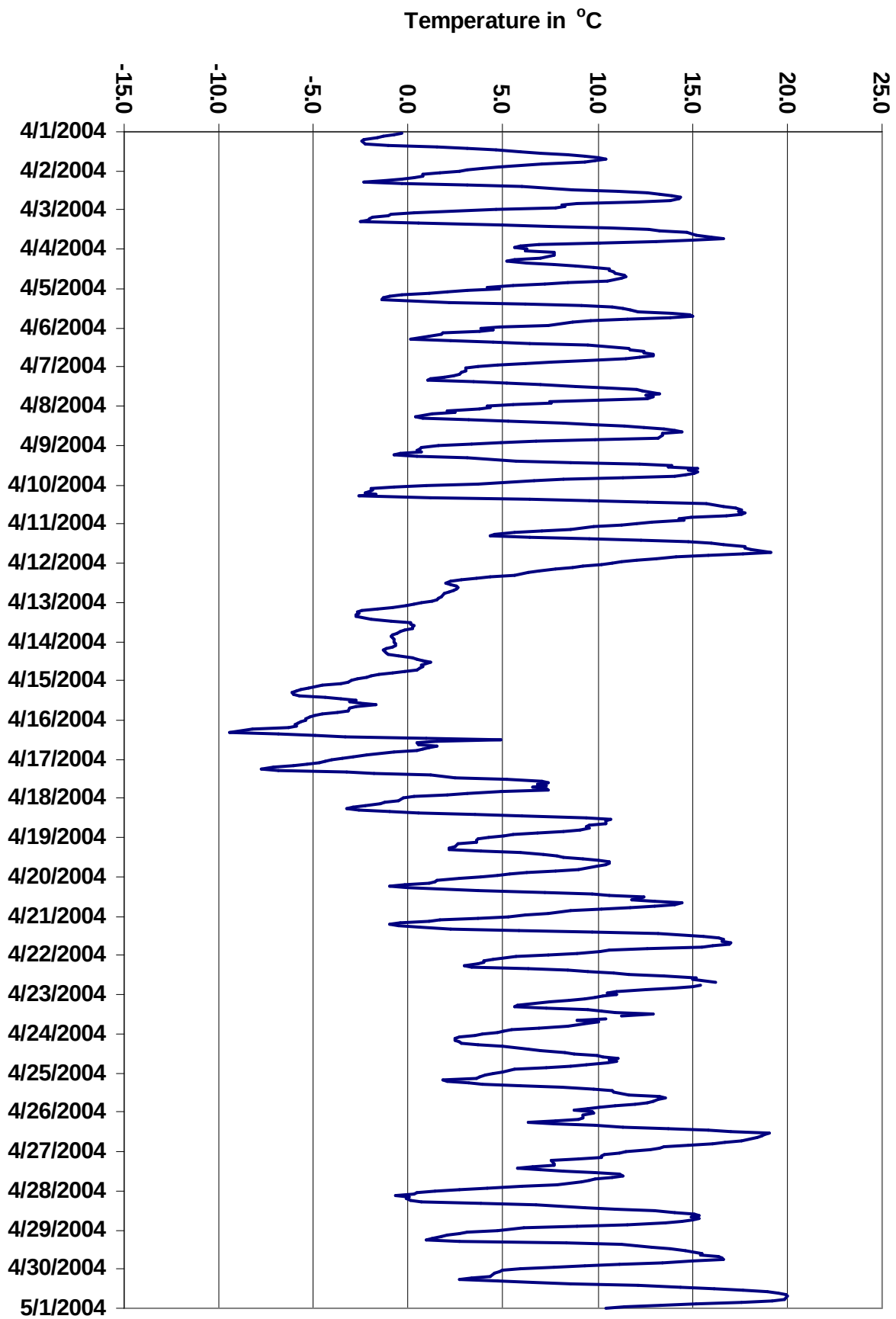


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

Station: Henry Pirker

HOURLY AVERAGE TABLE

Solar Radiation (SR - W/m²)

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004

Summary

Number of 1-hr Exceedances:	0				
Number of 24-hr Exceedances:	0				
Maximum 1-hr Average:	846.3	W/m ²	24-Apr	12:00	13:00
Maximum 24-hr Average:	298.6	W/m ²	30-Apr		

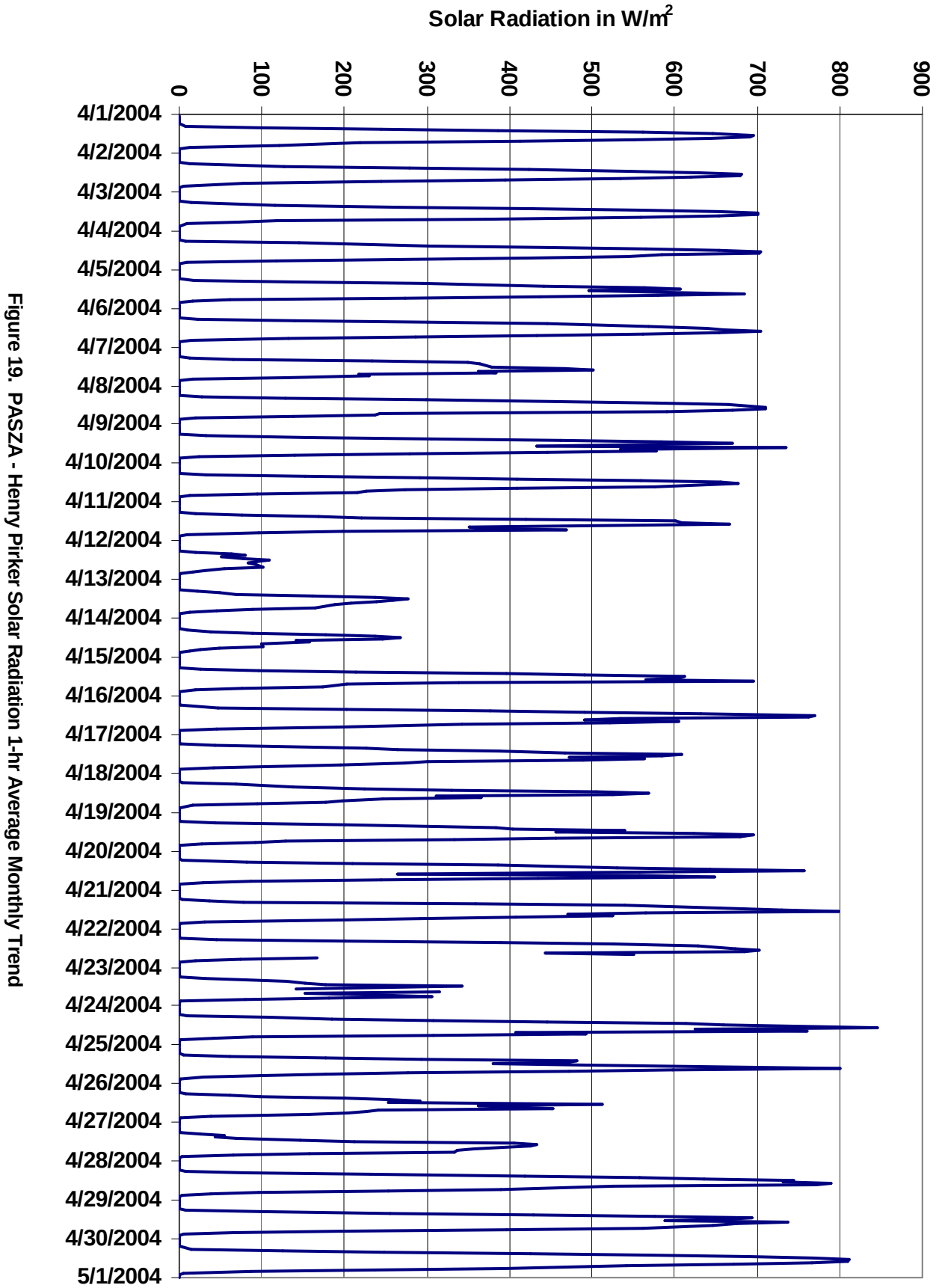
AIC Time:	0 hrs			Operational Time:	718 hrs			
Calibration Time:	0 hrs			AMD Operational Uptime:	99.7%			
Percentile	99	95	75	50	25	5	1	Average
	769.8	679.3	382.8	58.1	0.0	0.0	0.0	195.0 ppb

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-Apr-04	0	0	0	0	0	0	8	99	245	387	562	647	695	693	645	551	414	219	120	12	0	0	0	0	221	695
2-Apr-04	0	0	0	0	0	0	12	127	278	423	547	631	680	679	620	535	394	245	78	6	0	0	0	0	219	680
3-Apr-04	0	0	0	0	0	0	14	116	266	429	557	653	700	701	654	560	371	118	72	10	0	0	0	0	218	701
4-Apr-04	0	0	0	0	0	0	8	145	302	446	566	654	704	704	584	543	426	270	118	8	0	0	0	0	228	704
5-Apr-04	0	0	0	0	0	0	18	138	295	443	563	607	497	594	685	579	436	274	62	16	0	0	0	0	217	685
6-Apr-04	0	0	0	0	0	0	21	139	300	446	568	639	659	705	654	561	432	286	133	15	0	0	0	0	232	705
7-Apr-04	0	0	0	0	0	0	12	66	234	349	364	379	467	502	363	384	217	229	131	15	0	0	0	0	155	502
8-Apr-04	0	0	0	0	0	0	27	129	298	460	577	664	710	710	670	590	242	237	137	20	0	0	0	0	228	710
9-Apr-04	0	0	0	0	0	0	33	155	307	461	582	670	433	735	535	578	445	279	139	24	0	0	0	0	224	735
10-Apr-04	0	0	0	0	0	0	32	152	291	410	560	656	677	576	410	274	227	216	94	12	0	0	0	0	191	677
11-Apr-04	0	0	0	0	0	0	19	76	168	221	421	601	609	667	351	362	469	197	97	8	0	0	0	0	178	667
12-Apr-04	0	0	0	0	0	0	21	63	79	51	78	108	94	83	93	101	54	30	16	2	0	0	0	0	36	108
13-Apr-04	0	0	0	0	0	0	22	50	68	162	237	276	260	240	208	188	164	88	46	13	0	0	0	0	84	276
14-Apr-04	0	0	0	0	0	0	10	38	89	178	237	269	245	141	158	99	101	49	26	13	0	0	0	0	69	269
15-Apr-04	0	0	0	0	0	0	26	96	213	397	491	612	607	565	696	339	204	173	75	19	0	0	0	0	188	696
16-Apr-04	0	0	0	0	0	2	48	202	377	490	632	770	763	535	491	605	522	343	189	45	0	0	0	0	251	770
17-Apr-04	0	0	0	0	0	1	44	227	264	388	468	609	584	472	564	489	301	273	196	41	0	0	0	0	205	609
18-Apr-04	0	0	0	0	0	3	68	138	224	329	505	569	525	311	366	246	197	178	94	15	0	0	0	0	157	569
19-Apr-04	0	0	0	0	0	2	43	202	384	404	541	457	624	695	680	457	334	129	92	27	1	0	0	0	211	695
20-Apr-04	0	0	0	0	0	4	82	210	385	531	642	757	548	265	557	649	435	245	87	29	1	0	0	0	226	757
21-Apr-04	0	0	0	0	0	3	36	77	359	539	655	729	799	565	471	525	407	292	191	32	1	0	0	0	237	799
22-Apr-04	0	0	0	0	0	2	45	202	389	527	628	673	702	685	445	550	N	166	73	19	0	0	0	0	222	702
23-Apr-04	0	0	0	0	0	1	31	82	131	153	178	342	142	N	315	153	245	305	182	79	1	0	0	0	102	342
24-Apr-04	0	0	0	0	0	8	108	184	308	445	614	659	846	625	761	408	493	308	89	42	2	0	0	0	246	846
25-Apr-04	0	0	0	0	0	6	62	177	293	481	473	380	493	800	597	472	277	178	97	29	1	0	0	0	201	800
26-Apr-04	0	0	0	0	0	7	61	99	201	254	291	253	513	362	452	241	226	205	158	37	1	0	0	0	140	513
27-Apr-04	0	0	0	0	0	2	26	55	44	68	146	212	406	432	425	357	337	333	157	66	3	0	0	0	128	432
28-Apr-04	0	0	0	0	0	8	80	232	419	558	635	745	732	790	771	526	390	254	96	39	4	0	0	0	262	790
29-Apr-04	0	0	0	0	0	8	98	254	430	575	694	664	588	737	676	646	562	396	196	65	5	0	0	0	275	737
30-Apr-04	0	0	0	0	0	15	125	249	426	571	691	768	811	810	766	672	541	393	237	86	6	0	0	0	299	811
																									N	0
Hourly Avg	0	0	0	0	0	2	41	139	269	386	490	555	570	565	522	441	340	230	116	28	1	0	0	0		
Hourly Max	0	0	0	0	0	15	125	254	430	575	694	770	846	810	771	672	562	396	237	86	6	0	0	0		



Station: Henry Pirker

HOURLY AVERAGE TABLE**Wind Speed (WS - Km/hr)**

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004
Summary

Maximum 1-hr Average:	42.3	km/hr	23-Apr	18:00 19:00
Maximum 24-hr Average:	26.1	km/hr	24-Apr	

Calm Time:	0 hrs		0% calms		Operational Time:		715 hrs		
Calibration Time:	3 hrs				AMD Operational Uptime:		99.3%		
Percentile	99	95	75	50	25	5	1	AverageS	AverageV
	36.6	29.5	13.7	8.7	5.7	2.9	1.0	11.1 km/hr	5.2 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	24-hr Vector Average	Daily Max
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Apr-04	8	6	4	5	4	4	4	7	9	14	18	16	16	14	15	13	14	11	9	12	12	14	12	13	10.7	9.7	18.0
2-Apr-04	7	6	7	10	6	5	5	5	6	5	6	7	8	8	8	8	10	9	9	8	10	11	11	5	7.5	1.9	11.3
3-Apr-04	4	4	4	1	1	3	3	2	3	4	4	5	8	7	8	8	9	5	8	7	6	4	5	7	4.9	2.9	9.4
4-Apr-04	10	18	23	34	29	21	19	22	25	27	31	36	40	39	36	33	32	28	23	19	17	11	5	8	24.3	23.7	39.7
5-Apr-04	5	4	4	4	3	3	4	3	3	4	6	8	8	8	7	5	5	7	7	5	9	19	12	8	6.3	2.8	19.3
6-Apr-04	10	8	9	10	10	11	7	10	13	9	9	7	8	9	10	9	7	6	5	4	6	10	10	9	8.8	4.5	13.5
7-Apr-04	8	10	11	11	10	7	4	3	7	8	5	4	4	5	4	5	7	6	6	4	4	10	13	9	6.8	1.5	13.0
8-Apr-04	8	7	5	8	7	5	6	10	16	19	18	18	20	22	21	19	16	14	10	9	5	5	4	4	12.1	11.0	21.6
9-Apr-04	5	6	6	5	6	7	10	10	12	11	10	11	13	15	13	15	15	13	8	3	4	4	3	3	8.5	6.5	14.8
10-Apr-04	4	4	4	2	3	2	1	3	2	7	9	7	8	10	8	6	4	7	7	4	14	13	7	8	6.0	3.8	14.0
11-Apr-04	10	8	6	2	3	2	2	2	3	5	5	15	14	15	12	11	9	10	11	10	9	9	10	8	8.1	2.2	14.6
12-Apr-04	6	8	8	10	9	13	15	20	20	17	14	13	13	13	14	14	13	12	10	10	10	10	10	11	12.1	10.1	19.7
13-Apr-04	11	7	1	1	1	1	1	1	1	1	1	5	7	8	4	8	11	11	10	10	10	10	9	9	5.8	4.9	11.4
14-Apr-04	7	7	7	8	7	7	6	7	8	10	12	12	13	11	10	8	9	9	12	16	15	14	13	13	10.0	5.9	15.8
15-Apr-04	14	17	16	15	14	16	14	17	16	16	15	13	17	17	17	13	9	8	8	10	8	8	8	9	13.1	12.4	17.4
16-Apr-04	8	10	9	8	5	5	5	5	7	8	5	4	7	8	9	8	10	9	10	8	8	10	10	10	7.7	1.3	10.4
17-Apr-04	9	9	6	4	2	3	5	3	5	4	5	5	5	5	10	10	8	4	5	6	5	5	4	5	5.5	1.1	10.1
18-Apr-04	5	4	4	4	3	4	2	4	4	3	6	7	11	12	14	13	12	10	8	7	14	10	11	11	7.7	5.5	13.8
19-Apr-04	11	12	14	11	12	12	11	13	21	23	25	21	20	19	19	16	15	9	9	8	8	6	8	9	13.8	8.4	25.2
20-Apr-04	9	6	6	4	3	3	3	3	3	4	6	6	7	4	6	7	7	4	8	8	7	9	7	7	5.9	2.6	9.3
21-Apr-04	4	4	3	3	4	3	4	3	8	10	12	16	23	22	26	31	32	29	25	15	11	12	9	6	13.2	10.6	31.7
22-Apr-04	5	5	4	5	7	6	6	5	8	9	10	C	C	C	8	9	N	16	13	9	5	3	5	9	7.2	1.9	16.5
23-Apr-04	9	8	6	6	6	5	4	2	4	6	6	15	22	N	36	27	37	40	42	42	33	29	18	19	18.4	14.7	42.3
24-Apr-04	23	23	21	17	18	18	14	23	29	32	32	36	38	35	36	36	35	33	30	23	21	19	18	17	26.1	25.4	37.8
25-Apr-04	14	12	11	7	9	9	8	9	16	23	27	28	24	27	31	29	29	27	27	27	16	10	9	12	18.4	17.7	30.6
26-Apr-04	11	11	11	9	6	3	8	8	8	13	20	29	32	38	33	33	33	34	30	24	18	17	17	13	19.2	18.2	37.8
27-Apr-04	14	11	13	20	22	17	16	17	17	13	12	17	19	24	25	30	26	25	28	29	19	11	7	10	18.4	15.0	30.4
28-Apr-04	10	9	5	4	6	8	6	12	12	16	17	17	19	19	22	22	22	23	22	13	6	4	4	4	12.6	11.4	23.4
29-Apr-04	6	6	7	6	5	5	5	4	7	9	9	8	7	9	11	9	9	7	10	8	7	7	5	5	7.1	3.8	10.6
30-Apr-04	4	6	6	8	6	5	6	8	7	5	9	10	7	7	8	7	6	4	7	11	9	10	10	9	7.2	5.7	10.6
																									N	N	0.0
1-hr Scalar	8.6	8.5	8.0	8.1	7.5	7.0	6.8	8.0	10.1	11.2	12.2	13.6	15.1	15.2	15.9	15.4	15.6	14.5	14.1	12.4	11.0	10.5	9.2	9.0			
1-hr Vector	3.2	3.2	3.4	3.4	3.6	3.3	3.2	3.9	4.6	5.8	6.3	8.3	9.4	9.5	10.2	9.8	8.9	7.5	6.3	4.9	3.6	2.7	1.7	2.1			
Hourly Max	22.9	22.7	22.8	33.8	29.2	20.7	18.7	22.6	29.5	31.7	31.8	36.3	39.7	39.2	36.1	36.3	36.6	40.3	42.3	42.1	33.3	28.8	18.0	18.6			

