



Air Quality Monitoring Network for March 2008

Prepared by
FOCUS
 AMBIENT AIR MONITORING

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April 28, 2008

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RE: Peace Airshed Zone Association (PASZA) – March 2008 Ambient Air Report

Enclosed is the PASZA Ambient Monitoring Network Report for the month of **March 2008**.

Continuous Monitoring: Six (6) Stations including Henry Pirker (Grande Prairie), Evergreen Park, Smoky Heights, Beaverlodge, Spirit River (portable) and Valleyview.

Included in this report is a summary of the monthly continuous monitoring, detailed hourly average reports and multipoint calibration reports of all instruments. Operational summaries can be found on the "Monthly Summary" and "Continuous Monitoring" pages of the report.

The measured ambient air quality was within the Provincial and Federal objectives for the Henry Pirker, Evergreen Park, Beaverlodge, Spirit River and Valleyview stations. The Smoky Heights station had one exceedence of PM_{2.5} on March 19th above the Alberta Objective – **Alberta Environment Reference #199099**.

During the month of March the following events were noted:

Henry Pirker Station:

- ◆ All analyzers / sensors at the Henry Pirker station had an operational uptime greater than 90%.
- ◆ TRS span dropped on March 2nd (intermittent issue) – otherwise spans were good throughout the month.
- ◆ The wind speed and direction cups froze (snow & dropping temperatures) on March 3rd for a total of fifty-six (56) hours of invalid data from March 3rd to March 6th.
- ◆ The AQI for the month resulted in 703 hours of Good readings and 2 Fair readings.

Evergreen Park Station:

- ◆ All analyzers / sensors at the Evergreen Park station had an operational uptime greater than 90%.
- ◆ Power bumps on March 16th and March 29th resulted in a total of (3) hours of invalid data for the TEOM.

Smoky Heights Station:

- ◆ All analyzers / sensors at the Smoky Heights station had an operational uptime greater than 90%.

Beaverlodge Station:

- ◆ All analyzers / sensors at the Beaverlodge station had an operational uptime greater than 90%.
- ◆ A power bump on March 26th resulted in one (1) hour of invalid data for the TEOM.
- ◆ The AQI for the month resulted in 706 hours of Good readings.

Portable – Spirit River Station:

- ◆ All analyzers / sensors at the Spirit River station had an operational uptime greater than 90%.
- ◆ TRS analyzer spans started to increase on March 29th, 30th and 31st – the pump was rebuilt on April 2nd.
- ◆ The NO_x analyzer spans began to drop March 12th to 16th – calibrated on 17th to address spans.
- ◆ Total of eleven (11) hours were flagged invalid for for the wind sensors due to fog or snow.

Valleyview Station:

- ◆ All analyzers / sensors at the Valleyview station had an operational uptime of 100%.

Passive Monitoring - 54 Stations throughout the PASZA zone:

There were seven duplicate sites sampled in the month of March: Wembley, Pinto Creek, Sunset House, Deer Mountain, Kinuso, Ronan and Grande Prairie HP. The passive sample analyses were performed by MAXXAM Analytics Inc. There is no SO₂ result for Boone Creek, as the sample was found to be damaged by the lab.

A summary of the passive data collected are reported as follows.

- Monthly average concentrations for SO₂ passives ranged from 0.2 ppb to 0.8 ppb, with a mean of 0.4 ppb.
- Monthly average concentrations for NO₂ passives ranged from 0.0 ppb to 9.2 ppb, with a mean of 1.3 ppb.
- Monthly average concentrations for O₃ passives ranged from 31.0 ppb to 57.9 ppb, with a mean of 47.4 ppb.

If you have any questions, please contact the Focus office at 1-888-869-2252 (Kelly Baragar or Sharon Whiteley).

On Behalf of the,
Peace Airshed Zone Association



Michael Bisaga
PASZA Program Manager



Sharon Whiteley, B.Sc..
AQM Data Specialist

PASZA Monthly Continuous Data Summary

Mar-2008 Peace Airshed Zone Association							Maximum Recorded Values						Operational Time (%)
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		1-hr				24-hr / 8-hr		
	1-hr	24-hr			1-hr	24-hr	Conc	Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	
SO ₂ (ppb)	172	57	Henry Pirker	0.2	0	0	2.1	Mar-09 12:00	4.5	SE	0.6	Mar-05	100.0%
SO ₂ (ppb)	172	57	Evergreen Park	0.2	0	0	4.3	Mar-28 08:00	10.4	NW	0.5	Mar-23	100.0%
SO ₂ (ppb)	172	57	Smoky Heights	0.6	0	0	7.5	Mar-05 16:00	7.5	W	1.6	Mar-23	100.0%
SO ₂ (ppb)	172	57	Beaverlodge	0.5	0	0	10.6	Mar-21 22:00	1.9	WSW	1.7	Mar-21	100.0%
SO ₂ (ppb)	172	57	Portable-Spirit River	0.2	0	0	9.3	Mar-09 10:00	15.3	SSW	1.0	Mar-22	100.0%
SO ₂ (ppm)	172	57	Valleyview	0.19	0	0	6.40	Mar-12 04:00	15.0	W	0.94	Mar-12	100.0%
NO (ppb)			Henry Pirker	5.9	-	-	146.5	Mar-10 08:00	2.8	WNW	32.3	Mar-05	100.0%
NO ₂ (ppb)	212	106	Henry Pirker	13.4	0	0	53.6	Mar-05 19:00	N	N	33.6	Mar-10	100.0%
NO _x (ppb)			Henry Pirker	19.2	-	-	195.5	Mar-05 19:00	N	N	62.4	Mar-10	100.0%
NO (ppb)			Beaverlodge	0.6	-	-	14.2	Mar-20 07:00	3.0	SW	2.0	Mar-21	100.0%
NO ₂ (ppb)	212	106	Beaverlodge	3.7	0	0	22.4	Mar-20 07:00	3.0	SW	6.9	Mar-10	100.0%
NO _x (ppb)			Beaverlodge	4.3	-	-	36.7	Mar-20 07:00	3.0	SW	8.8	Mar-21	100.0%
NO (ppb)			Portable-Spirit River	0.4	-	-	19.8	Mar-27 06:00	4.3	W	1.3	Mar-05	100.0%
NO ₂ (ppb)	212	106	Portable-Spirit River	2.6	0	0	17.8	Mar-05 22:00	5.3	WNW	6.9	Mar-05	100.0%
NO _x (ppb)			Portable-Spirit River	2.9	-	-	26.7	Mar-27 06:00	4.3	W	8.1	Mar-05	100.0%
O ₃ (ppb)	82		Henry Pirker	28.0	0	-	53.3	Mar-21 17:00	6.2	E	37.8	Mar-24	100.0%
O ₃ (ppb) - 8-hr		65	Henry Pirker			0					48.3	Mar-21	
O ₃ (ppb)	82		Beaverlodge	38.6	0	-	50.6	Mar-21 16:00	4.6	NE	43.8	Mar-17	100.0%
O ₃ (ppb) - 8-hr		65	Beaverlodge			0					48.9	Mar-20	
O ₃ (ppb)	82		Portable-Spirit River	41.6	0	-	56.6	Mar-06 16:00	14.5	W	49.6	Mar-08	100.0%
O ₃ (ppb) - 8-hr		65	Portable-Spirit River			0					53.4	Mar-06	
CO (ppm)	13		Henry Pirker	0.26	0	-	1.3	Mar-05 19:00	N	N	0.4	Mar-10	99.7%
CO (ppm) - 8-hr		5	Henry Pirker			0					0.8	Mar-06	
THC (ppm)			Henry Pirker	2.12	-	-	3.1	Mar-31 06:00	5.3	WNW	2.4	Mar-05	100.0%
TRS (ppb)			Henry Pirker	0.1	-	-	2.1	Mar-03 02:00	3.2	NNW	0.8	Mar-03	100.0%
TRS (ppb)			Evergreen Park	0.6	-	-	2.4	Mar-06 07:00	2.5	WSW	0.8	Mar-04	100.0%
TRS (ppb)			Smoky Heights	0.4	-	-	0.8	Mar-06 06:00	9.5	SW	0.6	Mar-05	100.0%
TRS (ppb)			Portable-Spirit River	0.5	-	-	1.4	Sep-22 22:00	1.6	SSE	0.6	Sep-22	100.0%
H ₂ S (ppb)	10	3	Valleyview	0.1	0	0	7.7	Mar-05 23:00	1.1	SSW	0.5	Mar-05	100.0%
PM _{2.5} (µg/m ³)	80	30	Henry Pirker	5.5	0	0	20.6	Mar-06 11:00	N	N	7.5	Mar-21	99.7%
PM _{2.5} (µg/m ³)	80	30	Evergreen Park	5.7	0	0	17.6	Mar-06 09:00	3.5	WSW	6.8	Mar-21	98.7%
PM _{2.5} (µg/m ³)	80	30	Smoky Heights	5.4	1	0	132.6	Mar-19 21:00	7.1	NNE	9.1	Mar-19	98.0%
PM _{2.5} (µg/m ³)	80	30	Beaverlodge	3.6	0	0	13.2	Mar-23 16:00	17.2	WNW	5.1	Mar-21	99.7%

Continuous Network Equipment Summary

PASZA – Henry Pirker Station

General Station Issues

Routine monthly calibrations were performed on March 5th (CO), March 6th (SO₂, O₃ & NO_x) and March 7th (THC & TRS).

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed.
NOx/NO/NO ₂	TEI	42C	No operational issues observed.
O ₃	TEI	49C	No operational issues observed.
CO	TEI	48C	No operational issues observed.
THC	TEI	51-CLT	No operational issues observed.
TRS	TEI	43C	Span dropped March 2 nd – intermittent issue (low humidity affecting SOX scrubber).
PM _{2.5}	R&P	1400AB	Two (2) hours were flagged due to excessive baseline drift.
RH	Met One	083D	No operational issues observed.
AT	Met One	083D	No operational issues observed.
SR	Met One	096-1	No operational issues observed.
WS/WD	Met One	010C/020C	Cups froze on March 3 rd – total of fifty-six (56) hours of invalid data.

PASZA – Evergreen Park Station

General Station Issues

Routine monthly calibrations were performed on March 12th (SO₂, TRS & TEOM).

Parameter	Make	Model	Notes
SO ₂	TEI	43i	No operational issues observed.
TRS	TEI	43C	No operational issues observed.
PM _{2.5}	R&P	1400AB	Seven (7) hours were flagged due to excessive baseline drift. Power bumps on March 16 th and 29 th resulted in total of three (3) hours of invalid data.
AT	Met One	083D	No operational issues observed.
WS	Met One	010C	No operational issues observed.
WD	Met One	020C	No operational issues observed.

PASZA – Smoky Heights Station

General Station Issues

Routine monthly calibrations were performed on March 19th (SO₂, TRS).

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed.
TRS	TEI	43C	No operational issues observed.
PM _{2.5}	R&P	1400AB	Fifteen (15) hours were removed due to excessive baseline drift. On March 19 th there was a one hour exceedence of the Alberta Objective (133 µg/m ³) – Alberta Environment Ref # 199099.
AT	Met One	083D	No operational issues observed.
WS	Met One	010C	No operational issues observed.
WD	Met One	020C	No operational issues observed.

PASZA – Beaverlodge Station

General Station Issues

Routine monthly calibrations were performed on March 14th (SO₂, NO_x and O₃).

Parameter	Make	Model	Notes
SO ₂	TEI	43CTL	No operational issues observed.
NO _x /NO/NO ₂	TEI	42C	No operational issues observed.
O ₃	TEI	49C	No operational issues observed.
PM _{2.5}	R&P	1400AB	One (1) hour was removed due to excessive baseline drift. Power bump on March 26 th resulted in one (1) hour of invalid data.
AT	n/a	n/a	No operational issues observed.
RH	n/a	n/a	No operational issues observed.
WS	Blue Sky	857	No operational issues observed.
WD	Blue Sky	857	No operational issues observed.

PASZA – Spirit River (Portable) Station

General Station Issues

Routine monthly calibrations were performed on March 17th (SO₂ and NO_x) and March 18th (O₃ and TRS).

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed.
NOx/NO/NO ₂	TEI	42i	No operational issues observed.
TRS	TEI	43C	No operational issues observed.
O ₃	TEI	49C	No operational issues observed.
AT	Gill	Met Pak 3	No operational issues observed.
RH	Gill	Met Pak 3	No operational issues observed.
WS	Met One		Total of eleven (11) hours were flagged invalid – possibly due to fog or snow.
WD	Met One		Total of eleven (11) hours were flagged invalid – possibly due to fog or snow.

PASZA – Valleyview Station

General Station Issues

Routine monthly calibrations were performed on March 13th (SO₂ and H₂S).

Parameter	Make	Model	Notes
SO ₂	TEI	43i	No operational issues observed.
H ₂ S	TEI	43A	No operational issues observed.
AT	Gill	Met Pak 3	No operational issues observed.
RH	Gill	Met Pak 3	No operational issues observed.
WS	Gill	Met Pak 3	No operational issues observed.
WD	Gill	Met Pak 3	No operational issues observed.

PASZA
Henry Pirker Station
Monthly Summary Tables, Graphs and
Roses

PASZA - Henry Pirker AQI Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

Air Quality Index (AQI)

Monitoring Dates: March 1, 2008 to April 1, 2008

Alberta's Air Quality Index

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

Summary

Number of 1-hr Good Readings:	703
Number of 1-hr Fair Readings:	2
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day	Mountain Standard Time																							
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1-Mar-08	17	16	N	14	14	14	14	14	N	14	15	15	15	15	15	15	15	14	14	13	14	14	14	14
2-Mar-08	15	15	14	12	10	6	7	N	12	13	13	13	13	14	14	14	13	11	9	8	8	10	9	10
3-Mar-08	12	10	11	11	9	8	N	8	9	10	9	9	9	14	18	16	14	14	13	13	14	14	14	14
4-Mar-08	14	13	12	9	5	N	7	7	12	10	12	10	13	14	14	16	14	16	9	12	11	9	7	9
5-Mar-08	7	6	7	6	N	7	8	9	9	10	9	10	13	13	15	15	14	9	12	13	11	9	9	8
6-Mar-08	7	6	6	6	7	N	9	8	10	N	N	N	N	15	N	2	2	2	20	20	21	22	22	22
7-Mar-08	21	19	20	20	19	N	9	11	8	11	14	14	16	21	23	23	21	20	16	10	11	11	10	8
8-Mar-08	7	7	8	9	9	N	6	8	7	11	16	20	22	23	23	24	23	22	21	18	16	16	14	14
9-Mar-08	14	17	16	17	N	11	7	10	9	14	15	16	18	15	15	18	18	16	18	21	22	21	20	18
10-Mar-08	19	14	8	N	7	8	9	10	11	8	8	10	12	11	12	15	15	12	11	11	11	9	17	18
11-Mar-08	18	19	N	18	15	8	6	11	7	8	12	14	16	19	19	18	18	19	18	17	16	17	17	18
12-Mar-08	18	N	18	18	18	18	18	19	20	20	20	21	21	20	20	20	19	18	19	15	15	18	19	18
13-Mar-08	N	18	18	12	9	8	10	8	9	13	16	16	16	17	20	21	21	21	18	17	17	18	19	N
14-Mar-08	19	19	18	17	14	14	13	11	14	16	17	18	19	19	20	20	19	18	16	15	15	15	N	16
15-Mar-08	16	16	16	17	17	17	17	17	17	16	17	17	18	17	18	18	18	18	17	16	15	N	9	17
16-Mar-08	15	8	5	7	7	8	8	7	10	14	14	14	15	15	15	16	16	15	13	6	N	7	7	7
17-Mar-08	6	7	13	18	20	20	19	18	19	21	21	22	22	22	22	22	21	20	20	N	20	17	18	17
18-Mar-08	18	18	17	14	16	8	7	10	10	16	20	22	22	22	23	22	21	21	N	10	8	14	16	17
19-Mar-08	17	18	20	17	17	15	8	11	15	19	20	21	22	22	23	23	22	N	19	8	8	8	9	9
20-Mar-08	7	7	8	12	7	9	7	7	9	7	11	14	17	15	18	21	N	22	18	18	19	18	18	17
21-Mar-08	18	16	12	10	10	6	10	9	11	14	17	20	22	25	24	N	27	28	25	19	15	17	13	11
22-Mar-08	12	9	6	8	9	7	5	8	9	9	9	12	14	17	N	19	21	22	21	21	21	21	21	20
23-Mar-08	20	19	19	18	17	17	16	15	13	13	15	16	17	N	16	16	16	20	22	22	18	N	21	19
24-Mar-08	18	19	17	19	17	15	14	16	19	20	21	21	N	22	22	22	22	22	20	18	18	17	17	17
25-Mar-08	18	17	17	16	15	14	11	8	15	17	18	N	22	23	23	23	23	22	18	16	12	14	15	15
26-Mar-08	14	16	17	17	11	7	10	11	16	17	N	19	18	18	19	19	19	20	20	20	19	19	19	19
27-Mar-08	19	19	19	18	17	15	13	11	11	N	14	18	19	19	19	20	20	20	20	15	11	10	9	7
28-Mar-08	8	8	9	10	11	14	15	16	N	17	17	18	19	19	19	18	18	19	19	18	17	17	17	18
29-Mar-08	17	16	17	16	14	14	14	N	16	18	19	19	20	21	21	21	21	21	20	18	13	13	13	14
30-Mar-08	11	5	5	7	7	5	N	8	11	12	13	16	17	19	20	21	21	22	20	17	15	17	16	15
31-Mar-08	14	14	14	12	10	N	8	8	8	12	15	16	19	22	23	24	24	23	23	19	17	18	18	17

PASZA - Henry Pirker Sulphur Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

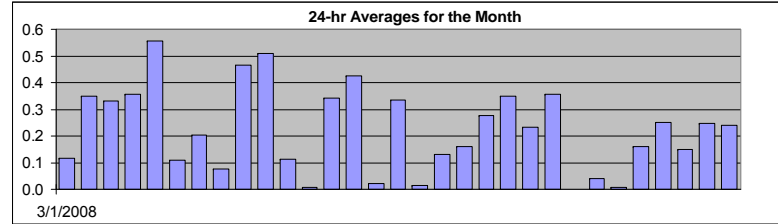
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	2.1 ppb	9-Mar	12:00	13:00
Maximum 24-hr Average:	0.6 ppb	5-Mar		



AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.7	0.9	0.3	0.0	0.0	0.0	0.0	0.2 ppb	0.0 ppb

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Mar-08	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.1	0.7	
2-Mar-08	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.4	1.1	
3-Mar-08	1	1	1	1	1	1	1	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.0	
4-Mar-08	0	0	0	0	0	A	0	0	0	1	1	0	1	0	1	0	0	0	1	1	1	1	0	1	0.4	0.9	
5-Mar-08	0	0	0	0	0	A	0	0	1	1	0	0	1	0	0	0	0	1	1	2	2	1	1	0	0.6	1.8	
6-Mar-08	0	0	0	0	0	A	1	0	1	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6	
7-Mar-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.2	0.9	
8-Mar-08	0	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
9-Mar-08	0	0	1	0	A	0	0	0	1	0	1	1	2	0	0	1	1	0	0	0	0	0	0	0	0.5	2.1	
10-Mar-08	0	0	0	A	0	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0.5	1.3	
11-Mar-08	0	0	A	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6	
12-Mar-08	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	
13-Mar-08	A	0	0	0	0	0	0	0	0	0	1	2	1	1	1	0	0	0	0	0	0	0	0	A	0.3	1.8	
14-Mar-08	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	A	0	0.4	1.3
15-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.0	0.2
16-Mar-08	0	0	0	0	0	0	0	0	1	2	0	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0.3	2.1
17-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3	
18-Mar-08	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	0.1	0.6
19-Mar-08	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	A	0	1	0	0	0	0	0.2	0.7
20-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	A	0	0	0	2	0	0	0	0	0.3	2.1
21-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	A	1	1	1	1	1	0	0	0	0.3	1.3
22-Mar-08	0	0	0	1	1	0	0	0	0	0	1	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0.2	1.1
23-Mar-08	0	0	0	0	0	0	0	0	1	1	1	1	1	1	A	1	1	1	0	0	0	0	0	0	0	0.4	1.1
24-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
25-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.4
26-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
27-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
28-Mar-08	0	0	0	0	0	0	0	0	0	A	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0.3	0.7
29-Mar-08	0	0	0	0	0	0	0	A	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0.1	1.9
30-Mar-08	0	0	0	0	0	0	A	0	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.7
31-Mar-08	0	0	0	0	0	A	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.2	0.9
Hourly Avg	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.2		
Hourly Max	1.0	0.8	0.8	1.1	1.0	0.8	0.5	1.4	2.1	1.6	1.7	1.8	2.1	1.0	1.3	0.9	1.3	1.1	1.9	1.8	2.1	1.0	0.9	1.1			

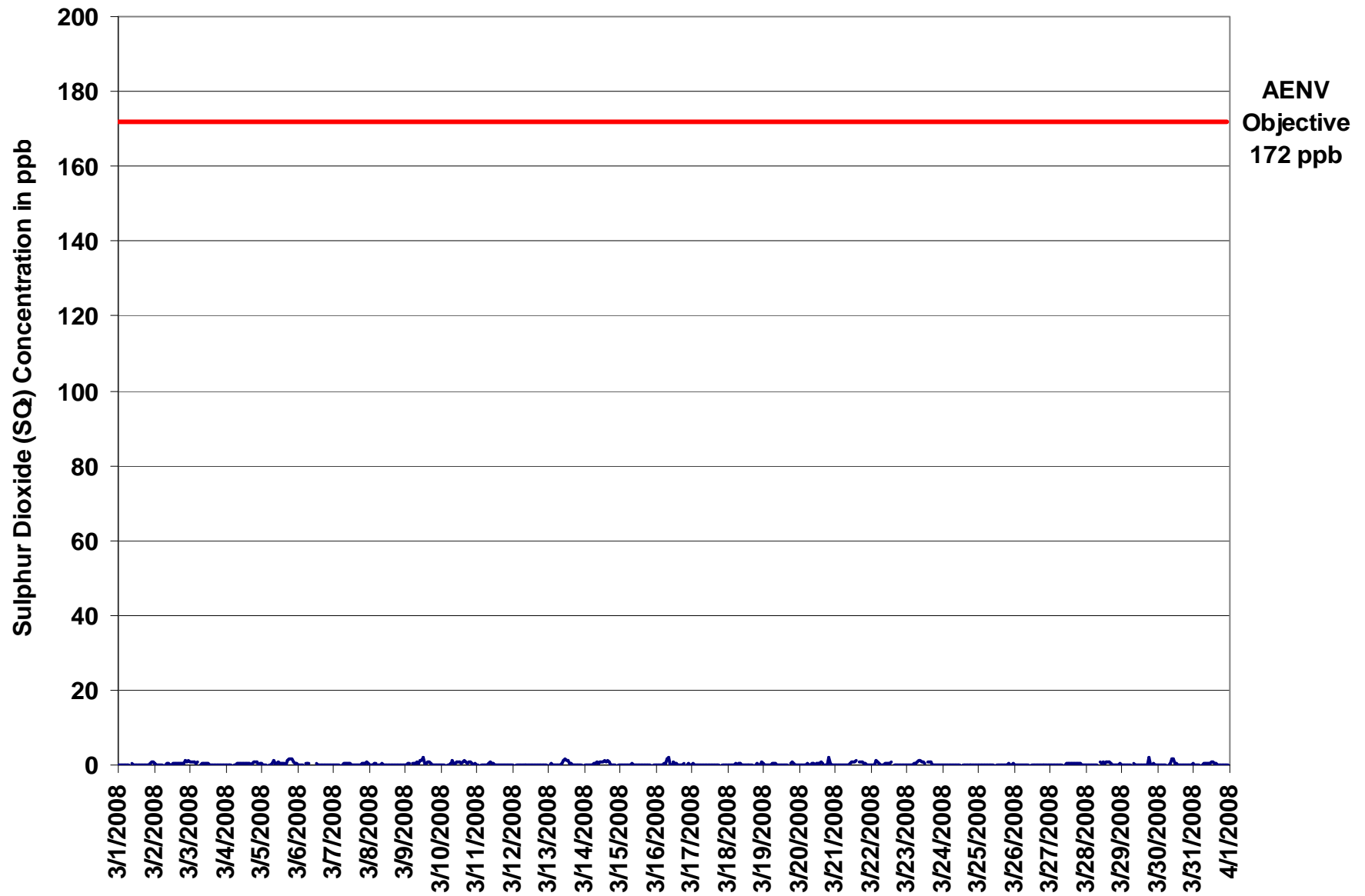


Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

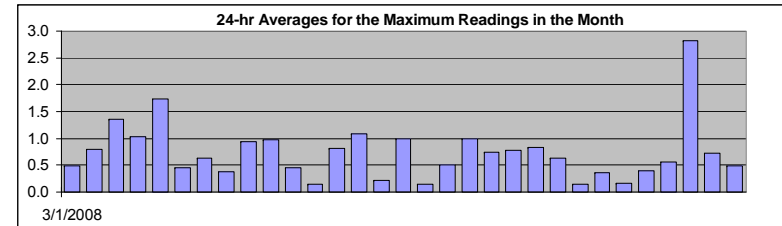
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	55.0	ppb	29-Mar	18:00 19:00
Maximum 24-hr Value:	2.8	ppb	29-Mar	



AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.3	2.0	0.9	0.5	0.1	0.0	0.0	0.7 ppb	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-Mar-08	0	0	0	0	0	0	0	0	A	1	1	1	1	1	0	1	0	0	0	0	1	2	1	0.5	2.0	
2-Mar-08	1	1	1	0	1	1	1	A	0	0	0	1	0	1	1	1	1	1	1	2	2	1	2	0.8	1.7	
3-Mar-08	1	1	1	1	1	1	A	1	1	1	1	1	1	1	16	0	1	0	0	1	0	0	0	1.4	16.2	
4-Mar-08	0	0	0	0	0	A	0	0	0	3	1	1	2	1	1	0	0	0	1	2	1	4	0	1.0	4.0	
5-Mar-08	1	0	1	1	A	0	0	1	3	1	1	2	0	1	0	0	0	7	2	3	7	2	1	1.7	7.4	
6-Mar-08	1	1	0	0	0	A	1	1	3	C	C	C	A	1	0	0	0	0	0	0	0	0	0	0.5	3.0	
7-Mar-08	0	1	0	0	0	A	1	1	1	1	1	1	1	0	0	1	0	1	1	1	1	2	1	0.6	2.5	
8-Mar-08	1	0	1	1	1	A	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4	1.4	
9-Mar-08	1	1	1	1	A	1	1	1	1	1	2	2	3	1	3	1	1	1	1	0	0	0	0	0.9	3.0	
10-Mar-08	0	0	1	A	0	0	1	2	2	3	1	2	2	1	1	1	2	1	1	1	1	1	1	1.0	2.7	
11-Mar-08	1	0	A	1	1	1	1	1	2	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0.5	1.6	
12-Mar-08	0	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0.1	0.7	
13-Mar-08	A	1	1	1	0	0	1	1	1	1	4	3	2	2	1	2	1	0	0	0	0	0	A	0.8	3.5	
14-Mar-08	0	0	0	0	1	0	1	1	3	2	2	2	1	1	2	2	3	2	1	0	0	0	A	1.1	3.0	
15-Mar-08	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	A	0	0.2	1.1	
16-Mar-08	1	2	0	1	1	1	1	5	5	1	0	1	1	1	1	0	0	0	0	0	A	0	1	1.0	5.0	
17-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	0.1	0.5	
18-Mar-08	0	0	0	0	0	1	1	1	1	1	0	1	0	0	0	1	1	0	A	0	1	1	1	0.5	1.1	
19-Mar-08	1	0	0	0	0	0	7	6	1	0	0	0	0	0	0	2	A	1	3	1	1	1	0	1.0	7.2	
20-Mar-08	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	1	A	0	0	1	3	1	0	0.7	3.5	
21-Mar-08	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	A	1	1	1	1	5	0	0	0.8	5.4	
22-Mar-08	0	0	1	5	2	1	0	0	0	0	1	1	1	2	A	1	0	0	0	0	0	0	0	0.8	5.4	
23-Mar-08	0	0	0	0	0	0	1	1	2	1	1	1	1	A	1	1	1	1	0	0	0	0	0	0.6	1.5	
24-Mar-08	0	1	0	0	0	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
25-Mar-08	0	0	0	0	0	0	0	1	0	0	1	A	0	0	0	1	0	0	0	1	3	1	1	0.4	2.8	
26-Mar-08	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5	
27-Mar-08	0	0	0	0	0	0	0	0	0	A	0	0	0	0	1	1	0	0	0	0	1	0	0	0.4	0.9	
28-Mar-08	0	0	0	1	0	1	1	1	A	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0.6	1.3	
29-Mar-08	0	0	0	0	0	0	0	A	1	0	0	0	1	0	0	0	0	0	55	0	1	1	1	2.8	55.0	
30-Mar-08	0	1	0	0	1	0	A	1	2	3	2	1	1	1	1	1	1	1	1	1	0	1	1	0.7	2.5	
31-Mar-08	1	1	1	0	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0.5	1.1	
Hourly Avg	0.4	0.4	0.4	0.5	0.4	0.3	0.7	0.9	1.1	0.9	0.8	0.9	0.8	0.6	1.2	0.6	0.5	0.6	2.2	0.7	1.0	0.6	0.5	0.5		
Hourly Max	1.3	1.5	1.1	5.4	2.5	1.1	7.2	5.6	4.7	2.7	3.5	2.7	3.0	2.4	16.2	2.0	2.5	6.9	55.0	3.2	7.4	4.0	2.5	1.6		

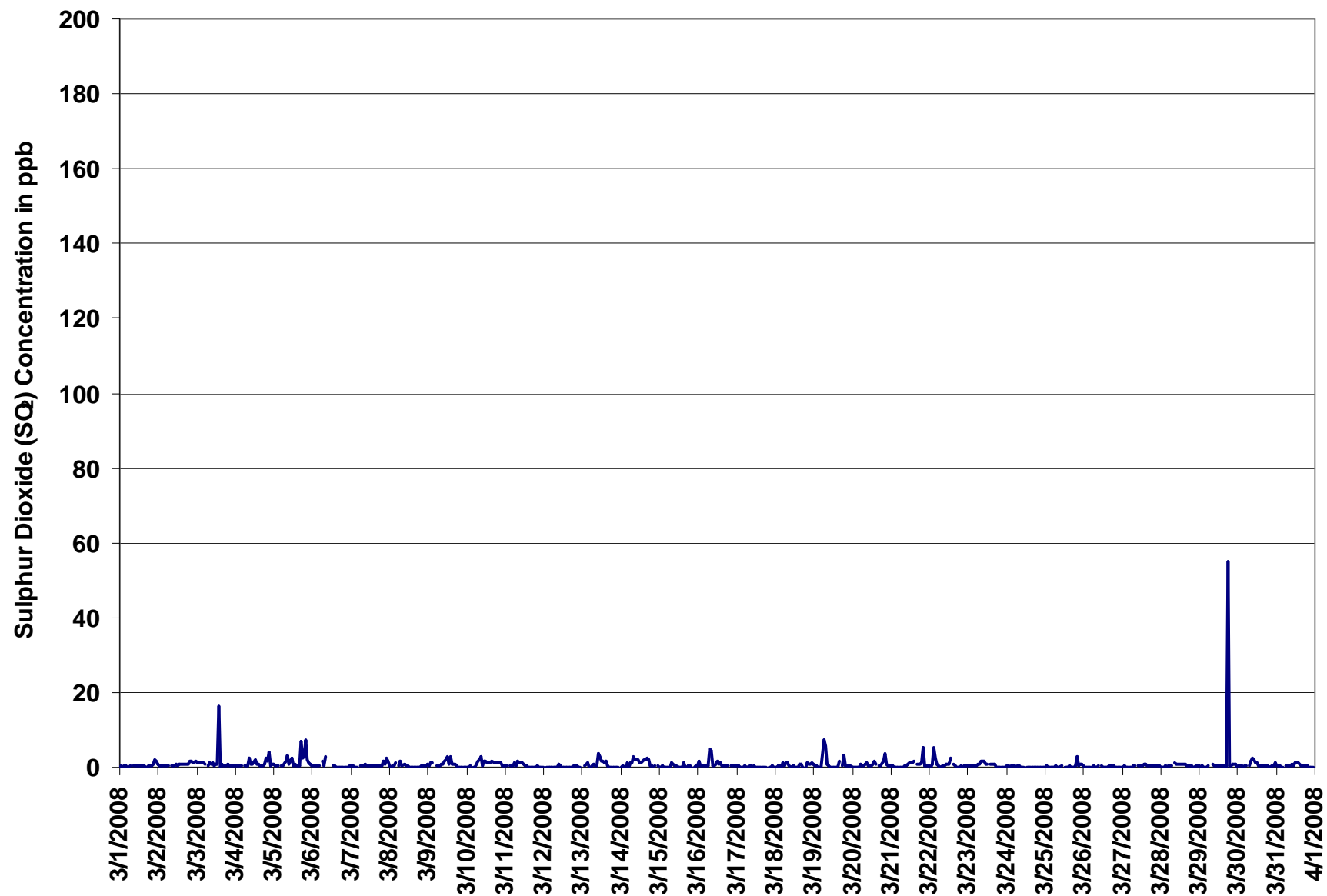
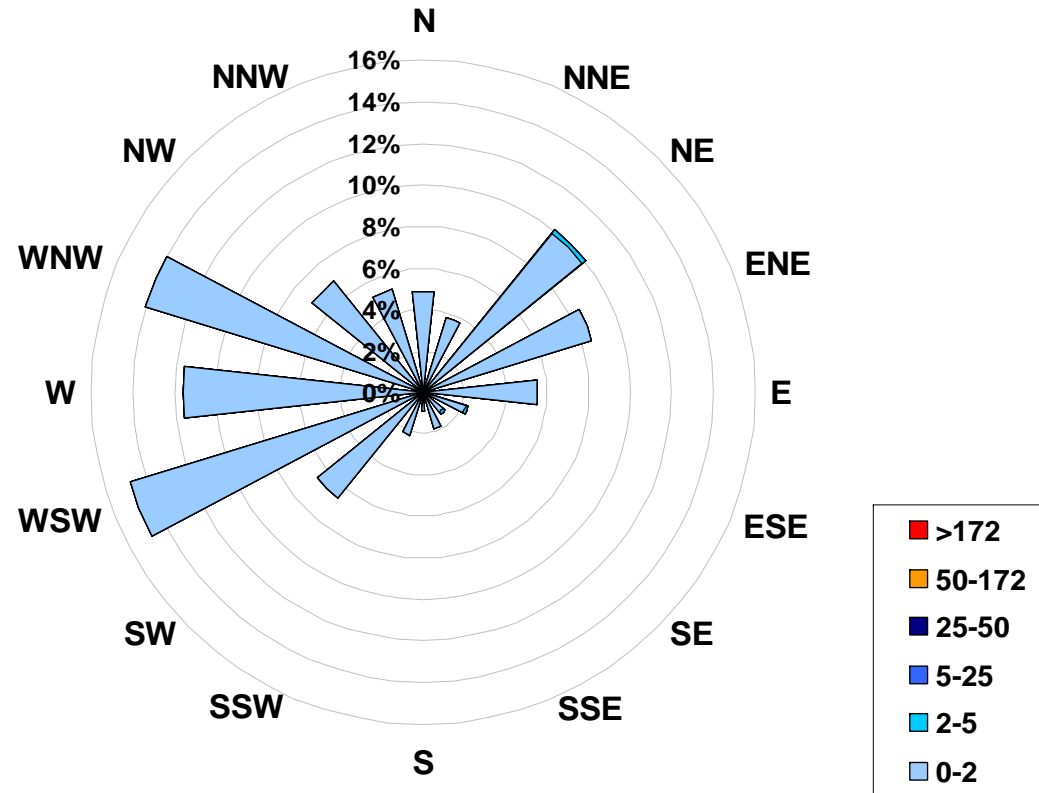


Figure 2. PASZA - Henry Pirker Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Henry Pirkker Site for March 2008



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	< 2		705
2	to 5		3
5	to 25		0
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			708

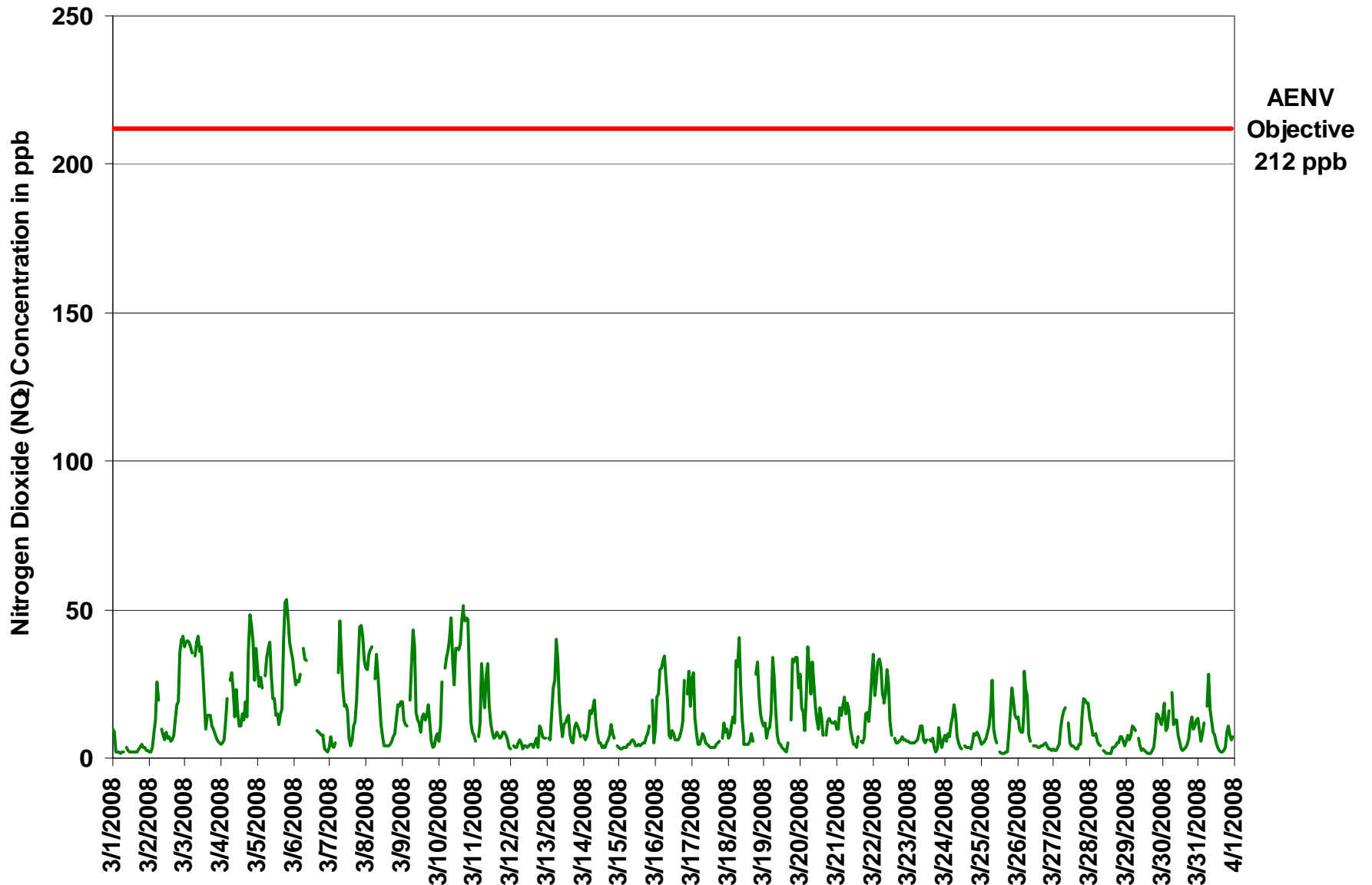


Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend

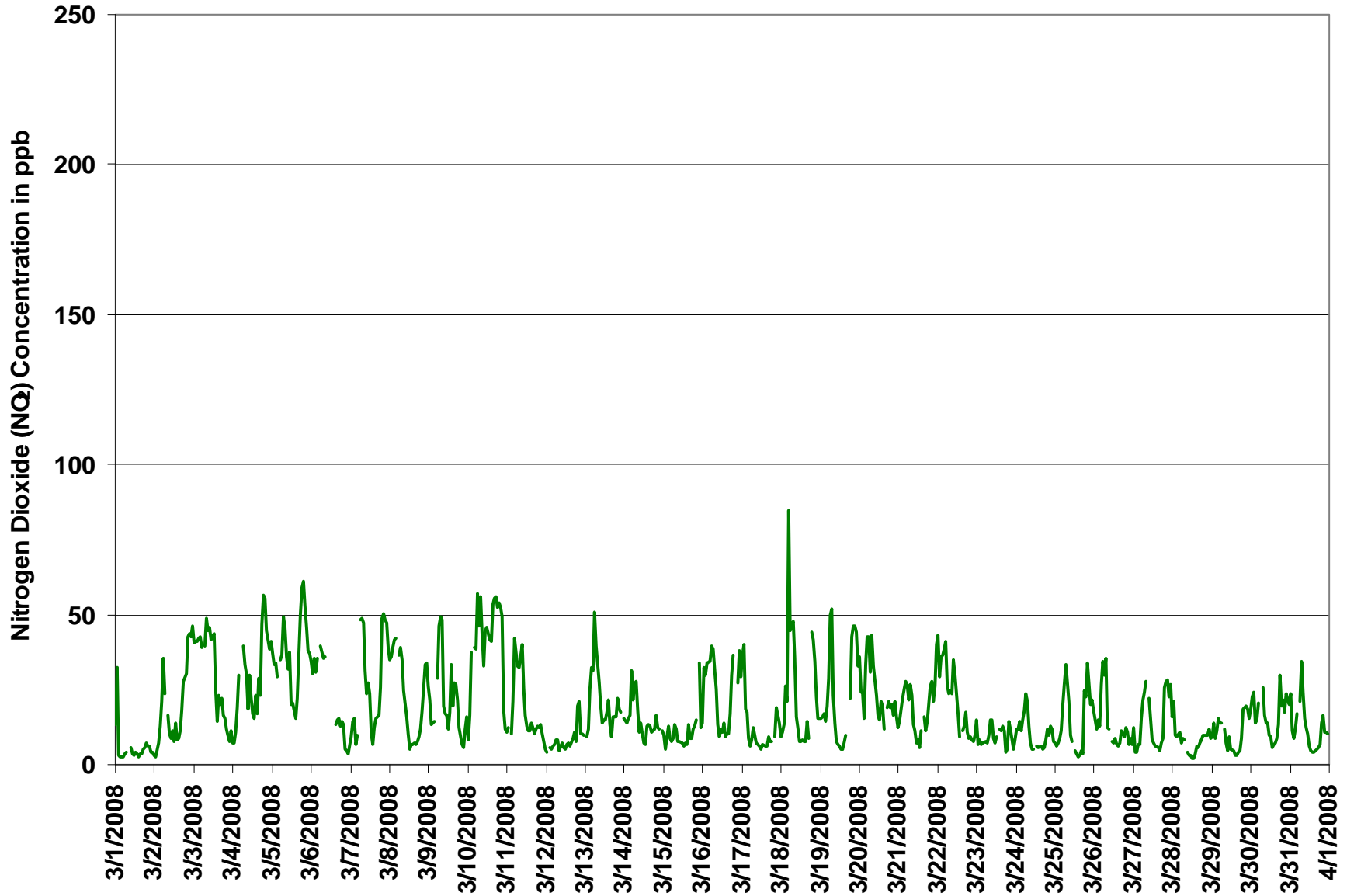
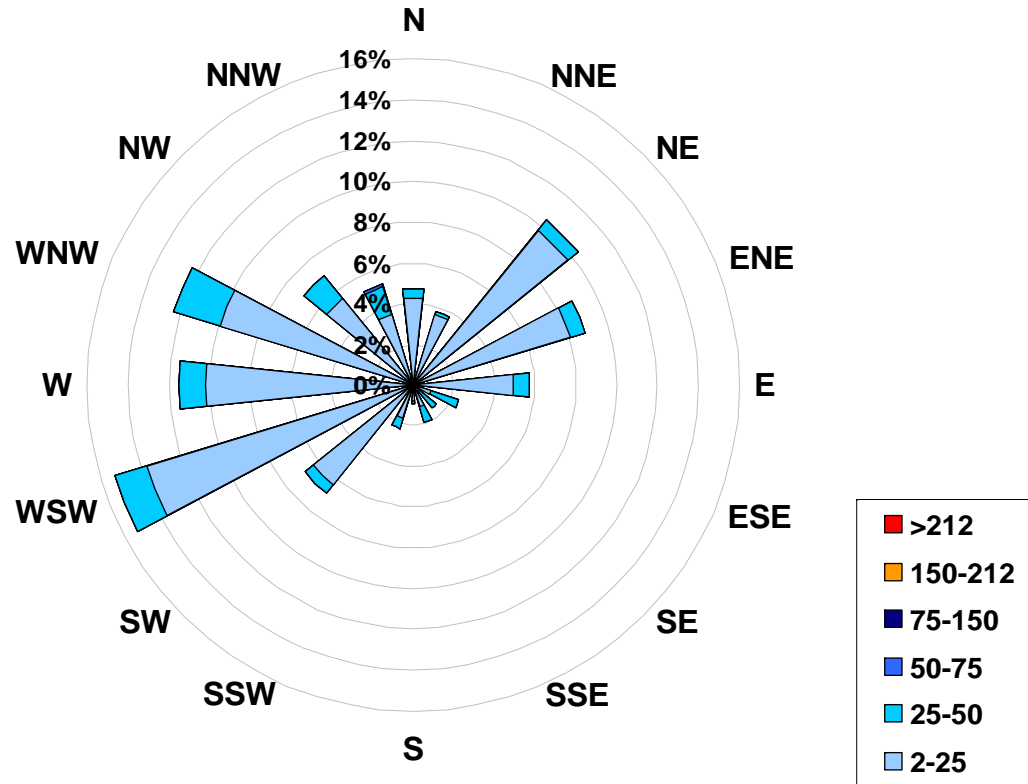


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Henry Pirkker Site for March 2008



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		656
25	to 50		40
50	to 75		4
75	to 150		6
150	to 212		0
	> 212		0
Total Non-Zero Values			706

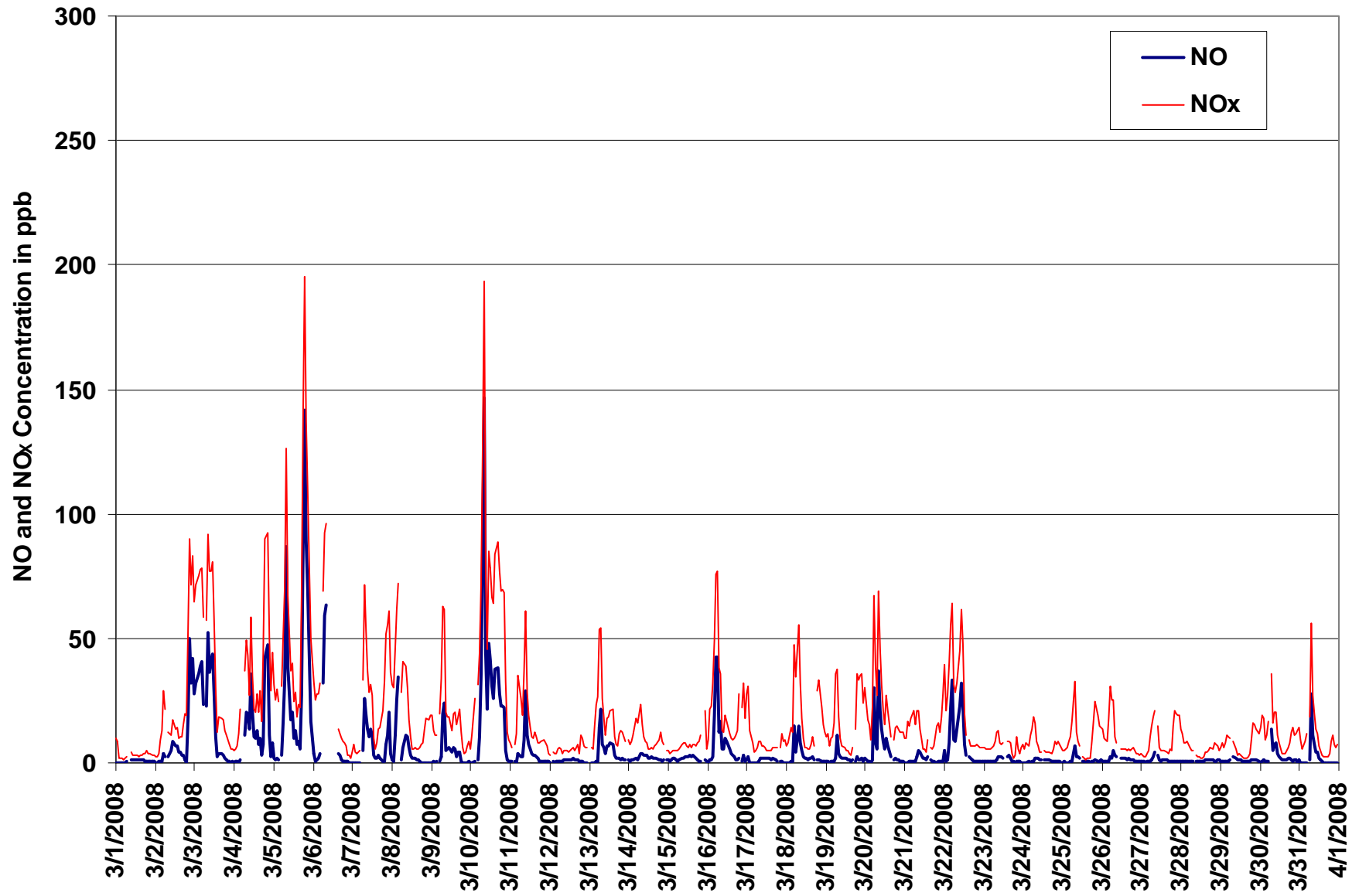


Figure 5. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Average Monthly Trend

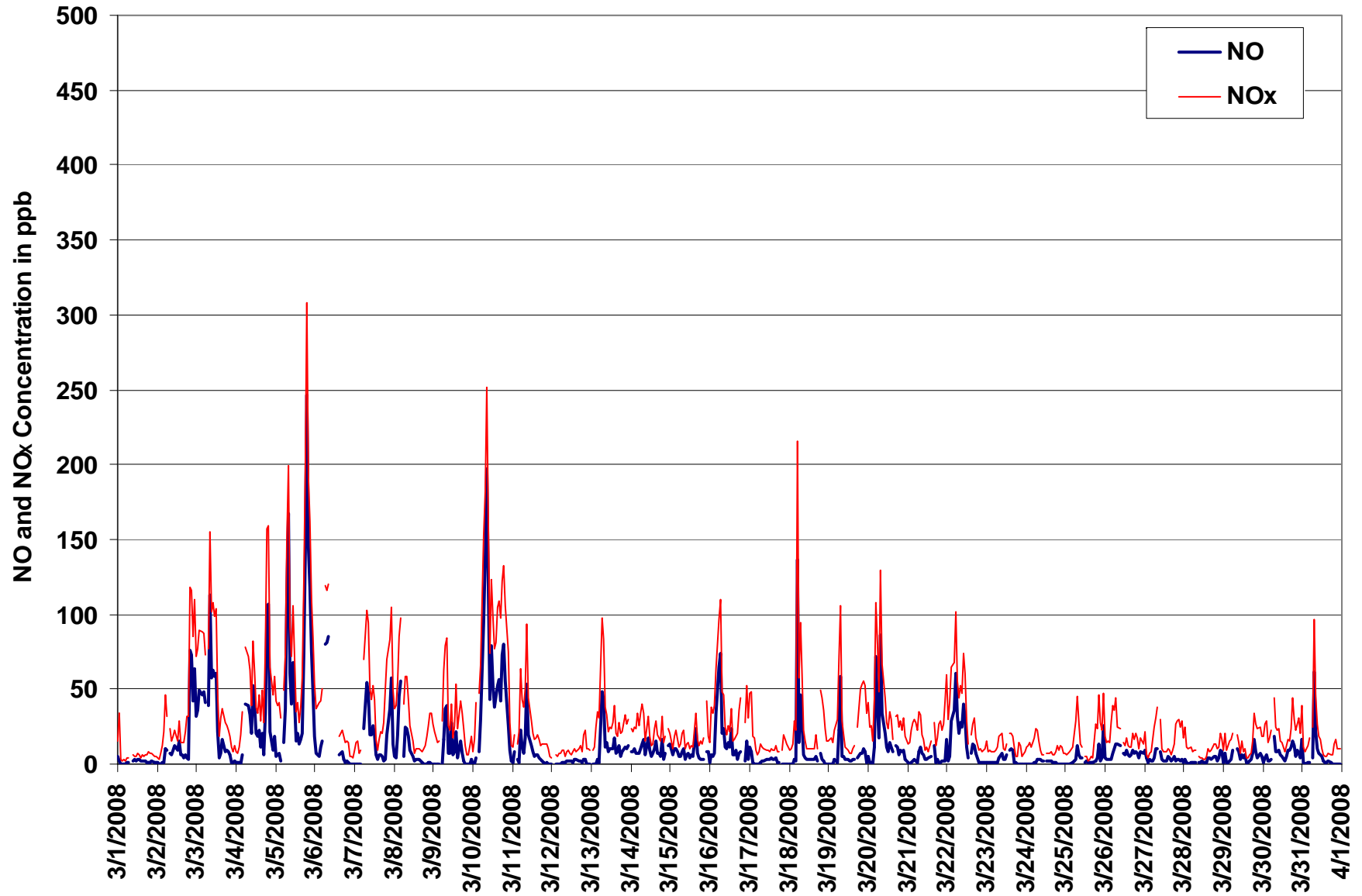


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

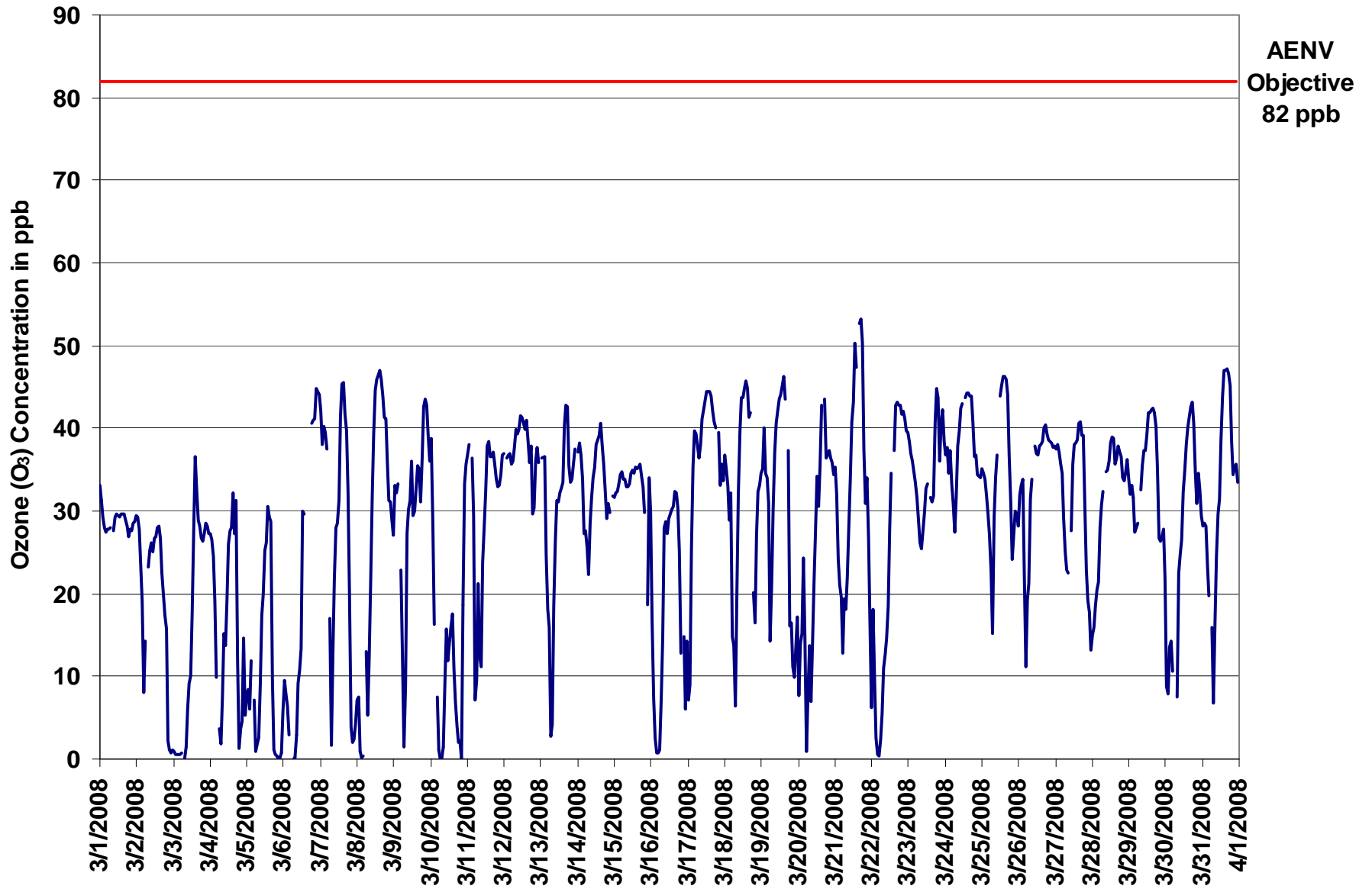


Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

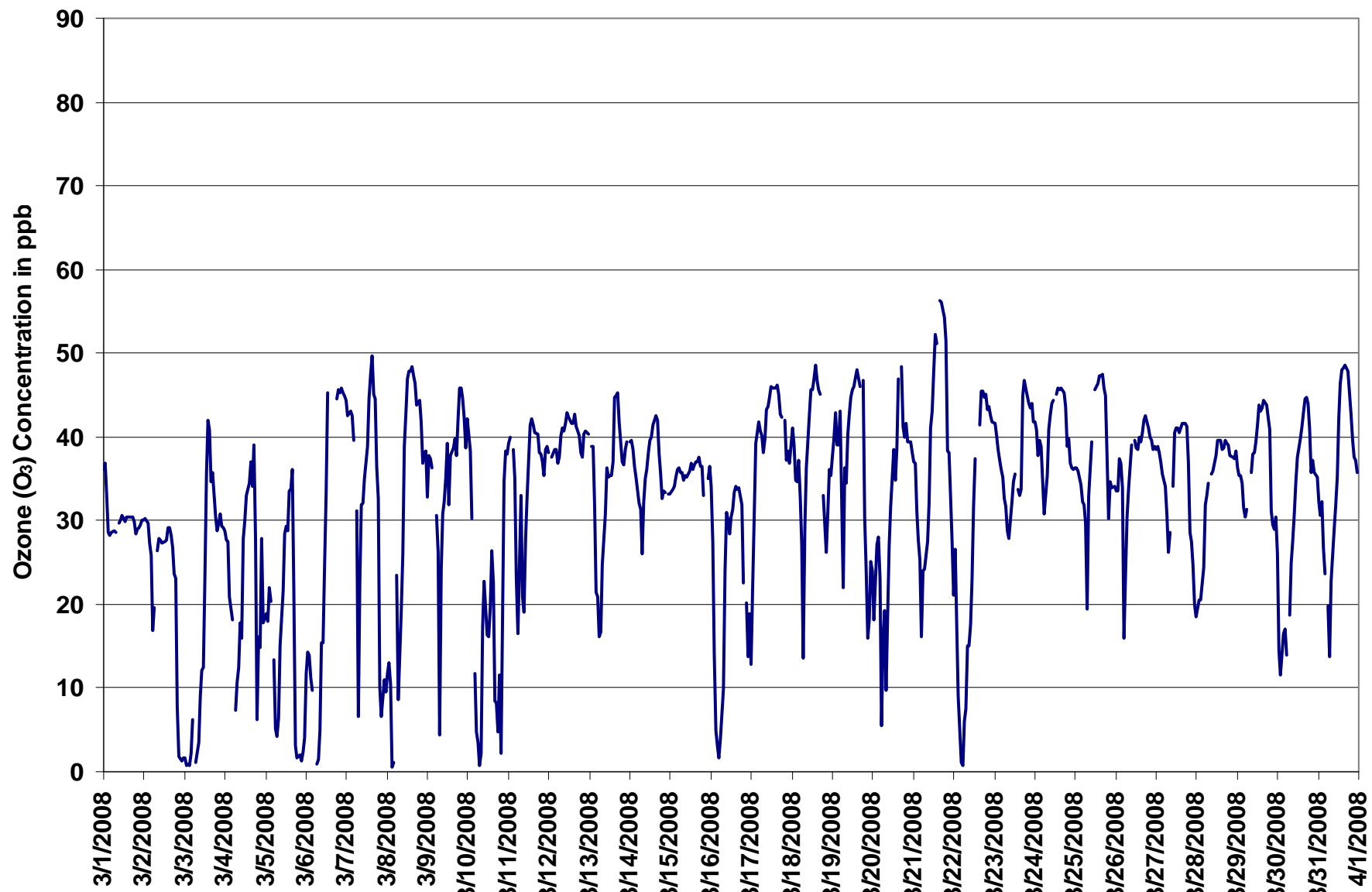
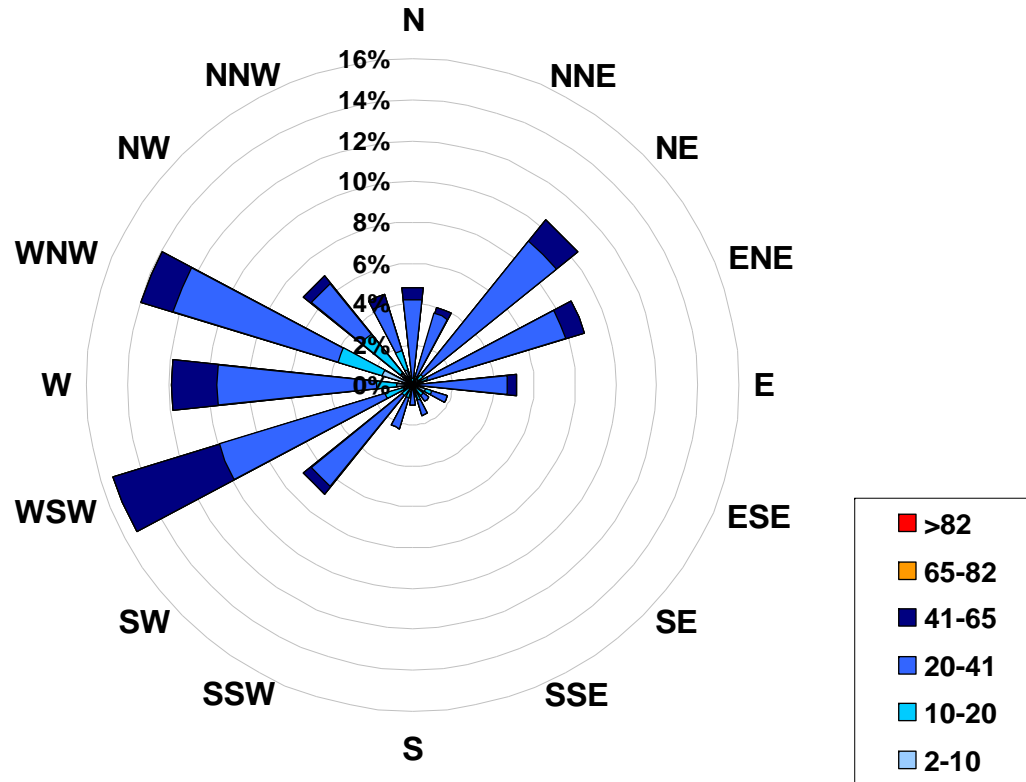


Figure 8. PASZA - Henry Pirker Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Henry Pirker Site for March 2008



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	< 10		101
10	to 20		81
20	to 41		436
41	to 65		90
65	to 82		0
	> 82		0
Total Non-Zero Values			708

PASZA - Henry Pirker Ozone Eight Hour Average Summary

Station: Henry Pirker
 Station Owner: PASZA

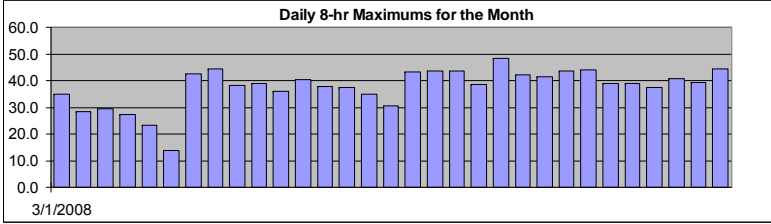
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: March 1, 2008 to April 1, 2008

Objective Limit: Alberta Environment: 8-hr 65 ppb

Number of 8-hr Exceedances:		0	
Maximum 8-hr Average:	48.3 ppb	21-Mar	18:00 19:00



Percentile							
99	95	75	50	25	5	1	
44.0	42.0	36.2	30.4	21.1	6.0	2.3	

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																							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-Mar-08	35	34	34	33	32	31	30	29	29	28	28	28	29	29	29	29	29	29	29	29	29	29	28	28	34.7
2-Mar-08	28	28	28	28	27	24	22	22	21	20	20	20	21	24	26	26	27	26	25	24	21	18	14	11	28.3
3-Mar-08	8	5	3	1	1	1	1	1	1	1	3	4	6	10	14	18	21	24	26	28	29	29	28	28	29.4
4-Mar-08	27	27	27	26	24	23	20	16	13	12	10	10	12	14	17	21	24	26	25	23	20	18	16	13	27.4
5-Mar-08	10	7	6	8	8	9	7	6	6	6	7	8	11	13	17	20	23	23	21	19	16	13	9	5	23.4
6-Mar-08	2	2	3	4	4	5	5	5	4	4	5	6	9	12	14	N	N	N	N	N	N	N	N	N	13.7
7-Mar-08	43	42	42	42	41	41	37	31	27	24	23	21	20	23	26	32	35	38	38	37	34	29	23	18	42.6
8-Mar-08	14	10	6	4	3	3	5	5	6	8	12	18	24	27	31	36	40	43	44	45	43	42	40	37	44.5
9-Mar-08	35	34	33	32	31	30	27	23	21	20	19	19	21	22	24	29	32	32	33	35	35	37	38	38	38.3
10-Mar-08	39	39	36	35	30	24	18	13	8	5	5	6	7	9	11	12	13	12	10	9	7	8	10	13	38.8
11-Mar-08	17	21	24	28	33	31	28	26	22	18	19	18	18	22	26	28	31	34	35	36	36	36	35	35	36.1
12-Mar-08	35	35	35	35	36	36	37	37	37	37	38	38	39	40	40	40	40	40	40	38	37	36	36	35	40.4
13-Mar-08	35	35	35	34	32	29	24	20	18	18	19	20	22	26	31	34	36	36	37	37	37	37	38	37	37.7
14-Mar-08	37	36	36	36	35	34	32	31	30	29	29	29	30	32	33	36	37	37	37	36	36	34	34	33	37.4
15-Mar-08	32	31	31	32	32	33	33	33	33	34	34	34	34	34	34	34	35	35	35	35	34	34	32	31	35.0
16-Mar-08	31	28	24	20	16	14	12	8	6	8	10	14	17	21	24	28	30	30	30	28	28	25	22	19	30.7
17-Mar-08	16	13	13	16	19	22	26	29	33	37	39	40	40	41	42	43	43	43	43	43	42	41	39	38	43.2
18-Mar-08	37	36	35	34	34	31	29	25	23	23	23	25	27	30	34	39	42	43	44	40	36	34	32	30	43.7
19-Mar-08	29	28	30	32	34	34	32	31	30	30	30	31	32	34	38	41	43	44	43	39	36	31	26	22	43.6
20-Mar-08	17	16	13	14	14	13	13	12	12	12	13	13	16	20	23	27	29	34	36	37	38	38	38	37	38.5
21-Mar-08	37	36	34	32	30	27	25	23	21	21	22	24	27	32	36	38	42	46	48	48	46	44	41	38	48.3
22-Mar-08	32	27	22	18	14	10	7	6	6	6	8	12	16	18	22	27	31	35	39	41	42	42	42	42	42.0
23-Mar-08	42	41	40	39	39	38	36	35	33	32	31	30	30	30	30	30	31	33	35	37	37	38	39	40	41.6
24-Mar-08	40	40	39	38	38	36	35	34	34	34	35	36	36	38	40	42	43	44	43	42	42	41	39	38	43.6
25-Mar-08	37	36	35	34	33	33	31	29	28	28	28	28	30	32	36	40	43	44	44	42	40	38	36	34	44.0
26-Mar-08	31	30	29	30	30	28	26	25	26	26	25	25	27	31	34	36	37	38	38	38	39	39	39	39	38.9
27-Mar-08	39	38	38	38	37	36	34	32	31	30	28	28	29	30	32	34	37	37	39	38	36	34	31	28	38.8
28-Mar-08	25	22	19	18	18	19	20	23	24	27	29	31	34	35	36	37	37	37	37	37	37	36	36	36	37.5
29-Mar-08	36	35	34	34	33	32	31	31	30	31	32	32	34	36	38	38	40	40	41	41	39	37	35	33	40.9
30-Mar-08	31	27	23	20	18	16	15	12	12	14	17	20	23	27	28	33	35	37	39	39	39	39	38	36	39.4
31-Mar-08	34	32	31	30	28	27	25	22	20	19	20	21	23	26	30	35	39	41	43	44	44	43	41	40	44.2

Hourly Max 42.6 42.0 42.0 41.8 41.3 40.8 36.9 36.6 37.0 37.3 38.8 39.8 40.4 41.0 41.8 42.7 43.2 46.0 48.3 47.8 46.0 43.7 41.7 42.0

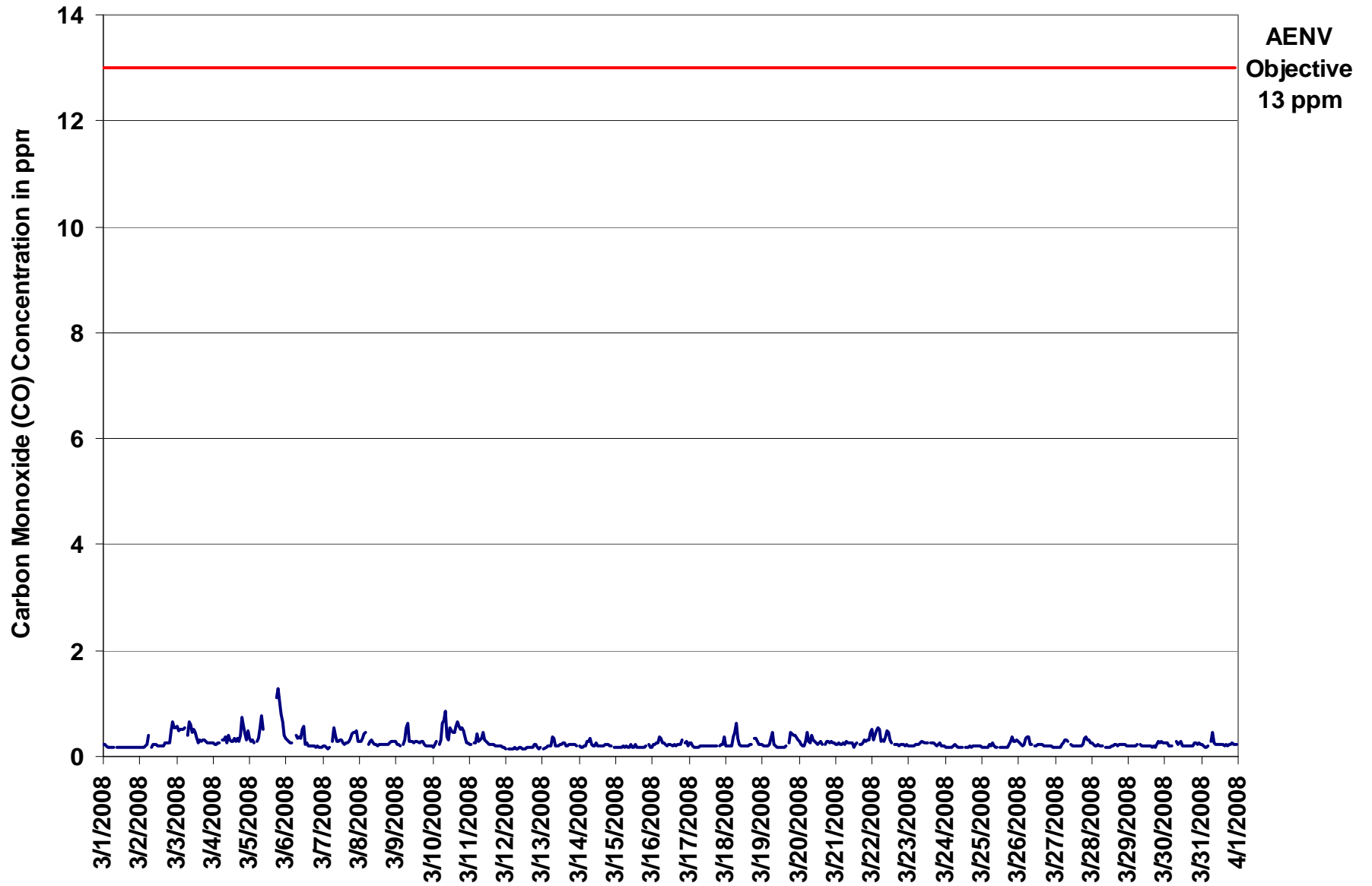


Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend

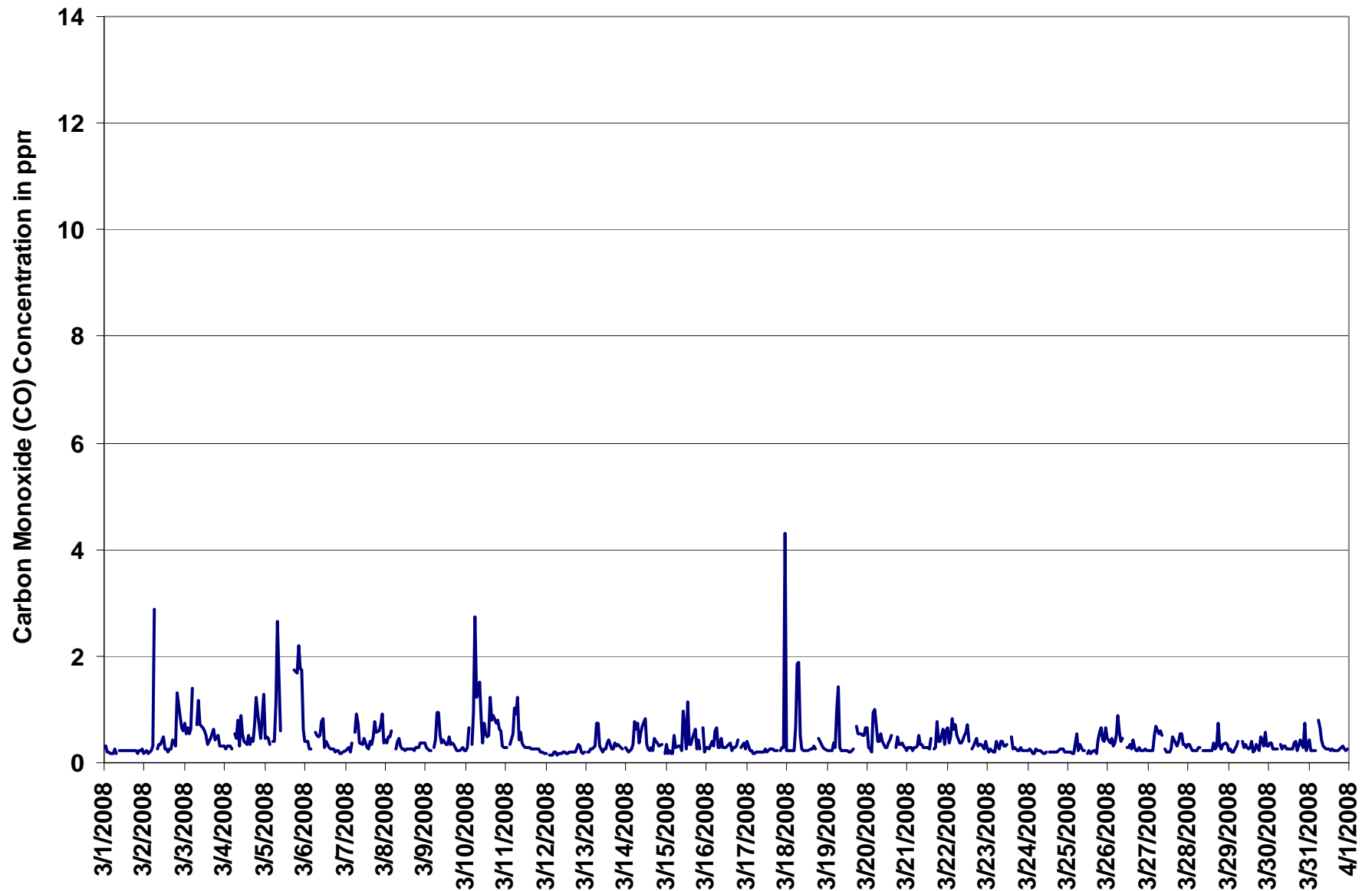
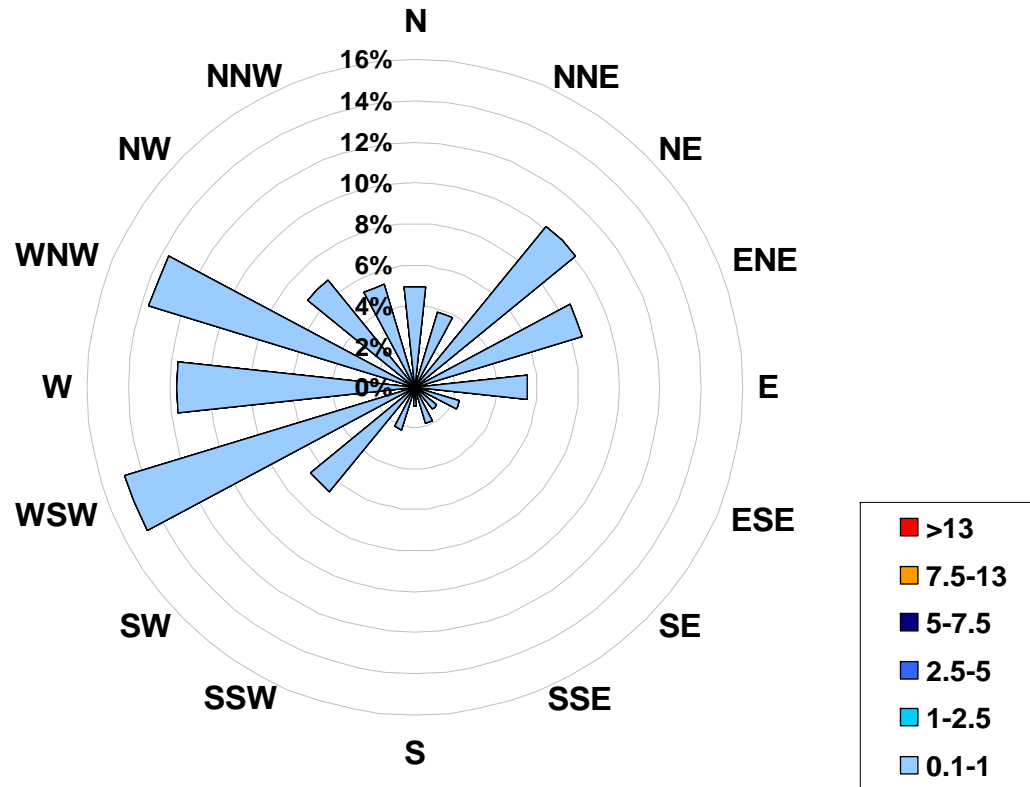


Figure 10. PASZA - Henry Pirker Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Carbon Monoxide (in ppm) Located at the Henry Pirker Site for March 2008



Calms: 0%

Frequency Distribution of CO in ppm Range			Frequency (hrs)
0.1	<	1	701
1	to	2.5	3
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
	>	13	0
Total Non-Zero Values			704