HOURLY AVERAGE TABLE

Wind Direction (WD - Degrees)

Station: Henry Pirker

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004
Summary

Calm Time:	0 hrs				0% calms		Operational Time:	715 hrs	
Calibration Time:	3 hrs						AMD Operational Uptime:	99.3%	
Percentile	99	95	75	50	25	5	1	Average	
	344.0	296.6	238.9	110.5	75.7	33.6	16.7	89 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
1-Apr-04	33	29	34	28	7	326	7	20	30	48	56	62	67	64	82	93	87	69	33	58	61	55	51	73	57
2-Apr-04	110	33	21	44	57	91	318	315	346	20	28	19	32	35	343	325	254	232	230	231	239	251	249	164	323
3-Apr-04	127	116	111	49	313	217	290	152	28	335	46	35	76	141	127	126	122	114	105	123	112	124	100	78	108
4-Apr-04	89	73	66	61	54	52	39	33	44	55	65	61	59	60	63	58	55	53	52	54	53	76	89	61	57
5-Apr-04	355	22	124	11	30	111	64	91	104	50	75	101	99	117	105	49	231	249	236	248	37	102	132	106	96
6-Apr-04	106	123	103	48	60	53	72	68	95	89	86	86	98	94	106	100	102	111	110	240	245	244	254	264	93
7-Apr-04	257	250	244	247	247	240	270	245	251	257	275	57	78	30	67	87	133	202	245	16	342	31	68	70	256
8-Apr-04	76	73	77	56	77	71	58	53	51	86	92	100	104	105	99	103	103	115	126	101	105	127	121	121	94
9-Apr-04	85	78	62	77	77	84	70	63	50	47	39	35	73	67	131	106	107	106	124	116	234	230	132	106	81
10-Apr-04	123	127	93	116	28	87	56	106	346	35	37	43	7	48	62	75	293	271	278	20	56	55	56	57	47
11-Apr-04	64	72	85	93	118	338	117	159	351	39	40	105	109	127	120	117	206	216	233	241	247	244	248	255	139
12-Apr-04	244	248	237	239	260	283	289	282	259	234	241	266	239	237	242	230	232	230	235	233	232	240	242	254	247
13-Apr-04	250	259	272	270	266	266	272	277	268	271	263	261	249	260	266	258	255	239	240	236	235	232	229	231	245
14-Apr-04	235	241	238	236	236	237	233	235	232	231	238	236	232	235	233	302	282	298	135	137	138	146	140	133	208
15-Apr-04	130	143	135	131	124	119	120	117	130	140	151	136	99	94	96	113	134	128	112	121	103	108	102	91	121
16-Apr-04	101	114	110	87	139	47	91	101	86	83	78	27	289	285	265	298	270	263	259	247	242	246	255	260	237
17-Apr-04	257	259	262	267	270	312	293	321	50	55	35	72	58	60	90	99	99	133	59	356	308	277	302	301	3
18-Apr-04	284	266	275	277	277	275	303	294	275	291	284	337	8	19	359	339	335	335	338	326	50	26	14	35	344
19-Apr-04	44	52	46	36	41	46	40	40	57	79	100	111	113	113	111	113	112	60	274	264	256	241	234	243	81
20-Apr-04	228	234	238	266	194	180	87	89	32	42	278	280	255	99	122	102	96	104	232	235	231	242	255	266	236
21-Apr-04	211	198	201	69	84	99	124	46	38	35	51	72	82	80	70	70	81	96	103	110	118	114	189	271	83
22-Apr-04	137	119	97	141	105	127	134	144	247	275	287	C	C	C	16	43	N	87	65	83	90	278	256	288	86
23-Apr-04	290	289	291	300	274	171	90	68	20	356	42	87	89	N	86	72	74	77	76	74	75	76	88	90	75
24-Apr-04	76	77	75	81	88	79	78	79	82	80	88	98	94	95	98	104	98	103	108	86	81	76	76	76	89
25-Apr-04	73	69	78	144	91	84	87	77	80	77	88	91	88	89	94	100	101	100	101	101	97	81	110	91	92
26-Apr-04	78	64	68	63	24	37	32	32	44	68	64	70	78	92	93	88	90	94	83	79	76	60	79	90	78
27-Apr-04	79	64	65	89	118	100	84	116	146	159	146	158	156	152	157	163	163	169	169	169	176	154	83	123	141
28-Apr-04	132	111	122	46	68	75	88	78	65	69	76	81	69	65	75	81	90	96	108	119	109	111	114	137	87
29-Apr-04	132	145	148	143	143	131	123	119	235	249	254	194	204	198	193	150	131	233	208	227	268	271	290	292	199
30-Apr-04	257	258	257	264	257	246	274	287	323	344	304	293	309	296	255	195	288	273	279	273	275	276	287	288	279
Hourly Avg	95	90	86	74	82	81	65	64	64	71	76	86	87	91	94	94	98	101	111	110	100	101	109	93	

Station: Henry Pirker

STANDARD DEVIATION TABLE

Wind Direction (WD - Degrees)

Station Owner: PASZA

Monitoring Dates: April 1, 2004 to May 1, 2004
Summary

Determined by the Yamartino 15-min interval calculation

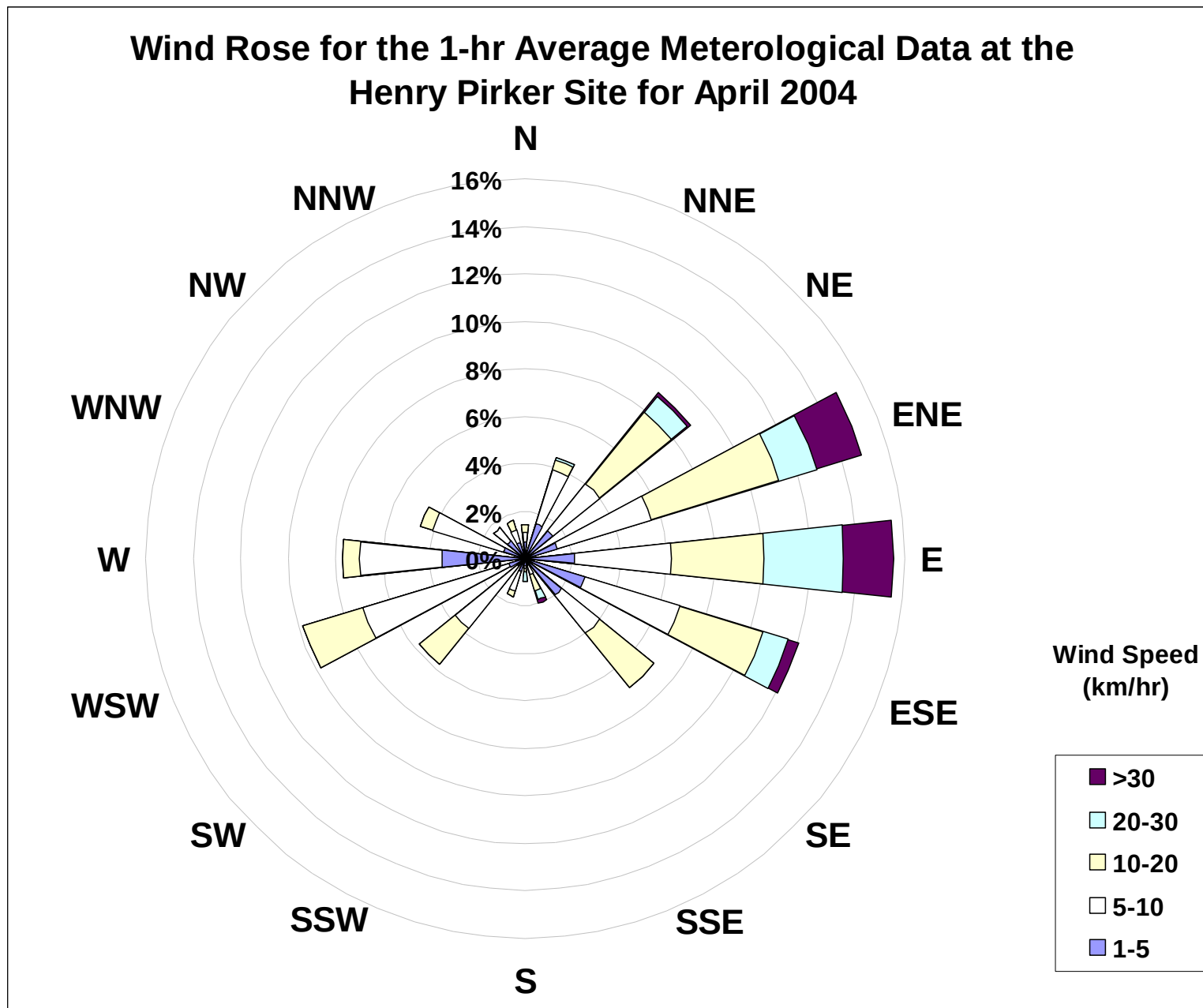
Calm Time:	0 hrs					0% calms		Operational Time:	715 hrs
Calibration Time:	3 hrs							AMD Operational Uptime:	99.3%
Percentile	99	95	75	50	25	5	1		
	71.0	55.9	28.7	12.4	6.9	4.5	3.4		

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	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Apr-04	7	9	8	8	13	22	24	17	9	8	8	9	11	10	12	16	8	9	9	5	7	5	6	5	24.2
2-Apr-04	31	30	6	5	8	26	39	12	17	17	18	22	27	29	39	33	19	13	12	17	5	4	5	34	38.9
3-Apr-04	8	13	32	22	71	39	36	55	44	47	66	65	16	73	56	62	52	24	25	9	9	26	20	21	73.1
4-Apr-04	6	6	3	5	4	6	5	5	5	6	7	7	6	7	7	8	7	6	5	4	4	9	8	29	28.6
5-Apr-04	24	31	53	14	26	44	25	37	37	21	32	32	39	38	56	59	64	27	20	47	28	8	16	11	63.8
6-Apr-04	5	8	9	14	7	5	5	10	7	12	21	38	49	37	40	44	47	49	35	48	4	4	4	5	49.3
7-Apr-04	4	5	4	4	5	8	46	48	14	22	61	54	73	68	40	40	23	86	77	52	32	5	8	8	86.2
8-Apr-04	10	5	15	9	14	18	18	12	5	10	10	11	9	12	12	14	9	8	8	4	5	5	16	13	18.1
9-Apr-04	16	8	12	7	6	4	5	7	5	8	11	21	21	17	45	14	17	12	15	33	29	13	58	20	57.6
10-Apr-04	16	43	21	29	27	36	31	26	55	16	14	25	26	22	27	42	43	15	14	39	6	8	14	8	55.3
11-Apr-04	6	4	6	16	49	47	57	51	39	11	30	16	17	19	24	20	87	68	20	8	7	5	5	7	87.3
12-Apr-04	35	35	25	31	39	39	44	39	29	18	29	42	37	28	31	19	12	18	23	26	22	32	28	37	43.8
13-Apr-04	37	38	41	41	36	38	44	37	37	35	39	42	40	48	46	39	40	30	32	26	25	22	14	9	48.4
14-Apr-04	9	7	7	8	8	8	22	28	24	15	9	8	16	15	15	68	52	59	50	23	21	6	5	4	68.3
15-Apr-04	4	5	5	5	5	6	5	5	7	7	7	9	7	7	9	18	17	12	9	7	6	5	8	4	17.7
16-Apr-04	5	4	7	7	7	21	14	10	6	5	13	52	45	27	29	29	21	26	14	12	6	6	5	5	51.6
17-Apr-04	5	5	9	14	71	29	14	27	17	32	25	17	43	28	20	14	31	71	42	15	9	8	10	7	71.3
18-Apr-04	10	11	6	10	22	9	43	26	17	41	25	39	21	15	15	9	7	12	6	6	27	8	5	6	43.1
19-Apr-04	8	7	6	6	5	5	6	6	7	8	8	9	12	14	12	14	10	24	56	40	41	18	11	6	56.4
20-Apr-04	8	25	23	18	43	66	21	15	36	65	34	67	73	60	68	71	52	57	18	9	7	8	6	5	72.8
21-Apr-04	30	62	56	19	20	31	44	43	10	14	12	25	13	17	11	10	16	6	5	4	9	47	49	70	70.4
22-Apr-04	27	12	19	23	19	10	43	44	15	20	24	C	C	C	51	33	N	11	9	5	38	36	49	8	51.4
23-Apr-04	4	9	8	8	38	15	19	35	49	28	14	10	12	N	8	8	6	6	4	4	3	4	5	5	49.0
24-Apr-04	3	3	3	5	5	4	6	6	6	7	8	9	9	11	9	8	9	7	5	5	4	3	3	4	11.2
25-Apr-04	5	5	17	8	9	8	11	11	8	10	8	9	8	10	11	8	8	7	5	3	6	7	6	6	17.4
26-Apr-04	5	5	5	6	9	42	5	6	15	11	7	5	6	6	7	7	6	6	5	6	6	5	7	7	42.4
27-Apr-04	6	5	5	6	9	6	5	8	12	8	11	6	9	11	10	9	11	14	6	5	3	18	14	5	18.1
28-Apr-04	4	5	42	42	16	10	11	10	10	11	12	19	16	14	17	12	19	12	5	7	8	33	12	34	41.8
29-Apr-04	10	9	5	7	14	17	19	24	42	30	21	49	41	41	29	60	40	57	18	13	7	6	6	10	59.8
30-Apr-04	9	9	13	7	12	21	12	13	18	46	24	28	49	53	49	59	55	69	16	8	5	5	5	4	68.7
Hourly Max	37	62	56	42	71	66	57	55	55	65	66	67	73	73	68	71	87	86	77	52	41	47	58	70	



PEACE AIRSHED ZONE ASSOCIATION

PASZA Monthly Passive Data Summary

Table 1. PASZA Passive Stations for April 2004

Peace Airshed Zone Association - PASZA Passive Stations for April 2004

PASZA					
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
Duplicates					
20a	Shaftesbury	0.2	40.3	0.8	
20b	Shaftesbury	0.2	40.3	1.0	
35a	Jean Cote	0.2	43.1	0.7	
35b	Jean Cote	0.2	41.6	0.8	
40a	McLennan	0.4	45.4	1.1	
40b	McLennan	0.4	44.0	1.3	
49a	Grande Prairie HP	0.3	36.1	8.7	
49b	Grande Prairie HP	0.3	43.2	8.2	

1	Silver Valley	0.4	43.4	1.3	08-27-081-11 W6M
2	Bay Tree	0.2	45.2	0.6	13-16-078-13 W6M
3	Forth Creek	0.3	48.5	1.3	04-13-082-07 W6M
4	Gordondale	0.4	48.7	1.4	04-34-078-10 W6M
5	Boone Creek	0.2	42.3	0.7	01-23-076-11 W6M
7	Steepprock Creek	0.2	49.8	0.6	09-35-072-13 W6M
9	Spirit River	0.2	47.7	1.4	08-12-079-07 W6M
10	Woking	0.2	50.5	1.0	01-13-076-07 W6M
11	Webber Creek	0.2	47.3	1.1	09-36-074-09 W6M
12	Hythe	0.1	42.6	1.7	14-36-072-11 W6M
14	Sylvester	0.2	47.3	0.5	08-06-069-12 W6M
16	Beaverlodge	0.3	48.3	1.6	15-36-071-10 W6M
17	Poplar	0.3	45.8	1.5	13-06-073-08 W6M
18	Saddle Hills	0.4	48.4	1.1	04-25-074-07 W6M

Table 1. PASZA Passive Stations for April 2004 (Continued)

19	Wanham	0.4	50.4	1.2	16-22-077-03 W6M
20	Shaftesbury	0.2	40.3	0.9	04-03-082-23 W5M
21	Eaglesham	0.3	41.8	0.7	16-21-079-25 W5M
23	Bear Lake	0.2	51.8	1.7	15-31-072-06 W6M
24	Wembley	0.2	42.0	1.7	12-31-070-08 W6M
25	Pinto Creek	0.1	48.4	0.9	04-24-069-11 W6M
26	Flyingshot	0.2	37.7	2.1	15-36-070-07 W6M
27	Grande Prairie I	0.3	37.2	6.0	08-15-071-06 W6M
28	Clairmont Lake	0.2	47.9	1.3	09-06-073-04 W6M
29	Smoky Heights	0.4	50.3	0.6	04-06-075-02 W6M
30	Fitzsimmons	0.3	41.2	1.4	15-36-072-03 W6M
32	Gold Creek	0.3	37.8	1.2	06-33-067-05 W6M
33	Wapiti	0.3	51.3	1.1	02-25-071-03 W6M
34	Puskwaskau	0.3	39.7	0.3	15-35-074-25 W5M
35	Jean Cote	0.2	42.3	0.8	12-35-079-21 W5M
36	Guy	0.3	45.8	0.9	03-04-076-22 W5M
37	Crooked Creek	0.3	49.8	1.6	16-01-071-26 W5M
38	Karr Creek	0.1	37.1	0.5	10-16-065-02 W6M
39	Clouston Creek	0.3	41.7	0.8	12-01-073-22 W5M
40	McLennan	0.4	44.7	1.2	03-29-077-19 W5M
41	Valleyview	0.5	44.3	1.0	09-30-069-22 W5M
42	Sunset House	0.3	50.6	1.0	05-32-070-19 W5M
43	High Prairie	0.2	45.3	1.7	16-13-074-17 W5M
44	Peavine	0.2	41.1	0.7	03-05-079-15 W5M
45	Gift Lake	0.1	42.5	1.4	10-07-079-12 W5M
46	Little Smoky	0.3	39.0	2.6	12-01-065-21 W5M
47	Kinuso	0.1	39.1	0.9	12-10-073-10 W5M
48	Deer Mountain	0.2	36.6	0.5	15-22-068-09 W5M
49	Grande Prairie HP	0.3	39.7	8.5	17-26-071-06 W6M
50	Tiger Energy	0.3	40.4	1.8	11-13-079-08 W6M

Wanham Sample for SO₂ was exposed for two months

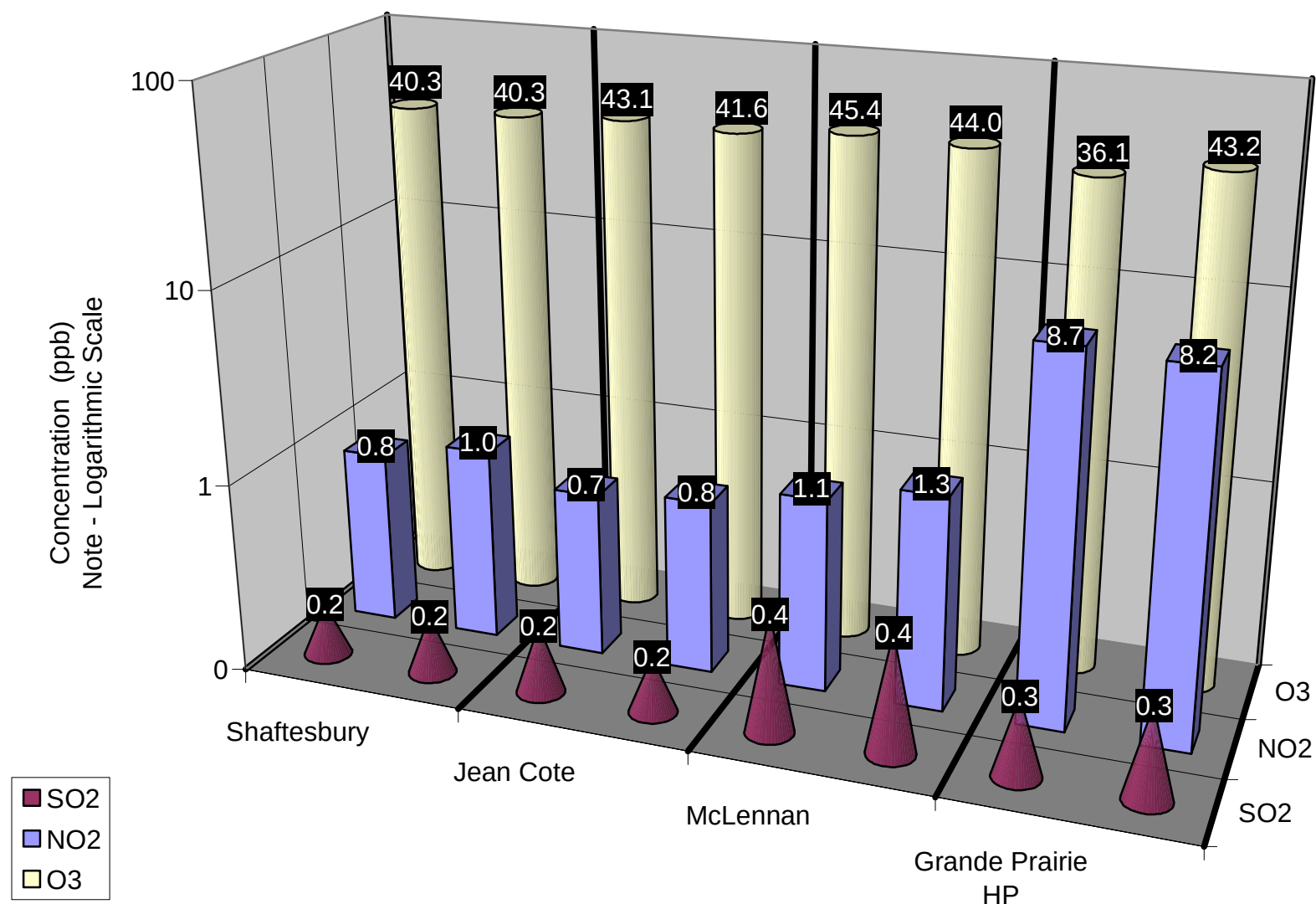


Figure 20. Duplicate Summary Chart

Table 2. Passive Summary Results for April 2004

Stats	Sulphur Dioxide SO ₂	Ozone O ₃	Nitrogen Dioxide NO ₂
	ppb	ppb	ppb

Passive Summary for April 2004 (PASZA Zone)			
Mean	0.3	44.4	1.4
Standard Deviation	0.1	4.5	1.4
Minimum	0.1	36.6	0.3
	Pinto Creek (#25)	Deer Mountain (#48)	Puskwaskau (#34)
Maximum	0.5	51.8	8.5
	Valleyview (#41)	Bear Lake (#23)	Grande Prairie HP (#49)

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

	SO ₂	O ₃	NO ₂
AENV Beaverlodge station	0.3	40.7	3.8
PASZA Beaverlodge passive	0.3	48.3	1.6

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	35.4	7.9
PASZA Grande Prairie passive	0.3	39.7	8.5