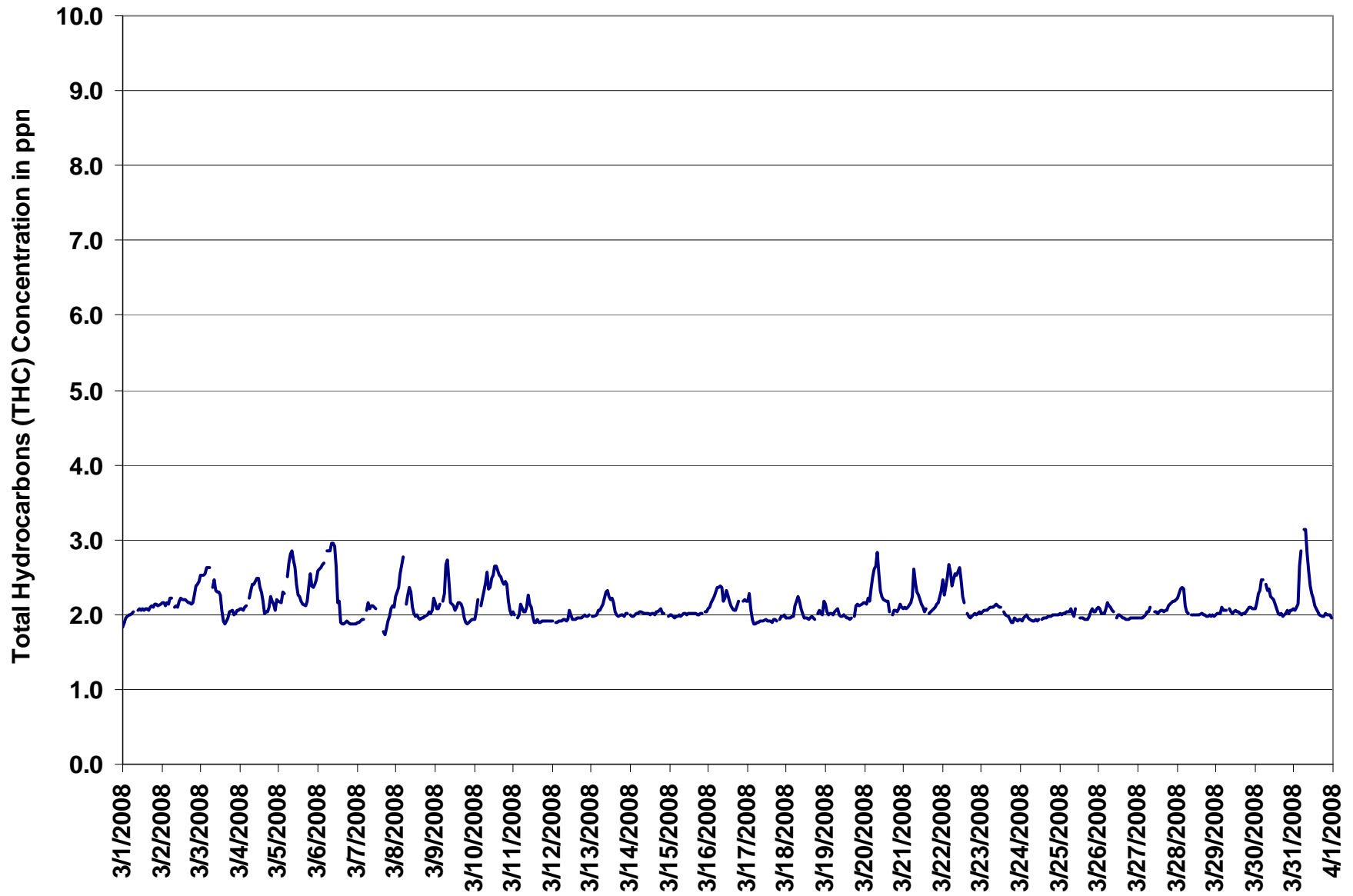


Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

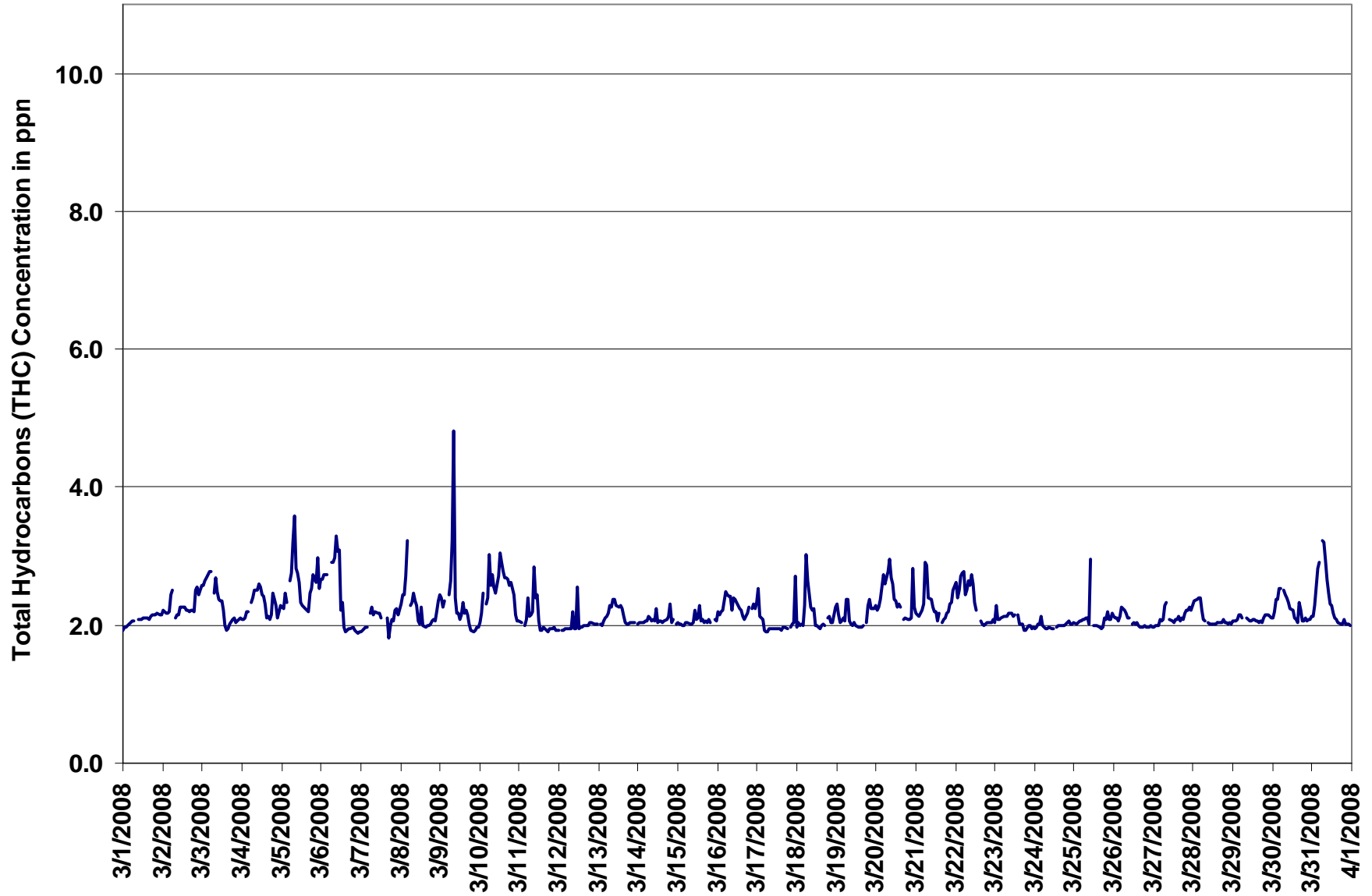
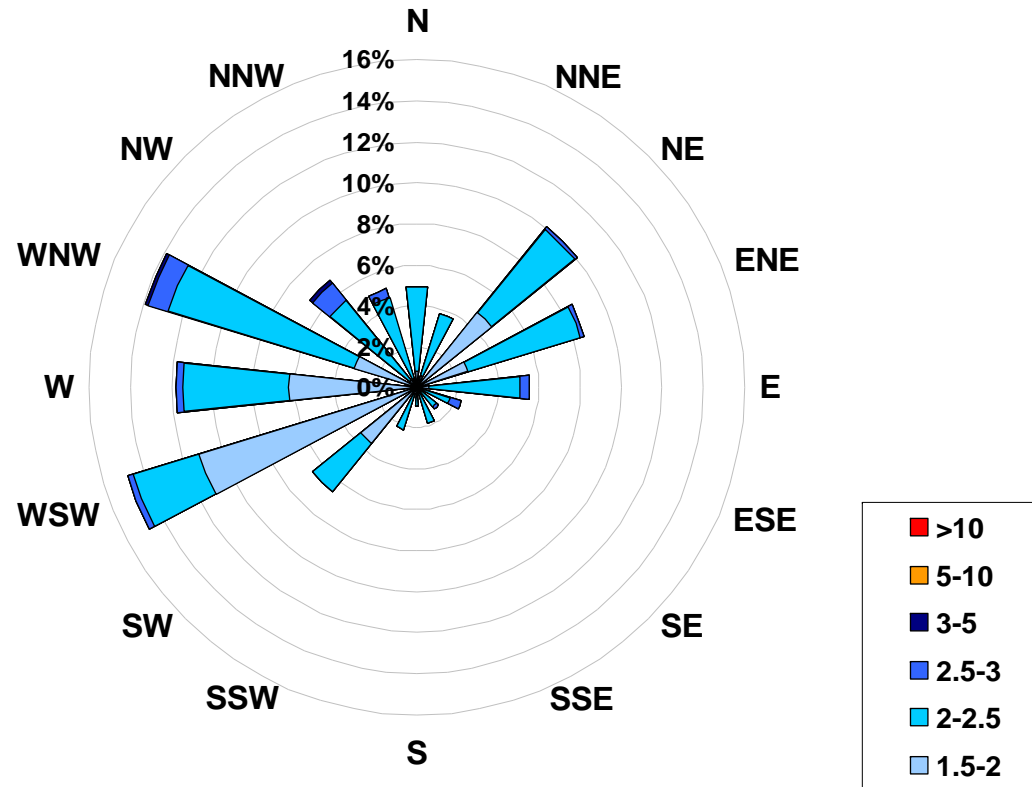


Figure 12. PASZA - Henry Pirker Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Hydrocarbons (in ppm)
Located at the Henry Pirker Site for March 2008**



Calms: 0%

Frequency Distribution of THC in ppm Range		Frequency (hrs)
1.5	< 2	229
2	to 2.5	427
2.5	to 3	49
3	to 5	2
5	to 10	0
	> 10	0
Total Non-Zero Values		709

PASZA - Henry Pirker Total Reduced Sulphur Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

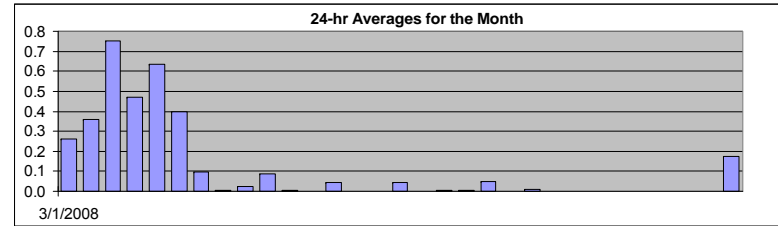
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Maximum 1-hr Average:	2.1	ppb	3-Mar	2:00 3:00
Maximum 24-hr Value:	0.8	ppb	3-Mar	



AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.0	0.6	0.1	0.0	0.0	0.0	0.0	0.1 ppb	0.0 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-Mar-08	0	0	0	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8
2-Mar-08	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.4	0.6
3-Mar-08	1	2	2	2	2	1	A	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	2.1	
4-Mar-08	0	0	0	0	0	A	0	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	0.5	0.7	
5-Mar-08	0	0	0	0	A	1	0	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0.6	1.2	
6-Mar-08	0	0	1	0	0	A	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8	
7-Mar-08	0	0	0	0	0	A	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
8-Mar-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	
9-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	
10-Mar-08	0	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.7	
11-Mar-08	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	
12-Mar-08	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
13-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.0	0.2	
14-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.0	0.0	
15-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.0	0.0	
16-Mar-08	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.0	0.5	
17-Mar-08	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	0.0	0.0	
18-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	A	0	0	0	0	0.0	0.1	
19-Mar-08	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	0.0	0.1	
20-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.0	0.3	
21-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.0	0.0	
22-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.0	0.1	
23-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
24-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
25-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
26-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
27-Mar-08	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
28-Mar-08	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
29-Mar-08	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
30-Mar-08	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
31-Mar-08	0	0	0	0	1	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.2	
Hourly Avg	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
Hourly Max	0.8	1.6	2.1	1.8	1.8	1.3	1.2	1.0	0.9	0.6	0.8	0.9	0.8	0.7	0.6	0.5	0.4	0.5	1.0	1.2	0.9	0.7	0.7	0.6				

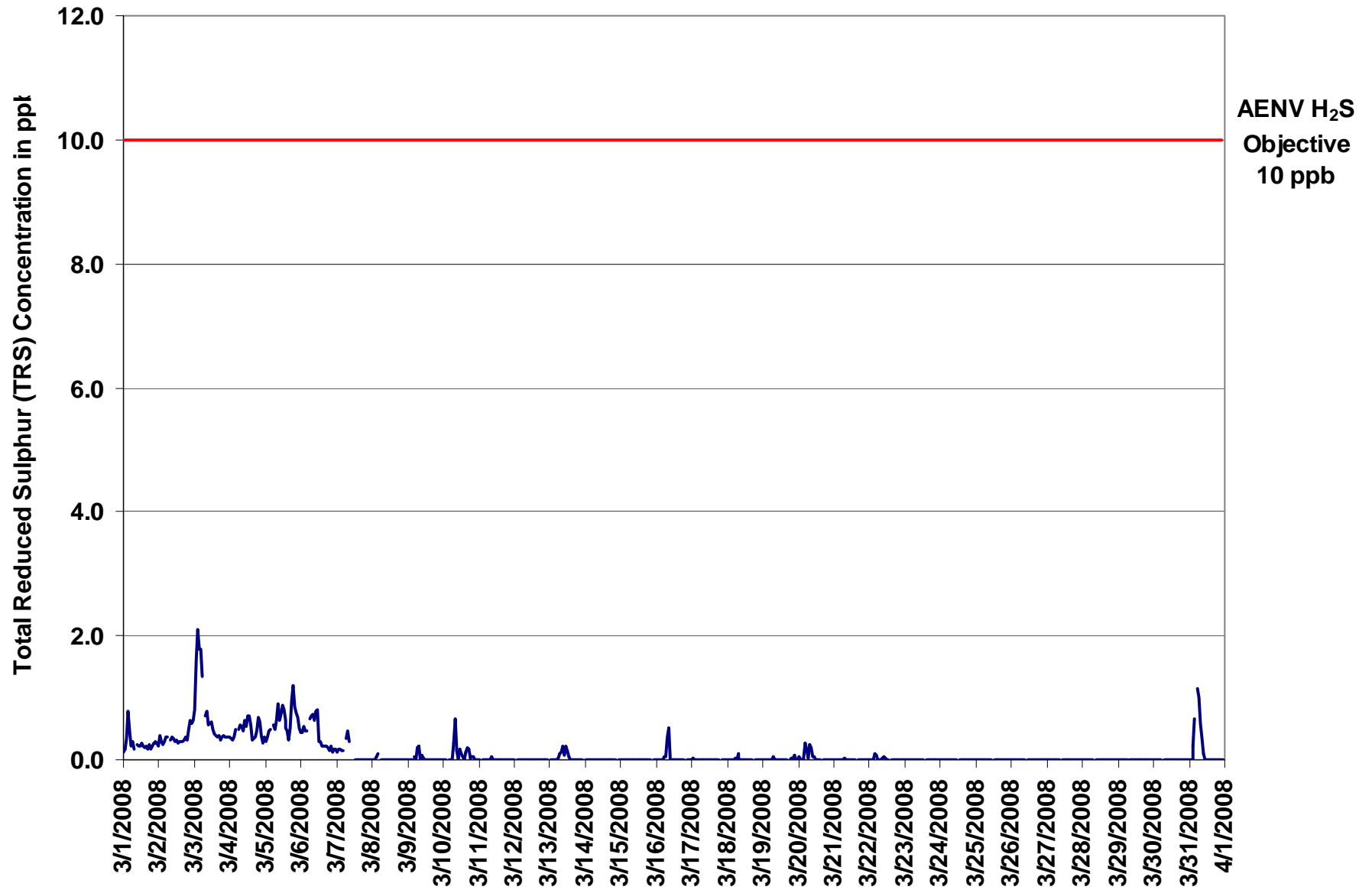


Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

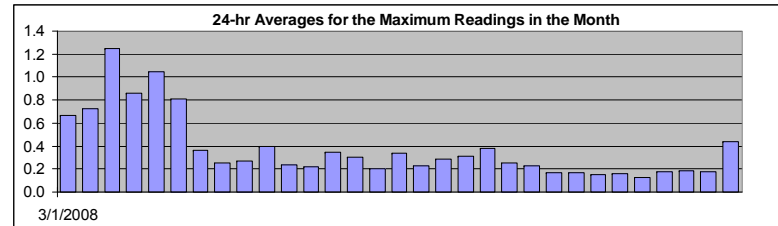
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	2.8	ppb	3-Mar	14:00 15:00
Maximum 24-hr Value:	1.3	ppb	3-Mar	



AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.9	1.0	0.5	0.3	0.2	0.1	0.0	0.4 ppb	0.3 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Mar-08	1	0	1	2	1	1	1	1	A	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1	0.7	1.6
2-Mar-08	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1
3-Mar-08	1	2	3	2	2	2	A	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1.3	2.8
4-Mar-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
5-Mar-08	1	1	1	1	A	1	1	1	2	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1.0	2.0
6-Mar-08	1	1	1	1	1	A	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0.8	1.8
7-Mar-08	0	1	0	0	0	A	1	1	1	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0.4	0.9
8-Mar-08	0	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8
9-Mar-08	0	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
10-Mar-08	0	0	0	A	0	0	0	1	1	1	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0.4	1.0
11-Mar-08	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
12-Mar-08	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
13-Mar-08	A	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.9
14-Mar-08	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	A	0	0.3	0.5
15-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.4
16-Mar-08	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	1.2
17-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.2	0.4
18-Mar-08	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.3	0.9
19-Mar-08	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	A	0	1	0	0	0	0	0.3	0.6
20-Mar-08	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.4	0.7
21-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.3	0.4
22-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.2	0.5
23-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.2	0.3
24-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
25-Mar-08	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
26-Mar-08	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
27-Mar-08	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
28-Mar-08	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
29-Mar-08	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
30-Mar-08	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
31-Mar-08	0	0	0	1	1	A	2	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.9
Hourly Avg	0.3	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3		
Hourly Max	1.4	2.2	2.6	2.3	2.4	1.9	1.9	1.3	1.5	1.8	1.2	1.4	1.1	1.1	2.8	0.7	0.8	1.0	1.5	2.0	1.3	1.2	1.0	1.1		

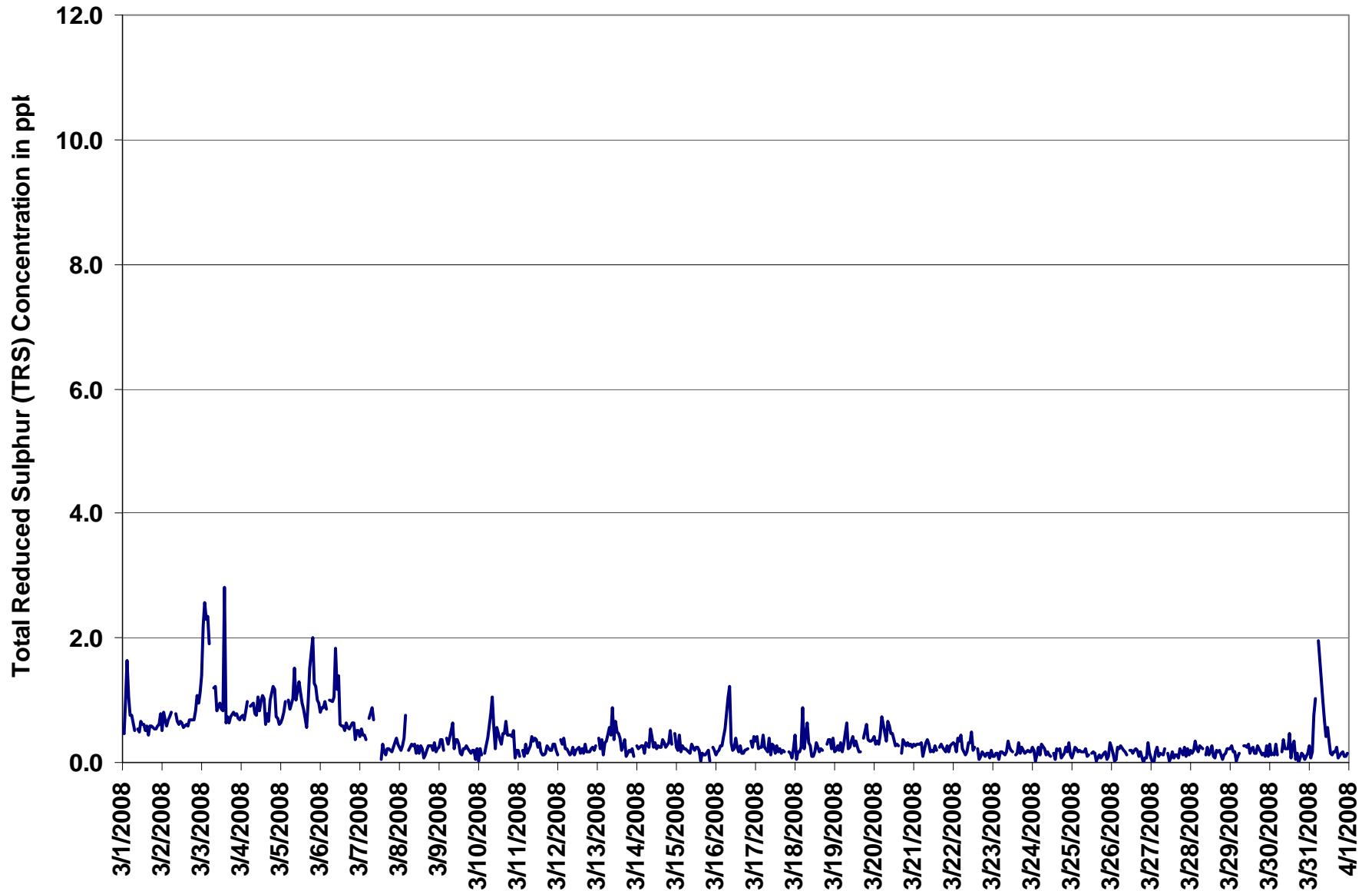
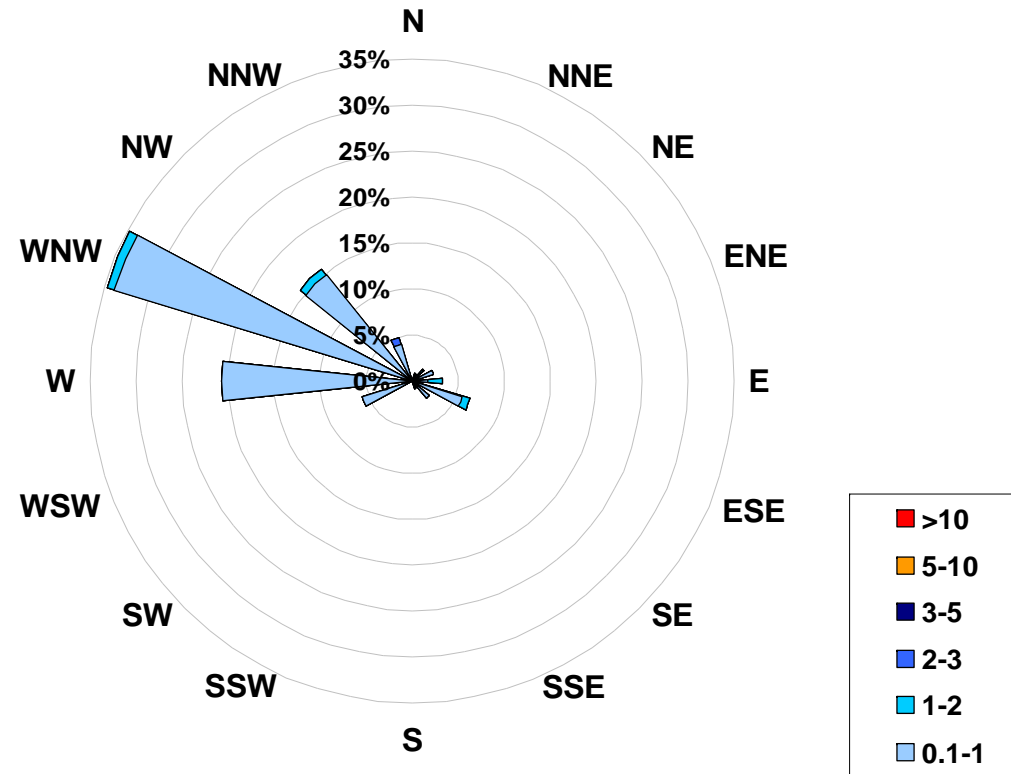


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Henry Pirker Site for March 2008**



Calms: 0%

Frequency Distribution of TRS in ppb			
Range			Frequency (hrs)
0.1	<	1	700
1	to	2	7
2	to	3	1
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			708

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

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

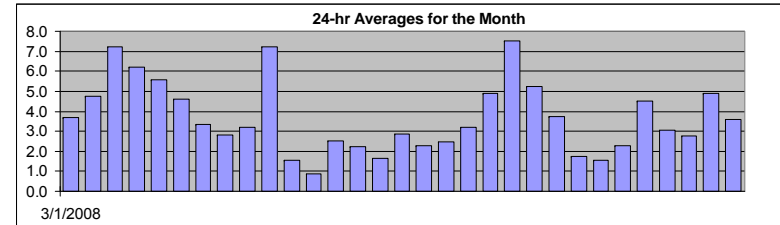
Particulate Matter (PM_{2.5})

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	20.6 µg/m³ 6-Mar 11:00 12:00
Maximum 24-hr Value:	7.5 µg/m³ 21-Mar

AIC Time:	0 hrs	Operational Time:	742 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	14.3	11.0	5.0	2.9	1.2	0.0	0.0	3.7 3 µg/m³	3.3 µg/m³



Status Flag Characters

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

Day	Mountain Standard Time																								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-Mar-08	1	12	D	2	2	3	2	3	3	3	3	4	4	3	3	5	3	4	5	5	4	5	5	4	3.7	11.7
2-Mar-08	5	3	2	2	2	4	2	1	4	2	4	3	4	5	5	3	4	5	6	4	10	12	11	12	4.8	12.2
3-Mar-08	14	12	13	13	10	9	8	6	11	10	7	11	8	6	2	0	0	1	2	4	5	6	8	8	7.2	14.0
4-Mar-08	8	6	5	4	6	5	8	8	15	12	14	6	10	7	4	1	1	1	2	8	7	3	2	6	6.2	14.7
5-Mar-08	3	1	3	2	2	0	2	7	11	11	4	7	3	5	3	4	2	7	11	13	9	7	9	7	5.6	12.7
6-Mar-08	7	5	4	3	4	5	6	7	12	9	16	21	2	3	0	1	0	0	1	0	0	0	4	1	4.6	20.6
7-Mar-08	2	0	0	0	1	0	1	3	2	4	5	7	5	0	0	1	2	2	4	5	12	10	8	5	3.3	12.4
8-Mar-08	5	5	6	7	7	4	3	3	4	4	4	1	0	0	1	1	1	1	1	1	2	1	3	3	2.8	7.2
9-Mar-08	4	1	9	1	0	3	3	4	4	3	3	3	3	6	6	5	6	6	3	0	0	1	0	0	3.2	9.4
10-Mar-08	0	1	4	3	2	2	2	6	13	6	5	12	14	13	15	17	17	14	8	8	7	3	0	0	7.2	17.5
11-Mar-08	1	0	0	3	2	4	3	4	3	8	6	3	0	0	0	0	0	0	0	1	0	0	0	0	1.5	8.0
12-Mar-08	0	0	0	0	0	0	0	0	3	2	0	0	0	1	1	1	3	3	0	6	0	0	0	1	0.9	5.6
13-Mar-08	0	0	2	2	1	3	5	6	4	3	4	4	4	6	6	2	0	4	2	0	1	2	0	0	2.5	5.9
14-Mar-08	0	0	0	0	1	2	1	2	2	3	1	4	3	3	3	3	4	5	4	4	3	4	0	0	2.2	5.0
15-Mar-08	1	1	1	0	1	2	1	1	5	2	3	1	0	3	2	3	2	1	3	2	2	3	2	0	1.6	4.5
16-Mar-08	0	2	1	2	3	4	6	9	12	2	0	1	3	0	0	0	1	4	3	3	4	3	6	2	2.9	12.2
17-Mar-08	3	5	4	2	2	0	0	0	1	2	3	3	2	4	3	4	4	4	4	2	2	1	1	1	2.3	5.2
18-Mar-08	1	0	1	1	0	2	2	3	3	1	2	2	1	1	0	2	2	3	5	4	6	4	5	9	2.5	9.1
19-Mar-08	7	4	3	4	3	1	1	2	2	1	0	0	0	0	0	0	1	0	5	10	7	10	10	5	3.2	10.3
20-Mar-08	6	4	3	2	3	8	4	6	11	8	5	4	5	9	6	2	2	6	5	3	4	5	4	4	4.9	10.9
21-Mar-08	3	4	4	3	4	5	6	7	7	7	7	6	6	8	10	8	6	7	8	11	16	13	11	13	7.5	16.4
22-Mar-08	14	2	7	7	11	8	5	10	11	11	11	14	7	4	2	0	0	0	0	1	0	0	0	1	5.2	14.4
23-Mar-08	0	2	1	2	2	2	2	5	7	6	5	4	6	5	8	8	10	10	0	0	0	D	0	0	3.7	10.5
24-Mar-08	0	0	2	0	1	2	1	2	4	3	2	1	2	3	2	3	2	2	2	3	2	2	1	0	1.8	3.9
25-Mar-08	1	0	0	1	0	0	1	2	2	1	1	0	0	0	0	0	0	1	4	5	7	1	3	5	1.6	7.4
26-Mar-08	3	1	0	1	2	2	3	4	4	2	2	1	4	3	3	3	3	2	2	2	2	1	2	2	2.3	3.9
27-Mar-08	2	1	2	2	2	3	4	5	6	7	5	4	4	4	4	4	4	5	5	8	10	7	6	4.5	9.8	
28-Mar-08	4	4	3	4	5	2	2	1	2	1	2	2	2	3	3	4	3	3	4	5	4	4	4	1	3.1	4.8
29-Mar-08	2	2	2	3	3	3	4	4	3	1	2	2	2	1	1	1	1	2	2	6	5	5	3	4	2.7	6.3
30-Mar-08	7	6	6	2	3	3	5	9	8	12	11	6	4	1	3	3	3	4	3	3	6	3	4	3	4.9	11.7
31-Mar-08	4	3	2	3	3	5	4	10	8	6	6	6	5	2	2	0	0	2	2	4	4	4	1	0	3.6	9.7
Hourly Avg	3.6	2.8	3.0	2.6	2.8	3.0	3.1	4.4	6.0	5.0	4.7	4.6	3.7	3.5	3.1	2.9	2.8	3.5	3.4	4.1	4.6	4.1	3.7	3.4		
Hourly Max	14.4	11.9	13.5	13.1	11.1	8.8	8.0	9.7	14.7	12.0	16.3	20.6	13.8	13.0	14.9	17.4	17.5	14.0	11.5	12.7	16.4	13.2	11.3	13.1		

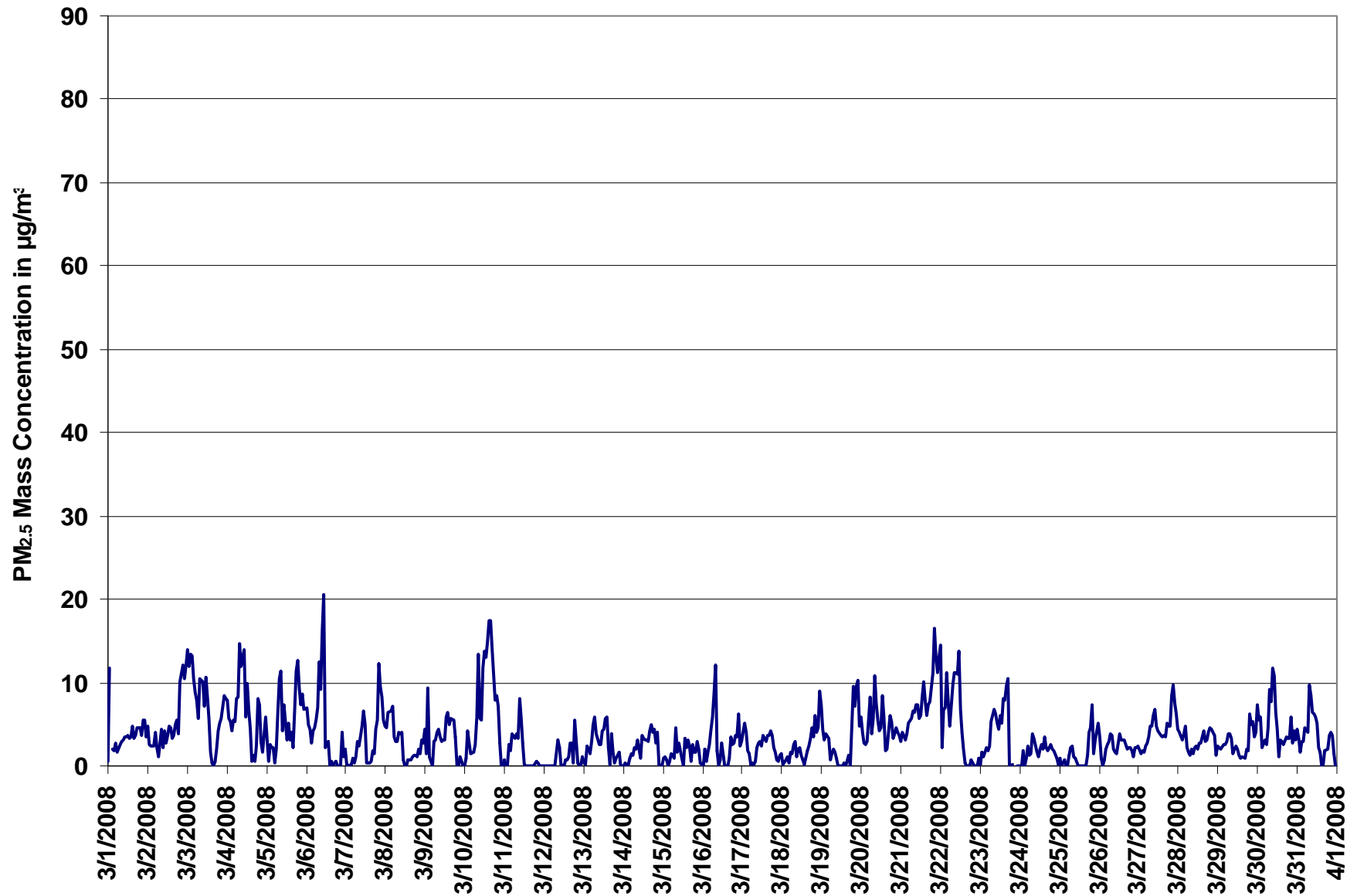


Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

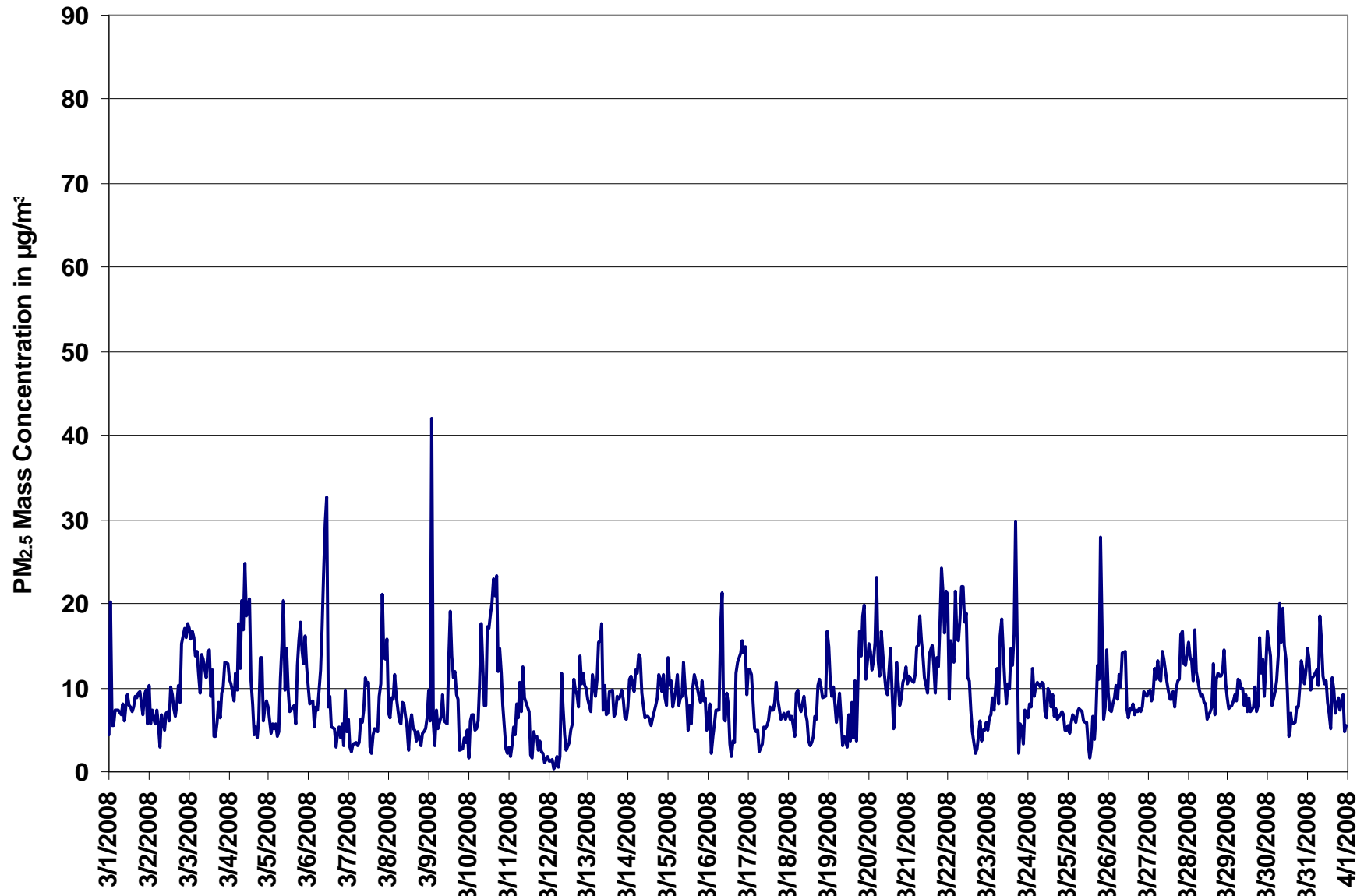
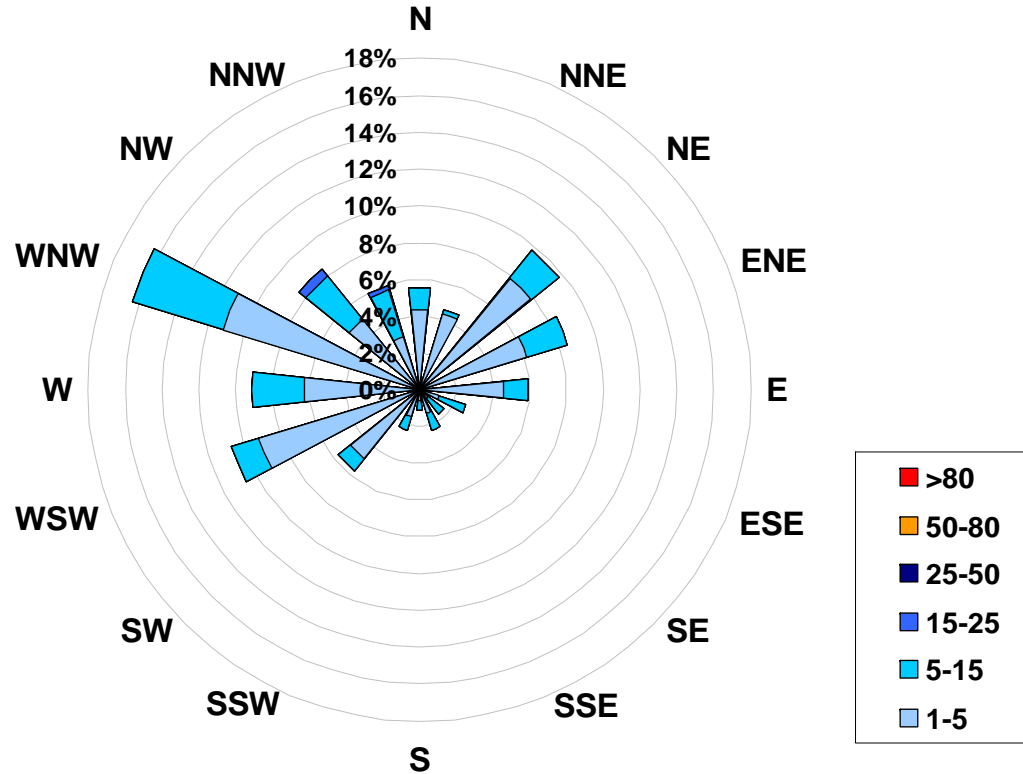


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Henry Pirker Site for March 2008



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	556
5	to	15	180
15	to	25	5
25	to	50	0
50	to	80	0
	>	80	0
Total Non-Zero Values			742

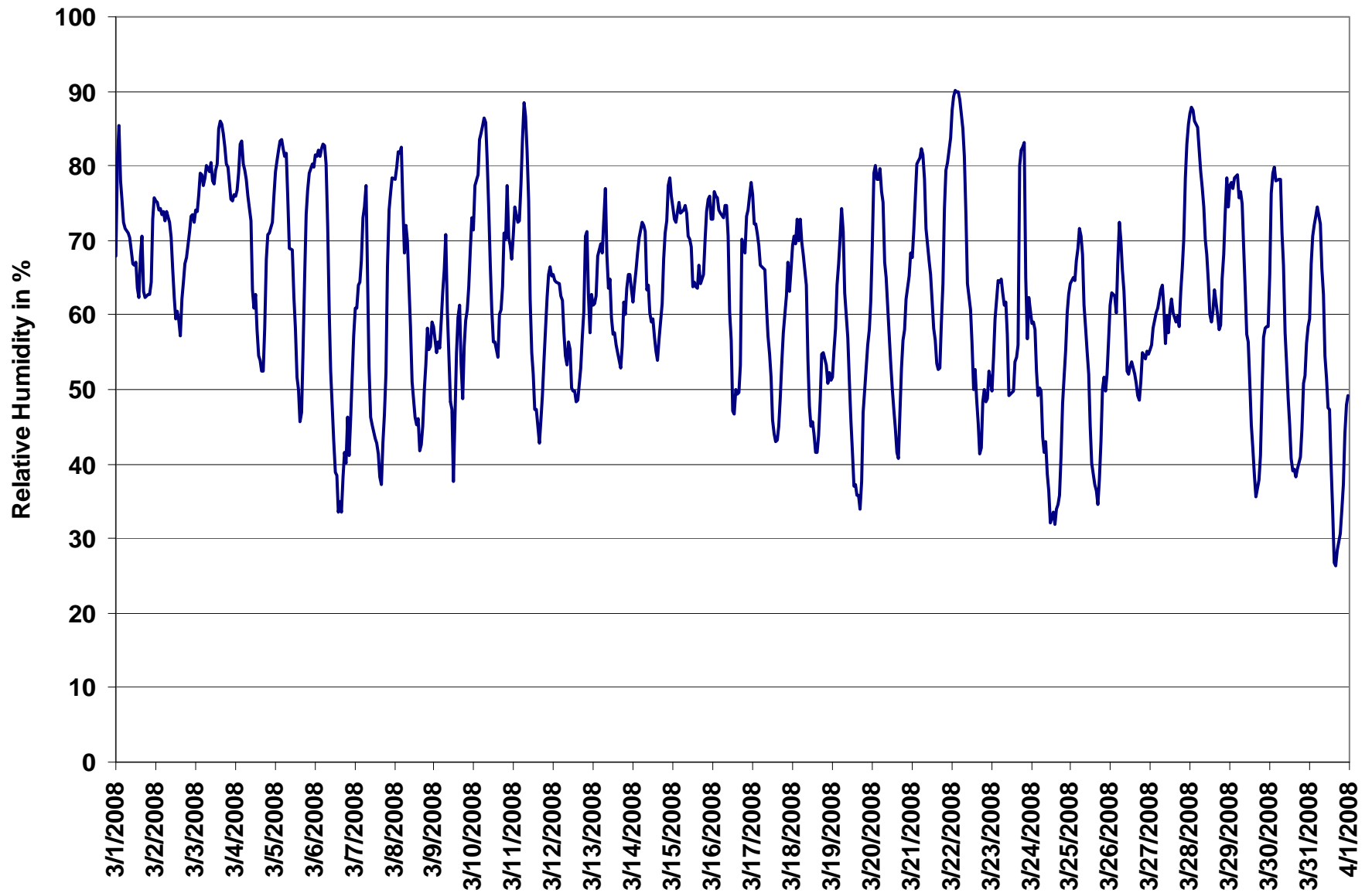


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

PASZA - Henry Pirker Temperature Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

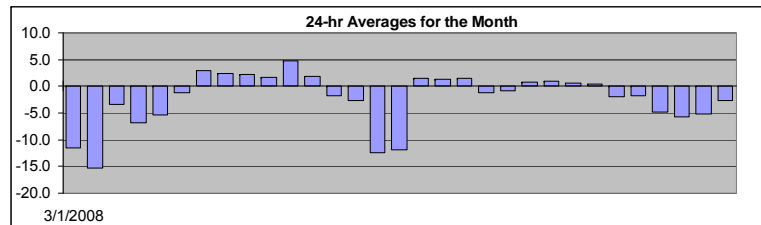
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	9.9 °C	7-Mar	16:00 17:00
Maximum 24-hr Value:	4.7 °C	11-Mar	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	9.4	6.5	2.5	-1.5	-5.9	-14.5	-21.4	-2.4 °C	-1.5 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			23:00
1-Mar-08	2	1	-3	-5	-7	-10	-11	-12	-13	-13	-13	-13	-13	-13	-13	-14	-14	-15	-15	-15	-16	-16	-17	-17	-11.5	2.1	
2-Mar-08	-17	-18	-19	-21	-22	-22	-21	-22	-20	-18	-15	-14	-13	-13	-11	-11	-12	-12	-12	-13	-12	-11	-10	-8	-15.3	-8.5	
3-Mar-08	-7	-6	-5	-5	-4	-4	-4	-5	-4	-1	0	2	2	2	1	1	-1	-1	-4	-5	-7	-8	-9	-10	-3.4	2.0	
4-Mar-08	-10	-10	-10	-11	-13	-15	-17	-18	-16	-12	-6	-5	-3	-1	3	3	3	2	0	-3	-4	-6	-6	-7	-6.7	3.4	
5-Mar-08	-9	-12	-12	-12	-12	-13	-15	-14	-12	-9	-6	-1	1	5	6	7	6	3	1	-2	-4	-6	-8	-10	-5.3	6.9	
6-Mar-08	-11	-11	-11	-12	-12	-13	-13	-15	-11	-6	-1	5	7	7	10	9	10	7	6	6	5	6	5	4	-1.2	9.8	
7-Mar-08	3	3	1	0	-1	-3	-3	-4	-1	3	6	8	9	9	9	10	10	8	6	4	1	-1	-2	-4	3.0	9.9	
8-Mar-08	-3	-4	-4	-3	-3	-1	1	0	0	3	6	9	8	8	7	8	7	6	5	3	2	1	1	0	2.3	8.5	
9-Mar-08	0	0	0	0	-1	-3	-3	-4	-1	1	3	4	9	5	5	3	5	7	5	5	5	4	3	1	2.1	9.0	
10-Mar-08	2	0	-1	-2	-3	-5	-6	-6	-4	-1	2	5	7	7	8	6	6	5	3	3	2	3	4	4	1.7	7.8	
11-Mar-08	3	3	3	3	2	1	0	1	2	4	8	10	9	10	9	9	8	7	5	4	4	3	3	3	4.7	9.6	
12-Mar-08	3	3	2	2	2	2	2	1	1	1	2	2	3	3	3	4	3	2	2	1	0	0	0	-1	1.8	3.9	
13-Mar-08	-2	-2	-3	-4	-5	-6	-7	-7	-5	-3	-2	1	2	3	3	3	3	2	0	-1	-1	-2	-3	-4	-1.7	3.2	
14-Mar-08	-4	-4	-5	-5	-6	-6	-6	-6	-3	-3	-1	0	0	1	2	2	1	0	-2	-3	-3	-3	-5	-6	-2.7	2.0	
15-Mar-08	-8	-9	-10	-10	-11	-12	-13	-13	-13	-13	-13	-13	-13	-11	-11	-12	-12	-12	-13	-14	-14	-15	-15	-16	-15	-12.5	-7.7
16-Mar-08	-17	-18	-21	-21	-22	-23	-24	-22	-17	-15	-12	-10	-5	-5	-5	-4	-3	-4	-8	-6	-6	-7	-6	-6	-11.9	-2.9	
17-Mar-08	-7	-5	-5	-3	0	1	1	1	2	3	4	5	5	6	6	6	6	5	3	2	1	0	0	0	1.5	5.8	
18-Mar-08	-1	-2	-2	-2	-3	-3	-3	-3	-2	2	4	5	5	5	6	6	6	5	2	1	1	1	1	0	1.3	6.1	
19-Mar-08	-1	-1	-1	-2	-2	-2	-3	-2	0	2	3	4	5	6	6	6	6	5	4	2	1	0	0	-1	1.5	6.4	
20-Mar-08	-3	-6	-7	-7	-7	-7	-8	-9	-4	-1	2	3	3	5	5	6	5	4	2	1	0	-1	-1	-3	-1.1	5.5	
21-Mar-08	-3	-4	-5	-6	-7	-8	-7	-7	-5	-2	1	2	3	4	5	5	5	5	3	2	1	0	0	-2	-0.8	5.3	
22-Mar-08	-2	-3	-4	-4	-5	-6	-8	-8	-6	-1	3	5	6	7	7	8	7	7	5	4	3	2	2	1	0.8	7.7	
23-Mar-08	1	1	0	-1	-1	-1	-1	-1	-1	0	1	4	4	5	5	6	5	1	1	0	0	0	-1	-3	0.9	5.6	
24-Mar-08	-3	-3	-4	-3	-3	-3	-4	-2	0	2	3	4	5	5	5	5	4	4	3	1	0	-1	-2	-2	0.5	5.4	
25-Mar-08	-3	-3	-3	-3	-3	-4	-4	-2	0	1	2	3	4	4	5	5	6	5	3	1	0	-1	-2	-3	0.3	5.6	
26-Mar-08	-4	-5	-5	-5	-6	-7	-7	-6	-4	-2	-1	0	2	2	3	3	2	2	0	-1	-1	-1	-2	-2	-1.8	2.6	
27-Mar-08	-2	-2	-3	-3	-4	-4	-4	-4	-3	-1	-1	0	0	0	1	2	1	1	0	-1	-2	-3	-5	-6	-1.7	1.6	
28-Mar-08	-7	-7	-8	-8	-7	-6	-6	-7	-6	-5	-4	-3	-2	-1	-2	-3	-3	-3	-4	-4	-5	-5	-5	-6	-4.9	-1.4	
29-Mar-08	-7	-7	-8	-8	-9	-10	-10	-8	-7	-5	-5	-4	-3	-3	-2	-2	-2	-2	-3	-5	-6	-7	-8	-8	-5.7	-1.7	
30-Mar-08	-9	-11	-12	-13	-14	-14	-14	-11	-8	-5	-3	-1	1	2	2	3	2	1	0	-2	-3	-4	-5	-6	-5.1	2.7	
31-Mar-08	-6	-8	-10	-11	-11	-12	-12	-9	-6	-2	0	2	4	5	5	4	4	3	1	0	-1	-2	-3	-3	-2.6	5.0	
Hourly Avg	-4.2	-4.8	-5.6	-6.0	-6.5	-7.1	-7.5	-7.2	-5.3	-3.1	-1.0	0.5	1.6	2.2	2.7	2.7	2.4	1.5	0.1	-1.0	-1.9	-2.6	-3.1	-3.9			
Hourly Max	3.4	3.1	3.2	3.0	2.1	1.8	1.6	1.4	2.3	3.9	7.6	9.6	9.6	9.3	9.6	9.8	9.6	9.9	7.7	6.2	6.2	5.2	5.8	5.2	3.8		

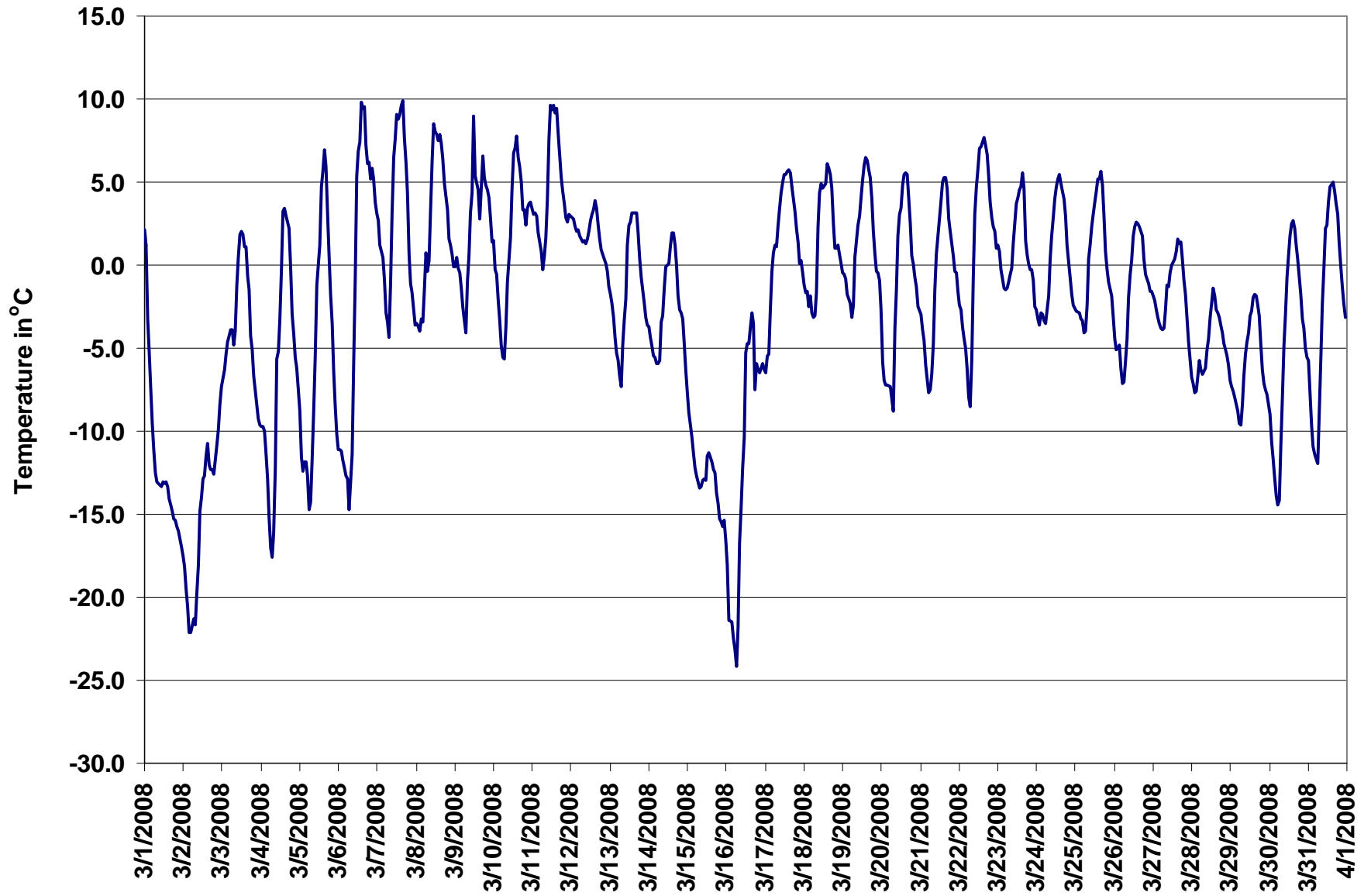


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

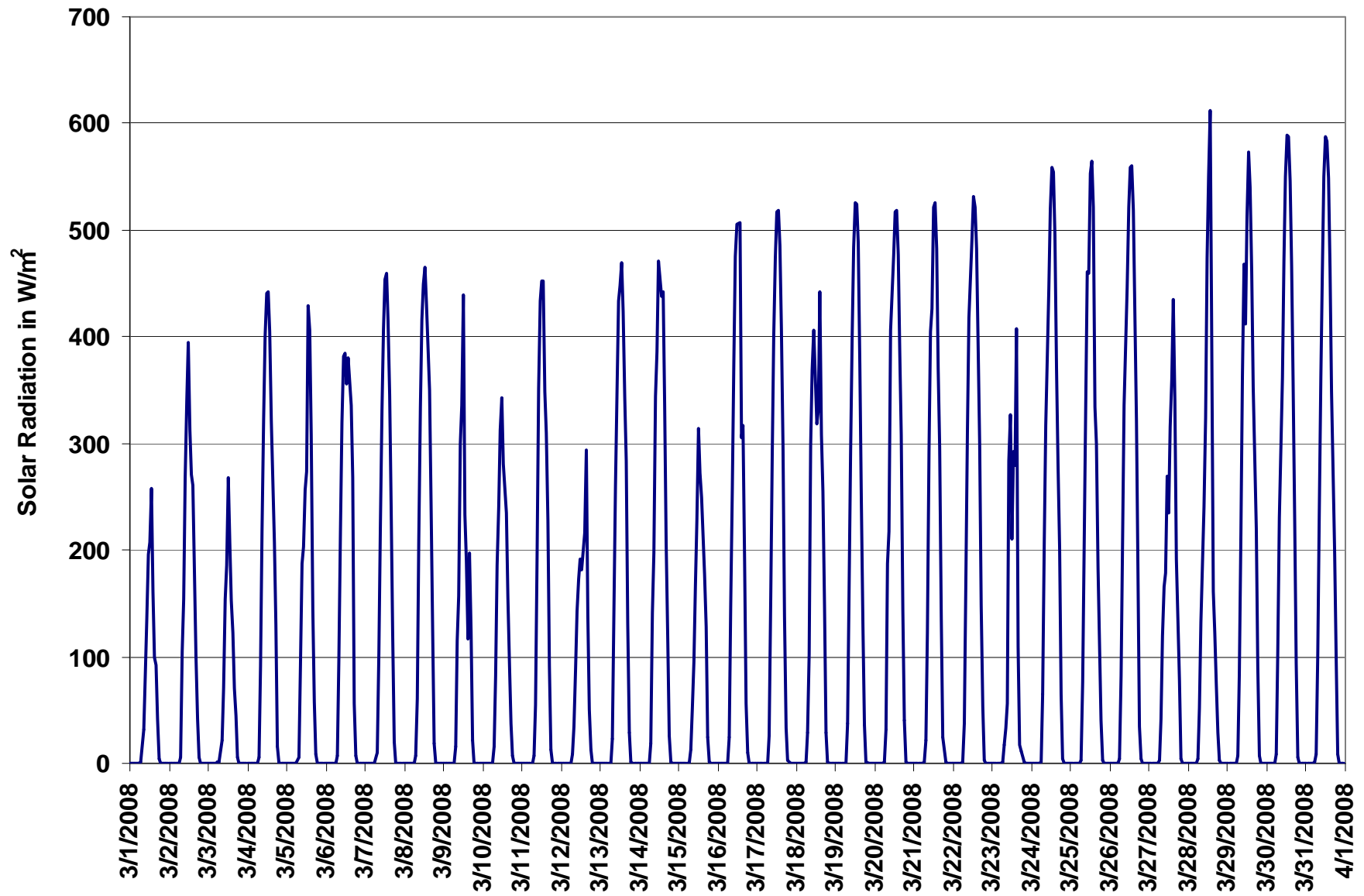


Figure 19. PASZA - Henry Pirker Solar Radiation 1-hr Average Monthly Trend

PASZA - Henry Pirker Scalar Wind Speed Monthly Summary

HOURLY AVERAGE TABLE

Wind Speed (WSs)

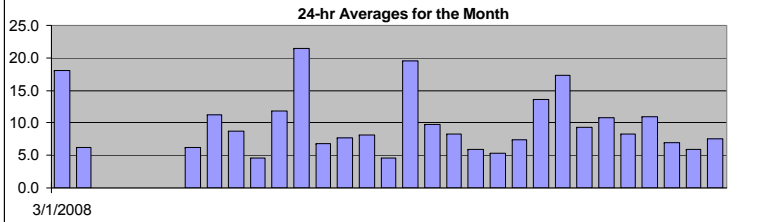
Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	37.1	km/hr	12-Mar	8:00 9:00
Maximum 24-hr Value:	21.4	km/hr	12-Mar	

Calm Time:	0 hrs	0% calms	Operational Time:	688 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	92.5%				
Percentile	99	95	75	50	25	5	1	AverageS
	30.3	23.8	12.9	7.4	5.0	3.2	2.3	9.7 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Mar-08	5	27	24	21	19	22	22	19	16	17	20	22	21	23	21	21	19	18	14	11	12	12	13	13	18.1	27.2	
2-Mar-08	14	13	8	6	4	3	5	8	7	6	5	7	7	7	7	6	6	5	4	3	4	4	5	6.3	13.8		
3-Mar-08	4	3	3	3	4	4	3	4	4	3	3	3	6	6	6	6	N	N	N	N	N	N	N	N	N	6.2	
4-Mar-08	N	N	N	N	N	N	N	N	N	N	N	N	N	6	7	11	9	N	N	N	7	4	3	N	N	11.1	
5-Mar-08	N	N	N	N	N	N	N	N	N	N	N	3	2	6	6	3	N	N	N	N	N	N	N	N	N	6.2	
6-Mar-08	N	N	N	N	N	N	N	N	N	N	N	N	N	7	12	16	21	19	19	21	24	21	33	30	15	N	32.8
7-Mar-08	13	9	15	14	9	4	4	4	5	3	3	4	6	7	7	5	5	7	6	5	5	3	4	4	6.3	15.3	
8-Mar-08	4	2	2	3	4	7	7	5	7	11	12	15	22	22	24	24	23	19	17	12	4	6	8	8	11.2	24.1	
9-Mar-08	7	10	7	10	8	5	3	2	4	6	5	7	5	7	8	8	4	7	13	18	23	24	13	6	8.7	23.6	
10-Mar-08	6	5	5	4	4	3	3	4	3	4	4	3	4	4	5	6	5	4	5	3	5	6	8	6	4.5	7.6	
11-Mar-08	9	9	9	7	3	5	6	11	6	4	5	8	15	14	14	14	21	21	19	17	16	13	15	23	11.8	22.9	
12-Mar-08	21	21	21	24	26	25	25	31	37	30	29	31	24	23	27	27	19	16	14	7	6	10	13	6	21.4	37.1	
13-Mar-08	7	7	5	4	4	5	5	5	7	8	7	6	7	6	7	8	8	8	8	8	8	8	8	7	6.8	8.4	
14-Mar-08	7	6	6	5	5	6	6	6	6	8	8	8	10	7	7	7	9	10	12	9	9	8	9	11	7.7	12.4	
15-Mar-08	9	8	9	9	9	8	8	8	7	8	10	12	9	9	9	9	12	10	10	10	5	3	3	4	8.2	11.8	
16-Mar-08	3	4	3	2	2	3	4	5	3	5	6	7	4	5	6	7	7	7	6	4	5	4	3	4	4.6	7.3	
17-Mar-08	2	3	6	15	21	23	24	23	22	28	26	27	30	33	33	29	26	18	18	20	19	10	8	4	19.5	33.0	
18-Mar-08	5	5	7	5	9	6	6	7	8	6	12	19	20	18	17	17	16	11	8	6	7	9	8	6	9.8	19.7	
19-Mar-08	7	7	4	6	6	7	3	7	7	9	17	18	19	18	14	10	11	4	4	4	4	5	5	3	8.3	19.1	
20-Mar-08	5	4	5	5	4	4	7	4	3	5	6	6	8	7	7	8	8	10	7	6	7	7	5	6	5.9	9.8	
21-Mar-08	5	3	3	5	6	5	6	5	5	6	6	7	7	7	7	6	6	4	4	6	4	3	3	3	5.3	7.3	
22-Mar-08	4	2	4	3	3	2	4	4	4	3	4	6	8	8	9	9	12	11	13	14	13	14	13	11	7.4	14.1	
23-Mar-08	13	13	13	13	13	16	17	14	8	10	15	13	11	14	14	14	14	27	20	12	8	13	15	6	13.6	26.5	
24-Mar-08	7	6	7	10	7	8	11	14	20	22	28	27	30	30	30	30	28	26	19	13	14	10	9	9	17.2	30.3	
25-Mar-08	10	11	11	8	9	7	9	6	7	14	18	15	16	14	11	9	7	10	6	6	5	5	5	4	9.4	17.8	
26-Mar-08	4	4	6	5	3	3	5	6	9	9	14	16	12	13	15	15	15	16	15	14	15	15	14	14	10.7	15.6	
27-Mar-08	14	15	14	13	11	8	7	5	3	4	10	10	11	11	10	10	9	7	7	5	5	4	4	4	8.3	14.7	
28-Mar-08	4	5	6	7	8	10	14	13	13	14	15	17	17	16	17	14	12	11	9	10	8	7	7	8	11.0	17.3	
29-Mar-08	6	7	7	8	8	7	6	5	8	9	10	8	8	9	9	8	8	7	6	5	5	4	6	6	7.0	9.8	
30-Mar-08	2	3	4	4	5	4	4	4	6	4	5	6	8	7	8	10	10	10	9	7	5	6	6	4	5.9	10.1	
31-Mar-08	6	7	7	6	4	7	5	3	5	5	7	8	9	9	8	9	11	8	7	9	10	12	10	9	7.6	11.7	
1-hr Average	7.3	7.9	7.9	8.0	7.7	7.8	8.2	8.3	8.6	9.4	11.0	11.6	12.0	12.2	12.4	12.4	12.4	12.0	10.8	9.6	9.0	9.1	8.7	7.4			
Hourly Max	21.3	27.2	24.4	24.0	26.4	25.0	25.2	30.9	37.1	30.0	28.8	31.0	30.2	33.0	32.6	30.3	27.8	26.5	21.3	23.9	23.3	32.8	30.4	22.9			

PASZA - Henry Pirker Vector Wind Speed Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

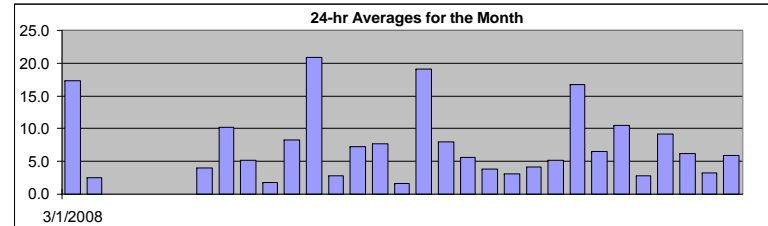
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	37.0	km/hr	12-Mar	8:00 9:00
Maximum 24-hr Value:	20.9	km/hr	12-Mar	



Calm Time:	0 hrs	0% calms	Operational Time:	688 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	92.5%				
Percentile	99	95	75	50	25	5	1	Average V
	30.0	23.7	12.7	7.0	4.5	2.1	0.9	15.9 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max			
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00	23:00	0:00
1-Mar-08	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		17.3	26.3	
2-Mar-08	5	26	24	21	19	22	22	19	16	17	20	21	21	23	21	21	19	18	14	11	12	12	13	13			2.5	13.6	
3-Mar-08	14	13	8	6	3	2	5	8	7	6	4	7	6	6	7	7	6	6	4	3	1	4	4	4			N	6.2	
4-Mar-08	3	3	2	2	4	3	2	3	3	1	3	3	6	6	6	6	N	N	N	N	N	N	N	N	N			N	11.0
5-Mar-08	N	N	N	N	N	N	N	N	N	N	N	2	2	6	6	3	N	N	N	N	N	N	N	N	N			N	6.1
6-Mar-08	N	N	N	N	N	N	N	N	N	N	N	N	N	7	12	16	21	18	19	21	24	21	32	29	15			N	32.4
7-Mar-08	13	9	15	14	8	3	4	2	4	3	2	4	6	6	6	4	3	7	6	3	5	2	4	4			4.1	15.2	
8-Mar-08	3	1	1	1	3	7	6	4	7	11	12	15	22	22	24	24	23	19	17	12	3	6	8	8			10.3	23.9	
9-Mar-08	7	10	7	10	8	4	2	1	3	5	5	7	2	7	8	7	3	7	13	18	23	23	13	5			5.2	23.5	
10-Mar-08	6	3	2	2	1	1	3	3	2	4	3	3	4	3	4	6	5	3	4	2	3	6	7	6			1.8	7.4	
11-Mar-08	9	9	9	7	1	2	5	9	5	4	3	8	14	14	14	14	21	21	19	17	16	12	14	23			8.2	22.8	
12-Mar-08	21	21	21	24	26	25	25	31	37	30	29	31	24	23	27	27	19	16	14	7	5	9	13	4			20.9	37.0	
13-Mar-08	7	6	5	4	4	5	5	4	6	7	7	6	6	6	6	7	8	8	8	8	8	8	8	7			2.8	8.4	
14-Mar-08	7	6	6	5	5	6	6	6	6	8	7	7	9	7	6	6	8	10	12	9	8	8	8	11			7.2	12.3	
15-Mar-08	9	8	8	8	9	8	7	8	7	8	9	11	9	8	9	9	11	10	10	9	4	3	2	4			7.7	11.5	
16-Mar-08	3	2	3	1	1	3	3	5	3	5	4	6	2	5	5	7	7	4	5	3	4	3	2	4			1.6	7.1	
17-Mar-08	1	2	4	15	21	23	24	23	22	28	26	27	29	33	33	29	25	18	17	20	19	9	8	2			19.0	32.9	
18-Mar-08	5	3	6	3	9	5	6	5	7	5	11	19	20	17	17	17	16	11	8	5	7	9	8	6			8.0	19.6	
19-Mar-08	7	7	3	4	0	7	1	5	7	9	17	18	19	18	13	9	10	2	3	4	3	4	3	1			5.6	18.8	
20-Mar-08	4	4	4	5	2	3	6	4	3	4	5	6	7	6	7	7	8	10	7	6	7	6	4	5			3.8	9.6	
21-Mar-08	4	2	3	4	6	5	5	5	5	5	6	6	7	6	6	6	6	6	2	1	5	3	0	2			3.1	6.8	
22-Mar-08	4	1	3	3	2	1	4	4	4	3	4	6	7	7	8	9	12	11	12	13	13	14	13	11			4.2	14.0	
23-Mar-08	13	13	13	13	13	16	17	13	7	10	15	13	11	14	13	14	13	26	19	11	8	13	15	5			5.1	26.0	
24-Mar-08	7	3	6	10	7	7	11	14	20	22	28	26	30	30	30	30	28	25	19	13	14	10	9	9			16.8	30.2	
25-Mar-08	10	11	11	8	8	7	8	5	6	14	18	14	16	14	11	8	7	10	5	5	5	5	4	4			6.5	17.5	
26-Mar-08	4	3	5	5	3	3	5	6	9	9	14	15	12	13	15	15	15	15	15	14	15	15	15	14			10.5	15.4	
27-Mar-08	14	15	14	12	11	8	7	4	2	3	9	10	10	10	9	9	9	7	7	5	3	3	3	3			2.8	14.6	
28-Mar-08	3	5	5	7	8	10	14	13	13	14	14	17	17	16	16	12	12	11	9	10	8	7	6	7			9.1	17.1	
29-Mar-08	6	6	7	8	8	7	5	5	7	9	9	7	7	7	7	6	7	6	6	5	5	4	6	6			6.2	9.2	
30-Mar-08	1	3	4	4	5	3	4	1	6	2	4	4	6	6	7	10	10	10	9	7	5	6	5	3			3.2	9.8	
31-Mar-08	4	6	6	6	4	7	5	3	5	5	7	7	8	8	7	7	10	8	7	9	10	12	10	9			5.9	11.6	
1-hr Vector	0.8	2.2	2.2	2.2	2.1	2.9	3.1	3.1	3.5	4.3	5.5	6.8	7.7	7.6	7.8	7.0	6.1	5.3	4.8	2.8	2.8	2.5	2.2	1.0					
Hourly Max	21.2	26.3	24.1	23.9	26.4	24.9	25.1	30.8	37.0	29.8	28.6	30.9	30.0	32.9	32.6	30.2	27.7	26.0	21.2	23.8	23.3	32.4	29.4	22.8					

PASZA - Henry Pirker Wind Direction Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

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Calm Time: 0 hrs	0% calms	Operational Time: 688 hrs
Calibration Time: 0 hrs		AMD Operational Uptime: 92.5%
Percentile	99 95 75 50 25 5 1	Average
	358.7 339.9 289.6 242.8 77.3 27.2 4.4	281 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Mar-08	74	254	297	298	295	293	297	298	287	291	296	299	299	301	295	294	298	302	303	304	303	303	301	304	296	296	WNW
2-Mar-08	295	293	302	321	304	39	77	77	89	95	77	303	283	301	272	282	283	312	313	312	28	140	117	151	314	314	NW
3-Mar-08	114	109	348	49	100	100	294	303	326	117	274	287	316	322	275	273	N	N	N	N	N	N	N	N	N	N	-
4-Mar-08	N	N	N	N	N	N	N	N	N	N	N	N	N	278	253	271	279	N	N	N	277	268	278	N	N	N	-
5-Mar-08	N	N	N	N	N	N	N	N	N	N	N	290	290	290	274	290	311	N	N	N	N	N	N	N	N	N	-
6-Mar-08	N	N	N	N	N	N	N	N	N	N	N	N	274	267	269	265	257	264	266	262	266	249	254	288	N	N	-
7-Mar-08	276	256	275	276	287	298	325	331	288	314	274	270	270	300	305	348	73	90	99	124	315	342	303	303	293	293	WNW
8-Mar-08	352	278	325	66	145	245	240	233	226	227	227	239	246	264	264	250	249	246	244	235	207	250	238	220	245	245	WSW
9-Mar-08	202	201	186	192	198	163	89	109	102	115	100	110	128	305	302	301	312	235	243	244	242	243	256	295	231	231	SW
10-Mar-08	257	151	44	154	347	299	293	321	282	290	268	255	282	277	297	323	339	345	8	236	359	58	67	78	328	328	NNW
11-Mar-08	77	64	77	82	70	250	297	287	281	205	236	227	264	266	264	261	263	263	257	253	240	228	233	240	254	254	WSW
12-Mar-08	243	241	241	241	242	243	241	242	242	257	263	257	250	247	262	261	264	265	279	307	276	257	240	275	252	252	WSW
13-Mar-08	275	278	271	246	220	244	271	291	305	298	269	273	276	332	341	10	38	47	62	66	56	58	55	53	338	338	NNW
14-Mar-08	47	41	47	51	44	31	41	45	43	359	28	16	8	28	51	25	20	13	350	360	338	6	41	42	24	24	NNE
15-Mar-08	40	38	34	40	43	36	30	37	28	17	1	356	17	8	9	359	347	356	354	352	43	35	33	67	18	18	NNE
16-Mar-08	68	341	336	52	87	153	141	121	109	109	114	275	307	34	62	80	74	69	302	104	282	338	327	288	53	53	NE
17-Mar-08	190	194	280	234	238	246	244	241	239	242	243	242	257	261	262	260	259	253	246	244	244	234	213	281	248	248	WSW
18-Mar-08	231	241	231	285	228	149	143	134	150	190	229	243	243	251	257	254	263	276	282	238	222	220	224	184	236	236	SW
19-Mar-08	183	205	221	195	158	229	346	251	243	248	246	248	255	245	278	299	288	353	66	67	72	144	258	166	247	247	WSW
20-Mar-08	321	312	287	297	31	329	311	302	303	307	258	299	327	359	6	23	53	61	49	42	46	62	65	25	1	1	N
21-Mar-08	50	359	347	296	316	295	304	337	295	278	268	275	323	333	0	51	44	83	71	236	317	292	343	167	327	327	NNW
22-Mar-08	206	192	149	117	98	297	303	300	298	249	248	303	344	27	24	43	49	50	64	76	78	80	89	91	56	56	NE
23-Mar-08	96	98	97	93	93	91	95	99	85	66	84	88	66	67	61	48	55	265	290	293	233	245	237	245	81	81	E
24-Mar-08	259	290	179	203	205	245	229	222	241	244	245	247	245	245	243	243	243	243	237	233	236	231	231	228	239	239	WSW
25-Mar-08	228	227	235	257	252	289	252	237	269	256	259	282	303	307	298	297	272	279	299	60	73	85	79	45	273	273	W
26-Mar-08	37	52	68	62	47	58	47	51	56	64	74	73	49	45	44	37	41	48	53	52	58	63	60	66	55	55	NE
27-Mar-08	66	71	75	72	72	84	80	57	80	206	235	227	239	274	323	346	338	342	333	82	63	347	357	278	32	32	NNE
28-Mar-08	328	311	310	317	309	309	299	299	292	281	292	283	295	292	289	326	341	359	5	347	19	21	46	41	315	315	NW
29-Mar-08	19	8	2	359	349	19	44	39	58	81	75	46	15	24	10	2	348	0	2	39	35	54	60	69	27	27	NNE
30-Mar-08	72	308	302	285	305	280	304	286	148	151	133	111	88	94	51	35	46	52	48	59	55	54	19	12	50	50	NE
31-Mar-08	2	325	306	314	311	302	302	309	309	273	269	255	299	292	260	259	251	236	219	202	224	231	230	219	265	265	W
Hourly Avg	306	268	297	278	271	275	283	276	264	259	258	266	280	287	291	295	298	296	299	285	283	261	263	292			

PASZA - Henry Pirker Standard Deviation of Wind Direction Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Calm Time: 0 hrs 0% calms		Operational Time: 688 hrs					
Calibration Time: 0 hrs		AMD Operational Uptime: 92.5%					
Percentile	99	95	75	50	25	5	1
	84.1	65.3	28.9	16.1	8.4	4.7	3.8

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	688 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	92.5%			
Percentile	99	95	75	50	25	5	1
	84.1	65.3	28.9	16.1	8.4	4.7	3.8

Status Flag Characters

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

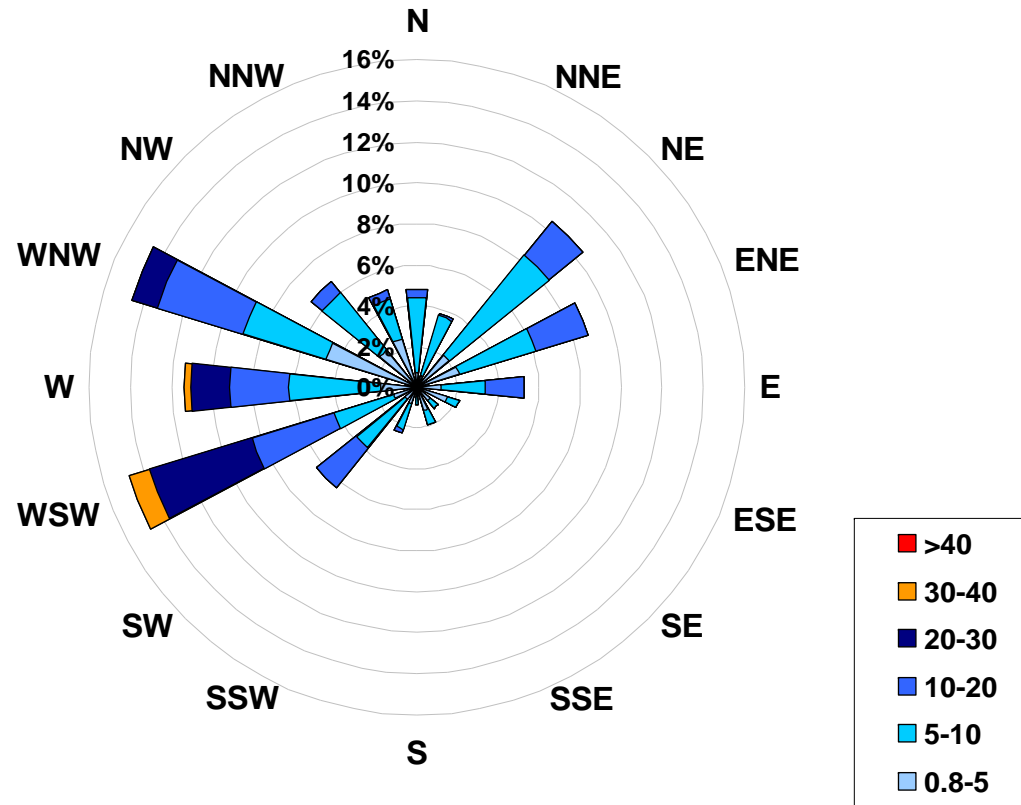
Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Mar-08	55	14	8	6	6	6	5	8	6	6	7	7	6	6	6	6	6	6	6	8	6	6	6	8	
2-Mar-08	9	5	7	13	23	49	13	7	14	10	42	16	18	22	13	19	15	11	38	61	61	46	29	37	
3-Mar-08	31	29	69	38	17	20	77	47	45	74	33	48	13	16	18	7	N	N	N	N	N	N	N	N	
4-Mar-08	N	N	N	N	N	N	N	N	N	N	N	N	N	11	19	4	15	N	N	N	10	16	26	N	
5-Mar-08	N	N	N	N	N	N	N	N	N	N	N	15	21	5	19	20	N	N	N	N	N	N	N	N	
6-Mar-08	N	N	N	N	N	N	N	N	N	N	N	N	7	9	13	4	9	11	6	5	8	8	16	9	
7-Mar-08	10	8	5	6	15	45	37	81	24	21	62	21	8	21	24	34	63	12	6	43	26	52	47	19	
8-Mar-08	34	83	91	72	34	27	31	29	16	7	9	11	7	8	5	7	8	5	5	15	42	12	6	14	
9-Mar-08	12	9	16	12	14	28	49	44	24	19	28	13	72	29	32	21	46	27	9	12	3	6	9	27	
10-Mar-08	33	76	80	71	85	67	56	57	66	16	38	40	18	14	28	18	21	44	38	81	65	13	11	10	
11-Mar-08	9	15	12	11	84	68	32	36	43	44	61	16	11	8	7	6	5	5	4	6	10	11	7	4	
12-Mar-08	3	4	4	4	3	3	4	4	4	7	5	6	6	5	5	7	10	5	7	13	37	29	9	50	
13-Mar-08	21	24	17	20	18	17	25	32	17	25	6	8	18	31	32	24	21	11	10	7	7	8	7	7	
14-Mar-08	10	11	12	14	14	12	11	19	17	31	21	22	20	27	31	32	19	19	9	17	16	25	12	9	
15-Mar-08	14	16	20	15	12	15	16	14	17	17	16	14	20	17	19	17	12	14	10	12	32	37	57	39	
16-Mar-08	20	56	35	58	38	32	30	17	24	17	67	12	69	20	26	14	13	57	39	51	57	51	79	24	
17-Mar-08	67	70	51	8	6	5	4	3	4	4	5	5	7	5	4	5	7	6	6	4	4	17	13	61	
18-Mar-08	28	58	20	42	12	40	18	36	26	28	15	8	7	8	8	8	8	4	20	29	7	7	14	12	
19-Mar-08	20	12	59	46	93	14	95	51	22	20	9	8	10	10	25	21	26	88	64	18	45	37	54	66	
20-Mar-08	30	12	24	57	58	34	18	24	22	19	21	17	23	21	25	17	12	11	11	8	14	38	15		
21-Mar-08	31	52	25	37	13	14	25	13	31	23	30	21	25	25	32	23	21	26	71	82	52	65	96	51	
22-Mar-08	11	61	35	22	38	70	16	22	28	44	27	24	26	24	21	17	8	6	8	5	4	4	5	4	
23-Mar-08	4	5	4	5	5	5	6	14	40	15	8	10	10	7	12	8	24	12	6	15	14	12	4	31	
24-Mar-08	16	66	26	8	13	36	12	6	7	6	6	8	6	7	7	6	6	6	5	6	6	8	7	7	
25-Mar-08	7	6	6	16	34	25	24	47	34	11	10	21	13	13	20	21	18	11	30	34	9	34	23	40	
26-Mar-08	19	16	19	30	22	18	12	13	11	16	15	11	15	9	9	9	9	8	6	6	7	7	6	7	
27-Mar-08	8	7	5	6	6	11	11	31	59	45	21	17	16	23	22	19	24	24	36	13	49	44	48	57	
28-Mar-08	29	21	13	7	8	7	6	7	8	11	12	13	9	12	13	32	15	16	16	14	14	18	13	17	
29-Mar-08	13	15	14	12	12	16	26	19	26	17	22	22	30	44	32	41	32	34	28	19	17	15	9	8	
30-Mar-08	91	14	10	18	9	20	17	75	24	65	45	54	43	44	34	18	15	12	11	11	22	10	26	41	
31-Mar-08	50	10	11	19	19	16	23	24	13	35	18	28	27	32	37	39	29	22	26	9	10	6	6	5	