PASZA Passive SO₂ Stations - April 2004
Average Concentrations in ppb

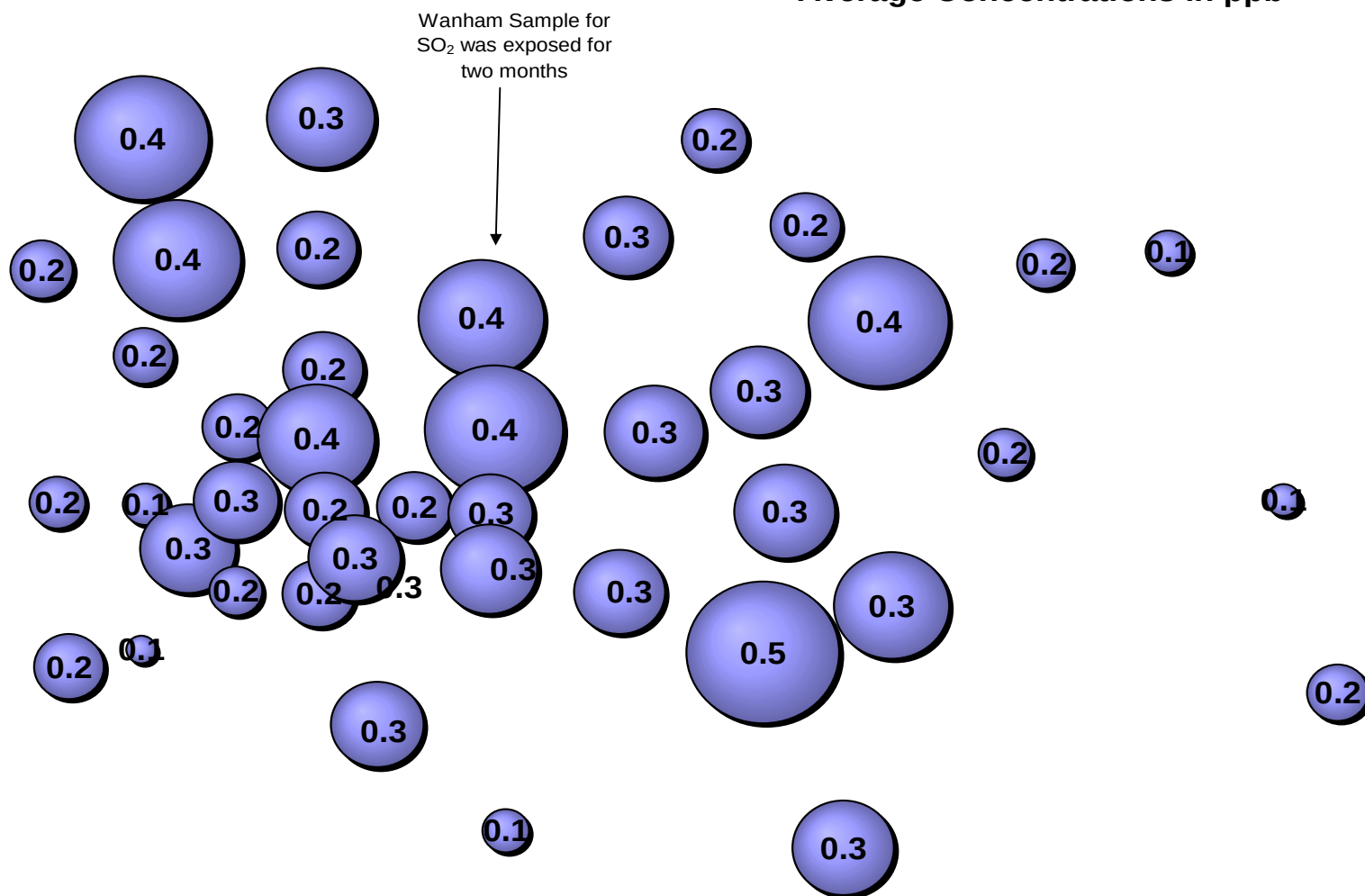


Figure 21. SO₂ Bubble Chart

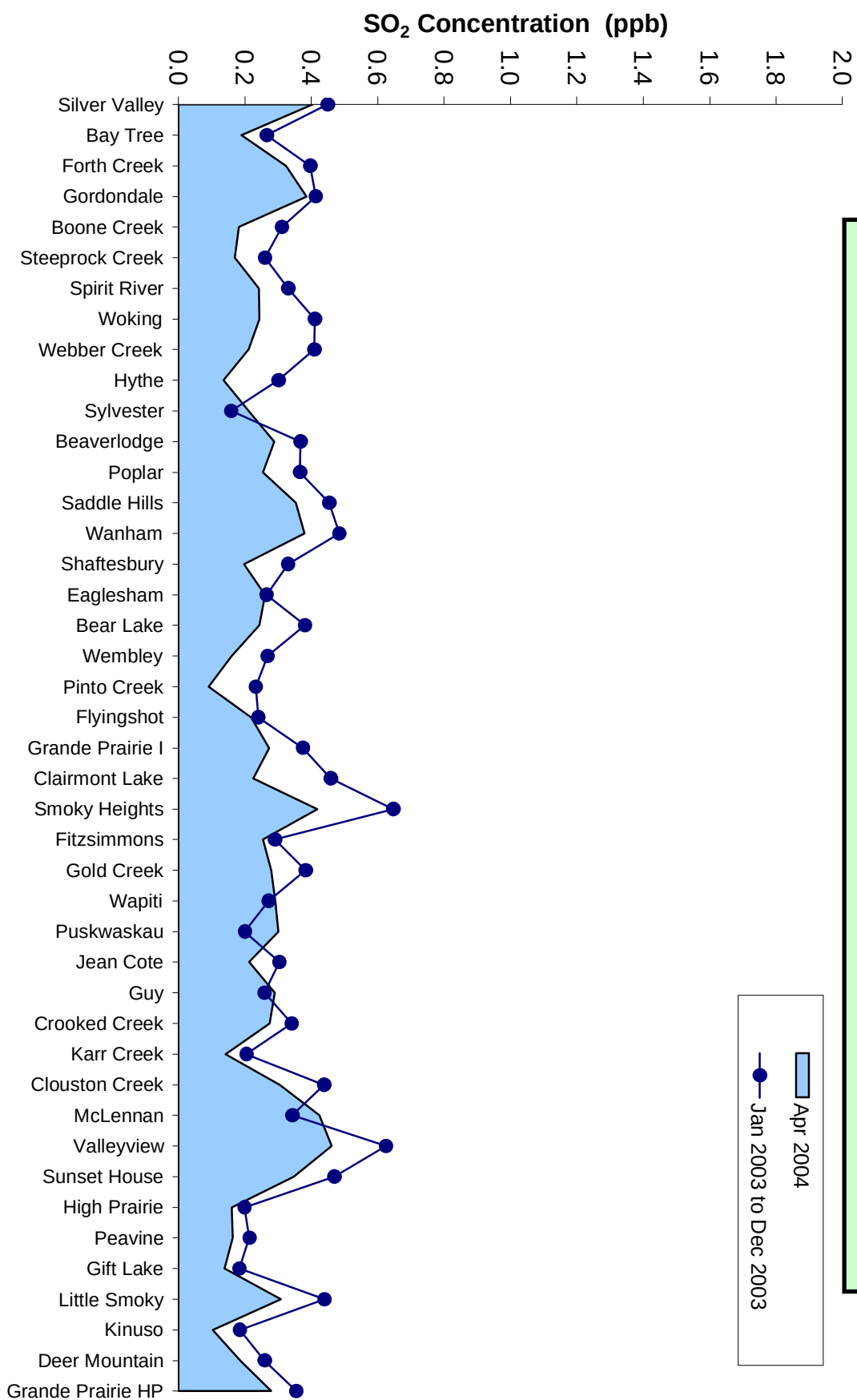


Figure 22. SO₂ Summary Chart

PASZA Passive O₃ Stations - April 2004
Average Concentrations in ppb

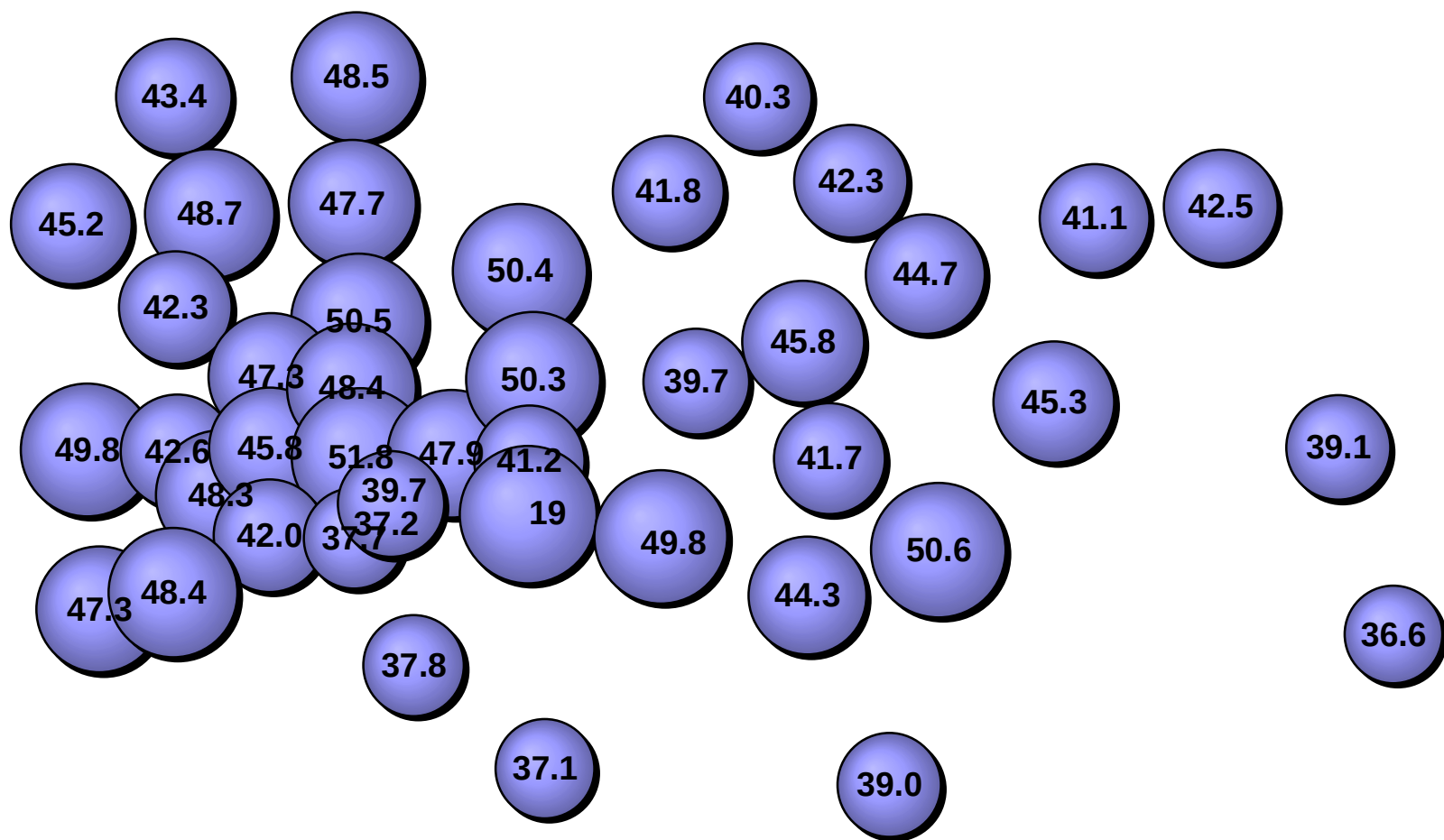


Figure 23. O₃ Bubble Chart

Alberta Ambient Air Quality Guidelines - No Annual O₃ Guideline

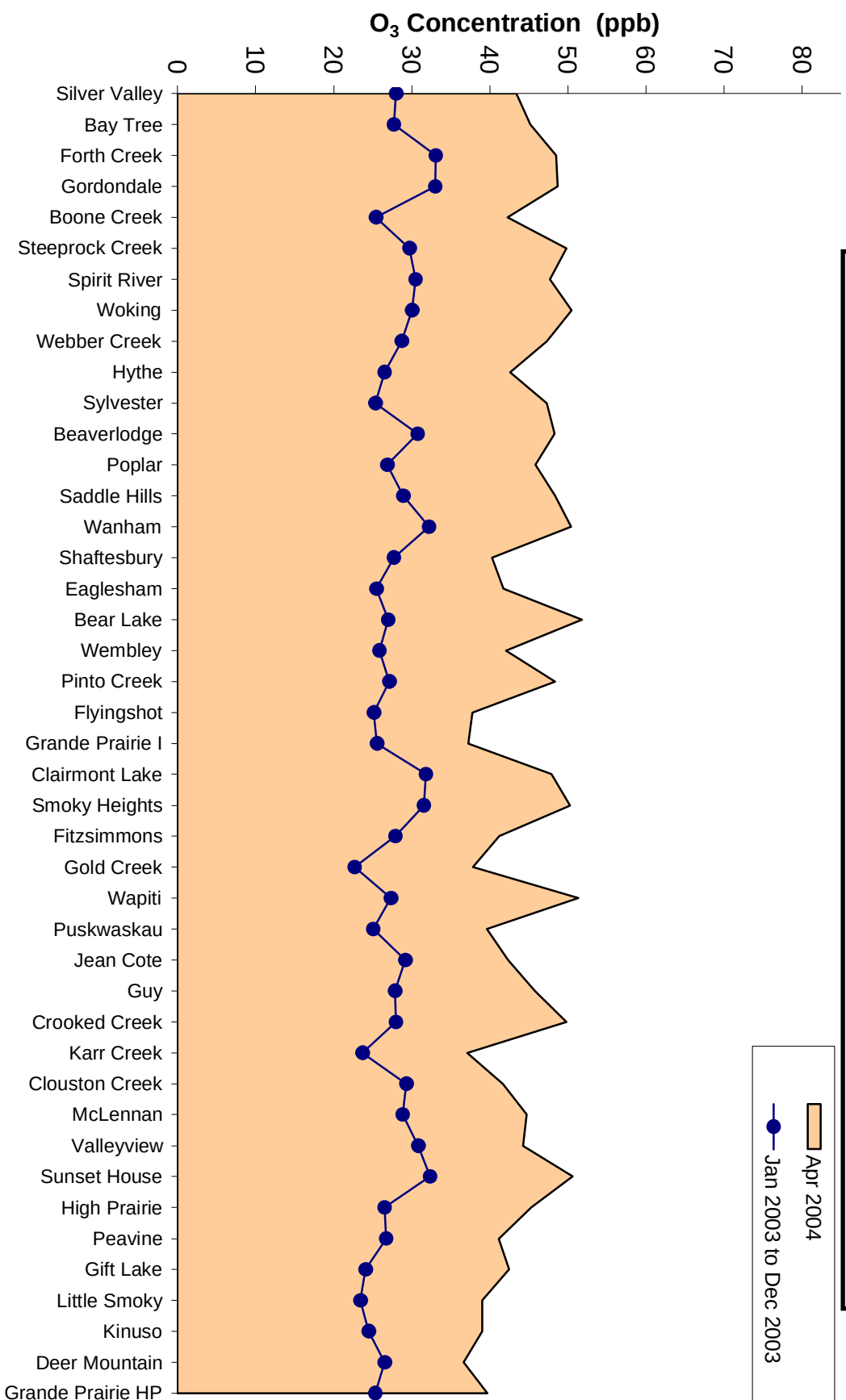
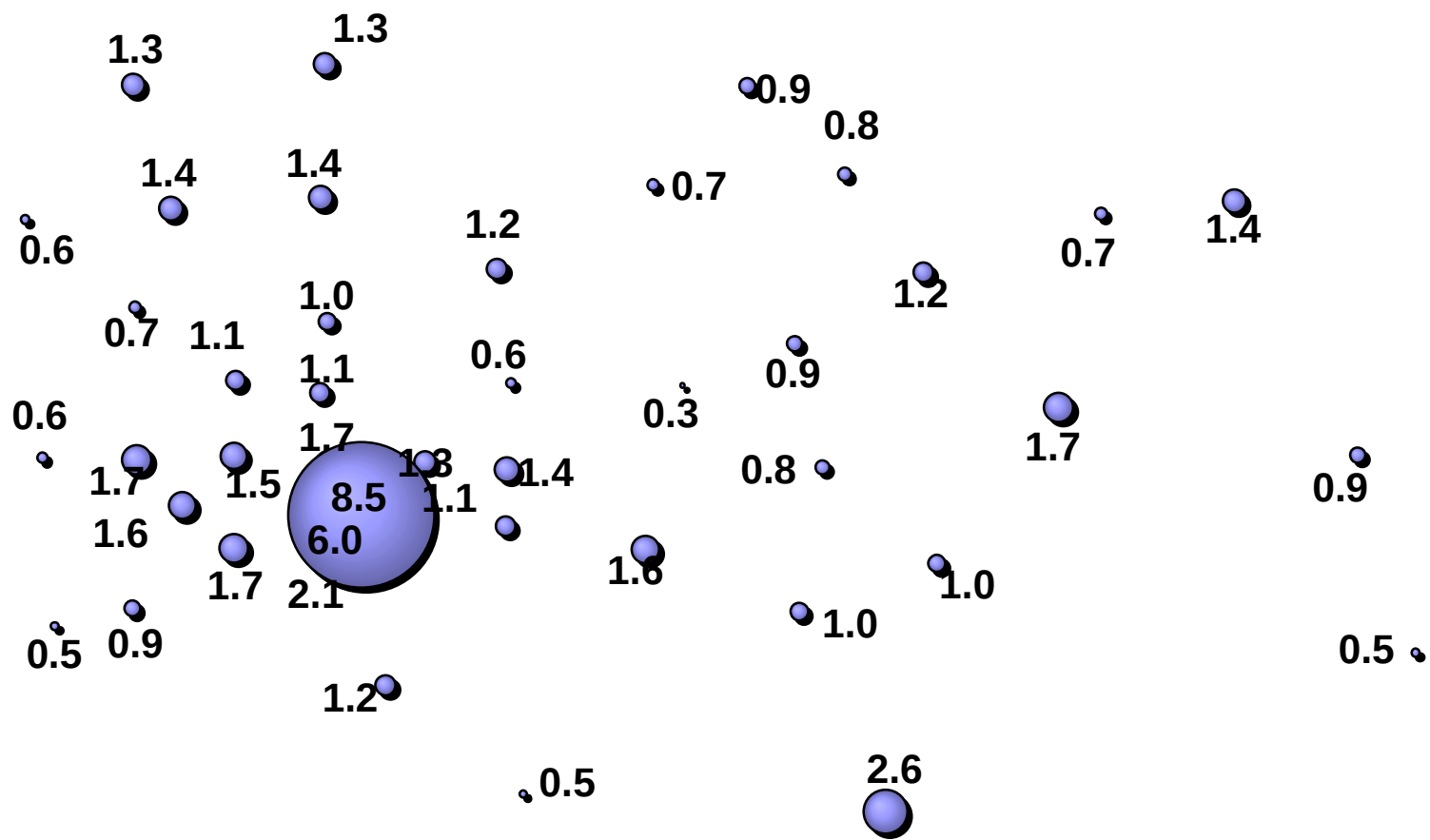


Figure 24. O₃ Summary Chart

PASZA Passive NO₂ Stations - April 2004
Average Concentrations in ppb



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

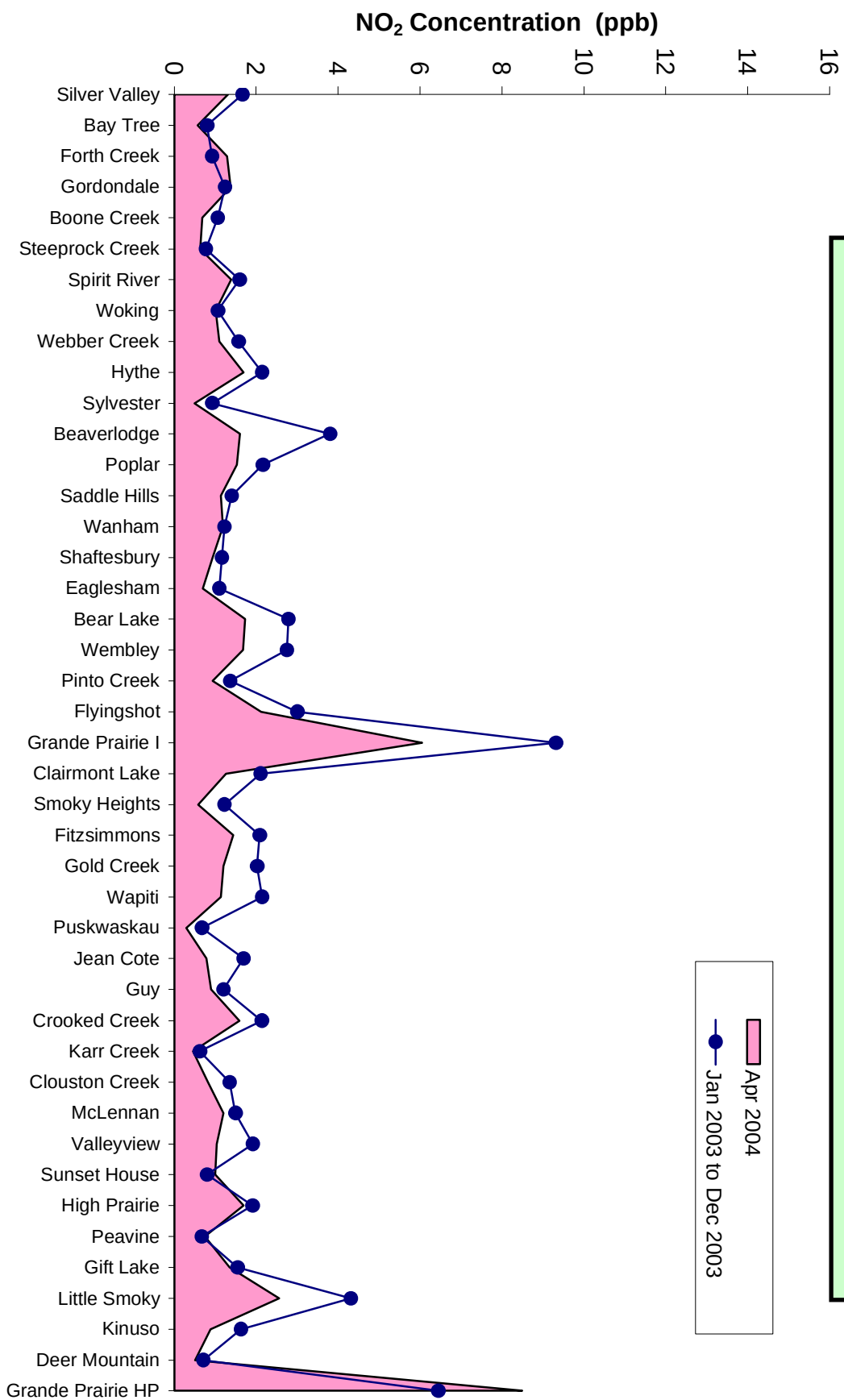


Figure 26. NO₂ Summary Chart

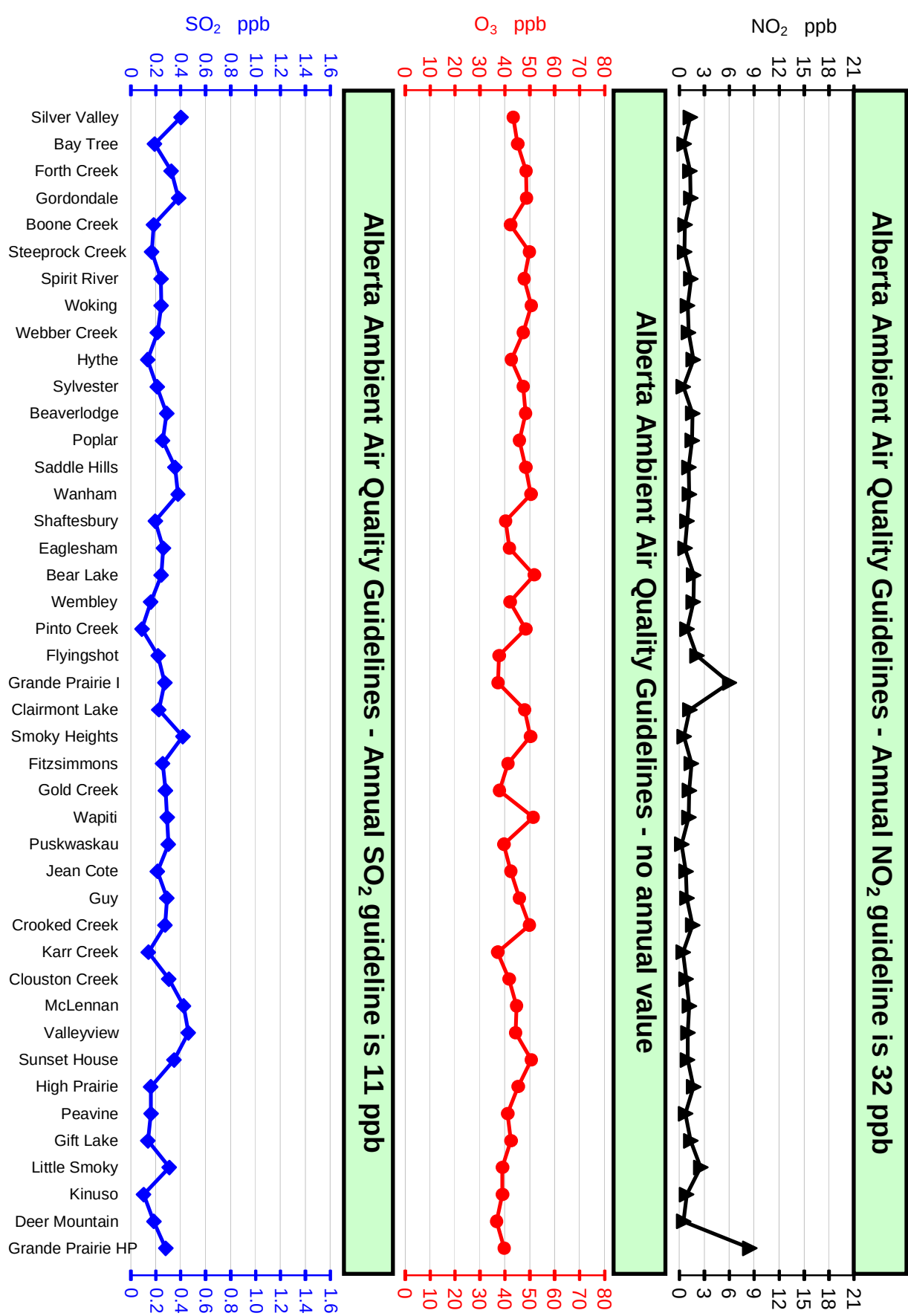


Figure 27. Overview Summary

April 2004 Calibration Reports

PASZA - Henry Pirker Station with the following calibrations:

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

Calibration Report

Parameter SO2Air Monitoring Network PASZA

Station Information

Calibration Date	April 21, 2004	Previous Calibration	March 17, 2004
Station Number	1	Station Location	Muskoseepi Park
Reason:	☐ Routine	☒ Install	☐ Removal

Start Time (MST)	13:50	End Time (MST)	17:30
Barometric Pressure	27.5 inches Hg	Station Temperature	21.0 Deg C
Calibrator	VICI Metronics	Serial Number	NA
Perm-tube Conc	2,995 ng/min	Perm-tube Expiry Date	12/10/2005
Correction factor	0.931623	Perm-tube Cert #	19-13334
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	1.002541	Calculated slope	0.998651
Calculated intercept	0.157999	Calculated intercept	-0.718662

Analyzer make	TEI Model 43A	Analyzer serial #	NA
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	before		after	
Concentration range	NA	ppb	0 - 500	ppb
SO2 zero pot	NA		206	
SO2 span pot	NA		092	
Vacuum	NA	in Hg	22.1	in Hg

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	2860.1	0.0	0.3	N/A
3070	2860.1	399.7	400.5	0.9980
6095	5678.2	201.3	203.2	0.9907
11700	10900.0	104.9	105.8	0.9915
zero				As Found Zero
				As Found Span
Average Correction Factor				0.9934

Calculated value of As Found Response: NA

Percent Change of As Found: NA

	before calibration		after calibration	
Auto zero	NA	ppm	0.3	ppm
Auto span	NA	ppm	358.6	ppm

Notes: Analyzer was installed to replace previous SO2 analyzer. All functions seem normal.Calibration Performed By: Kelly Baragar

Calibration Summary

FOCUS INTEC
Air Quality Monitoring

Parameter SO2

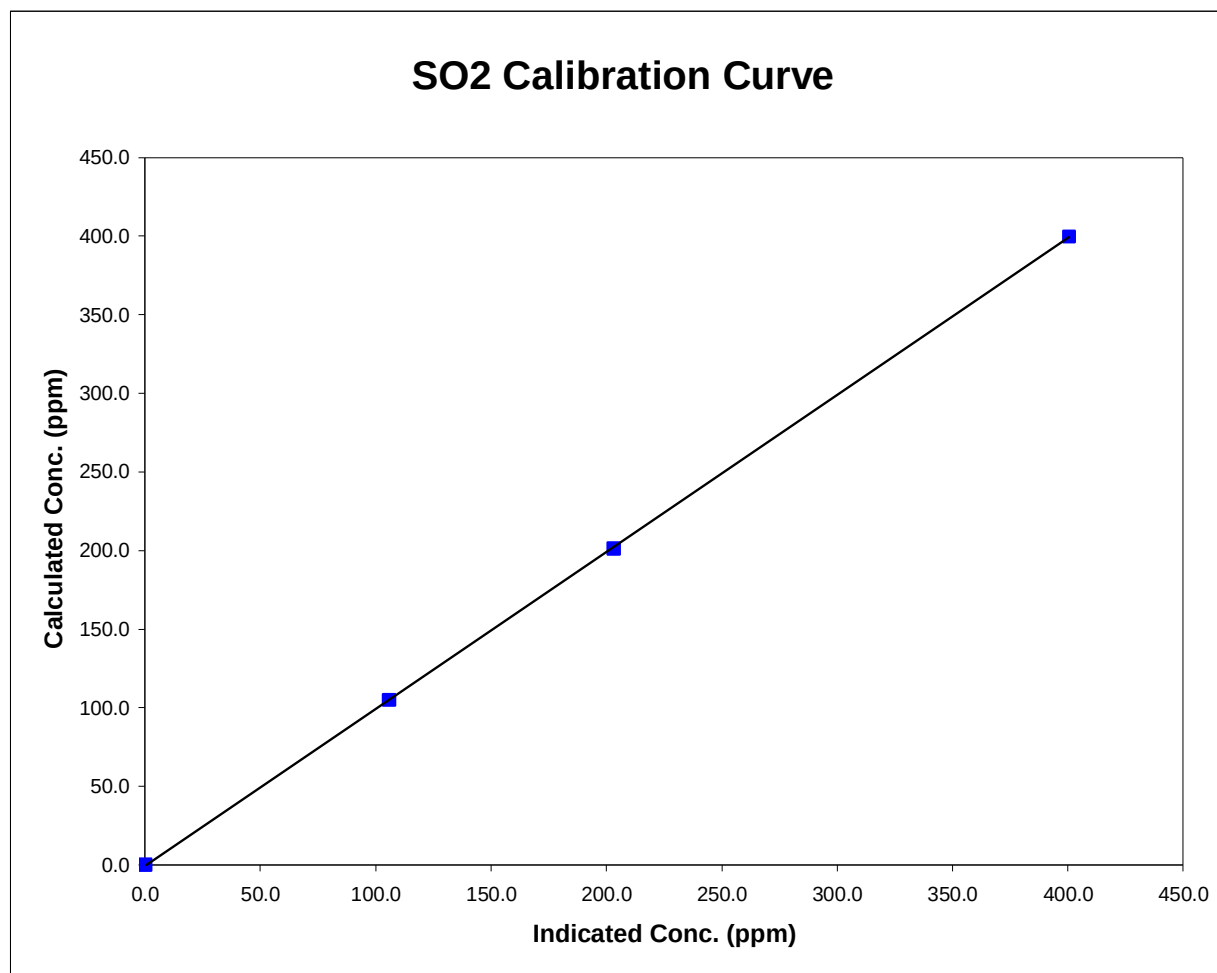
Air Monitoring Network PASZA

Station Information

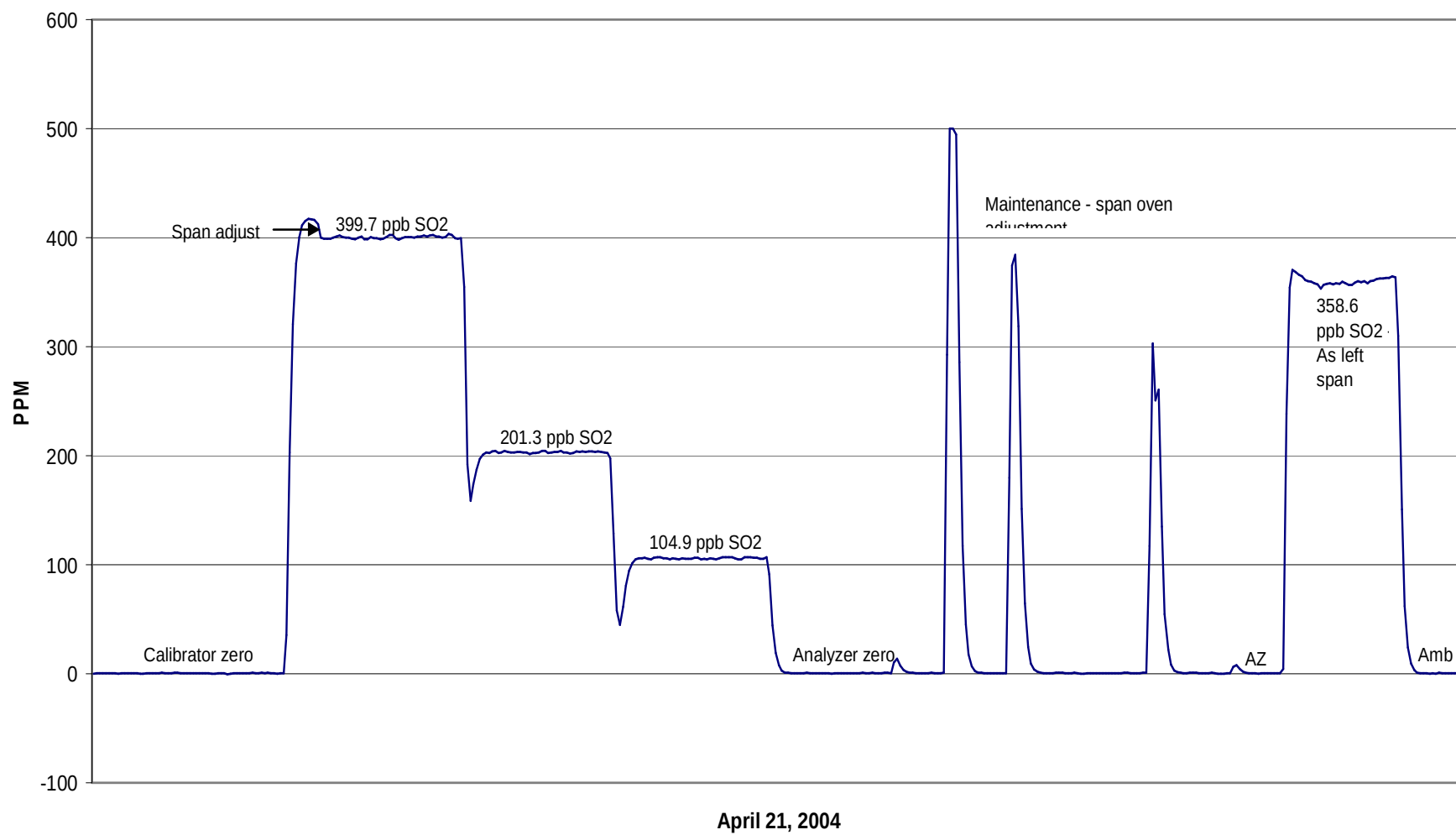
Calibration Date	April 21, 2004	Previous Calibration	March 17, 2004
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	13:50	End Time (MST)	17:30
Analyzer make/model	TEI Model 43A	Analyzer serial #	NA

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	N/A	Correlation Coefficient	0.999986
399.7	400.5	0.9980		
201.3	203.2	0.9907		
104.9	105.8	0.9915	Slope	0.998651
			Intercept	-0.718662



SO₂ Calibration



Calibration Report

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



Station Information

Calibration Date	<u>April 21, 2004</u>	Previous Calibration	<u>March 18 2004</u>
Station Number	<u>1</u>	Station Location	<u>Muskoseepi Park</u>

Reason: ☒ Routine ☐ Installation ☐ Removal Other: _____

Start Time (MST)	<u>8:10</u>	End Time (MST)	<u>14:00</u>
Barometric Pressure	<u>0.919</u> mmHg	Station Temperature	<u>10.1</u> Deg C
Calibrator	<u>Envionics 6100</u>	Serial Number	<u>3016</u>
NO Cal Gas Conc	<u>50.3</u> ppm	Cal Gas Expiry Date	<u>19-Jan-06</u>
NOx Cal Gas Conc	<u>50.5</u> ppm	Cal Gas Serial #	<u>ALM025793</u>

DACS Information

DACS make	<u>FOCUS AP1000</u>	DACS serial No.	<u>N/A</u>
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Parameter	NO2	NOx	NO
Before			
DACS slope	0.050000	0.050000	0.050000
DACS offset	0.000000	0.000000	0.000000
After			
DACS slope	0.050000	0.050000	0.050000
DACS offset	0.000000	0.000000	0.000000
Before			
Data Slope	0.996547	0.999211	0.998173
Data Offset	-0.441961	-3.738666	-2.704480
After			
Data Slope	0.997415	0.996216	0.993884
Data Offset	0.258493	-0.579985	-0.409378
Channel #	8	6	7
Voltage Range	0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model TEI Model 42 Analyzer serial # 42-28486-231

Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO background	6.8	ppb	9.8	mV
NOx background	7.0	ppb	10.1	mV
NO coefficient	2.203		2.481	
NOx coefficient	0.995		0.998	
Chamber Temp	50.0	Deg C	50.0	Deg C
Cooler Temp	-3.4	Deg C	-3.4	Deg C
Converter Temp	341.0	Deg C	341.0	Deg C
Perm Temp	NA	Deg C	NA	Deg C
Pressure	22.9	inches Hg	22.9	inches Hg
Sample Flow	NA	ccm	NA	ccm

Notes: Analyzer was zero and span adjusted.

Calibration Report

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



Station Information

Calibration Date: April 21, 2004

Station Location:

Muskoseepi Park

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor
zero	4993	0.00	0.0	0.0	0.0	-0.3	-0.4	0.0	N/A	N/A
1	4993	39.98	401.2	399.6	1.6	402.4	401.9	0.3	0.9969	0.9941
2	4993	19.98	201.3	200.5	0.8	203.5	202.8	0.6	0.9889	0.9886
3	4993	9.98	100.7	100.3	0.4	102.1	102.0	-0.2	0.9865	0.9836
AFZ	4993	0.00	0.0	0.0	0.0	-0.3	-0.4	0.0	0.0000	0.0000
AFS	4993	29.97	301.3	300.1	1.2	270.4	270.9	-0.6	1.1142	1.1077
Average Correction Factor									0.9908	0.9888

As Found Concentrations: NO_x= 267.0 NO= 268.6 As Found Percent Change NO_x= -11.4% NO= -10.5%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	407.6	404.0	3.7	409.8	406.9	0.0	N/A	N/A	N/A	N/A
300	407.6	126.6	284.4	413.1	127.8	285.0	0.9867	0.9907	0.9978	100.2%
200	407.6	221.7	190.9	414.8	223.5	191.2	0.9828	0.9921	0.9987	100.1%
100	407.6	313.1	96.7	411.9	315.5	96.2	0.9896	0.9926	1.0049	99.5%
Average Correction Factor							0.9864	0.9918	1.0004	100.0%

A/C Data

	Previous calibration				Current calibration			
Parameter	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	NA	NA	NA	ppb	2.0	0.3	1.6	ppb
Auto span	NA	NA	NA	ppb	359.5	353.1	5.6	ppb

Calibration Performed By: Kelly Baragar

Calibration Summary

 Parameter NO₂

 Air Monitoring Network PASZA

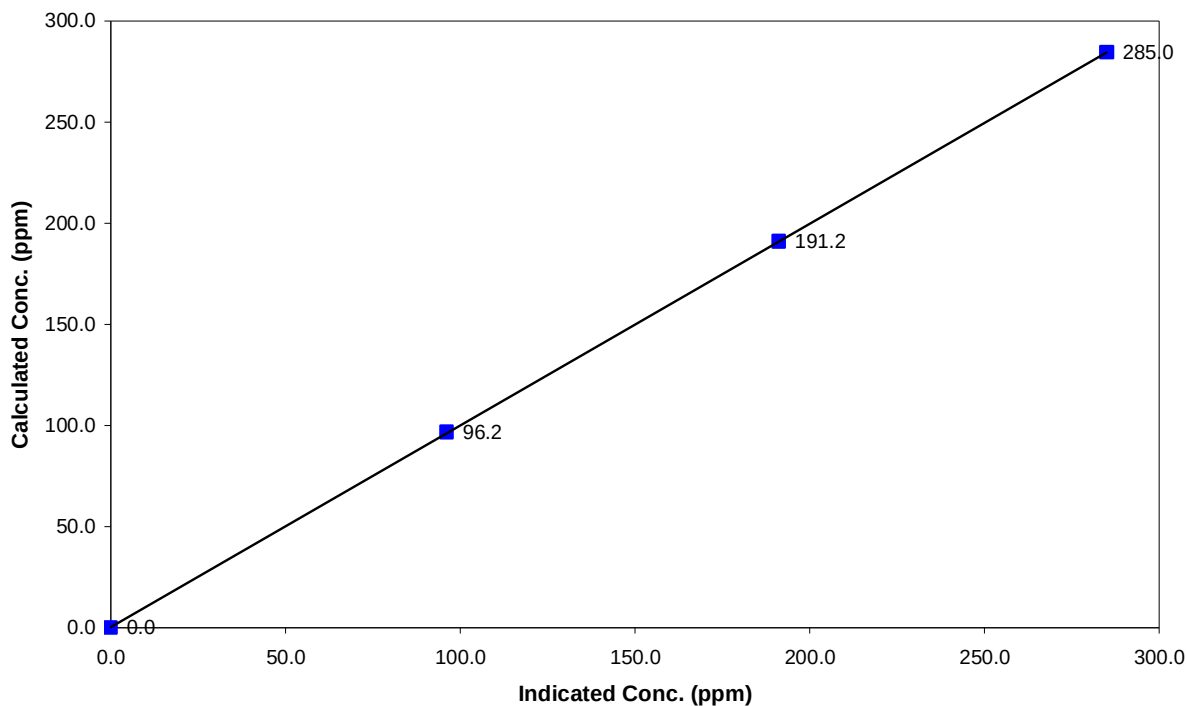

Station Information

Calibration Date	April 21, 2004	Previous Calibration	March 18 2004
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	8:10	End Time (MST)	14:00
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	0.0000	Correlation Coefficient	0.999993
284.4	285.0	0.9978		
190.9	191.2	0.9987		
96.7	96.2	1.0049	Slope	0.997415
			Intercept	0.258493

NO₂ Calibration Curve



Calibration Summary

Parameter NO_x

Air Monitoring Network PASZA



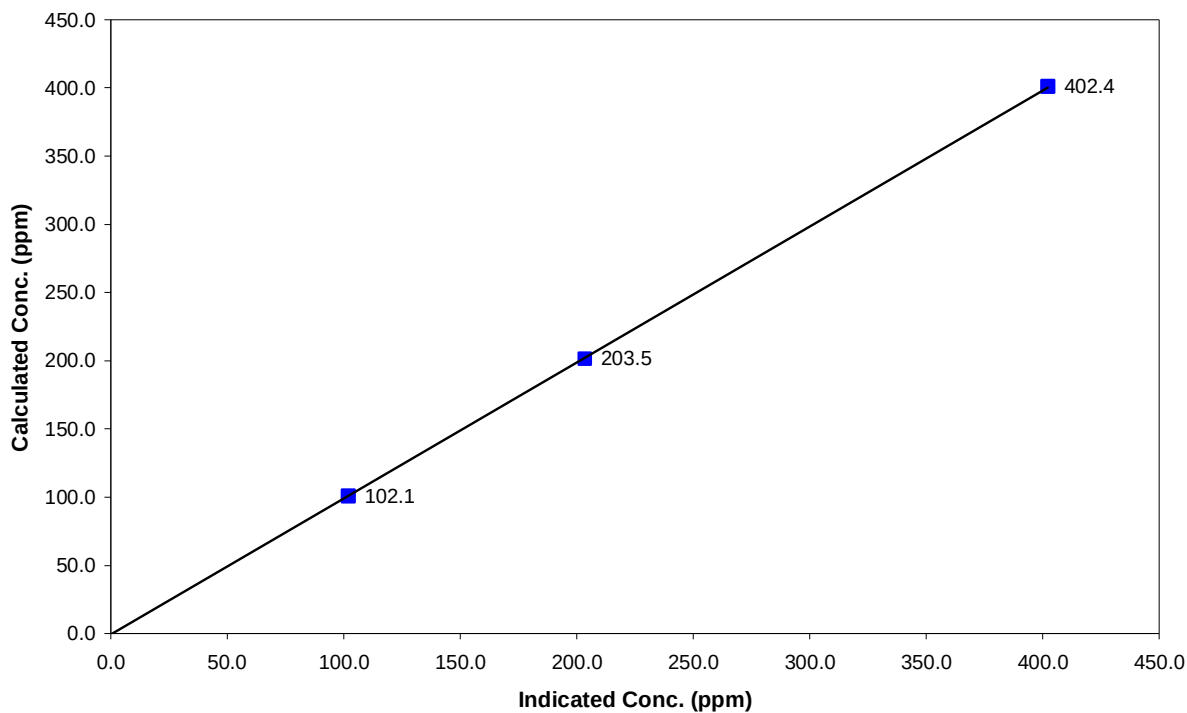
Station Information

Calibration Date	April 21, 2004	Previous Calibration	March 18 2004
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	8:10	End Time (MST)	14:00
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	0.0000	Correlation Coefficient	0.999973
401.2	402.4	0.9969		
201.3	203.5	0.9889		
100.7	102.1	0.9865	Slope	0.996216
			Intercept	-0.579985

NOx Calibration Curve



Calibration Summary

 Parameter NO

 Air Monitoring Network PASZA

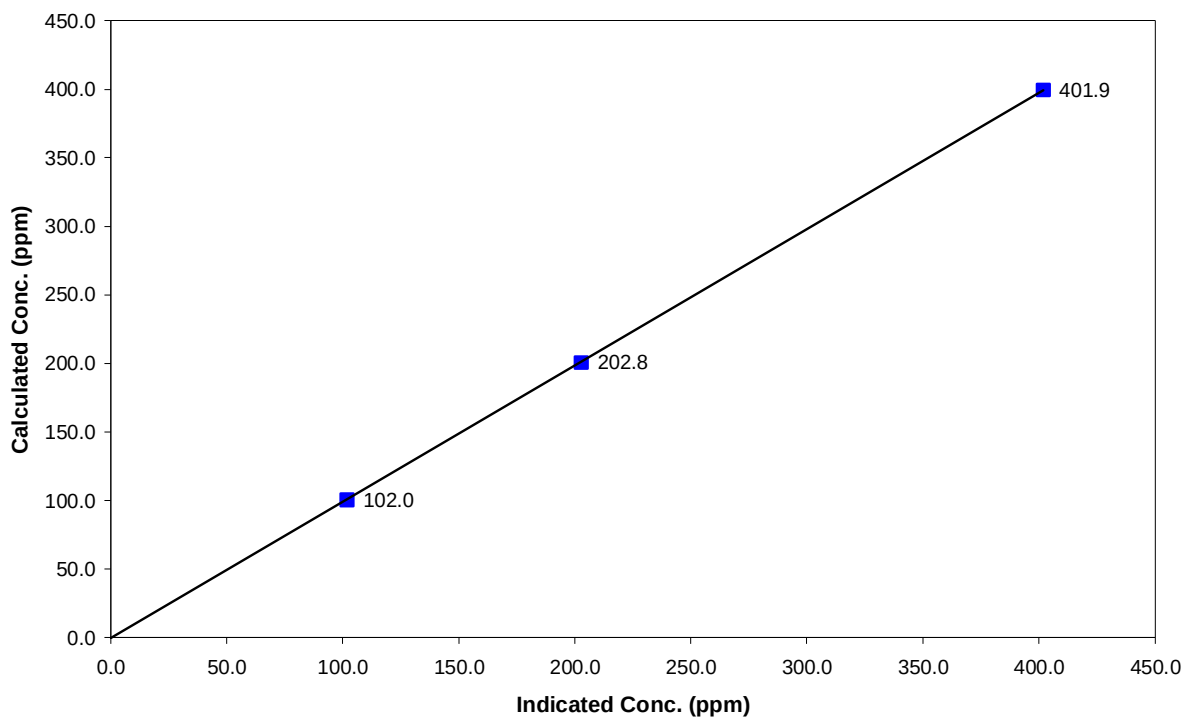

Station Information

Calibration Date	April 21, 2004	Previous Calibration	March 18 2004
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	8:10	End Time (MST)	14:00
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