Daily Maximum
55.4
61.5
77.0
25.8
21.3
16.1
81.0
91.5
71.7
85.0
83.9
49.6
31.9
32.4
57.0
78.7
69.8
57.8
95.0
58.2
95.7
70.1
40.0
65.7
46.9
29.8
58.7
32.0
43.5
90.6
49.9

Hourly Max	91	83	91	72	93	70	95	81	66	74	67	54	72	44	37	41	63	88	71	82	65	65	96	66
------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

1-hr Average Wind Rose (in km/hr) Located at the Henry Pirker Site for March 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	168
5	to	10	298
10	to	20	155
20	to	30	58
30	to	40	9
	>	40	0
Total Non-Zero Values			688

PASZA
Evergreen Park Station
Monthly Summary Tables, Graphs and
Roses

PASZA - Evergreen Park Sulphur Dioxide Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

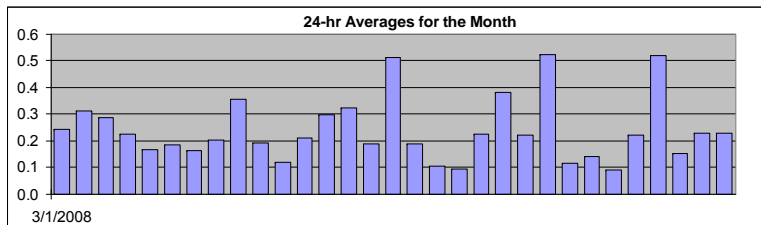
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	4.3 ppb 28-Mar 8:00 9:00
Maximum 24-hr Average:	0.5 ppb 23-Mar



AIC Time:	33 hrs	Operational Time:	709 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.1	0.7	0.3	0.2	0.1	0.0	0.0	0.2 ppb	0.2 ppb

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	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-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	0	0.2	0.6
2-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	1	A	1	1	1	1	0	0	0	0	0	0	0	0.3	0.7
3-Mar-08	0	0	0	0	0	0	0	0	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
4-Mar-08	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
5-Mar-08	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
6-Mar-08	0	0	0	0	0	0	0	0	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9
7-Mar-08	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
8-Mar-08	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.2	0.5
9-Mar-08	0	0	0	0	0	A	0	0	0	1	1	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0.4	1.5
10-Mar-08	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
11-Mar-08	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
12-Mar-08	0	0	A	0	0	0	0	0	0	0	0	0	C	C	A	0	0	0	0	0	0	0	0	0	1	0.2	0.5
13-Mar-08	0	0	0	0	0	A	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.3	0.8
14-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0.3	0.9
15-Mar-08	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
16-Mar-08	0	0	A	0	0	0	0	0	0	0	1	4	1	2	1	0	1	0	0	0	0	0	0	0	0	0.5	4.0
17-Mar-08	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
18-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.3
19-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.2
20-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	A	0	0	0.2	0.6
21-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	A	0	0	0	0.4	1.1
22-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	A	0	0	0	0	0.2	0.7
23-Mar-08	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	A	0	0	0	0	0	0.5	1.1
24-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.1	0.3
25-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.1	0.5
26-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.1	0.3
27-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	0	0	0	0	0	0	0	0	0.2	0.6
28-Mar-08	0	0	0	0	0	0	0	0	4	1	1	1	1	A	1	1	0	0	0	0	0	0	0	0	0	0.5	4.3
29-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
30-Mar-08	0	0	0	0	0	0	0	0	0	0	1	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0
31-Mar-08	0	0	0	0	0	0	0	0	0	0	0	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0.2	0.7
Hourly Avg	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.1	0.2	0.1		
Hourly Max	0.4	0.5	0.4	0.4	0.3	0.3	0.4	0.6	4.3	1.0	4.0	1.2	1.9	0.9	1.1	1.1	0.8	0.8	0.5	0.4	0.4	0.5	0.6	0.5			

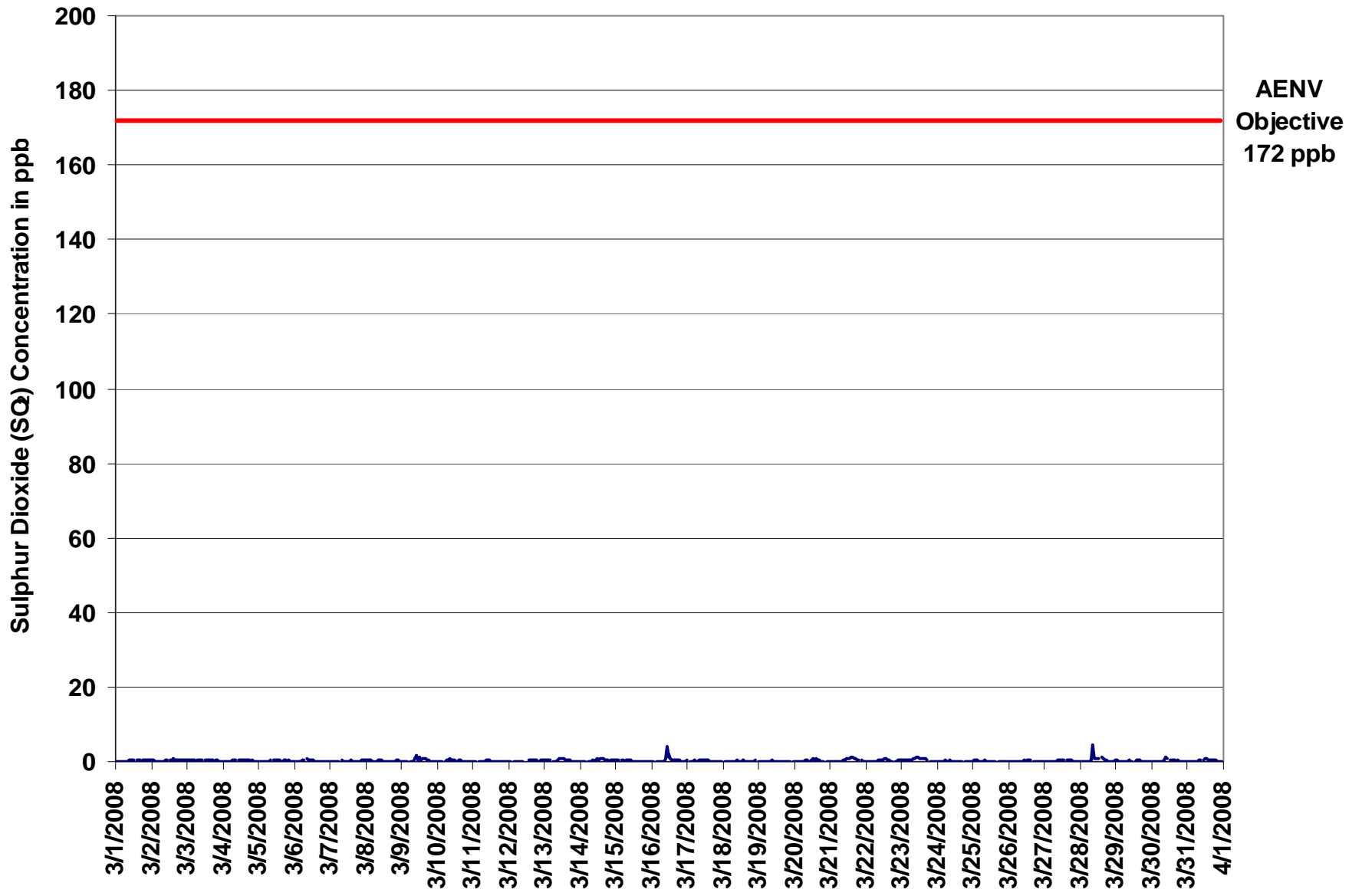


Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

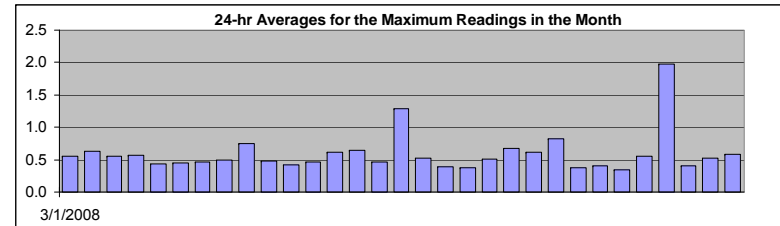
Sulphur Dioxide (SO₂)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	28.2	ppb	28-Mar	8:00 9:00
Maximum 24-hr Value:	2.0	ppb	28-Mar	

AIC Time:	33 hrs	Operational Time:	709 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.5	1.2	0.6	0.4	0.3	0.3	0.2	0.6 ppb	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 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-Mar-08	0	1	0	0	0	0	0	0	1	1	2	1	1	A	1	1	0	0	0	0	1	1	1	1	0.6	1.6
2-Mar-08	1	1	1	1	0	0	0	0	0	0	1	1	A	1	1	1	1	1	1	1	1	1	0	0	0.6	1.5
3-Mar-08	0	0	1	0	0	0	1	1	1	1	1	A	1	1	1	1	0	0	0	0	1	0	0	0.6	1.3	
4-Mar-08	0	0	0	0	0	0	1	1	1	1	A	1	1	1	1	0	1	1	1	1	0	0	0	0.6	1.2	
5-Mar-08	0	0	0	0	0	0	0	0	1	A	1	1	1	1	0	1	0	0	1	0	1	0	0	0.4	0.7	
6-Mar-08	0	0	0	0	0	0	1	1	A	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.5	1.3	
7-Mar-08	0	0	0	0	0	0	1	A	1	1	1	0	1	0	1	1	0	0	0	0	0	1	1	0.5	0.7	
8-Mar-08	1	1	1	0	0	0	A	0	0	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0.5	0.9	
9-Mar-08	0	0	1	0	0	A	0	0	0	1	2	1	3	1	1	1	1	1	1	0	0	0	0	0.7	3.0	
10-Mar-08	0	0	0	0	A	0	1	1	1	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0.5	1.1	
11-Mar-08	0	0	0	A	0	0	1	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	0	0.4	1.2	
12-Mar-08	0	0	A	0	0	0	0	0	0	0	0	C	C	A	1	1	1	1	1	1	0	0	1	0.5	0.8	
13-Mar-08	1	1	0	1	1	A	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0.6	1.2	
14-Mar-08	0	0	0	0	A	0	0	1	1	0	1	1	1	1	1	1	1	1	0	0	1	1	1	0.7	1.3	
15-Mar-08	1	1	1	A	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0.5	1.0	
16-Mar-08	0	0	A	0	0	1	1	0	0	5	7	3	3	2	1	2	1	1	1	0	1	0	1	1.3	7.0	
17-Mar-08	1	A	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	2	0	0	0	0	0.5	1.6	
18-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	1	0.4	0.7	
19-Mar-08	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	1	0	A	0.4	0.9	
20-Mar-08	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1	1	1	0	0	0	0	A	0	0.5	1.0	
21-Mar-08	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	1	1	1	1	1	A	1	0	0.7	1.5	
22-Mar-08	0	0	0	0	0	0	0	0	1	0	1	1	2	3	1	0	0	0	0	A	0	0	1	0.6	2.5	
23-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0	0	0	0	0.8	1.3	
24-Mar-08	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.4	0.9	
25-Mar-08	1	1	1	1	0	0	1	0	1	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0.4	0.9	
26-Mar-08	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	A	0	0	0	0	0	0	0	0.3	0.6	
27-Mar-08	0	0	0	0	1	0	0	0	0	1	0	2	2	1	A	1	1	1	1	0	0	0	0	0.5	1.5	
28-Mar-08	0	0	0	0	0	0	1	1	28	5	1	1	1	A	2	1	1	0	0	0	0	0	0	2.0	28.2	
29-Mar-08	1	1	0	0	0	0	0	0	0	0	1	0	A	0	1	1	1	0	0	0	0	0	0	0.4	0.7	
30-Mar-08	0	0	0	0	0	0	0	0	1	2	1	A	1	1	0	0	0	0	0	0	0	0	0	0.5	1.6	
31-Mar-08	0	0	0	0	0	0	0	1	1	1	A	1	1	1	2	1	1	1	1	1	0	0	1	0.6	1.5	
Hourly Avg	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	1.5	1.0	1.0	0.8	1.0	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.4	0.4	0.4			
Hourly Max	0.7	1.0	0.7	0.7	0.6	1.0	1.2	1.3	28.2	5.5	7.0	3.0	3.3	2.5	1.5	1.6	1.2	1.1	1.6	0.7	0.9	0.9	1.0	1.0		

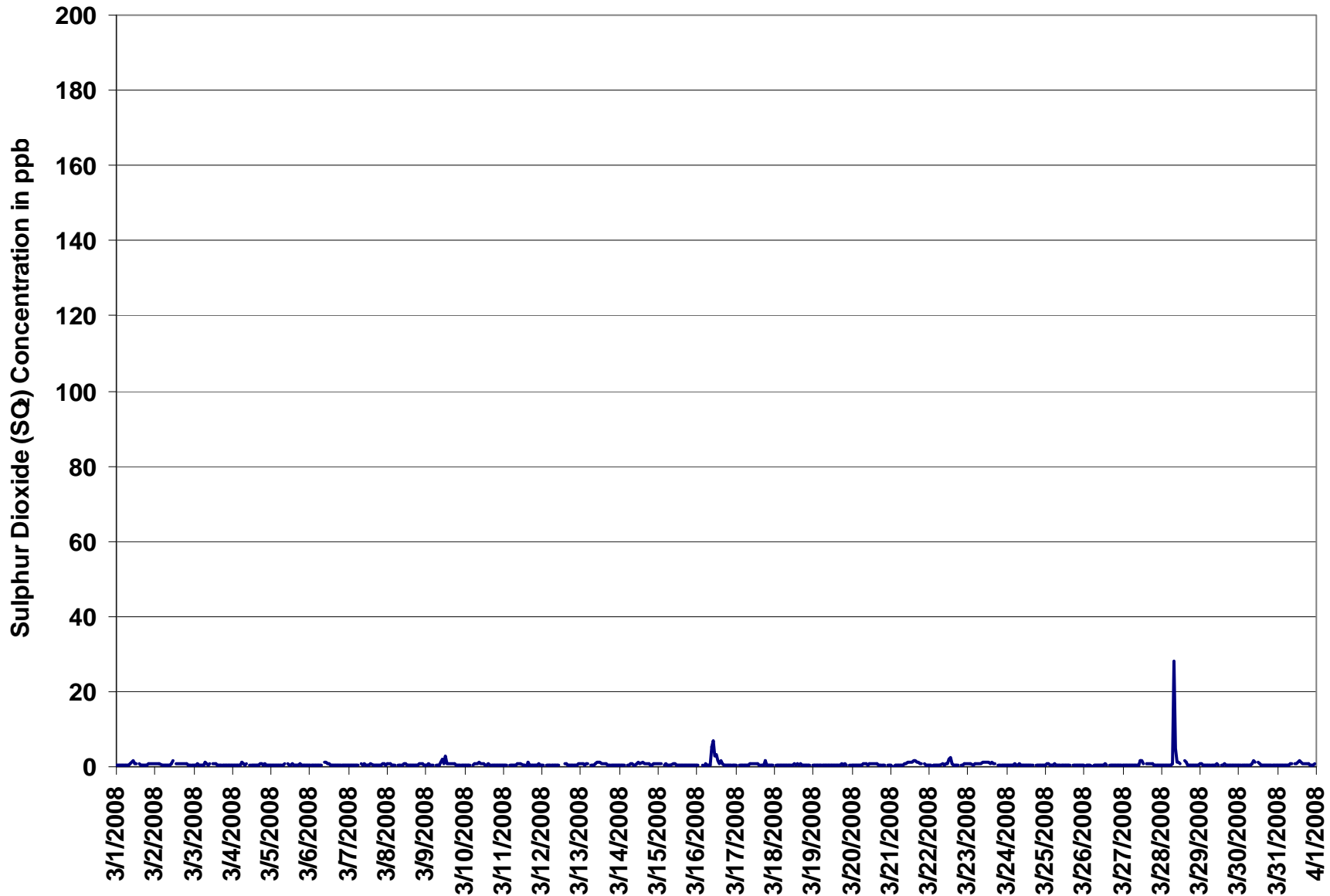
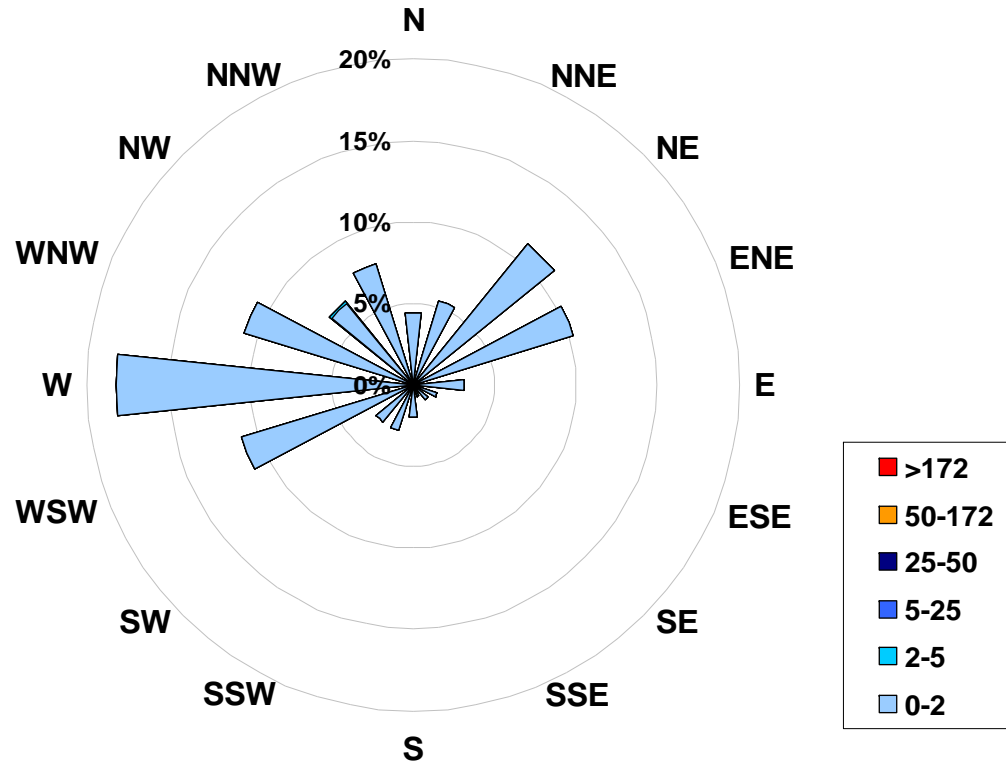


Figure 21. PASZA - Evergreen Park Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Evergreen Park Site for March 2008



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	< 2		707
2	to 5		2
5	to 25		0
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			709

PASZA - Evergreen Park Total Reduced Sulphur Monthly Summary

Station: Evergreen Park
Station Owner: PASZA

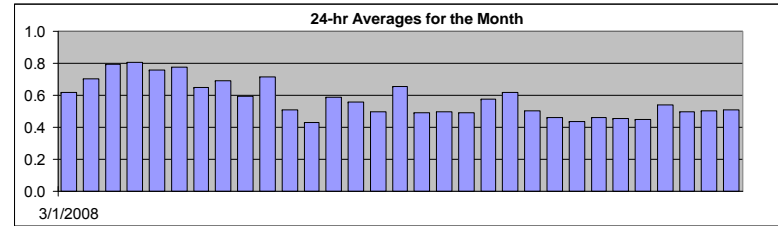
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Maximum 1-hr Average: 2.4 ppb 6-Mar 7:00 8:00
Maximum 24-hr Value: 0.8 ppb 4-Mar



AIC Time:	32 hrs		Operational Time:	709 hrs					
Calibration Time:	3 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	1.4	0.9	0.6	0.5	0.5	0.4	0.4	0.6 ppb	0.5 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum					
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00	23:00	0:00	
1-Mar-08			0	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.9
2-Mar-08			1	1	1	1	1	1	1	1	0	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1
3-Mar-08			1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.4	
4-Mar-08			1	1	1	1	1	1	1	1	2	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	2.0	
5-Mar-08			1	1	1	1	1	1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.5	
6-Mar-08			1	1	1	1	1	1	1	2	A	2	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0.8	2.4	
7-Mar-08			1	1	0	0	1	1	1	A	1	1	1	0	0	1	1	0	0	1	1	1	1	1	1	1	1	0.7	1.3		
8-Mar-08			1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0		
9-Mar-08			1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0.6	0.7		
10-Mar-08			0	0	0	1	A	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.8		
11-Mar-08			0	1	1	A	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0.5	0.7		
12-Mar-08			0	0	A	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5		
13-Mar-08			0	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	0	0.6	1.0		
14-Mar-08			0	0	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.6		
15-Mar-08			1	1	1	A	0	1	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	1	0.5	0.6		
16-Mar-08			1	0	A	0	1	1	1	1	1	0	1	1	1	0	0	1	0	1	1	1	1	1	1	1	1	0.7	1.1		
17-Mar-08			1	A	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0.5	0.9		
18-Mar-08			A	0	0	0	0	0	0	0	0	1	1	0	0	1	0	1	0	0	1	1	1	1	1	1	A	0.5	0.6		
19-Mar-08			1	1	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	A	1	0.5	0.6		
20-Mar-08			0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	A	1	1	0.6	0.9		
21-Mar-08			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	A	1	1	1	0.6	0.9		
22-Mar-08			1	1	1	1	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	A	0	0	0	0	0	0.5	1.0		
23-Mar-08			0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	1	A	0	1	0	0	0	0	0.5	0.6		
24-Mar-08			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.4	0.5		
25-Mar-08			0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.5	0.7		
26-Mar-08			0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0.5	0.5		
27-Mar-08			0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	1	0	0	0.4	0.5		
28-Mar-08			0	0	1	1	1	1	1	1	1	1	1	1	0	A	1	1	1	0	1	1	1	1	0	0	0	0.5	0.7		
29-Mar-08			0	1	0	0	0	0	0	1	1	1	1	1	1	A	1	0	0	1	1	1	1	0	0	0	0	0.5	0.5		
30-Mar-08			0	1	0	0	0	1	1	1	1	1	1	1	A	1	0	0	1	0	1	0	0	0	0	0	1	0.5	0.7		
31-Mar-08			1	1	1	1	1	1	1	1	0	1	A	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0.5	0.7		
Hourly Avg			0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5				
Hourly Max			1.0	1.4	1.3	1.2	1.0	1.1	1.2	2.4	2.0	1.8	1.5	0.9	0.7	0.8	0.7	0.7	0.7	0.9	1.0	0.9	0.8	1.3	1.3	1.1					

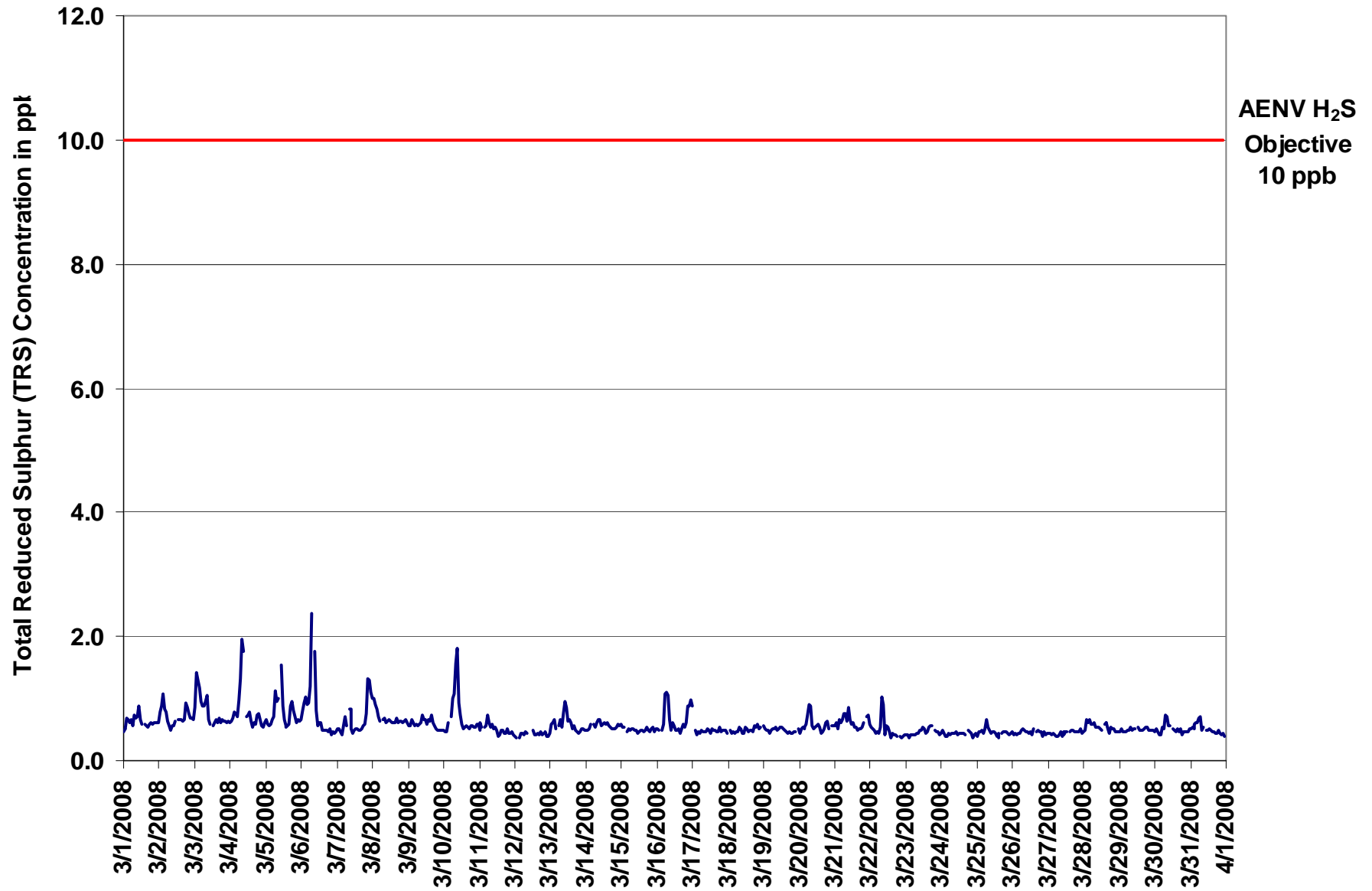


Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

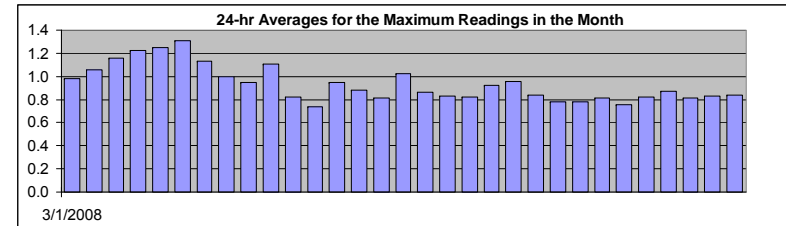
Total Reduced Sulphur (TRS)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	5.8	ppb	6-Mar	7:00 8:00
Maximum 24-hr Value:	1.3	ppb	6-Mar	

AIC Time:	32 hrs	Operational Time:	709 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.3	1.5	1.0	0.8	0.8	0.7	0.6	0.9 ppb	0.8 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Mar-08	1	1	1	1	1	1	1	1	1	1	2	1	1	A	1	1	1	1	1	1	1	1	1	1	1.0	2.1	
2-Mar-08	1	1	1	2	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1.1	1.5	
3-Mar-08	2	2	2	2	1	1	1	2	2	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1.2	1.8	
4-Mar-08	1	1	1	1	1	1	2	2	3	3	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	3.2	
5-Mar-08	1	1	1	1	1	3	3	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	3.0	
6-Mar-08	1	1	1	2	1	1	2	6	A	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.3	5.8	
7-Mar-08	1	1	1	1	2	1	1	A	3	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1.1	2.5	
8-Mar-08	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.5	
9-Mar-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2	
10-Mar-08	1	1	1	1	A	1	1	1	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.9	
11-Mar-08	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0	
12-Mar-08	1	1	A	1	1	1	1	1	1	C	C	C	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9	
13-Mar-08	1	1	1	1	1	A	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.6	
14-Mar-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.0	
15-Mar-08	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0	
16-Mar-08	1	1	A	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.0	1.9	
17-Mar-08	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.9	1.9	
18-Mar-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.0	
19-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	1.2	
20-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.9	1.5	
21-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1.0	1.2	
22-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.8	1.4	
23-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.8	0.9	
24-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.8	0.9	
25-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.8	1.4	
26-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.8	0.9	
27-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.8	1.4	
28-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0.9	1.0	
29-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0	
30-Mar-08	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1	
31-Mar-08	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1	
Hourly Avg	0.9	0.9	0.9	0.9	0.9	1.0	1.1	1.2	1.1	1.1	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9		
Hourly Max	1.7	1.8	1.8	1.6	1.7	3.0	2.9	5.8	3.2	2.9	2.1	1.4	1.4	1.1	1.0	1.1	1.1	1.2	1.9	1.1	1.2	2.0	1.9	1.9			

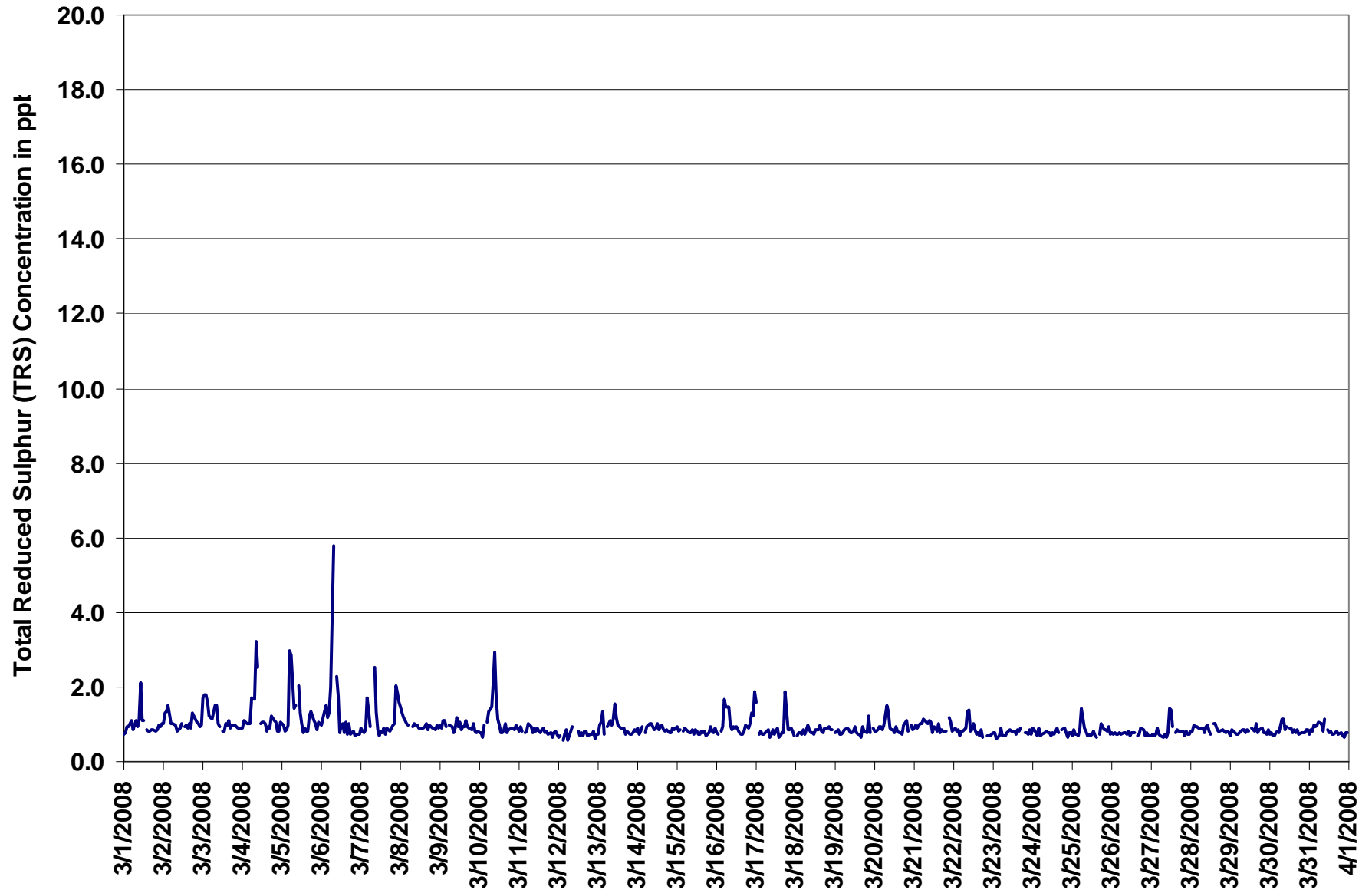
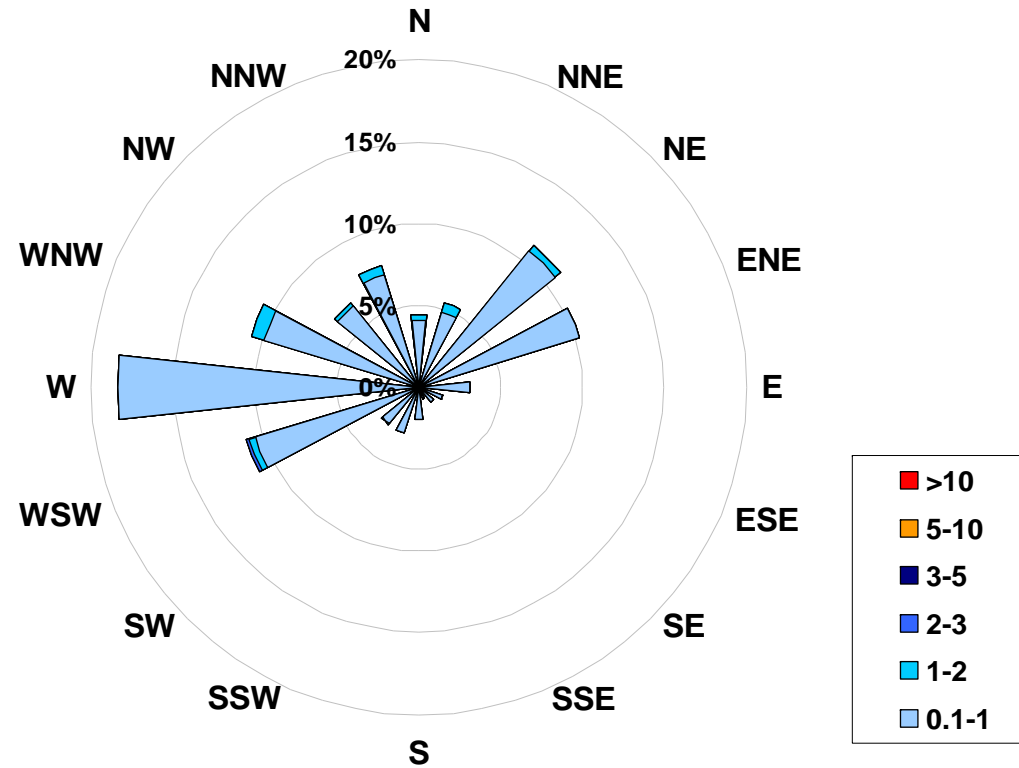


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Evergreen Park Site for March 2008**



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	683
1	to	2	25
2	to	3	1
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			709

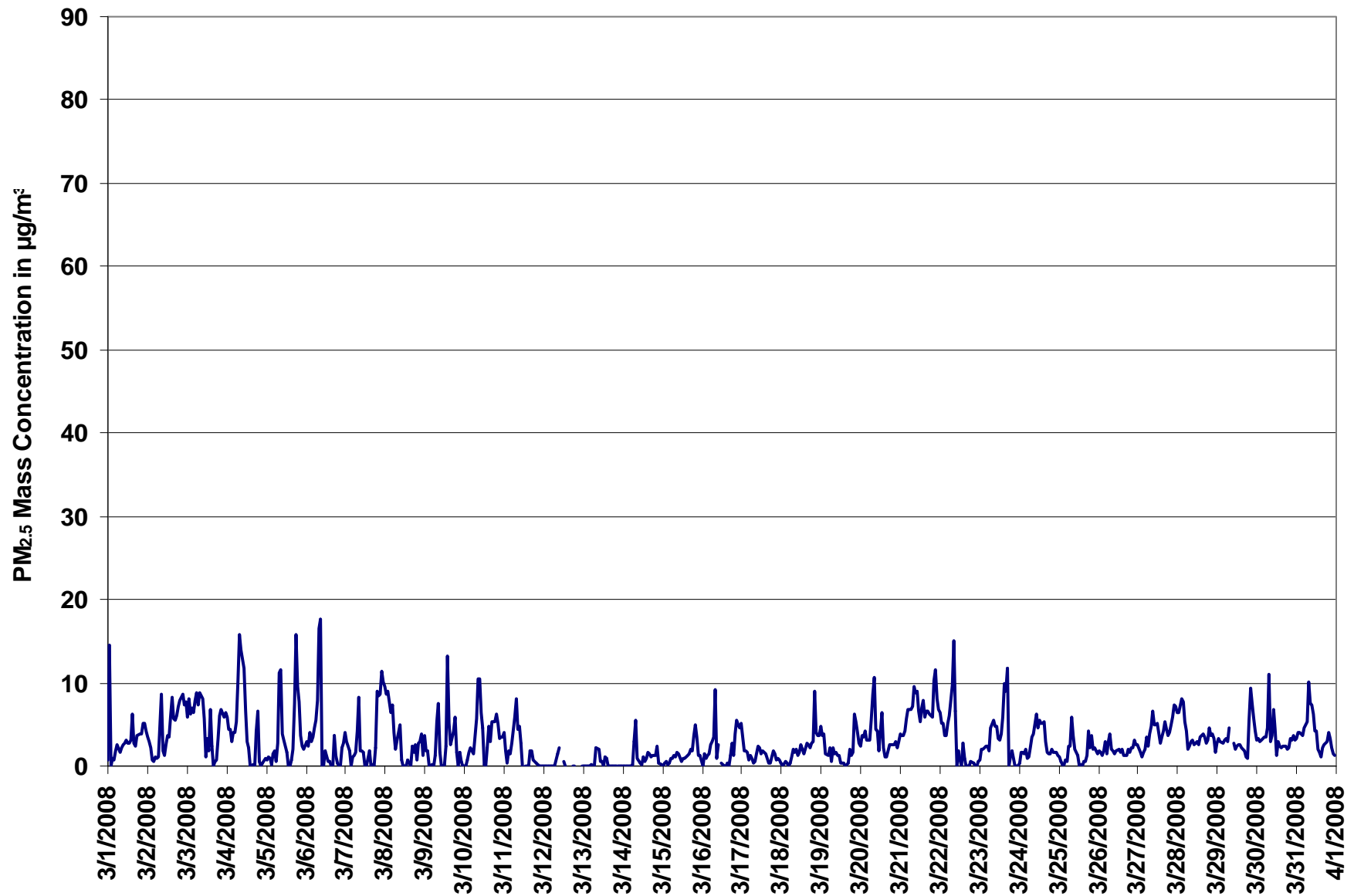


Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

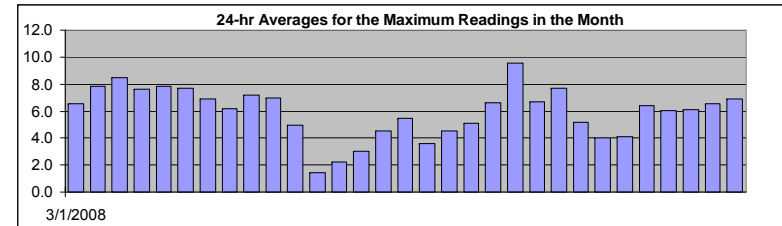
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	37.4	µg/m ³	23-Mar	17:00 18:00
Maximum 24-hr Value:	9.5	µg/m ³	21-Mar	



AIC Time:	0 hrs	Operational Time:	739 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	21.9	13.2	7.6	5.1	3.3	1.2	0.0	5.9	5 µg/m ³
									5.6 µg/m ³

Status Flag Characters

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

Day Mountain Standard Time

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-Mar-08	4	22	7	3	4	6	5	5	5	4	5	6	5	6	10	6	6	6	7	6	8	8	7	6.5	22.3	
2-Mar-08	6	6	5	3	4	5	5	5	14	6	6	5	7	8	9	11	11	7	8	10	11	10	11	7.8	14.1	
3-Mar-08	8	13	9	10	10	11	12	12	12	11	8	5	6	5	10	6	4	2	6	5	9	10	10	8.5	13.0	
4-Mar-08	7	7	6	6	6	6	10	14	22	20	20	11	5	4	3	2	2	2	8	9	4	2	2	3	7.6	22.2
5-Mar-08	3	3	5	4	5	5	4	6	23	24	7	7	5	2	2	3	5	10	21	16	12	6	5	5	7.8	24.5
6-Mar-08	5	4	7	5	6	7	8	9	24	29	19	3	6	8	6	5	3	6	4	4	3	3	5	5	7.7	28.6
7-Mar-08	6	5	3	2	3	3	4	9	13	8	4	4	3	3	4	2	4	3	8	17	13	16	17	12	6.9	17.5
8-Mar-08	13	11	12	9	9	9	4	5	7	8	4	0	2	5	3	4	5	7	7	3	5	4	7	5	6.2	12.6
9-Mar-08	9	5	9	1	2	3	3	16	17	7	2	1	4	20	20	12	9	9	9	4	3	4	2	1	7.2	20.5
10-Mar-08	1	4	3	4	5	4	7	8	15	16	10	6	5	3	5	8	10	9	9	9	9	6	7	5	7.0	16.3
11-Mar-08	6	4	3	5	4	6	8	13	8	9	9	2	3	5	5	2	7	4	3	2	4	3	4	1	4.9	12.8
12-Mar-08	1	1	0	0	0	0	0	2	3	6	C	C	3	7	0	1	0	0	0	5	0	0	0	0	1.4	7.5
13-Mar-08	0	2	1	0	1	8	3	4	5	6	2	3	0	6	5	1	1	0	0	1	2	1	2	0	2.2	8.2
14-Mar-08	1	1	1	1	3	2	3	9	11	7	2	2	2	1	2	3	3	3	2	2	3	5	3	3	3.0	11.3
15-Mar-08	4	4	4	3	3	4	4	4	4	4	4	4	3	3	5	5	5	4	5	11	7	6	5	5	4.5	10.9
16-Mar-08	3	4	4	4	6	6	8	8	17	6	6	P	2	2	2	2	2	4	6	4	6	8	7	7	5.5	17.1
17-Mar-08	7	6	4	4	3	3	3	2	3	3	5	4	4	5	4	2	2	2	2	3	3	4	3	3	3.6	7.2
18-Mar-08	4	3	3	3	3	3	5	5	7	5	3	3	4	4	3	5	4	4	4	5	14	6	6	6	4.6	14.2
19-Mar-08	11	10	6	3	5	7	3	5	3	5	2	3	3	2	3	2	2	5	4	4	13	10	7	6	5.1	13.3
20-Mar-08	5	5	7	8	5	6	8	12	19	8	6	5	9	9	4	2	3	4	4	4	4	8	7	6	6.6	19.5
21-Mar-08	7	6	6	8	10	11	10	10	12	11	12	10	8	8	9	8	8	9	9	9	14	14	10	9	9.5	14.1
22-Mar-08	9	8	8	7	6	10	10	15	19	14	1	8	10	9	11	3	2	1	1	2	1	1	2	2	6.7	19.5
23-Mar-08	3	4	4	5	5	5	5	9	10	6	7	5	5	6	11	12	31	37	2	3	5	2	2	1	7.7	37.4
24-Mar-08	3	5	4	5	6	3	3	5	6	6	11	7	8	8	7	7	5	5	3	3	3	4	4	3	5.2	10.7
25-Mar-08	3	3	2	2	4	3	5	5	10	9	5	2	2	1	1	2	2	3	8	4	9	3	6	4	4.0	9.8
26-Mar-08	4	4	3	5	6	7	6	8	3	4	2	3	4	3	4	2	3	3	3	3	4	5	5	4	4.1	8.0
27-Mar-08	5	4	3	3	4	7	5	6	7	8	7	6	8	6	6	6	7	7	5	7	8	9	11	10	6.4	11.2
28-Mar-08	9	9	10	10	9	7	5	5	6	6	5	4	4	4	5	6	5	4	5	6	6	6	5	4	6.0	10.1
29-Mar-08	5	6	5	6	5	6	6	7	P	P	5	4	5	5	4	5	4	4	2	13	14	10	9	7	6.1	13.7
30-Mar-08	5	6	6	6	6	7	9	15	10	9	10	8	5	5	4	4	4	4	4	4	6	6	7	6	6.5	14.6
31-Mar-08	7	7	8	7	7	8	9	15	12	10	8	8	10	5	4	4	4	4	5	7	6	4	4	4	6.9	14.7
Hourly Avg	5.3	5.9	5.2	4.5	5.0	5.7	5.9	8.1	10.9	9.2	6.6	4.8	4.8	5.4	5.4	4.8	5.3	5.5	5.3	6.0	6.6	6.1	5.9	5.0		
Hourly Max	12.6	22.3	11.7	10.1	10.4	11.0	12.0	15.6	23.7	28.6	20.0	10.7	10.1	20.5	20.0	12.0	31.5	37.4	21.4	17.5	14.2	15.6	16.7	11.7		

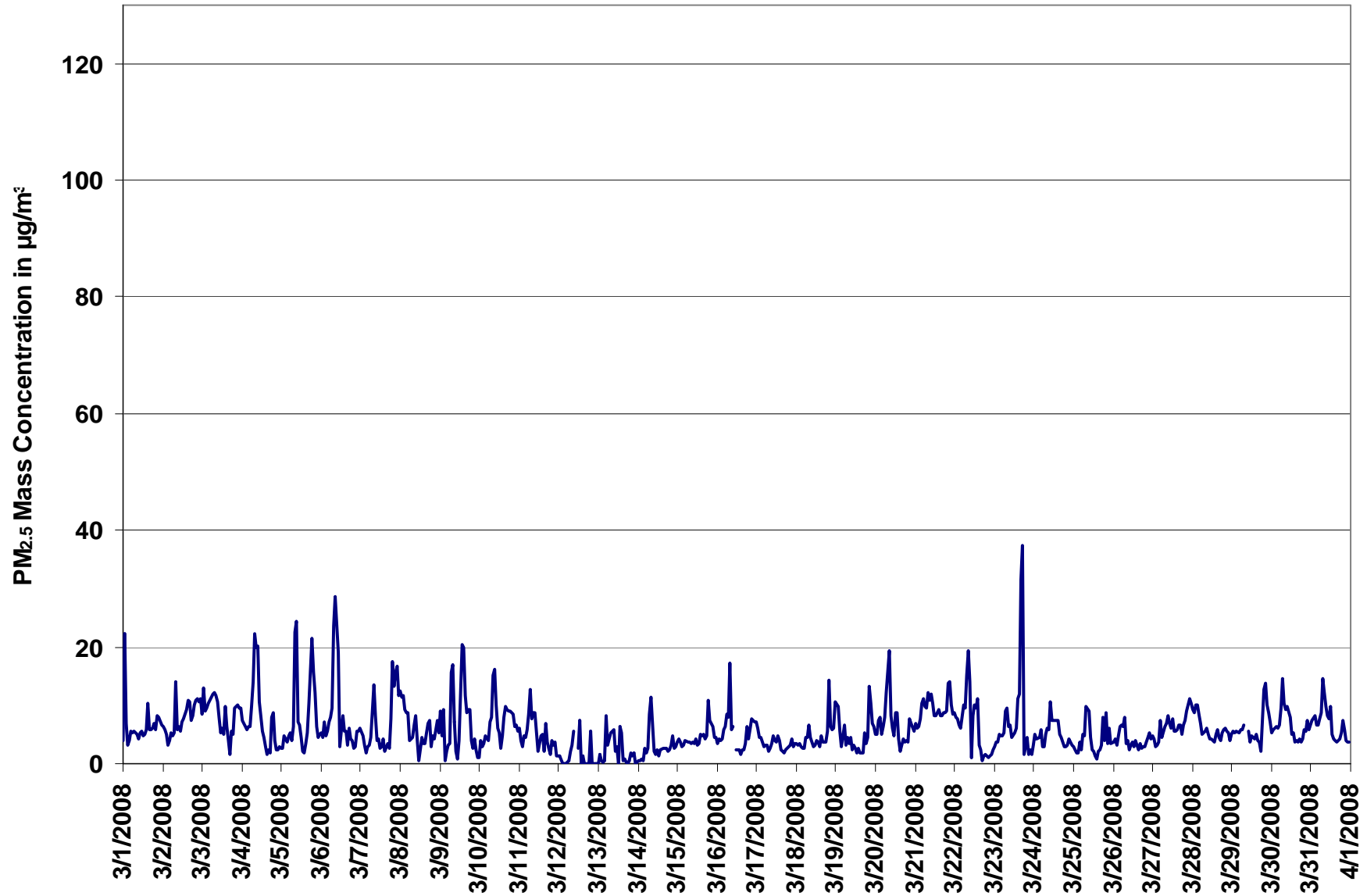
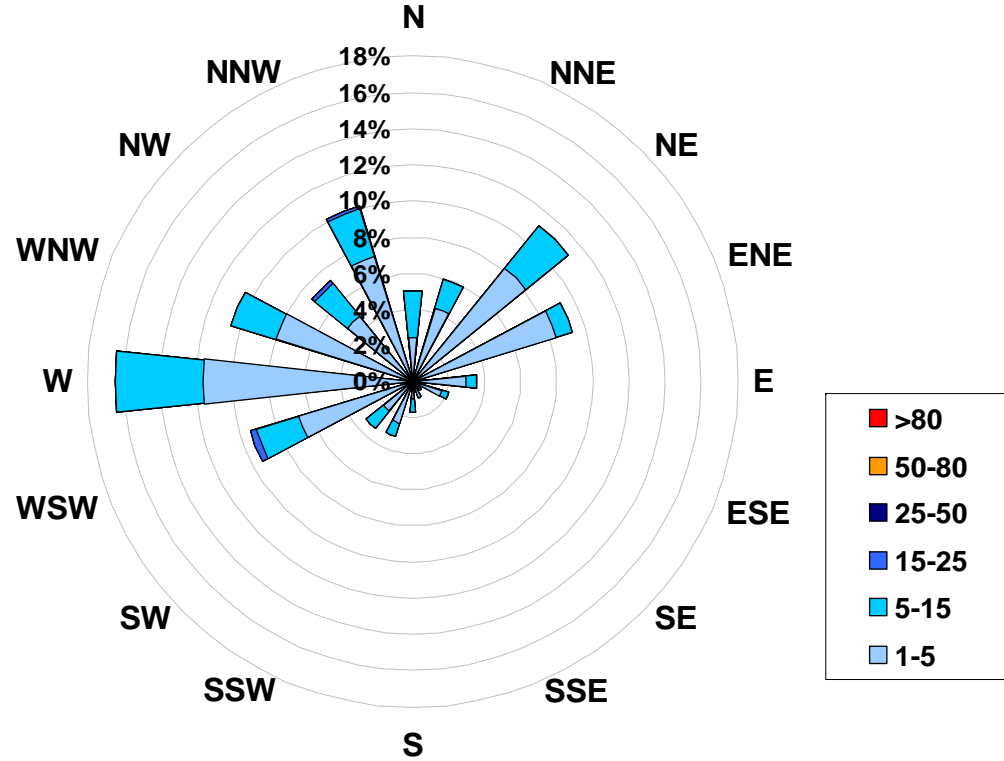


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Evergreen Park Site for March 2008



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range		Frequency (hrs)	
1.0	< 5	582	
5	to 15	146	
15	to 25	4	
25	to 50	0	
50	to 80	0	
	> 80	0	
Total Non-Zero Values			732

PASZA - Evergreen Park Temperature Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

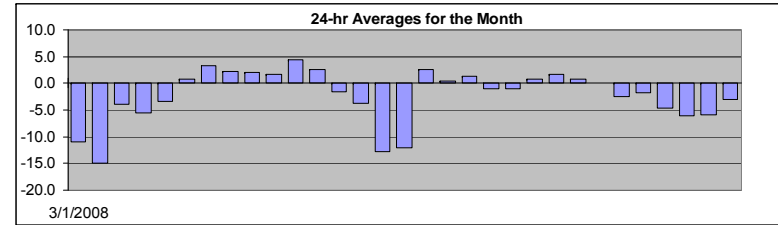
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	11.0 °C	6-Mar	14:00 15:00
Maximum 24-hr Value:	4.5 °C	11-Mar	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	9.6	7.3	2.7	-1.6	-6.2	-14.6	-22.9	-2.3 °C	-1.6 °C

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Mar-08	0	2	-1	-3	-6	-9	-10	-12	-12	-12	-13	-12	-13	-13	-13	-14	-14	-14	-15	-15	-15	-16	-16	-17	-11.0	1.6
2-Mar-08	-17	-18	-18	-20	-22	-23	-23	-24	-24	-21	-18	-17	-14	-11	-11	-9	-8	-8	-10	-10	-11	-11	-11	-9	-14.9	-7.5
3-Mar-08	-9	-8	-7	-7	-6	-6	-6	-5	-4	-2	1	2	3	2	1	1	0	-1	-4	-5	-7	-8	-9	-9	-3.9	2.7
4-Mar-08	-9	-9	-10	-12	-14	-15	-16	-17	-15	-11	-5	-3	-1	0	2	3	4	3	1	-2	-2	-3	-2	-4	-5.6	3.6
5-Mar-08	-4	-7	-8	-10	-11	-11	-12	-13	-11	-6	-3	0	3	5	7	7	7	5	1	-2	-3	-3	-5	-6	-3.4	7.4
6-Mar-08	-6	-7	-8	-9	-10	-11	-11	-12	-10	-4	3	7	10	10	11	11	11	8	7	6	6	7	6	6	0.8	11.0
7-Mar-08	5	4	3	2	2	1	-2	-4	-1	3	5	6	7	8	9	9	10	9	6	2	0	-1	-2	-3	3.3	10.0
8-Mar-08	-3	-4	-4	-4	-4	-2	-1	-1	0	3	7	8	8	8	9	8	8	7	6	4	1	2	0	-3	2.3	8.6
9-Mar-08	-3	-3	-3	-2	-3	-3	-5	-6	-4	1	4	7	9	9	7	4	6	7	6	6	6	5	4	1	2.1	9.0
10-Mar-08	-1	-2	-3	-3	-3	-4	-5	-5	-3	0	3	5	8	9	9	8	7	6	4	3	2	2	2	2	1.7	8.9
11-Mar-08	1	2	2	2	0	0	0	0	1	4	7	9	10	10	10	9	9	7	5	4	4	3	4	4	4.5	10.3
12-Mar-08	4	3	3	3	3	3	2	2	2	2	2	3	3	3	4	4	4	3	3	2	1	1	1	0	2.5	4.0
13-Mar-08	-1	-2	-3	-3	-4	-5	-5	-6	-4	-2	-1	1	2	3	3	3	3	3	0	-2	-3	-3	-4	-5	-1.5	3.0
14-Mar-08	-5	-7	-6	-7	-8	-8	-9	-9	-6	-4	-3	-1	0	0	1	1	1	0	-2	-2	-3	-3	-4	-6	-3.7	1.4
15-Mar-08	-7	-9	-10	-10	-11	-12	-13	-13	-14	-13	-13	-13	-13	-12	-12	-12	-12	-12	-13	-14	-14	-16	-16	-17	-12.7	-7.4
16-Mar-08	-18	-20	-22	-23	-25	-25	-25	-25	-20	-15	-12	-8	-7	-6	-5	-2	-1	-3	-4	-4	-4	-5	-5	-5	-12.1	-0.7
17-Mar-08	-5	-1	-2	-1	1	2	2	2	3	3	4	5	5	6	6	6	6	5	4	3	2	1	1	1	2.5	6.2
18-Mar-08	1	-2	-4	-5	-6	-7	-7	-6	-2	2	4	5	5	6	6	6	6	5	4	0	-1	2	1	-2	0.5	6.5
19-Mar-08	-3	0	0	-1	-2	-3	-1	-1	1	2	3	4	5	6	6	6	7	6	3	1	-1	-2	-2	-2	1.3	6.5
20-Mar-08	-3	-3	-5	-6	-7	-8	-8	-8	-4	-1	1	3	4	4	5	5	6	4	3	1	-1	-2	-3	-4	-1.1	5.6
21-Mar-08	-4	-5	-6	-7	-7	-7	-7	-7	-4	-2	0	1	3	4	5	5	5	5	3	2	1	1	0	-2	-1.0	5.4
22-Mar-08	-4	-4	-5	-6	-7	-8	-8	-8	-4	0	3	6	7	8	9	8	8	7	5	3	1	1	3	2	0.7	8.5
23-Mar-08	2	1	0	-1	-1	-2	-1	0	0	0	3	6	6	7	7	6	5	2	2	1	0	0	0	-3	1.7	7.1
24-Mar-08	-1	-4	-5	-5	-6	-3	-2	-1	1	2	3	4	5	5	6	5	5	4	4	2	2	0	0	-1	0.7	5.5
25-Mar-08	-1	-1	-2	-2	-2	-3	-4	-4	0	2	2	3	4	4	5	5	5	5	3	0	-2	-4	-5	-6	0.0	5.0
26-Mar-08	-6	-7	-8	-8	-8	-9	-9	-7	-5	-3	-1	1	2	3	3	3	3	2	1	0	-1	-1	-1	-1	-2.4	3.3
27-Mar-08	-2	-2	-2	-3	-3	-4	-4	-4	-3	-2	-1	-1	0	1	1	2	2	2	1	-2	-3	-4	-4	-6	-1.7	2.0
28-Mar-08	-7	-8	-8	-7	-6	-5	-6	-6	-6	-5	-4	-3	-3	-2	-2	-2	-3	-3	-3	-4	-4	-5	-5	-6	-4.7	-2.1
29-Mar-08	-7	-7	-7	-8	-9	-9	-10	-8	-7	-6	-5	-5	-4	-3	-2	-2	-2	-2	-2	-5	-7	-9	-10	-11	-6.1	-1.9
30-Mar-08	-12	-13	-13	-14	-15	-15	-15	-13	-9	-7	-4	-1	0	1	2	2	2	2	1	-2	-3	-4	-5	-7	-5.9	2.1
31-Mar-08	-8	-9	-10	-10	-11	-12	-13	-10	-6	-4	-2	0	2	3	3	4	4	4	4	1	0	0	-1	-1	-3.0	3.6
Hourly Avg	-4.4	-4.8	-5.6	-6.1	-6.9	-7.3	-7.6	-7.3	-5.4	-3.0	-0.9	0.8	2.0	2.6	2.9	3.0	2.9	2.2	0.7	-1.0	-2.0	-2.4	-2.9	-3.8		
Hourly Max	5.0	4.2	3.0	2.6	3.0	2.8	2.5	2.2	2.7	3.7	7.0	9.2	10.0	10.3	11.0	10.9	10.7	9.5	6.6	6.4	5.9	6.6	6.3	5.8		

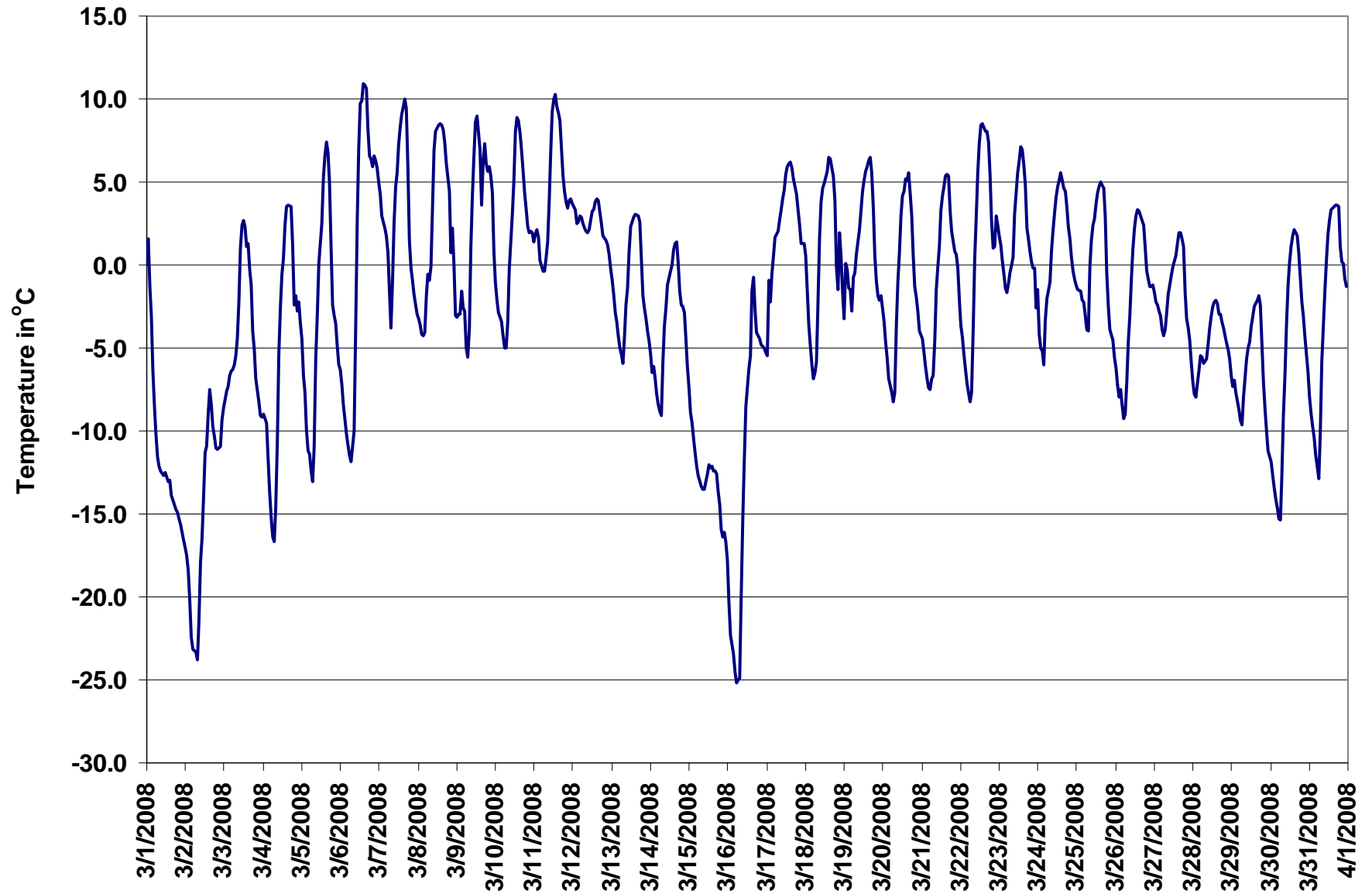


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

PASZA - Evergreen Park Scalar Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

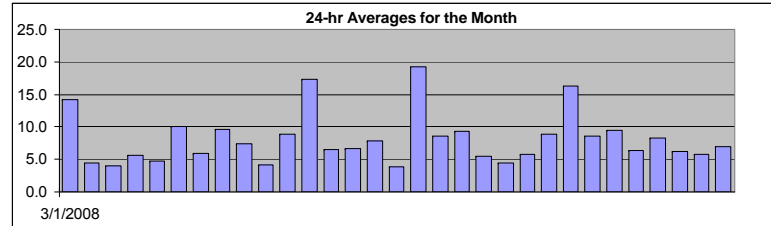
Wind Speed (WSs)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	29.3	km/hr	6-Mar	22:00 23:00
Maximum 24-hr Value:	19.2	km/hr	17-Mar	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	26.7	20.0	10.4	6.5	3.8	2.6	2.0	8.1 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max
Hour Start 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-Mar-08	3	27	16	15	19	20	16	16	13	13	15	14	16	18	15	13	14	14	12	10	11	9	12	12	14.2	26.7
2-Mar-08	10	9	6	3	2	3	3	4	4	4	6	5	5	6	5	5	5	5	4	3	3	3	3	3	4.4	9.6
3-Mar-08	3	2	3	3	2	2	2	3	4	3	3	4	5	5	5	6	3	4	5	5	5	6	5	5	3.9	5.9
4-Mar-08	3	4	3	2	3	2	3	3	2	2	1	7	8	11	12	13	11	9	5	4	7	6	9	5	5.6	12.8
5-Mar-08	6	4	4	3	3	4	3	2	3	3	5	7	6	10	12	9	6	3	3	4	4	4	4	3	4.7	11.5
6-Mar-08	3	2	2	3	3	3	3	3	3	3	6	8	10	10	13	18	20	16	12	12	13	28	29	20	10.1	29.3
7-Mar-08	10	11	9	7	7	6	4	3	4	4	7	9	9	9	6	6	5	5	3	3	4	3	3	3	5.9	11.3
8-Mar-08	2	3	3	3	4	5	6	6	7	11	17	18	19	16	17	20	19	17	12	9	4	7	4	3	9.6	20.3
9-Mar-08	4	5	10	9	4	5	3	3	3	5	4	7	8	6	7	8	4	6	11	15	19	17	12	4	7.5	19.4
10-Mar-08	5	3	5	4	5	3	4	3	3	4	4	3	3	4	5	4	5	4	5	3	4	6	5	4	4.1	5.7
11-Mar-08	6	7	6	3	3	4	4	8	5	5	7	7	14	15	11	11	15	12	11	10	9	12	13	16	8.8	16.1
12-Mar-08	16	15	11	15	18	21	20	21	25	26	21	22	24	23	19	18	18	15	13	8	9	13	13	11	17.4	26.1
13-Mar-08	8	6	6	6	5	5	6	5	7	6	7	5	5	8	8	8	9	9	6	6	7	6	5	6	6.5	9.1
14-Mar-08	5	6	6	3	3	3	4	3	3	4	6	7	8	8	8	8	9	10	9	9	6	7	10	12	6.6	11.7
15-Mar-08	11	10	9	10	11	10	10	10	10	10	8	8	8	8	8	9	8	7	6	6	3	3	2	2	7.8	10.9
16-Mar-08	2	3	3	2	2	2	3	3	4	4	7	5	6	6	6	5	5	6	4	3	3	3	3	3	3.8	7.0
17-Mar-08	6	13	9	19	21	23	21	23	25	28	28	27	24	22	23	21	22	19	20	18	14	11	11	12	19.2	28.2
18-Mar-08	8	6	3	3	4	3	5	4	6	9	16	21	17	14	14	14	13	8	5	3	7	11	9	5	8.6	20.7
19-Mar-08	5	9	9	7	7	6	12	11	12	16	21	17	15	15	14	11	9	5	3	3	4	3	3	4	9.3	20.9
20-Mar-08	3	4	3	4	3	3	3	3	5	8	7	5	6	7	8	9	10	8	7	5	5	5	5	5	5.4	10.1
21-Mar-08	3	2	2	3	3	4	3	2	3	4	8	9	6	7	7	7	6	6	4	4	4	4	4	3	4.5	9.3
22-Mar-08	3	4	3	3	3	3	2	3	3	3	7	5	6	7	7	11	11	9	8	7	8	9	9	5.8	11.4	
23-Mar-08	10	9	8	6	7	7	8	7	5	6	9	9	7	9	11	14	12	19	11	8	7	10	9	5	8.9	19.4
24-Mar-08	6	4	7	5	4	11	14	18	18	24	27	27	28	27	26	24	22	21	18	14	13	11	12	11	16.2	27.5
25-Mar-08	11	10	10	8	9	7	5	5	11	16	17	16	13	11	9	8	7	9	5	6	3	3	3	4	8.5	17.4
26-Mar-08	4	2	5	3	3	3	5	6	8	10	10	11	13	16	17	16	15	15	12	10	11	10	10	10	9.4	16.9
27-Mar-08	9	8	9	8	6	3	4	3	3	6	10	9	8	9	9	8	8	8	6	4	3	4	4	3	6.4	9.8
28-Mar-08	3	3	3	3	3	5	10	11	10	12	11	12	11	13	11	11	9	9	8	7	7	7	7	8	8.3	13.1
29-Mar-08	5	4	7	7	6	5	4	5	8	8	8	7	10	10	9	9	8	7	6	6	4	3	3	2	6.2	9.7
30-Mar-08	3	2	3	2	3	2	4	2	6	4	5	7	6	8	10	12	12	11	8	6	6	6	4	4	5.7	12.5
31-Mar-08	3	3	3	3	3	3	3	4	10	7	8	8	8	8	10	11	9	6	5	7	9	12	11	12	6.9	12.0
1-hr Average	5.8	6.5	6.0	5.7	5.7	5.9	6.3	6.5	7.5	8.6	10.2	10.5	10.7	11.2	11.0	11.2	10.7	9.7	8.0	7.0	7.0	7.8	7.6	6.7		
Hourly Max	16.4	26.7	16.2	19.4	21.0	23.2	21.3	23.1	24.8	28.2	28.1	27.3	27.5	27.2	26.1	23.6	21.7	21.4	19.9	18.2	19.4	28.1	29.3	19.7		

PASZA - Evergreen Park Vector Wind Speed Monthly Summary

Station: Evergreen Park
Station Owner: PASZA

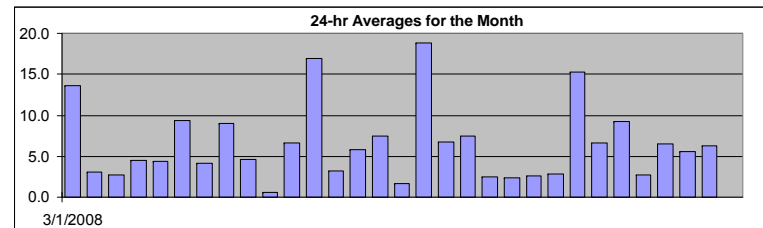
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	29.1	km/hr	6-Mar	22:00 23:00
Maximum 24-hr Value:	18.8	km/hr	17-Mar	



Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	26.5	19.8	10.0	6.1	3.0	1.1	0.5	11.4 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Mar-08	0	26	15	14	18	19	16	16	13	12	14	13	16	17	14	13	13	14	12	10	11	9	12	12	12	13.6	25.8
2-Mar-08	9	8	6	3	1	2	2	4	3	4	5	4	4	5	4	4	5	4	2	2	3	3	0	3	3	3.1	9.0
3-Mar-08	1	1	3	2	2	1	1	1	2	2	3	4	4	5	5	5	3	4	5	5	5	6	5	3	2.7	5.7	
4-Mar-08	2	3	2	1	1	1	2	3	2	2	1	6	8	10	11	13	11	9	5	3	7	6	9	5	4.5	12.6	
5-Mar-08	5	4	4	3	3	4	2	1	2	2	4	6	6	10	11	8	6	2	3	2	4	4	3	3	4.4	11.2	
6-Mar-08	3	2	2	3	2	2	2	2	2	3	6	7	9	10	13	17	20	16	12	12	13	28	29	19	9.4	29.1	
7-Mar-08	10	11	9	7	7	6	3	2	3	2	6	9	9	7	6	5	5	5	2	2	2	2	2	3	4.1	11.1	
8-Mar-08	1	2	2	3	3	5	5	5	7	11	17	18	18	16	17	20	19	16	12	8	3	7	3	2	9.0	20.1	
9-Mar-08	4	5	10	9	4	5	1	1	2	3	2	6	6	4	6	7	1	6	11	14	19	17	12	3	4.6	19.3	
10-Mar-08	2	2	1	1	1	1	3	2	2	4	3	3	3	3	5	4	5	4	3	3	4	6	4	4	0.6	5.7	
11-Mar-08	6	7	6	2	1	2	3	7	3	4	6	7	13	14	11	11	15	12	11	10	8	11	13	16	6.6	16.0	
12-Mar-08	16	15	11	15	18	21	20	21	25	26	21	22	24	23	18	18	18	15	13	7	8	13	13	11	16.9	25.8	
13-Mar-08	7	5	5	6	5	5	6	5	6	5	5	4	4	6	8	8	9	8	6	6	7	6	5	6	3.1	8.6	
14-Mar-08	5	6	6	3	2	3	4	1	2	3	6	5	8	8	7	7	8	10	9	8	6	7	10	12	5.7	11.5	
15-Mar-08	11	9	9	10	10	10	10	9	10	9	8	8	8	8	8	8	8	6	6	6	3	2	2	1	7.4	10.7	
16-Mar-08	1	2	2	1	2	1	2	2	3	3	6	4	4	6	6	4	2	4	2	2	2	2	2	2	1.6	6.2	
17-Mar-08	6	13	9	19	21	23	21	23	25	28	28	27	23	21	22	21	22	19	20	18	14	11	11	12	18.8	28.1	
18-Mar-08	8	5	1	0	3	2	5	4	6	8	15	20	16	13	13	13	13	8	5	3	7	11	9	5	6.7	20.3	
19-Mar-08	5	9	9	7	7	6	12	10	11	16	21	17	15	15	13	10	9	3	3	2	0	0	2	2	7.5	20.7	
20-Mar-08	1	3	2	3	0	2	2	2	4	8	7	4	6	7	7	9	10	8	7	5	5	4	3	4	2.4	9.7	
21-Mar-08	2	2	2	2	2	3	2	2	3	2	7	9	4	6	7	7	6	6	4	1	3	2	1	1	2.4	9.1	
22-Mar-08	3	4	0	1	1	1	2	2	2	1	6	2	1	4	5	10	11	9	8	7	7	8	9	8	2.6	11.3	
23-Mar-08	10	9	8	6	7	7	8	6	3	6	8	9	7	8	10	14	8	19	10	7	7	10	9	4	2.9	18.9	
24-Mar-08	6	1	6	4	3	11	14	18	18	24	27	26	27	27	26	23	22	21	18	14	13	11	12	11	15.3	27.2	
25-Mar-08	11	10	10	7	8	6	4	3	11	16	17	15	11	9	8	7	5	9	5	5	1	0	1	4	6.6	17.0	
26-Mar-08	3	1	5	2	1	3	4	6	8	9	10	10	12	15	17	16	15	15	12	10	11	10	10	10	9.2	16.5	
27-Mar-08	9	8	9	8	6	3	4	2	3	6	10	9	8	8	8	7	8	8	6	4	2	3	3	1	2.7	9.6	
28-Mar-08	1	2	3	3	3	5	10	11	10	10	10	11	11	13	11	10	9	9	8	7	7	7	8	8	6.5	12.7	
29-Mar-08	4	4	6	7	6	4	4	4	7	7	7	5	8	9	8	8	7	7	6	5	4	3	2	2	5.6	8.6	
30-Mar-08	3	2	3	2	3	1	2	1	5	4	2	5	1	7	9	11	12	11	8	6	6	6	3	3	6.2	12.2	
31-Mar-08	1	3	3	3	2	3	1	4	9	7	8	7	8	8	9	10	7	5	4	7	9	12	11	12	0.0	11.9	
1-hr Vector	1.6	2.2	1.5	1.8	2.2	2.8	2.6	3.3	3.8	5.2	6.2	6.5	6.8	6.8	6.6	6.3	5.0	4.3	3.1	2.0	2.2	3.0	2.8	1.8			
Hourly Max	16.3	25.8	15.5	19.3	20.9	23.1	21.2	23.0	24.7	28.1	28.0	27.1	27.2	26.9	25.8	23.4	21.5	21.2	19.8	18.1	19.3	27.9	29.1	19.4			

PASZA - Evergreen Park Standard Deviation of Wind Direction Monthly Summary

Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	92.4	77.0	37.0	20.1	11.5	6.0	4.9

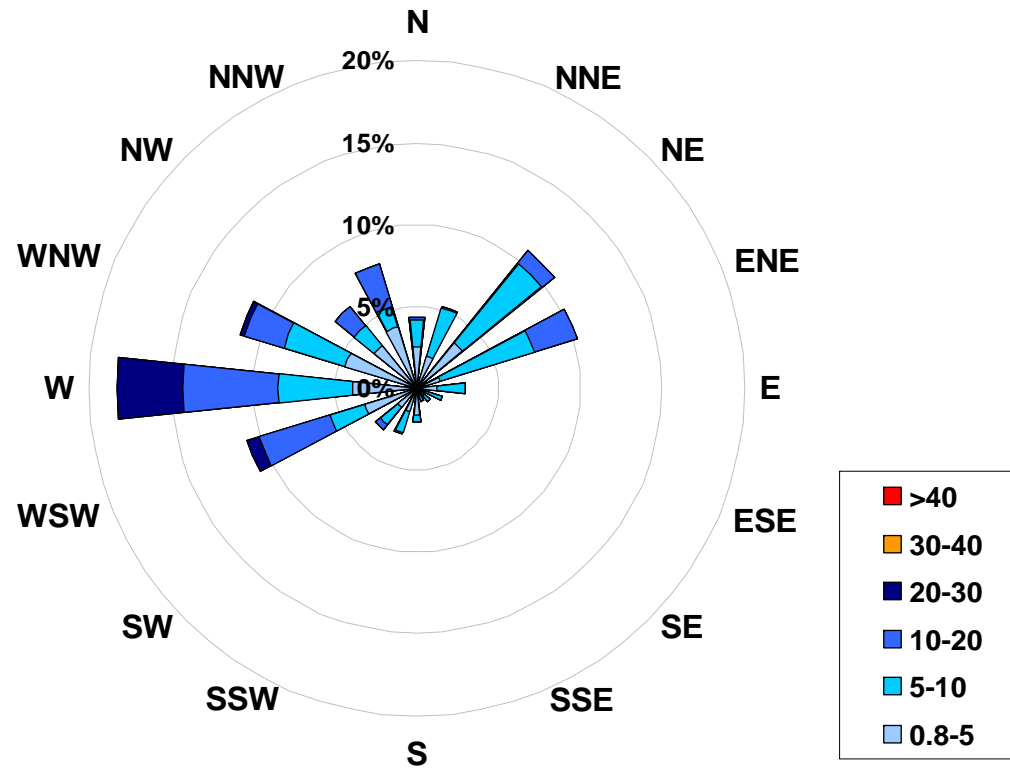
Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00		
1-Mar-08	95	15	17	18	10	9	11	13	14	16	13	17	12	11	16	16	15	10	11	11	9	10	9	9	9	95.3	
2-Mar-08	21	19	15	31	87	49	65	14	27	27	18	34	31	20	24	26	23	20	52	42	40	47	93	38	92.6		
3-Mar-08	95	77	39	29	39	56	70	75	88	70	30	32	27	28	13	28	27	15	11	13	21	17	32	47	95.1		
4-Mar-08	65	32	62	63	79	46	46	26	25	40	45	14	11	10	11	10	9	15	31	49	11	15	5	22	78.7		
5-Mar-08	19	18	17	12	40	23	34	54	35	77	31	36	14	11	13	22	12	23	13	17	16	18	18	24	77.0		
6-Mar-08	26	36	43	28	41	43	43	41	47	28	13	25	19	24	10	10	9	7	13	12	12	7	6	10	46.6		
7-Mar-08	20	11	8	14	16	18	30	44	46	57	32	9	21	41	28	30	24	20	50	48	59	60	32	35	60.1		
8-Mar-08	57	34	36	53	32	13	18	29	11	10	7	11	10	8	10	8	7	7	8	17	43	10	27	67	66.8		
9-Mar-08	32	18	9	6	39	30	81	74	50	63	65	24	41	52	25	29	82	16	8	9	5	7	13	71	82.3		
10-Mar-08	77	65	90	95	82	90	85	61	60	21	30	34	28	52	24	19	15	18	64	30	42	7	9	13	95.1		
11-Mar-08	7	10	16	59	68	69	41	27	61	27	27	31	16	16	17	13	10	10	10	6	21	11	7	7	69.3		
12-Mar-08	6	5	5	5	5	5	5	6	6	8	9	9	7	6	9	9	7	8	8	15	28	7	6	6	28.1		
13-Mar-08	27	34	20	20	15	14	17	21	22	35	38	43	31	32	20	17	19	15	11	6	6	8	8	5	42.9		
14-Mar-08	6	5	7	19	31	22	20	85	34	41	26	37	22	20	28	20	18	11	13	11	14	25	12	11	85.3		
15-Mar-08	12	17	14	12	12	14	11	11	12	13	19	17	18	22	18	16	16	21	15	14	30	52	31	48	52.2		
16-Mar-08	61	57	57	39	31	18	63	77	18	55	28	59	52	22	19	52	67	46	70	76	53	54	69	55	77.4		
17-Mar-08	18	4	21	6	6	6	6	5	6	6	6	7	9	8	8	10	7	7	6	6	5	7	6	8	21.1		
18-Mar-08	16	76	81	88	46	78	26	23	15	20	12	11	11	14	16	13	9	16	19	32	15	4	9	32	87.8		
19-Mar-08	43	6	6	18	26	48	7	11	9	9	8	12	14	12	20	26	22	49	38	66	94	93	61	72	93.8		
20-Mar-08	78	29	42	51	92	45	52	44	31	13	20	54	30	17	19	20	17	14	13	8	18	41	49	31	92.2		
21-Mar-08	42	33	22	25	54	42	33	34	25	68	14	14	46	27	24	28	30	16	21	77	33	59	95	61	94.9		
22-Mar-08	26	29	85	85	82	64	36	50	52	65	12	67	84	59	57	22	9	10	9	5	5	15	11	12	85.3		
23-Mar-08	10	14	14	13	10	17	12	37	64	20	20	19	24	21	25	12	42	14	26	28	13	12	9	41	63.8		
24-Mar-08	25	87	51	32	49	5	6	5	8	7	7	8	10	8	9	8	8	8	7	5	6	6	4	5	86.6		
25-Mar-08	6	7	5	7	10	37	29	57	9	9	12	15	30	43	30	32	48	15	36	18	78	82	71	17	82.2		
26-Mar-08	27	59	13	75	69	33	19	12	12	15	14	19	14	13	12	12	11	13	11	12	10	11	12	12	74.9		
27-Mar-08	11	11	11	11	13	32	26	51	41	22	13	17	21	31	26	34	20	21	15	20	49	44	37	75	74.6		
28-Mar-08	87	29	21	29	17	14	10	15	17	26	25	22	24	14	23	31	16	13	20	20	13	11	13	12	86.6		
29-Mar-08	24	16	18	11	10	16	18	30	26	25	33	46	31	29	31	30	25	27	19	11	9	32	57	39	57.5		
30-Mar-08	14	34	18	25	32	78	56	53	17	40	81	50	94	36	29	15	13	13	13	8	8	11	41	30	94.4		
31-Mar-08	85	22	25	16	42	45	71	30	14	22	20	26	28	29	33	24	39	37	31	16	7	5	5	5	84.6		
Hourly Max	95	87	90	95	92	90	85	85	88	77	81	67	94	59	57	52	82	49	70	77	94	93	95	75			

1-hr Average Wind Rose (in km/hr) Located at the Evergreen Park Site for March 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	266
5	to	10	280
10	to	20	160
20	to	30	38
30	to	40	0
	>	40	0
Total Non-Zero Values			744

PASZA
Smoky Heights Station
Monthly Summary Tables, Graphs and
Roses

PASZA - Smoky Heights Sulphur Dioxide Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

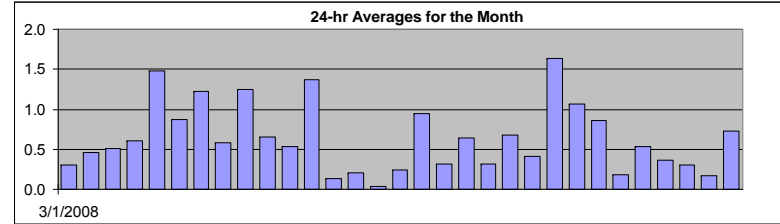
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Number of 1-hr Exceedances:	0		
Number of 24-hr Exceedances:	0		
Maximum 1-hr Average:	7.5 ppb	5-Mar	16:00 17:00
Maximum 24-hr Average:	1.6 ppb	23-Mar	



AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.1	2.5	0.6	0.3	0.2	0.0	0.0	0.6 ppb	0.3 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	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-Mar-08	0	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.2
2-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	1	1	1	1	1	1	1	1	0.5	1.1	
3-Mar-08	1	0	0	0	0	0	0	0	0	0	0	0	A	0	1	1	0	1	1	1	0	0	0	0	0.5	1.3	
4-Mar-08	0	0	0	0	0	0	0	0	0	0	0	A	1	1	1	1	2	2	0	0	0	0	2	0	0.6	2.3	
5-Mar-08	0	1	2	1	1	1	1	1	A	1	1	0	0	0	2	3	8	3	2	2	2	1	1	0	1.5	7.5	
6-Mar-08	0	1	1	0	1	0	0	A	0	0	1	1	0	0	2	1	2	0	2	2	1	1	0	2	0.9	2.0	
7-Mar-08	0	0	1	3	1	3	A	1	1	1	0	1	1	1	3	5	3	1	0	0	0	0	2	1	1.2	5.0	
8-Mar-08	1	1	1	1	0	A	1	1	0	4	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0.6	3.8	
9-Mar-08	0	4	0	1	A	2	2	2	1	1	0	0	0	0	0	0	4	1	1	0	0	0	3	4	1.3	4.4	
10-Mar-08	0	0	0	A	0	0	0	0	0	1	1	0	0	1	2	2	1	1	1	1	1	1	0	0	0.7	1.9	
11-Mar-08	0	0	A	0	0	0	0	0	0	1	1	1	1	0	2	1	1	1	1	0	2	1	0	0	0.5	2.3	
12-Mar-08	0	A	2	6	5	5	4	4	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1.4	6.2	
13-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.4	
14-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.4
15-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.0	0.1	
16-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	A	1	1	0.2	0.9	
17-Mar-08	1	0	0	0	0	0	2	0	3	4	5	1	0	0	0	0	0	0	2	A	1	0	0	0	0.9	5.1	
18-Mar-08	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	A	0	0	0	1	0	0.3	0.8	
19-Mar-08	0	0	0	0	0	0	0	2	3	1	C	C	C	A	1	0	2	1	0	0	0	0	0	0	0.6	3.5	
20-Mar-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.3	0.6	
21-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	1	2	1	1	1	1	1	1	1	1	0	1	0.7	1.8	
22-Mar-08	1	1	1	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.4	1.3	
23-Mar-08	1	1	A	6	5	4	3	2	1	2	2	2	1	1	1	1	0	0	1	1	0	0	1	1	1.6	5.8	
24-Mar-08	3	A	0	0	0	0	0	0	5	1	3	4	0	0	1	1	0	0	0	0	0	2	1	0	1.1	5.3	
25-Mar-08	A	0	1	0	0	0	0	0	1	4	1	3	3	1	0	1	1	0	0	0	0	0	0	A	0.9	3.6	
26-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.4	
27-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	1	1	1	0	0	0	A	1	1	0.5	1.7	
28-Mar-08	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	A	0	0	0.4	1.0	
29-Mar-08	0	0	0	0	0	0	0	0	0	0	2	1	1	1	1	0	0	0	0	A	0	0	0	0	0.3	2.2	
30-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.2	0.3	
31-Mar-08	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	A	5	3	1	0	0	0	0.7	5.4	
Hourly Avg	0.4	0.4	0.4	0.8	0.6	0.7	0.6	0.6	0.8	0.7	0.8	0.7	0.5	0.6	0.7	0.8	0.9	0.6	0.7	0.6	0.4	0.4	0.6	0.6			
Hourly Max	2.8	4.0	2.1	6.2	5.5	5.5	4.1	4.4	5.3	3.8	5.1	4.2	3.2	2.3	2.7	5.0	7.5	3.2	5.4	3.2	1.6	1.6	2.9	4.4			

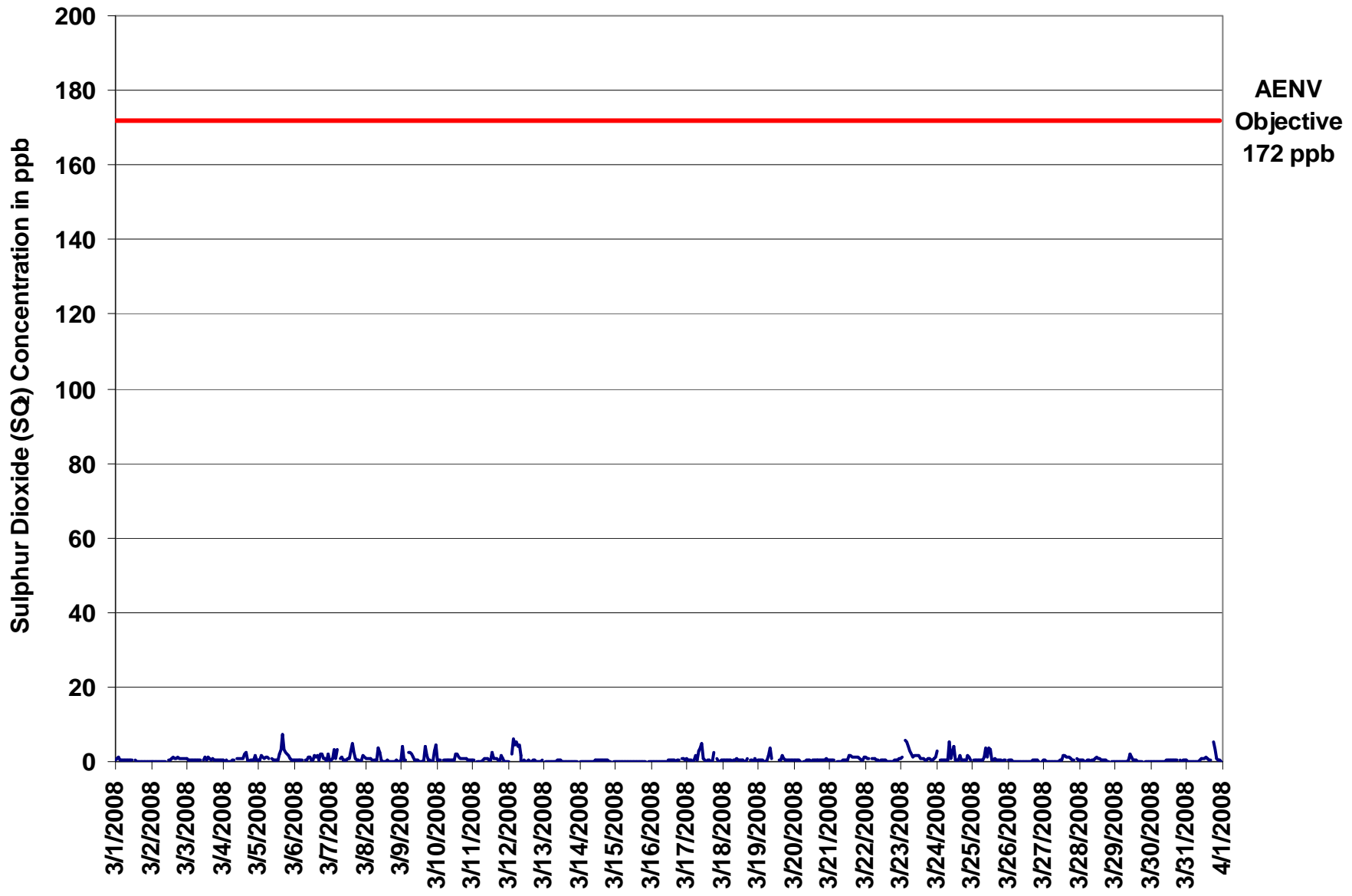


Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

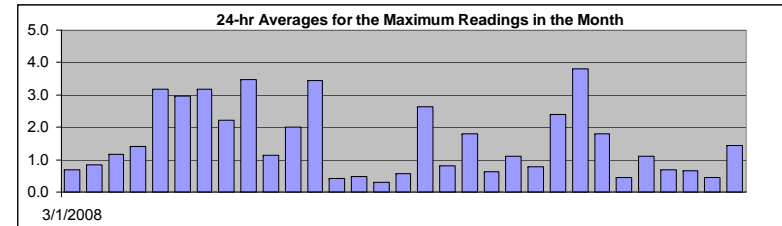
Sulphur Dioxide (SO₂)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	41.5	ppb	24-Mar	8:00 9:00
Maximum 24-hr Value:	3.8	ppb	24-Mar	

AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	13.9	6.5	1.3	0.7	0.4	0.3	0.2	1.6 ppb	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-Mar-08	1	1	4	1	1	1	1	1	1	1	1	1	A	1	0	0	0	0	0	0	0	0	0	0	0.7	3.8
2-Mar-08	0	0	0	0	0	0	0	0	0	0	0	A	1	1	2	1	1	1	1	1	1	1	1	1	0.8	1.6
3-Mar-08	1	1	1	1	1	1	1	1	1	1	A	1	3	1	8	1	1	1	1	1	1	1	1	1	1.2	8.1
4-Mar-08	1	0	0	0	0	0	0	1	1	A	1	1	1	1	1	6	8	1	0	1	1	1	3	1	1.4	8.5
5-Mar-08	1	2	2	2	2	2	2	1	A	1	1	1	1	1	6	13	15	9	4	3	2	2	1	1	3.2	14.8
6-Mar-08	1	1	1	1	1	1	1	A	0	1	2	2	1	1	4	5	5	1	4	5	12	9	0	9	3.0	12.2
7-Mar-08	2	1	7	8	2	7	A	1	2	1	1	1	1	2	6	14	9	1	1	1	1	1	3	2	3.2	14.0
8-Mar-08	1	1	1	1	1	A	1	1	1	19	16	1	0	0	0	2	0	0	0	0	1	1	0	1	2.2	19.5
9-Mar-08	0	7	2	1	A	4	4	3	2	1	1	1	1	0	0	2	6	4	1	1	1	0	12	27	3.5	26.8
10-Mar-08	4	0	1	A	1	1	1	1	1	1	1	1	1	3	2	2	1	1	1	1	1	1	1	1	1.1	3.6
11-Mar-08	1	1	A	0	0	0	0	1	2	1	1	1	1	8	5	4	6	2	1	5	5	0	0	0	2.0	7.5
12-Mar-08	1	A	9	16	15	9	9	5	5	0	0	2	0	0	1	1	1	1	1	1	0	0	0	1	3.5	15.7
13-Mar-08	A	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	A	0.4	0.7
14-Mar-08	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	0	0	A	0	0.5	0.7
15-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	0.4
16-Mar-08	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	A	1	1	2	0.6	1.6
17-Mar-08	1	1	1	1	0	1	3	1	7	11	9	4	2	1	3	2	0	0	9	A	3	0	0	1	2.6	11.1
18-Mar-08	1	1	1	1	0	1	0	1	1	1	1	0	1	1	1	0	1	3	A	1	1	1	3	0	0.8	3.2
19-Mar-08	1	1	1	1	0	0	1	6	8	2	C	C	C	A	1	1	5	4	1	1	1	1	1	1	1.8	8.2
20-Mar-08	1	1	1	0	0	A	0	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0.6	1.0
21-Mar-08	1	1	1	0	A	0	0	0	0	1	1	1	1	3	2	2	2	1	2	1	1	1	1	2	1.1	3.2
22-Mar-08	2	1	1	A	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	1	1	1	1	0.8	2.0
23-Mar-08	1	2	A	6	6	5	4	3	2	2	2	2	2	1	1	1	1	1	2	1	1	1	2	6	2.4	6.4
24-Mar-08	7	A	1	0	1	1	1	1	42	2	6	7	1	1	1	4	0	1	0	1	0	6	3	1	3.8	41.5
25-Mar-08	A	1	1	1	1	1	0	1	3	7	2	6	7	1	1	2	1	1	1	1	0	1	1	A	1.8	7.5
26-Mar-08	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	A	0	0.5	0.7
27-Mar-08	0	0	0	0	0	0	0	0	0	0	0	1	1	4	3	3	2	2	1	1	1	A	1	1	1.1	4.5
28-Mar-08	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	0	0	1	0	A	0	0	0	0	0.7	1.4
29-Mar-08	0	0	0	0	0	0	0	0	1	1	3	2	1	1	1	0	0	0	A	0	0	0	0	0	0.7	3.1
30-Mar-08	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	1	A	1	1	1	1	1	0.5	0.7
31-Mar-08	1	0	0	0	0	0	0	0	0	1	1	1	1	2	1	1	1	A	9	6	2	1	2	0	1.4	8.8
Hourly Avg	1.1	0.9	1.3	1.6	1.3	1.4	1.1	1.1	2.8	2.0	1.9	1.4	1.1	1.3	1.8	2.3	2.3	1.4	1.5	1.2	1.4	1.1	1.4	2.2		
Hourly Max	6.9	7.2	9.3	15.7	14.7	9.4	9.0	6.0	41.5	19.5	15.5	7.4	6.7	7.5	8.1	14.0	14.8	8.9	9.1	6.5	12.2	9.2	11.6	26.8		

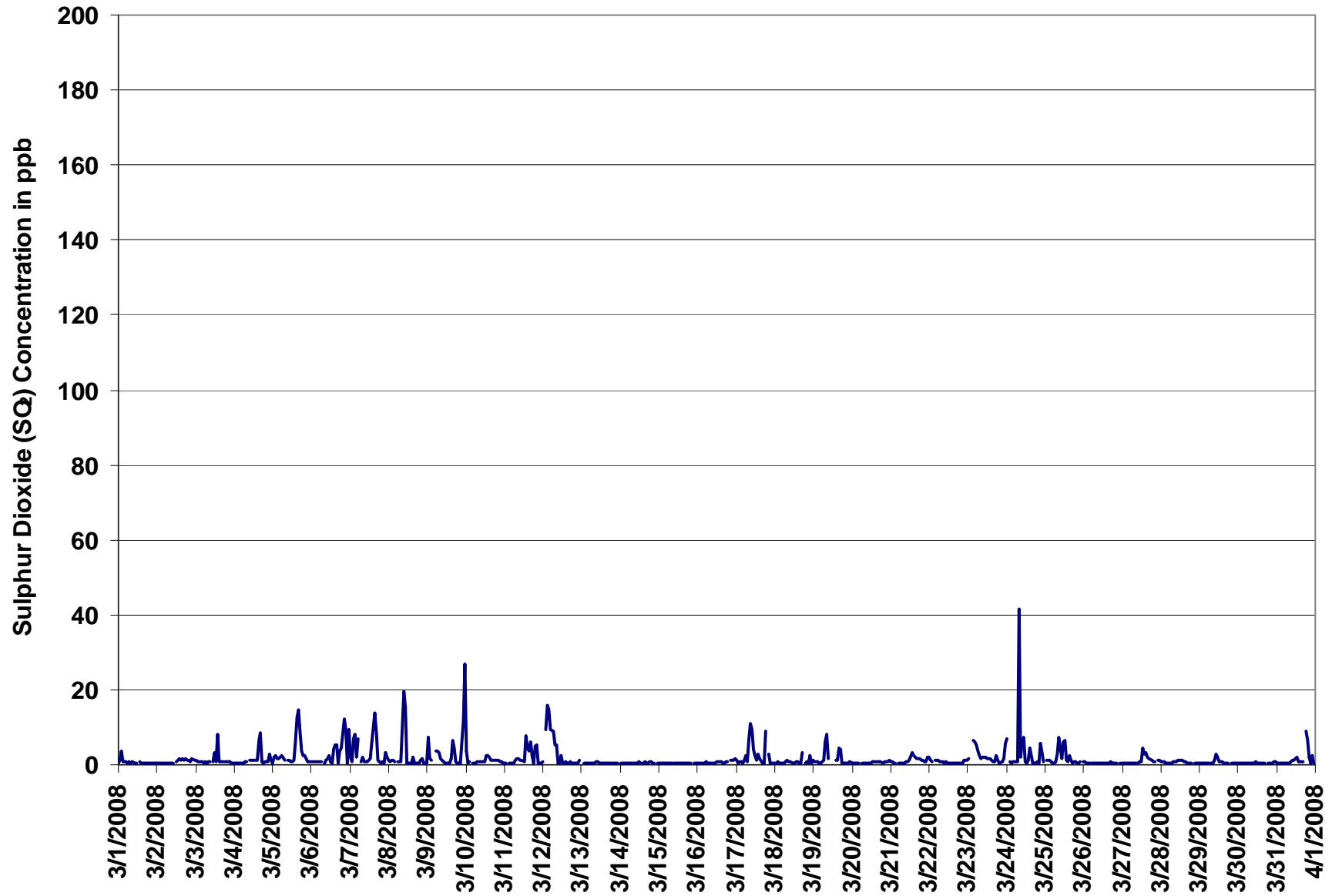
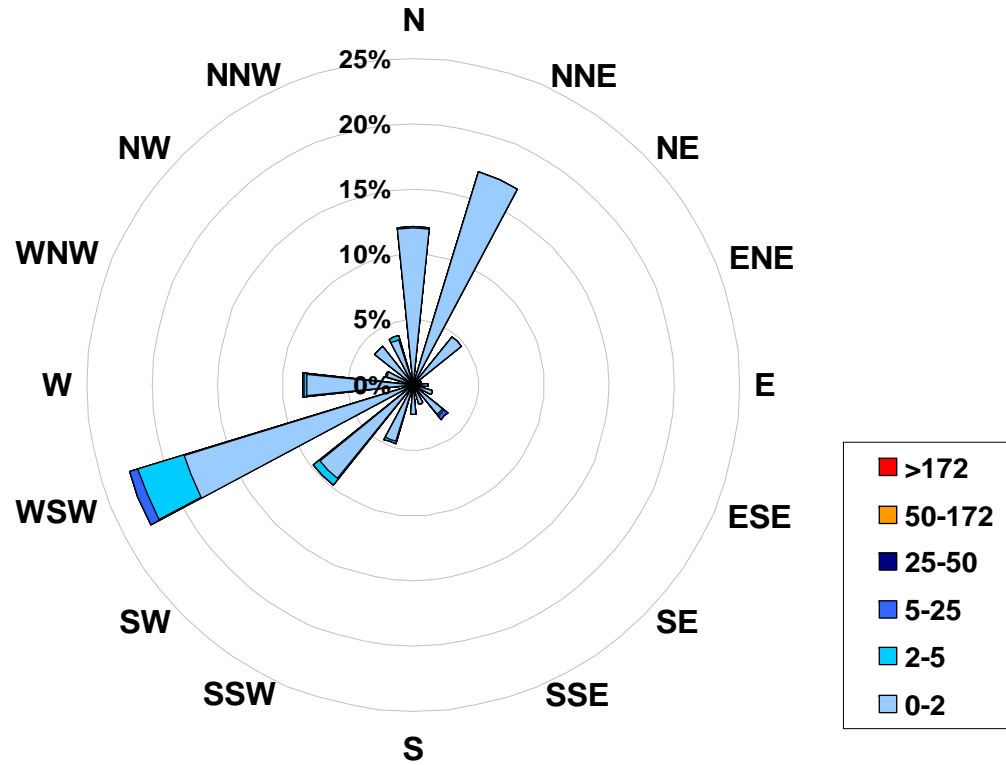


Figure 28. PASZA - Smoky Heights Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Smoky Heights Site for March 2008



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	< 2		662
2	to 5		38
5	to 25		8
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			708

PASZA - Smoky Heights Total Reduced Sulphur Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

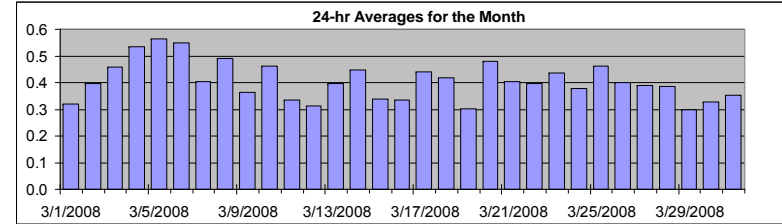
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Maximum 1-hr Average:	0.8	ppb	6-Mar	6:00 7:00
Maximum 24-hr Value:	0.6	ppb	5-Mar	



AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.7	0.6	0.5	0.4	0.3	0.3	0.2	0.4 ppb	0.4 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00		
1-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
2-Mar-08	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	1	0.4	0.6	
3-Mar-08	0	0	0	0	1	0	0	0	0	0	A	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0.5	0.5	
4-Mar-08	1	0	0	0	1	1	0	1	1	A	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0.5	0.8	
5-Mar-08	0	0	1	0	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	0.6	0.8	
6-Mar-08	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0.6	0.8	
7-Mar-08	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0.4	0.6	
8-Mar-08	0	1	1	1	1	A	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.6	
9-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	
10-Mar-08	0	0	0	A	1	0	1	1	1	0	0	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0.5	0.6	
11-Mar-08	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	
12-Mar-08	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	0.3	0.4	
13-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.4	0.5	
14-Mar-08	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	1	1	0	0	1	A	0	0	0.4	0.5	
15-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	0.4	
16-Mar-08	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	
17-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	A	0	0	0	0	0	0.4	0.5	
18-Mar-08	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.4	0.5	
19-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0.3	0.4	
20-Mar-08	0	0	0	0	0	A	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	1	1	0	0	0.5	0.7	
21-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.4	0.5	
22-Mar-08	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	
23-Mar-08	0	0	A	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.4	0.5	
24-Mar-08	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	
25-Mar-08	A	0	0	1	1	0	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	A	0	0.5	0.6	
26-Mar-08	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.4	0.6	
27-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	A	0	0	0.4	0.5	
28-Mar-08	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	0.4	0.5	
29-Mar-08	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-Mar-08	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	
31-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.4	0.5	
Hourly Avg	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4		
Hourly Max	0.6	0.7	0.7	0.7	0.7	0.7	0.8	0.6	0.7	0.8	0.6	0.6	0.6	0.8	0.6	0.8	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.6		

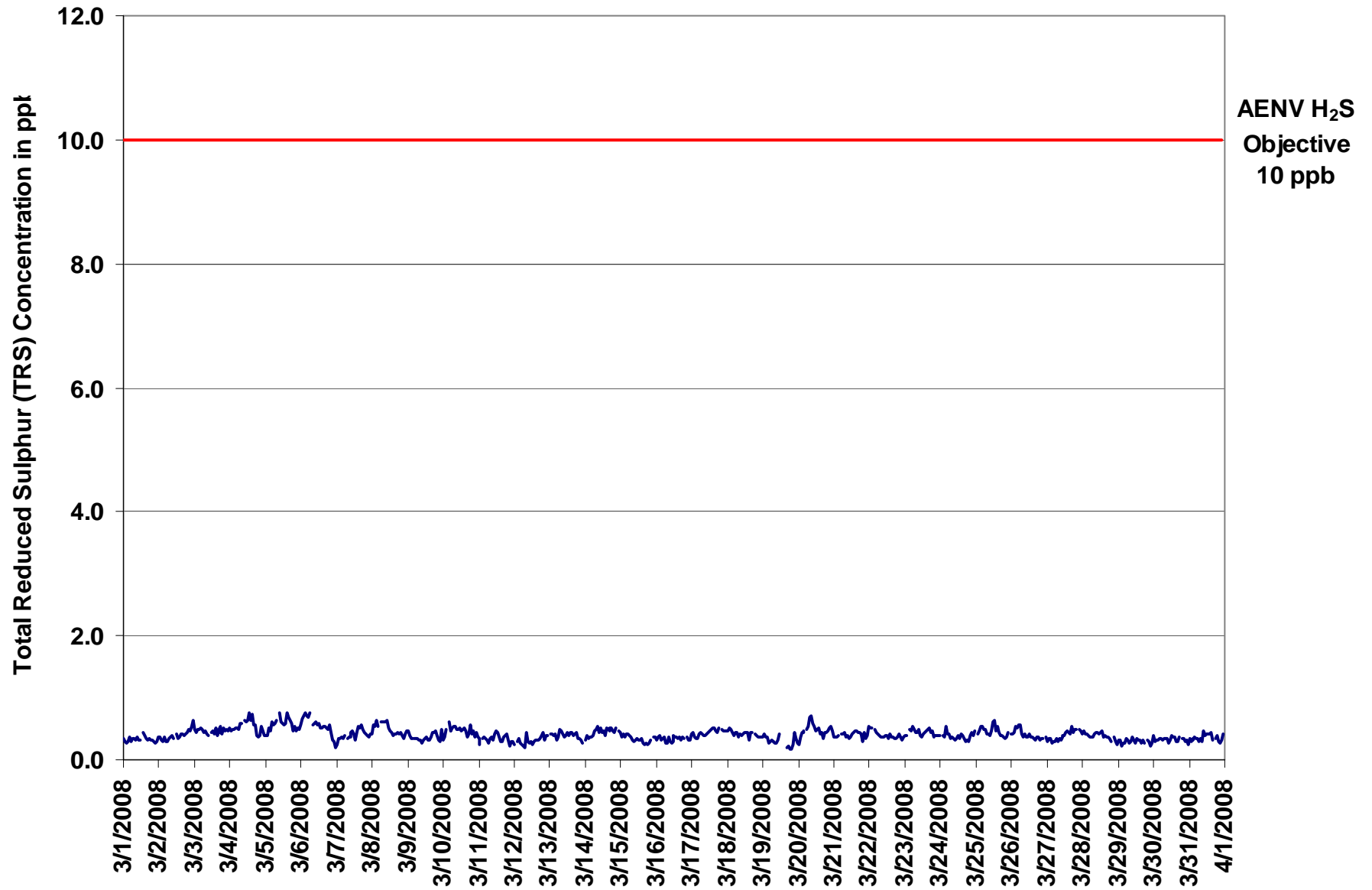


Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

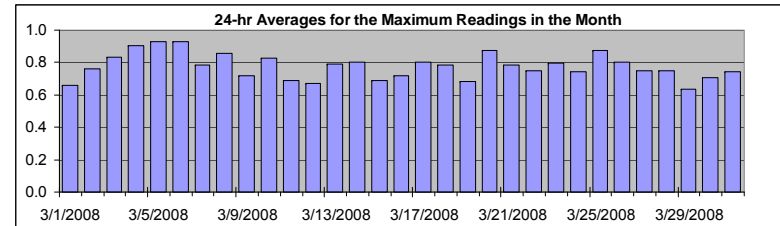
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	1.3	ppb	20-Mar	8:00 9:00
Maximum 24-hr Value:	0.9	ppb	5-Mar	



AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.8 ppb	0.8 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	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-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
2-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
3-Mar-08	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
4-Mar-08	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
5-Mar-08	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
6-Mar-08	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
7-Mar-08	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	0.9
8-Mar-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
9-Mar-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0
10-Mar-08	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
11-Mar-08	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-Mar-08	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
13-Mar-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.0
14-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	1.0
15-Mar-08	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	0.9
16-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.7	0.9
17-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.8	0.9
18-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.8	1.0
19-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	C	C	C	A	0	1	1	1	1	1	1	1	0.7	0.9
20-Mar-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.3
21-Mar-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	0.9
22-Mar-08	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
23-Mar-08	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
24-Mar-08	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
25-Mar-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.1
26-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	1.2
27-Mar-08	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
28-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.7	0.9
29-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.6	0.7
30-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.7	0.8
31-Mar-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.7	1.0
Hourly Avg	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.8		
Hourly Max	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.0	1.3	1.2	1.0	1.1	1.0	1.1	1.0	1.2	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.1		

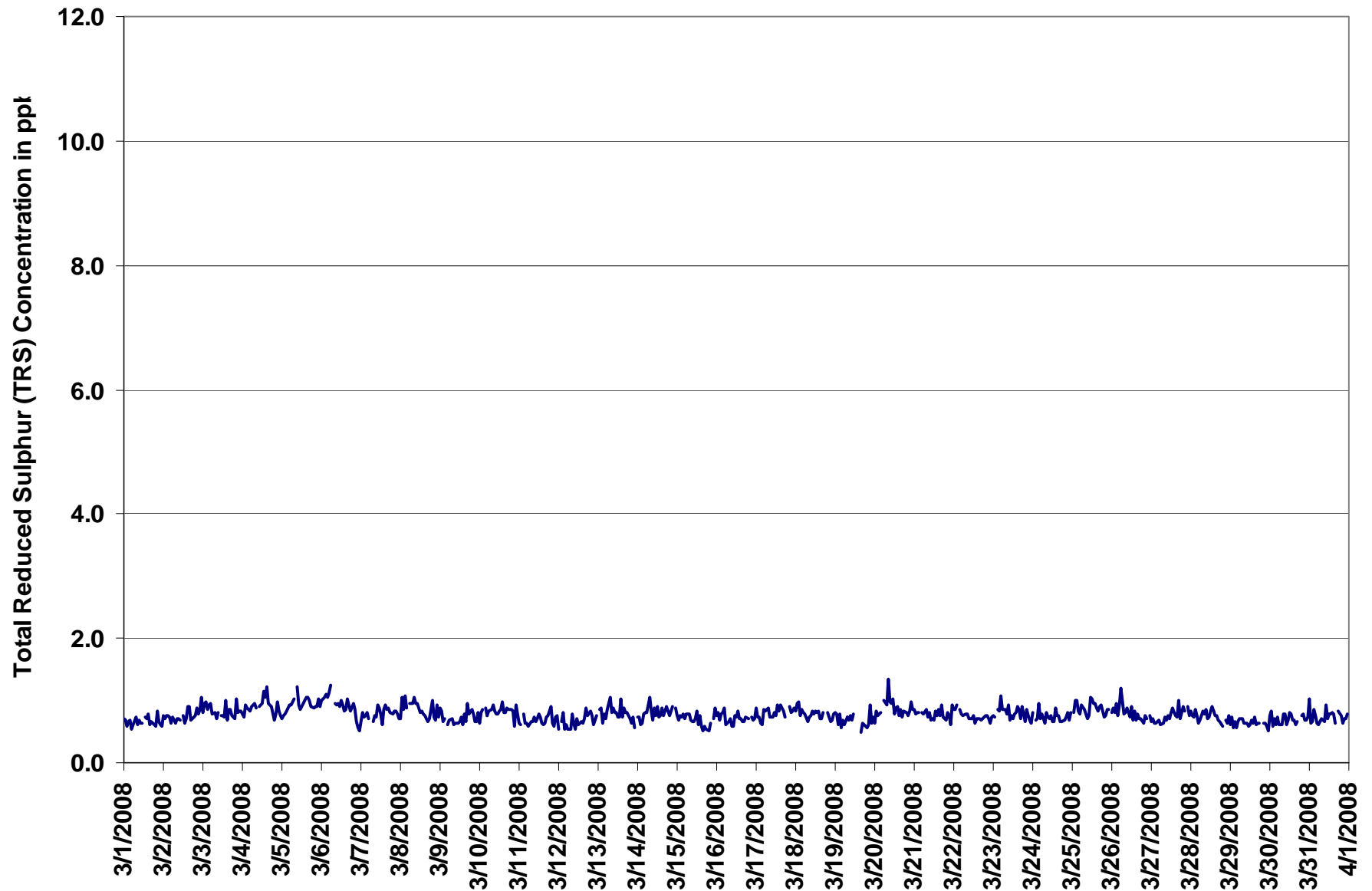
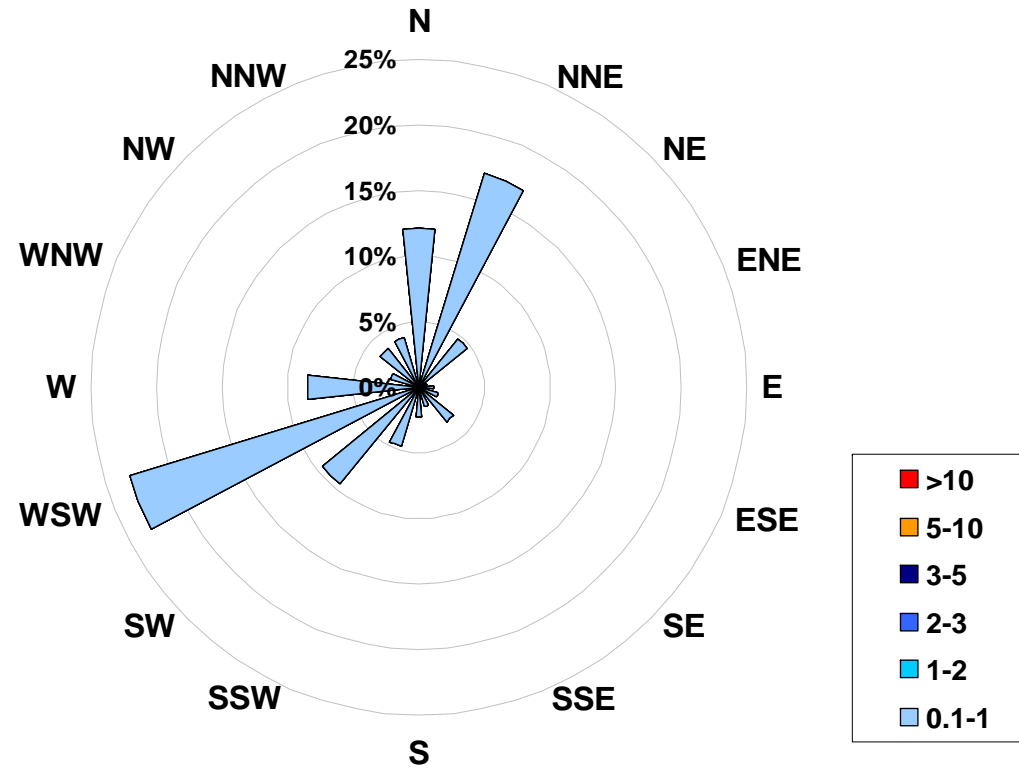


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Smoky Heights Site for March 2008**



Calms: 0%

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

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

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

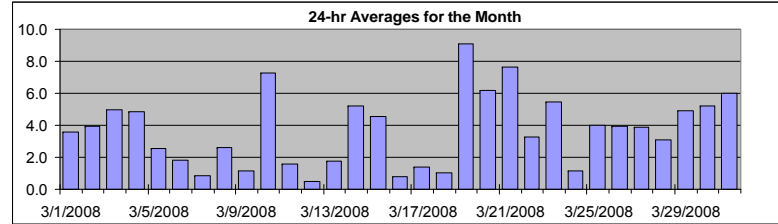
Particulate Matter (PM_{2.5})

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Number of 24-hr Exceedances (draft):	0			
Maximum 1-hr Average:	132.6	µg/m ³	19-Mar	21:00 22:00
Maximum 24-hr Value:	9.1	µg/m ³	19-Mar	

AIC Time:	0 hrs	Operational Time:	729 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	98.0%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	28.1	12.4	4.6	2.0	0.2	0.0	0.0	3.7 2 µg/m ³	2.9 µg/m ³



Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00			22:00 23:00
1-Mar-08	7	18	6	D	0	0	3	1	1	2	2	3	2	2	5	4	3	3	3	3	4	5	4	3.6	17.6	
2-Mar-08	5	3	5	2	2	1	1	3	7	6	11	5	1	1	2	4	4	3	5	4	4	5	7	5	4.0	10.7
3-Mar-08	5	9	11	8	9	4	6	8	7	6	4	2	2	0	0	0	3	3	6	4	7	7	7	4.9	10.8	
4-Mar-08	6	6	5	9	3	5	4	5	8	15	4	6	6	3	3	6	6	1	D	7	1	1	1	4.8	14.9	
5-Mar-08	0	3	1	0	0	1	0	1	3	4	3	6	5	3	2	5	4	9	4	1	5	0	2	2.6	9.0	
6-Mar-08	4	0	3	0	1	0	0	4	8	6	0	4	2	2	2	0	0	0	1	0	0	1	2	3	1.8	7.7
7-Mar-08	3	1	0	1	0	0	0	0	1	2	2	2	1	2	0	0	0	3	1	0	1	1	0	0.9	3.0	
8-Mar-08	0	4	5	4	4	8	6	6	5	5	2	3	2	0	D	1	2	2	0	0	0	1	0	2.6	7.7	
9-Mar-08	1	1	0	0	0	1	1	0	2	1	1	1	0	4	1	2	2	3	1	4	1	1	0	1.1	3.6	
10-Mar-08	0	0	0	0	0	1	0	0	1	3	3	2	2	3	4	4	4	4	11	5	19	29	77	7.3	77.4	
11-Mar-08	0	0	6	11	13	D	0	0	0	1	0	2	1	0	D	0	0	0	0	0	0	0	0	1.6	13.3	
12-Mar-08	0	0	0	0	0	0	0	0	0	0	1	0	6	0	4	0	0	0	0	0	0	0	0	0.5	6.1	
13-Mar-08	0	0	0	0	7	0	8	14	5	5	D	0	0	0	D	0	0	0	0	0	0	0	0	1.8	14.2	
14-Mar-08	2	1	4	0	0	2	2	24	26	0	4	6	7	3	3	3	6	9	16	7	0	0	0	5.2	25.6	
15-Mar-08	0	0	0	0	0	1	1	1	1	2	3	3	9	5	0	0	2	1	2	12	18	15	29	4.5	29.1	
16-Mar-08	D	D	0	0	0	0	0	3	4	3	0	0	0	0	0	0	0	1	1	2	1	2	1	0.8	3.7	
17-Mar-08	0	3	5	3	4	2	2	0	1	1	1	0	0	0	2	4	0	2	0	0	1	1	1	1.4	4.9	
18-Mar-08	0	0	0	0	1	0	1	0	1	1	1	0	3	0	1	0	1	2	0	1	2	3	3	1.0	3.3	
19-Mar-08	4	3	2	3	4	1	0	1	2	1	1	1	1	0	0	0	0	0	2	3	3	133	53	9.1	132.6	
20-Mar-08	D	0	0	4	2	0	26	17	0	0	0	1	2	1	2	3	13	7	29	1	8	14	6	7	6.2	28.9
21-Mar-08	4	3	5	6	23	19	9	15	14	2	3	3	3	6	6	5	5	6	6	5	18	5	6	7	7.7	22.6
22-Mar-08	7	4	8	3	3	5	4	6	7	6	2	D	0	0	D	D	0	D	0	0	1	3	3	4	3.3	8.5
23-Mar-08	2	3	6	8	7	7	6	6	7	9	7	5	5	9	6	7	7	9	15	0	0	0	0	5.5	14.9	
24-Mar-08	0	0	1	0	1	0	1	2	2	3	3	1	0	0	5	0	2	2	0	2	1	0	0	1.1	4.5	
25-Mar-08	1	1	0	0	0	0	0	1	2	3	3	1	0	0	D	1	0	5	46	4	2	4	13	3	4.0	46.4
26-Mar-08	6	7	44	14	1	6	0	1	1	1	1	1	2	0	0	0	0	0	2	2	1	1	1	4.0	43.6	
27-Mar-08	2	2	2	2	3	2	3	4	4	3	5	8	6	4	3	3	4	2	3	4	6	5	5	10	3.9	9.7
28-Mar-08	1	1	4	3	5	4	1	4	6	0	0	1	3	3	1	3	2	5	3	4	2	12	1	4	3.1	12.0
29-Mar-08	18	17	0	7	10	4	1	2	2	4	3	2	1	1	6	2	5	2	4	16	5	7	0	4.9	17.7	
30-Mar-08	1	1	3	10	16	4	3	8	5	19	3	2	0	0	0	0	2	7	1	7	12	11	5	5	5.2	19.1
31-Mar-08	22	6	10	17	9	10	10	8	6	3	3	3	5	2	3	3	0	0	1	6	7	2	3	2	6.0	22.0
Hourly Avg	3.5	3.3	4.5	3.9	4.1	3.0	3.2	4.6	4.5	3.8	2.6	2.4	2.5	1.8	2.1	2.1	2.3	3.1	5.3	3.4	4.1	8.7	7.5	2.3		
Hourly Max	22.0	17.6	43.6	17.2	22.6	18.7	26.0	23.7	25.6	19.1	10.7	7.5	9.4	8.9	5.9	7.4	12.6	9.2	46.4	16.1	19.1	132.6	77.4	9.7		

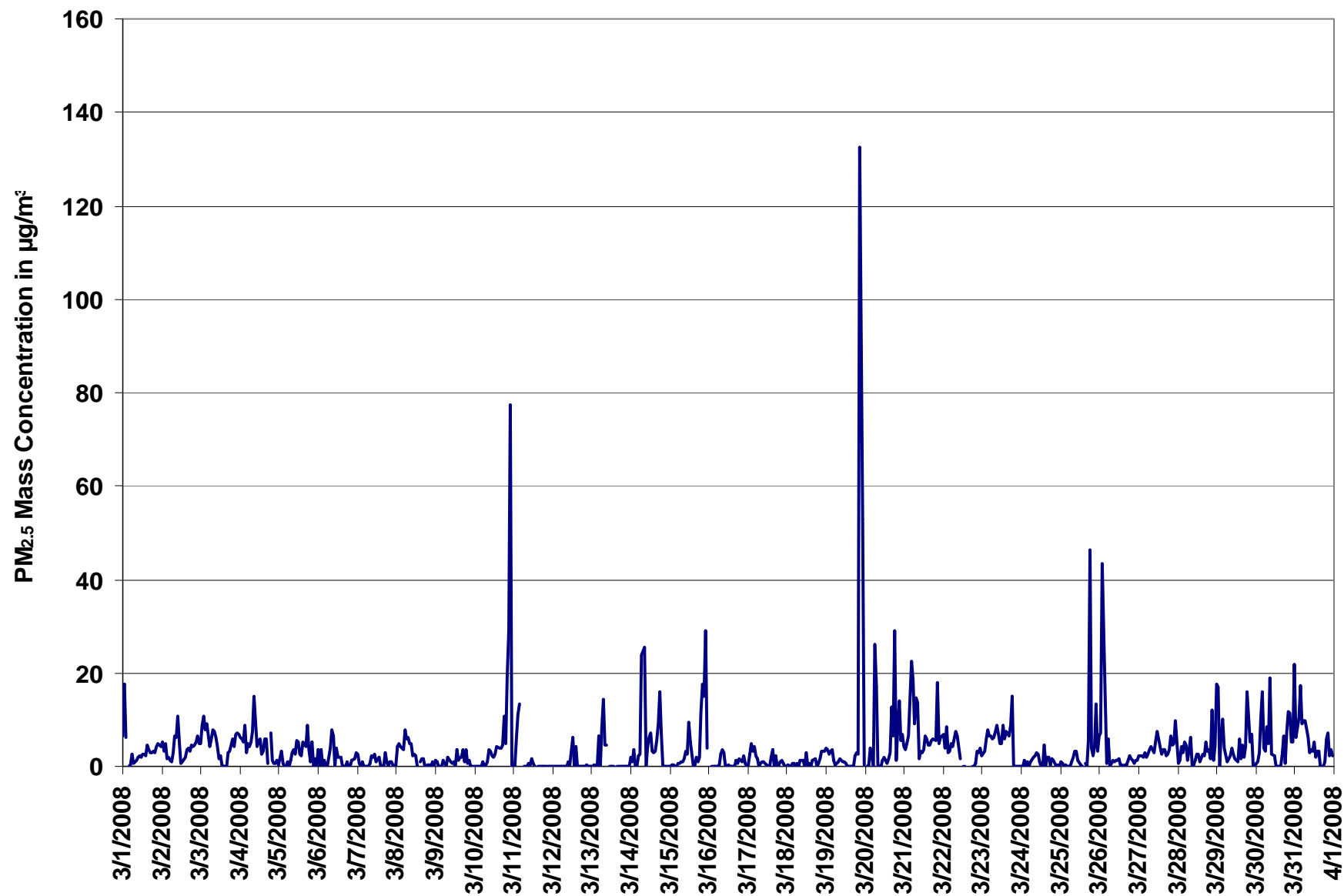


Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

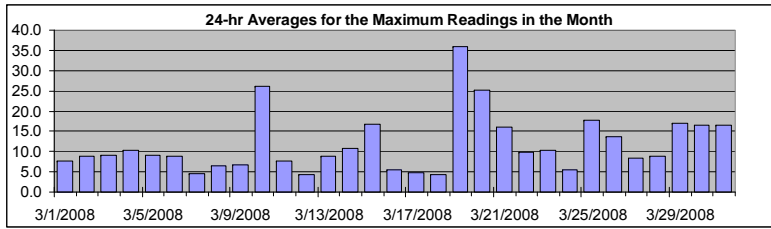
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	363.2	µg/m ³	19-Mar	21:00 22:00
Maximum 24-hr Value:	35.9	µg/m ³	19-Mar	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	105.9	33.3	10.8	6.4	3.9	1.6	0.4	11.7	6 µg/m ³

Status Flag Characters

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

Day Mountain Standard Time

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-Mar-08	11	26	26	4	2	3	12	6	4	5	5	5	5	4	8	7	6	5	6	6	8	8	6	7.6	26.5	
2-Mar-08	11	8	11	4	6	7	6	6	14	14	26	15	8	6	5	6	7	6	7	9	10	8	9	8.9	25.6	
3-Mar-08	12	29	27	12	11	7	10	11	12	11	6	4	4	2	3	4	1	7	6	9	7	9	8	9	9.2	29.3
4-Mar-08	8	8	8	13	8	9	8	11	17	25	12	13	17	5	5	8	8	5	3	29	9	4	4	7	10.2	29.4
5-Mar-08	6	7	6	4	3	3	2	5	9	7	7	10	11	8	6	10	7	27	13	11	25	10	8	11	9.0	27.3
6-Mar-08	16	10	13	8	8	7	11	16	18	19	4	7	4	7	8	5	6	3	6	5	5	11	6	8	8.8	18.7
7-Mar-08	5	4	2	2	1	3	2	3	5	5	4	7	6	10	7	7	3	6	4	2	4	7	5	6	4.5	10.1
8-Mar-08	9	8	8	10	9	14	8	9	9	12	9	5	7	1	0	7	6	6	2	3	5	2	3	2	6.4	13.9
9-Mar-08	3	2	2	5	4	15	5	5	9	5	5	8	5	14	14	14	17	8	9	8	2	3	1	2	6.8	17.0
10-Mar-08	2	5	4	2	2	8	3	5	7	7	6	6	10	8	9	12	9	26	29	15	45	124	277	8	26.1	276.9
11-Mar-08	6	12	33	32	49	0	2	6	2	2	2	5	5	5	1	2	4	5	5	3	0	1	1	0	7.6	48.7
12-Mar-08	1	0	0	0	1	1	1	2	2	2	6	7	20	12	17	6	5	7	3	3	2	4	1	1	4.4	20.4
13-Mar-08	3	1	5	2	37	13	27	59	12	11	5	3	2	3	2	5	6	4	3	1	1	1	2	3	8.8	59.0
14-Mar-08	4	3	9	2	4	6	10	42	42	4	15	12	14	7	6	8	12	19	21	17	2	0	0	1	10.8	42.0
15-Mar-08	2	2	3	1	2	4	2	2	4	4	10	5	33	27	2	3	5	4	6	71	48	52	80	31	16.8	80.2
16-Mar-08	5	0	4	2	3	6	5	6	7	15	17	5	3	4	2	1	7	7	9	7	7	7	2	2	5.4	17.3
17-Mar-08	3	6	7	6	6	5	5	2	2	2	3	3	4	6	11	11	7	8	4	5	3	4	2	2	4.8	11.0
18-Mar-08	2	2	1	3	3	4	4	5	2	5	5	4	7	4	5	4	7	5	2	5	6	8	5	5	4.2	8.3
19-Mar-08	6	7	7	7	6	4	4	3	3	3	3	7	5	5	4	4	3	4	17	12	29	363	318	37	35.9	363.2
20-Mar-08	2	11	12	39	18	4	161	84	8	3	2	6	5	4	6	9	25	14	59	32	49	25	15	13	25.3	160.9
21-Mar-08	7	7	9	14	34	48	21	31	24	24	8	6	6	11	10	8	8	10	7	8	51	12	10	10	16.0	50.7
22-Mar-08	10	10	17	7	9	17	13	11	13	18	23	8	11	6	5	6	7	2	6	5	4	13	6	6	9.7	23.0
23-Mar-08	4	6	8	10	8	9	9	9	12	13	10	9	15	15	11	13	12	27	31	6	6	4	1	2	10.4	30.7
24-Mar-08	0	4	7	6	4	4	5	7	10	5	7	5	4	9	15	12	9	5	3	4	4	2	2	2	5.6	14.7
25-Mar-08	2	2	1	2	2	2	4	3	3	5	7	4	5	3	8	7	10	13	143	109	21	19	36	13	17.6	142.9
26-Mar-08	24	33	131	44	8	12	10	3	3	3	5	4	5	3	5	4	3	6	6	4	3	3	4	4	13.7	130.9
27-Mar-08	4	5	5	5	5	3	5	5	8	6	10	11	10	8	5	12	6	5	4	5	22	13	11	32	8.5	32.4
28-Mar-08	18	5	12	7	9	10	2	13	17	10	3	5	5	6	5	7	7	8	5	7	4	27	3	19	9.0	26.5
29-Mar-08	49	72	2	37	40	10	5	4	4	7	6	5	4	10	16	6	14	7	11	42	25	27	4	5	17.0	71.8
30-Mar-08	5	6	7	41	31	7	9	17	30	33	6	6	5	9	5	8	8	21	8	27	37	45	15	8	16.4	44.8
31-Mar-08	102	14	22	26	14	14	20	20	13	9	9	11	13	12	12	9	9	4	10	17	19	5	7	7	16.6	102.3
Hourly Avg	11.1	10.2	13.1	11.5	11.2	8.3	12.6	13.3	10.4	9.5	7.9	6.8	8.3	7.5	6.9	7.2	7.7	9.2	14.2	15.7	14.9	26.6	27.7	8.7		
Hourly Max	102.3	71.8	130.9	44.3	48.7	47.6	160.9	84.4	41.7	33.3	25.6	15.5	32.8	26.6	17.3	13.5	25.0	27.3	142.9	108.6	50.7	363.2	318.3	36.9		

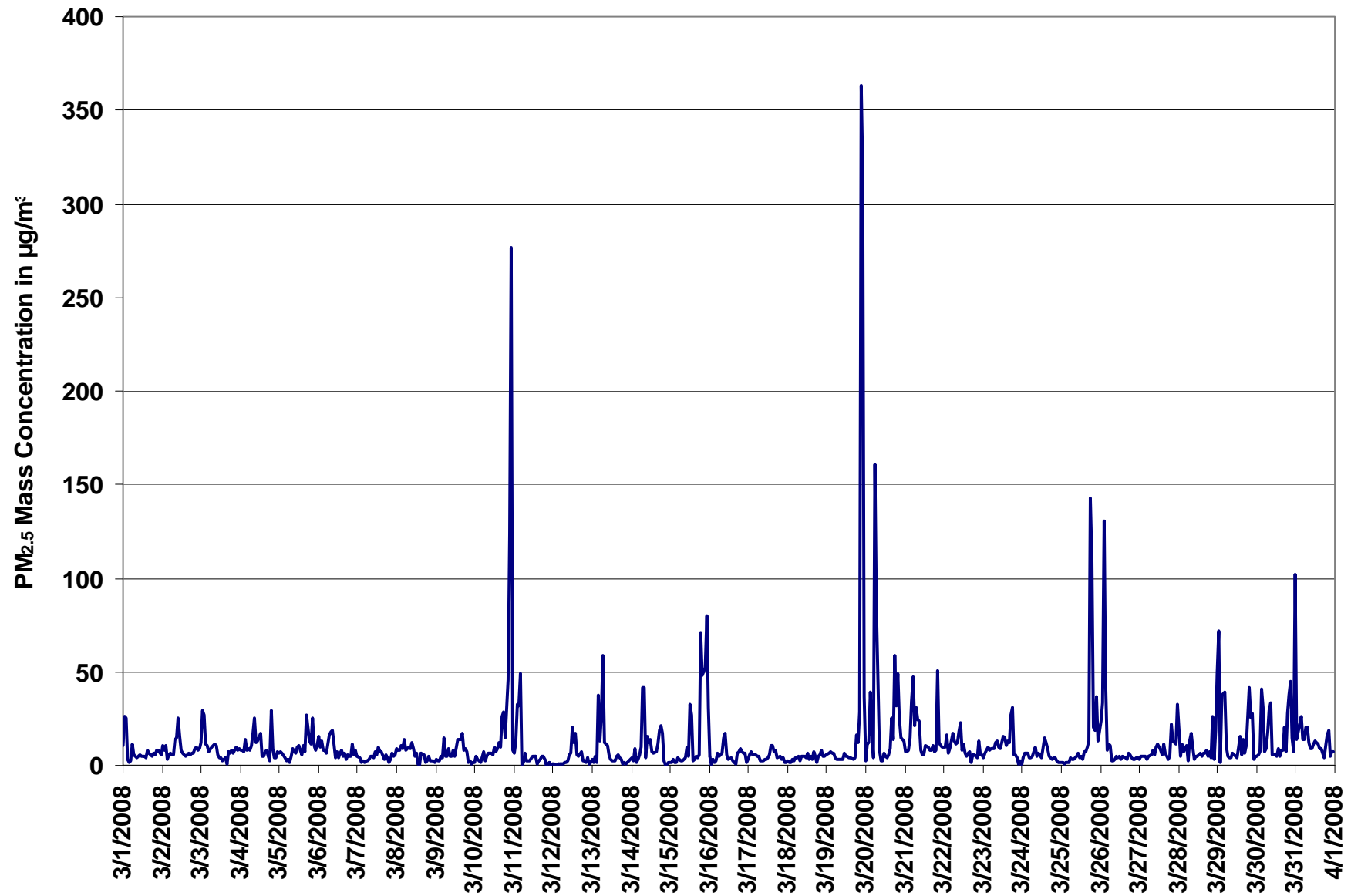
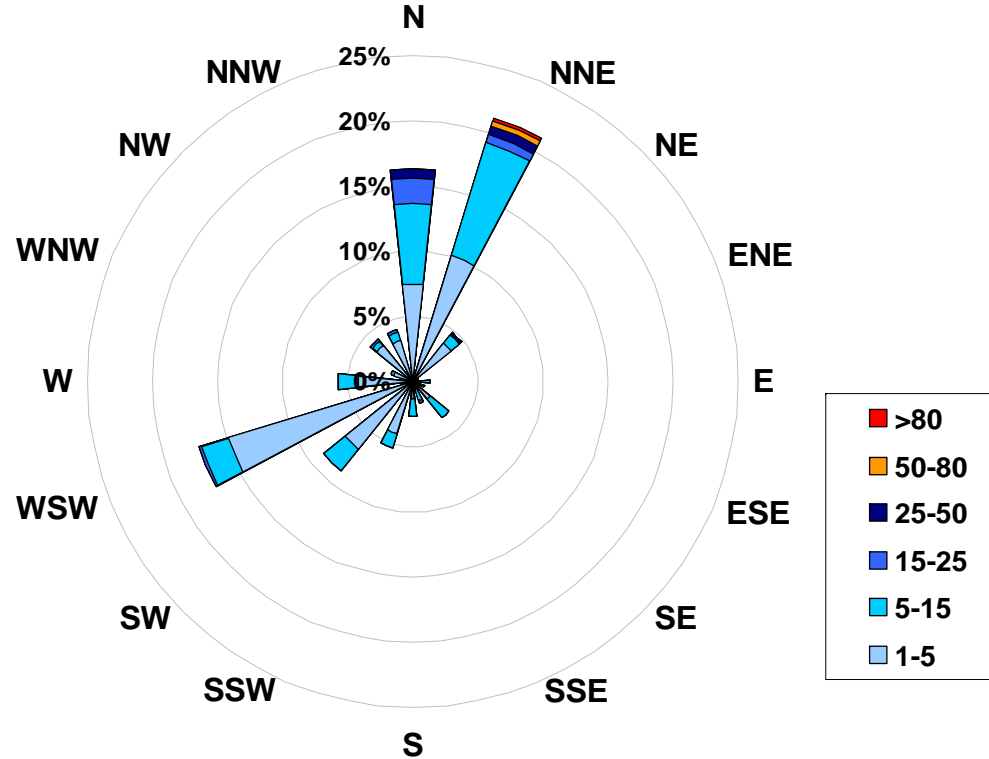


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Smoky Heights Site for March 2008



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range		Frequency (hrs)	
1.0	< 5	565	
5	to 15	138	
15	to 25	16	
25	to 50	7	
50	to 80	2	
	> 80	1	
Total Non-Zero Values			729

PASZA - Smoky Heights Temperature Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

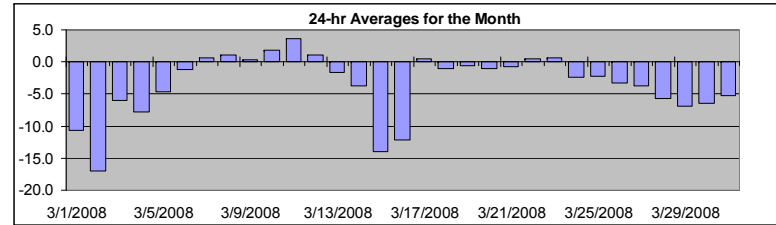
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	8.1 °C	22-Mar	14:00 15:00
Maximum 24-hr Value:	3.6 °C	11-Mar	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	7.2	4.9	1.4	-2.9	-6.7	-15.2	-23.1	-3.5 °C	-2.9 °C

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum			
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00	0:00
1-Mar-08	1	1	1	-1	-4	-6	-7	-10	-12	-13	-13	-13	-13	-13	-13	-13	-14	-14	-14	-15	-16	-16	-16	-16	-17	-18	-10.6	0.9
2-Mar-08	-19	-20	-22	-24	-24	-25	-26	-25	-24	-20	-19	-16	-14	-15	-15	-13	-12	-12	-11	-11	-11	-11	-11	-11	-10	-10	-17.0	-9.8
3-Mar-08	-9	-10	-9	-8	-7	-7	-7	-6	-5	-3	-1	0	0	1	0	-2	-4	-7	-8	-9	-10	-11	-12	-12	-12	-6.0	0.6	
4-Mar-08	-12	-12	-12	-12	-14	-16	-15	-17	-16	-13	-10	-5	-3	-2	-1	-1	0	-1	0	0	-5	-6	-5	-7	-7	-7.7	0.1	
5-Mar-08	-8	-7	-5	-7	-9	-9	-10	-11	-10	-7	-5	-3	0	2	3	2	3	2	2	-2	-5	-4	-8	-6	-8	-4.7	3.2	
6-Mar-08	-8	-7	-7	-8	-8	-9	-9	-10	-8	-6	-3	-1	2	4	5	6	7	7	5	5	5	4	4	4	4	-1.1	7.2	
7-Mar-08	3	2	1	1	-2	-4	-5	-5	-4	-3	-1	1	4	5	5	6	7	6	3	2	0	-1	-2	-3	0.7	7.3		
8-Mar-08	-4	-3	-3	-4	-5	-3	-2	-2	-2	1	3	4	5	6	6	6	6	5	4	3	2	1	0	-1	1.0	6.2		
9-Mar-08	-2	-2	-2	-2	-5	-6	-6	-7	-5	-2	-1	2	7	5	4	4	4	5	4	4	4	3	3	1	0.4	6.7		
10-Mar-08	1	-1	-2	-3	-4	-4	-4	-4	-3	-1	1	4	8	8	8	7	6	5	4	3	4	4	3	3	1.8	8.1		
11-Mar-08	3	3	2	2	2	1	1	2	3	3	4	5	6	6	7	7	7	6	5	3	3	3	3	1	3.6	7.0		
12-Mar-08	1	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2	2	1	0	0	0	-1	-3	1.0	2.5		
13-Mar-08	-3	-3	-4	-4	-6	-7	-6	-5	-4	-2	0	3	3	2	2	3	3	2	0	-2	-2	-3	-3	-4	-1.7	3.3		
14-Mar-08	-4	-4	-4	-5	-5	-5	-5	-6	-6	-4	-2	-1	-1	0	0	0	-1	-2	-2	-3	-5	-7	-9	-10	-3.8	0.2		
15-Mar-08	-11	-11	-12	-12	-13	-14	-14	-15	-15	-15	-15	-14	-14	-14	-13	-13	-14	-14	-15	-15	-16	-16	-16	-16	-14.0	-10.6		
16-Mar-08	-18	-20	-22	-22	-23	-24	-23	-22	-21	-17	-15	-13	-11	-8	-6	-6	-4	-4	-4	-3	-3	-2	-2	-1	-12.2	-1.5		
17-Mar-08	-3	-4	-3	-3	-3	-1	0	0	1	2	3	4	4	5	4	4	4	4	3	1	0	-1	-2	-2	0.5	4.8		
18-Mar-08	-3	-4	-5	-6	-6	-6	-7	-6	-4	-2	1	3	3	4	4	4	4	4	3	2	0	-2	-2	-2	-1.0	4.2		
19-Mar-08	-3	-4	-3	-3	-4	-2	-4	-4	-3	-2	0	1	2	3	4	4	4	5	3	-1	-2	-2	-2	-2	-0.6	4.5		
20-Mar-08	-5	-4	-4	-5	-6	-7	-8	-6	-4	-2	0	3	3	5	5	5	4	4	2	0	-1	-1	-1	-2	-1.1	5.3		
21-Mar-08	-3	-3	-4	-4	-4	-5	-5	-5	-4	-3	-2	0	2	4	5	5	5	4	3	1	0	-1	-2	-2	-0.8	4.9		
22-Mar-08	-3	-6	-5	-6	-7	-7	-8	-7	-5	-3	0	3	6	7	8	8	7	7	5	4	4	3	2	2	0.4	8.1		
23-Mar-08	1	0	0	-1	-1	-1	-1	-1	-1	-1	0	2	3	3	4	4	5	4	1	1	1	-1	-2	-3	0.6	4.6		
24-Mar-08	-4	-6	-6	-8	-8	-8	-8	-7	-6	-3	-1	0	2	3	4	4	3	2	1	0	-2	-3	-3	-4	-2.3	4.3		
25-Mar-08	-5	-6	-6	-6	-6	-7	-8	-7	-4	-3	-1	0	1	2	3	5	4	4	2	-1	-4	-3	-4	-4	-2.3	4.8		
26-Mar-08	-5	-6	-7	-7	-7	-7	-8	-8	-7	-5	-4	-2	-1	0	1	1	2	1	0	-1	-1	-2	-3	-3	-3.3	1.7		
27-Mar-08	-4	-4	-5	-5	-5	-6	-6	-6	-5	-4	-3	-2	-2	-2	-1	0	-1	-1	-2	-3	-5	-5	-6	-7	-3.7	0.4		
28-Mar-08	-9	-9	-9	-9	-8	-6	-6	-7	-5	-4	-4	-4	-3	-4	-3	-3	-3	-4	-4	-5	-6	-7	-8	-7	-5.7	-2.7		
29-Mar-08	-7	-8	-9	-9	-9	-9	-11	-10	-8	-7	-6	-4	-3	-3	-2	-2	-3	-3	-4	-6	-9	-9	-10	-13	-6.9	-2.3		
30-Mar-08	-14	-15	-15	-15	-15	-15	-16	-13	-9	-6	-5	-1	0	0	2	4	2	2	0	-3	-4	-6	-7	-8	-6.5	4.0		
31-Mar-08	-8	-10	-12	-12	-14	-13	-14	-11	-8	-4	-4	-2	-1	0	1	1	2	1	1	-2	-4	-5	-5	-7	-5.3	1.5		
Hourly Avg	-5.3	-5.8	-6.1	-6.7	-7.3	-7.5	-8.0	-7.8	-6.6	-4.8	-3.3	-1.5	-0.1	0.5	1.1	1.3	1.1	0.6	-0.5	-1.8	-2.8	-3.5	-4.0	-4.8				
Hourly Max	3.0	2.9	2.1	2.0	1.9	1.9	1.7	1.7	2.9	2.5	3.6	4.9	8.0	7.9	8.1	8.0	7.5	7.1	5.4	4.6	5.0	4.4	4.2	3.6				

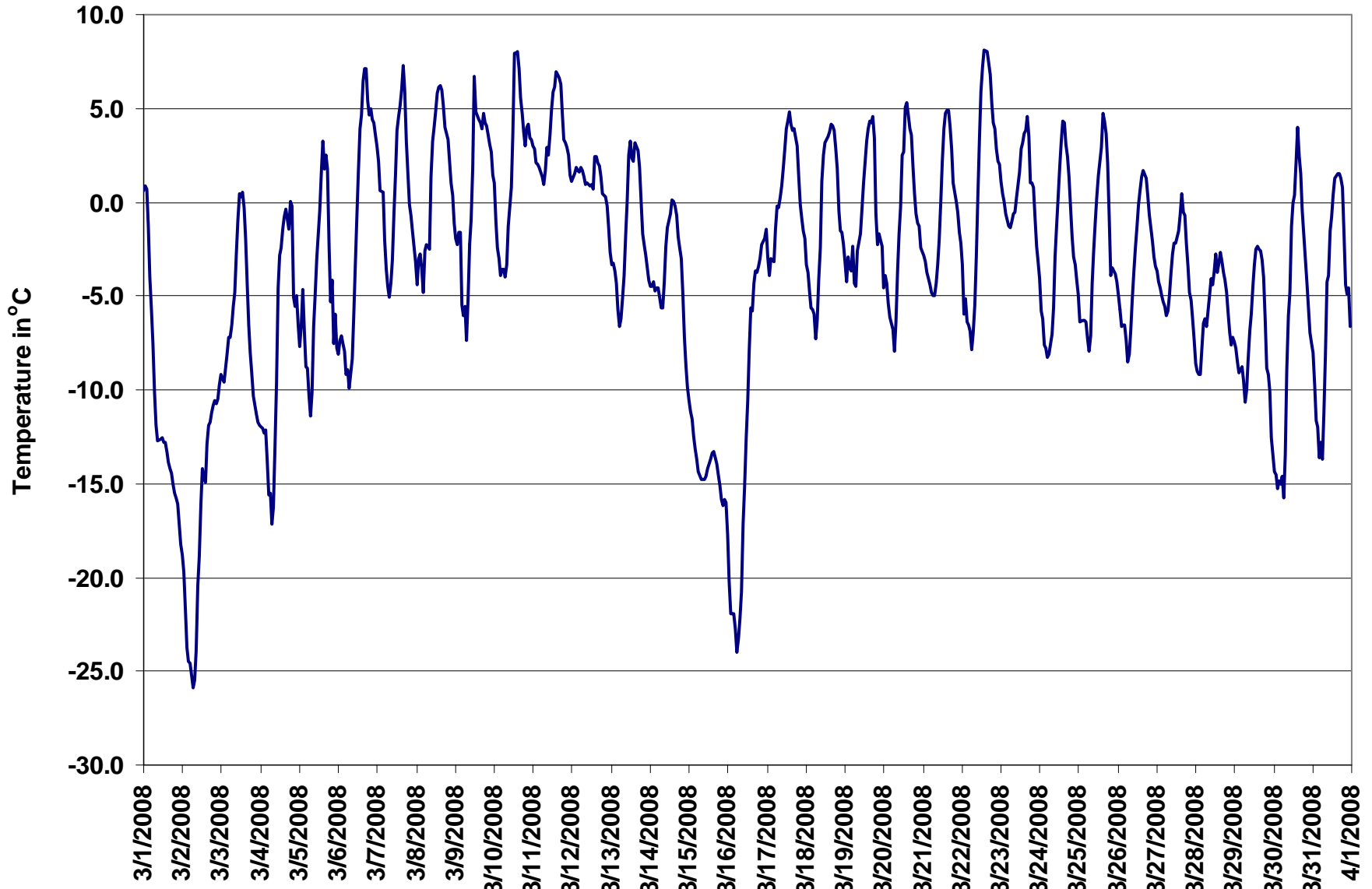


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend

PASZA - Smoky Heights Scalar Wind Speed Monthly Summary

Station: Smoky Heights
Station Owner: PASZA

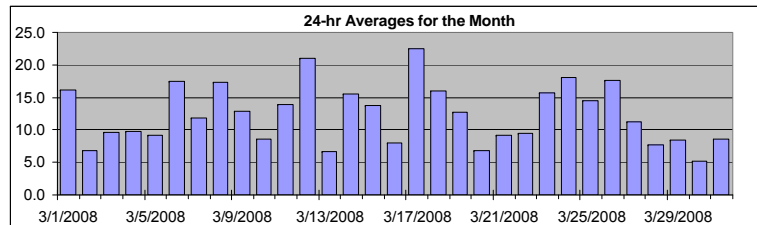
HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	40.8 km/hr	12-Mar	9:00 10:00
Maximum 24-hr Value:	22.6 km/hr	17-Mar	



Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	31.4	25.5	16.7	11.0	7.0	3.5	2.3	12.3 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max	
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
1-Mar-08	12	12	28	20	18	9	12	16	18	21	16	14	17	18	18	17	18	14	12	14	17	18	16	12	16.1	27.6
2-Mar-08	10	6	5	2	2	4	3	5	7	3	3	3	4	11	17	12	14	13	13	11	5	3	5	3	6.8	16.8
3-Mar-08	5	6	4	3	3	5	4	4	4	5	7	5	9	10	11	16	18	19	19	18	17	15	14	9	9.6	19.3
4-Mar-08	6	4	5	6	8	9	7	7	7	8	7	5	15	19	17	21	16	9	11	9	7	14	12	7	9.8	21.0
5-Mar-08	11	15	18	14	20	21	12	9	9	9	7	6	7	5	7	7	4	4	6	7	5	8	6	6	9.2	20.8
6-Mar-08	10	9	8	8	9	9	9	9	11	14	15	16	17	17	16	18	19	36	27	33	30	30	26	23	17.5	35.7
7-Mar-08	20	21	22	25	21	16	16	19	11	9	9	9	10	10	9	6	2	7	7	9	9	6	6	6	11.8	24.9
8-Mar-08	8	8	9	7	6	10	10	9	10	19	20	23	13	20	27	32	29	26	22	23	23	19	19	19	17.3	31.6
9-Mar-08	18	15	12	12	9	7	10	9	9	9	10	5	3	8	9	11	12	13	23	26	27	22	19	12.8	27.2	
10-Mar-08	15	10	14	15	14	15	17	13	8	8	9	8	2	2	3	5	5	4	3	6	7	5	7	10	8.6	17.0
11-Mar-08	9	10	11	10	10	8	6	11	5	7	11	12	15	17	21	16	15	21	21	13	16	21	23	21	13.8	23.3
12-Mar-08	20	21	22	25	24	27	27	30	33	41	39	38	28	16	11	6	4	16	16	14	16	13	9	7	20.9	40.8
13-Mar-08	5	6	3	4	4	3	5	5	7	5	4	3	4	4	7	8	8	10	11	10	11	10	11	12	6.7	11.8
14-Mar-08	13	12	12	12	13	13	14	13	13	14	13	14	14	14	16	18	19	17	14	17	22	23	22	22	15.6	23.0
15-Mar-08	20	18	19	18	19	20	15	15	15	15	16	17	15	14	14	15	14	12	9	8	7	7	4	5	13.8	20.0
16-Mar-08	5	3	4	7	6	4	4	3	6	5	7	10	11	8	8	9	6	5	12	11	16	14	12	17	8.0	16.9
17-Mar-08	15	15	19	20	22	25	28	27	30	27	31	31	31	32	26	24	20	18	14	16	16	18	20	17	22.6	31.8
18-Mar-08	16	19	13	13	13	9	8	11	17	14	18	24	22	25	22	20	22	17	16	16	15	11	10	11	16.0	25.0
19-Mar-08	6	9	17	9	14	17	16	17	20	20	20	17	16	15	16	19	16	11	7	3	4	7	6	6	12.8	20.1
20-Mar-08	4	3	4	4	2	2	4	6	6	4	5	3	5	6	9	11	12	11	10	10	10	12	12	11	6.9	12.3
21-Mar-08	11	12	12	13	13	12	11	11	12	12	11	10	7	5	6	7	8	9	6	7	6	4	8	7	9.2	12.8
22-Mar-08	8	10	10	8	10	8	7	7	6	4	3	3	3	4	6	8	11	11	11	11	19	18	17	24	9.4	23.7
23-Mar-08	21	21	20	19	15	15	13	18	16	19	15	18	13	10	11	13	15	14	26	21	10	10	12	13	15.7	25.5
24-Mar-08	12	11	11	10	10	13	18	15	16	22	31	26	22	17	12	16	30	28	25	20	16	17	18	18	18.0	30.6
25-Mar-08	16	18	21	20	19	17	18	16	14	16	19	20	19	21	16	10	12	11	8	5	3	11	10	9	14.5	21.1
26-Mar-08	9	8	7	9	12	13	15	14	15	17	19	18	23	26	26	23	22	25	25	20	20	19	18	18	17.6	26.2
27-Mar-08	17	17	17	15	16	17	14	11	11	10	9	4	10	13	16	13	11	10	9	8	6	6	5	5	11.3	17.1
28-Mar-08	3	4	3	4	4	6	6	2	4	3	6	7	11	13	13	13	13	12	11	12	12	8	8	8	7.7	13.5
29-Mar-08	9	9	11	11	8	9	8	9	9	8	9	8	9	8	9	10	11	11	10	6	5	5	5	5	8.4	11.1
30-Mar-08	5	4	2	2	4	4	3	3	2	4	5	4	7	8	5	3	4	7	10	9	9	8	6	7	5.2	9.9
31-Mar-08	6	6	4	5	4	2	5	5	6	4	8	9	12	13	15	16	15	11	7	6	7	10	15	14	8.6	16.4
1-hr Average	11.1	11.0	11.9	11.3	11.4	11.2	11.1	11.3	11.4	12.1	13.0	12.5	12.7	13.1	13.5	13.7	13.8	13.9	13.2	12.7	12.7	12.8	12.5	11.9		
Hourly Max	20.6	21.4	27.6	24.9	24.2	27.2	27.8	30.0	32.9	40.8	38.9	38.4	30.9	31.8	27.3	31.6	30.3	35.7	27.2	32.8	30.5	30.4	25.6	23.7		

PASZA - Smoky Heights Vector Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

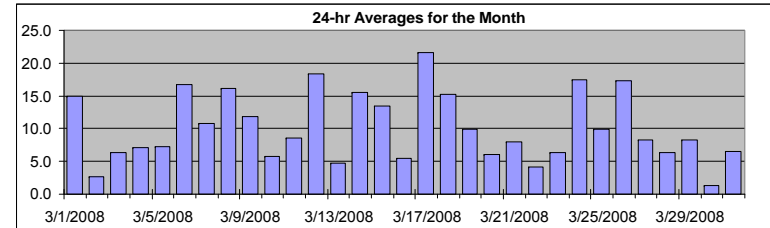
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	40.8	km/hr	12-Mar	9:00 10:00
Maximum 24-hr Value:	21.7	km/hr	17-Mar	



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

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	31.3	25.3	16.5	10.8	6.5	2.4	1.1	22.5 km/hr