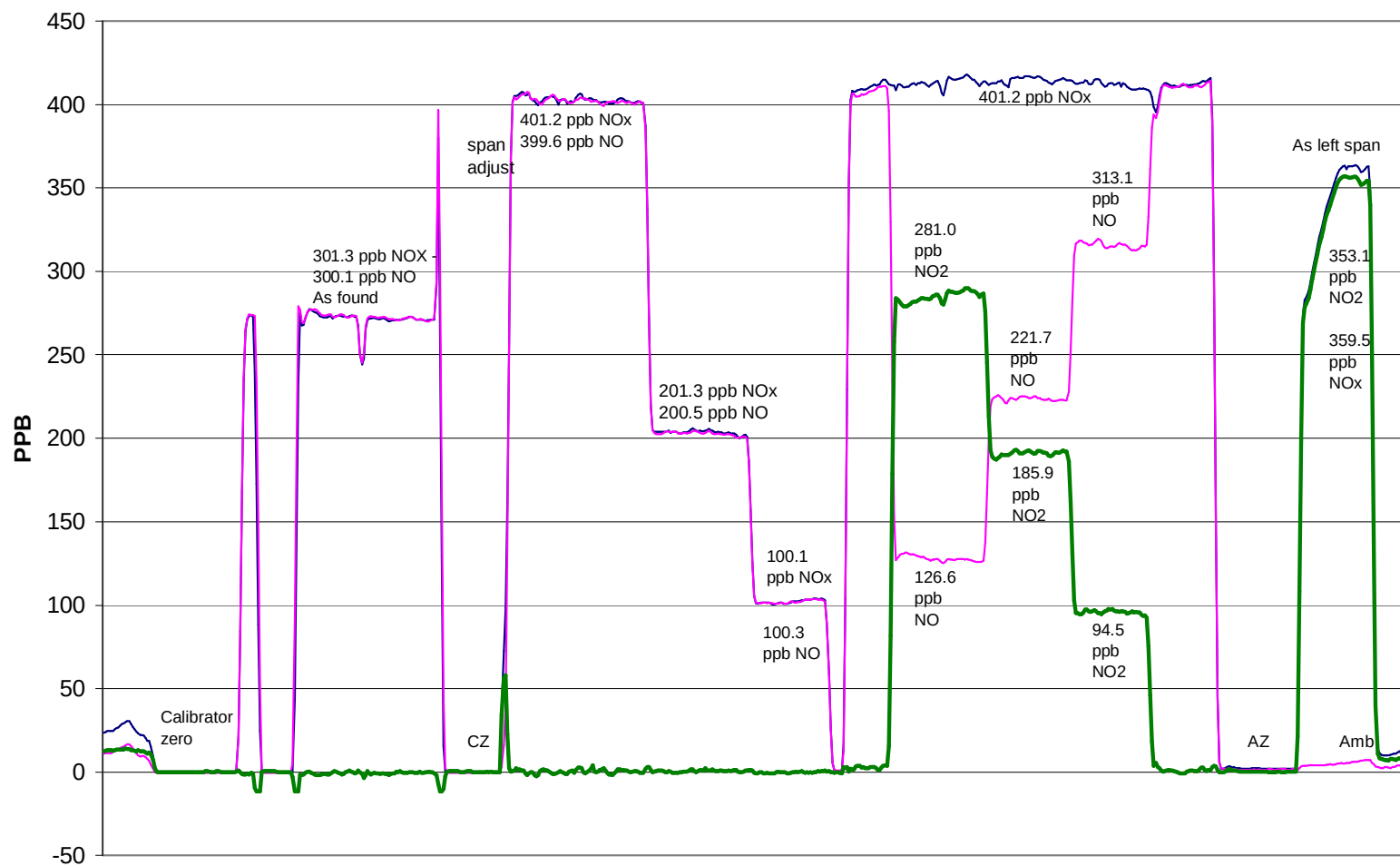
Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.4	N/A	Correlation Coefficient	0.999980
399.6	401.9	0.9941		
200.5	202.8	0.9886		
100.3	102.0	0.9836	Slope	0.993884
			Intercept	-0.409378

NO Calibration Curve



NOx Calibration



April 21, 2004

Calibration Report

Parameter 03Air Monitoring Network PASZA

Station Information

Calibration Date	April 21, 2004	Previous Calibration	March 17, 2004
Station Number	1	Station Location	Muskoseepi Park
Reason:	☒ Routine	☐ Install	☐ Removal
			Other:

Start Time (MST)	14:15	End Time (MST)	17:15
Barometric Pressure	0.919 mb	Station Temperature	16.5 Deg C
Calibrator	EnviroNics 6100	Serial Number	3016
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA

DACS make	Focus AP1000	DACS serial No.	NA
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	0.993477	Calculated slope	0.992411
Calculated intercept	-0.219825	Calculated intercept	-0.046181

Analyzer make	API Model 400	Analyzer serial #	383
---------------	---------------	-------------------	-----

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
offset	-0.6	ppb	-0.6	ppb
slope	1.137		1.137	
Lamp measure	3394	mV	3365	mV
Lamp Reference	3395	mV	3366	mV
Pressure	27.4	inches Hg	27.4	inches Hg
Sample Flow	675	ccm	675	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	-0.2	N/A
4995	0.00	400.0	403.0	0.9927
4995	0.00	200.0	201.8	0.9912
4995	0.00	100.0	101.0	0.9901
4995	0.00	0.0	-0.2	As found zero
4995	0.00	400.0	405.0	As found span
Average Correction Factor				0.9913

Calculated value of As Found Response: 402.3 ppm Percent Change of As Found: 0.6%

	before calibration		after calibration	
Auto zero	1.1	ppb	1.0	ppb
Auto span	304.4	ppb	305.0	ppb

Notes: No adjustments or maintenance performed.Calibration Performed By: Kelly Baragar

Calibration Summary

FOCUS INTEC
Air Quality Monitoring

Parameter O3
Air Monitoring Network PASZA

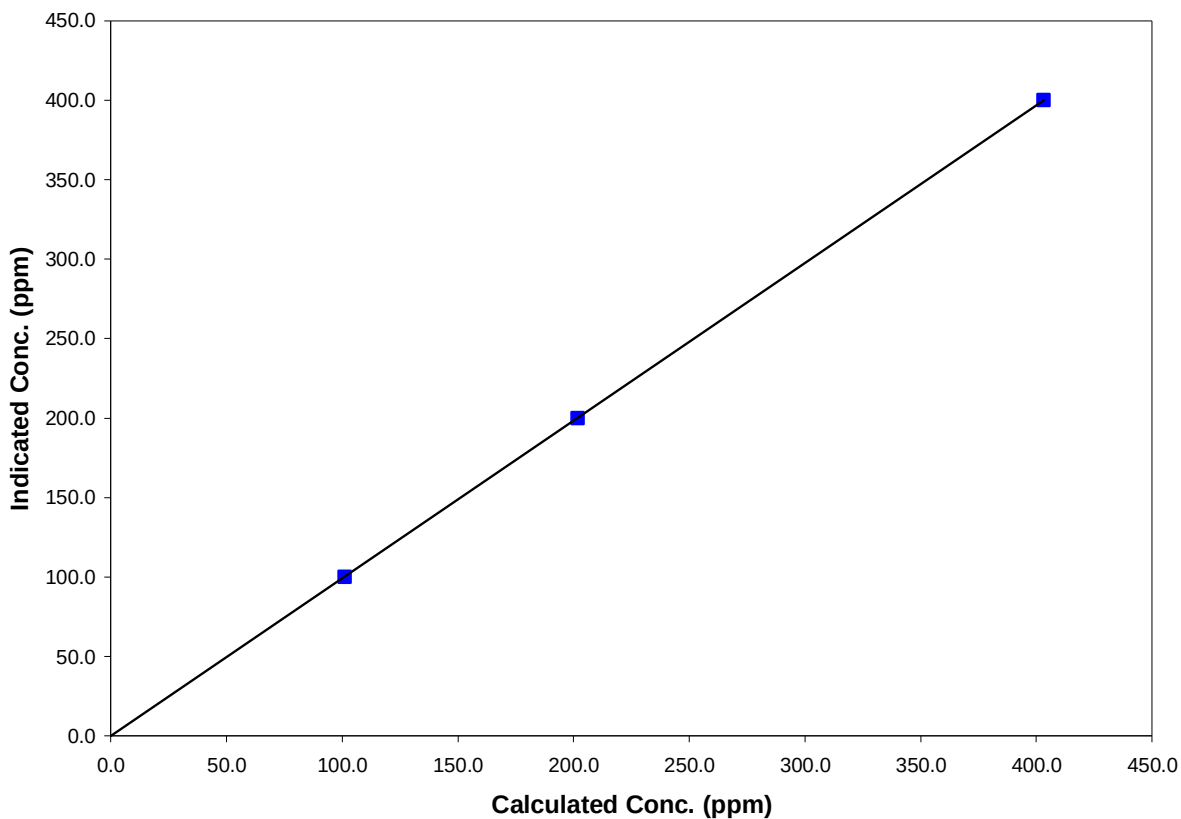
Station Information

Calibration Date	April 21, 2004	Previous Calibration	March 17, 2004
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	14:15	End Time (MST)	17:15
Analyzer make/model	API Model 400	Analyzer serial #	383

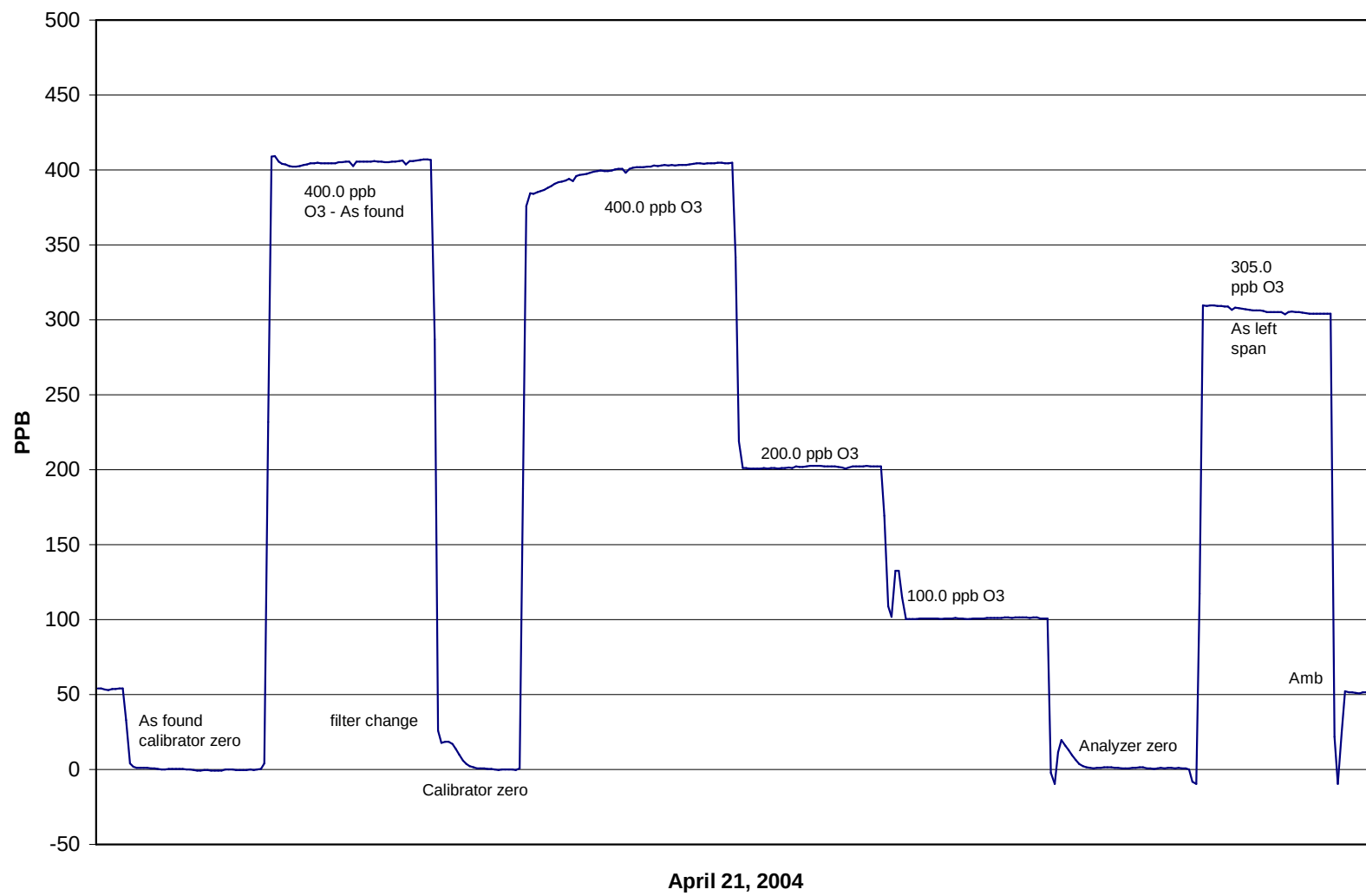
Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.2	NA	Correlation Coefficient	0.999998
400.0	403.0	0.9927		
200.0	201.8	0.9912		
100.0	101.0	0.9901	Slope	0.992411
			Intercept	-0.046181

O3 Calibration Curve



O3 Calibration



Calibration Report

Parameter COAir Monitoring Network PASZA

Station Information

Calibration Date	April 21, 2004	Previous Calibration	March 17, 2004
Station Number	1	Station Location	Muskoseepi Park
Reason:	☒ Routine	☐ Install	☐ Removal

Start Time (MST)	17:15	End Time (MST)	20:55
Barometric Pressure	0.917 mb	Station Temperature	12.5 Deg C
Calibrator	Envionics 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	1.016773	Calculated slope	1.004163
Calculated intercept	-0.241679	Calculated intercept	-0.107132

Analyzer make TEI Model 48 Analyzer serial # ACM-13989-143

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
CO span setting	622		623	
CO zero setting	605		595	
Sample pressure	667	mm Hg	702	mm Hg

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	0.000	0.207	N/A
4993	39.97	23.825	23.884	0.9975
4993	19.96	11.945	11.945	1.0000
4993	9.97	5.978	5.966	1.0021
4993	0.00	0.000	1.341	As Found Zero
4993	29.94	17.882	19.863	As Found Span
Average Correction Factor				0.9999

Calculated value of As Found Response: 18.591 ppm Percent Change of As Found: -4.0%

	before calibration		after calibration	
Auto zero	0.209	ppm	0.111	ppm
Auto span	30.145	ppm	29.666	ppm

Notes: Post as found capture bench was dismantled and cleaned. No apparent build-up of contamination noted. Thermistor wire is fragile and was covered with heat shrink to allow further protection. Analyzer was zero and span adjusted.

Calibration Performed By: Kelly Baragar

Calibration Summary

FOCUS INTEC
Air Quality Monitoring

Parameter CO
Air Monitoring Network PASZA

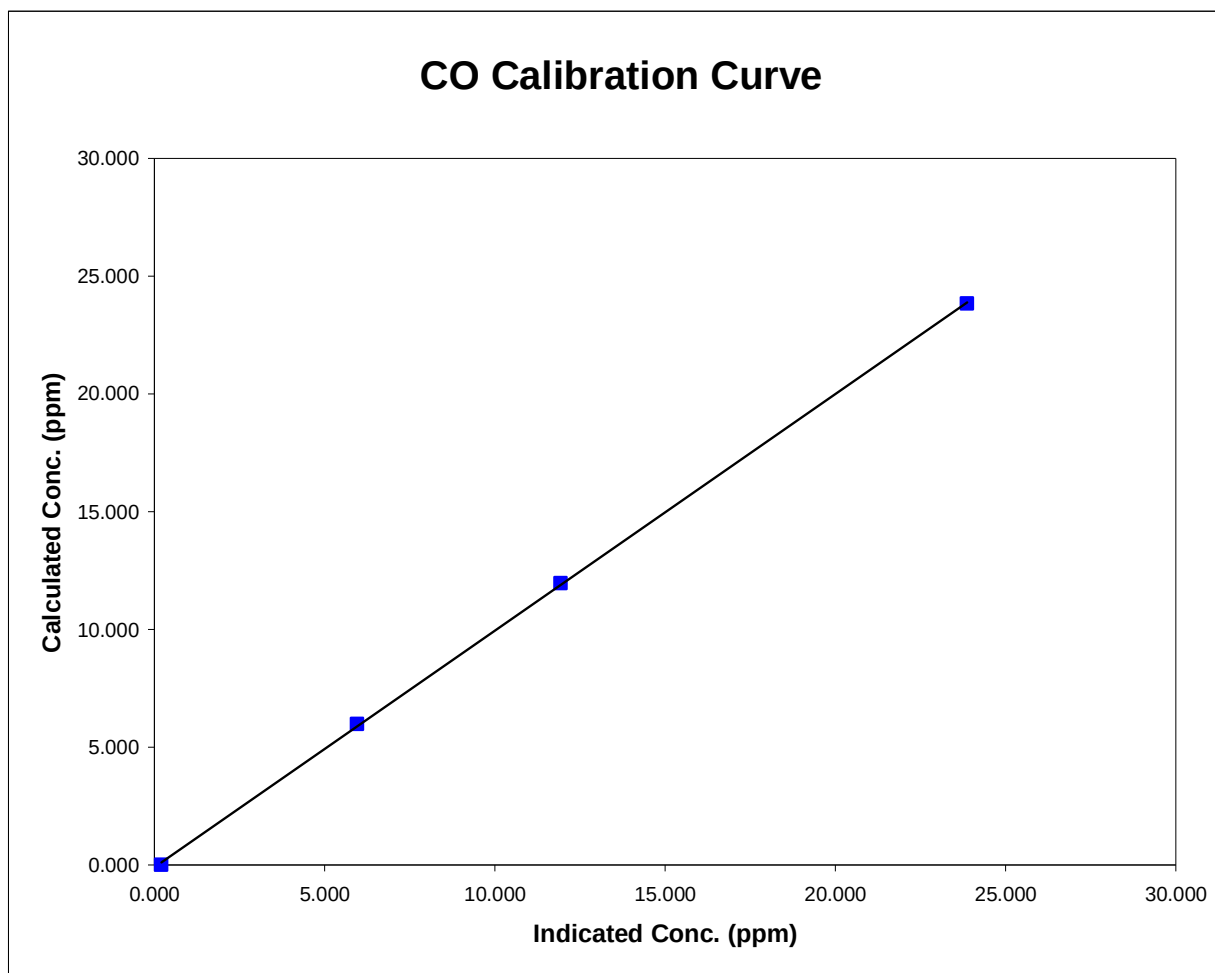
Station Information

Calibration Date	April 21, 2004	Previous Calibration	March 17, 2004
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	17:15	End Time (MST)	20:55
Analyzer make/model	TEI Model 48	Analyzer serial #	ACM-13989-143