Day Mountain Standard Time

Day	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hr Vector Average	Daily Max
1-Mar-08	12	6	26	20	18	8	12	15	18	21	16	14	17	18	18	17	17	14	12	14	16	18	13	12	14.9	25.8	
2-Mar-08	10	5	5	1	2	3	2	5	7	2	2	1	1	11	17	12	14	13	13	11	4	2	5	2	2.7	16.7	
3-Mar-08	2	5	4	2	1	5	3	1	2	5	7	5	9	10	9	16	18	19	19	18	17	15	14	9	6.3	19.3	
4-Mar-08	6	4	4	6	8	9	7	7	7	8	7	4	15	19	16	21	16	9	10	9	6	14	12	6	7.1	20.9	
5-Mar-08	11	15	18	14	20	21	11	9	9	9	5	6	5	6	7	7	3	3	5	5	4	7	5	5	7.2	20.7	
6-Mar-08	10	9	8	8	9	9	9	9	10	14	14	16	17	17	16	18	19	36	27	33	30	30	25	23	16.8	35.6	
7-Mar-08	20	21	22	25	21	16	16	19	10	9	9	9	10	10	9	6	1	6	6	9	8	5	6	6	10.9	24.9	
8-Mar-08	8	8	7	7	6	10	9	8	10	18	20	23	13	20	27	31	29	26	22	22	22	22	19	19	16.1	31.4	
9-Mar-08	18	15	12	11	9	7	9	9	9	9	9	4	2	7	9	11	12	12	12	23	26	27	21	18	11.8	27.1	
10-Mar-08	14	9	14	15	13	14	17	13	8	8	9	8	1	1	1	4	5	3	2	4	7	4	7	10	5.7	16.9	
11-Mar-08	9	10	11	9	10	8	6	10	1	6	11	12	15	17	21	16	15	21	21	13	16	21	23	21	8.6	23.3	
12-Mar-08	20	21	22	25	24	27	27	30	33	41	39	38	28	15	11	5	3	16	15	13	16	12	9	6	18.4	40.8	
13-Mar-08	5	6	3	4	4	3	5	5	7	4	4	1	4	2	6	8	8	10	11	10	11	10	11	12	4.7	11.7	
14-Mar-08	13	12	12	12	13	13	13	13	13	14	13	14	14	14	16	18	19	17	14	17	22	23	22	22	15.5	22.9	
15-Mar-08	20	18	19	18	19	20	15	15	15	15	16	16	14	14	14	15	14	12	9	8	7	7	4	5	13.5	20.0	
16-Mar-08	5	3	4	6	6	4	4	3	6	5	7	10	10	8	8	8	6	5	11	11	16	12	12	17	5.5	16.9	
17-Mar-08	14	14	19	20	22	25	28	27	30	27	31	31	31	32	25	24	20	18	14	16	16	17	20	17	21.7	31.7	
18-Mar-08	16	19	13	13	13	8	8	11	17	14	18	24	22	25	22	20	22	17	16	16	15	11	10	10	15.2	25.0	
19-Mar-08	5	9	17	8	13	17	13	17	19	20	20	17	16	15	16	19	16	7	6	2	4	7	6	5	9.9	20.1	
20-Mar-08	3	1	4	3	2	1	3	6	6	4	3	2	3	6	9	11	11	11	10	10	10	12	12	11	6.1	12.3	
21-Mar-08	11	11	12	13	13	12	11	11	12	12	11	10	7	4	5	6	8	9	6	7	5	3	7	6	8.0	12.7	
22-Mar-08	8	10	10	8	10	8	7	6	6	4	2	2	3	1	6	8	10	11	10	10	18	18	17	23	4.2	23.5	
23-Mar-08	20	21	20	19	15	15	13	18	15	18	15	18	12	9	11	13	15	10	25	20	9	10	12	13	6.4	25.4	
24-Mar-08	12	9	10	9	10	13	18	14	15	21	31	26	22	17	10	13	30	28	25	20	16	17	18	18	17.5	30.6	
25-Mar-08	15	18	21	20	19	17	17	15	14	16	19	19	19	21	15	6	11	10	8	5	3	11	10	9	9.9	21.0	
26-Mar-08	9	8	7	9	12	13	15	14	15	17	19	18	23	26	26	23	21	25	25	20	20	19	18	18	17.3	26.1	
27-Mar-08	17	17	17	15	16	17	14	11	11	10	9	4	10	12	16	10	11	10	9	8	6	6	5	5	8.2	17.1	
28-Mar-08	2	3	3	3	4	5	6	1	3	3	6	5	10	12	13	13	12	12	11	12	12	8	8	8	6.4	13.1	
29-Mar-08	8	9	11	11	8	9	8	9	8	9	7	8	7	9	10	10	11	10	6	5	5	5	5	5	8.3	11.1	
30-Mar-08	4	4	1	2	3	4	3	2	2	3	5	3	6	7	5	1	3	7	10	8	9	8	6	7	1.4	9.9	
31-Mar-08	6	6	3	3	1	1	4	4	6	4	8	8	12	13	14	16	15	11	7	6	7	9	15	14	6.6	16.3	
1-hr Vector	3.3	4.2	4.5	5.1	5.1	4.7	5.2	4.8	4.3	5.4	5.9	5.7	6.0	6.5	5.9	6.1	5.2	5.1	4.2	4.8	4.4	4.3	4.5	3.5			
Hourly Max	20.4	21.3	25.8	24.9	24.1	27.2	27.7	30.0	32.9	40.8	38.8	38.2	30.8	31.7	27.2	31.4	30.2	35.6	27.1	32.7	30.1	30.2	25.5	23.5			

PASZA - Smoky Heights Wind Direction Monthly Summary

Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

--

Calm Time: 0 hrs	0% calms	Operational Time: 744 hrs
Calibration Time: 0 hrs		AMD Operational Uptime: 100.0%
Percentile		Average
99	95	75
50	25	5
1		
358.0	341.9	254.9
228.9	33.6	7.0
		1.4
		278 deg

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	WD Sector
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-Mar-08	21	338	276	302	296	295	321	314	314	316	321	326	323	338	339	333	328	332	336	327	324	323	1	20	324	NW
2-Mar-08	22	30	23	40	322	4	5	35	24	33	194	91	240	246	240	245	241	221	208	208	252	78	252	179	247	WSW
3-Mar-08	151	22	20	354	190	32	12	22	301	281	298	248	222	252	343	21	33	27	36	32	31	33	40	33	18	NNE
4-Mar-08	49	54	126	169	212	218	215	213	220	234	238	156	226	239	244	248	246	258	317	351	239	263	274	289	243	WSW
5-Mar-08	271	266	270	258	261	263	260	231	244	226	163	160	151	131	235	248	277	345	331	271	313	252	263	203	253	WSW
6-Mar-08	196	207	218	234	233	223	231	208	206	223	232	245	238	226	238	239	247	252	243	260	245	255	257	258	241	WSW
7-Mar-08	257	258	254	253	257	247	256	257	251	261	255	254	243	223	231	241	303	135	166	224	263	232	229	195	247	WSW
8-Mar-08	188	198	185	207	182	184	197	183	193	229	234	233	250	237	241	245	245	238	239	242	256	259	244	253	234	SW
9-Mar-08	259	269	271	234	193	210	245	241	212	196	202	221	113	262	275	271	255	238	221	237	241	238	241	231	239	WSW
10-Mar-08	237	236	260	257	257	254	254	253	207	224	214	233	143	293	238	312	275	328	17	320	26	5	14	17	261	W
11-Mar-08	17	6	22	17	17	20	337	280	234	162	190	180	241	243	246	249	241	249	260	236	231	228	236	239	249	WSW
12-Mar-08	239	239	244	248	251	250	249	249	253	260	263	261	271	277	24	342	165	315	321	319	307	278	269	282	264	W
13-Mar-08	242	273	286	313	17	337	358	9	27	30	25	145	232	249	14	21	50	50	45	47	39	34	28	25	22	NNE
14-Mar-08	18	21	18	24	28	17	7	7	11	14	15	12	8	8	7	17	17	15	6	17	21	24	22	24	16	NNE
15-Mar-08	21	17	23	13	17	21	7	6	8	360	356	1	358	352	351	352	352	357	1	1	8	19	4	4	6	N
16-Mar-08	343	352	264	267	267	232	205	218	208	187	131	126	141	148	124	130	120	149	139	140	138	185	183	199	164	SSE
17-Mar-08	224	242	231	243	240	244	244	244	250	251	253	252	252	255	263	291	293	293	248	244	239	249	243	245	252	WSW
18-Mar-08	254	255	251	244	244	235	230	192	192	210	223	234	236	240	241	240	243	237	233	241	263	270	272	220	238	WSW
19-Mar-08	234	225	205	242	254	223	246	239	247	237	238	246	247	230	224	235	234	319	4	13	23	16	20	360	244	WSW
20-Mar-08	18	342	8	48	51	293	55	27	28	47	71	228	295	12	14	12	5	1	6	3	10	11	11	12	12	NNE
21-Mar-08	6	7	13	6	11	7	7	4	9	18	19	19	21	352	359	360	12	13	2	345	349	323	229	229	4	N
22-Mar-08	254	214	214	237	258	211	200	232	247	212	182	186	269	32	106	114	108	96	79	67	80	89	117	127	137	SE
23-Mar-08	128	136	147	141	139	141	138	128	127	139	113	110	89	35	30	24	30	34	257	289	307	226	239	232	131	SE
24-Mar-08	237	253	198	235	252	238	211	229	256	242	251	251	251	263	273	269	239	239	240	241	255	257	255	255	246	WSW
25-Mar-08	251	260	261	259	258	263	262	259	244	241	237	244	238	238	241	358	13	4	15	2	309	22	20	20	267	W
26-Mar-08	17	16	15	14	9	12	18	25	27	31	38	33	37	39	39	43	42	41	46	43	42	43	41	35	34	NE
27-Mar-08	34	34	37	35	39	39	24	22	21	19	18	264	258	255	255	346	28	21	11	7	12	360	21	15	14	NNE
28-Mar-08	341	314	21	307	251	322	341	331	60	202	228	5	24	20	1	357	1	349	346	22	17	2	347	354	357	N
29-Mar-08	4	356	349	358	357	2	348	4	18	10	7	15	12	11	5	349	0	16	10	12	14	17	8	331	4	N
30-Mar-08	275	283	264	100	242	279	293	260	227	161	130	114	131	123	110	171	316	82	54	33	15	13	2	345	41	NE
31-Mar-08	356	5	29	318	95	305	277	214	185	226	257	272	259	249	239	234	237	242	249	242	218	192	245	253	247	WSW
Hourly Avg	286	285	269	275	272	269	272	265	260	253	253	253	261	266	280	299	298	310	302	301	306	294	286	279		

PASZA - Smoky Heights Standard Deviation of Wind Direction Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

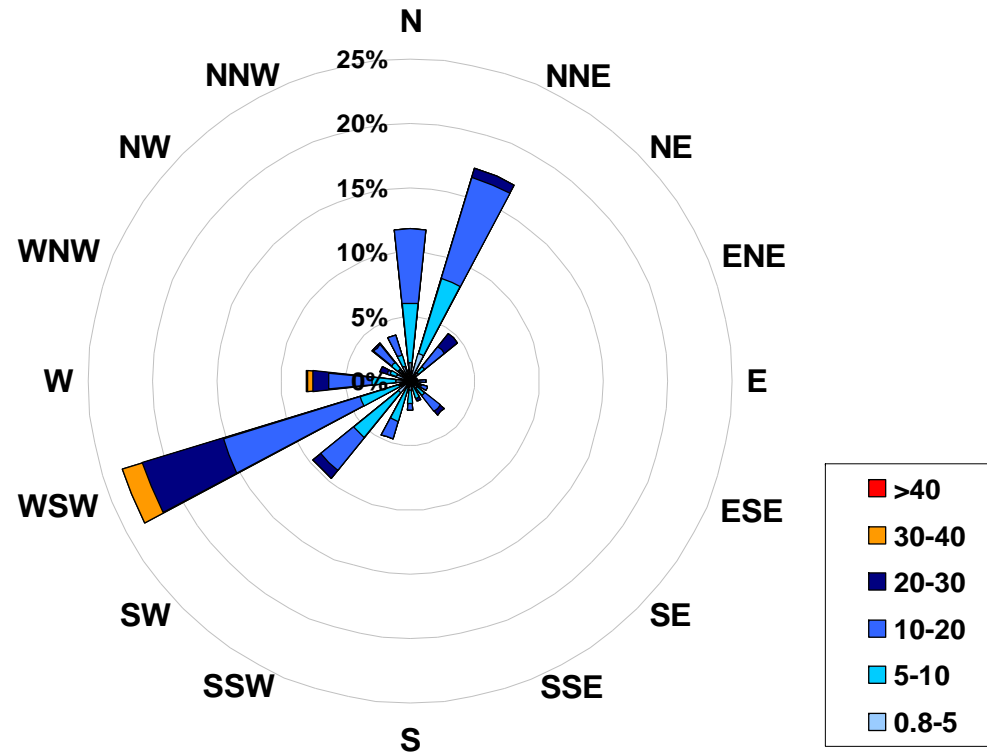
Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	79.8	54.0	16.4	8.6	5.4	3.1	2.2

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

Day	Mountain Standard Time																							Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00		22:00 23:00
1-Mar-08	4	54	22	9	9	25	20	22	9	5	8	10	10	9	8	7	10	9	11	10	7	7	29	8	53.7
2-Mar-08	13	13	10	51	43	26	34	36	6	72	54	72	78	10	4	10	13	5	9	9	74	57	14	76	77.8
3-Mar-08	70	33	35	59	76	14	50	88	62	8	5	23	4	11	43	8	7	4	3	5	4	5	7	9	88.5
4-Mar-08	12	28	23	13	6	6	13	11	10	11	24	40	8	4	8	5	7	19	19	9	35	6	6	15	40.5
5-Mar-08	10	9	3	10	3	4	39	20	12	6	45	18	46	22	42	16	30	34	43	37	47	54	20	14	53.7
6-Mar-08	6	13	11	6	8	9	7	8	16	11	5	5	7	6	4	8	13	4	5	4	9	6	5	4	16.2
7-Mar-08	2	3	2	2	4	6	2	2	40	6	8	6	8	5	6	20	58	41	21	15	12	22	25	15	58.4
8-Mar-08	7	6	52	15	10	8	10	29	5	7	5	4	14	4	6	6	5	3	3	4	9	12	5	4	51.5
9-Mar-08	4	6	11	25	9	12	9	12	4	14	18	38	44	24	9	6	6	8	12	4	2	3	7	13	43.9
10-Mar-08	10	22	10	7	9	13	8	15	20	8	11	66	85	76	18	14	41	69	48	16	32	6	6	6	85.0
11-Mar-08	9	11	7	6	4	10	20	22	87	20	7	10	10	8	7	7	8	10	8	19	13	3	3	5	86.7
12-Mar-08	5	3	4	4	4	3	3	2	3	3	4	5	6	22	9	54	58	14	9	10	7	15	10	26	58.5
13-Mar-08	19	17	26	27	38	34	15	15	7	8	14	73	30	80	39	12	16	16	6	5	6	6	3	5	80.1
14-Mar-08	2	3	6	5	4	7	5	5	5	6	5	6	10	9	8	4	4	8	7	8	5	5	5	4	10.0
15-Mar-08	6	8	6	7	7	5	10	8	8	9	10	12	11	8	9	8	9	10	10	10	8	6	16	12	15.6
16-Mar-08	11	38	15	6	9	14	11	14	11	20	11	7	12	17	11	10	12	42	15	10	12	29	14	5	42.5
17-Mar-08	24	9	2	4	2	5	4	3	3	4	2	3	4	4	9	15	5	8	19	8	5	7	3	5	24.3
18-Mar-08	5	5	4	6	5	10	24	13	6	6	9	5	4	3	5	4	4	8	3	6	11	16	21	30	30.4
19-Mar-08	46	15	16	22	15	4	39	12	7	4	7	12	7	5	3	3	48	46	54	25	6	6	14	6	53.5
20-Mar-08	40	84	36	47	34	79	43	8	7	21	55	57	58	14	11	6	7	7	6	6	6	3	5	6	84.2
21-Mar-08	7	8	5	5	3	5	5	7	6	4	4	5	7	35	31	18	8	7	7	7	16	67	21	18	67.1
22-Mar-08	10	13	10	8	7	16	16	14	12	34	48	65	47	82	12	17	12	7	23	13	6	9	15	7	82.5
23-Mar-08	7	6	5	7	6	7	8	8	11	11	9	8	16	16	13	8	6	42	6	17	29	14	7	4	41.5
24-Mar-08	8	36	17	18	6	12	3	25	9	7	3	4	5	10	42	37	3	2	2	3	3	3	2	3	42.3
25-Mar-08	5	3	1	1	5	6	6	8	4	3	3	6	6	4	9	51	15	10	7	6	31	7	4	5	50.6
26-Mar-08	5	4	4	4	5	4	3	5	4	6	6	6	5	3	5	6	7	5	4	4	4	4	3	4	6.8
27-Mar-08	3	5	4	4	3	3	7	5	5	7	9	33	8	10	7	42	6	7	9	8	17	21	14	9	42.0
28-Mar-08	47	43	42	22	17	45	15	80	46	29	14	45	13	9	13	14	15	10	9	8	10	9	5	10	79.5
29-Mar-08	10	9	8	8	8	7	5	10	4	8	9	21	19	33	16	19	14	7	5	6	5	10	8	7	33.5
30-Mar-08	16	10	73	26	35	9	17	61	48	45	13	31	45	21	22	75	72	32	7	14	3	5	10	5	75.1
31-Mar-08	12	23	55	47	80	82	26	27	8	16	6	11	5	5	6	6	3	7	11	11	27	21	6	2	82.4
Hourly Max	70	84	73	59	80	82	50	88	87	72	55	73	78	85	76	75	72	48	69	54	74	67	29	76	

1-hr Average Wind Rose (in km/hr) Located at the Smoky Heights Site for March 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	109
5	to	10	218
10	to	20	315
20	to	30	86
30	to	40	15
	>	40	1
Total Non-Zero Values			744

PASZA
Beaverlodge Station
Monthly Summary Tables, Graphs and
Roses

PASZA - Beaverlodge AQI Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

Air Quality Index (AQI)

Monitoring Dates: March 1, 2008 to April 1, 2008

Alberta's Air Quality Index

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

Summary

Number of 1-hr Good Readings:	706
Number of 1-hr Fair Readings:	0
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day	Mountain Standard Time																							
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-Mar-08	21	18	15	14	N	14	15	15	15	15	16	16	16	16	16	16	16	16	15	15	15	15	15	
2-Mar-08	15	15	15	14	N	15	15	15	13	14	15	15	15	15	13	13	17	20	23	23	22	22	21	
3-Mar-08	19	20	21	20	N	21	22	19	15	19	21	23	23	22	23	22	20	20	20	19	16	14	14	
4-Mar-08	15	15	14	15	N	16	14	15	16	14	15	16	16	17	21	21	21	19	19	18	19	19	18	
5-Mar-08	19	18	18	19	N	19	18	18	18	17	17	17	17	19	19	21	19	19	19	18	17	18	19	
6-Mar-08	18	17	17	17	N	19	19	19	20	20	19	19	21	23	23	24	24	24	23	23	24	24	23	
7-Mar-08	22	20	21	21	N	21	20	19	19	18	17	18	19	23	24	23	22	21	21	24	24	20	18	
8-Mar-08	21	19	17	15	N	12	18	15	16	13	18	23	24	25	25	24	24	24	24	23	22	22	21	
9-Mar-08	20	19	19	17	N	17	18	17	18	19	17	18	20	19	19	18	25	25	24	23	22	23	21	
10-Mar-08	22	22	22	21	N	20	16	13	15	17	16	15	16	17	20	20	20	18	20	22	22	22	22	
11-Mar-08	22	22	20	18	N	16	14	13	10	12	15	16	22	22	22	22	22	21	21	21	20	20	20	
12-Mar-08	20	20	20	20	N	21	21	21	21	21	22	22	22	22	22	22	21	20	21	22	21	20	21	
13-Mar-08	21	20	19	18	N	16	16	15	15	11	15	16	19	22	23	22	22	22	22	22	22	22	22	
14-Mar-08	22	22	22	16	N	20	19	17	N	N	N	N	N	3	3	22	21	20	20	17	15	14	14	
15-Mar-08	14	17	17	17	N	18	18	18	19	19	19	19	19	19	19	19	19	20	20	18	17	15	17	
16-Mar-08	16	16	19	18	N	17	11	14	16	15	15	15	16	16	17	17	15	16	14	14	14	15	14	
17-Mar-08	14	18	22	22	N	22	22	22	22	23	24	24	24	24	24	23	23	23	23	22	22	22	20	
18-Mar-08	20	21	21	20	N	20	19	20	20	21	23	23	24	24	24	24	24	24	23	22	20	20	21	
19-Mar-08	22	22	22	21	N	21	21	18	19	20	22	23	23	24	24	24	24	24	22	23	21	20	20	
20-Mar-08	18	18	17	15	N	17	16	7	9	11	18	20	22	23	24	24	25	25	24	24	24	24	23	
21-Mar-08	23	23	21	16	N	14	17	14	12	12	14	18	20	23	25	25	25	24	24	23	21	21	21	
22-Mar-08	20	20	20	20	N	19	18	18	18	17	17	18	20	22	24	24	24	24	24	24	24	24	23	
23-Mar-08	23	22	22	21	N	21	20	21	21	21	20	19	19	18	18	17	18	24	23	21	N	23	21	
24-Mar-08	21	21	19	19	N	20	19	21	21	22	23	23	23	23	23	23	23	23	22	21	21	21	20	
25-Mar-08	19	19	19	19	N	17	17	16	19	19	20	22	22	23	23	23	23	23	20	19	20	20	19	
26-Mar-08	20	21	22	21	N	17	10	12	20	20	N	22	21	22	23	23	22	22	22	21	21	21	21	
27-Mar-08	20	20	20	20	N	19	15	14	14	16	18	19	18	19	19	20	21	21	19	19	18	18	15	
28-Mar-08	17	16	16	15	N	17	16	17	17	18	18	18	19	19	19	18	18	19	19	20	19	19	19	
29-Mar-08	18	18	19	18	N	18	17	17	17	18	20	19	20	21	21	22	22	22	22	20	19	20	19	
30-Mar-08	18	18	18	18	N	7	8	9	10	12	16	17	19	19	20	22	22	22	21	21	22	22	19	
31-Mar-08	16	16	13	14	N	14	8	11	15	17	20	21	22	23	23	24	23	23	22	21	20	20	17	

PASZA - Beaverlodge Sulphur Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

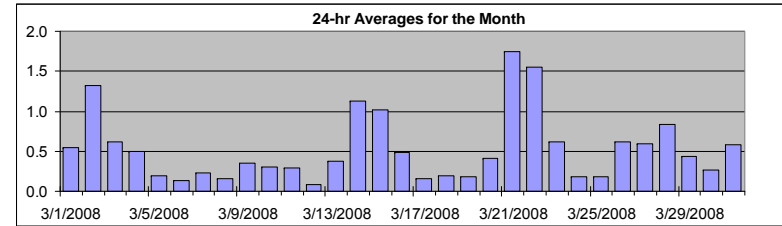
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	10.6	ppb	21-Mar	22:00 23:00
Maximum 24-hr Average:	1.7	ppb	21-Mar	



AIC Time:	32 hrs	Operational Time:	709 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.7	1.6	0.6	0.3	0.2	0.1	0.0	0.5 ppb	0.3 ppb

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	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-Mar-08	1	1	1	1	A	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0.5	2.3
2-Mar-08	0	2	3	2	A	1	1	1	1	2	2	1	1	2	3	2	2	1	1	0	0	0	0	0	1.3	3.0
3-Mar-08	0	0	0	0	A	0	0	0	0	0	1	1	0	0	0	0	0	3	1	1	0	1	2	1	0.6	3.4
4-Mar-08	1	1	1	1	A	1	1	1	1	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0.5	1.2
5-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2
6-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
7-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
8-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
9-Mar-08	0	0	0	0	A	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0.4	1.3
10-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0.3	0.6
11-Mar-08	1	1	1	0	A	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8
12-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
13-Mar-08	0	0	0	0	A	0	0	0	0	0	1	0	1	1	0	1	1	0	0	0	1	0	0	0	0.4	0.9
14-Mar-08	0	0	0	0	A	0	1	2	C	C	C	A	1	2	4	2	2	4	1	0	0	0	0	0	1.1	4.0
15-Mar-08	0	0	0	0	A	3	0	0	1	1	0	0	1	0	0	1	1	2	2	3	4	3	1	0	1.0	3.7
16-Mar-08	0	1	0	0	A	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	1	0.5	0.8
17-Mar-08	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
18-Mar-08	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
19-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.2	0.9
20-Mar-08	1	1	0	0	A	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	1	0.4	1.1
21-Mar-08	1	1	1	1	A	0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	9	11	4	1.7	10.6
22-Mar-08	2	1	1	1	A	7	4	2	2	2	8	2	0	0	0	0	0	0	0	0	0	0	1	1	1.5	7.9
23-Mar-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0.6	1.2
24-Mar-08	0	0	0	0	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
25-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	0.5
26-Mar-08	1	0	1	1	A	2	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.6	1.9
27-Mar-08	0	0	0	0	A	0	0	1	0	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0.6	0.9
28-Mar-08	1	1	1	1	A	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0.8	1.4
29-Mar-08	1	1	0	0	A	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.4
30-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
31-Mar-08	0	0	0	0	A	0	0	0	1	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0.6	1.9
Hourly Avg	0.5	0.5	0.5	0.4	N	0.7	0.5	0.5	0.5	0.6	0.8	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.7	0.7	0.5		
Hourly Max	2.0	2.1	3.0	1.8	0.0	6.6	3.8	2.0	1.5	2.3	7.9	1.6	1.4	2.1	4.0	2.0	2.4	3.5	2.3	2.6	3.7	8.7	10.6	3.8		

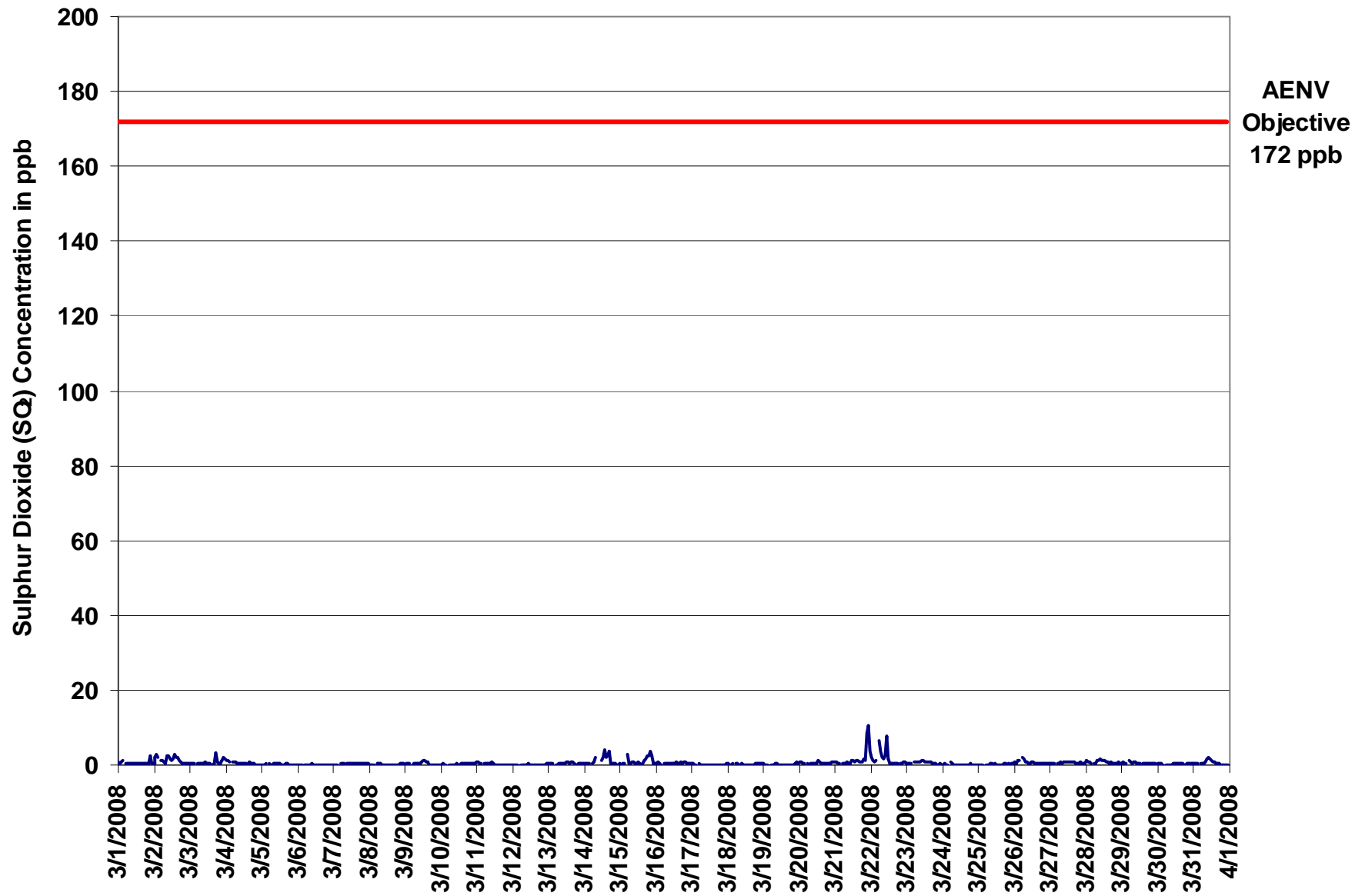


Figure 34. PASZA - Beaverlodge Sulphur Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

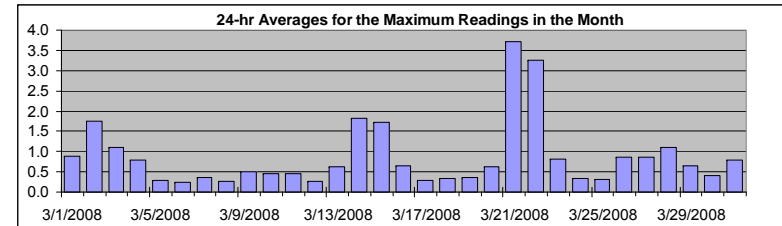
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	33.4	ppb	21-Mar	21:00 22:00
Maximum 24-hr Value:	3.7	ppb	21-Mar	



AIC Time:	32 hrs	Operational Time:	709 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.9	2.4	0.9	0.4	0.3	0.2	0.1	0.9 ppb	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 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	24-hour Average	Daily Maximum	
1-Mar-08	1	1	1	1	A	1	1	1	1	1	1	0	0	0	0	1	1	0	0	2	4	0	1	0.9	3.9	
2-Mar-08	1	3	3	3	A	2	2	1	1	3	3	2	2	3	3	2	2	2	1	1	0	0	0	0	1.7	3.4
3-Mar-08	0	0	0	0	A	0	0	0	1	0	2	1	0	0	0	1	6	1	1	1	2	3	2	1.1	6.0	
4-Mar-08	1	2	1	1	A	1	1	1	1	1	0	0	0	1	0	1	1	2	1	0	0	0	0	0.8	1.6	
5-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
6-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
7-Mar-08	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8	
8-Mar-08	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6	
9-Mar-08	0	0	0	0	A	0	0	0	0	1	1	1	2	2	1	1	0	0	0	0	0	0	0	0.5	1.5	
10-Mar-08	1	0	0	0	A	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1	1	0.5	0.9	
11-Mar-08	1	1	1	1	A	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.5	1.1	
12-Mar-08	0	0	0	0	A	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0.3	1.6	
13-Mar-08	1	0	1	1	A	0	0	0	0	0	1	1	1	1	1	1	1	0	0	1	1	0	0	0.6	1.2	
14-Mar-08	0	1	1	1	A	0	2	3	C	C	C	A	2	5	8	3	3	4	2	1	0	0	0	1.8	7.5	
15-Mar-08	0	0	0	0	A	7	1	1	1	2	0	1	1	0	1	2	2	3	4	4	4	1	1	1.7	6.6	
16-Mar-08	1	1	0	0	A	0	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0.7	1.2	
17-Mar-08	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	1.4	
18-Mar-08	0	0	0	1	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8	
19-Mar-08	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0.4	1.4	
20-Mar-08	1	1	1	0	A	0	0	1	0	0	0	1	1	1	1	0	0	0	0	0	1	1	1	0.6	1.4	
21-Mar-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	2	1	3	2	33	17	10	3.7	33.4	
22-Mar-08	3	2	1	4	A	10	5	3	2	4	30	3	1	1	1	1	1	0	0	0	0	1	1	3.3	29.6	
23-Mar-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	0	0.8	1.4	
24-Mar-08	0	1	0	0	A	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0.3	0.9	
25-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0.3	0.8	
26-Mar-08	1	0	2	1	A	2	2	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0.9	2.3	
27-Mar-08	1	1	1	0	A	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	3.0	
28-Mar-08	2	1	1	1	A	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.4	
29-Mar-08	1	1	0	0	A	2	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0.7	2.0	
30-Mar-08	1	1	0	0	A	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0.4	0.8	
31-Mar-08	0	1	1	1	A	1	0	1	1	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0.8	2.3	
Hourly Avg	0.7	0.7	0.7	0.7	N	1.1	0.8	0.8	0.7	0.9	1.7	0.8	0.7	0.8	0.8	0.6	0.7	0.9	0.6	0.6	0.7	1.8	1.1	0.9		
Hourly Max	3.4	3.2	3.3	3.6	0.0	10.3	5.0	3.2	2.3	4.4	29.6	3.1	1.6	4.6	7.5	2.5	2.8	6.0	3.3	3.6	4.3	33.4	17.3	10.1		

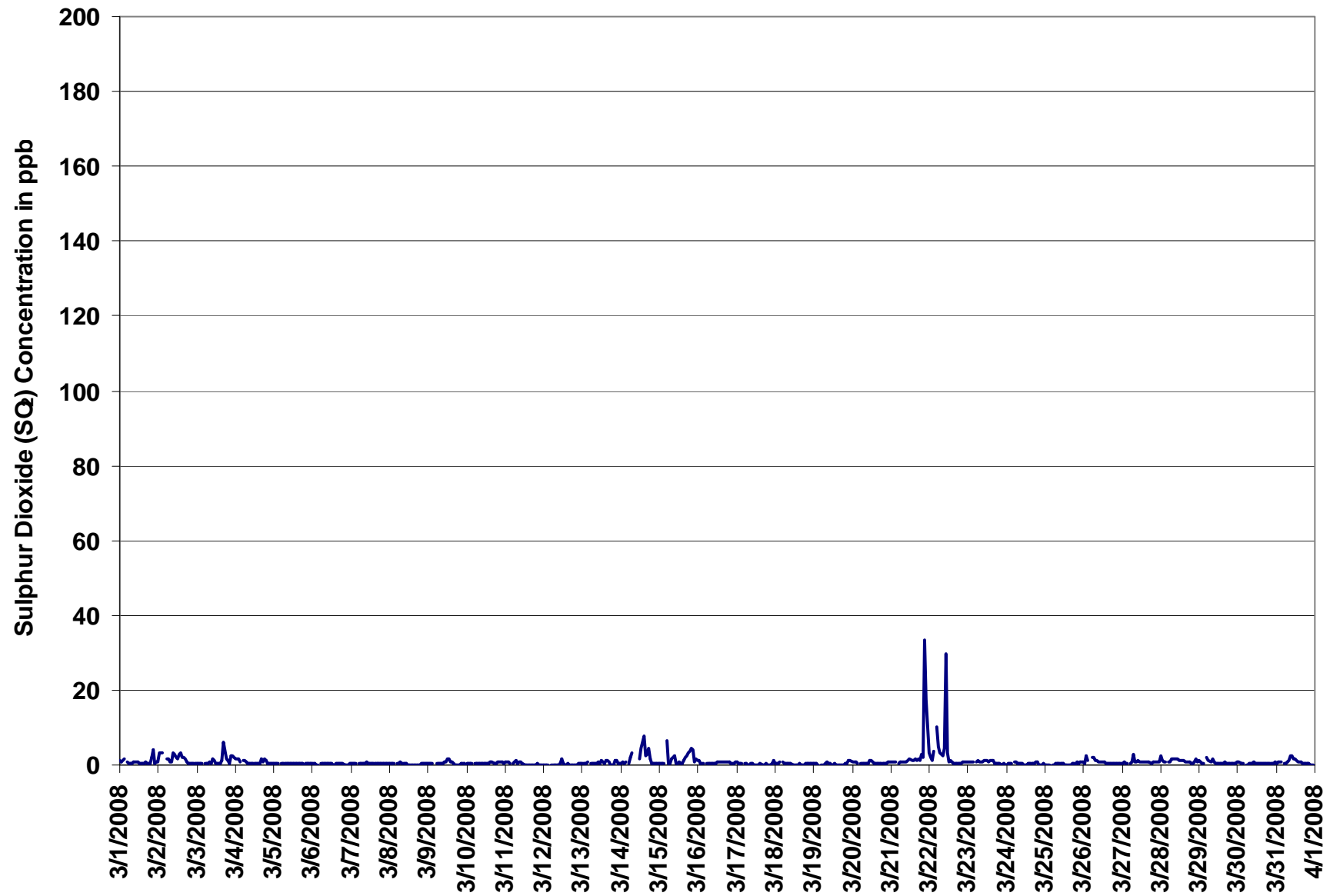
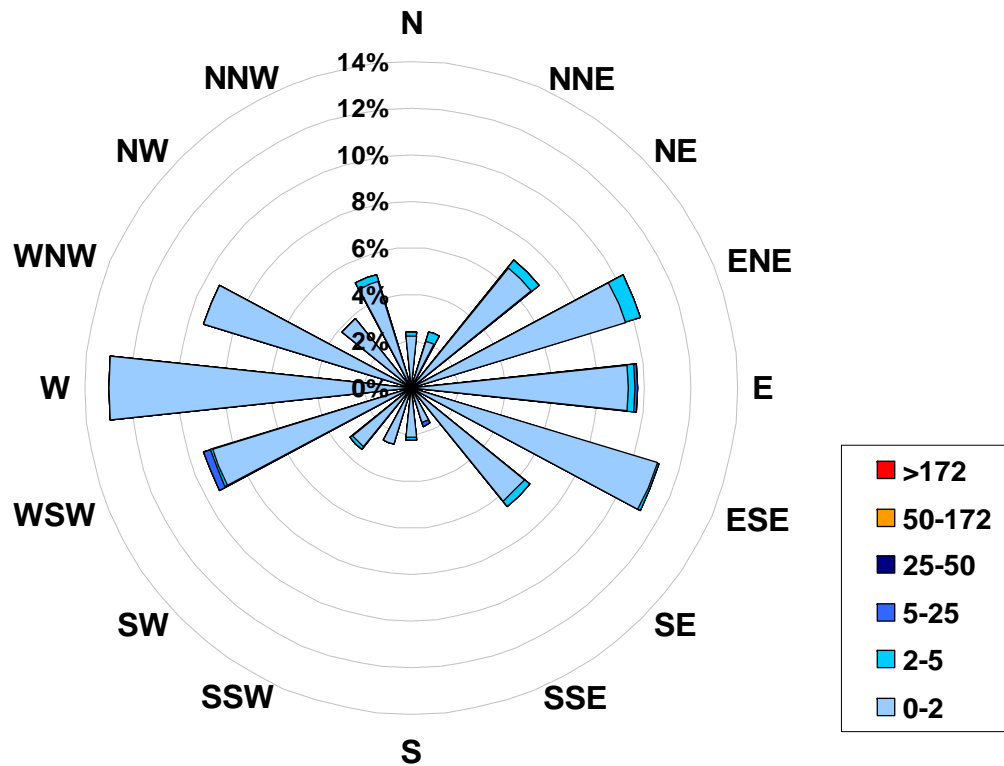


Figure 35. PASZA - Beaverlodge Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Beaverlodge Site for March 2008



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2	683	
2	to 5	22	
5	to 25	4	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values			709

PASZA - Beaverlodge Nitrogen Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

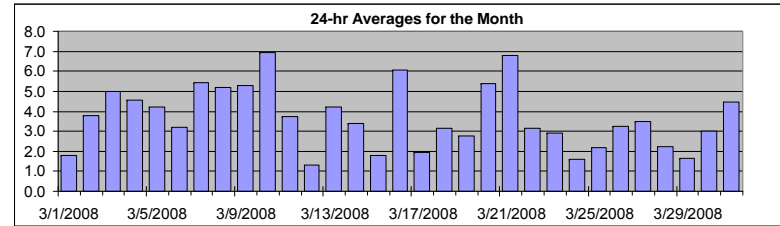
Nitrogen Dioxide (NO₂)

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Summary

Number of 1-hr Exceedances:	0		
Number of 24-hr Exceedances:	0		
Maximum 1-hr Average:	22.4 ppb	20-Mar	7:00 8:00
Maximum 24-hr Average:	6.9 ppb	10-Mar	



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

AIC Time:	31 hrs	Operational Time:	708 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	14.9	9.4	4.7	2.8	1.5	0.9	0.9	3.7 ppb	2.8 ppb

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-Mar-08	4	3	2	2	A	2	2	2	2	2	2	1	1	1	1	1	1	1	1	2	3	2	2	2	1.8	3.5	
2-Mar-08	2	2	3	4	A	2	2	2	5	4	4	3	4	4	5	9	9	7	4	2	1	2	2	4	3.8	9.1	
3-Mar-08	7	6	4	5	A	4	3	8	18	7	6	2	3	4	2	3	6	3	3	3	3	5	5	5	5.0	18.3	
4-Mar-08	4	4	6	5	A	3	6	3	4	8	6	4	4	4	3	3	3	7	4	7	4	3	3	3	4.6	7.8	
5-Mar-08	3	3	4	2	A	3	3	3	4	4	4	5	6	6	4	5	4	7	7	5	5	6	4	3	2	4.2	7.4
6-Mar-08	4	7	5	7	A	4	4	5	4	3	6	6	3	1	1	1	1	1	2	3	1	1	1	1	3.2	7.0	
7-Mar-08	3	6	2	2	A	2	3	5	4	8	10	8	6	3	2	4	8	9	10	4	3	7	12	5	5.4	12.1	
8-Mar-08	5	7	10	12	A	14	6	13	12	12	6	2	1	1	1	1	1	1	1	1	2	3	4	4	5.2	14.4	
9-Mar-08	5	6	6	8	A	7	7	8	8	6	9	6	6	8	8	9	2	1	1	1	2	2	3	2	5.3	9.2	
10-Mar-08	2	2	2	3	A	5	10	15	11	9	10	11	8	7	7	8	8	9	11	7	4	3	3	3	6.9	15.4	
11-Mar-08	3	3	5	5	A	8	8	9	11	8	6	5	2	2	1	1	1	1	1	1	1	2	1	1	3.7	11.2	
12-Mar-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	3	2	2	1.3	3.0	
13-Mar-08	2	3	4	4	A	7	7	8	8	15	9	8	5	2	1	2	2	2	2	1	1	2	1	1	4.2	15.5	
14-Mar-08	1	1	1	12	A	3	4	6	C	C	C	C	C	2	3	2	3	3	3	3	4	3	3	2	3.4	11.9	
15-Mar-08	3	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	5	8	4	1.8	8.3	
16-Mar-08	5	5	2	2	A	3	13	7	4	5	5	4	4	4	4	5	5	10	8	10	9	10	8	8	6.1	13.0	
17-Mar-08	9	6	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	4	4	1.9	9.0	
18-Mar-08	3	2	2	4	A	4	5	3	4	2	1	1	1	1	1	1	1	1	2	3	5	6	7	4	7	3.1	6.8
19-Mar-08	3	4	3	2	A	3	4	8	5	4	2	1	1	1	1	1	1	1	3	2	4	4	4	3	2.8	7.6	
20-Mar-08	5	5	8	9	A	6	7	22	15	11	5	4	3	2	2	2	1	1	1	2	2	2	2	4	5.4	22.4	
21-Mar-08	3	3	4	9	A	13	9	14	17	14	14	8	7	4	3	3	2	4	4	4	6	4	3	3	6.8	16.6	
22-Mar-08	3	3	2	3	A	4	4	5	5	5	5	4	3	2	3	2	2	2	1	2	2	3	3	3	3.1	5.0	
23-Mar-08	2	2	3	3	A	3	4	3	3	3	4	4	4	4	4	4	4	2	2	4	3	1	1	1	2.9	4.2	
24-Mar-08	1	2	3	4	A	3	4	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1.6	3.7	
25-Mar-08	2	2	2	1	A	4	4	5	2	2	1	1	1	1	1	1	1	1	1	4	3	2	2	5	2.2	5.3	
26-Mar-08	4	3	2	2	A	7	22	13	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	3.3	21.9	
27-Mar-08	1	1	1	1	A	2	7	9	8	6	4	3	3	3	2	3	2	2	3	3	4	3	3	6	3.5	9.0	
28-Mar-08	4	4	4	4	A	3	4	3	2	1	1	1	1	1	2	2	2	2	1	1	2	2	2	2	2.2	4.2	
29-Mar-08	2	2	1	2	A	2	3	2	2	2	1	1	1	1	1	1	1	1	1	3	4	2	2	1	1.7	3.8	
30-Mar-08	2	2	2	2	A	7	6	6	5	4	3	3	2	2	2	2	2	2	1	2	1	1	5	5	3.0	7.1	
31-Mar-08	7	6	9	7	A	7	16	10	7	5	4	3	2	2	1	1	1	1	1	2	2	2	1	3	4.4	15.9	
Hourly Avg	3.4	3.5	3.4	4.2	N	4.5	5.8	6.6	5.9	5.2	4.4	3.6	2.9	2.5	2.3	2.7	2.7	2.8	3.0	2.8	3.0	3.0	3.3	3.2			
Hourly Max	9.0	7.4	9.7	11.9	0.0	14.4	21.9	22.4	18.3	15.5	13.6	10.8	8.0	7.5	7.8	9.2	9.1	9.8	11.3	9.7	9.3	9.6	12.1	8.4			

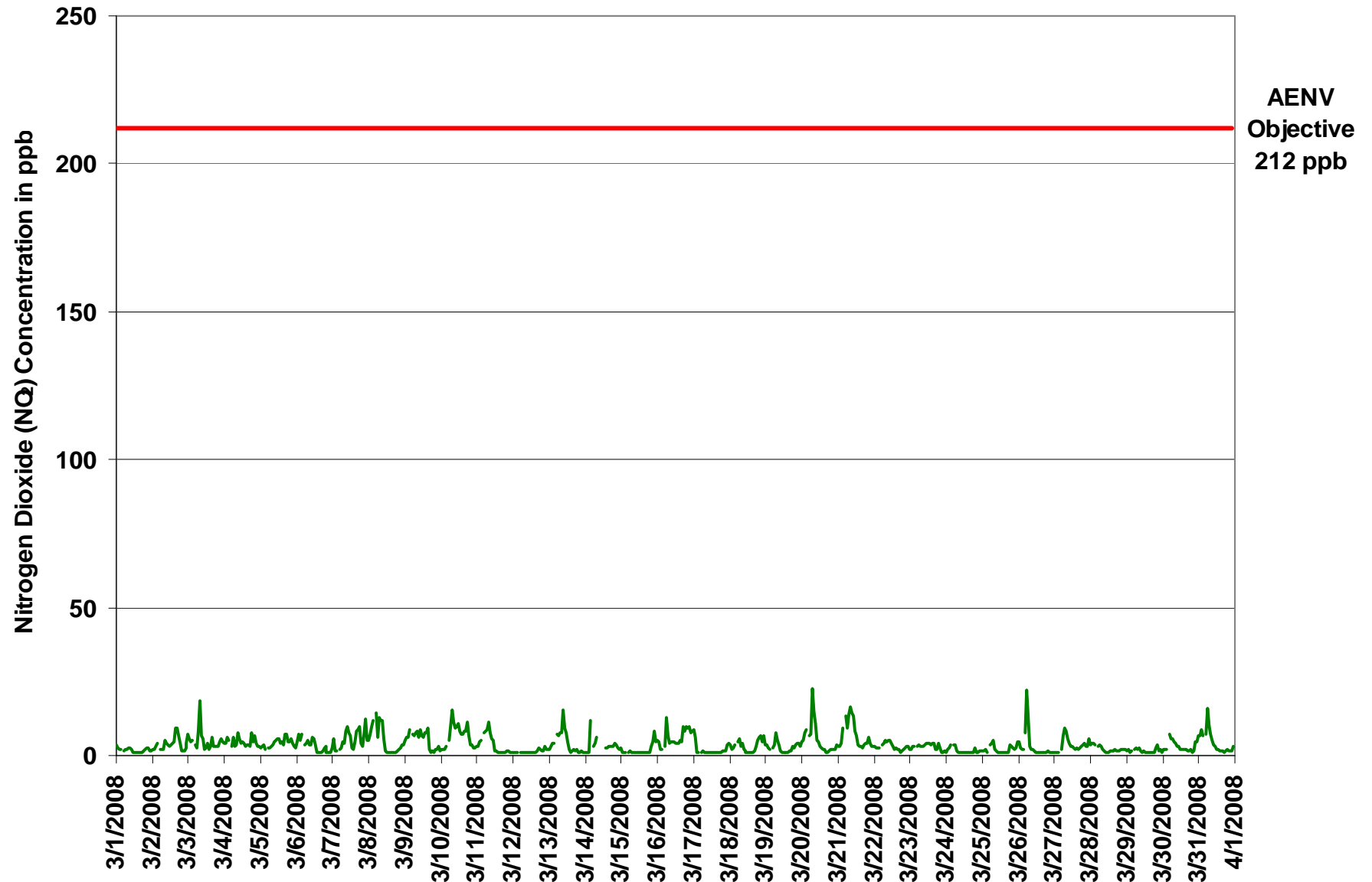


Figure 36. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

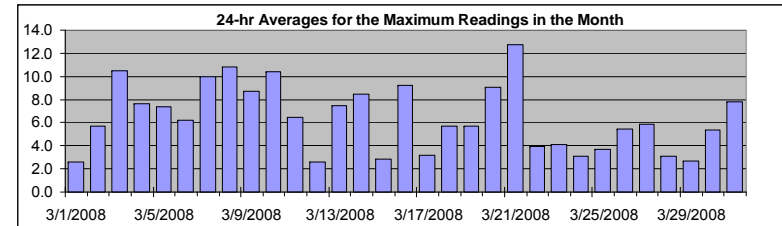
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	54.5	ppb	14-Mar	3:00 4:00
Maximum 24-hr Value:	12.7	ppb	21-Mar	



AIC Time:	31 hrs	Operational Time:	708 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	34.1	17.6	7.9	4.0	2.0	1.0	0.9	6.4 ppb	4.0 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Mar-08	6	4	2	3	A	2	3	2	4	3	3	2	2	1	2	1	2	1	3	3	4	4	2	2	2.6	5.9
2-Mar-08	4	3	4	8	A	3	3	6	8	5	5	4	4	5	6	14	10	10	10	3	3	3	4	7	5.7	14.0
3-Mar-08	9	7	5	6	A	5	4	48	51	21	15	5	4	6	3	8	9	4	5	4	5	7	6	5	10.5	51.4
4-Mar-08	5	5	9	9	A	4	17	5	7	12	7	6	6	6	7	7	7	6	13	9	15	6	6	4	7.7	16.7
5-Mar-08	5	5	10	3	A	7	4	8	5	7	7	7	8	6	9	6	14	15	5	10	13	7	5	5	7.4	15.4
6-Mar-08	8	10	6	10	A	5	6	6	8	5	9	7	7	2	4	3	2	3	6	22	3	2	8	2	6.2	22.2
7-Mar-08	9	12	3	6	A	2	4	8	9	11	15	11	11	7	5	9	11	19	15	5	4	17	31	7	10.0	30.8
8-Mar-08	6	10	12	34	A	22	11	49	30	17	10	4	3	2	2	2	2	2	2	3	4	8	8	6	10.8	49.2
9-Mar-08	7	12	9	11	A	13	8	11	20	9	13	9	7	10	15	14	7	3	3	2	4	6	7	3	8.7	19.6
10-Mar-08	4	3	6	6	A	17	20	19	16	16	14	13	9	9	10	14	11	13	14	11	5	4	4	3	10.4	19.6
11-Mar-08	4	4	9	9	A	16	17	14	19	11	8	7	3	3	3	1	2	3	2	2	4	5	2	2	6.5	19.0
12-Mar-08	3	2	2	1	A	2	2	3	2	2	2	2	2	1	1	2	2	6	6	3	4	5	3	4	2.6	5.9
13-Mar-08	4	4	7	6	A	18	12	15	19	23	12	12	6	4	2	3	3	2	7	2	2	5	2	3	7.5	23.0
14-Mar-08	1	2	3	54	A	4	6	13	C	C	C	C	C	3	16	3	14	3	3	5	6	6	5	3	8.5	54.5
15-Mar-08	3	2	2	2	A	2	2	2	2	2	2	1	1	1	1	1	1	1	1	2	5	8	11	11	2.9	11.1
16-Mar-08	14	7	2	2	A	10	19	12	5	8	7	5	5	5	5	7	6	22	15	16	10	13	9	9	9.3	21.9
17-Mar-08	10	10	2	2	A	2	2	2	2	2	2	1	1	2	1	1	1	2	4	3	3	4	7	8	3.2	10.1
18-Mar-08	4	2	5	6	A	7	9	6	7	3	3	2	2	2	2	2	2	4	8	10	12	11	6	15	5.7	15.1
19-Mar-08	6	6	5	5	A	6	7	11	8	7	3	1	2	2	2	2	2	3	8	6	9	18	5	6	5.7	18.0
20-Mar-08	6	7	17	13	A	14	25	34	18	16	7	6	5	4	3	3	2	2	2	3	3	3	3	12	9.1	34.3
21-Mar-08	8	4	7	25	A	43	21	33	27	17	17	13	8	5	3	3	4	7	7	6	17	7	5	4	12.7	42.8
22-Mar-08	3	3	4	3	A	5	5	5	8	6	6	6	5	4	3	4	3	2	2	2	3	3	3	3	3.9	8.0
23-Mar-08	3	4	3	3	A	4	4	4	4	4	4	4	4	4	4	5	6	3	3	9	8	2	2	3	4.1	9.0
24-Mar-08	2	5	5	4	A	6	8	3	2	2	2	1	1	1	1	1	1	2	2	10	2	3	3	6	3.1	10.0
25-Mar-08	2	4	6	2	A	5	7	8	4	2	2	2	1	1	1	3	2	2	7	5	6	3	4	5	3.7	8.0
26-Mar-08	5	4	3	3	A	15	37	22	7	3	3	2	2	2	2	2	2	2	2	2	2	2	1	1	5.5	37.4
27-Mar-08	2	2	1	2	A	3	18	15	15	7	5	3	3	3	3	3	3	3	6	5	5	5	5	18	5.9	18.0
28-Mar-08	4	5	6	4	A	6	6	5	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3.1	6.0
29-Mar-08	3	3	2	2	A	3	3	4	6	2	4	3	1	1	1	1	1	1	1	5	7	3	3	2	2.7	7.0
30-Mar-08	3	3	2	2	A	10	7	8	6	5	5	3	3	3	3	2	2	2	2	2	2	4	26	19	5.4	26.2
31-Mar-08	16	11	13	11	A	15	31	14	9	8	5	4	2	2	2	2	3	3	4	5	5	5	3	5	7.8	31.3
Hourly Avg	5.4	5.3	5.5	8.3	N	8.9	10.6	12.8	11.0	7.9	6.6	4.9	4.0	3.5	4.0	4.2	4.5	4.9	5.5	5.7	5.7	5.8	6.2	6.0		
Hourly Max	16.5	12.0	17.1	54.5	0.0	42.8	37.4	49.2	51.4	23.0	17.1	13.1	10.9	9.9	15.9	14.0	14.2	21.9	15.1	22.2	17.1	18.0	30.8	19.1		

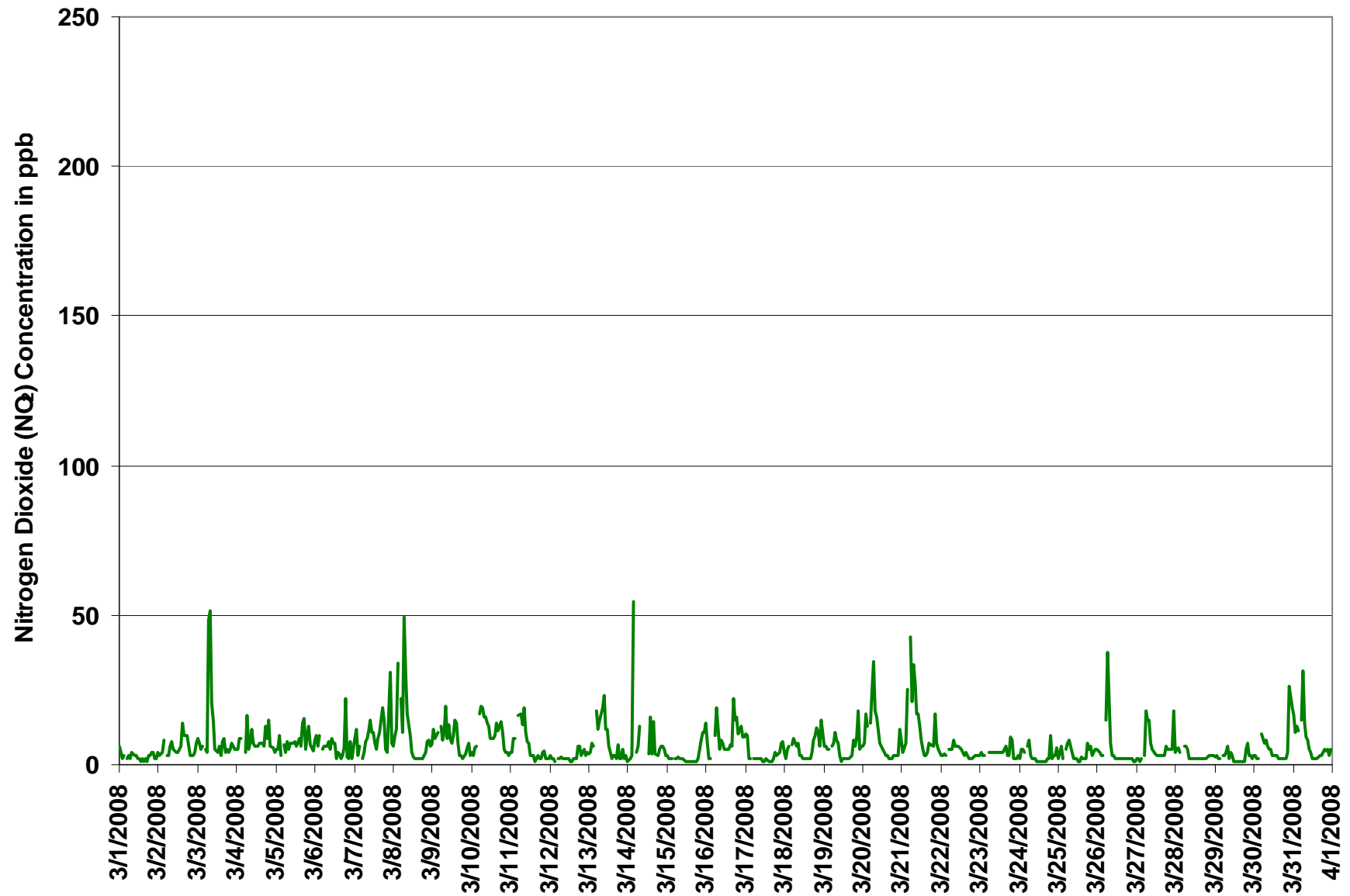
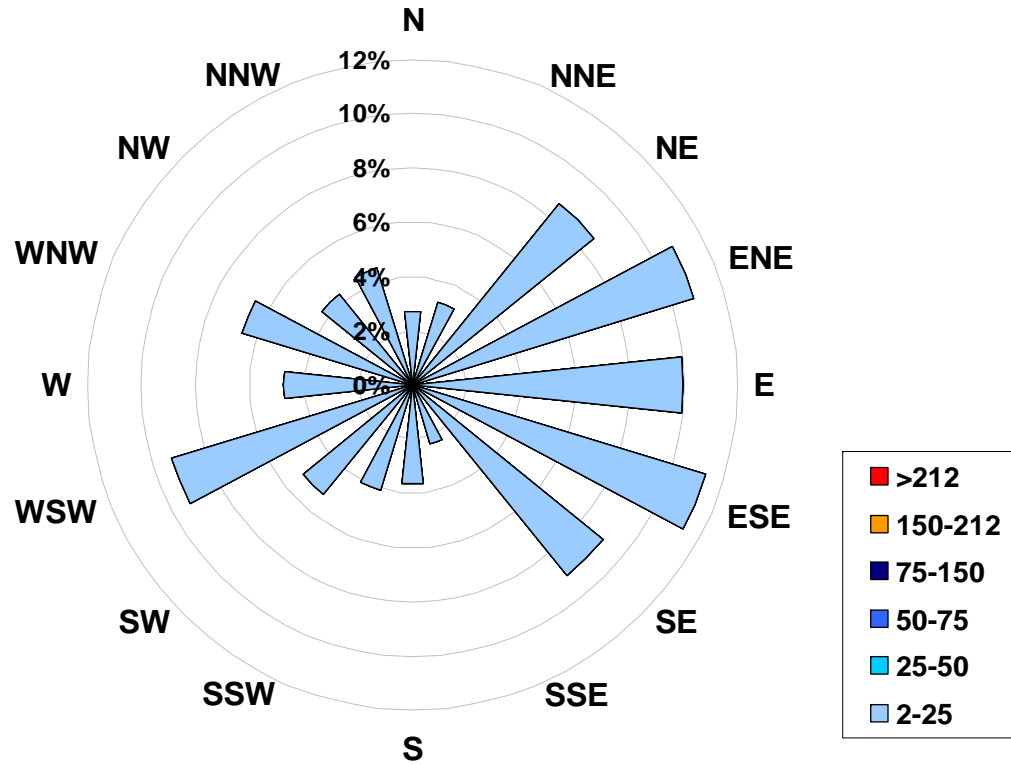


Figure 37. PASZA - Beaverlodge Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Beaverlodge Site for March 2008



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		708
25	to 50		0
50	to 75		0
75	to 150		0
150	to 212		0
	> 212		0
Total Non-Zero Values			708

PASZA - Beaverlodge Nitric Oxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Nitric Oxide (NO)

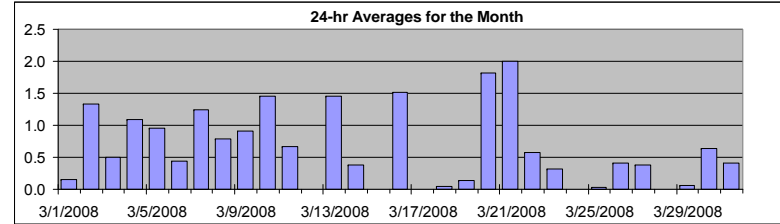
Monitoring Dates: March 1, 2008 to April 1, 2008

Guideline Limit:

1-hr	na	ppb	24-hr	na	ppb
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 Summary

Maximum 1-hr Average:	14.2	ppb	20-Mar	7:00 8:00
Maximum 24-hr Average:	2.0	ppb	21-Mar	



AIC Time:	31 hrs	Operational Time:	708 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	7.8	3.8	0.3	0.0	0.0	0.0	0.0	0.6 ppb	0.0 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	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-Mar-08	0	0	0	0	A	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9
2-Mar-08	0	0	0	0	A	0	0	0	1	2	2	3	3	4	4	7	4	1	0	0	0	0	0	0	0	1.3	6.9
3-Mar-08	0	0	0	0	A	0	0	1	4	2	2	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0.5	4.1
4-Mar-08	0	0	0	0	A	0	0	0	0	5	5	4	4	3	2	2	1	0	0	0	0	0	0	0	0	1.1	4.8
5-Mar-08	0	0	0	0	A	0	0	0	0	1	3	4	4	2	3	1	2	1	0	0	0	0	0	0	0	1.0	4.5
6-Mar-08	0	0	0	0	A	0	0	0	0	1	3	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0.4	3.4
7-Mar-08	0	0	0	0	A	0	0	0	1	3	7	6	5	1	1	2	3	1	0	0	0	0	0	0	0	1.2	6.6
8-Mar-08	0	0	0	0	A	0	0	3	4	8	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	7.7
9-Mar-08	0	0	0	0	A	0	0	0	1	1	4	4	2	2	3	2	0	0	0	0	0	0	0	0	0	0.9	4.0
10-Mar-08	0	0	0	0	A	0	0	0	2	3	5	8	5	4	3	2	1	1	0	0	0	0	0	0	0	1.5	7.8
11-Mar-08	0	0	0	0	A	0	0	0	3	4	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	4.4
12-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
13-Mar-08	0	0	0	0	A	0	0	0	3	11	7	7	3	1	0	0	0	0	0	0	0	0	0	0	0	1.5	11.4
14-Mar-08	0	0	0	4	A	0	0	0	C	C	C	C	C	1	1	0	0	0	0	0	0	0	0	0	0	0.4	3.9
15-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
16-Mar-08	0	0	0	0	A	0	0	0	1	4	5	5	5	4	3	3	2	2	0	0	0	0	0	0	0	1.5	5.3
17-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
18-Mar-08	0	0	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	0.7
19-Mar-08	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.3
20-Mar-08	0	0	0	0	A	0	0	14	10	9	3	3	1	1	1	1	0	0	0	0	0	0	0	0	0	1.8	14.2
21-Mar-08	0	0	0	0	A	1	0	1	11	11	12	5	4	1	1	0	0	0	0	0	0	0	0	0	0	2.0	11.7
22-Mar-08	0	0	0	0	A	0	0	0	1	2	3	3	2	1	0	1	0	0	0	0	0	0	0	0	0	0.6	2.9
23-Mar-08	0	0	0	0	A	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.3	1.3
24-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
25-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
26-Mar-08	0	0	0	0	A	0	6	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	6.2
27-Mar-08	0	0	0	0	A	0	0	0	1	2	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.4	1.7
28-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
29-Mar-08	0	0	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
30-Mar-08	0	0	0	0	A	0	0	2	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0.6	3.4
31-Mar-08	0	0	0	0	A	0	1	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.9
Hourly Avg	0.0	0.0	0.0	0.1	N	0.0	0.2	0.9	1.7	2.7	2.5	2.1	1.5	1.0	0.8	0.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Hourly Max	0.0	0.0	0.0	3.9	0.0	0.7	6.2	14.2	11.0	11.4	11.7	7.8	5.0	4.0	4.0	6.9	3.9	1.7	0.4	0.1	0.0	0.0	0.0	0.0	0.0		

PASZA - Beaverlodge Oxides of Nitrogen Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

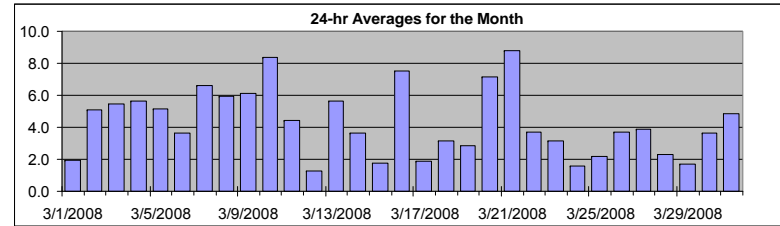
HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Maximum 1-hr Average:	36.7	ppb	20-Mar	7:00 8:00
Maximum 24-hr Average:	8.8	ppb	21-Mar	



AIC Time:	31 hrs	Operational Time:	708 hrs					
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%					
Percentile 99	95	75	50	25	5	1	Average	Median
22.4	12.2	5.4	2.9	1.4	0.9	0.9	4.3 ppb	2.9 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Mar-08	3	3	2	2	A	1	2	2	3	3	2	2	2	1	2	1	2	1	1	2	2	2	1	2	1.9	3.5
2-Mar-08	2	2	3	4	A	2	2	2	6	7	6	6	7	8	9	16	13	8	4	1	1	1	2	4	5.1	16.0
3-Mar-08	7	5	4	5	A	4	3	9	23	9	8	2	3	5	2	4	7	3	3	3	3	5	5	4	5.4	22.5
4-Mar-08	4	4	6	5	A	3	6	3	4	13	11	8	8	8	5	5	4	4	8	4	7	4	3	3	5.6	12.5
5-Mar-08	3	3	3	2	A	2	2	3	4	6	8	10	10	7	8	5	9	9	5	5	5	4	3	2	5.1	10.5
6-Mar-08	4	7	5	7	A	3	4	5	4	5	10	9	5	1	2	1	1	1	2	3	1	1	1	1	3.6	9.7
7-Mar-08	3	5	1	1	A	2	3	5	5	12	16	14	11	4	3	6	11	10	10	4	3	7	12	5	6.6	16.5
8-Mar-08	5	7	9	11	A	14	6	16	16	20	9	2	1	1	1	1	1	1	1	1	2	3	3	4	5.9	19.9
9-Mar-08	5	6	6	8	A	7	6	8	9	8	13	10	8	10	11	12	2	1	1	1	2	2	3	2	6.1	12.9
10-Mar-08	2	2	2	3	A	5	10	16	13	13	15	19	13	11	10	10	9	9	12	6	4	3	3	3	8.4	18.7
11-Mar-08	3	3	5	5	A	8	8	9	15	12	10	9	2	2	1	1	1	1	1	1	1	2	1	1	4.4	14.5
12-Mar-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	3	2	1	1	3	2	2	1.3	2.8
13-Mar-08	2	3	4	4	A	7	7	8	11	27	17	15	8	3	1	2	2	2	2	1	1	1	1	1	5.7	27.1
14-Mar-08	1	1	1	16	A	3	4	6	C	C	C	C	C	3	4	3	4	3	2	3	4	3	2	2	3.6	15.7
15-Mar-08	2	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	4	8	4	1.7	8.0
16-Mar-08	5	5	2	2	A	3	13	7	5	9	10	10	9	8	7	8	6	12	8	10	9	9	8	8	7.5	13.0
17-Mar-08	9	6	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	4	1.9	8.8
18-Mar-08	3	2	2	4	A	4	5	3	5	3	2	1	1	1	1	1	1	2	3	5	6	7	4	6	3.2	6.6
19-Mar-08	3	3	3	2	A	2	3	8	6	5	2	1	1	1	1	1	1	1	3	2	3	4	4	3	2.9	8.0
20-Mar-08	5	5	8	9	A	6	7	37	25	20	8	7	5	3	3	3	1	1	1	2	2	2	2	3	7.1	36.7
21-Mar-08	3	3	4	9	A	14	9	15	28	25	25	13	11	5	4	3	3	4	4	4	6	4	3	3	8.8	27.8
22-Mar-08	3	3	2	2	A	3	4	5	6	7	8	8	7	4	2	4	2	2	1	1	2	2	3	3	3.7	8.4
23-Mar-08	2	2	2	3	A	3	3	3	3	3	5	5	5	5	4	5	5	2	2	4	2	1	1	1	3.1	5.0
24-Mar-08	1	2	3	4	A	3	4	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1.6	3.6
25-Mar-08	1	2	2	1	A	3	4	6	3	2	2	1	1	1	1	1	1	1	4	3	2	2	2	5	2.2	5.6
26-Mar-08	4	2	2	2	A	7	28	15	3	3	3	2	2	2	1	1	1	1	1	1	1	1	1	1	3.7	28.1
27-Mar-08	1	1	1	1	A	2	7	10	9	7	5	4	4	3	3	3	3	3	3	3	4	3	3	5	3.9	9.5
28-Mar-08	4	4	4	4	A	3	4	3	2	2	2	2	2	2	2	2	2	1	1	1	1	2	2	2	2.3	4.1
29-Mar-08	1	2	1	2	A	2	3	2	3	2	1	2	1	1	1	1	1	1	1	3	4	1	2	1	1.7	3.6
30-Mar-08	2	2	2	2	A	7	6	7	8	8	5	4	3	3	3	2	2	2	1	2	1	1	5	5	3.6	8.2
31-Mar-08	7	6	9	7	A	7	17	12	9	7	5	4	3	2	1	2	1	1	1	2	1	2	1	3	4.8	17.1
Hourly Avg	3.3	3.3	3.3	4.1	N	4.4	5.9	7.4	7.7	8.0	7.0	5.8	4.6	3.5	3.1	3.5	3.3	3.0	3.0	2.7	2.9	2.9	3.1	3.1		
Hourly Max	8.8	7.3	9.5	15.7	0.0	14.3	28.1	36.7	27.8	27.1	25.4	18.7	13.3	10.7	11.1	16.0	13.0	11.6	11.5	9.5	9.1	9.4	12.0	8.4		

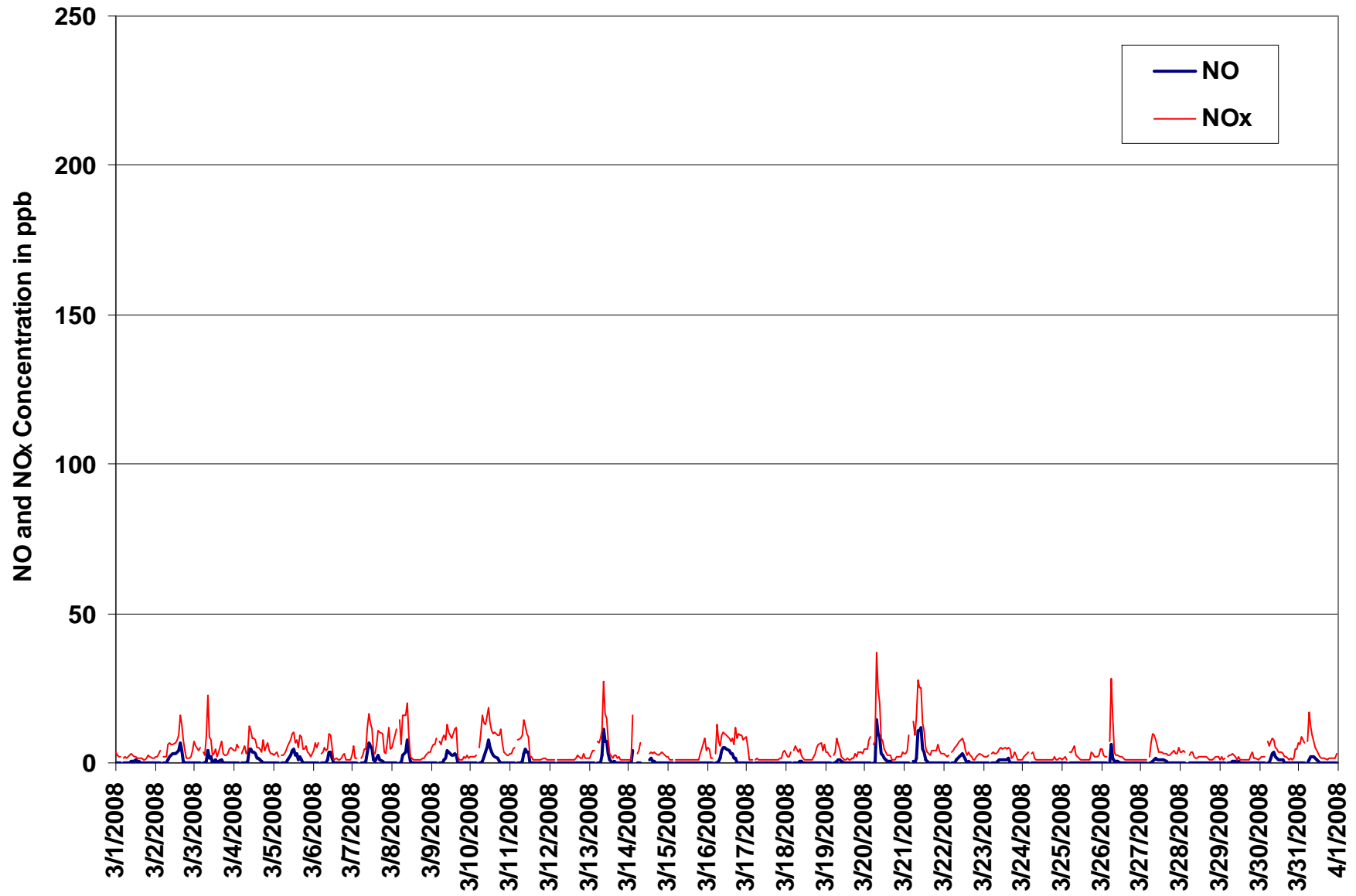


Figure 38. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

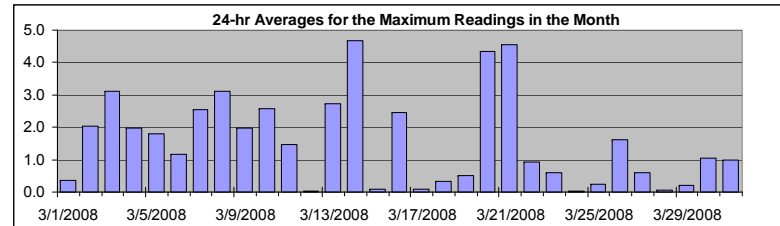
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	56.0	ppb	14-Mar	3:00 4:00
Maximum 24-hr Value:	4.7	ppb	14-Mar	



AIC Time:	31 hrs	Operational Time:	708 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	17.8	7.4	1.0	0.0	0.0	0.0	0.0	1.5 ppb	0.0 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-Mar-08	0	0	0	0	A	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0.4	1.0
2-Mar-08	0	0	0	0	A	0	0	0	2	4	3	4	4	5	5	12	6	2	1	0	0	0	0	0	2.0	11.9
3-Mar-08	0	0	0	0	A	0	0	17	28	9	8	2	1	1	1	2	2	1	0	0	0	0	0	0	3.1	28.1
4-Mar-08	0	0	0	0	A	0	0	1	3	6	6	5	6	5	5	4	2	1	1	0	0	0	0	0	2.0	5.9
5-Mar-08	0	0	0	0	A	0	0	0	1	3	5	5	6	4	6	3	5	4	0	0	0	0	0	0	1.8	6.0
6-Mar-08	0	0	0	0	A	0	0	0	1	2	6	5	4	1	2	2	0	0	0	4	0	0	1	0	1.2	5.9
7-Mar-08	0	0	0	0	A	0	0	0	3	6	13	8	9	4	2	4	5	3	2	0	0	0	0	0	2.5	12.9
8-Mar-08	0	0	0	0	A	1	0	30	17	13	7	2	1	0	0	0	1	0	0	0	0	0	0	0	3.1	29.9
9-Mar-08	0	0	0	0	A	0	0	1	7	3	8	6	4	4	8	4	1	0	0	0	0	0	0	0	2.0	7.9
10-Mar-08	0	0	0	0	A	0	0	1	4	9	9	12	7	5	4	4	3	1	1	0	0	0	0	0	2.6	11.9
11-Mar-08	0	0	0	0	A	0	1	2	7	7	6	6	1	1	1	0	1	1	0	0	0	0	0	0	1.5	7.4
12-Mar-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.0	0.9
13-Mar-08	0	0	0	0	A	0	0	2	11	16	11	13	4	2	1	1	1	0	1	0	0	0	0	0	2.7	15.9
14-Mar-08	0	0	0	56	A	0	0	2	C	C	C	C	C	1	18	1	7	0	0	0	0	0	0	0	4.7	56.0
15-Mar-08	0	0	0	0	A	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
16-Mar-08	0	0	0	0	A	0	1	1	2	8	8	6	6	6	4	4	3	7	2	0	0	0	0	0	2.5	7.9
17-Mar-08	0	0	0	0	A	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0.1	0.9
18-Mar-08	0	0	0	0	A	0	0	1	2	1	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0.3	1.9
19-Mar-08	0	0	0	0	A	0	0	1	2	3	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0.5	2.9
20-Mar-08	0	0	0	0	A	1	10	42	19	14	5	3	3	2	1	1	0	0	0	0	0	0	0	0	4.3	41.9
21-Mar-08	0	0	0	1	A	10	0	4	37	17	17	10	4	2	1	1	1	0	0	0	0	0	0	0	4.6	36.9
22-Mar-08	0	0	0	0	A	0	0	1	2	3	4	4	3	2	1	1	1	0	0	0	0	0	0	0	0.9	3.9
23-Mar-08	0	0	0	0	A	0	0	0	0	1	2	2	2	2	2	2	1	0	0	0	0	0	0	0	0.6	2.0
24-Mar-08	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.9
25-Mar-08	0	0	0	0	A	0	0	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0.2	1.0
26-Mar-08	0	0	0	0	A	1	26	6	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1.6	26.2
27-Mar-08	0	0	0	0	A	0	0	2	2	3	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0.6	2.9
28-Mar-08	0	0	0	0	A	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
29-Mar-08	0	0	0	0	A	0	0	0	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.0
30-Mar-08	0	0	0	0	A	0	1	4	4	4	3	2	2	1	1	1	1	0	0	0	0	0	1	0	1.0	4.0
31-Mar-08	0	0	0	0	A	0	10	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1.0	9.9
Hourly Avg	0.0	0.0	0.0	1.8	N	0.4	1.5	3.9	5.4	4.6	4.4	3.4	2.4	1.6	2.1	1.6	1.3	0.7	0.2	0.1	0.0	0.0	0.1	0.0		
Hourly Max	0.0	0.0	0.0	56.0	0.0	10.4	26.2	41.9	36.9	16.9	16.9	12.9	8.9	5.9	17.9	11.9	6.6	6.7	1.9	3.9	0.9	0.0	0.9	0.0		

Station: Beaverlodge
 Station Owner: PASZA

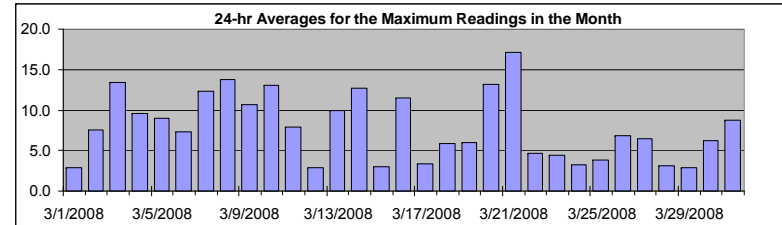
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	110.9	ppb	14-Mar	3:00 4:00
Maximum 24-hr Value:	17.1	ppb	21-Mar	



AIC Time:	31 hrs	Operational Time:	708 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	52.3	23.7	9.4	4.9	2.9	1.9	0.9	7.8 ppb	4.9 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-Mar-08	6	4	2	3	A	2	3	3	5	4	4	3	3	2	2	2	2	1	2	2	3	4	2	2	2.8	6.0
2-Mar-08	4	3	4	8	A	3	2	6	8	9	8	8	8	10	11	26	16	11	10	3	4	3	4	7	7.6	26.0
3-Mar-08	8	7	5	6	A	5	4	65	77	30	23	6	6	7	4	10	10	5	5	4	5	7	6	5	13.4	76.7
4-Mar-08	5	5	9	8	A	4	17	6	10	18	13	11	12	10	13	11	10	8	13	9	15	6	5	4	9.6	17.6
5-Mar-08	5	5	9	3	A	7	4	9	6	9	12	11	14	10	15	8	19	19	5	9	13	6	5	4	9.0	19.0
6-Mar-08	8	10	6	9	A	5	6	6	8	7	15	12	11	2	6	5	3	3	6	27	2	2	9	2	7.3	26.6
7-Mar-08	9	11	3	6	A	2	3	8	12	16	27	19	19	11	7	13	16	22	17	5	4	17	31	7	12.4	30.8
8-Mar-08	5	10	12	34	A	23	11	78	47	30	17	6	4	2	2	3	2	2	3	4	8	9	6	3	13.8	77.8
9-Mar-08	6	12	9	11	A	13	8	11	27	12	21	15	11	14	23	18	8	3	3	2	3	5	7	3	10.6	26.9
10-Mar-08	4	3	5	6	A	17	20	20	19	25	24	25	16	13	15	17	15	14	15	11	5	4	4	3	13.0	25.1
11-Mar-08	4	4	9	9	A	16	17	15	27	17	14	13	4	4	3	2	3	4	3	2	4	5	2	2	7.9	26.9
12-Mar-08	4	2	2	1	A	2	2	3	2	2	3	2	3	1	2	3	3	6	7	3	4	5	3	4	2.9	6.7
13-Mar-08	3	4	7	6	A	18	12	17	28	38	23	25	10	6	2	3	4	3	8	2	2	5	2	3	10.0	38.1
14-Mar-08	1	2	3	111	A	4	6	13	C	C	C	C	C	C	4	28	3	20	4	4	5	6	5	3	12.7	110.9
15-Mar-08	3	2	2	2	A	2	2	2	2	2	2	1	2	1	1	2	2	1	1	2	5	8	11	11	2.9	11.0
16-Mar-08	14	7	2	2	A	10	19	12	7	16	15	12	11	11	8	10	10	28	15	16	10	12	8	9	11.5	28.3
17-Mar-08	10	10	2	2	A	2	3	2	2	2	3	2	1	2	1	2	2	2	4	3	3	4	7	7	3.3	10.0
18-Mar-08	4	2	5	6	A	7	9	7	8	4	4	2	2	2	2	3	3	5	8	10	12	11	6	15	5.9	15.0
19-Mar-08	6	6	4	5	A	5	7	12	9	10	4	2	2	3	2	2	3	3	9	6	10	18	5	5	6.0	17.9
20-Mar-08	6	7	17	13	A	14	35	75	35	28	13	9	7	7	4	4	2	2	2	3	3	3	3	12	13.2	74.6
21-Mar-08	8	4	7	26	A	53	21	37	63	34	34	22	12	7	4	4	5	7	7	6	17	6	5	4	17.1	62.9
22-Mar-08	3	3	3	3	A	4	5	6	10	8	10	9	8	5	3	5	4	2	2	2	2	3	3	3	4.6	10.0
23-Mar-08	3	4	3	3	A	4	4	4	4	4	6	5	5	6	6	6	7	3	3	9	8	2	2	2	4.5	9.0
24-Mar-08	2	4	5	4	A	6	8	3	2	2	2	2	2	2	2	1	1	2	2	10	2	3	3	5	3.3	10.3
25-Mar-08	2	4	7	2	A	5	7	8	4	3	3	2	1	1	3	2	2	2	8	5	5	3	4	5	3.8	8.0
26-Mar-08	5	4	3	3	A	15	61	27	9	4	4	3	2	2	2	2	2	2	2	1	2	2	1	1	6.9	60.9
27-Mar-08	2	2	1	1	A	3	18	17	17	10	7	5	4	4	3	4	3	3	7	5	5	5	5	18	6.4	18.1
28-Mar-08	4	5	5	4	A	5	6	6	3	2	2	2	2	2	2	2	3	2	2	2	2	3	3	3	3.1	6.0
29-Mar-08	2	3	2	2	A	3	3	4	8	3	5	5	1	1	1	1	1	1	1	5	7	3	2	2	2.8	8.0
30-Mar-08	3	3	2	2	A	10	7	10	10	9	8	5	4	4	4	3	3	2	2	2	2	4	26	19	6.3	26.1
31-Mar-08	17	11	13	11	A	15	41	16	11	11	7	5	3	3	2	2	3	3	4	5	5	5	3	5	8.7	40.6
Hourly Avg	5.3	5.2	5.4	10.0	N	9.1	11.9	16.3	16.0	12.3	11.1	8.3	6.3	5.1	5.9	5.7	6.0	5.6	5.8	5.7	5.6	5.7	6.1	5.8		
Hourly Max	17.1	12.0	17.0	110.9	0.0	52.7	60.9	77.8	76.7	38.1	34.2	25.0	19.0	13.8	28.3	26.0	20.2	28.3	17.0	26.6	17.1	17.9	30.8	19.1		

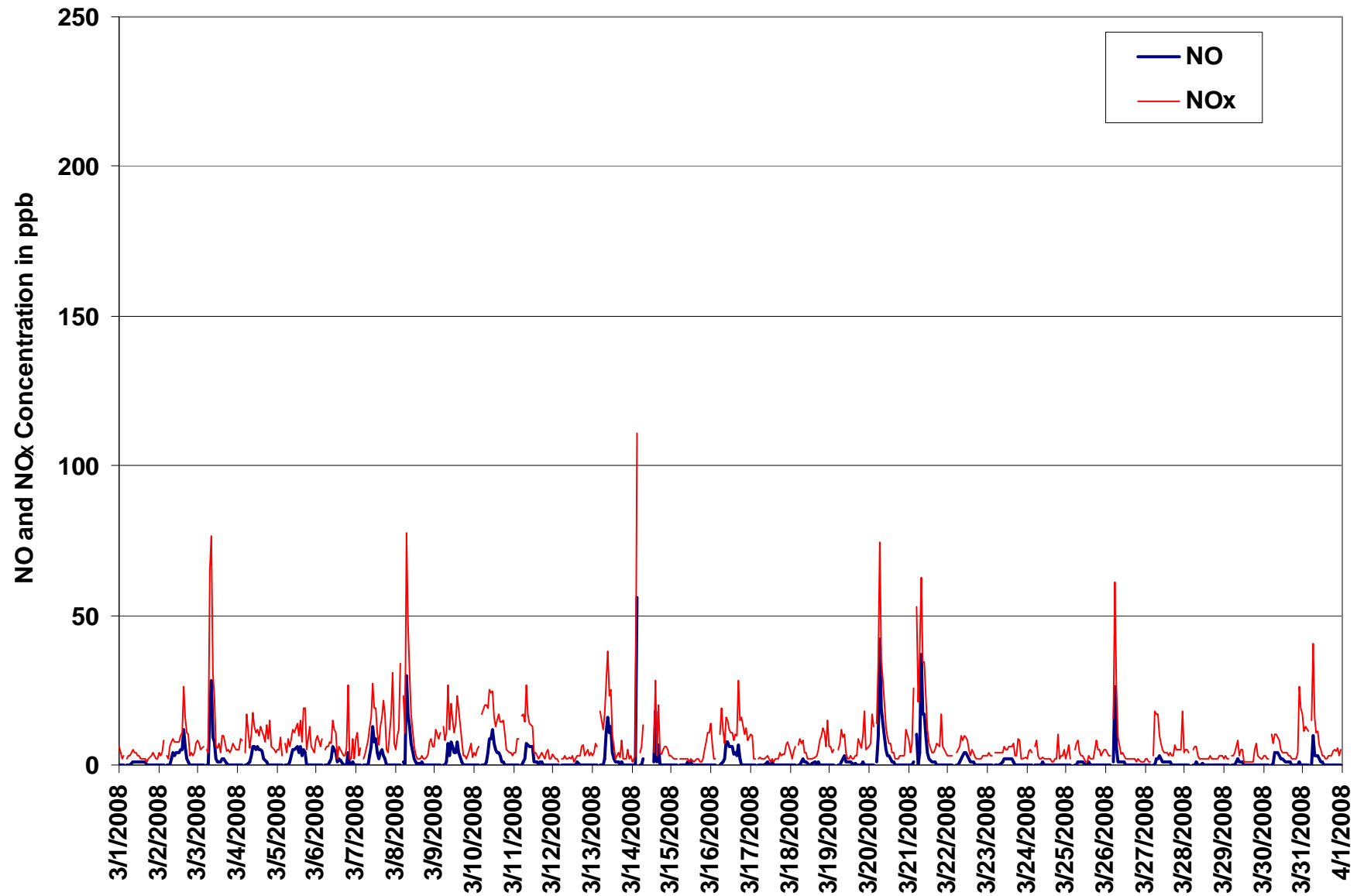


Figure 39. PASZA - Beaverlodge Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

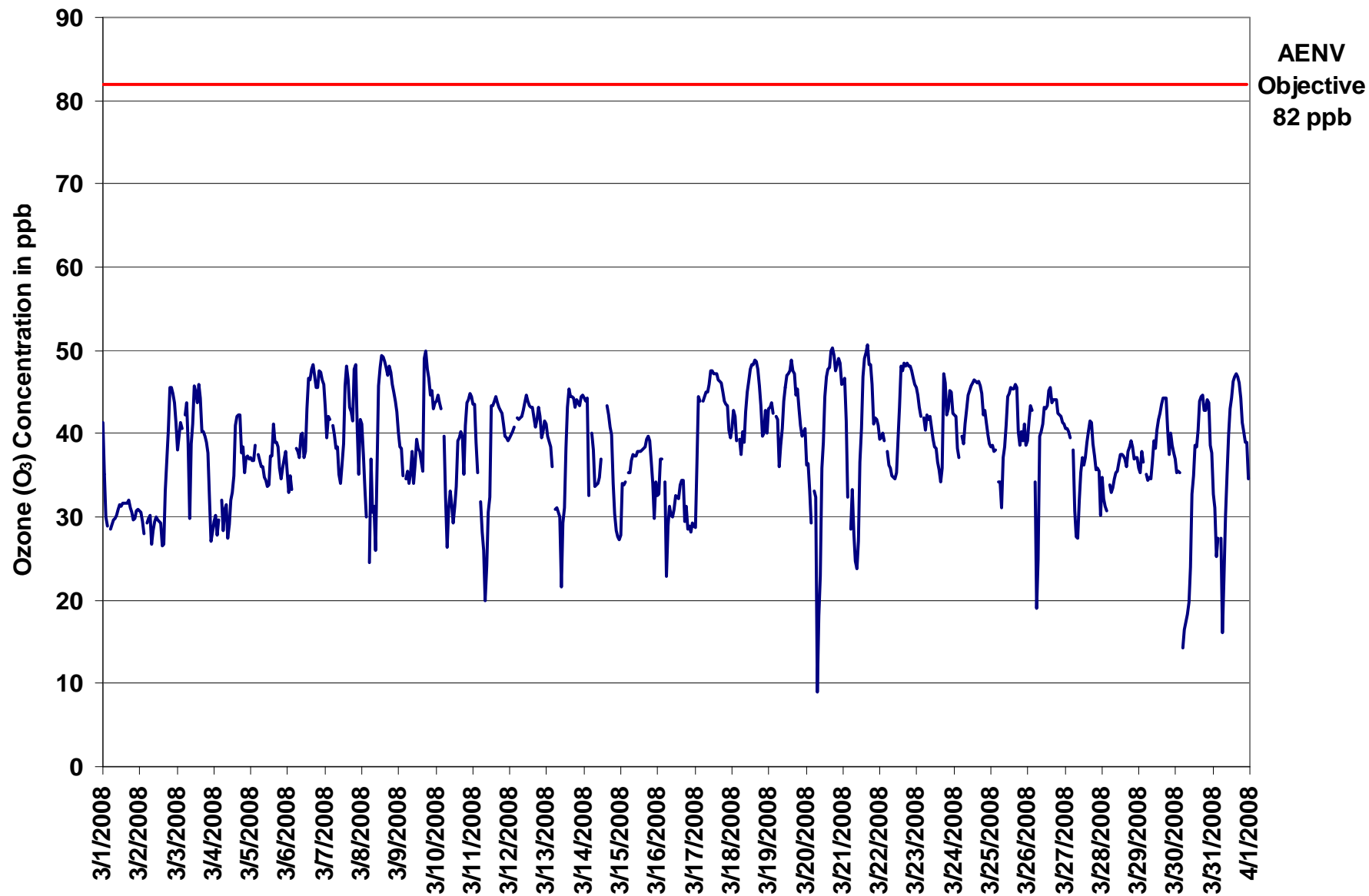


Figure 40. PASZA - Beaverlodge Ozone 1-hr Average Monthly Trend

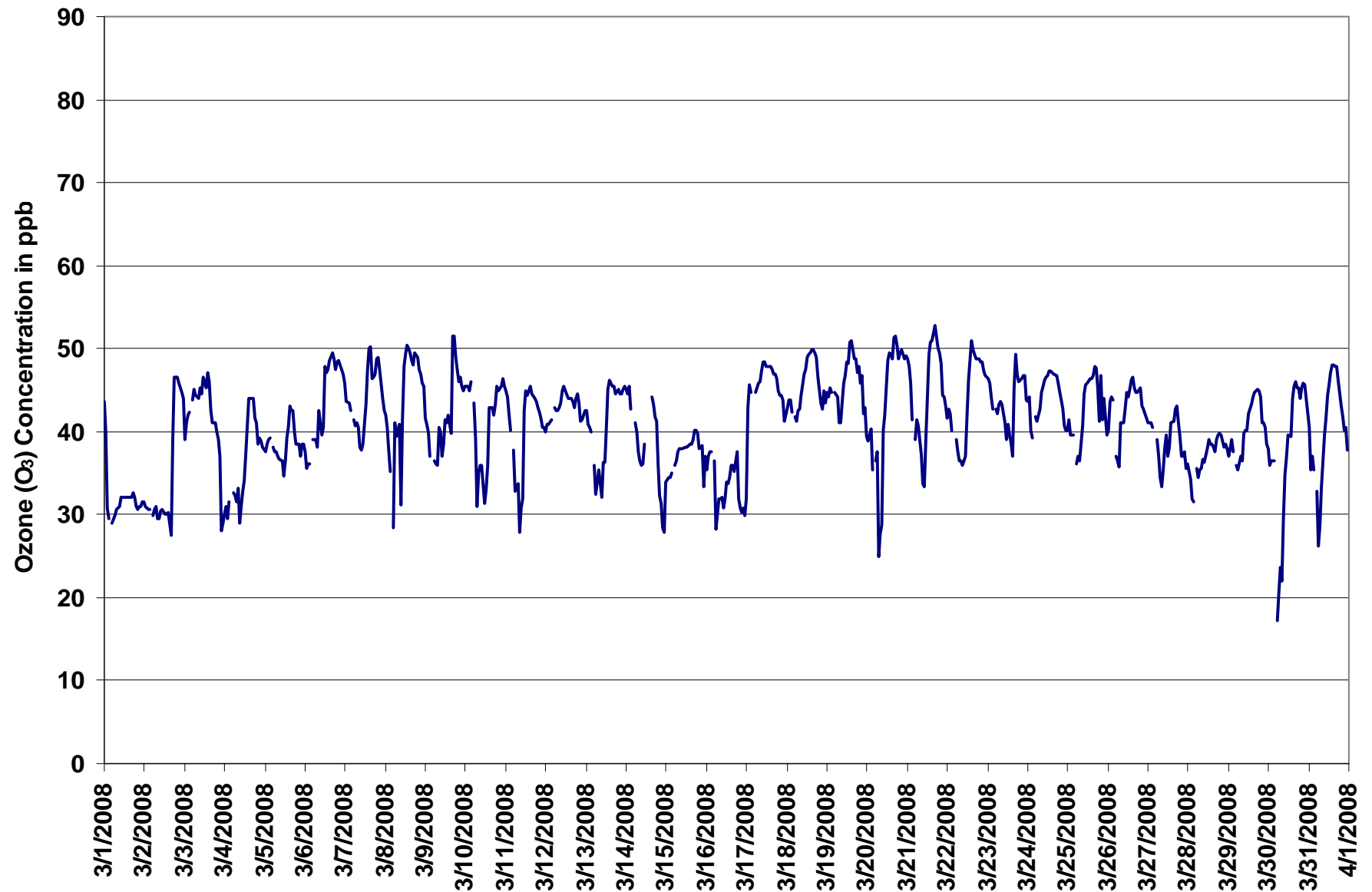
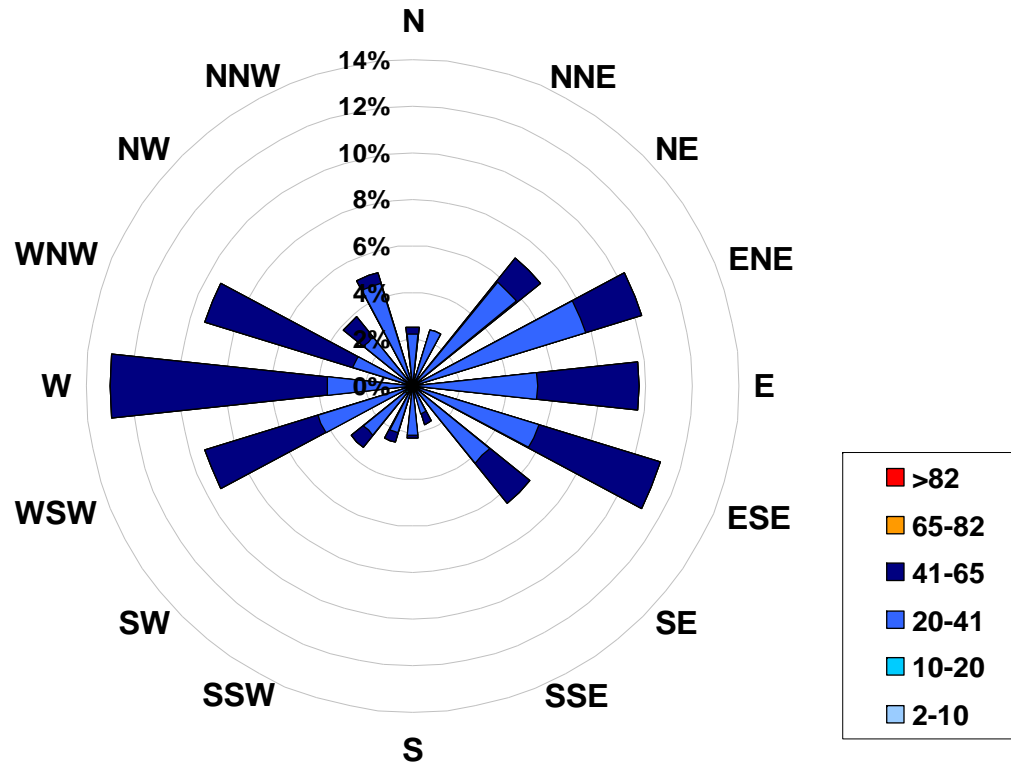


Figure 41. PASZA - Beaverlodge Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Beaverlodge Site for March 2008



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	< 10		1
10	to 20		7
20	to 41		415
41	to 65		287
65	to 82		0
	> 82		0
Total Non-Zero Values			710

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

Station: Beaverlodge
 Station Owner: PASZA

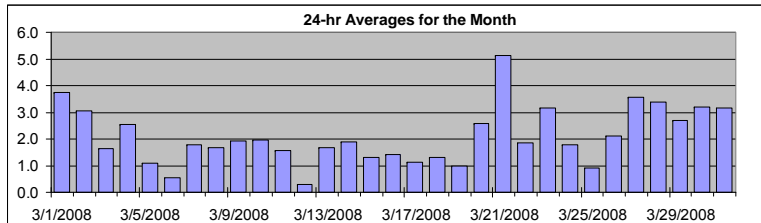
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Number of 24-hr Exceedances (draft):	0				
Maximum 1-hr Average:	13.2	µg/m ³	23-Mar	16:00	17:00
Maximum 24-hr Value:	5.1	µg/m ³	21-Mar		



AIC Time:	0 hrs	Operational Time:	742 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	7.6	5.1	3.2	1.8	0.7	0.0	0.0	2.1 2 µg/m ³	1.8 µg/m ³

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start 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-Mar-08	6	7	0	3	3	5	2	3	4	4	3	3	3	3	4	4	3	4	4	4	4	5	4	4	3.7	6.9
2-Mar-08	4	3	3	3	2	2	2	2	3	4	6	4	4	3	4	6	6	5	4	1	0	1	0	0	3.1	6.0
3-Mar-08	0	0	0	0	0	0	0	0	1	2	3	1	2	1	1	2	2	2	2	4	4	4	5	5	1.6	4.9
4-Mar-08	5	5	5	4	4	8	4	4	4	5	0	2	2	2	0	0	0	1	2	2	1	1	1	1	2.5	7.6
5-Mar-08	1	1	0	0	1	0	0	0	2	1	1	1	3	1	2	2	3	2	1	1	1	1	1	0	1.1	2.6
6-Mar-08	0	0	0	0	0	0	0	1	1	0	1	2	1	0	0	0	1	1	1	0	0	1	2	1	0.5	2.2
7-Mar-08	4	2	1	2	2	1	1	1	1	2	3	3	2	1	1	1	0	2	3	1	1	2	3	2	1.8	3.9
8-Mar-08	2	2	2	2	3	3	3	2	2	3	0	0	0	1	1	1	1	0	1	1	1	1	2	2	1.7	3.4
9-Mar-08	2	2	1	0	1	1	2	2	2	2	3	5	3	4	4	5	3	1	1	1	1	0	0	0	1.9	4.9
10-Mar-08	0	1	1	1	0	1	1	2	2	3	3	5	4	4	3	2	2	3	4	1	0	1	1	1	2.0	4.7
11-Mar-08	1	2	3	3	1	3	5	2	3	4	5	4	0	0	0	0	0	0	0	0	0	0	0	0	1.6	5.1
12-Mar-08	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	0	1	1	0	1	0	0.3	1.1
13-Mar-08	0	0	1	0	1	2	2	3	4	6	4	4	2	0	0	3	1	1	0	2	1	1	0	0	1.7	6.1
14-Mar-08	0	0	0	1	1	0	1	2	2	2	2	2	2	3	4	3	3	4	3	2	2	2	2	1	1.9	4.4
15-Mar-08	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	2	2	1	2	2	1	2	1	1	1.3	2.0
16-Mar-08	1	2	0	0	0	0	0	2	2	1	4	1	0	1	2	2	1	2	0	2	3	2	3	3	1.4	3.7
17-Mar-08	3	2	3	1	0	1	1	1	0	1	1	1	1	1	0	0	0	1	1	3	2	1	1	0	1.1	3.4
18-Mar-08	1	0	0	0	0	0	0	0	1	2	1	1	0	0	1	0	1	1	2	3	4	4	4	4	1.3	4.2
19-Mar-08	3	3	2	0	1	0	0	1	1	2	1	0	0	0	0	0	1	0	2	2	1	2	2	1	1.0	3.2
20-Mar-08	2	1	2	3	2	2	2	9	6	6	2	4	1	1	2	2	2	1	2	4	2	2	2	2	2.6	8.6
21-Mar-08	2	3	2	4	4	5	4	5	6	11	8	6	8	5	3	3	3	10	8	6	6	5	3	3	5.1	10.9
22-Mar-08	2	2	2	1	1	3	4	4	4	3	5	4	1	1	0	2	1	1	0	1	0	0	1	1	1.9	5.4
23-Mar-08	0	1	2	2	2	2	3	4	3	3	2	6	6	7	6	7	13	0	0	0	D	0	0	0	3.2	13.2
24-Mar-08	0	0	3	1	1	2	2	2	3	2	2	2	3	3	4	2	2	2	2	2	2	1	0	1	1.8	4.2
25-Mar-08	1	1	1	0	0	1	1	2	2	2	0	0	0	0	0	1	0	1	3	2	1	2	0	1	0.9	2.7
26-Mar-08	3	1	0	1	2	3	4	5	2	2	P	1	3	1	2	1	2	2	3	3	3	2	2	2	2.1	4.5
27-Mar-08	2	2	2	3	2	3	4	7	5	4	4	4	4	4	4	4	4	3	3	3	4	3	2	4	3.6	6.6
28-Mar-08	3	3	6	5	3	3	3	3	3	3	3	2	3	4	3	3	3	3	3	4	5	4	3	4	3.4	5.6
29-Mar-08	3	3	2	2	3	3	3	3	4	3	3	3	2	2	2	3	2	2	2	2	4	3	3	2	2.7	4.5
30-Mar-08	2	3	3	3	3	2	3	7	5	4	3	3	3	4	2	3	4	3	3	2	1	1	4	3	3.2	7.1
31-Mar-08	3	4	4	3	4	4	6	8	4	6	6	4	4	2	4	0	0	0	1	2	2	1	2	2	3.2	8.1
Hourly Avg	1.9	1.9	1.7	1.6	1.6	2.0	2.2	2.8	2.7	3.0	2.9	2.5	2.2	2.0	1.9	2.1	2.2	2.0	2.0	2.1	2.0	1.8	1.8	1.6		
Hourly Max	6.1	6.9	5.6	4.8	4.5	7.6	6.2	8.6	6.0	10.9	8.4	6.2	7.6	6.9	6.3	7.1	13.2	9.6	8.2	6.1	5.9	4.8	4.9	4.5		

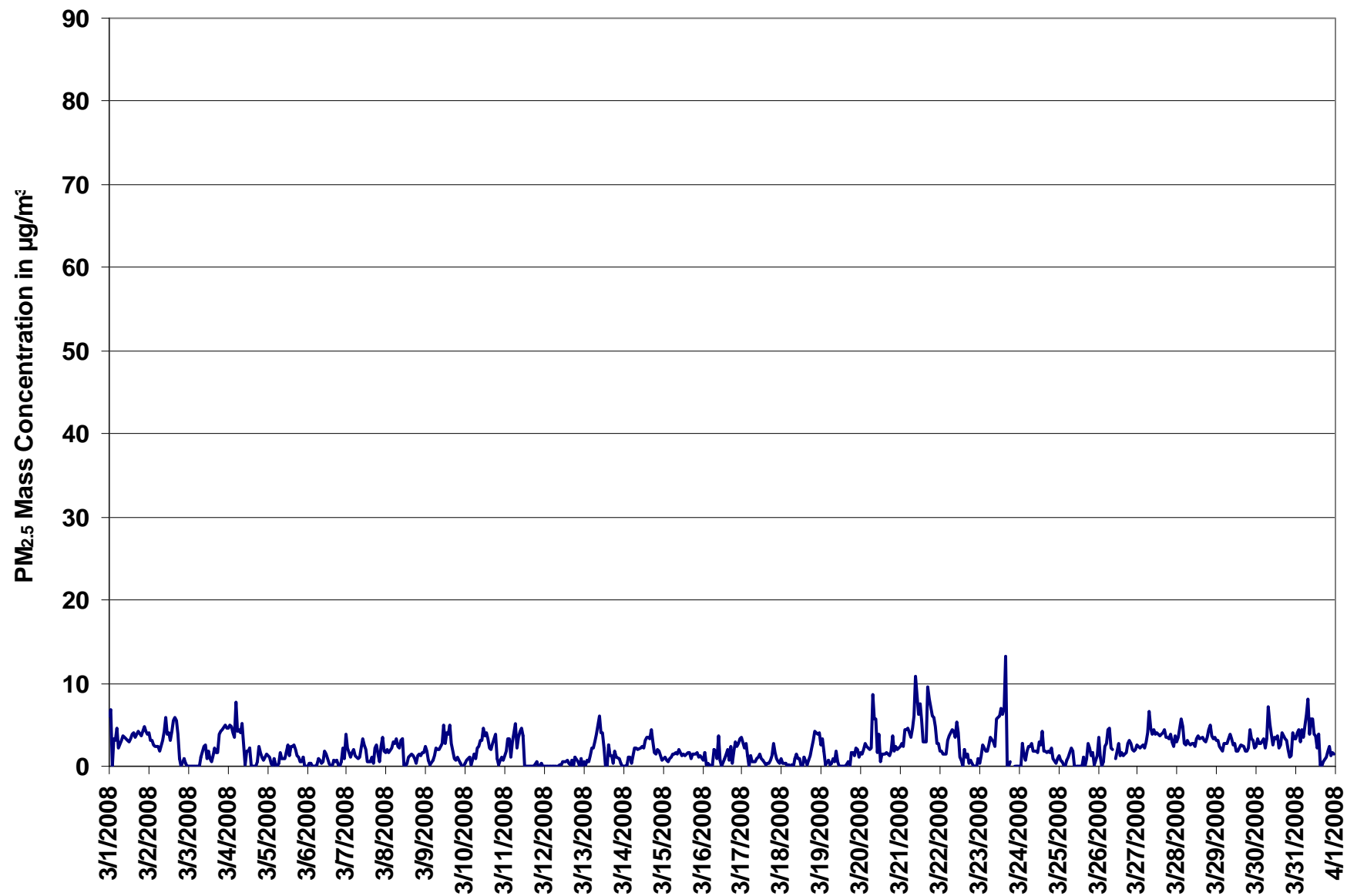


Figure 42. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

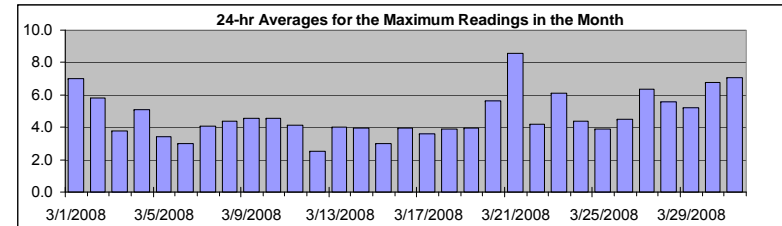
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	22.7	µg/m ³	23-Mar	16:00 17:00
Maximum 24-hr Value:	8.6	µg/m ³	21-Mar	



AIC Time:	0 hrs	Operational Time:	743 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	13.7	9.5	5.9	4.4	3.0	1.7	1.0	4.7	4 µg/m ³

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Mar-08	20	15	5	6	5	10	6	6	5	6	7	5	6	6	5	7	5	6	5	6	7	6	6	7.0	20.2	
2-Mar-08	7	5	5	5	5	4	4	4	6	6	9	6	7	8	7	8	8	13	11	3	2	3	3	1	5.8	13.5
3-Mar-08	2	2	1	2	2	1	1	3	4	5	5	3	3	3	3	4	4	5	5	7	7	6	7	7	3.8	7.5
4-Mar-08	8	7	7	6	7	10	7	7	7	9	5	5	4	7	2	1	2	1	4	6	4	3	2	4	5.1	10.3
5-Mar-08	3	4	4	2	3	3	2	5	4	3	2	3	7	3	5	5	5	5	3	3	3	2	3	1	3.4	7.1
6-Mar-08	2	2	2	1	1	1	2	3	2	2	3	5	5	3	4	5	5	4	4	2	3	3	4	3	3.0	5.4
7-Mar-08	9	4	4	3	4	3	3	4	4	4	7	6	6	4	2	3	2	5	5	3	2	4	6	3	4.1	8.8
8-Mar-08	3	3	3	5	6	6	10	7	5	6	7	4	2	4	4	5	3	3	3	4	3	3	3	4	4.3	9.7
9-Mar-08	5	4	3	2	3	4	4	5	5	5	5	8	5	8	7	11	6	3	4	4	3	2	2	2	4.6	10.8
10-Mar-08	2	3	3	3	3	4	5	5	7	6	6	6	6	6	7	5	4	6	6	5	1	3	3	3	4.5	6.6
11-Mar-08	5	5	7	5	5	7	10	4	6	7	7	7	3	3	1	1	2	2	2	2	2	2	2	1	4.1	10.3
12-Mar-08	1	1	1	1	1	1	2	2	3	3	3	5	4	4	3	3	3	4	2	4	3	2	3	2	2.5	4.8
13-Mar-08	2	2	2	2	3	4	4	5	7	9	6	6	4	3	3	7	6	5	2	4	3	3	2	1	4.0	8.8
14-Mar-08	1	1	2	3	3	2	3	7	4	5	4	4	5	5	5	6	5	6	5	4	3	4	4	2	4.0	7.4
15-Mar-08	3	3	3	2	2	3	3	3	3	3	4	3	3	3	4	3	3	2	3	3	3	3	2	3	3.0	3.8
16-Mar-08	3	4	2	3	3	2	2	5	3	4	11	6	3	3	5	4	3	5	2	4	5	4	5	5	4.0	11.1
17-Mar-08	5	7	6	3	2	4	2	2	3	3	5	5	4	4	3	3	3	3	6	5	3	3	2	2	3.6	6.6
18-Mar-08	2	3	3	2	2	2	2	2	3	7	3	3	3	4	3	2	5	6	5	7	6	7	5	7	3.9	7.2
19-Mar-08	5	6	4	3	3	2	2	2	2	5	3	3	4	2	2	4	5	6	6	5	3	10	5	3	3.9	10.4
20-Mar-08	4	4	4	4	4	3	4	13	9	11	6	10	3	7	6	4	5	2	6	9	4	4	4	5	5.6	13.5
21-Mar-08	5	4	4	10	8	7	6	7	10	17	11	9	10	9	6	6	6	17	14	13	8	8	5	6	8.6	17.3
22-Mar-08	4	4	3	3	4	4	5	6	7	7	8	6	5	4	3	6	3	4	3	4	1	1	2	4	4.2	8.0
23-Mar-08	2	3	5	5	4	6	5	7	7	4	9	8	11	11	11	10	23	6	1	2	1	1	2	1	6.1	22.7
24-Mar-08	1	4	5	3	2	4	4	4	6	5	6	5	7	7	8	5	6	4	5	5	4	2	2	3	4.4	8.1
25-Mar-08	3	3	2	2	2	3	3	3	5	6	4	2	1	3	3	6	4	4	8	5	10	5	3	4	3.9	9.5
26-Mar-08	6	4	2	3	4	6	7	8	5	4	P	4	4	6	4	4	5	5	4	4	5	4	4	4	4.5	7.8
27-Mar-08	5	4	5	4	4	5	7	14	12	6	6	6	6	6	8	8	9	5	5	5	6	5	5	5	6.4	13.9
28-Mar-08	5	7	8	7	6	4	4	4	5	5	5	4	5	6	6	6	5	6	6	7	7	6	5	5	5.6	7.5
29-Mar-08	5	5	5	4	5	5	4	5	6	5	6	7	5	5	5	6	6	5	4	7	7	6	4	4	5.2	7.1
30-Mar-08	4	5	5	4	6	4	7	11	10	7	5	6	6	7	7	10	10	7	6	4	3	4	12	12	6.7	12.4
31-Mar-08	11	8	8	6	7	5	9	17	7	8	9	7	7	7	16	4	4	5	5	5	4	3	4	4	7.1	16.9
Hourly Avg	4.6	4.4	3.8	3.7	3.9	4.1	4.6	5.8	5.5	5.8	5.8	5.4	5.0	5.0	5.1	5.2	5.4	5.2	4.8	4.9	4.1	4.0	3.9	3.7		
Hourly Max	20.2	15.1	8.0	10.0	7.7	10.3	10.3	16.9	12.0	16.7	11.5	9.8	11.0	11.4	15.8	10.8	22.7	17.3	13.5	12.5	9.5	10.4	12.4	12.2		

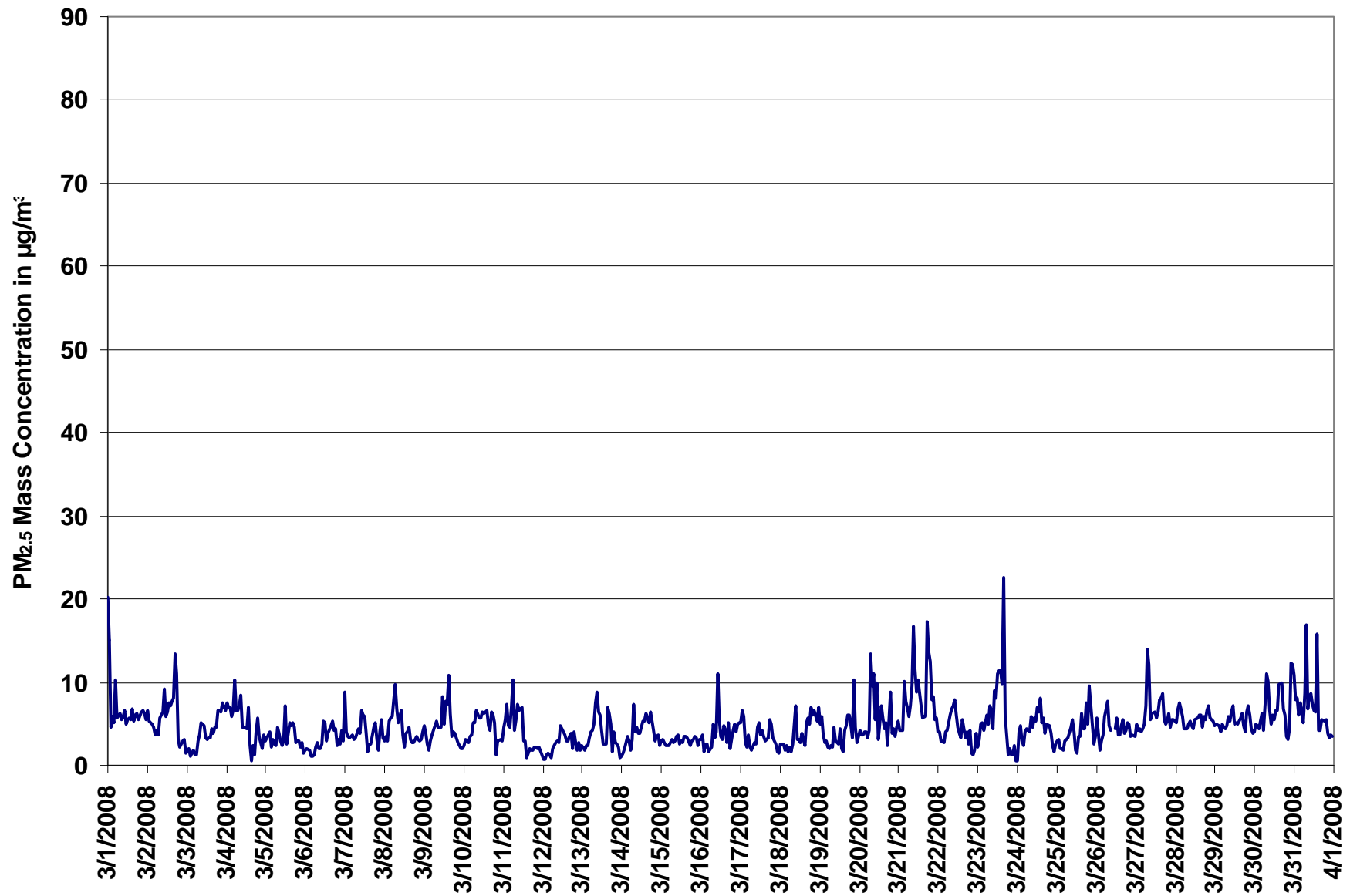
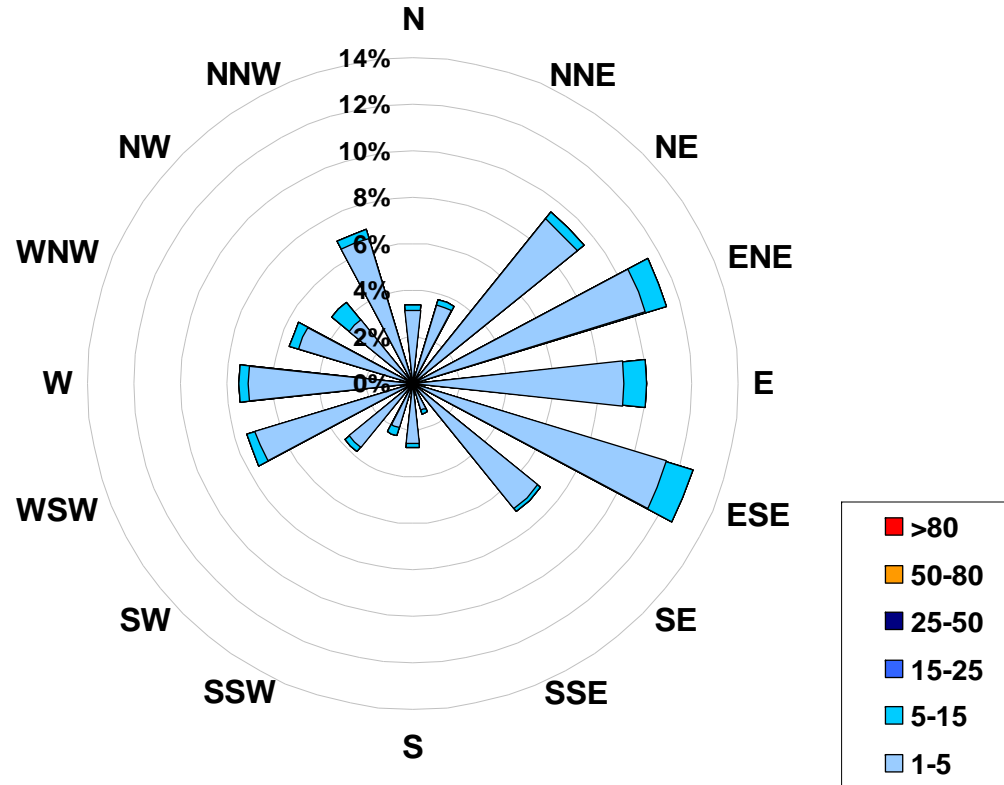


Figure 43. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Beaverlodge Site for March 2008



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			Frequency (hrs)
Range			
1.0	< 5		703
5	to 15		39
15	to 25		0
25	to 50		0
50	to 80		0
	> 80		0
Total Non-Zero Values			742

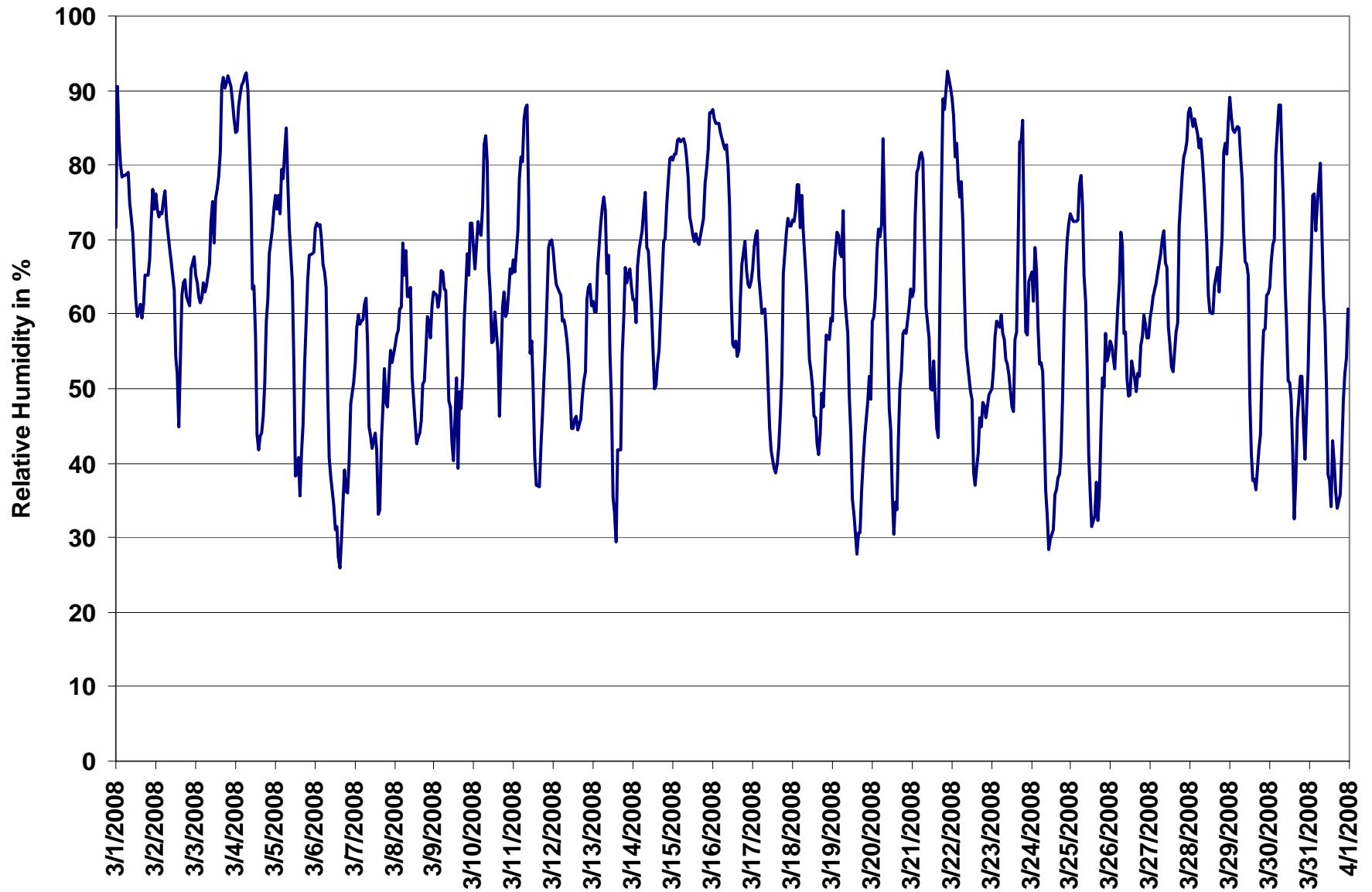


Figure 44. PASZA - Beaverlodge Relative Humidity 1-hr Average Monthly Trend

PASZA - Beaverlodge Temperature Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

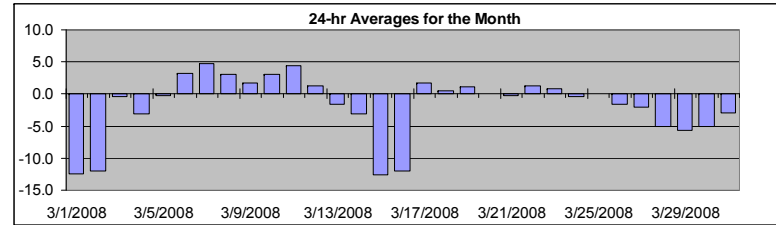
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	11.0	°C	7-Mar	15:00 16:00
Maximum 24-hr Value:	4.7	°C	7-Mar	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	8.7	6.5	2.5	-1.0	-4.8	-14.2	-19.8	-1.7 °C	-1.0 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	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-Mar-08	2	-1	-5	-7	-9	-10	-12	-13	-14	-14	-14	-14	-14	-14	-14	-14	-14	-14	-15	-16	-17	-17	-18	-18	-18	-12.5	1.9
2-Mar-08	-19	-19	-20	-21	-21	-21	-21	-21	-20	-18	-17	-15	-13	-11	-8	-9	-9	-5	-2	0	0	0	0	0	0	-12.0	0.4
3-Mar-08	0	0	0	0	0	0	0	0	0	0	1	3	2	3	3	2	1	-1	-2	-3	-3	-3	-5	-6	-0.4	2.9	
4-Mar-08	-6	-7	-8	-8	-9	-8	-10	-9	-7	-5	-2	-2	1	5	5	4	4	3	1	-1	-2	-3	-5	-5	-3.1	5.4	
5-Mar-08	-6	-5	-5	-4	-5	-4	-5	-6	-4	-3	-1	2	7	7	6	9	6	5	3	2	0	-1	-1	-1	-0.2	8.6	
6-Mar-08	-2	-3	-3	-3	-3	-2	-3	-3	1	3	4	6	8	9	11	10	8	7	6	6	6	5	5	5	3.2	10.8	
7-Mar-08	4	3	2	2	1	1	1	0	2	5	6	8	8	8	11	11	9	7	5	5	5	4	3	3	4.7	11.0	
8-Mar-08	3	2	2	1	2	0	2	2	3	2	4	6	6	7	7	6	6	5	4	3	2	1	1	-1	3.1	6.6	
9-Mar-08	-1	-2	-2	-2	-3	-3	-3	-3	-1	1	2	5	6	4	7	5	7	6	5	4	3	3	2	1	1.8	7.5	
10-Mar-08	2	3	1	1	1	0	-2	-2	-2	2	3	5	5	5	6	8	6	4	4	4	4	4	4	4	3.0	8.1	
11-Mar-08	4	4	3	2	2	2	1	0	0	2	8	7	8	9	9	9	7	6	5	5	4	3	2	2	4.4	9.1	
12-Mar-08	2	2	2	2	2	1	1	0	1	1	2	3	3	3	3	4	3	2	2	1	-1	-2	-2	-3	1.2	3.7	
13-Mar-08	-3	-3	-3	-5	-6	-7	-7	-7	-5	-4	-1	2	3	6	6	7	3	4	0	-1	-2	-2	-3	-3	-1.6	6.8	
14-Mar-08	-4	-4	-4	-5	-5	-6	-6	-7	-5	-5	-3	-2	0	2	2	1	1	-1	-2	-3	-4	-5	-6	-6	-3.1	1.9	
15-Mar-08	-7	-8	-9	-10	-11	-11	-12	-13	-13	-13	-13	-13	-13	-13	-13	-12	-12	-13	-14	-14	-15	-16	-16	-16	-17	-12.5	-6.8
16-Mar-08	-17	-18	-18	-18	-19	-20	-22	-20	-17	-17	-11	-11	-10	-9	-8	-6	-5	-5	-6	-7	-6	-5	-5	-5	-11.9	-4.7	
17-Mar-08	-5	-3	0	0	0	1	1	1	2	3	4	4	5	5	6	6	5	4	3	1	0	0	-1	-1	1.7	5.5	
18-Mar-08	-2	-2	-2	-3	-3	-2	-4	-3	-1	1	2	3	3	4	4	4	4	3	2	2	0	0	0	-1	0.4	4.3	
19-Mar-08	-1	-2	-2	-3	-2	-3	-3	-4	-1	0	2	4	5	5	6	6	6	5	3	2	1	0	0	0	1.1	6.4	
20-Mar-08	-2	-2	-3	-4	-5	-5	-5	-8	-5	-2	2	4	7	9	8	8	4	2	1	0	0	0	-1	-1	0.1	9.2	
21-Mar-08	-1	-2	-4	-5	-6	-6	-6	-6	-3	0	2	4	5	4	5	7	6	3	1	0	0	0	-1	-1	-0.2	6.5	
22-Mar-08	-3	-3	-3	-4	-4	-4	-5	-3	-1	1	2	5	5	7	7	7	6	5	4	3	3	2	1	1	1.2	7.3	
23-Mar-08	0	0	-1	-1	0	-1	-1	0	0	1	2	3	5	6	4	4	3	0	0	-1	-1	-1	-2	-4	0.8	6.5	
24-Mar-08	-4	-4	-5	-6	-5	-5	-4	-3	0	2	3	4	4	4	4	4	3	3	2	0	-1	-2	-3	-3	-0.4	4.5	
25-Mar-08	-3	-3	-3	-4	-4	-5	-5	-4	-1	0	2	3	4	6	5	4	6	4	2	1	1	-1	-1	-2	0.0	5.6	
26-Mar-08	-3	-3	-3	-4	-4	-5	-6	-6	-3	-2	0	1	1	1	2	2	1	0	0	-1	-1	-2	-2	-2	-1.6	1.9	
27-Mar-08	-3	-3	-3	-4	-4	-4	-4	-4	-4	-3	2	-1	0	1	2	1	1	0	-1	-2	-3	-3	-4	-4	-2.1	1.9	
28-Mar-08	-5	-5	-5	-5	-6	-7	-7	-7	-7	-6	-5	-4	-3	-3	-3	-3	-4	-4	-4	-5	-5	-5	-6	-6	-5.0	-3.0	
29-Mar-08	-7	-7	-7	-8	-9	-10	-10	-9	-7	-6	-6	-5	-3	-2	-1	-1	-1	-3	-4	-5	-6	-7	-8	-8	-5.7	-0.8	
30-Mar-08	-8	-9	-9	-9	-11	-13	-13	-11	-9	-6	-5	-2	-1	0	1	2	1	0	-2	-3	-3	-4	-4	-5	-5.1	1.8	
31-Mar-08	-6	-7	-9	-9	-9	-9	-8	-6	-4	-1	2	4	4	4	3	3	2	2	2	-1	-2	-3	-4	-5	-2.9	4.3	
Hourly Avg	-3.2	-3.6	-4.0	-4.6	-4.9	-5.4	-5.8	-5.6	-4.1	-2.7	-1.0	0.5	1.7	2.4	2.8	2.7	2.0	0.9	0.1	-0.9	-1.5	-2.0	-2.5	-3.0			
Hourly Max	4.1	4.3	3.4	2.3	1.8	1.7	2.3	1.6	2.9	5.5	7.7	7.6	8.2	9.2	10.9	11.0	8.6	6.7	6.0	5.9	5.6	5.1	4.8	4.5			

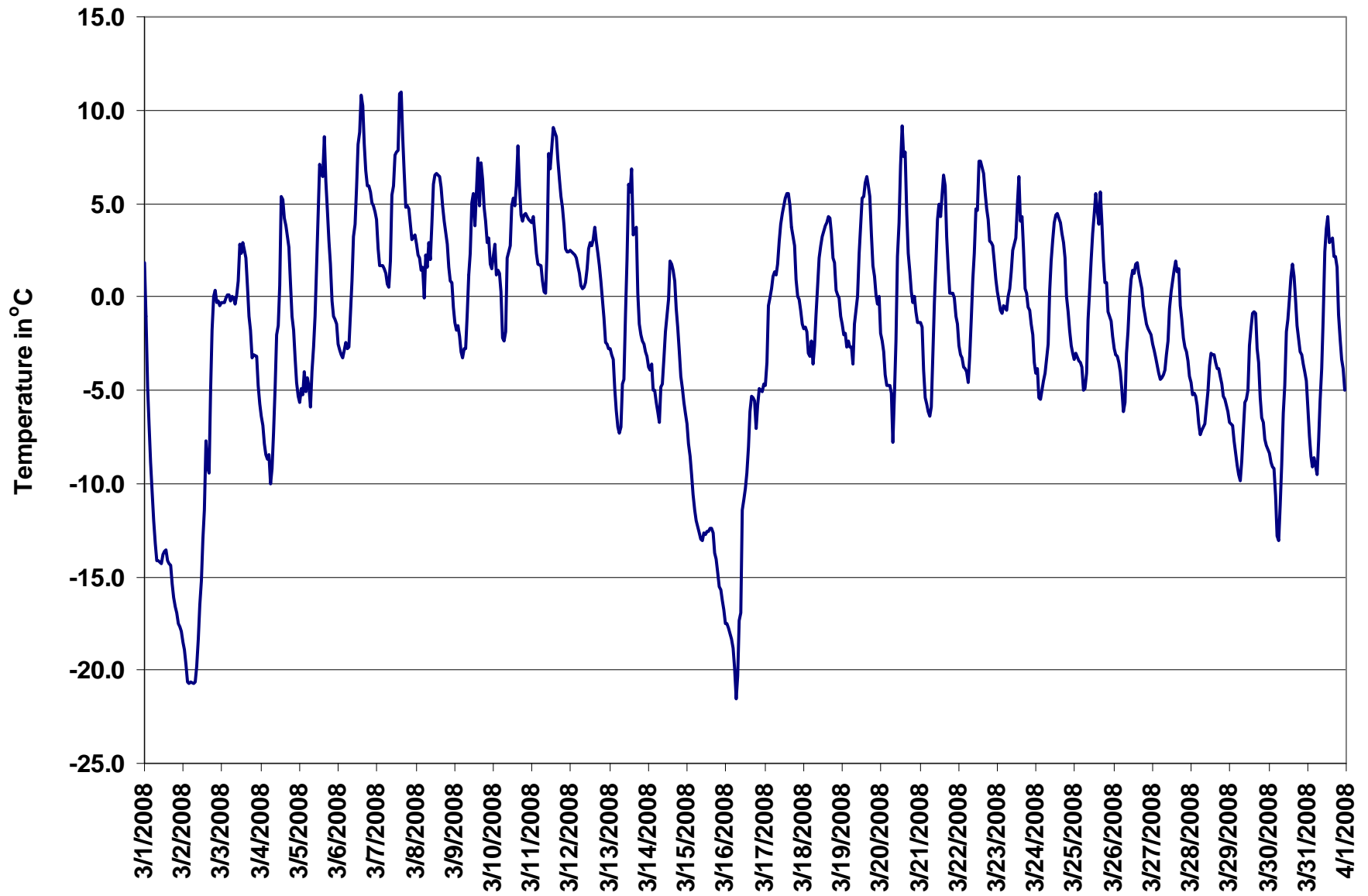


Figure 45. PASZA - Beaverlodge Temperature 1-hr Average Monthly Trend

PASZA - Beaverlodge Scalar Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

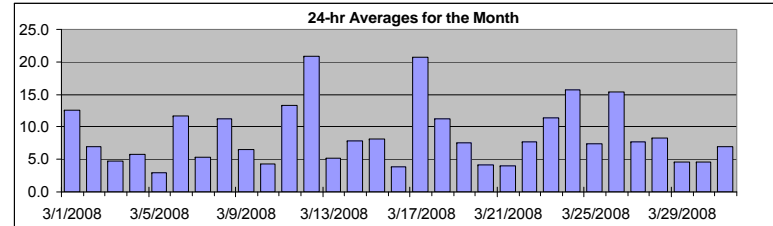
Wind Speed (WSs)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	31.5	km/hr	17-Mar	12:00 13:00
Maximum 24-hr Value:	20.9	km/hr	12-Mar	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	29.5	25.9	10.8	6.4	3.5	1.9	1.2	8.7 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Mar-08	10	21	16	19	18	14	16	14	10	10	12	12	15	14	13	13	13	11	10	9	7	9	9	9	12.6	21.0
2-Mar-08	9	8	4	5	5	5	6	5	4	7	6	6	3	4	1	2	3	7	15	21	20	12	8	3	7.0	21.3
3-Mar-08	1	1	1	1	2	5	4	3	4	5	4	3	4	1	2	2	5	10	13	11	6	7	9	9	4.8	13.2
4-Mar-08	8	7	4	4	3	5	2	4	3	2	2	3	3	3	10	15	14	13	8	10	5	3	3	4	5.7	15.3
5-Mar-08	4	5	4	4	3	3	2	2	3	3	2	2	2	1	3	1	2	2	5	4	3	4	4	4	3.0	5.5
6-Mar-08	3	3	4	3	3	3	2	4	2	2	3	3	14	19	14	27	23	19	14	14	25	24	27	24	11.6	27.4
7-Mar-08	10	9	12	12	9	9	6	6	4	2	2	3	4	5	3	3	5	4	4	3	3	3	3	2	5.4	12.3
8-Mar-08	0	1	1	2	3	2	5	4	5	5	10	17	20	26	26	26	26	23	21	15	11	6	7	5	11.2	26.2
9-Mar-08	2	3	3	5	2	4	2	3	2	3	2	2	2	5	2	4	16	22	21	18	9	8	5	9	6.5	22.4
10-Mar-08	8	6	3	5	4	3	3	3	5	3	2	3	2	3	3	1	2	6	5	5	7	9	7	8	4.3	8.9
11-Mar-08	7	7	3	6	5	4	9	6	3	3	3	8	14	15	22	30	28	29	26	24	18	17	18	17	13.4	29.8
12-Mar-08	20	19	22	27	28	30	28	28	27	29	25	26	22	26	24	21	19	14	13	16	12	6	8	9	20.9	29.7
13-Mar-08	9	4	5	4	3	2	3	2	4	4	3	2	1	2	2	4	3	7	8	8	9	11	12	11	5.2	12.2
14-Mar-08	10	9	7	3	5	8	7	6	7	9	9	9	9	7	6	7	6	8	9	11	10	10	10	10	7.8	10.8
15-Mar-08	10	9	9	11	11	11	10	10	10	10	9	9	9	9	9	9	10	10	6	6	2	1	2	2	8.1	11.2
16-Mar-08	1	3	2	3	4	3	4	3	2	3	2	3	5	6	9	7	5	4	8	5	4	1	2	2	3.8	9.3
17-Mar-08	2	5	20	23	24	29	24	20	19	23	30	31	32	31	29	29	28	26	20	17	12	12	7	4	20.8	31.5
18-Mar-08	5	6	7	7	5	9	9	10	8	14	18	18	18	20	19	21	18	15	10	8	10	4	5	4	11.2	21.3
19-Mar-08	5	6	6	9	4	5	8	6	4	7	11	17	17	16	15	13	7	6	4	2	4	3	2	2	7.5	17.3
20-Mar-08	2	2	2	3	2	3	4	3	3	3	2	4	3	2	4	3	5	7	7	6	8	10	8	5	4.1	9.7
21-Mar-08	3	3	4	3	5	4	3	2	3	1	2	3	4	7	7	5	5	6	5	4	6	5	2	3	4.0	7.4
22-Mar-08	2	1	1	3	3	3	3	2	2	2	2	3	5	5	8	11	14	13	15	16	19	18	16	16	7.6	19.2
23-Mar-08	14	15	15	14	15	13	15	13	10	11	12	8	5	4	11	10	17	16	8	5	12	15	11	9	11.5	17.2
24-Mar-08	6	5	5	3	3	9	11	13	15	23	24	27	27	27	29	28	28	21	16	12	14	13	10	8	15.8	29.0
25-Mar-08	7	8	8	8	9	4	6	2	6	10	13	14	10	9	8	12	8	8	5	3	3	3	6	7	7.4	14.2
26-Mar-08	7	7	5	6	4	3	4	4	7	9	9	9	10	20	23	26	24	30	29	30	28	26	25	22	15.4	30.4
27-Mar-08	19	18	16	13	11	7	3	6	7	8	7	5	3	4	6	8	6	9	4	6	6	6	6	3	7.7	19.1
28-Mar-08	7	8	6	6	8	8	6	11	12	12	11	11	11	11	9	10	11	8	9	7	6	5	5	4	8.3	11.8
29-Mar-08	4	3	6	9	6	6	5	5	5	3	6	5	4	4	4	4	3	4	2	3	5	5	5	5	4.6	8.8
30-Mar-08	5	4	4	3	2	1	0	2	2	2	4	4	7	7	7	6	8	10	7	7	7	4	4	3	4.5	9.5
31-Mar-08	4	9	5	3	8	6	7	4	10	8	6	4	3	4	7	4	9	10	10	11	12	11	9	3	7.0	12.1
1-hr Average	6.6	6.9	6.8	7.3	6.9	7.1	7.0	6.7	6.7	7.6	8.1	8.8	9.2	10.3	10.8	11.8	11.9	12.2	10.8	10.3	9.9	8.7	8.2	7.2		
Hourly Max	19.8	21.0	22.2	26.9	28.5	29.7	28.0	27.6	27.4	28.9	30.1	31.1	31.5	31.3	29.0	29.8	27.7	30.4	29.4	29.6	28.1	26.4	27.4	24.5		

PASZA - Beaverlodge Vector Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

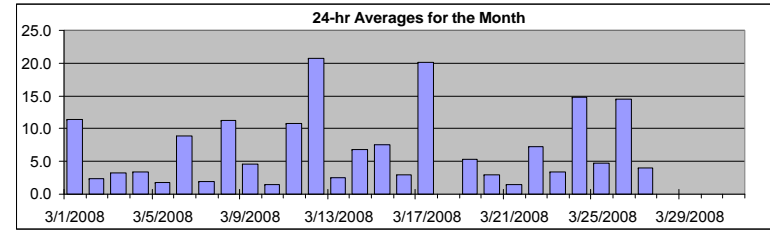
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	31.5	km/hr	17-Mar	12:00 13:00
Maximum 24-hr Value:	20.6	km/hr	12-Mar	



Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	29.4	25.8	10.7	6.0	2.8	1.2	0.0	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 Vector Average	Daily Max
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
1-Mar-08	5	20	16	18	17	14	16	14	10	9	11	12	15	13	13	13	12	10	10	9	7	9	9	8	11.4	19.6
2-Mar-08	9	7	4	5	4	5	6	4	4	7	6	6	2	3	1	2	3	6	14	21	20	12	8	2	2.3	21.2
3-Mar-08	1	1	1	1	1	5	4	3	4	4	4	3	4	1	2	1	3	10	13	11	6	7	9	9	3.3	13.2
4-Mar-08	8	7	3	4	3	4	1	4	3	2	2	3	3	1	9	15	14	13	8	10	5	3	2	4	3.5	15.2
5-Mar-08	4	5	3	4	3	3	2	2	3	1	2	2	2	1	3	1	2	0	2	5	1	3	4	3	1.8	5.2
6-Mar-08	3	3	3	3	3	3	2	4	2	2	2	2	14	19	13	27	23	19	14	14	25	24	27	24	8.9	27.3
7-Mar-08	10	9	12	12	9	9	6	6	4	2	2	3	4	5	3	3	5	4	3	3	2	3	1	1	1.9	12.3
8-Mar-08	0	1	1	2	1	1	5	4	4	5	10	17	20	26	26	26	26	23	21	15	11	6	7	4	11.2	26.2
9-Mar-08	2	3	2	3	2	2	2	3	2	2	2	2	1	4	2	3	16	22	21	18	9	8	5	9	4.6	22.3
10-Mar-08	8	6	2	4	4	2	2	4	1	2	2	2	2	2	2	0	2	5	4	3	7	9	7	8	1.4	8.9
11-Mar-08	5	7	2	5	2	3	9	1	1	2	2	8	14	15	22	30	27	29	25	24	18	17	18	17	10.8	29.6
12-Mar-08	20	19	22	27	28	30	28	28	27	29	25	26	22	26	24	21	19	14	13	16	12	6	8	9	20.6	29.7
13-Mar-08	9	4	4	2	3	2	2	1	2	3	2	2	1	1	2	4	2	7	8	8	9	11	12	10	2.5	12.1
14-Mar-08	9	8	5	1	4	8	7	6	7	8	9	9	7	6	7	7	6	8	9	10	10	10	10	9	6.8	10.2
15-Mar-08	9	9	9	11	11	11	10	9	10	10	9	9	9	9	9	9	10	10	6	6	2	1	2	1	7.5	11.1
16-Mar-08	1	3	2	3	4	3	4	3	2	3	1	3	5	6	9	7	5	4	4	4	4	0	1	1	3.0	9.3
17-Mar-08	1	4	20	23	24	29	24	20	19	23	30	31	31	31	29	29	28	26	20	17	12	12	7	3	20.1	31.5
18-Mar-08	5	6	7	6	5	8	9	10	7	14	18	18	18	20	19	21	18	15	10	8	10	3	5	3	-	21.0
19-Mar-08	4	5	5	9	3	3	8	6	3	6	10	17	17	16	15	13	7	6	2	2	4	2	2	2	5.4	17.2
20-Mar-08	1	2	1	2	2	0	3	1	1	3	2	3	2	2	4	3	5	7	7	6	8	9	8	2	2.9	9.3
21-Mar-08	1	3	4	2	3	2	3	1	2	0	2	2	4	7	7	5	5	4	3	2	0	5	0	3	1.4	7.4
22-Mar-08	0	0	1	3	3	3	3	2	2	2	1	3	5	4	8	11	14	13	15	16	19	18	16	16	7.3	19.1
23-Mar-08	14	15	15	14	15	12	15	13	8	11	12	7	3	4	11	10	16	15	7	5	12	15	10	9	3.5	16.1
24-Mar-08	5	3	5	2	3	9	11	13	15	23	24	27	27	27	29	28	27	21	16	12	14	13	10	7	14.8	28.8
25-Mar-08	7	8	8	8	9	4	6	1	5	10	12	14	9	8	7	11	7	8	5	1	2	2	6	7	4.8	14.0
26-Mar-08	7	7	4	5	4	3	3	4	7	8	8	8	10	20	23	26	24	30	29	29	28	26	25	22	14.5	30.3
27-Mar-08	19	18	16	13	11	7	2	4	7	7	7	4	1	4	6	8	6	8	4	6	6	6	5	2	4.0	19.0
28-Mar-08	6	8	6	6	8	8	6	11	12	12	11	11	10	10	8	10	10	8	9	7	6	5	5	4	N	11.6
29-Mar-08	4	2	6	9	5	6	5	5	4	2	5	3	4	4	3	3	2	4	2	3	4	5	5	5	N	8.7
30-Mar-08	5	4	4	3	1	1	0	1	2	2	3	4	6	7	7	6	8	9	7	6	7	3	1	1	N	9.4
31-Mar-08	3	7	3	1	8	4	6	3	10	8	5	3	2	4	4	4	7	9	9	11	12	11	9	3	N	12.0
1-hr Vector	0.5	0.9	1.1	1.5	1.7	1.9	2.0	1.6	2.3	2.5	3.1	3.7	3.8	3.7	3.7	4.2	4.9	3.7	2.3	2.4	1.6	1.5	1.3	0.7		
Hourly Max	19.7	19.6	22.2	26.9	28.4	29.7	28.0	27.6	27.3	28.8	30.0	31.1	31.5	31.3	28.9	29.6	27.6	30.3	29.3	29.5	28.0	26.2	27.3	24.3		

PASZA - Beaverlodge Standard Deviation of Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	84.7	72.8	32.6	13.8	6.9	3.6	2.8

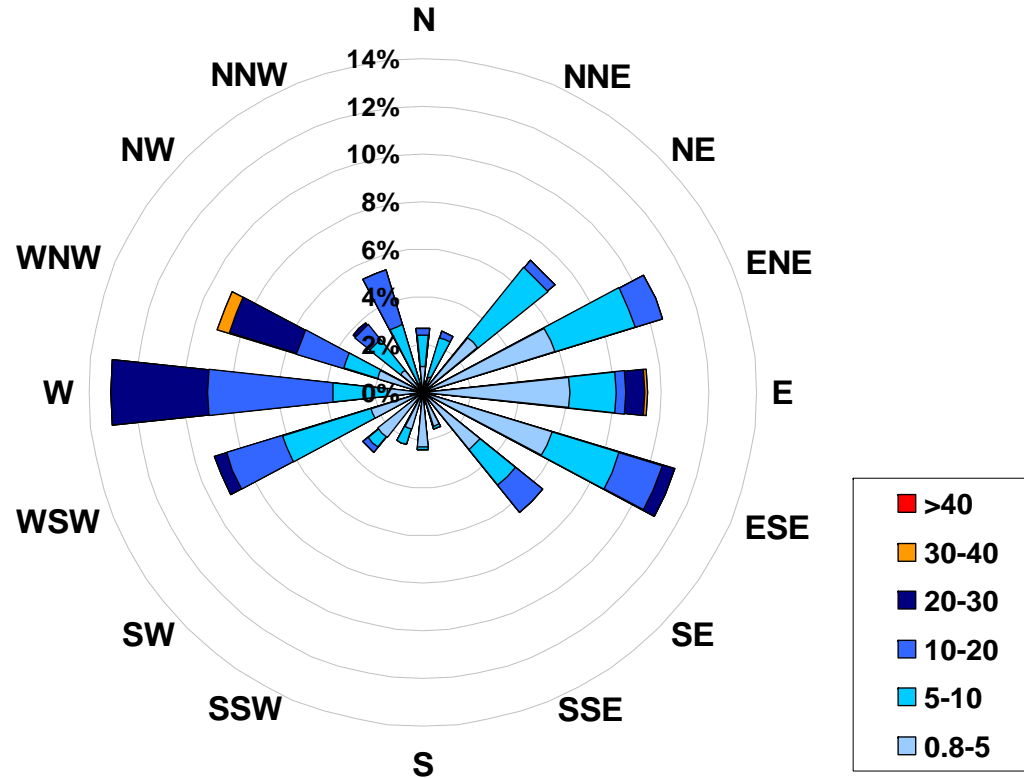
Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Mar-08	66	24	8	6	5	10	7	12	13	14	11	14	12	14	14	10	18	11	6	15	13	11	14	17	66.2	
2-Mar-08	13	14	21	8	14	10	5	15	24	10	12	12	33	25	33	29	11	59	20	2	4	6	9	31	59.3	
3-Mar-08	23	59	24	32	38	10	15	35	51	70	25	11	19	14	12	80	48	3	4	5	15	12	8	6	79.8	
4-Mar-08	7	9	26	18	17	21	84	8	6	40	35	7	20	89	17	4	4	4	17	8	17	20	53	9	88.5	
5-Mar-08	11	24	81	29	7	7	24	22	13	69	27	25	24	68	21	42	40	86	13	24	71	11	10	13	85.9	
6-Mar-08	14	15	12	12	15	12	20	18	84	29	24	50	15	5	13	6	3	5	6	6	5	5	4	7	84.3	
7-Mar-08	12	7	3	9	6	5	12	12	18	32	40	22	22	22	25	16	12	25	34	25	18	34	82	43	82.3	
8-Mar-08	60	41	75	50	87	93	27	18	50	13	5	7	5	3	3	3	2	5	8	3	8	29	13	26	93.4	
9-Mar-08	43	31	46	64	32	55	52	36	56	18	25	34	68	34	83	45	7	5	5	6	5	10	21	8	83.3	
10-Mar-08	18	15	32	36	55	53	38	52	49	82	45	50	48	47	38	51	82	26	48	76	11	6	10	24	82.4	
11-Mar-08	46	20	38	39	73	62	11	89	60	44	42	11	6	11	7	5	5	3	3	3	5	4	3	3	88.6	
12-Mar-08	3	4	4	4	3	3	3	4	5	5	4	5	6	4	6	5	4	4	6	11	3	8	6	4	10.7	
13-Mar-08	7	10	24	78	13	43	47	83	68	48	67	13	30	48	19	18	18	14	9	4	6	9	3	12	83.2	
14-Mar-08	9	19	34	76	25	7	9	17	18	16	5	5	10	15	9	9	17	7	7	22	14	14	12	12	76.3	
15-Mar-08	17	6	5	4	6	5	5	4	5	6	5	6	5	6	5	6	8	6	5	7	6	6	26	44	45	44.8
16-Mar-08	56	8	8	7	8	6	10	16	22	13	55	30	12	8	7	16	12	50	73	47	20	69	65	23	72.8	
17-Mar-08	68	66	11	5	8	4	3	6	4	4	4	3	3	4	4	5	4	5	8	5	6	11	16	30	68.5	
18-Mar-08	10	16	15	15	32	16	15	15	26	5	9	6	6	4	6	10	4	5	22	6	6	59	36	34	59.2	
19-Mar-08	27	21	24	36	70	74	34	19	54	18	33	7	8	10	8	16	16	28	60	40	29	72	45	54	74.2	
20-Mar-08	72	48	65	57	57	89	52	83	76	46	28	24	31	18	10	24	21	9	14	13	7	18	9	77	88.6	
21-Mar-08	67	39	12	52	68	58	55	63	70	63	31	19	13	6	7	13	11	57	60	73	92	32	85	25	91.7	
22-Mar-08	82	80	63	29	14	30	25	19	33	36	52	13	6	11	7	3	3	4	3	5	3	4	3	3	82.1	
23-Mar-08	3	3	4	4	8	8	5	5	32	14	6	13	57	41	13	13	41	9	13	23	13	7	25	12	57.2	
24-Mar-08	74	77	15	53	45	15	10	7	9	4	4	7	6	8	7	9	7	8	5	10	4	4	8	8	76.6	
25-Mar-08	9	7	6	11	9	26	16	73	14	9	28	11	14	22	24	28	31	10	27	81	63	70	13	10	80.9	
26-Mar-08	8	5	12	35	28	36	60	32	9	30	16	20	10	5	5	5	5	5	5	5	5	5	5	6	59.9	
27-Mar-08	6	7	5	5	7	19	53	47	8	11	11	36	75	29	20	10	19	14	20	11	14	10	64	83	82.9	
28-Mar-08	15	7	12	10	15	14	7	6	8	8	10	17	16	27	25	14	11	16	11	11	8	13	11	13	27.4	
29-Mar-08	5	22	9	5	18	6	8	10	51	52	22	53	31	30	68	72	64	40	9	9	25	8	8	9	71.5	
30-Mar-08	7	5	6	10	69	29	74	37	32	9	23	23	11	11	10	11	5	10	11	11	14	47	76	58	76.5	
31-Mar-08	58	40	53	75	29	77	52	53	5	14	25	52	63	36	84	42	33	23	26	3	3	2	8	28	84.1	
Hourly Max	82	80	81	78	87	93	84	89	84	82	67	53	75	89	84	80	82	86	73	81	92	72	85	83		

1-hr Average Wind Rose (in km/hr) Located at the Beaverlodge Site for March 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	304
5	to	10	226
10	to	20	142
20	to	30	67
30	to	40	5
	>	40	0
Total Non-Zero Values			744

PASZA

Porteble – Spirit River Station Monthly Summary Tables, Graphs and Roses

PASZA - Portable-Spirit River Sulphur Dioxide Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

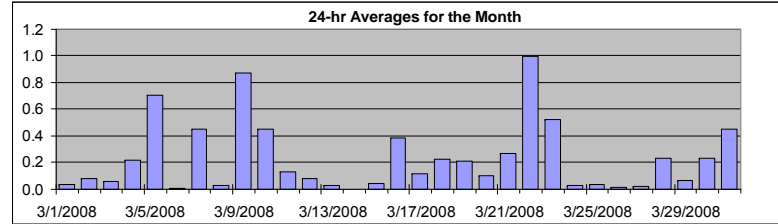
Sulphur Dioxide (SO₂)

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	9.3 ppb	9-Mar	10:00	11:00
Maximum 24-hr Average:	1.0 ppb	22-Mar		



AIC Time:	31 hrs		Operational Time:	710 hrs					
Calibration Time:	3 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	2.0	1.0	0.2	0.0	0.0	0.0	0.0	0.2 ppb	0.0 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.0	0.2		
2-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.1	0.3	
3-Mar-08	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	0.1	0.2	
4-Mar-08	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	A	0	0	0	0	0.2	1.2	
5-Mar-08	1	0	0	0	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0	0	0	0	0.7	1.8	
6-Mar-08	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	0.0	0.1	
7-Mar-08	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	A	1	1	1	1	0	1	1	0.5	1.3	
8-Mar-08	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.0	0.5	
9-Mar-08	0	0	0	0	0	1	2	2	1	1	9	2	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0.9	9.3
10-Mar-08	0	0	0	0	0	0	0	0	0	0	0	1	0	A	0	0	0	0	0	0	4	1	1	1	0	0.5	4.1	
11-Mar-08	0	0	0	0	0	0	0	0	0	0	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0	
12-Mar-08	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
13-Mar-08	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	
14-Mar-08	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
15-Mar-08	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	1.0	
16-Mar-08	0	1	1	1	0	0	0	A	0	1	1	0	2	0	0	1	0	0	0	0	0	0	1	1	0	0.4	1.6	
17-Mar-08	0	0	0	0	0	0	A	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
18-Mar-08	0	0	0	A	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0	
19-Mar-08	0	1	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.2	1.4	
20-Mar-08	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
21-Mar-08	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0.3	1.8	
22-Mar-08	A	1	0	0	2	2	2	1	0	2	4	5	1	1	1	1	0	0	0	0	0	0	0	0	A	1.0	5.3	
23-Mar-08	0	0	0	1	2	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.5	2.8	
24-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.0	0.4	
25-Mar-08	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.0	0.6	
26-Mar-08	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	0.0	0.2	
27-Mar-08	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	0.0	0.2	
28-Mar-08	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9	
29-Mar-08	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
30-Mar-08	1	0	A	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8	
31-Mar-08	0	A	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0.4	1.2	
Hourly Avg	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.3	0.2	0.3	0.6	0.5	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2			
Hourly Max	0.8	0.7	0.8	0.6	2.1	2.8	1.8	2.0	1.0	1.8	9.3	5.3	1.6	1.4	1.2	0.9	0.8	1.1	1.1	4.1	1.8	0.9	1.3	1.4				