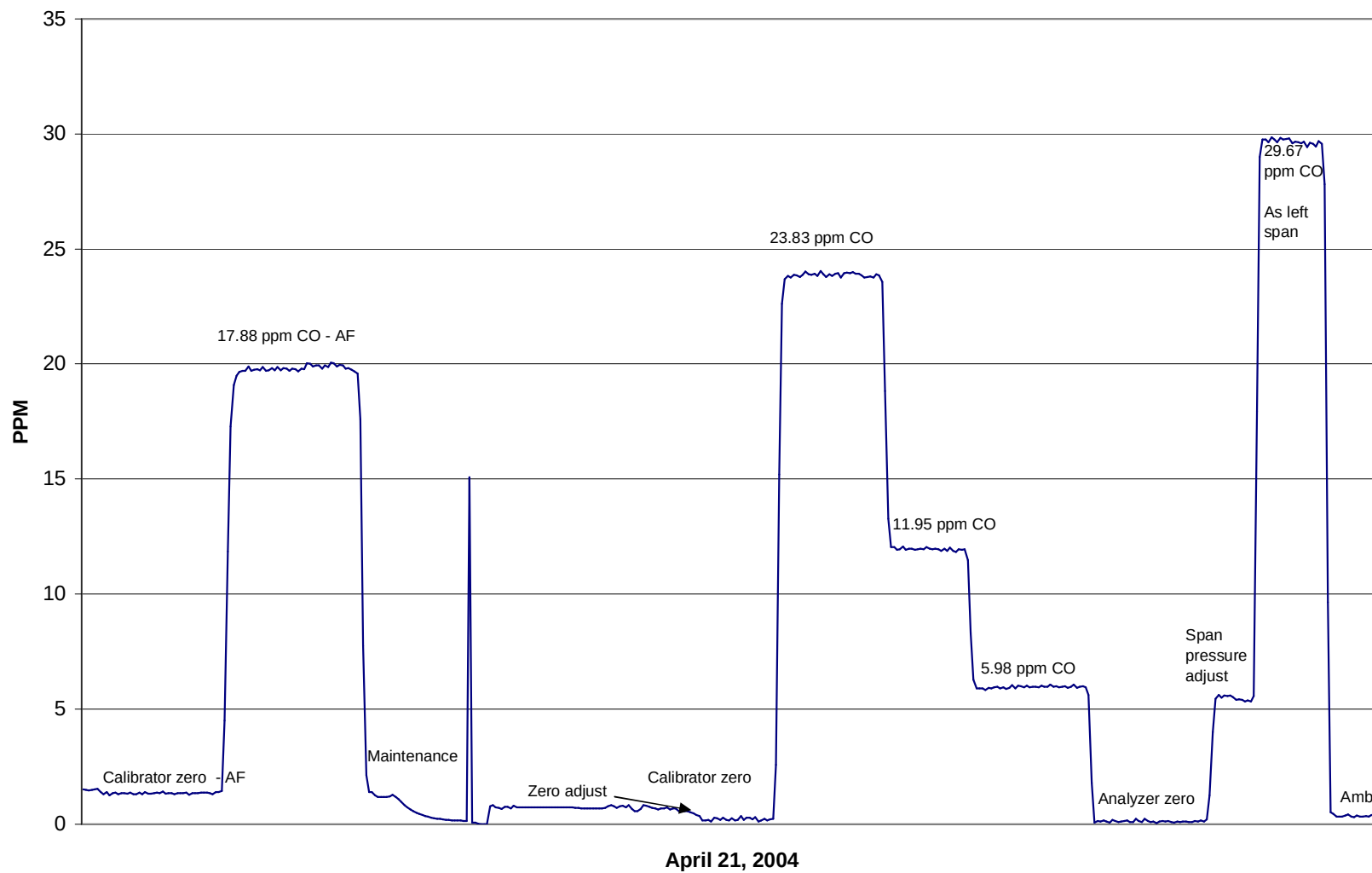
Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.207	N/A	Correlation Coefficient	0.999919
23.825	23.884	0.9975		
11.945	11.945	1.0000		
5.978	5.966	1.0021	Slope	1.004163
			Intercept	-0.107132

CO Calibration Curve



CO Calibration



Calibration Report

Parameter THCAir Monitoring Network PASZA

Station Information

Calibration Date	April 22, 2004	Previous Calibration	March 17, 2004
Station Number	1	Station Location	Muskoseepi Park
Reason:	☒ Routine	☐ Install	☐ Removal
			Other:
Start Time (MST)	7:35	End Time (MST)	10:50
Barometric Pressure	0.920 mb	Station Temperature	11.0 Deg C
Calibrator	Envionics 6100	Serial Number	3016
Cal Gas Concentration	700 ppm CH4/ 299 ppm C3H8	Cal Gas Expiry Date	NA
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	0.991117	Calculated slope	0.993235
Calculated intercept	0.020520	Calculated intercept	0.037910
Analyzer make	TEI Model 51C-LT	Analyzer serial #	NA

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
THC slope	NA		NA	
THC bkg	NA		NA	

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	0.000	0.019	N/A
4993	64.90	19.533	19.682	0.9924
4993	35.00	10.596	10.533	1.0060
4993	9.97	3.034	3.002	1.0105
2994	0.00	0.000	0.187	As Found Zero
2994	39.95	20.044	20.643	As Found Span
Average Correction Factor				1.0030

Calculated value of As Found Response: 20.294 ppm Percent Change of As Found: -1.2%

	before calibration		after calibration	
Auto zero	0.050	ppm	0.153	ppm
Auto span	20.798	ppm	22.563	ppm

Notes: Analyzer zero and span adjustments performed. No other maintenance necessary.Calibration Performed By: Kelly Baragar

Calibration Summary

FOCUS INTEC
Air Quality Monitoring

Parameter THC

Air Monitoring Network PASZA

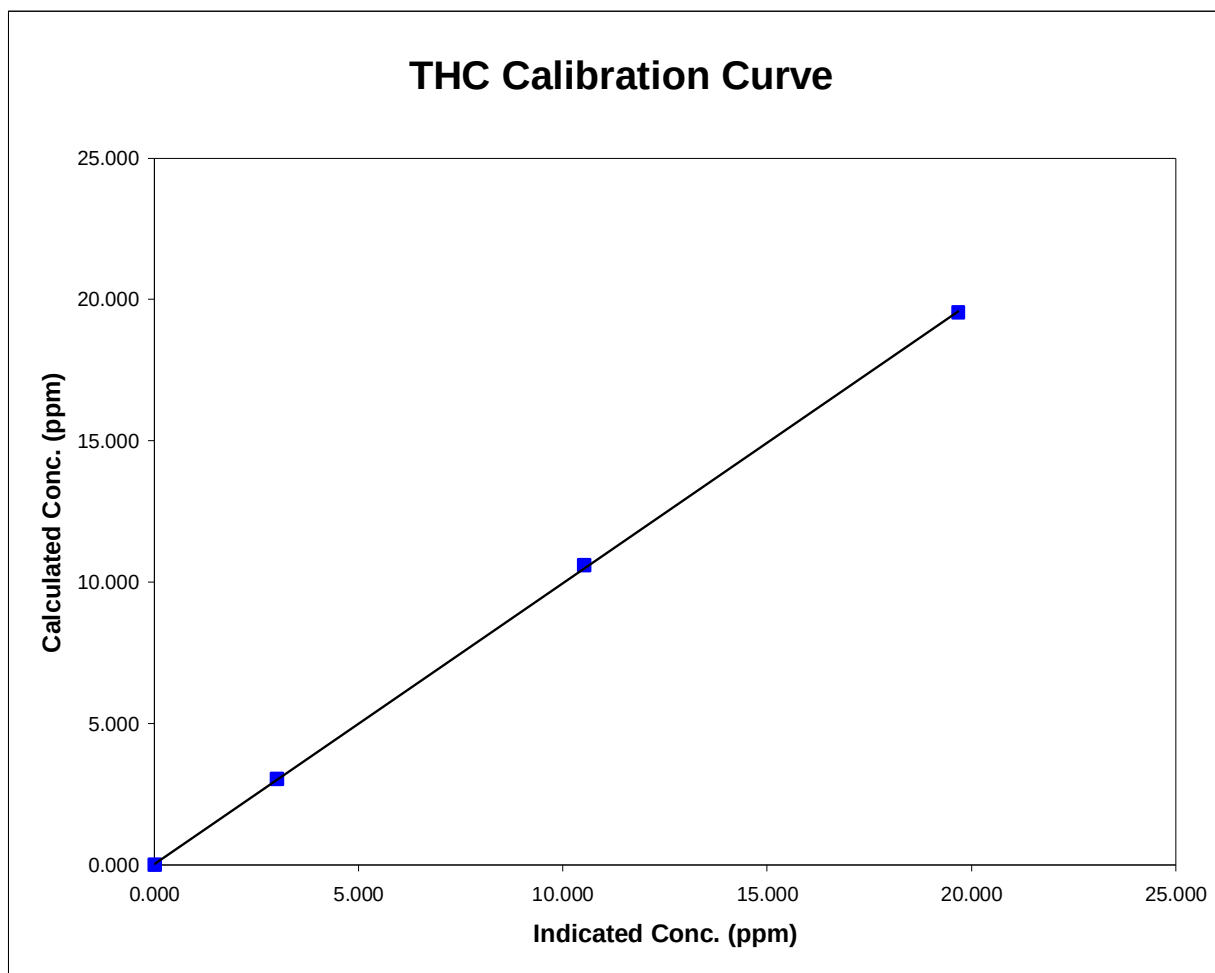
Station Information

Calibration Date	April 22, 2004	Previous Calibration	March 17, 2004
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	7:35	End Time (MST)	10:50
Analyzer make/model	TEI Model 51C-LT	Analyzer serial #	NA

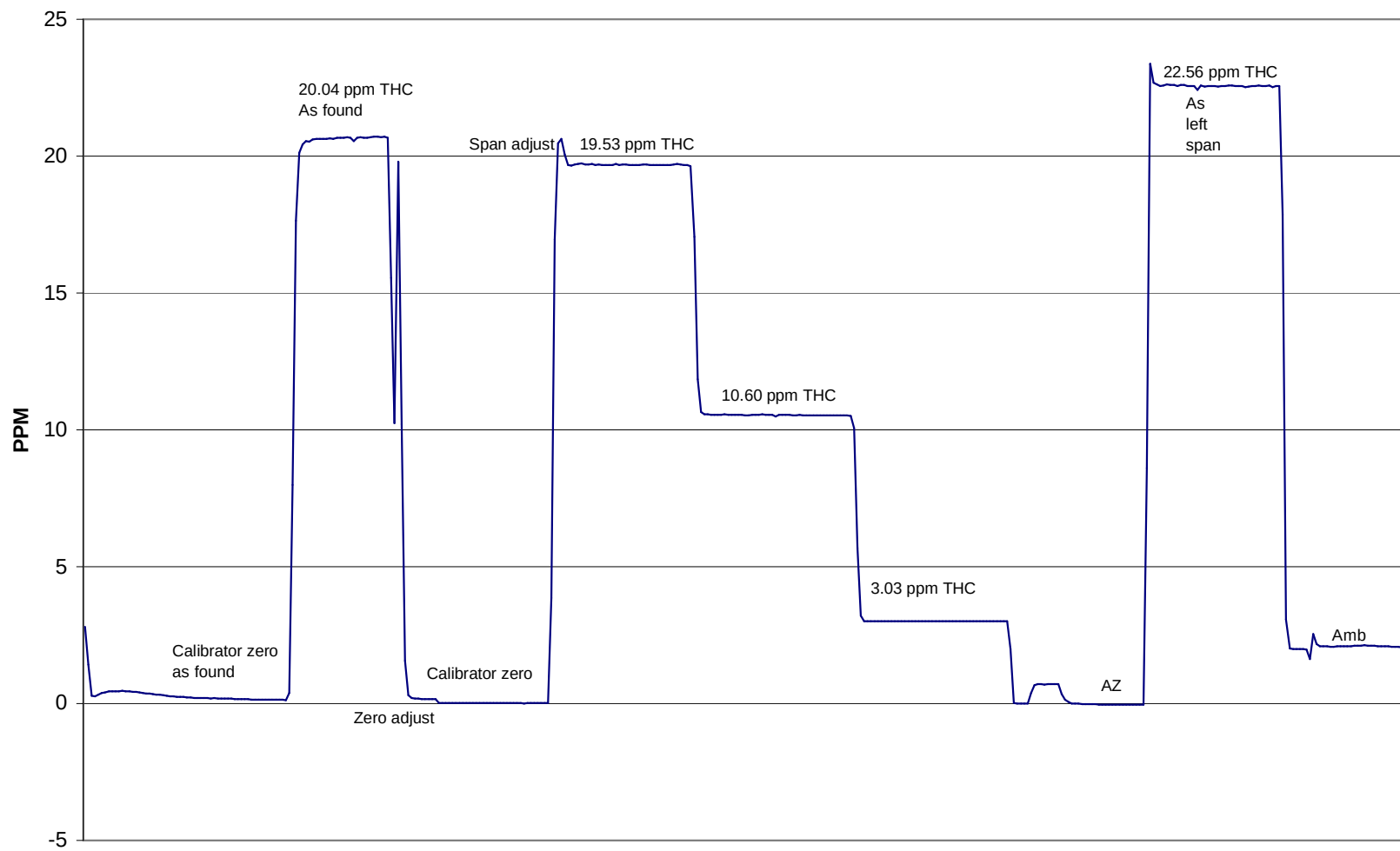
Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.019	N/A	Correlation Coefficient	0.999931
19.533	19.682	0.9924		
10.596	10.533	1.0060		
3.034	3.002	1.0105	Slope	0.993235
			Intercept	0.037910

THC Calibration Curve



THC Calibration



April 22, 2004

Calibration Report

Parameter TRSAir Monitoring Network PASZA

Station Information

Calibration Date	April 21, 2004	Previous Calibration	March 18 2004
Station Number	1	Station Location	Muskoseepi Park
Reason:	☒ Routine	☐ Install	☐ Removal
			☐ Other:
Start Time (MST)	15:40	End Time (MST)	18:50
Barometric Pressure	27.5 inches Hg	Station Temperature	21.0 Deg C
Calibrator	VICI Metronics	Serial Number	NA
Perm-tube Conc	225 ng/min	Perm-tube Expiry Date	12/10/2005
Correction factor	0.931623	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	0.996267	Calculated slope	0.992667
Calculated intercept	-0.420255	Calculated intercept	-0.485757
Analyzer make	TEI Model 43C	Analyzer serial #	31990000000491

	before		after	
Concentration range	0 - 500	ppb	0-100	ppb
TRS bkg	18.8		18.8	
TRS slope	1.390		1.390	
UV Lamp	818	V	816	V

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	2803.0	0.0	1.0	N/A
2210	2058.9	78.6	79.9	0.9838
4305	4010.6	40.3	40.8	0.9882
12800	11924.8	13.6	13.7	0.9871
zero	2054.2	0.0	1.0	As Found Zero
2205	2054.2	78.8	79.0	As Found Span
Average Correction Factor				0.9864

Calculated value of As Found Response: 77.350 ppm Percent Change of As Found: 1.8%

	before calibration		after calibration	
Auto zero	0.4	ppm	1.2	ppm
Auto span	90.5	ppm	88.8	ppm

Notes: Analyzer operation OK. No adjustments or maintenance performed.Calibration Performed By: Kelly Baragar

Calibration Summary

FOCUS INTEC
Air Quality Monitoring

Parameter TRS

Air Monitoring Network PASZA

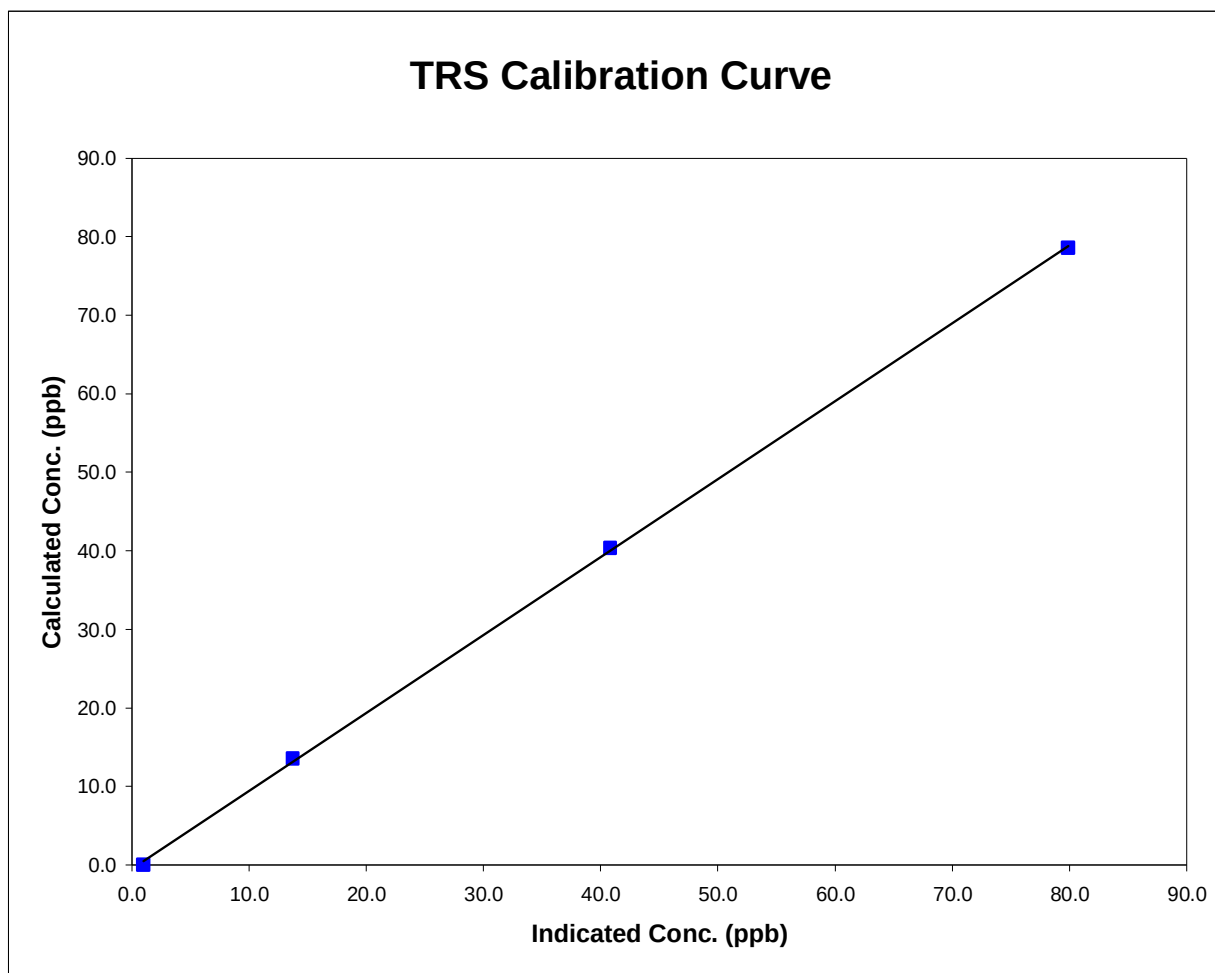
Station Information

Calibration Date	April 21, 2004	Previous Calibration	March 18 2004
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	15:40	End Time (MST)	18:50
Analyzer make/model	TEI Model 43C	Analyzer serial #	31990000000491