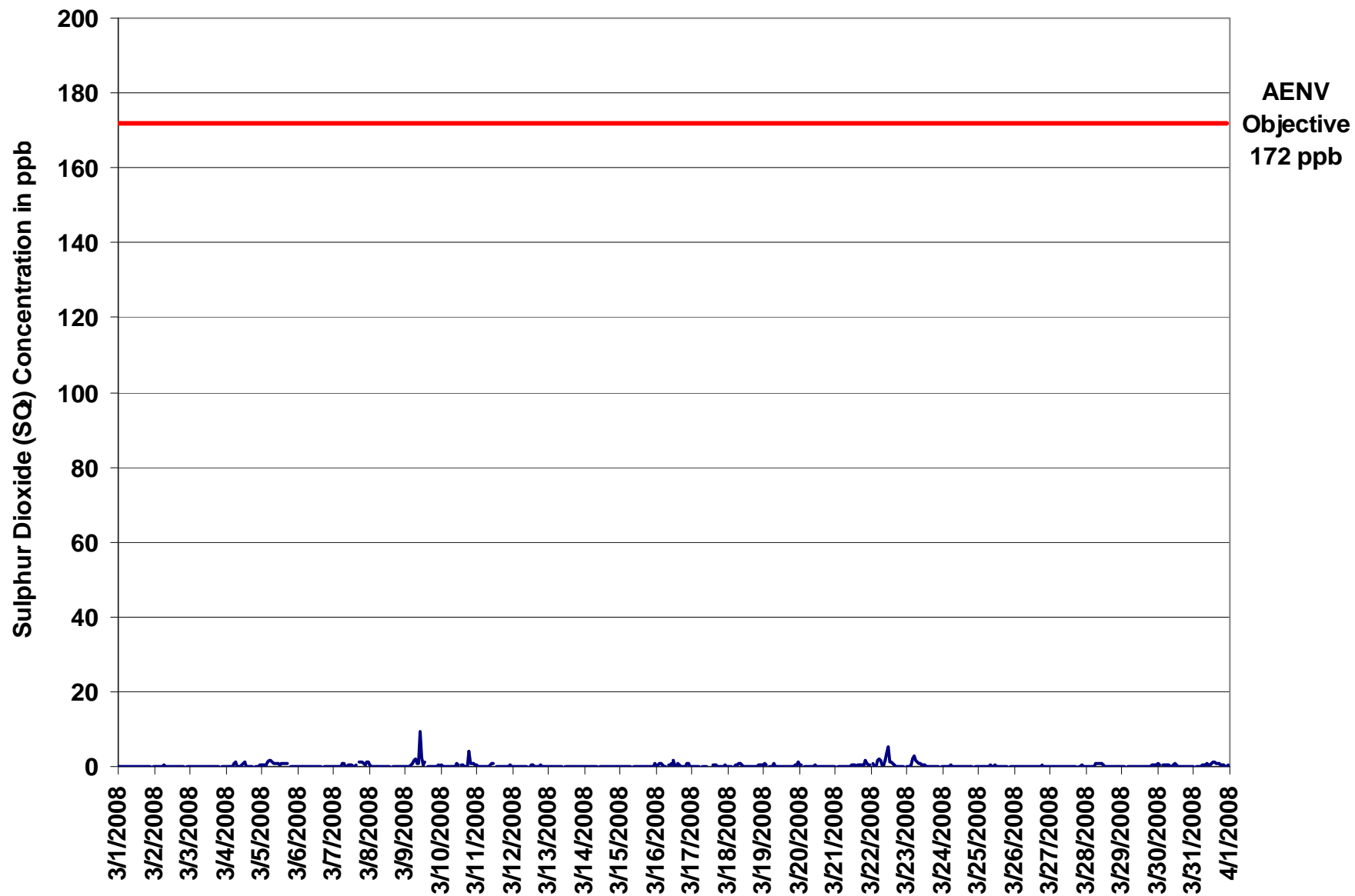


Figure 46. PASZA - Portable-Spirit River Sulphur Dioxide 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

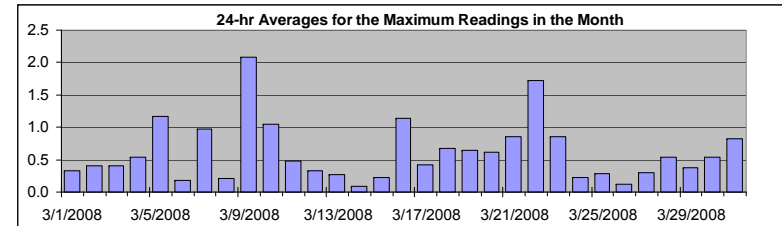
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	13.2	ppb	9-Mar	10:00 11:00
Maximum 24-hr Value:	2.1	ppb	9-Mar	



AIC Time:	31 hrs	Operational Time:	710 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	4.1	2.1	0.7	0.4	0.1	0.0	0.0	0.6 ppb	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 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-Mar-08	1	1	1	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.6
2-Mar-08	0	0	0	0	1	1	1	1	1	0	0	0	1	1	1	0	1	0	0	0	1	A	0	1	0.4	0.8
3-Mar-08	0	1	0	1	0	0	1	1	0	0	0	0	1	1	1	1	1	1	0	0	A	1	1	0	0.4	0.6
4-Mar-08	0	0	0	0	0	0	2	2	1	1	1	1	2	2	1	1	0	0	0	A	1	0	1	1	0.5	1.6
5-Mar-08	1	1	1	2	2	3	2	2	1	1	1	2	1	1	1	1	1	A	1	1	0	0	0	1	1.2	2.5
6-Mar-08	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.2	0.5
7-Mar-08	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	A	3	2	2	1	1	2	2	1.0	3.5
8-Mar-08	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.2	1.1
9-Mar-08	0	0	0	1	1	2	3	4	3	5	13	8	2	3	A	0	0	0	0	0	1	1	1	1	2.1	13.2
10-Mar-08	1	1	0	1	1	1	0	0	0	0	1	1	1	A	1	1	1	1	1	7	2	1	1	1	1.0	7.2
11-Mar-08	1	1	0	0	0	0	0	0	0	1	1	1	A	0	0	0	0	0	1	0	0	1	0	1	0.5	1.3
12-Mar-08	1	0	0	0	0	0	0	0	0	0	0	A	0	1	0	0	0	0	0	1	1	0	0	0	0.3	0.7
13-Mar-08	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
14-Mar-08	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
15-Mar-08	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0.2	1.6
16-Mar-08	1	4	2	1	1	0	0	A	1	3	1	1	2	1	0	2	1	0	0	0	1	1	1	1	1.1	4.2
17-Mar-08	1	1	0	1	0	0	A	0	1	0	0	C	C	C	0	0	0	0	0	0	1	0	1	0	0.4	1.3
18-Mar-08	0	0	0	A	0	1	1	2	2	1	0	0	1	0	0	0	0	0	1	0	1	1	1	1	0.7	2.2
19-Mar-08	1	1	1	A	0	0	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	2	1	3	0.6	2.6
20-Mar-08	2	1	A	0	1	0	0	0	0	0	1	4	1	1	1	1	1	1	1	0	0	0	0	0	0.6	3.6
21-Mar-08	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1	1	1	0.8	7.8
22-Mar-08	A	1	1	0	3	2	3	2	1	3	5	7	3	2	1	1	0	0	0	0	0	0	0	A	1.7	7.0
23-Mar-08	0	0	0	1	3	4	2	2	1	1	1	1	1	1	1	0	0	0	1	1	1	0	A	0	0.9	3.5
24-Mar-08	0	0	0	1	1	1	1	0	1	0	1	0	0	1	0	0	0	0	0	0	0	A	0	0	0.2	1.0
25-Mar-08	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	A	0	0	0	0.3	1.0
26-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.5
27-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	A	1	0	1	1	1	0.3	0.6
28-Mar-08	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.5	1.3
29-Mar-08	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	1	0.4	2.1
30-Mar-08	2	1	A	1	1	1	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.5	1.8
31-Mar-08	0	A	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	2	0.8	2.2
Hourly Avg	0.5	0.5	0.4	0.4	0.6	0.6	0.7	0.8	0.7	0.8	1.1	1.2	0.7	0.6	0.4	0.4	0.3	0.4	0.3	0.6	0.7	0.5	0.6	0.6		
Hourly Max	2.2	4.2	2.3	1.5	3.0	3.5	2.8	3.5	3.1	5.2	13.2	8.2	3.5	2.8	1.5	1.6	1.2	3.5	1.5	7.2	7.8	2.1	2.1	2.6		

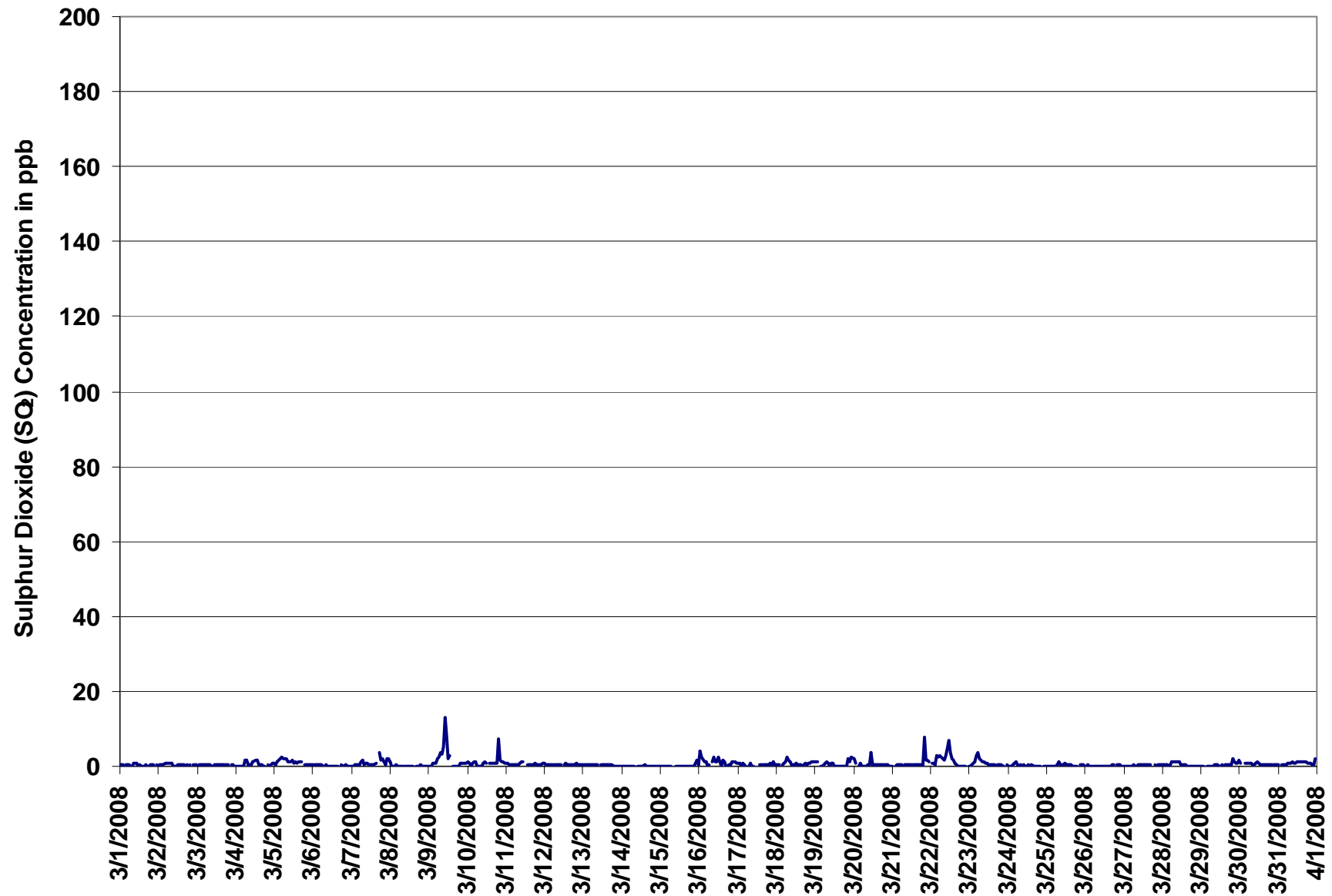
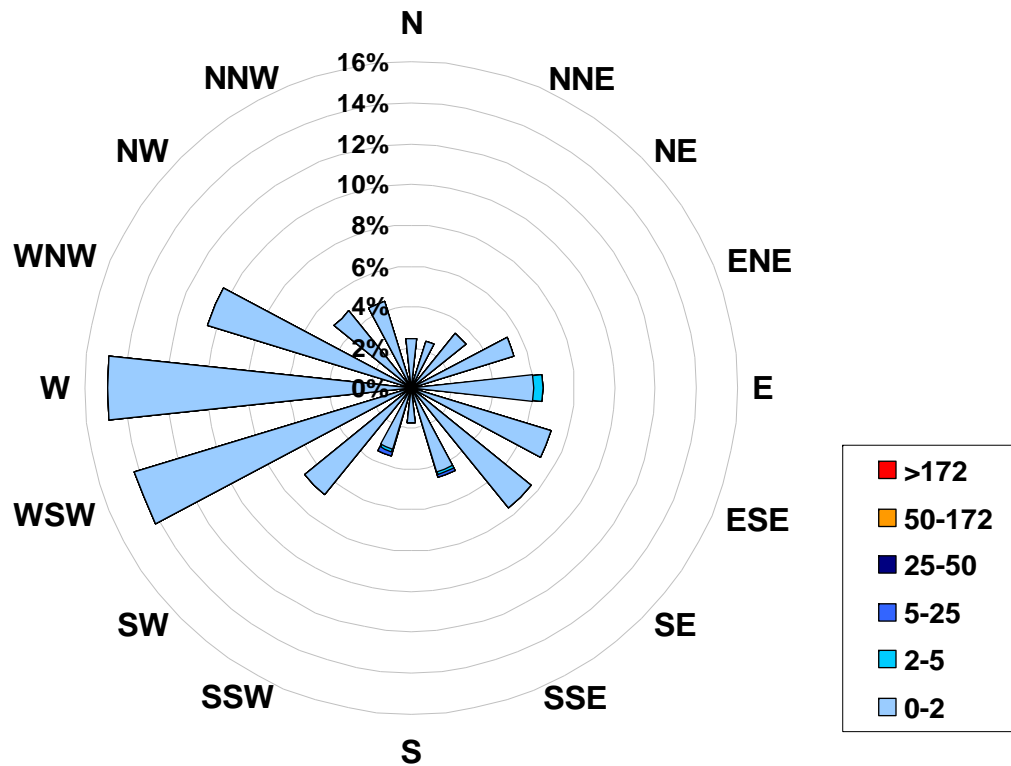


Figure 47. PASZA - Portable-Spirit River Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Portable-Spirit River Site for March 2008



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	< 2		703
2	to 5		5
5	to 25		2
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			710

PASZA - Portable-Spirit River Nitrogen Dioxide Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

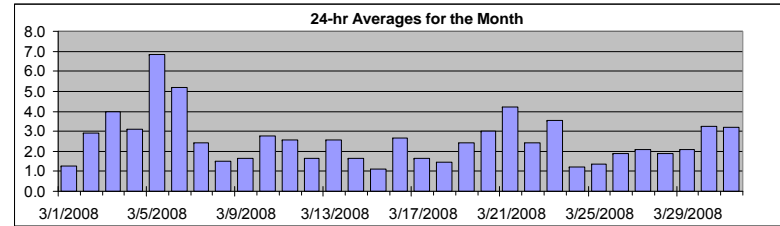
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Summary			
Number of 1-hr Exceedances:	0		
Number of 24-hr Exceedances:	0		
Maximum 1-hr Average:	17.8 ppb	5-Mar	22:00 23:00
Maximum 24-hr Average:	6.9 ppb	5-Mar	



AIC Time:	31 hrs		Operational Time:	708 hrs					
Calibration Time:	0 hrs		AMD Operational Uptime:	99.3%					
Percentile	99	95	75	50	25	5	1	Average	Median
	10.5	6.8	3.1	1.9	1.3	0.8	0.5	2.6 ppb	1.9 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-Mar-08	3	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.2	2.8	
2-Mar-08	1	2	2	2	3	6	8	7	6	3	2	1	1	1	1	1	2	2	2	3	3	A	3	3	2.9	8.2	
3-Mar-08	3	2	2	2	3	6	5	6	6	4	2	3	3	4	3	4	4	6	8	7	A	3	2	2	4.0	7.9	
4-Mar-08	2	2	2	2	2	2	3	4	3	4	5	4	3	5	2	2	4	2	A	6	4	4	4	4	3.1	5.8	
5-Mar-08	4	4	3	2	2	2	2	4	7	11	8	5	6	6	5	4	4	12	A	12	11	11	18	15	6.9	17.8	
6-Mar-08	11	9	7	8	9	8	9	9	9	5	5	4	5	5	6	2	2	A	2	2	1	1	1	1	5.2	11.3	
7-Mar-08	1	1	1	1	1	1	1	2	2	2	2	3	4	2	2	3	A	4	3	4	7	4	3	2	2.4	7.2	
8-Mar-08	2	2	1	2	2	1	2	2	2	2	1	1	1	1	1	A	2	1	1	1	1	2	1	2	1.5	2.3	
9-Mar-08	1	1	1	2	2	2	3	3	2	2	2	2	2	2	1	A	2	1	2	1	1	1	1	1	1.6	2.8	
10-Mar-08	1	1	1	1	2	2	2	2	2	2	1	2	1	A	2	2	5	5	6	5	4	5	5	4	2.7	6.1	
11-Mar-08	4	4	3	2	2	5	3	5	4	5	6	5	A	1	1	1	1	1	1	1	1	1	1	1	2.6	5.9	
12-Mar-08	1	2	3	2	3	3	2	1	1	1	1	A	1	1	1	1	1	1	2	2	2	2	1	1	1.6	3.2	
13-Mar-08	2	2	2	2	2	1	1	2	3	1	A	2	2	1	1	1	1	2	2	5	5	7	5	5	2.6	7.3	
14-Mar-08	4	3	2	2	2	2	2	2	1	A	2	1	1	1	1	1	1	2	2	2	1	1	1	1	1.7	3.7	
15-Mar-08	1	1	1	1	0	1	0	0	A	1	1	1	1	0	0	1	1	1	1	1	2	2	3	6	1.1	6.3	
16-Mar-08	4	4	3	3	3	2	2	A	3	3	2	2	1	1	2	2	2	3	3	3	3	3	3	3	2.7	3.9	
17-Mar-08	3	2	2	1	1	1	A	1	4	1	1						3	2	1	2	2	1	1	1	1.6	4.0	
18-Mar-08	1	1	1	A	2	2	2	2	1	1	1	1	1	1	2	1	1	1	1	1	2	2	2	3	1.5	3.3	
19-Mar-08	2	1	1	A	1	1	1	2	1	1	1	10	1	1	1	1	1	3	4	6	6	3	3	2	2.4	10.2	
20-Mar-08	2	4	A	3	3	2	2	3	6	2	2	1	2	2	2	2	2	2	2	2	5	4	7	5	3.0	6.9	
21-Mar-08	5	A	6	10	10	9	8	5	4	3	2	2	2	2	2	2	2	2	3	3	4	3	3	4	4.2	10.3	
22-Mar-08	A	5	3	2	2	3	2	3	2	3	2	2	1	2	3	2	2	2	2	2	2	3	4	A	2.4	4.5	
23-Mar-08	2	2	2	2	6	8	6	5	5	4	4	4	3	2	2	2	2	2	3	4	3	4	A	2	3.5	7.9	
24-Mar-08	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	A	1	1	1.2	2.3
25-Mar-08	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	A	3	2	2	1.3	2.9	
26-Mar-08	4	3	3	3	3	3	3	2	2	2	2	1	1	1	1	1	1	1	1	2	A	2	2	1	1.9	3.5	
27-Mar-08	1	1	1	1	1	1	8	2	2	1	1	1	1	2	2	2	2	2	A	3	3	3	3	2	2.1	8.0	
28-Mar-08	2	4	4	2	2	2	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	4	1.9	4.4
29-Mar-08	3	1	1	A	3	3	4	5	5	3	2	1	1	1	1	1	1	1	1	2	2	2	2	1	2.1	5.5	
30-Mar-08	2	2	A	4	6	7	10	8	4	2	2	2	2	2	1	2	1	1	2	3	5	2	2	2	3.3	10.1	
31-Mar-08	2	A	6	7	6	4	6	6	5	4	3	2	2	2	2	3	2	2	2	2	2	2	2	1	3.2	6.9	
Hourly Avg	2.5	2.4	2.4	2.6	2.8	3.0	3.5	3.3	3.3	2.6	2.3	2.3	1.9	1.9	1.7	1.7	1.7	2.4	2.3	2.9	3.2	2.8	3.2	2.9			
Hourly Max	11.3	8.6	7.4	10.0	10.3	9.3	10.1	8.5	9.2	11.2	8.1	10.2	6.2	6.4	5.7	4.4	5.3	12.2	7.9	12.3	10.5	10.6	17.8	15.1			

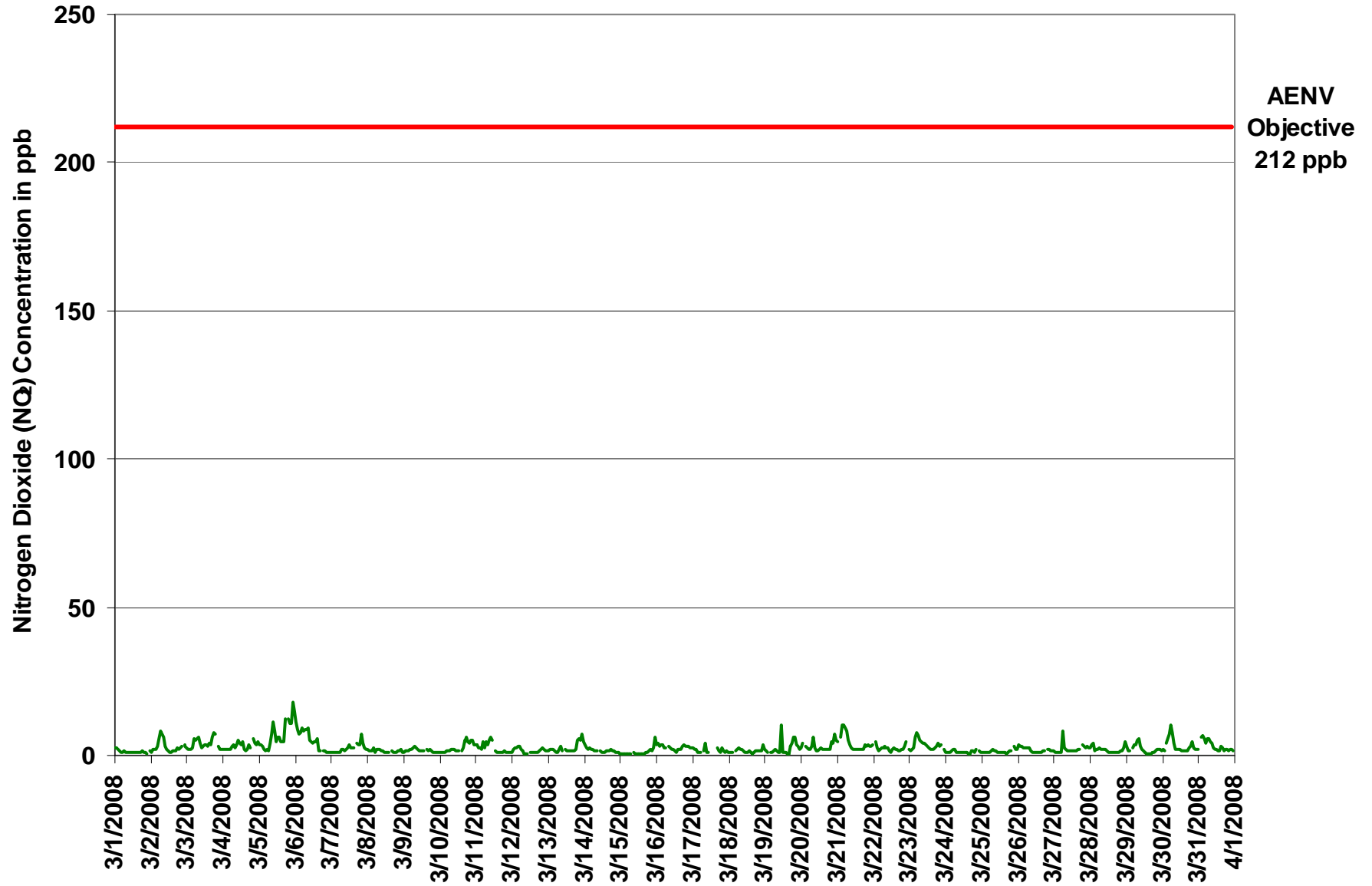


Figure 48. PASZA - Portable-Spirit River Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

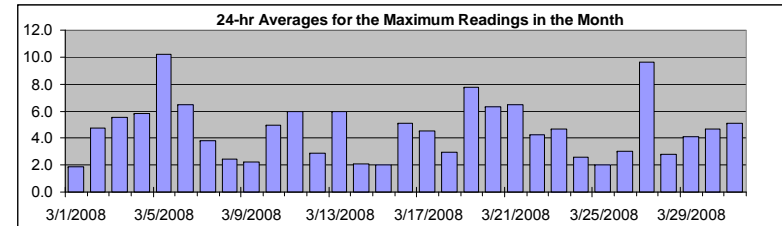
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	154.5	ppb	27-Mar	6:00 7:00
Maximum 24-hr Value:	10.2	ppb	5-Mar	



AIC Time:	30 hrs	Operational Time:	708 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	20.2	11.5	5.3	3.1	1.9	1.1	0.7	4.6 ppb	3.1 ppb

Status Flag Characters

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

Day Mountain Standard Time

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-Mar-08	4	3	3	2	2	2	2	2	2	3	2	1	1	1	1	1	1	1	3	2	2	1	A	2	1.8	3.7
2-Mar-08	3	3	4	2	4	10	13	9	9	5	2	2	1	1	1	2	2	17	2	4	5	A	4	4	4.7	16.7
3-Mar-08	3	2	3	3	3	9	8	7	7	6	3	6	5	4	4	7	6	9	10	9	A	6	3	3	5.5	10.2
4-Mar-08	3	2	2	3	2	2	5	9	4	7	12	14	6	15	2	3	5	8	5	A	8	5	5	5	5.8	15.0
5-Mar-08	5	5	4	2	2	3	3	10	11	14	12	11	8	11	6	9	6	17	A	14	18	19	26	20	10.2	25.7
6-Mar-08	13	10	8	11	11	11	14	10	11	7	5	5	5	6	7	2	3	A	3	2	2	3	1	1	6.5	13.8
7-Mar-08	1	1	1	1	1	1	1	3	4	3	2	8	5	3	4	5	A	7	5	7	10	6	4	3	3.8	9.6
8-Mar-08	2	3	2	2	3	2	3	7	3	2	2	3	2	1	1	A	2	2	3	1	3	2	2	2	2.5	7.3
9-Mar-08	1	2	3	2	3	2	4	4	3	2	2	2	2	2	A	3	2	3	2	1	1	1	1	1	2.2	3.9
10-Mar-08	1	1	2	4	4	3	2	12	4	7	2	4	2	A	2	4	8	7	12	8	7	6	7	5	5.0	12.5
11-Mar-08	4	4	4	3	3	25	4	9	10	24	7	6	A	6	2	10	1	2	2	4	3	1	1	2	6.0	25.3
12-Mar-08	1	4	7	3	5	4	3	4	1	3	1	A	2	1	1	2	2	3	3	3	5	2	3	2	2.9	7.0
13-Mar-08	2	5	3	2	2	2	3	3	7	2	A	8	4	2	3	3	2	10	4	22	17	10	15	7	6.0	21.9
14-Mar-08	4	3	3	3	4	3	2	2	2	A	2	1	1	1	1	1	1	3	2	2	2	1	1	1	2.1	4.2
15-Mar-08	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	6	6	4	3	3	5	9	2.0	8.6
16-Mar-08	6	10	6	5	5	5	3	A	6	5	10	2	3	1	7	10	3	4	7	7	4	3	3	3	5.1	10.3
17-Mar-08	3	3	3	1	1	1	A	2	23	2	12						4	2	1	16	3	1	2	1	4.5	23.0
18-Mar-08	1	1	1	A	2	3	4	3	7	4	3	2	1	2	8	1	1	2	3	2	2	3	2	8	2.9	8.2
19-Mar-08	4	2	2	A	2	1	3	3	4	2	1	93	1	1	1	1	1	10	8	9	8	12	6	3	7.7	93.2
20-Mar-08	4	5	A	5	5	3	6	6	8	5	2	2	3	3	3	5	4	8	5	7	16	7	20	14	6.3	20.2
21-Mar-08	5	A	8	12	12	11	11	6	5	4	6	3	2	7	14	3	9	5	4	4	5	4	4	5	6.5	13.7
22-Mar-08	A	7	4	3	3	3	3	4	6	4	4	2	2	3	5	4	5	5	5	7	3	4	6	A	4.2	7.1
23-Mar-08	3	2	2	4	9	9	10	6	5	5	4	4	3	3	2	2	2	6	4	7	6	5	A	4	4.7	9.7
24-Mar-08	1	3	2	1	2	2	10	2	1	1	2	1	2	1	1	1	1	2	11	4	3	A	2	1	2.6	11.2
25-Mar-08	1	1	1	1	1	2	2	3	2	4	2	2	1	1	1	1	1	1	3	4	A	4	2	3	2.0	4.4
26-Mar-08	4	4	4	3	5	6	7	4	3	3	2	1	3	1	2	1	1	2	3	A	3	3	2	2	3.0	6.8
27-Mar-08	1	1	1	1	1	1	154	11	3	3	2	1	1	3	2	2	2	2	A	6	4	3	11	3	9.6	154.5
28-Mar-08	3	5	5	2	3	3	4	4	3	3	4	2	1	1	1	1	2	1	1	1	2	2	6	6	2.8	6.0
29-Mar-08	5	2	8	A	4	9	6	6	8	4	3	4	1	2	2	2	7	3	2	3	4	3	4	3	4.1	8.5
30-Mar-08	2	2		7	10	10	12	10	6	3	2	3	2	2	2	5	2	2	3	5	8	4	3	3	4.7	12.2
31-Mar-08	5	A	9	9	8	5	13	9	5	5	4	2	2	3	4	8	4	3	2	5	3	3	3	2	5.1	13.1
Hourly Avg	3.3	3.3	3.6	3.5	3.9	4.9	10.4	5.8	5.8	4.8	3.9	6.8	2.6	3.2	3.2	3.5	3.1	5.2	4.4	5.9	5.5	4.5	5.3	4.2		
Hourly Max	12.8	9.8	8.8	12.4	12.0	25.3	154.5	12.1	23.0	24.2	12.5	93.2	7.8	15.0	13.7	10.3	9.0	17.2	12.5	21.9	17.8	18.6	25.7	19.8		

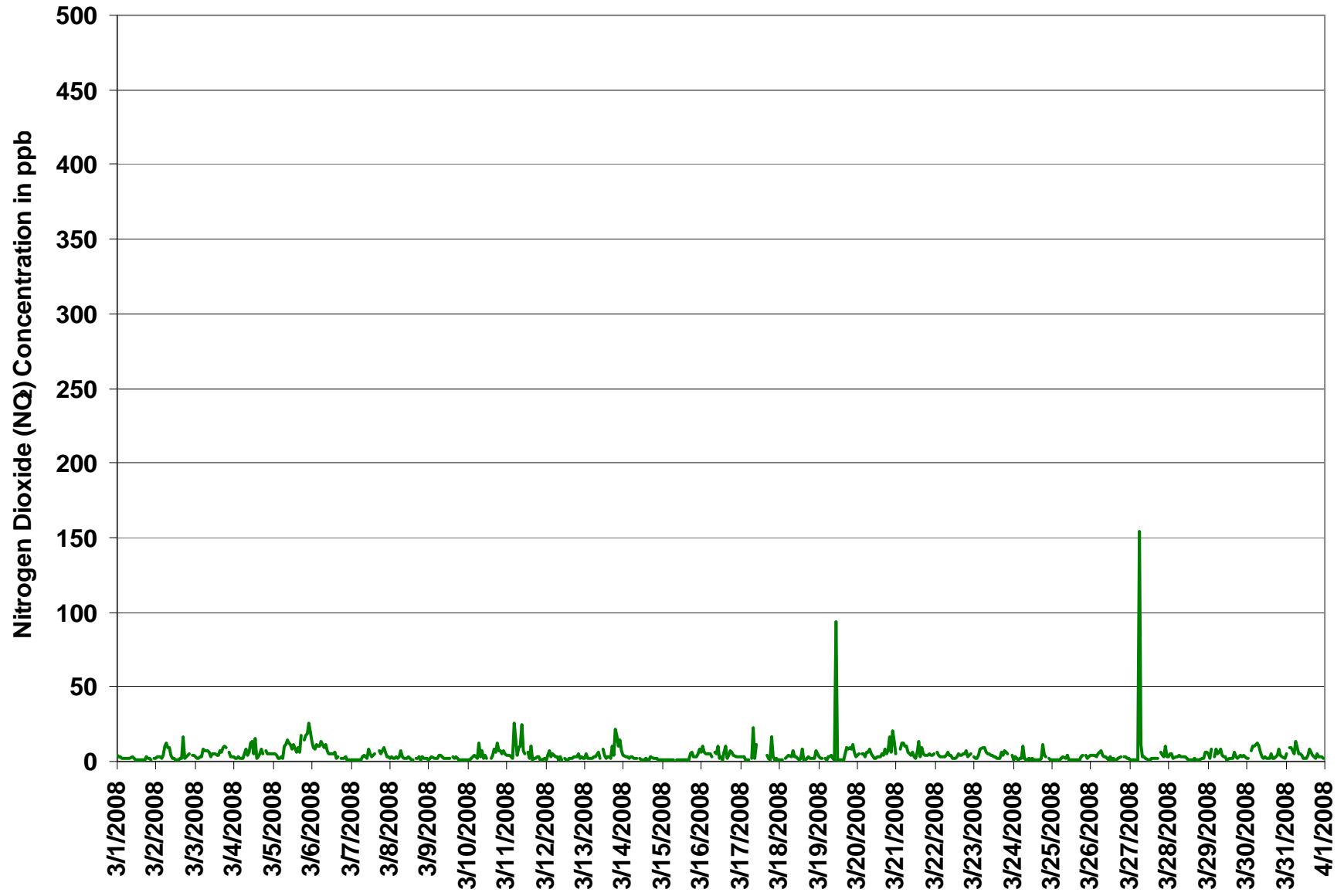
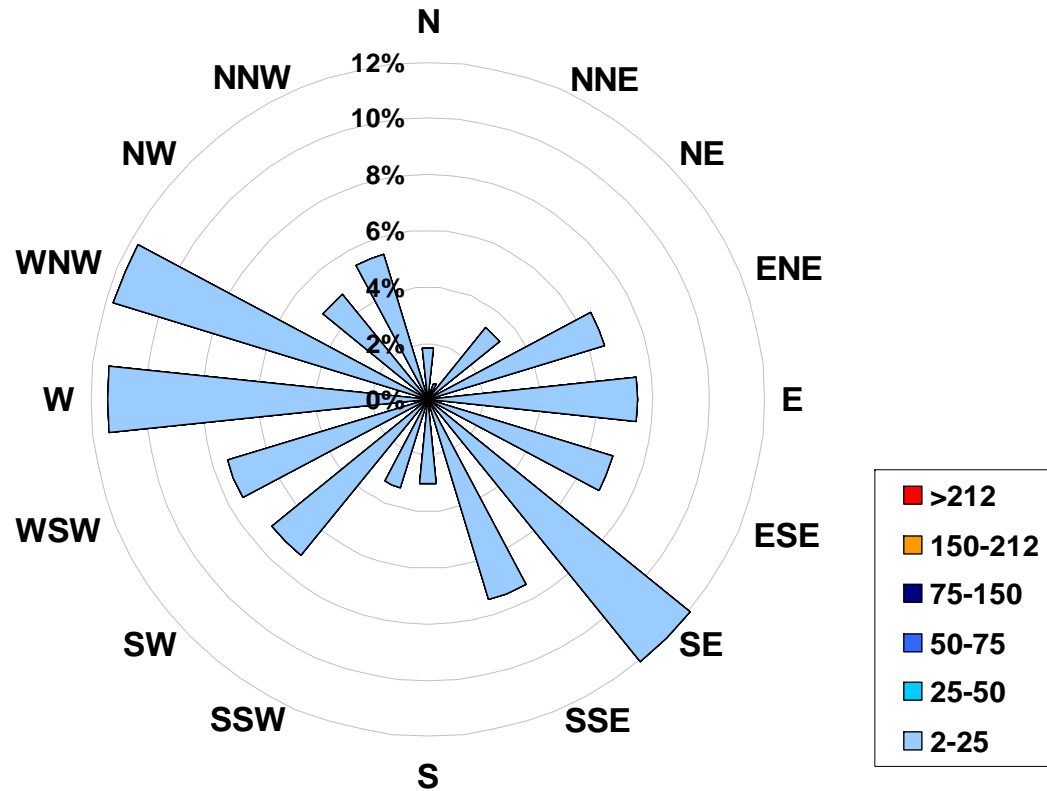


Figure 49. PASZA - Portable-Spirit River Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Portable-Spirit River Site for March 2008



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		708
25	to 50		0
50	to 75		0
75	to 150		0
150	to 212		0
	> 212		0
Total Non-Zero Values			708

PASZA - Portable-Spirit River Nitric Oxide Monthly Summary

Station: Portable-Spirit River
Station Owner: PASZA

HOURLY AVERAGE TABLE

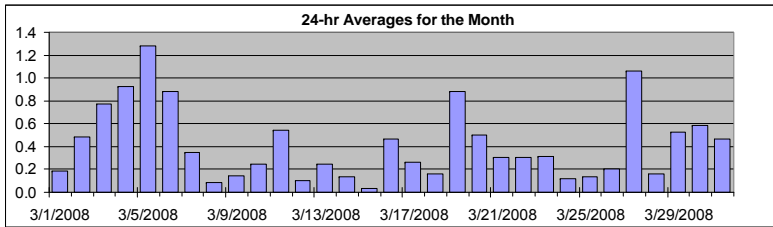
Nitric Oxide (NO)

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Summary

Maximum 1-hr Average:	19.3	ppb	27-Mar	6:00 7:00
Maximum 24-hr Average:	1.3	ppb	5-Mar	



AIC Time:	31 hrs	Operational Time:	708 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.3%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.9	2.0	0.3	0.1	0.0	0.0	0.0	0.4 ppb	0.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.5	
2-Mar-08	0	1	0	0	0	0	0	0	2	2	1	1	1	1	1	1	0	1	0	0	0	A	0	0	0.5	1.9
3-Mar-08	0	0	0	0	0	0	0	0	1	2	1	2	2	2	2	2	1	1	0	0	A	0	0	0	0.8	2.2
4-Mar-08	0	0	0	0	0	0	0	0	1	2	5	4	3	4	0	0	0	0	0	A	0	0	0	0	0.9	4.9
5-Mar-08	0	0	0	0	0	0	0	0	1	4	4	2	4	5	3	2	1	2	A	0	0	0	0	0	1.3	4.8
6-Mar-08	0	0	0	0	0	0	0	0	2	3	3	3	3	3	3	0	0	A	0	0	0	0	0	0	0.9	3.2
7-Mar-08	0	0	0	0	0	0	0	0	0	0	1	1	2	1	1	1	A	1	0	0	0	0	0	0	0.3	2.0
8-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.1	0.3
9-Mar-08	0	0	0	0	0	0	0	0	0	0	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0.1	0.5
10-Mar-08	0	0	0	0	0	0	0	0	0	1	0	1	0	A	0	1	1	0	0	0	0	0	0	0	0.2	1.1
11-Mar-08	0	0	0	0	0	1	0	0	1	2	3	3	A	0	0	0	0	0	0	0	0	0	0	0	0.5	3.2
12-Mar-08	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
13-Mar-08	0	0	0	0	0	0	0	0	1	0	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0.2	1.2
14-Mar-08	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
15-Mar-08	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
16-Mar-08	0	0	0	0	0	0	0	A	1	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0.5	1.8
17-Mar-08	0	0	0	0	0	0	A	0	3	0	0						0	0	0	1	0	0	0	0.3	3.3	
18-Mar-08	0	0	0	A	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.2	1.0
19-Mar-08	0	0	0	A	0	0	0	0	1	1	0	16	0	0	0	0	0	1	0	0	0	1	0	0	0.9	15.7
20-Mar-08	0	0	A	0	0	0	0	0	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0.5	2.4
21-Mar-08	0	A	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.3	0.8
22-Mar-08	A	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	A	0.3	1.1
23-Mar-08	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	A	0.3	1.3
24-Mar-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.4
25-Mar-08	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.1	0.6
26-Mar-08	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0.2	0.8
27-Mar-08	0	0	0	0	0	0	19	1	0	0	0	0	1	0	0	0	0	0	A	0	0	0	0	0	1.1	19.3
28-Mar-08	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9
29-Mar-08	0	0	0	A	0	0	0	1	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	3.6
30-Mar-08	0	0	A	1	0	0	0	2	3	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0.6	2.8
31-Mar-08	0	A	0	0	0	0	0	1	2	2	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0.5	1.9
Hourly Avg	0.0	0.1	0.0	0.0	0.0	0.1	0.7	0.3	1.0	1.1	1.1	1.6	0.9	0.8	0.6	0.4	0.3	0.4	0.1	0.1	0.0	0.0	0.0	0.0		
Hourly Max	0.3	0.8	0.1	0.7	0.1	1.1	19.3	2.2	3.6	3.9	4.9	15.7	4.3	4.8	2.9	2.2	1.2	2.4	0.5	0.6	0.2	0.7	0.3	0.1		

PASZA - Portable-Spirit River Oxides of Nitrogen Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

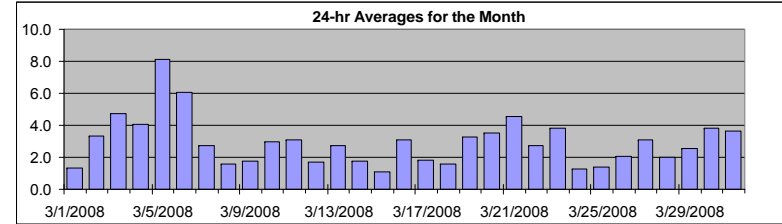
HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Maximum 1-hr Average:	26.7	ppb	27-Mar	6:00 7:00
Maximum 24-hr Average:	8.1	ppb	5-Mar	



AIC Time:	31 hrs	Operational Time:	708 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.3%						
Percentile	99	95	75	50	25	5	1	Average	Median
	12.0	8.1	3.5	2.1	1.4	0.8	0.5	3.0 ppb	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																								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-Mar-08	3	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	A	1	1.4	2.8		
2-Mar-08	1	3	2	2	3	6	8	7	8	5	3	2	2	2	2	2	2	3	2	3	3	A	3	3	3.4	8.3
3-Mar-08	3	2	2	2	3	6	5	6	7	6	4	5	6	6	5	6	5	7	8	7	A	3	2	2	4.7	8.4
4-Mar-08	2	2	2	2	2	2	3	4	3	6	10	9	6	9	2	2	4	2	A	6	4	4	4	4	4.0	10.1
5-Mar-08	4	4	3	2	2	2	2	4	8	15	12	7	11	11	8	6	6	15	A	12	11	11	18	15	8.1	17.9
6-Mar-08	11	9	7	8	9	8	9	9	11	8	8	7	8	7	9	2	2	A	2	2	1	1	1	1	6.1	11.4
7-Mar-08	1	1	1	1	1	1	1	2	2	2	3	4	6	3	3	4	A	5	4	4	7	4	3	2	2.8	7.2
8-Mar-08	2	2	1	2	2	1	2	2	2	2	1	1	1	1	1	A	2	1	1	1	2	1	2	1	1.6	2.4
9-Mar-08	1	1	2	2	2	2	3	3	3	2	2	2	2	1	A	2	2	3	2	1	1	1	1	1	1.8	3.0
10-Mar-08	1	1	1	1	2	2	2	2	3	2	2	2	2	A	2	3	6	5	6	5	4	5	5	4	3.0	6.4
11-Mar-08	4	4	3	2	2	6	3	5	5	7	9	8	A	2	1	2	1	1	1	1	1	1	1	1	3.1	8.8
12-Mar-08	1	2	3	3	3	3	2	1	1	1	1	A	1	1	1	2	1	1	2	2	2	2	1	1	1.7	3.3
13-Mar-08	2	2	2	2	2	1	1	2	3	2	A	3	2	2	2	2	2	2	2	5	5	7	5	5	2.7	7.3
14-Mar-08	4	3	2	2	2	2	2	2	2	A	2	2	2	1	1	2	2	2	2	1	1	1	1	1	1.8	3.8
15-Mar-08	1	1	0	0	0	0	0	0	A	1	1	1	1	1	0	0	1	1	1	1	2	2	3	6	1.1	6.3
16-Mar-08	4	4	3	3	3	2	3	A	4	4	4	3	2	2	3	3	2	3	4	3	3	3	3	3	3.1	4.3
17-Mar-08	2	2	2	1	1	1	A	1	7	1	1						3	2	1	3	1	1	1	1	1.8	7.2
18-Mar-08	1	1	1	A	2	2	3	2	3	2	1	1	1	1	2	1	1	1	1	1	2	2	2	3	1.6	3.4
19-Mar-08	2	1	1	A	1	1	2	2	2	2	1	26	1	1	1	1	1	4	4	6	6	4	3	2	3.3	25.8
20-Mar-08	2	4	A	3	3	2	3	4	9	4	2	2	3	3	3	3	2	3	2	2	5	4	7	5	3.5	8.5
21-Mar-08	5	A	6	10	10	9	8	5	4	3	3	3	3	3	3	2	3	3	4	3	4	3	4	4	4.6	10.4
22-Mar-08	A	5	3	2	2	3	2	3	3	4	4	2	1	3	4	2	2	2	2	2	2	3	4	A	2.8	4.6
23-Mar-08	2	2	2	2	6	8	7	5	5	6	5	5	4	3	3	3	2	3	3	4	3	4	A	2	3.8	8.0
24-Mar-08	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	A	1	1.3	2.4
25-Mar-08	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	1	1	1	A	3	2	2	1.4	3.0
26-Mar-08	4	3	3	3	3	3	3	3	3	2	2	1	1	1	1	1	1	1	2	A	2	2	2	1	2.0	3.6
27-Mar-08	1	1	1	1	1	1	27	3	3	3	2	2	2	2	2	2	2	2	A	4	3	3	3	2	3.1	26.7
28-Mar-08	2	4	4	2	2	2	3	3	2	2	3	2	1	1	1	1	1	1	1	1	1	1	2	4	2.0	4.5
29-Mar-08	3	1	1	A	3	3	4	6	9	6	4	3	1	1	1	1	1	1	1	2	2	2	2	1	2.5	9.0
30-Mar-08	2	1	A	5	6	7	10	10	7	4	4	4	3	2	1	2	1	1	3	3	5	2	2	2	3.8	10.5
31-Mar-08	2	A	6	7	6	4	6	7	7	6	4	3	2	2	2	4	3	2	2	2	2	2	2	1	3.6	7.0
Hourly Avg	2.5	2.4	2.4	2.6	2.8	3.1	4.2	3.6	4.3	3.7	3.3	3.9	2.7	2.7	2.3	2.1	2.0	2.7	2.4	3.0	3.2	2.8	3.2	2.9		
Hourly Max	11.4	8.6	7.5	10.1	10.4	9.4	26.7	9.9	11.4	14.9	12.0	25.8	10.5	11.1	8.5	6.3	6.4	14.5	8.4	12.3	10.6	17.9	15.2			

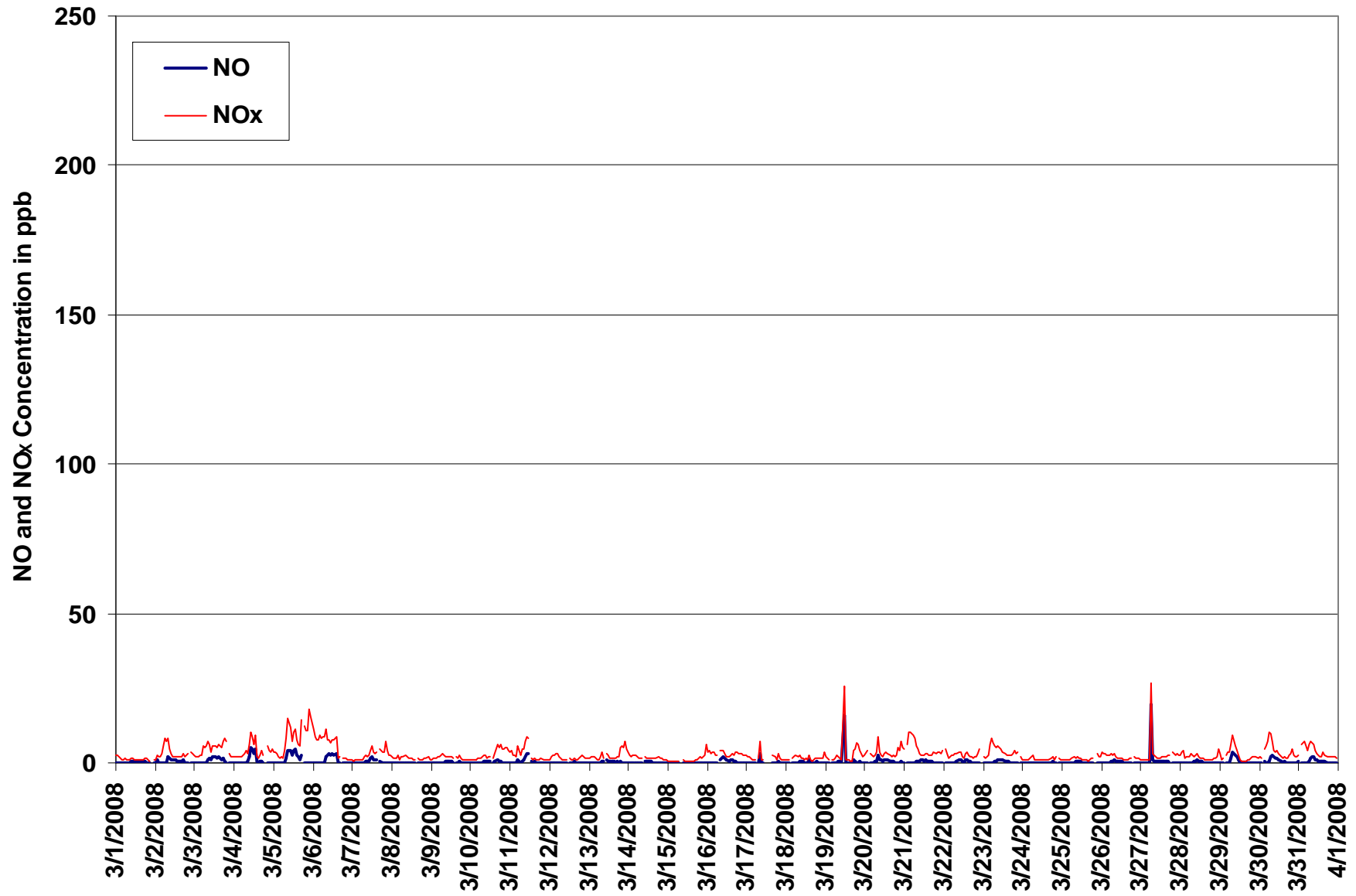


Figure 50. PASZA - Portable-Spirit River Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

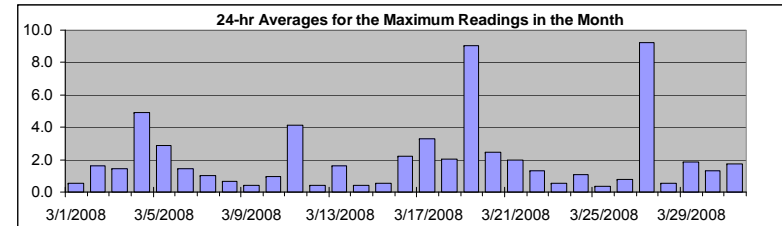
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	177.5	ppb	27-Mar	6:00 7:00
Maximum 24-hr Value:	9.2	ppb	27-Mar	



AIC Time:	30 hrs	Operational Time:	708 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	21.9	6.1	1.5	0.5	0.2	0.0	0.0	2.0 ppb	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-Mar-08	0	0	0	0	0	0	0	2	1	1	1	1	1	1	1	1	1	1	1	1	0	A	0	0	0.6	1.8	
2-Mar-08	3	3	1	0	0	0	0	1	4	3	2	1	1	1	1	1	1	1	1	0	0	1	A	1	1	1.6	11.1
3-Mar-08	0	0	0	0	0	1	0	1	2	2	1	5	4	3	2	6	2	3	1	0	A	0	0	0	1.5	5.8	
4-Mar-08	0	0	0	2	1	0	1	1	2	6	18	36	5	36	1	1	1	1	0	A	0	0	0	0	4.9	36.4	
5-Mar-08	0	0	0	0	0	0	0	6	3	5	6	6	6	15	4	5	2	4	A	0	0	0	2	1	2.9	15.1	
6-Mar-08	1	0	0	0	0	0	2	1	5	3	4	3	3	3	3	0	1	A	0	0	0	1	0	0	1.4	4.6	
7-Mar-08	0	0	0	0	0	0	0	0	1	1	1	7	3	2	2	2	A	1	0	0	0	0	1	0	2	1.0	6.9
8-Mar-08	2	1	0	0	0	0	0	2	0	0	1	2	1	0	0	A	0	0	1	4	0	0	0	0	0.7	4.0	
9-Mar-08	0	0	0	0	0	0	1	0	1	1	1	1	1	1	A	1	0	1	0	0	0	0	0	0	0.4	1.4	
10-Mar-08	0	0	0	0	0	0	0	2	3	4	0	3	1	A	1	2	3	1	1	0	0	0	0	0	1.0	4.3	
11-Mar-08	0	0	0	0	0	11	0	2	18	33	3	4	A	6	2	9	0	1	1	2	2	0	0	0	4.1	32.5	
12-Mar-08	0	1	0	0	0	1	0	1	0	1	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0.4	1.0	
13-Mar-08	0	2	1	0	0	0	1	1	3	1	A	9	2	1	2	2	0	6	0	5	0	0	0	0	1.6	9.2	
14-Mar-08	0	0	0	0	1	1	0	0	0	A	1	1	1	0	1	0	0	2	0	0	0	0	0	0	0.4	1.7	
15-Mar-08	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	1	6	2	1	0	0	0	1	0.5	6.1	
16-Mar-08	0	0	0	0	0	2	2	A	2	4	11	2	3	1	5	12	1	1	2	2	1	0	0	0	2.2	12.0	
17-Mar-08	0	0	0	0	0	0	A	1	41	1	5						0	0	0	10	1	0	0	0	3.3	40.9	
18-Mar-08	0	0	0	A	1	0	0	1	8	4	4	1	1	1	16	0	0	0	0	6	0	0	1	0	2.0	16.0	
19-Mar-08	0	0	0	A	0	0	0	1	11	11	0	141	0	1	0	0	0	13	1	1	2	24	0	0	9.0	141.1	
20-Mar-08	0	0	A	1	0	0	6	1	4	3	1	1	2	2	2	4	1	5	3	3	8	0	5	4	2.5	8.0	
21-Mar-08	0	A	0	0	0	1	1	1	1	1	4	2	1	5	12	1	8	4	0	0	0	0	0	4	2.0	11.9	
22-Mar-08	A	0	1	1	0	0	0	0	4	2	2	1	1	2	3	2	2	2	2	5	0	0	0	A	1.3	4.6	
23-Mar-08	0	0	0	0	0	0	0	1	1	2	1	2	1	1	1	0	0	1	0	0	0	0	A	0	0.5	1.9	
24-Mar-08	0	0	0	0	0	0	5	0	0	0	1	0	1	0	0	0	0	1	11	4	0	A	0	0	1.1	11.3	
25-Mar-08	0	0	0	0	0	0	0	1	1	3	1	0	0	0	0	0	0	0	1	0	A	0	0	0	0.4	3.4	
26-Mar-08	0	0	0	0	1	1	3	1	1	4	1	1	3	0	1	0	0	0	0	A	0	0	0	0	0.8	4.2	
27-Mar-08	0	0	0	0	0	0	177	22	1	1	1	1	1	3	1	1	1	0	A	2	0	0	0	0	9.2	177.5	
28-Mar-08	0	0	0	0	0	0	1	1	1	1	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0.5	2.4	
29-Mar-08	2	0	3	A	0	3	0	3	5	4	3	4	1	1	0	2	5	2	1	2	0	0	0	1	1.9	5.2	
30-Mar-08	1	0		5	0	0	1	3	4	2	2	2	2	1	0	3	0	0	0	0	2	0	1	0	1.3	4.9	
31-Mar-08	3	A	0	0	0	2	5	7	2	2	2	1	1	2	2	5	1	1	0	1	2	0	0	0	1.7	6.7	
Hourly Avg	0.5	0.3	0.3	0.4	0.3	0.8	6.9	2.0	4.3	3.5	2.7	8.3	1.6	3.1	2.2	2.0	1.2	2.3	1.1	1.8	0.7	1.0	0.5	0.5			
Hourly Max	3.5	2.6	2.7	4.9	1.2	11.4	177.5	22.2	40.9	32.5	18.0	141.1	6.1	36.0	16.0	12.0	7.8	12.7	11.3	10.3	8.0	23.9	5.5	3.8			

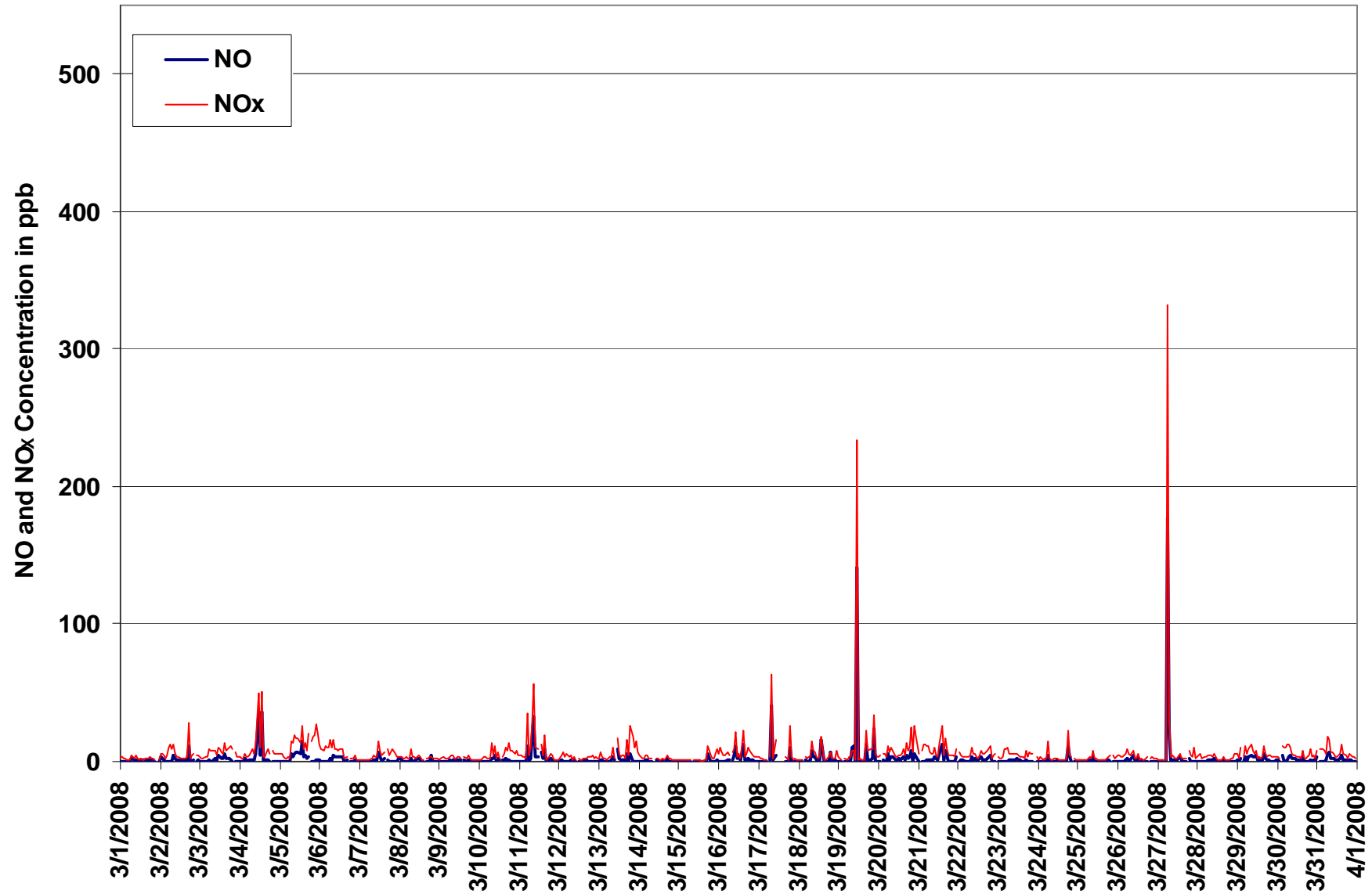


Figure 51. PASZA - Portable-Spirit River Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

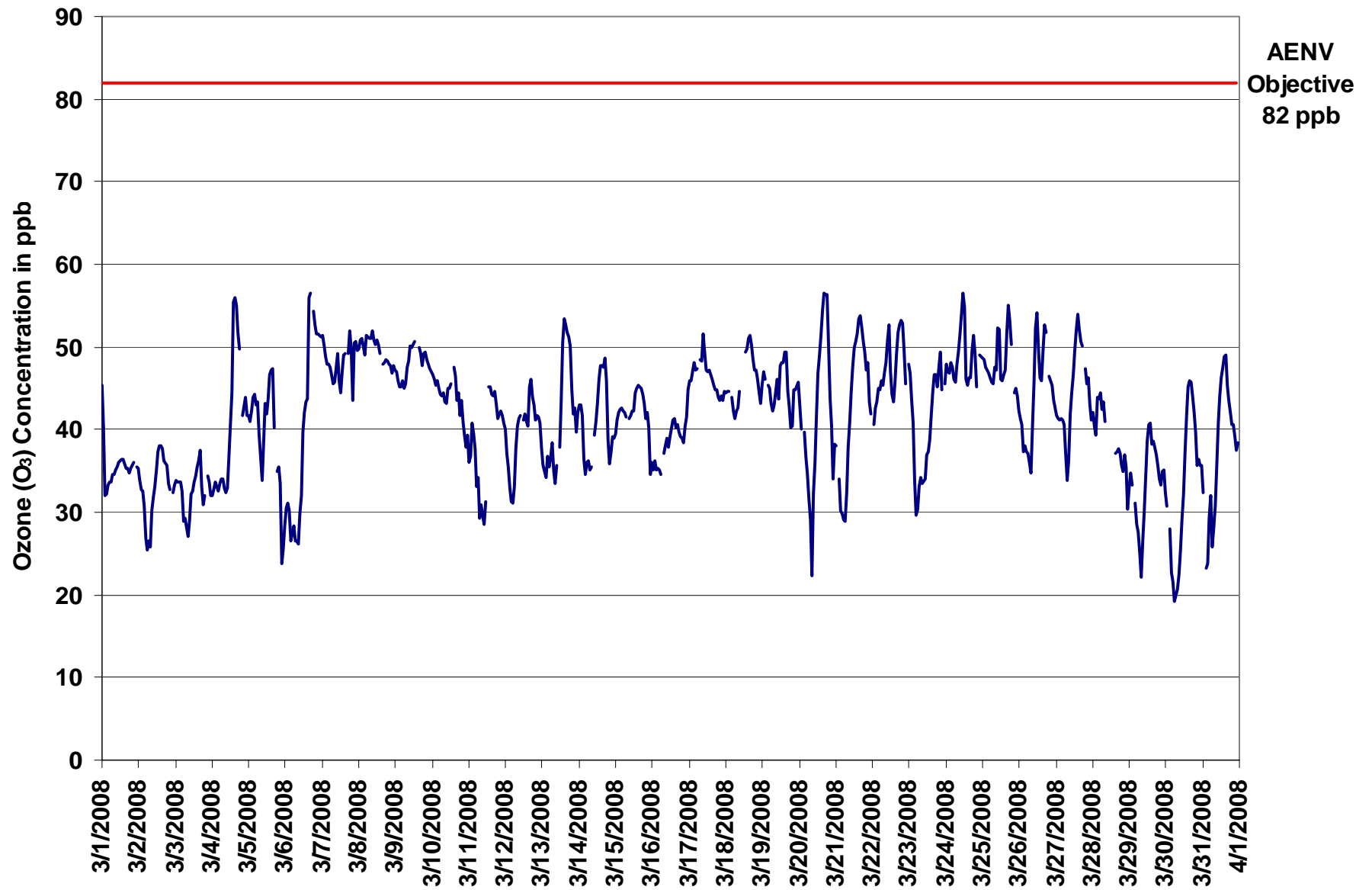


Figure 52. PASZA - Portable-Spirit River Ozone 1-hr Average Monthly Trend

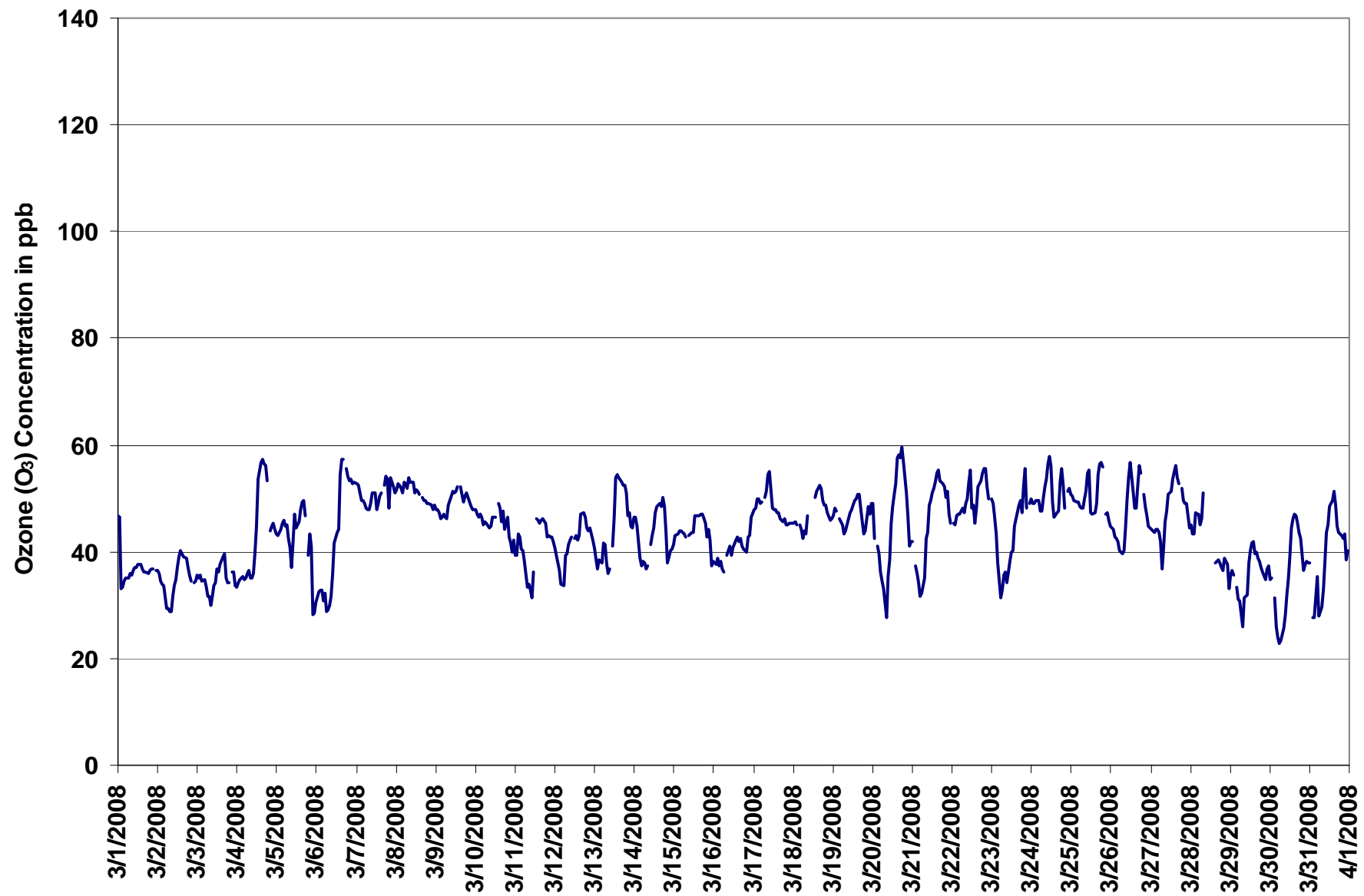
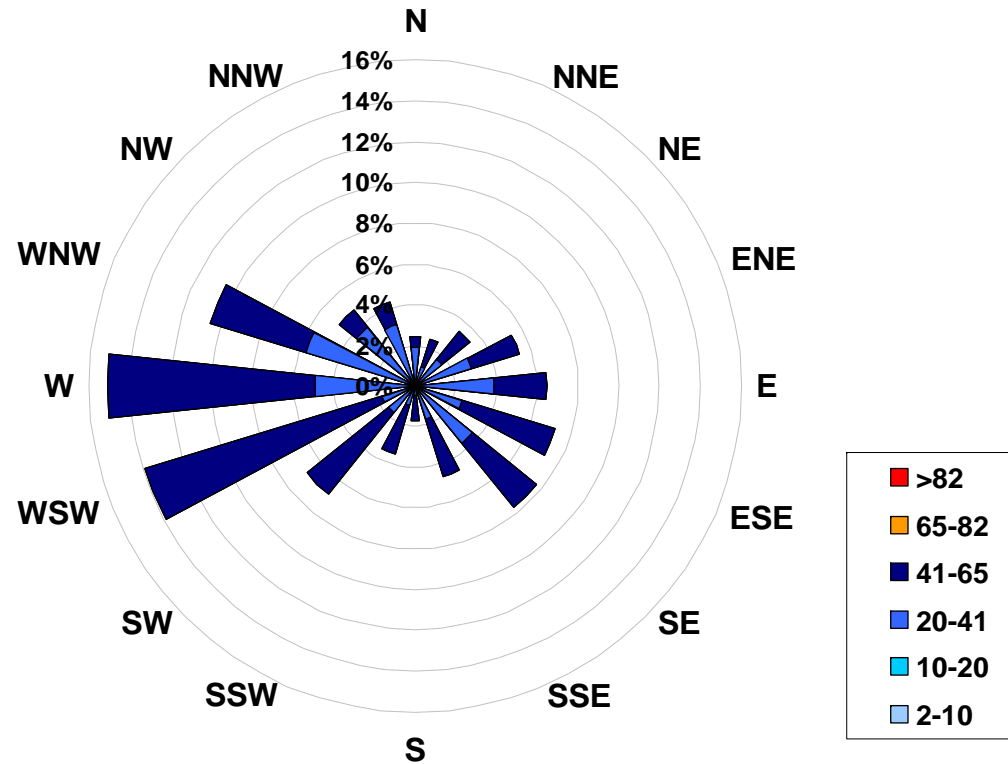


Figure 53. PASZA - Portable-Spirit River Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Portable-Spirit River Site for March 2008



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	<	10	0
10	to	20	1
20	to	41	289
41	to	65	414
65	to	82	0
	>	82	0
Total Non-Zero Values			704

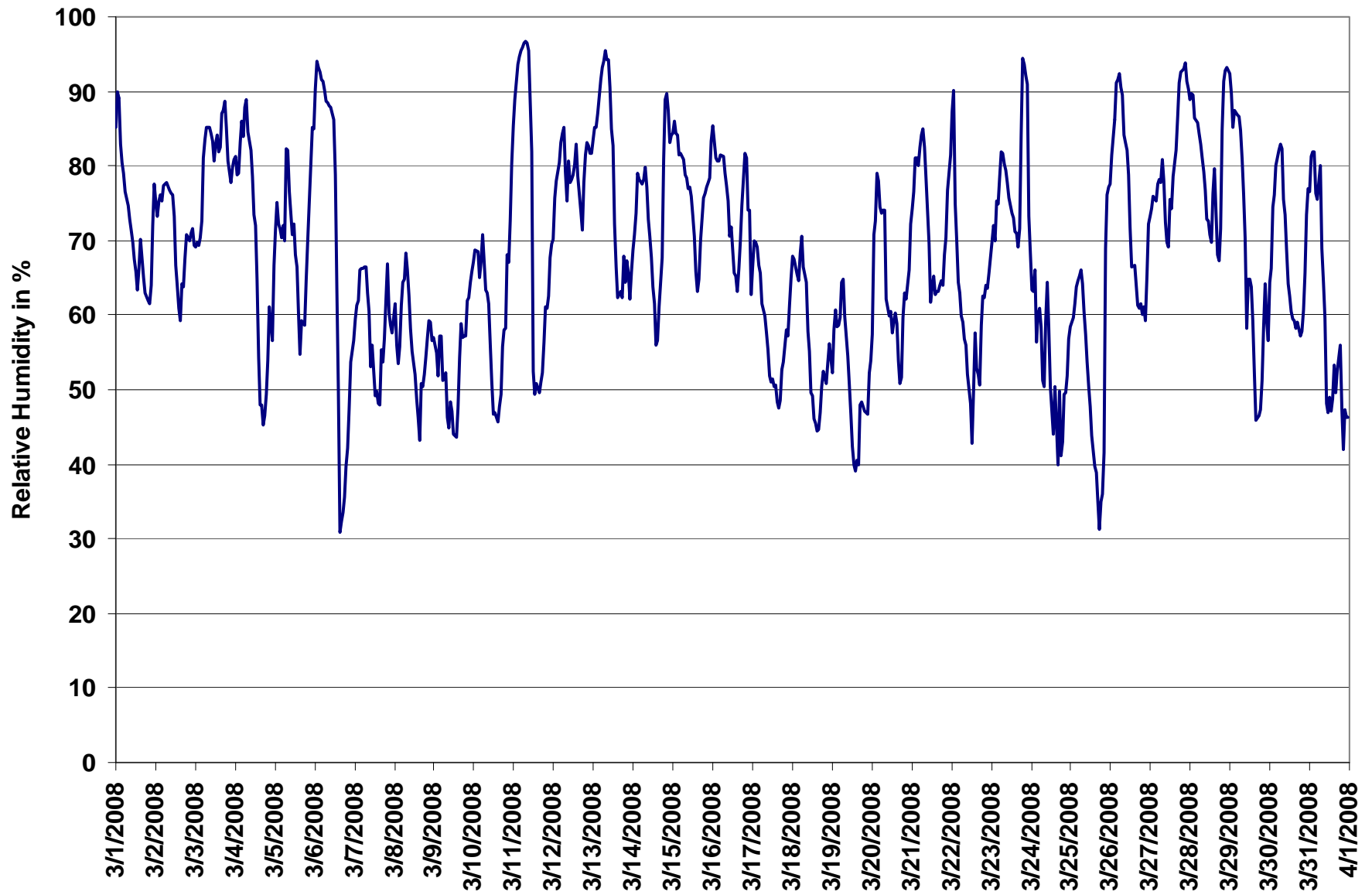


Figure 54. PASZA - Portable-Spirit River Relative Humidity 1-hr Average Monthly Trend

PASZA - Portable-Spirit River Temperature Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

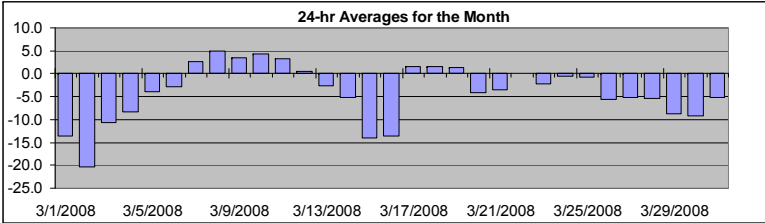
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	9.1 °C	6-Mar	15:00 16:00
Maximum 24-hr Value:	5.0 °C	8-Mar	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	7.5	5.3	1.0	-2.8	-7.8	-16.5	-22.7	-3.9 °C	-2.8 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Mar-08	-1	-2	-8	-10	-11	-12	-14	-15	-15	-15	-14	-15	-15	-15	-15	-15	-15	-16	-16	-16	-17	-17	-18	-19	-13.6	-0.7	
2-Mar-08	-20	-21	-23	-23	-23	-24	-24	-24	-27	-26	-24	-22	-20	-19	-17	-16	-17	-16	-17	-17	-17	-17	-17	-16	-20.3	-16.0	
3-Mar-08	-16	-16	-15	-15	-14	-14	-13	-12	-12	-11	-11	-9	-8	-7	-5	-5	-6	-6	-7	-9	-10	-10	-11	-12	-10.6	-4.9	
4-Mar-08	-12	-13	-15	-16	-17	-16	-13	-13	-15	-13	-11	-11	-9	-6	1	1	1	0	-1	-2	-4	-6	-4	-5	-8.3	1.1	
5-Mar-08	-6	-7	-5	-4	-5	-5	-5	-8	-7	-6	-4	-3	-2	-1	0	1	0	0	0	-3	-3	-6	-9	-8	-4.0	1.3	
6-Mar-08	-8	-9	-9	-9	-10	-10	-11	-12	-12	-11	-9	-7	-6	-3	0	9	8	7	6	6	5	5	4	4	-2.9	9.1	
7-Mar-08	4	3	2	1	1	0	0	0	1	2	4	4	5	5	5	6	5	4	3	2	1	3	2	3	2.7	5.7	
8-Mar-08	4	4	5	4	3	4	5	4	4	5	6	6	7	7	8	8	7	6	5	4	4	3	3	3	5.0	8.0	
9-Mar-08	2	2	2	0	0	1	0	0	2	3	4	5	6	6	6	6	6	6	6	5	4	4	4	4	3.5	6.3	
10-Mar-08	3	3	3	3	3	2	2	3	3	4	6	7	8	8	7	6	6	5	5	5	4	4	3	2	4.3	8.2	
11-Mar-08	2	1	1	1	1	1	0	0	0	0	2	3	7	7	7	7	7	6	5	4	4	4	4	3	3.3	7.5	
12-Mar-08	3	2	1	0	1	1	1	2	2	1	1	1	1	2	1	1	1	1	0	0	-2	-2	-2	-2	0.6	3.2	
13-Mar-08	-3	-3	-3	-3	-3	-3	-3	-5	-6	-4	-3	-3	-2	-1	0	0	0	0	-2	-2	-3	-4	-4	-5	-2.7	0.1	
14-Mar-08	-5	-6	-6	-7	-6	-6	-6	-7	-7	-6	-5	-5	-4	-3	-1	0	-1	-2	-3	-4	-6	-8	-9	-10	-5.1	-0.4	
15-Mar-08	-11	-12	-12	-13	-13	-14	-14	-15	-15	-15	-15	-15	-14	-14	-14	-14	-13	-14	-14	-14	-14	-14	-15	-17	-14.0	-10.8	
16-Mar-08	-18	-18	-17	-20	-19	-20	-22	-20	-20	-19	-16	-16	-13	-12	-10	-9	-9	-9	-9	-8	-8	-6	-5	-2	-13.5	-2.3	
17-Mar-08	-2	-2	-1	-1	0	0	1	0	1	2	3	4	4	4	4	5	4	4	3	2	1	1	0	0	1.6	4.7	
18-Mar-08	0	0	0	0	0	-1	-2	-1	-1	1	2	4	4	4	4	5	5	5	4	3	2	2	1	0	0	1.6	5.1
19-Mar-08	0	0	0	1	0	0	-2	-2	-1	1	2	4	5	6	6	4	4	3	2	1	1	1	0	0	1.4	5.6	
20-Mar-08	-1	-4	-5	-6	-7	-8	-8	-8	-8	-6	-5	-5	-3	-3	-2	-1	-1	0	-1	-2	-2	-3	-4	-4	-4.1	0.0	
21-Mar-08	-5	-6	-7	-7	-7	-8	-7	-7	-6	-6	-4	-2	-2	-2	-1	0	0	0	0	0	-1	-1	-2	-2	-3.5	-0.1	
22-Mar-08	-4	-3	-4	-4	-3	-3	-2	-1	1	2	4	5	4	4	4	4	4	4	2	1	0	-1	-1	-3	0.2	4.7	
23-Mar-08	-4	-4	-3	-4	-4	-5	-5	-5	-4	-3	-2	-2	-1	-1	0	1	1	1	0	0	-1	-1	-2	-3	-2.2	1.3	
24-Mar-08	-3	-4	-5	-3	-3	-4	-4	-2	-1	-1	0	1	3	3	2	3	3	2	2	0	-1	-1	-1	-2	-0.6	3.1	
25-Mar-08	-1	-2	-2	-2	-3	-3	-3	-3	-1	0	1	2	2	2	2	2	2	2	2	1	-1	-5	-6	-6	-0.7	2.5	
26-Mar-08	-6	-7	-7	-9	-9	-9	-10	-10	-9	-8	-8	-7	-5	-3	-2	-1	-1	-1	-2	-3	-3	-4	-5	-6	-5.5	-0.7	
27-Mar-08	-7	-7	-7	-7	-8	-8	-8	-8	-7	-6	-5	-4	-4	-3	-4	-3	-3	-3	-3	-3	-4	-4	-4	-5	-5.3	-3.1	
28-Mar-08	-5	-5	-5	-6	-6	-7	-7	-7	-7	-6	-5	-5	-5	-4	-4	-4	-4	-3	-3	-4	-5	-6	-7	-8	-5.4	-3.4	
29-Mar-08	-8	-8	-9	-11	-11	-12	-12	-12	-12	-10	-7	-8	-8	-7	-7	-6	-6	-6	-6	-7	-8	-10	-9	-9	-8.7	-5.7	
30-Mar-08	-11	-11	-12	-13	-14	-14	-14	-15	-14	-14	-12	-9	-7	-4	-2	-2	-3	-4	-5	-5	-6	-8	-10	-10	-9.1	-2.1	
31-Mar-08	-10	-12	-12	-12	-11	-11	-14	-12	-8	-5	-2	-2	-2	-1	-1	0	0	1	0	-1	-1	-3	-4	-4	-5.2	0.6	
Hourly Avg	-4.8	-5.4	-5.8	-6.2	-6.5	-6.8	-7.0	-7.1	-6.5	-5.5	-4.2	-3.3	-2.4	-1.6	-0.9	-0.3	-0.4	-0.7	-1.4	-2.3	-2.9	-3.5	-4.2	-4.4			
Hourly Max	3.8	4.5	4.9	4.4	3.2	4.1	4.7	4.0	4.3	5.3	6.2	7.1	8.2	7.6	7.9	9.1	8.5	7.1	6.1	5.5	5.3	5.0	4.5	4.2			