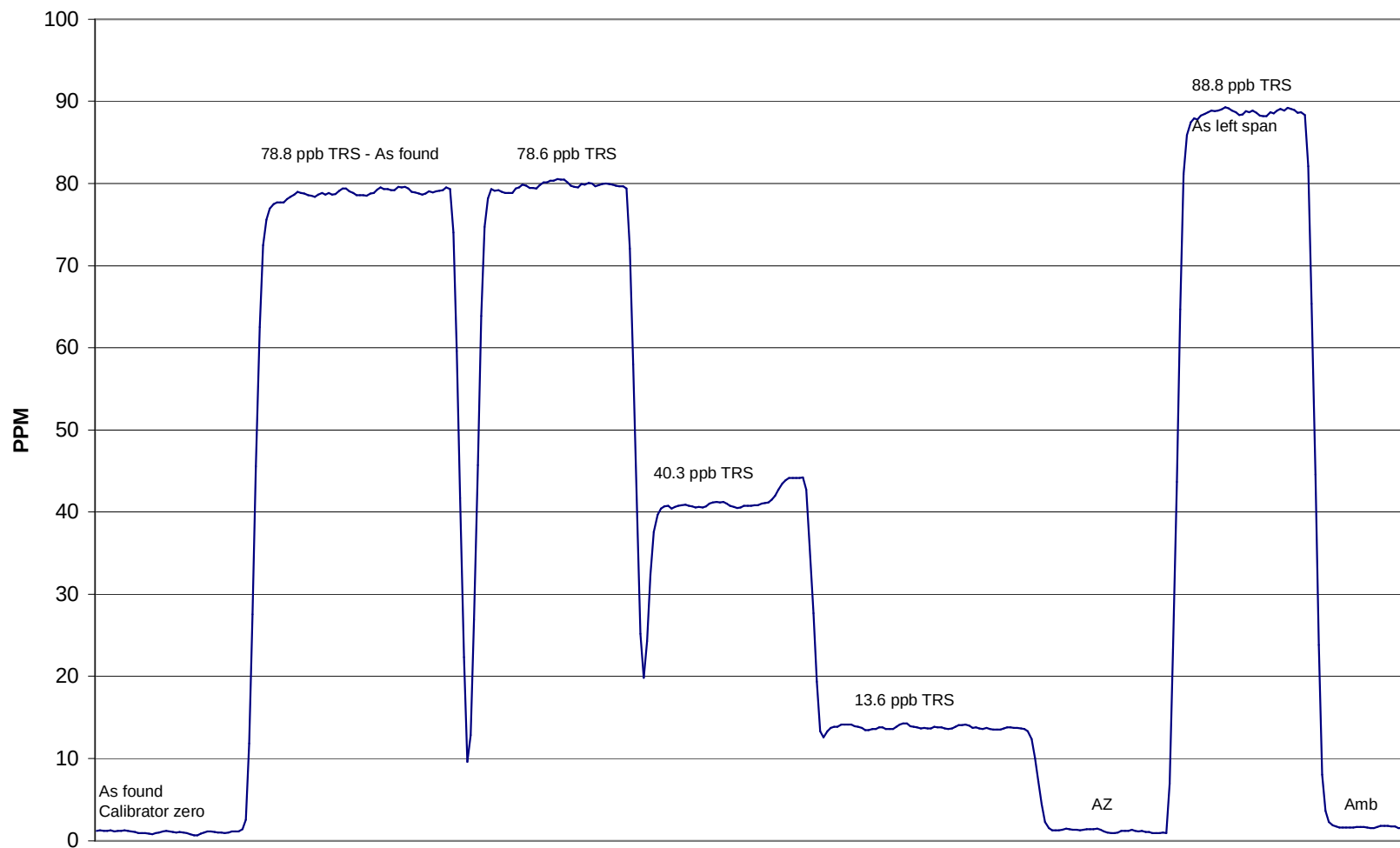
Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.0	N/A		
78.6	79.9	0.9838	Correlation Coefficient	0.999847
40.3	40.8	0.9882		
13.6	13.7	0.9871	Slope	0.992667
			Intercept	-0.485757

TRS Calibration Curve



TRS Calibration



April 21, 2004

Calibration Report

Parameter PM2.5Air Monitoring Network PASZA

Station Information

Calibration Date	April 22, 2004	Previous Calibration	March 17, 2004
Station Number	1	Station Location	Henry Pirker
Reason:	☒ Routine	☐ Install	☐ Removal
		☐ Other:	
Start Time (MST)	14:10	End Time (MST)	14:30
Barometric Pressure	0.920 ATM	Station Temperature	12.7 Deg C
Flow Calibrator	BIOS DCLite	Serial Number	7061
DACS make	Focus AP1000	DACS serial No.	N/A
DACS voltage range	0 - 10 Volts	DACS channel #	10
	<u>Before</u>		<u>After</u>
DACS slope	0.500000	DACS slope	0.500000
DACS intercept	0.000000	DACS intercept	0.000000

Analyzer Information

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

	before		after	
Main Flow Set Point	3.0	SLPM	3.0	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	48	%	48	%
Ko Factor	nc		nc	
Temperature	12.7	Deg C	12.7	Deg C
Pressure		ATM		ATM

Calibration Data

Parameter	Set Point	Indicated Reading	Tolerance	New Reading
zero flow - main	0.0	0.03		0.03
zero flow - auxillary	0.0	0.03		0.03
flow recovery - main	45 - 60 Seconds	nc	45 - 60 Seconds	nc
flow recovery - aux	46 - 60 Seconds	nc	46 - 60 Seconds	nc
Temperature	measured	nc	+/- 1.0 Deg C	nc
Pressure	measured	nc	+/- 1.5% ΔATM	nc
Total Flow	16.67 SLPM	16.50		16.50
Main Flow	13.67 SLPM	13.55	+/- 1.0 SLPM	13.55
Auxillary Flow	3.0 SLPM	2.95	+/- 0.2 SLPM	2.95
Leak Check - main	0.00	0.02	<0.15 SLPM	0.02
Leak Check - aux	0.00	0.02	<0.15 SLPM	0.02
Ko Factor	measured	nc		nc

Notes: no adjustments madeCalibration Performed By: Kelly Baragar

Calibration Report



Parameter Wind Speed & Direction

Air Monitoring Network PASZA

Station Information

Calibration Date	April 22, 2004	Previous Calibration	NA
Station Number	1	Station Location	Muskoseepi Park
Reason:	☒ Routine	☐ Install	☐ Removal
		Other:	
Start Time (MST)	11:20	End Time (MST)	13:30
Barometric Pressure	0.920 mb	Ambient Temperature	12.5 Deg C

DACS Information

DACS make	Focus AP1000	DACS serial No.	NA
DACS voltage range	0 - 1 volt	DACS channel #	3 & 4

Sensor Information

Wind Direction Calibration Data

Sensor make/model	Met One Model 020C-1	Sensor serial #	C4209
Actual Value (Degrees)	Indicated Value (Degrees)	Correction factor (Cc/lc)	
0.0	1.2	N/A	
90.0	91.3	0.9858	
180.0	180.6	0.9967	
270.0	271.6	0.9941	
360.0	357.1	1.0081	

	<u>Before</u>		<u>After</u>
DACS slope	0.036000	DACS slope	0.036000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope	NA	Calculated slope	1.008504
Calculated intercept	NA	Calculated intercept	-1.848145

Wind Speed Calibration Data

Sensor make/model	Met One Model 010C-1	Sensor serial #	C3632
Actual Value (km/hr)	Indicated Value (km/hr)	Correction factor (Cc/lc)	
1.0	1.0	N/A	
20.2	20.4	0.9873	
39.4	39.8	0.9887	
77.7	78.8	0.9862	

	<u>Before</u>		<u>After</u>
DACS slope	0.900000	DACS slope	0.900000
DACS intercept	0.000000	DACS intercept	0.000000
Calculated slope	NA	Calculated slope	0.986384
Calculated intercept	NA	Calculated intercept	0.019208

Notes: Wind head as found declination noted at 16° West of magnetic North.
Wind head was re-installed at 21° West of magnetic North.

Calibration Performed By: Kelly Baragar

Calibration Summary

FOCUS INTEC
Air Quality Monitoring

Parameter Wind Speed

Air Monitoring Network PASZA

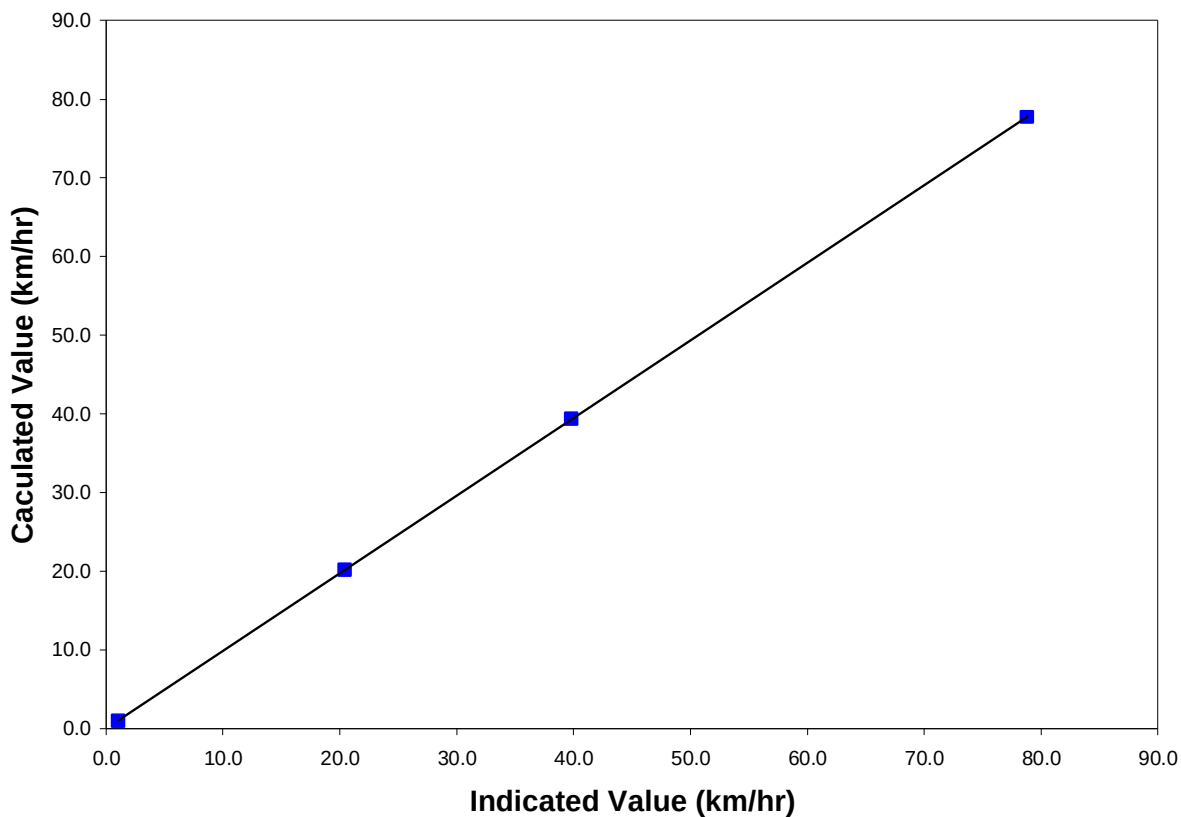
Station Information

Calibration Date	April 22, 2004	Previous Calibration	NA
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	11:20	End Time (MST)	13:30
Analyzer make/model	Met One Model 010C-1	Analyzer serial #	C3632

Calibration Data

Actual Value (km/hr)	Indicated Value (km/hr)	Correction factor (Cc/Ic)	Statistical Evaluation	
1.0	1.0	N/A		
77.7	78.8	0.9862	Correlation Coefficient	0.999998
39.4	39.8	0.9887		
20.2	20.4	0.9873		
			Slope	0.986384
			Intercept	0.019208

Wind Speed Calibration Curve



Calibration Summary

FOCUS INTEC
Air Quality Monitoring

Parameter Wind Direction

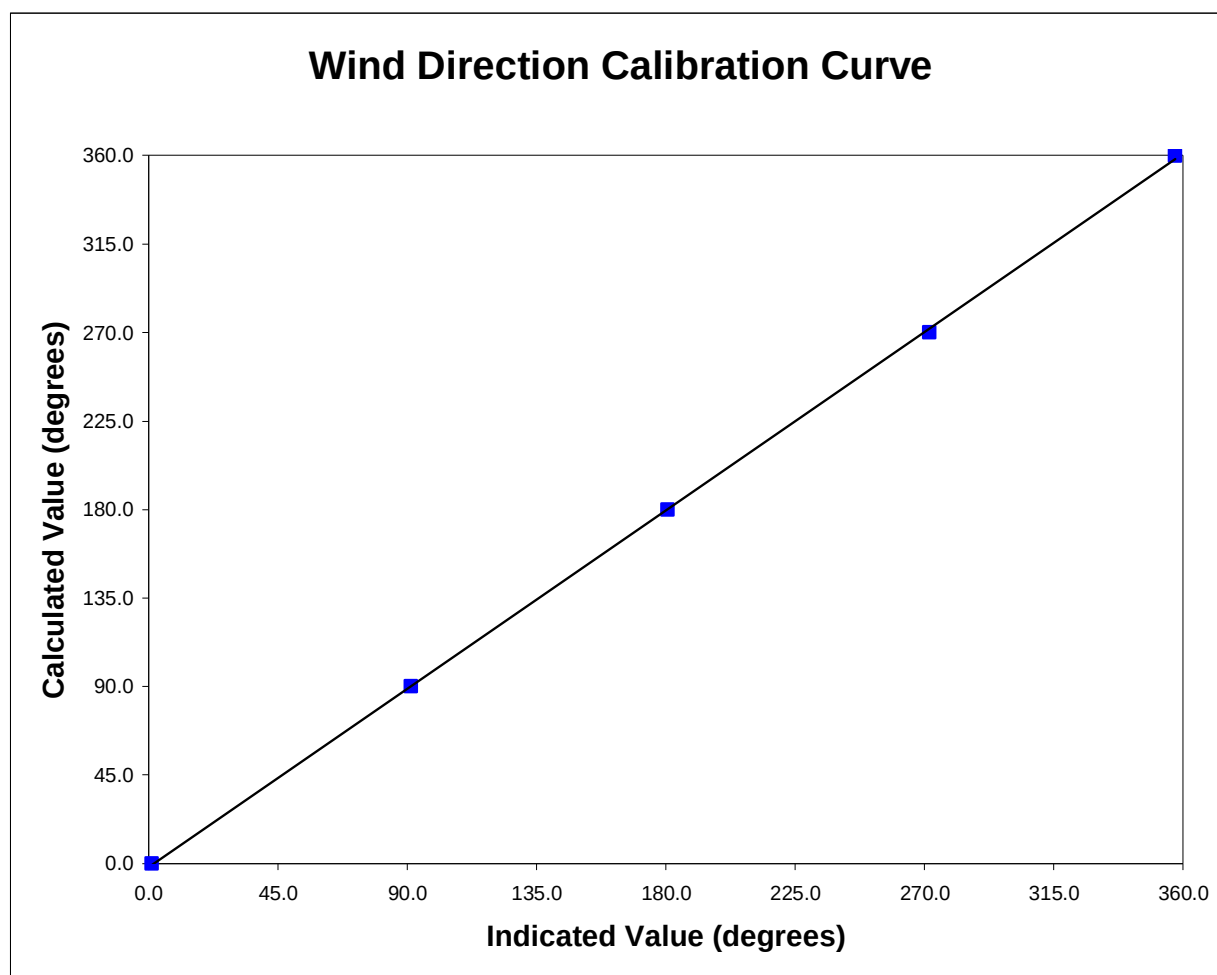
Air Monitoring Network PASZA

Station Information

Calibration Date	April 22, 2004	Previous Calibration	NA
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	11:20	End Time (MST)	13:30
Analyzer make/model	Met One Model 020C-1	Analyzer serial #	C4209

Calibration Data

Actual Value (Degrees)	Indicated Value (Degrees)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.2	N/A		
360.0	357.1	1.0081	Correlation Coefficient	0.999892
270.0	271.6	0.9941		
180.0	180.6	0.9967		
90.0	91.3	0.9858	Slope	1.008504
			Intercept	-1.848145



Wind Speed & Direction Calibration