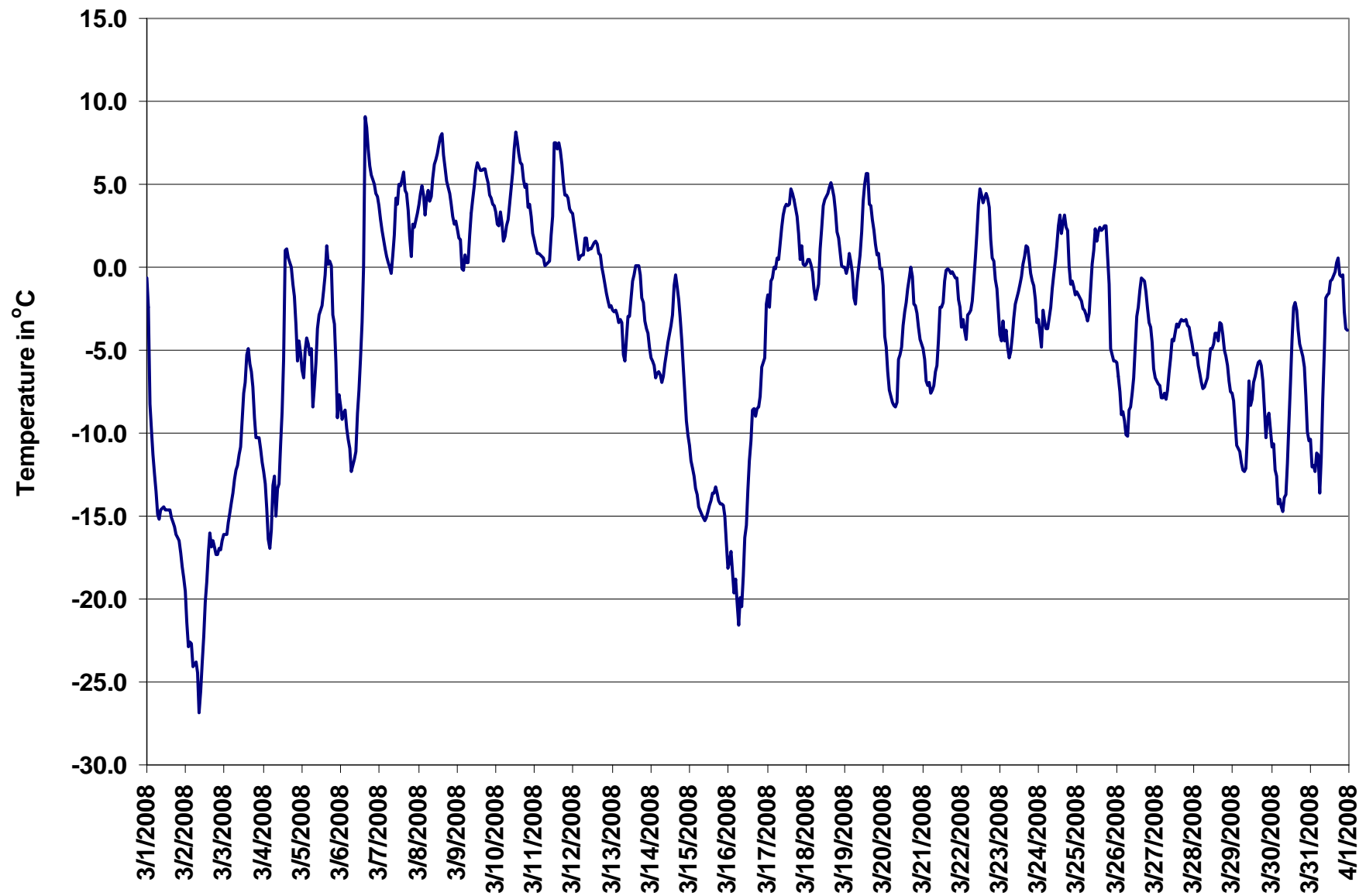


Figure 55. PASZA - Portable-Spirit River Temperature 1-hr Average Monthly Trend

PASZA - Portable-Spirit River Scalar Wind Speed Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

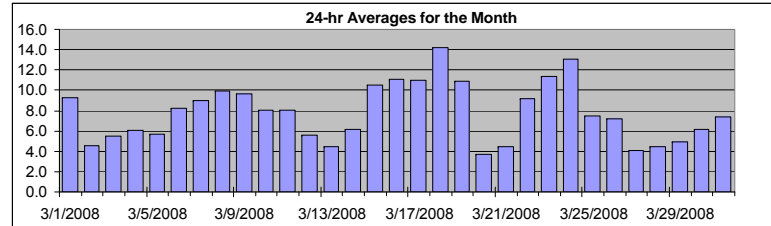
Wind Speed (WSs)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	26.0	km/hr	19-Mar	3:00 4:00
Maximum 24-hr Value:	14.2	km/hr	18-Mar	

Calm Time:	0 hrs	0% calms	Operational Time:	733 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	98.5%				
Percentile	99	95	75	50	25	5	1	AverageS
	21.3	16.4	11.3	6.8	3.6	1.9	1.3	7.8 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Mar-08	7	8	10	9	10	9	7	5	5	7	8	12	11	11	10	13	10	8	7	7	11	13	12	13	9.3	13.3	
2-Mar-08	11	4	2	3	4	4	7	5	7	10	12	8	4	4	2	2	4	3	3	3	4	1	1	2	4.6	12.2	
3-Mar-08	5	3	1	1	2	1	1	2	3	4	6	4	5	4	2	3	9	6	5	11	15	11	14	16	5.5	15.5	
4-Mar-08	16	15	9	2	3	3	2	3	3	3	6	3	3	2	6	6	5	3	6	7	10	9	9	10	6.0	15.7	
5-Mar-08	13	13	10	8	8	7	5	6	4	4	5	7	6	5	4	2	3	2	4	4	2	5	5	3	5.6	13.2	
6-Mar-08	4	2	4	3	3	4	3	2	2	10	3	2	9	8	8	15	15	19	21	24	13	9	7	8	8.2	23.8	
7-Mar-08	8	8	10	7	7	6	6	6	6	11	3	20	23	9	11	12	8	6	4	3	7	10	13	12	9.0	22.9	
8-Mar-08	5	4	4	3	2	6	16	10	13	8	8	12	11	10	10	11	7	14	13	13	14	14	15	14	9.9	16.4	
9-Mar-08	7	5	8	9	13	9	8	5	5	2	15	14	12	11	9	13	4	6	9	13	13	19	15	12	9.7	18.5	
10-Mar-08	9	9	9	18	16	14	13	16	13	10	N	4	2	2	5	9	8	4	3	8	5	3	2	4	8.1	17.7	
11-Mar-08	2	5	4	2	2	2	4	2	5	5	2	3	11	15	15	7	4	13	16	10	18	18	13	15	8.1	17.9	
12-Mar-08	9	3	2	2	2	2	3	5	8	8	8	8	7	7	6	8	10	8	3	2	5	8	7	5	5.6	10.1	
13-Mar-08	4	1	3	2	3	3	3	7	7	3	3	3	4	5	6	7	7	8	4	5	1	4	8	4	4.5	8.4	
14-Mar-08	4	1	2	3	5	5	4	5	4	8	8	4	3	2	2	1	3	7	15	16	16	17	13	6.2	16.6		
15-Mar-08	13	15	12	10	13	13	13	12	13	15	13	12	15	16	15	13	8	5	6	4	3	5	6	6	10.5	15.9	
16-Mar-08	8	11	12	3	1	1	2	7	7	13	16	16	17	16	19	23	13	13	13	15	13	7	3	16	11.1	23.3	
17-Mar-08	17	7	11	11	10	7	10	9	10	9	11	10	11	11	10	9	9	8	7	6	15	22	18	16	10.9	22.3	
18-Mar-08	12	18	21	20	19	19	18	14	11	14	10	13	13	14	12	15	14	8	11	13	14	14	11	12	14.2	21.4	
19-Mar-08	11	11	15	26	24	17	15	17	19	15	11	4	4	3	4	10	7	10	7	5	6	10	6	3	10.9	26.0	
20-Mar-08	11	5	4	3	3	2	2	2	2	1	2	3	3	4	6	5	4	3	3	3	2	6	4	5	3.7	11.1	
21-Mar-08	6	5	7	7	5	5	4	4	3	3	3	2	3	5	4	5	6	5	5	5	4	2	5	5	4.5	7.1	
22-Mar-08	3	2	3	5	14	13	14	12	12	N	5	9	12	11	10	11	9	10	12	11	10	10	8	6	9.2	13.7	
23-Mar-08	8	7	15	14	13	15	13	14	16	16	16	14	19	16	13	11	10	8	6	3	3	4	6	13	11.4	19.4	
24-Mar-08	12	6	5	16	14	19	20	16	8	15	25	15	6	6	11	10	7	16	15	18	11	15	14	14	13.0	25.4	
25-Mar-08	11	11	10	9	8	7	7	7	7	6	6	7	13	N	N	N	N	8	2	3	8	10	5	7	7.5	13.0	
26-Mar-08	7	4	6	3	2	2	3	2	1	2	N	5	7	10	16	12	10	9	9	6	9	14	19	9	7.2	19.0	
27-Mar-08	5	8	5	6	5	3	3	3	3	3	3	3	4	3	8	5	6	6	3	1	1	8	3	1	4.1	8.1	
28-Mar-08	3	2	2	3	4	3	4	4	4	4	4	7	N	7	N	12	4	3	4	3	4	6	5	4	4.4	11.6	
29-Mar-08	2	6	4	4	6	6	5	6	3	2	N	N	5	4	6	7	6	6	7	8	6	3	3	3	4.9	8.2	
30-Mar-08	2	3	4	4	5	2	3	3	3	3	3	4	7	10	12	15	14	11	11	11	7	5	3	2	6.1	14.7	
31-Mar-08	4	6	7	5	6	4	8	3	4	4	2	4	7	8	11	12	12	8	3	9	11	12	13	15	7.4	14.7	
1-hr Average	7.7	6.7	7.1	7.2	7.4	6.9	7.3	6.9	6.8	7.2	7.8	7.8	8.6	7.9	8.7	9.5	7.7	7.8	7.3	8.0	8.4	9.5	8.8	8.6			
Hourly Max	17.3	18.1	21.4	26.0	24.3	19.5	19.9	16.8	19.0	15.5	25.4	20.2	22.9	16.4	19.1	23.3	14.5	18.5	21.1	23.8	17.6	22.3	19.0	16.5			

PASZA - Portable-Spirit River Standard Deviation of Wind Direction Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

--

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	733 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	90.0%			
Percentile	99	95	75	50	25	5	1
	86.0	64.5	24.9	10.5	6.0	3.4	2.2

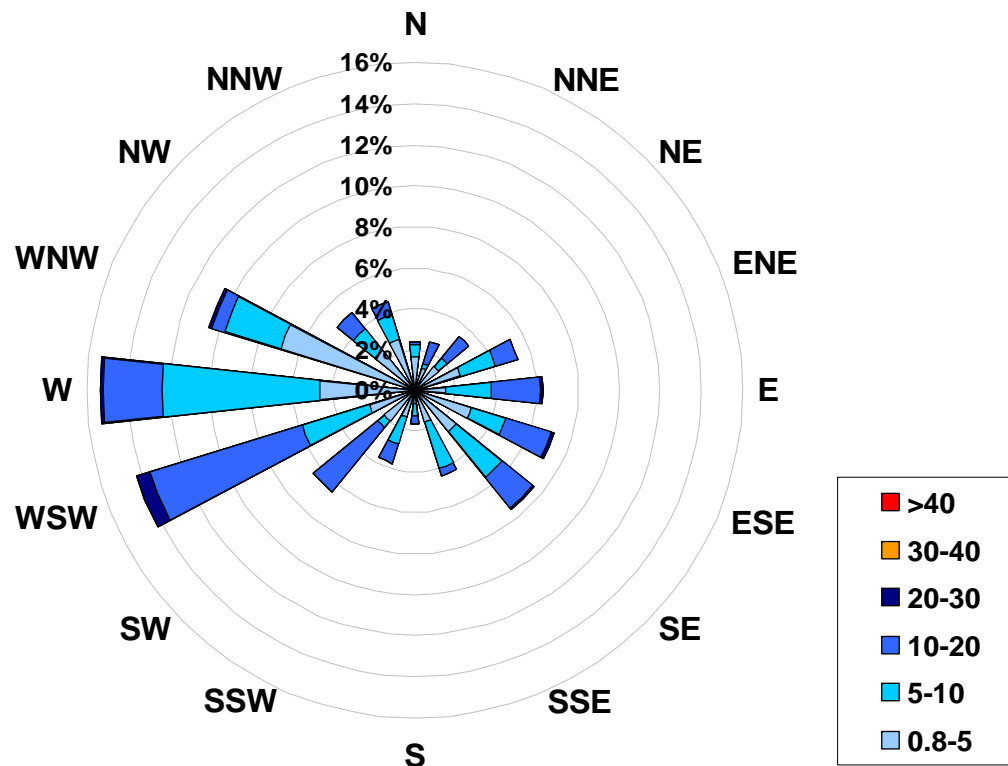
Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Mar-08	12	78	7	7	6	6	7	8	7	7	5	5	6	5	5	4	6	5	7	4	9	4	10	7		77.6	
2-Mar-08	4	4	19	22	28	49	17	26	10	3	4	12	23	19	36	69	13	25	51	39	16	27	25	33		69.1	
3-Mar-08	17	52	90	32	35	51	49	15	14	8	12	36	33	13	28	84	13	19	47	7	18	8	10	7		90.3	
4-Mar-08	4	5	7	65	25	36	24	55	75	58	37	73	53	93	21	11	14	10	37	34	8	7	10	6		92.6	
5-Mar-08	4	4	7	5	5	5	34	30	20	18	14	20	36	12	10	41	36	15	32	41	83	58	69	40		83.5	
6-Mar-08	43	68	26	11	10	19	43	64	57	23	91	59	50	40	73	7	7	5	5	5	7	6	6	6		91.2	
7-Mar-08	6	6	5	5	5	7	6	7	6	10	36	39	44	37	5	7	6	18	16	56	17	4	4	3		55.6	
8-Mar-08	17	39	42	53	36	14	4	4	4	12	7	5	4	4	5	6	12	10	3	3	4	4	5	5		52.6	
9-Mar-08	7	25	15	12	4	6	9	39	34	57	3	11	10	10	11	8	40	44	13	4	5	3	3	9		56.5	
10-Mar-08	7	7	9	5	6	2	6	6	6	13	N	12	20	81	50	5	6	34	21	15	15	38	52	35		81.5	
11-Mar-08	35	18	81	43	89	78	69	82	29	25	52	66	7	4	4	8	12	8	11	15	2	8	4	5		88.9	
12-Mar-08	5	15	11	8	14	9	18	12	10	9	9	7	10	10	11	10	7	12	9	13	12	5	3	10		17.7	
13-Mar-08	17	65	29	25	66	58	10	13	10	17	43	18	14	10	9	9	8	6	16	12	43	19	7	45		66.1	
14-Mar-08	26	43	48	12	9	12	9	19	14	17	10	15	17	21	49	87	90	73	8	7	6	13	8	8		90.0	
15-Mar-08	4	6	4	5	8	6	5	5	9	6	5	9	15	5	11	7	29	21	5	9	7	8	4	8		28.9	
16-Mar-08	9	6	9	14	77	31	26	25	12	12	14	6	3	6	3	3	7	4	3	8	5	36	60	17		76.9	
17-Mar-08	11	24	8	5	6	6	6	6	5	7	7	7	7	6	7	8	8	9	9	6	9	2	7	2		23.7	
18-Mar-08	5	7	3	3	4	3	3	8	4	6	4	6	4	5	7	6	5	9	15	5	2	4	2	10		14.9	
19-Mar-08	7	5	5	2	4	3	9	5	3	7	5	11	24	16	21	22	58	13	12	45	15	3	8	75		74.5	
20-Mar-08	11	32	47	53	42	33	52	36	15	56	36	52	10	17	7	6	16	25	7	35	26	8	16	9		56.1	
21-Mar-08	13	10	15	13	10	13	8	7	30	9	10	50	35	16	19	11	10	25	21	4	42	69	24	17		69.3	
22-Mar-08	90	40	29	17	2	4	4	4	4	N	28	33	6	24	5	3	2	5	5	5	5	4	8	6		89.9	
23-Mar-08	15	20	4	19	10	12	8	7	3	4	4	5	4	7	7	4	6	66	29	34	52	9	12	4		65.8	
24-Mar-08	8	14	34	11	6	2	2	15	7	8	7	7	11	34	8	8	55	12	36	19	6	2	8	4		55.2	
25-Mar-08	4	3	4	6	5	5	5	5	9	9	7	14	7	N	N	N	N	8	18	8	72	6	12	10		72.4	
26-Mar-08	13	29	43	13	49	44	13	23	81	21	N	8	19	12	4	11	7	3	4	39	65	17	7	12		80.6	
27-Mar-08	8	8	27	16	17	70	19	8	34	28	59	78	12	51	7	10	7	9	24	43	21	10	10	29		77.7	
28-Mar-08	12	10	11	11	12	21	24	12	12	9	12	6	N	9	N	10	13	46	23	14	53	20	10	58		57.7	
29-Mar-08	58	5	45	13	12	10	6	4	10	21	N	N	24	23	6	4	7	7	11	16	25	52	57	41		58.0	
30-Mar-08	20	17	26	24	39	40	6	11	53	20	23	24	5	6	3	3	2	2	7	3	5	28	39	57		57.3	
31-Mar-08	41	27	24	11	13	50	12	17	5	8	15	73	23	27	4	4	29	14	92	11	6	4	4	1		92.4	
Hourly Max	90	78	90	65	89	78	69	82	81	58	91	78	53	93	73	87	90	73	92	56	83	69	69	75			

1-hr Average Wind Rose (in km/hr) Located at the Portable-Spirit River Site for March 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	< 5		280
5	to 10		228
10	to 20		215
20	to 30		10
30	to 40		0
	> 40		0
Total Non-Zero Values			733

PASZA
Valleyview Station
Monthly Summary Tables, Graphs and
Roses

PASZA - Valleyview Sulphur Dioxide Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

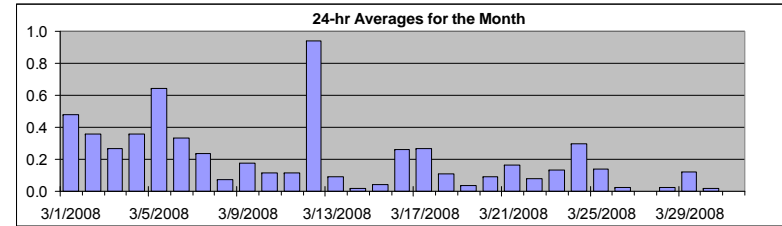
Sulphur Dioxide (SO₂)

Monitoring Dates: March 1, 2008 to April 1, 2008

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

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	6.4	ppb	12-Mar	4:00 5:00
Maximum 24-hr Average:	0.9	ppb	12-Mar	



AIC Time:	31 hrs	Operational Time:	710 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.7	0.6	0.2	0.1	0.0	0.0	0.0	0.2 ppb	0.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum			
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00	0:00	
1-Mar-08	A	4	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	3.7
2-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	1	1	0	0	0.4	0.8
3-Mar-08	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
4-Mar-08	A	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
5-Mar-08	A	0	1	1	1	0	0	0	0	0	0	1	4	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0.6	3.9
6-Mar-08	A	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	0	1	0	0	0	0.3	0.8	
7-Mar-08	A	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7	
8-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9	
9-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5	
10-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
11-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
12-Mar-08	A	1	2	5	6	3	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.9	6.4	
13-Mar-08	A	0	0	0	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
14-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	
15-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3	
16-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
17-Mar-08	A	0	0	0	0	0	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.7	
18-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
19-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	
20-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
21-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
22-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
23-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
24-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.3	0.5	
25-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
26-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	
27-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
28-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.5	
29-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
30-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	
31-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
Hourly Avg	N	0.3	0.2	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1			
Hourly Max	0.0	3.7	1.7	5.4	6.4	2.9	1.7	1.4	1.3	0.7	1.1	3.9	1.8	0.5	0.5	0.6	0.8	0.6	0.5	0.7	0.5	0.7	0.6	0.5					

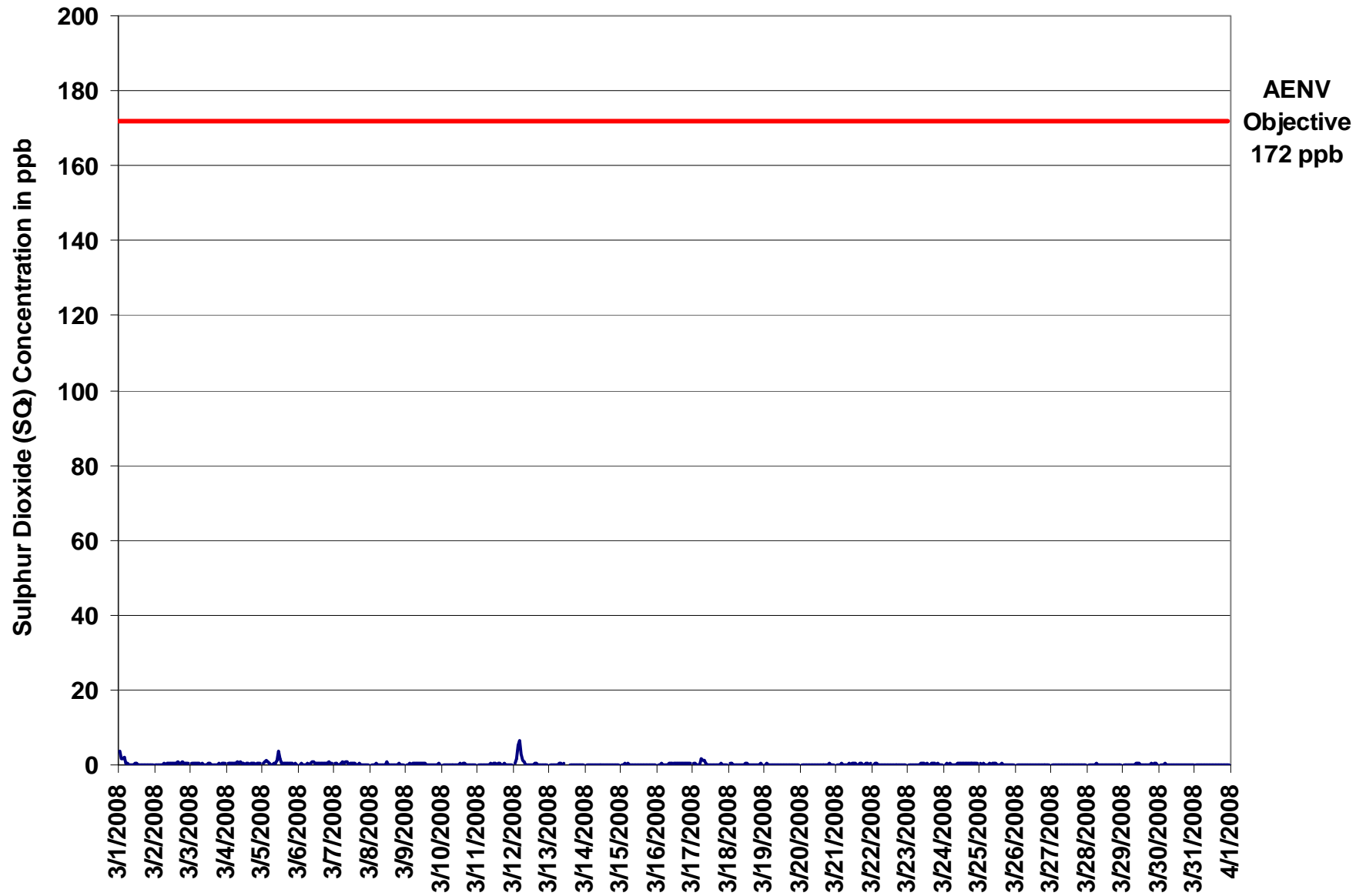


Figure 56. PASZA - Valleyview Sulphur Dioxide 1-hr Average Monthly Trend

Station: Valleyview
 Station Owner: PASZA

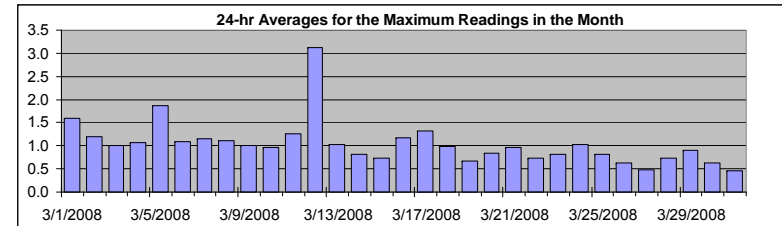
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	12.0	ppb	12-Mar	4:00 5:00
Maximum 24-hr Value:	3.1	ppb	12-Mar	



AIC Time:	31 hrs	Operational Time:	710 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.1	1.9	1.1	0.9	0.6	0.4	0.1	1.0 ppb	0.9 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum
1-Mar-08	A	5	4	5	5	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1.6	5.1
2-Mar-08	A	1	1	1	1	1	1	3	1	1	1	1	1	1	1	2	2	1	1	2	2	1	2	1	1.2	2.9
3-Mar-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.3
4-Mar-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1.1	2.5
5-Mar-08	A	1	2	4	2	1	1	1	2	1	5	6	6	1	1	1	1	1	1	1	1	1	1	1	1.9	6.3
6-Mar-08	A	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1.1	2.0
7-Mar-08	A	2	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1.2	2.0
8-Mar-08	A	1	1	1	1	1	1	1	1	1	1	1	6	2	1	2	1	1	1	1	1	1	1	1	1.1	5.7
9-Mar-08	A	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1.0	2.0
10-Mar-08	A	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1.0	1.1
11-Mar-08	A	1	1	1	1	1	0	1	1	1	1	2	2	1	3	3	1	1	1	1	1	1	1	1	1.3	3.0
12-Mar-08	A	3	4	9	12	11	7	3	2	2	1	1	1	1	1	3	2	1	1	1	1	1	1	1	3.1	12.0
13-Mar-08	A	1	1	1	1	1	1	1	1	1	2	C	C	C	1	1	1	1	1	1	1	1	1	1	1.0	2.1
14-Mar-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	0	1	0	0.8	1.7
15-Mar-08	A	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	0.7	1.6
16-Mar-08	A	1	1	1	1	1	1	1	2	1	1	1	2	2	2	2	1	2	2	2	1	2	1	2	1.2	1.6
17-Mar-08	A	1	2	1	1	2	5	4	3	2	0	0	1	0	1	0	0	0	0	1	0	1	0	1	1.3	4.8
18-Mar-08	A	1	1	1	1	1	0	1	1	1	1	2	2	1	2	1	1	1	1	1	1	1	2	1	1.0	1.6
19-Mar-08	A	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	0	0.7	1.5
20-Mar-08	A	0	0	0	1	1	1	1	1	1	1	1	2	1	2	2	1	2	1	1	1	1	1	2	0.8	1.6
21-Mar-08	A	1	1	1	1	1	1	1	1	2	1	2	1	2	1	1	2	1	1	1	1	1	2	2	1.0	1.6
22-Mar-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	0.7	1.4
23-Mar-08	A	0	0	0	0	1	1	1	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	0.8	1.6
24-Mar-08	A	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	2	1	1.0	1.9
25-Mar-08	A	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.8	1.6
26-Mar-08	A	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	1	0	0	1	1	1	1	0.6	1.1
27-Mar-08	A	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0.5	1.4
28-Mar-08	A	0	1	0	0	0	3	0	1	0	1	0	0	0	1	0	1	1	1	1	1	1	1	1	0.7	3.4
29-Mar-08	A	1	1	1	1	1	2	1	1	1	2	1	1	2	1	1	2	1	1	1	1	1	2	1	0.9	1.5
30-Mar-08	A	1	1	1	1	1	0	0	1	1	1	0	1	1	1	0	0	0	0	1	0	1	1	1	0.6	1.3
31-Mar-08	A	0	1	1	0	1	1	1	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	1	0.5	1.0
Hourly Avg	N	1.0	1.1	1.3	1.3	1.2	1.2	1.1	1.0	1.0	1.1	1.1	1.3	1.0	1.0	1.1	0.9	0.9	0.8	0.9	0.8	0.8	1.0	0.9		
Hourly Max	0.0	5.0	4.1	9.0	12.0	11.0	6.9	3.5	3.4	2.4	4.9	5.9	6.3	1.7	3.0	3.1	2.1	1.8	2.0	1.9	1.9	1.6	2.0	1.6		

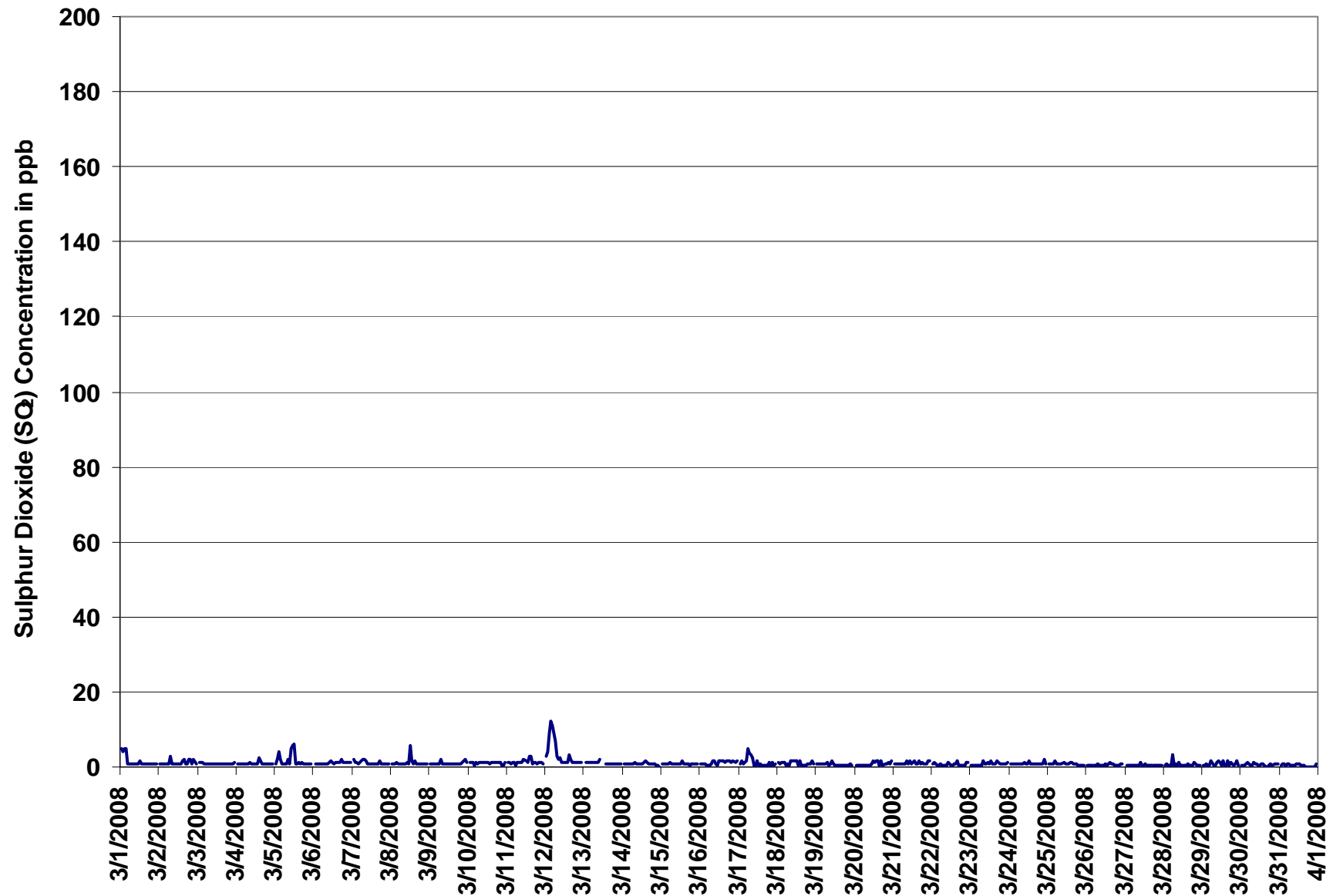
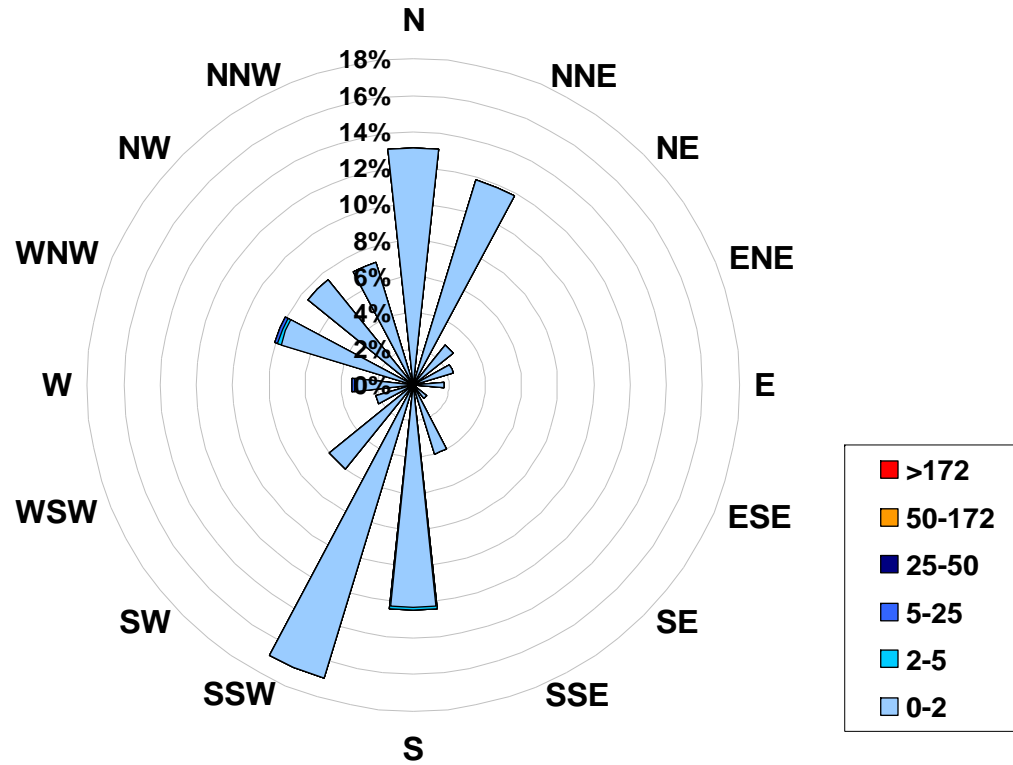


Figure 57. PASZA - Valleyview Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Valleyview Site for March 2008



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	< 2		705
2	to 5		3
5	to 25		2
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			710

PASZA - Valleyview Hydrogen Sulphide Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

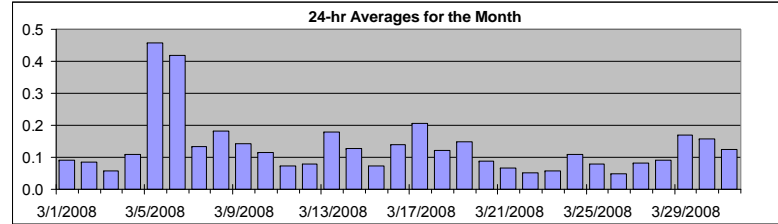
Hydrogen Sulphide (H₂S)

Monitoring Dates: March 1, 2008 to April 1, 2008

Objective Limit: Alberta Environment: **1-hr 10 ppb** **24-hr 3 ppb**

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	7.7 ppb	5-Mar	23:00	0:00
Maximum 24-hr Value:	0.5 ppb	5-Mar		



AIC Time:	31 hrs	Operational Time:	708 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.5	0.2	0.1	0.1	0.1	0.0	0.0	0.1 ppb	0.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
2-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
3-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
4-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
5-Mar-08	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	0.5	7.7
6-Mar-08	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1	0	0.4	6.7
7-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
8-Mar-08	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
9-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
10-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
11-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
12-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
13-Mar-08	A	0	0	0	0	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0.2	0.5
14-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
15-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
16-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
17-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0.2	1.7
18-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
19-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
20-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
21-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
22-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
23-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
24-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
25-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
26-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
27-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
28-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
29-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
30-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
31-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
Hourly Avg	N	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.4		
Hourly Max	0.0	0.8	0.3	0.5	0.4	0.3	0.3	0.6	0.3	0.2	0.3	0.2	1.7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	6.7	0.6	7.7		

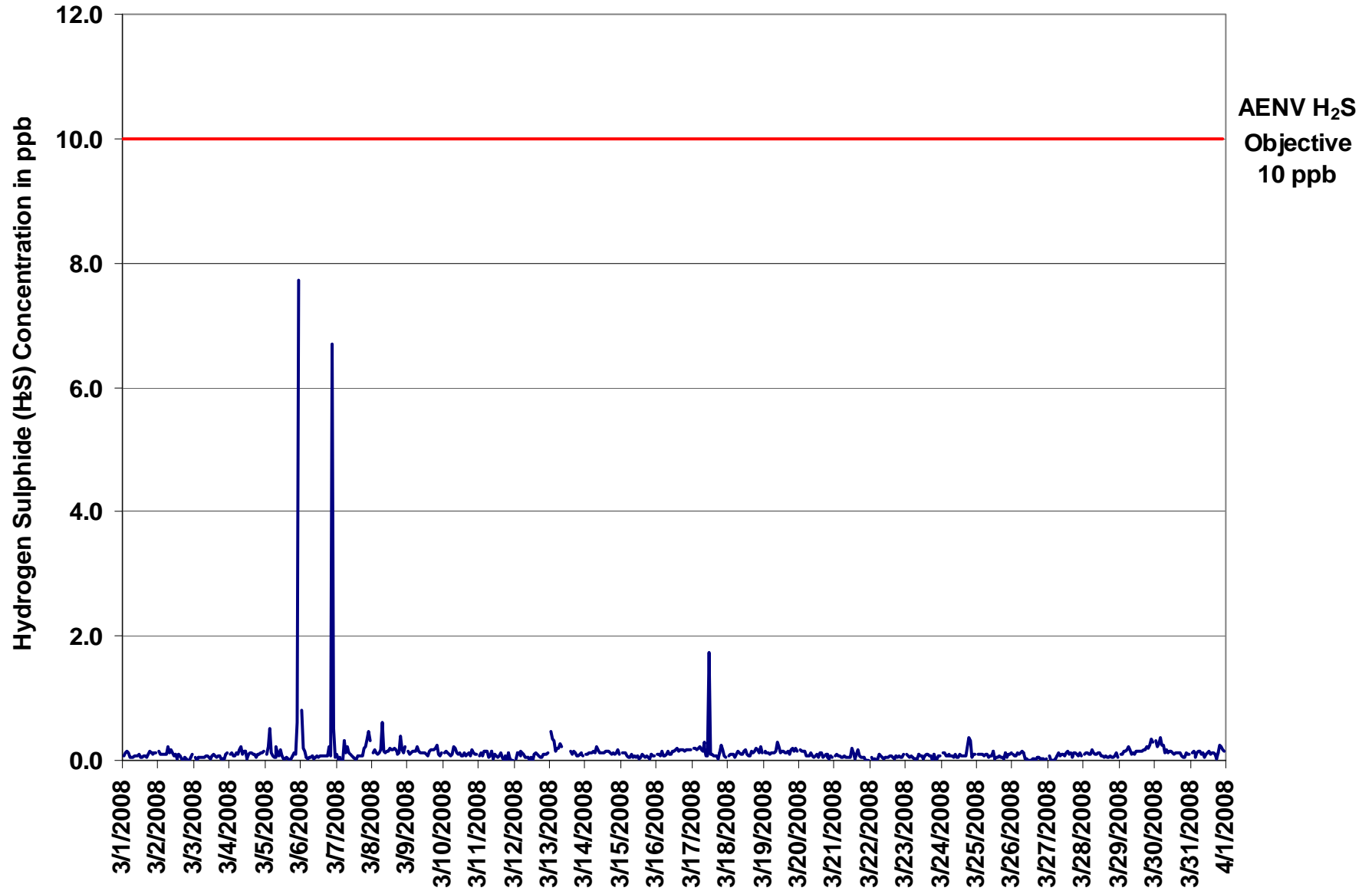


Figure 58. PASZA - Valleyview Hydrogen Sulphide 1-hr Average Monthly Trend

Station: Valleyview
 Station Owner: PASZA

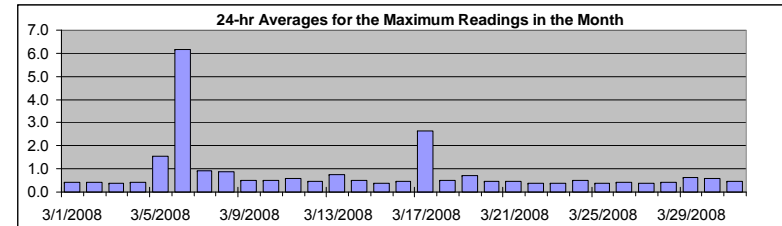
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Hydrogen Sulphide (H₂S)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Value:	103.6	ppb	6-Mar	21:00 22:00
Maximum 24-hr Value:	6.2	ppb	6-Mar	



AIC Time:	31 hrs	Operational Time:	708 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.0	1.1	0.5	0.4	0.4	0.3	0.3	0.8 ppb	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 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-Mar-08	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
2-Mar-08	A	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.1
3-Mar-08	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
4-Mar-08	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
5-Mar-08	A	0	1	5	1	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	1	0	5	16	1.5	15.8
6-Mar-08	A	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	104	28	0	6.2	103.6	
7-Mar-08	A	0	0	0	0	0	4	0	1	0	0	0	0	0	0	0	1	0	1	1	3	4	1	0.9	4.2	
8-Mar-08	A	0	1	0	0	1	0	5	0	1	1	1	1	0	1	1	1	1	0	0	1	1	1	3	0.9	5.4
9-Mar-08	A	1	0	0	1	0	0	1	1	1	0	0	1	0	0	1	1	0	0	0	1	0	0	0	0.5	1.2
10-Mar-08	A	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0.5	1.3
11-Mar-08	A	0	2	0	1	1	1	0	0	2	0	1	0	0	0	1	0	1	0	0	1	0	0	0	0.6	2.0
12-Mar-08	A	0	1	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.5	1.4
13-Mar-08	A	2	2	1	0	1	1	1	1	C	C	C	C	C	1	0	1	0	0	0	0	1	1	1	0.7	2.5
14-Mar-08	A	1	0	1	1	1	1	0	1	1	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0.5	0.8
15-Mar-08	A	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0.4	0.6
16-Mar-08	A	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	1	0	0	0	0	1	0.5	0.6
17-Mar-08	A	1	0	0	1	1	0	0	1	1	0	1	48	0	1	0	1	0	0	1	1	1	0	0	2.6	47.8
18-Mar-08	A	1	0	1	0	0	0	1	0	0	0	1	1	0	0	0	0	1	1	1	0	0	1	0	0.5	1.4
19-Mar-08	A	0	0	0	0	0	0	0	0	0	6	1	0	0	0	0	0	0	0	1	1	0	1	1	0.7	5.9
20-Mar-08	A	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0.4	0.6
21-Mar-08	A	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0.5	1.2
22-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.4	0.5
23-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0.4	0.6
24-Mar-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0.5	1.1
25-Mar-08	A	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
26-Mar-08	A	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.5
27-Mar-08	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.4	0.5
28-Mar-08	A	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7
29-Mar-08	A	1	0	1	1	1	1	1	1	0	0	0	1	1	0	0	0	1	0	0	1	1	1	1	0.6	1.5
30-Mar-08	A	1	1	1	1	1	1	0	1	0	1	0	1	0	0	1	0	0	1	1	0	1	0	1	0.6	1.5
31-Mar-08	A	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0.5	0.6
Hourly Avg	N	0.6	0.5	0.7	0.5	0.5	0.6	0.7	0.6	0.5	0.6	0.4	2.0	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5	3.9	1.6	1.0		
Hourly Max	0.0	2.1	2.5	5.0	0.9	1.4	4.2	5.4	1.5	2.0	5.9	0.7	47.8	1.2	0.6	0.6	0.8	1.3	0.9	1.0	1.4	103.6	28.0	15.8		

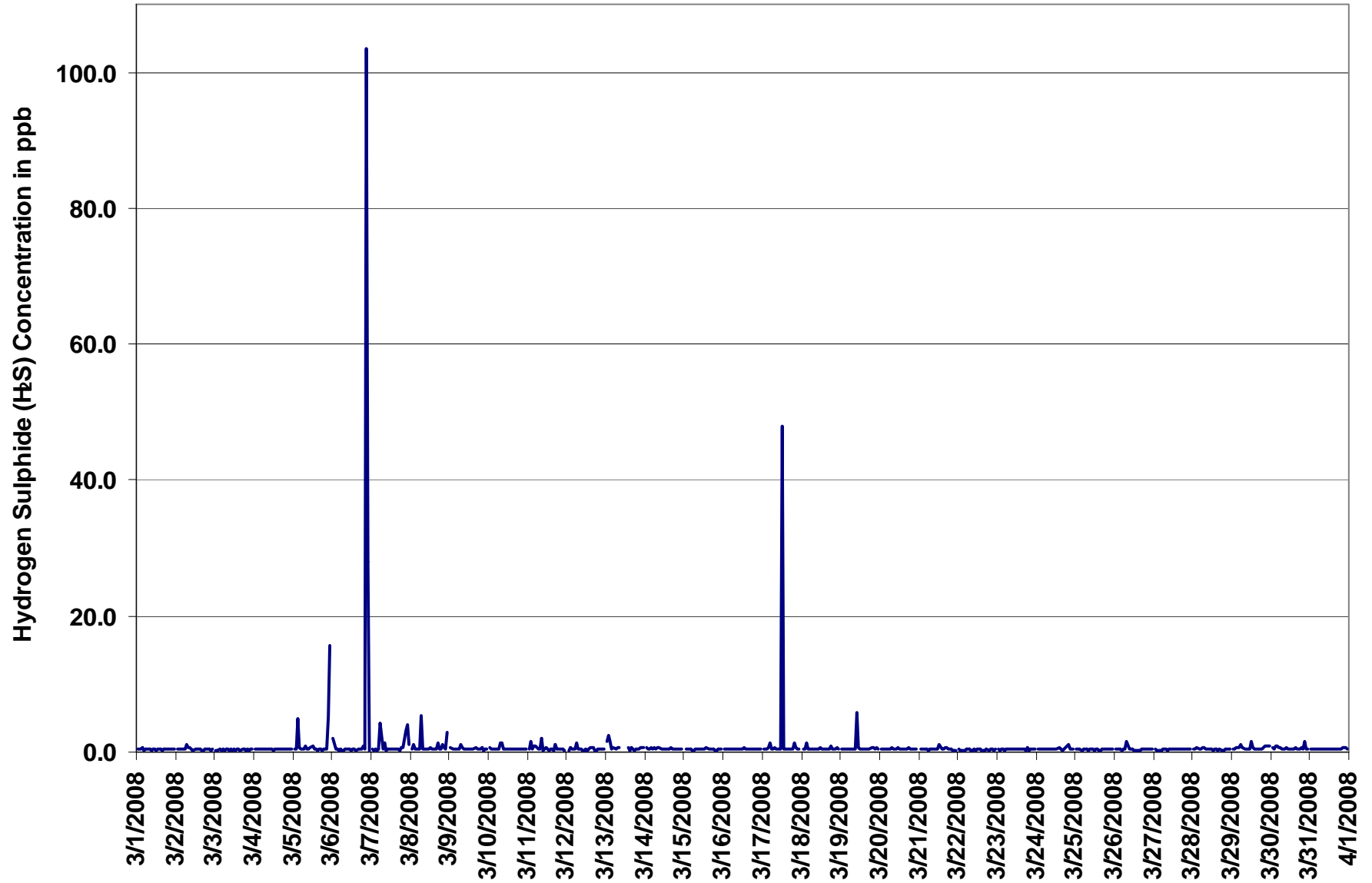
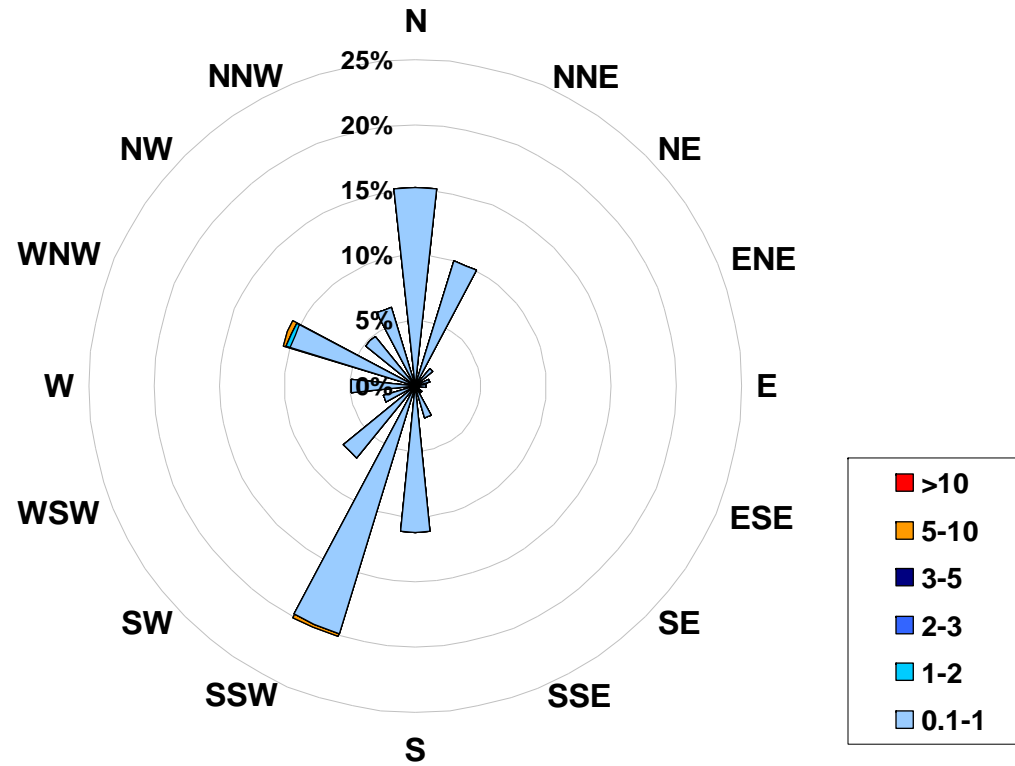


Figure 59. PASZA - Valleyview Hydrogen Sulphide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Hydrogen Sulphide (in ppb) Located at the Valleyview Site for March 2008



Calms: 0%

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

PASZA - Valleyview Relative Humidity Monthly Summary

Station: Valleyview
 Station Owner: PASZA

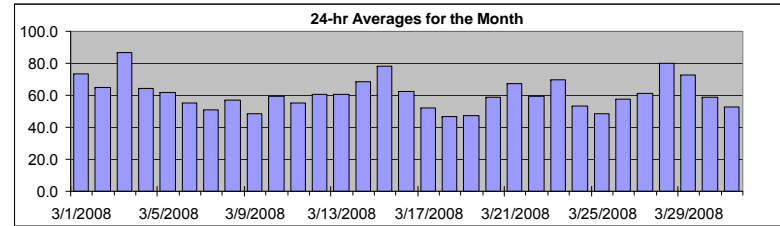
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	96.3	%	3-Mar	7:00 8:00
Maximum 24-hr Value:	86.6	%	3-Mar	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	94.4	88.4	76.5	60.9	48.1	31.9	26.7	61.1 %	60.9 %

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-Mar-08	48	52	72	72	73	76	75	75	74	75	80	79	73	72	73	76	80	80	79	79	79	77	74	72	73.6	80.3
2-Mar-08	73	75	74	74	77	78	79	77	77	73	66	62	60	55	54	53	53	53	54	54	59	60	60	63	65.1	78.6
3-Mar-08	62	66	86	87	90	94	96	96	96	95	93	92	91	88	88	84	90	88	86	83	81	82	83	80	86.6	96.3
4-Mar-08	80	79	79	79	79	78	80	83	81	76	69	65	57	53	54	47	44	45	50	54	50	53	55	51	64.2	83.1
5-Mar-08	52	58	61	62	65	69	72	78	75	65	58	53	52	52	51	51	49	48	49	60	68	74	77	81	61.6	81.4
6-Mar-08	84	83	87	86	85	86	86	85	80	71	62	52	41	33	28	25	23	25	24	29	34	35	35	38	55.0	86.9
7-Mar-08	38	42	48	51	53	55	56	58	55	52	50	48	44	41	41	40	36	39	43	54	62	68	76	75	51.1	76.4
8-Mar-08	75	75	77	81	84	83	84	85	78	69	60	49	42	40	38	35	38	36	29	35	38	39	46	54	57.1	84.9
9-Mar-08	60	60	63	65	64	64	66	66	63	53	47	41	36	34	32	28	29	29	30	35	46	50	51	56	48.7	66.5
10-Mar-08	58	62	69	72	73	77	78	77	72	66	57	55	49	43	42	41	42	44	47	53	57	62	63	64	59.2	78.0
11-Mar-08	62	64	73	72	74	82	74	67	65	58	57	52	49	48	42	32	31	41	40	45	47	46	50	54	55.2	81.7
12-Mar-08	56	56	51	46	45	45	47	55	53	54	62	70	57	60	68	59	61	63	56	69	79	79	79	79	60.4	79.4
13-Mar-08	77	80	79	75	71	65	68	69	74	62	55	59	61	54	49	54	46	42	43	49	53	55	56	59	60.6	79.7
14-Mar-08	63	67	70	73	76	79	81	84	80	75	66	62	56	51	51	52	54	58	61	64	68	82	85	85	68.5	85.3
15-Mar-08	85	85	85	83	82	80	81	81	80	78	75	73	72	70	72	72	75	76	76	78	78	78	79	81	78.1	85.4
16-Mar-08	82	82	82	82	80	79	78	77	74	71	61	53	51	46	39	34	32	36	41	49	65	73	63	64	62.3	82.4
17-Mar-08	67	67	69	69	70	73	60	58	54	50	46	43	39	41	41	39	42	41	40	42	44	48	52	53	52.0	72.7
18-Mar-08	54	59	62	62	61	62	65	61	55	47	39	34	33	34	34	33	30	29	30	35	43	49	53	55	46.7	65.4
19-Mar-08	54	53	53	54	52	54	59	60	55	46	40	34	32	34	37	34	35	33	32	38	51	60	66	65	47.1	66.1
20-Mar-08	65	74	76	81	81	77	85	82	70	58	53	50	50	45	39	33	31	39	42	46	49	53	65	69	58.9	85.1
21-Mar-08	70	73	75	79	82	87	91	90	81	74	62	59	57	53	48	49	46	46	52	58	65	68	76	80	67.5	90.9
22-Mar-08	84	89	91	88	88	90	91	89	83	75	66	50	37	32	31	28	25	23	23	33	42	51	55	61	59.4	91.3
23-Mar-08	65	67	69	72	76	81	78	77	75	68	67	63	54	50	50	52	49	51	56	91	87	91	92	94	69.8	94.4
24-Mar-08	95	95	91	88	85	86	76	78	71	57	36	30	30	31	29	27	27	28	30	32	34	40	42	45	53.5	95.3
25-Mar-08	52	54	56	60	62	63	64	58	52	48	45	46	42	39	34	31	34	33	34	38	44	52	59	65	48.6	65.2
26-Mar-08	67	66	69	75	82	85	87	81	75	69	65	61	56	48	35	34	34	34	35	40	41	43	46	48	57.3	86.7
27-Mar-08	50	54	56	55	57	56	59	63	57	59	60	71	74	61	55	47	49	50	50	62	77	79	81	84	61.0	84.2
28-Mar-08	83	86	90	89	90	92	92	95	94	90	78	74	70	62	66	63	63	65	71	77	79	81	83	85	79.9	94.7
29-Mar-08	87	89	86	85	91	91	89	88	84	81	76	73	67	62	58	56	55	54	54	57	60	65	70	74	73.0	91.1
30-Mar-08	80	84	87	87	86	86	84	80	73	66	66	61	49	44	38	32	26	28	32	33	38	43	48	54	58.6	87.0
31-Mar-08	63	68	76	79	78	80	83	71	62	54	48	42	36	36	32	30	34	29	31	36	43	45	50	56	52.5	82.9
Hourly Avg	67.5	69.8	72.9	73.7	74.6	75.9	76.3	75.7	71.5	65.7	60.1	56.7	52.2	48.8	46.8	44.2	44.0	44.7	45.8	51.9	56.7	60.7	63.6	66.0		
Hourly Max	95.3	95.1	91.2	88.7	90.8	94.5	96.0	96.3	95.9	95.2	92.7	92.0	90.7	87.6	88.2	83.7	90.0	87.5	85.8	90.9	87.3	90.8	91.9	94.4		

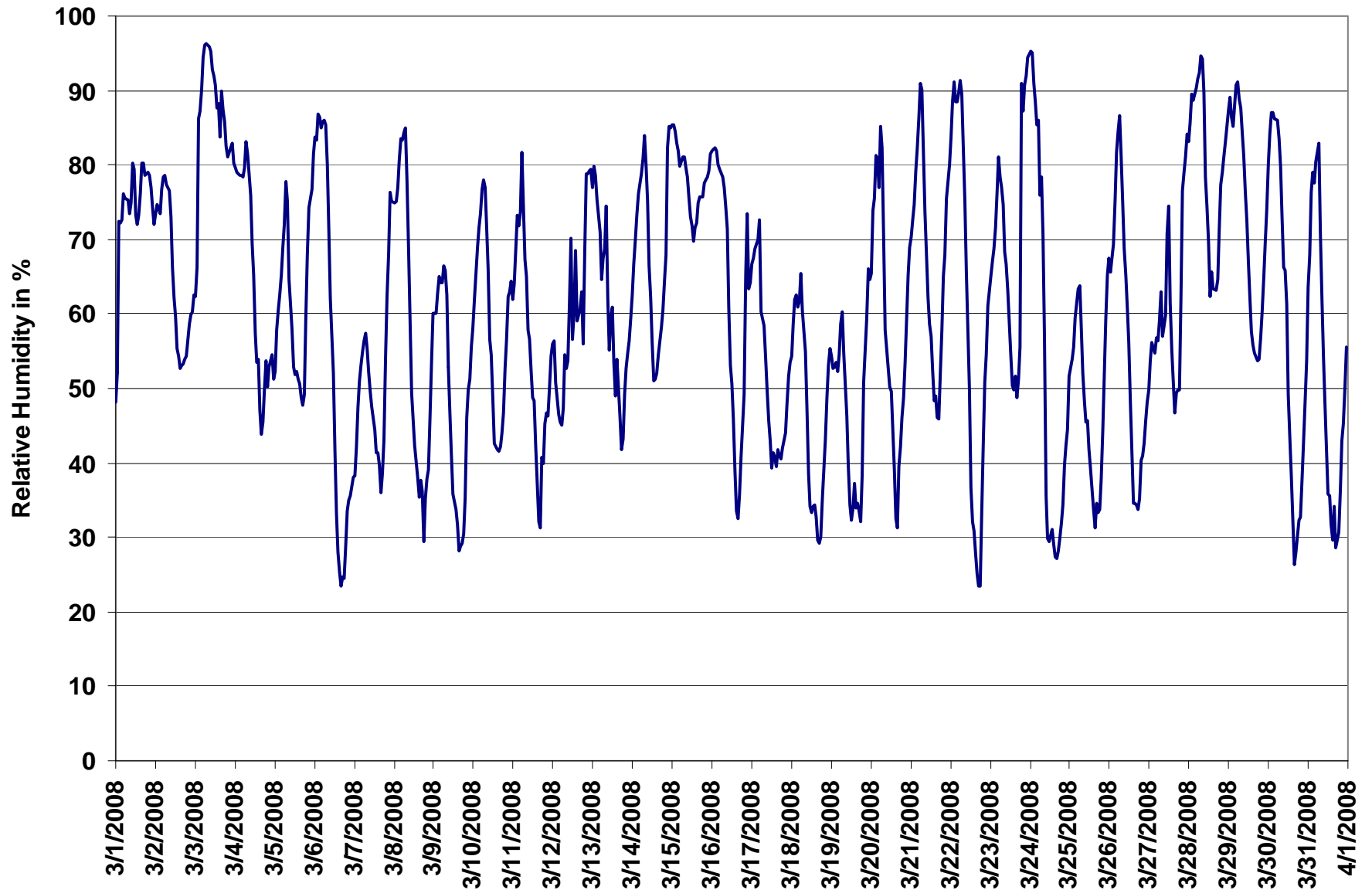


Figure 60. PASZA - Valleyview Relative Humidity 1-hr Average Monthly Trend

PASZA - Valleyview Temperature Monthly Summary

Station: Valleyview
 Station Owner: PASZA

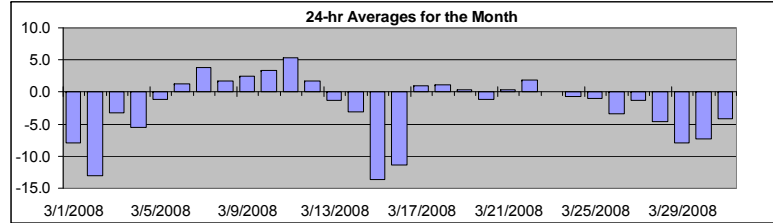
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	11.5	°C	6-Mar	16:00 17:00
Maximum 24-hr Value:	5.4	°C	11-Mar	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	9.7	7.3	2.3	-1.5	-5.3	-14.6	-22.8	-2.2 °C	-1.5 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Mar-08	4	3	2	2	2	-1	-3	-5	-6	-7	-8	-9	-9	-10	-11	-12	-13	-14	-14	-15	-15	-16	-18	-19	-8.0	3.9	
2-Mar-08	-20	-21	-21	-22	-23	-24	-25	-25	-24	-22	-20	-17	-12	-9	-7	-5	-3	-2	-2	-1	-2	-1	-1	-2	-13.0	-1.2	
3-Mar-08	-2	-1	-2	-1	-2	-2	-1	-2	-1	-1	0	1	1	2	1	1	-3	-5	-7	-9	-10	-11	-12	-3.2	1.9		
4-Mar-08	-13	-13	-14	-14	-14	-13	-12	-12	-11	-9	5	-3	-1	0	1	2	2	1	1	0	-1	-2	-2	-2	-5.6	1.8	
5-Mar-08	-2	-2	-2	-2	-3	-4	-5	-6	-6	-3	-1	1	2	2	2	3	3	3	3	0	-2	-3	-4	-5	-1.1	3.5	
6-Mar-08	-6	-6	-7	-7	-7	-7	-7	-7	-6	-4	-2	1	5	8	10	11	11	11	10	8	6	6	5	5	1.2	11.5	
7-Mar-08	5	5	5	4	3	2	2	1	2	3	4	5	6	7	7	8	9	8	6	3	1	0	-2	-2	3.8	8.9	
8-Mar-08	-3	-3	-3	-4	-5	-5	-6	-6	-4	-2	1	5	8	9	10	10	8	8	7	6	5	4	2	-1	1.7	9.8	
9-Mar-08	-2	-2	-3	-4	-3	-3	-4	-4	-3	0	2	4	6	7	9	9	9	8	8	6	4	6	5	4	2.5	9.4	
10-Mar-08	3	2	0	-1	-1	-2	-2	-2	-1	0	3	4	6	8	9	9	8	8	7	6	5	4	4	3	3.4	8.8	
11-Mar-08	4	4	3	3	3	2	2	2	3	5	7	8	9	9	9	10	10	8	7	6	4	5	4	3	5.4	9.8	
12-Mar-08	2	3	4	4	4	4	3	2	2	1	1	0	2	1	1	2	1	1	2	1	0	0	0	-1	1.7	4.4	
13-Mar-08	-1	-1	-2	-2	-3	-3	-4	-4	-4	-3	-1	-1	-1	0	1	1	2	2	1	0	-1	-2	-3	-4	-1.3	2.0	
14-Mar-08	-5	-5	-6	-6	-6	-7	-7	-8	-7	-5	-3	-2	0	1	1	1	1	1	1	0	-1	-3	-5	-8	-3.2	1.4	
15-Mar-08	-9	-10	-11	-11	-11	-12	-13	-14	-14	-14	-14	-14	-14	-14	-14	-14	-15	-15	-15	-15	-15	-15	-16	-17	-17	-13.7	-9.2
16-Mar-08	-18	-18	-19	-21	-22	-23	-24	-24	-20	-16	-13	-11	-9	-6	-4	-3	-2	-2	-2	-2	-3	-4	-4	-4	-11.4	-1.6	
17-Mar-08	-4	-4	-5	-5	-5	-5	0	1	2	3	4	4	5	4	4	5	4	5	4	3	3	1	0	-1	0.9	4.6	
18-Mar-08	-1	-2	-2	-3	-3	-3	-4	-4	-2	1	4	5	5	5	6	6	7	6	5	4	1	-1	-1	-2	1.1	6.5	
19-Mar-08	-2	-1	-2	-2	-2	-2	-3	-4	-1	1	3	4	4	4	4	4	4	4	4	2	-1	-2	-4	-4	0.4	4.5	
20-Mar-08	-4	-6	-6	-7	-8	-8	-9	-8	-5	-2	0	1	2	3	4	5	6	5	4	2	1	1	1	0	-1.2	5.6	
21-Mar-08	0	-1	-1	-3	-4	-5	-6	-6	-4	-2	1	2	2	3	4	5	5	5	4	3	2	2	1	-1	0.3	5.5	
22-Mar-08	-1	-2	-2	-3	-3	-4	-5	-5	-3	-1	2	4	6	7	7	8	8	8	7	6	4	3	2	1	1.8	8.2	
23-Mar-08	0	-1	-1	-1	-2	-3	-3	-3	-2	-1	0	1	2	3	4	4	4	4	3	0	0	-1	-1	-2	0.1	4.3	
24-Mar-08	-3	-4	-5	-5	-6	-6	-6	-6	-4	-2	2	3	3	3	4	4	4	4	4	2	1	-1	-1	-1	-0.7	4.3	
25-Mar-08	-2	-4	-4	-5	-5	-5	-5	-4	-2	1	2	2	3	3	3	3	3	3	2	1	-1	-2	-4	-5	-0.9	3.2	
26-Mar-08	-6	-7	-7	-8	-9	-10	-11	-9	-8	-7	-4	-2	0	2	4	3	3	3	2	0	-1	-1	-3	-3	-3.4	3.8	
27-Mar-08	-3	-4	-4	-3	-4	-4	-4	-4	-3	-2	-1	-1	0	1	2	2	2	2	1	0	-1	-1	-1	-2	-1.4	2.1	
28-Mar-08	-3	-3	-4	-5	-5	-7	-8	-7	-6	-5	-4	-4	-3	-2	-2	-2	-2	-3	-4	-5	-6	-6	-7	-7	-4.6	-2.1	
29-Mar-08	-7	-7	-8	-9	-10	-11	-12	-11	-11	-10	-9	-8	-6	-6	-5	-5	-4	-4	-5	-6	-7	-9	-10	-11	-7.9	-4.3	
30-Mar-08	-12	-13	-14	-15	-16	-17	-17	-14	-12	-9	-7	-5	-2	-2	-1	0	1	1	0	-2	-3	-4	-6	-7	-7.3	0.7	
31-Mar-08	-8	-9	-10	-11	-11	-12	-13	-10	-7	-4	-2	0	2	2	2	2	2	2	2	0	-2	-3	-4	-4	-4.1	2.3	
Hourly Avg	-3.8	-4.3	-4.9	-5.4	-5.8	-6.4	-6.8	-6.6	-5.5	-3.7	-1.9	-0.7	0.7	1.6	2.1	2.5	2.5	2.1	1.5	0.1	-1.1	-1.9	-2.7	-3.5			
Hourly Max	5.3	5.4	4.6	4.4	4.1	3.8	3.1	2.3	2.6	5.4	7.0	8.2	8.6	8.9	9.9	10.7	11.5	10.7	9.7	7.7	6.0	5.9	5.5	4.9			

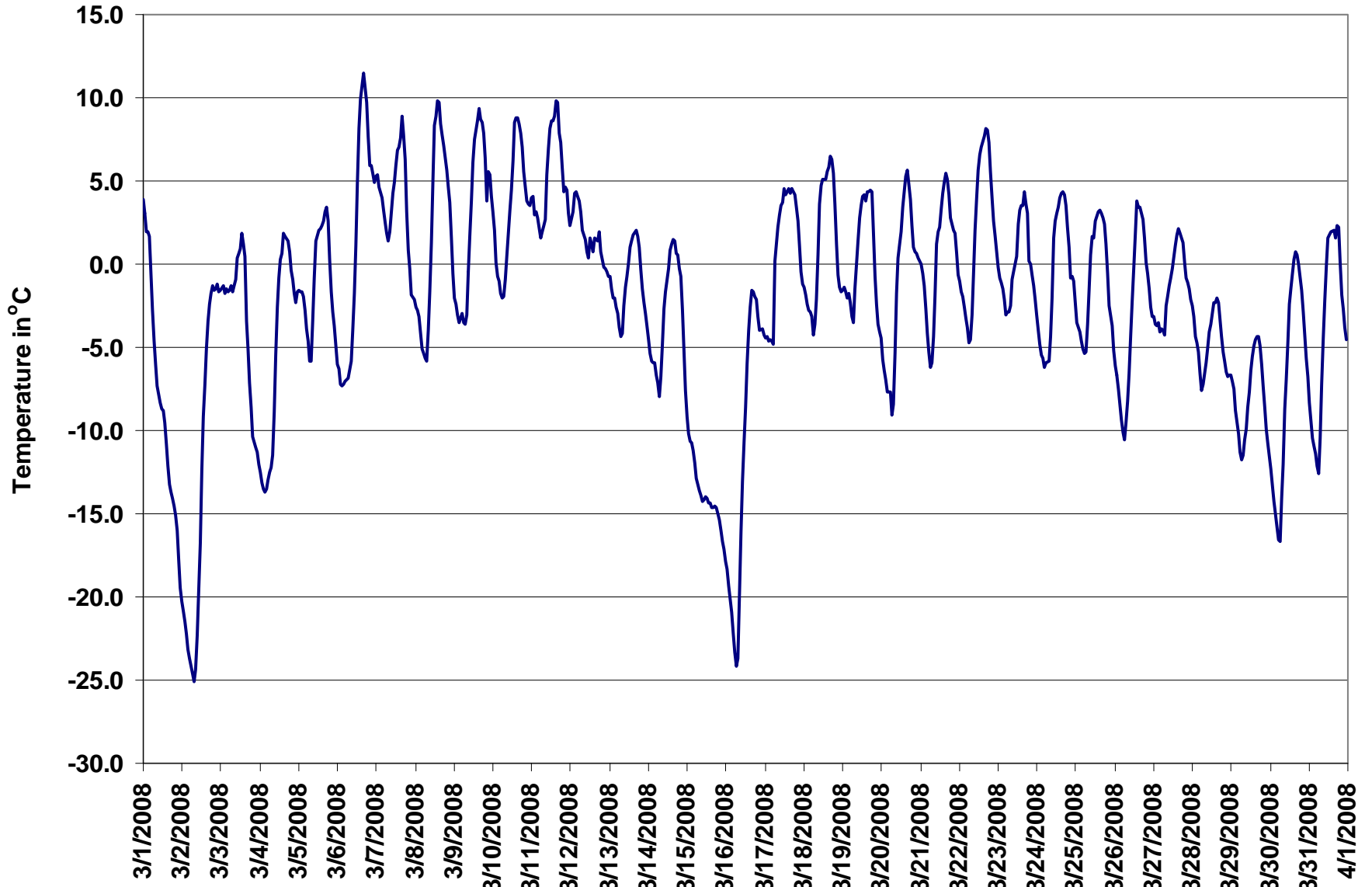


Figure 61. PASZA - Valleyview Temperature 1-hr Average Monthly Trend

PASZA - Valleyview Scalar Wind Speed Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

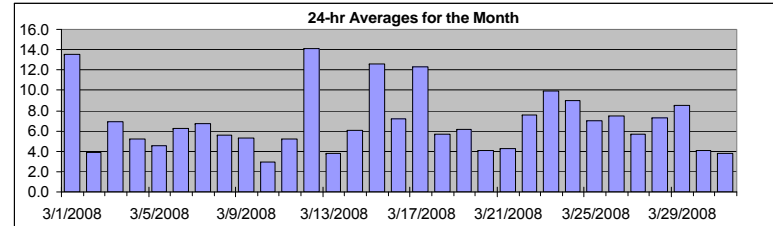
Wind Speed (WSs)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	25.7	km/hr	12-Mar	8:00 9:00
Maximum 24-hr Value:	14.1	km/hr	12-Mar	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	20.9	15.7	9.8	5.4	3.2	1.6	1.1	6.9 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max	
Hour Start	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-Mar-08	10	11	21	22	11	14	13	13	12	18	16	13	16	14	13	14	13	12	9	9	11	12	14	14	13.5	21.7
2-Mar-08	11	8	7	3	2	1	1	1	1	2	3	4	5	5	2	4	5	4	5	4	3	5	3	3	3.9	10.8
3-Mar-08	4	4	4	4	3	4	3	3	1	3	2	4	5	3	5	10	14	13	15	13	14	11	12	11	6.9	14.6
4-Mar-08	7	5	4	3	1	2	3	3	2	3	3	5	4	5	5	10	13	12	10	9	6	2	3	6	5.2	12.6
5-Mar-08	5	9	13	14	10	6	3	2	2	2	2	2	7	7	4	5	4	4	1	2	2	1	2	1	4.6	13.6
6-Mar-08	3	3	2	2	3	5	8	8	7	10	13	10	7	5	3	2	4	5	9	9	7	11	7	9	6.3	12.6
7-Mar-08	11	11	11	12	9	9	9	7	7	11	11	13	7	6	7	4	2	2	2	2	3	1	2	2	6.7	13.2
8-Mar-08	3	5	1	1	1	1	2	2	3	4	4	5	7	9	8	9	11	9	14	12	8	7	4	2	5.5	13.6
9-Mar-08	3	5	3	3	6	7	5	4	4	6	7	9	9	7	4	3	2	3	3	4	6	9	10	6	5.3	10.3
10-Mar-08	5	5	4	5	3	2	3	1	1	3	3	3	2	2	2	2	2	3	3	3	4	5	4	2	2.9	5.2
11-Mar-08	3	2	4	3	2	2	4	6	6	3	4	3	5	8	6	11	13	10	7	3	4	6	6	4	5.2	13.1
12-Mar-08	4	7	12	17	15	17	20	25	26	26	25	16	16	23	16	17	18	9	8	9	9	2	2	2	14.1	25.7
13-Mar-08	2	3	2	1	2	2	2	2	1	1	4	4	5	4	6	7	6	6	6	6	5	4	5	4	3.7	7.0
14-Mar-08	7	6	6	4	2	4	4	2	1	4	3	5	11	10	11	8	5	5	6	6	4	8	11	13	6.0	13.2
15-Mar-08	11	14	11	10	13	16	14	15	14	15	15	16	16	17	17	17	14	12	11	10	10	6	5	3	12.6	17.4
16-Mar-08	2	2	1	2	2	3	3	2	2	7	12	12	12	9	8	8	7	8	7	8	15	13	12	15	7.2	15.2
17-Mar-08	12	10	7	4	3	2	13	14	17	20	21	19	20	21	19	19	15	12	12	12	10	5	3	4	12.3	21.2
18-Mar-08	4	4	3	4	6	4	4	5	5	6	6	10	13	11	7	8	4	6	4	3	2	5	4	4	5.6	12.9
19-Mar-08	5	5	7	6	7	6	6	5	4	7	13	15	12	9	10	8	6	5	2	2	2	3	2	2	6.2	14.7
20-Mar-08	3	1	2	2	2	3	2	2	2	3	2	4	7	6	6	5	7	8	7	5	4	3	4	7	4.0	7.7
21-Mar-08	5	3	3	3	3	2	3	1	2	2	3	4	6	5	5	5	6	5	5	3	5	8	7	9	4.3	9.0
22-Mar-08	4	4	4	7	6	6	2	5	6	6	8	11	9	8	9	9	9	8	7	9	10	11	13	11	7.6	13.5
23-Mar-08	6	5	6	8	9	11	10	12	15	15	20	15	15	16	16	9	9	10	10	11	4	3	3	2	9.9	19.7
24-Mar-08	3	4	3	3	4	5	5	5	6	6	18	18	17	12	14	16	13	13	12	10	9	3	8	10	9.0	18.3
25-Mar-08	5	4	4	5	4	4	5	2	3	7	15	13	13	13	14	14	14	11	3	2	4	3	3	2	7.0	15.3
26-Mar-08	2	2	2	2	2	2	3	2	6	9	10	12	16	14	12	13	12	14	13	10	8	5	5	4	7.5	15.8
27-Mar-08	4	5	4	4	4	3	2	2	8	11	7	8	7	10	9	9	5	4	2	6	6	6	5	4	5.7	11.0
28-Mar-08	7	3	5	4	2	4	5	4	3	4	7	7	7	11	9	9	11	12	13	11	11	9	9	6	7.3	12.5
29-Mar-08	10	11	9	6	7	7	6	7	8	8	6	8	9	9	13	16	15	13	9	7	6	5	4	4	8.5	16.2
30-Mar-08	3	2	2	1	1	1	1	1	3	3	5	6	5	7	7	6	7	8	5	6	5	6	4	2	4.1	8.2
31-Mar-08	2	3	1	2	2	2	2	4	5	5	4	4	5	7	5	4	6	4	3	4	3	4	5	4	3.8	6.8
1-hr Average	5.3	5.4	5.3	5.3	4.8	5.1	5.3	5.5	6.0	7.5	8.7	9.0	9.5	9.5	8.7	9.2	8.8	8.0	7.2	6.7	6.5	5.9	5.9	5.6		
Hourly Max	11.7	14.1	20.7	21.7	15.0	17.3	20.2	25.4	25.7	25.6	24.8	19.4	19.9	22.7	18.8	18.8	17.6	13.9	14.6	12.7	15.0	12.8	13.7	15.2		

PASZA - Valleyview Vector Wind Speed Monthly Summary

Station: Valleyview
 Station Owner: PASZA

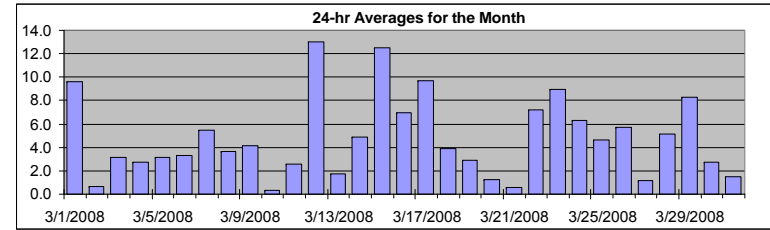
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Maximum 1-hr Average:	25.3	km/hr	12-Mar	8:00 9:00
Maximum 24-hr Value:	13.0	km/hr	12-Mar	



Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	20.3	15.5	9.4	5.2	2.8	1.0	0.5	4.0 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Mar-08	10	11	19	22	11	14	12	13	12	18	16	13	16	14	13	14	13	11	9	8	11	11	14	14	9.6	21.5	
2-Mar-08	11	8	7	2	1	1	1	1	1	2	3	4	4	4	1	4	5	4	5	4	3	5	3	3	0.7	10.7	
3-Mar-08	4	4	4	3	1	4	2	2	1	3	2	4	5	3	5	9	13	13	15	12	14	11	12	11	3.1	14.5	
4-Mar-08	7	5	4	3	1	1	2	2	1	3	3	5	4	5	4	10	13	12	9	9	6	1	3	5	2.8	12.5	
5-Mar-08	5	9	13	14	10	5	2	1	1	2	2	1	6	7	4	5	4	3	1	2	1	0	1	1	3.1	13.5	
6-Mar-08	3	2	2	2	3	5	8	8	7	10	13	10	6	5	2	1	3	5	9	9	6	11	7	9	3.3	12.6	
7-Mar-08	11	11	11	12	9	9	9	7	7	10	11	13	7	6	7	3	1	2	1	2	3	0	2	2	5.5	13.0	
8-Mar-08	3	5	1	1	1	1	1	2	3	4	3	5	5	9	8	8	11	8	13	12	8	7	4	2	3.7	13.5	
9-Mar-08	3	5	3	3	6	7	5	4	4	6	6	9	9	7	4	3	1	3	2	4	5	9	10	4	4.2	10.2	
10-Mar-08	4	4	4	5	2	2	3	1	1	2	3	2	2	2	2	1	2	3	3	2	2	4	4	1	0.3	5.2	
11-Mar-08	2	2	1	3	1	2	4	6	3	2	2	2	5	7	6	11	12	10	7	0	4	6	6	4	2.6	12.4	
12-Mar-08	4	6	12	17	15	17	20	25	25	25	24	15	16	23	16	16	17	9	8	9	9	1	1	2	13.0	25.3	
13-Mar-08	2	2	2	1	2	2	2	2	1	1	3	4	5	4	6	7	5	6	6	6	4	4	5	4	1.8	6.5	
14-Mar-08	6	6	6	4	2	4	3	1	1	4	3	5	11	10	10	8	5	4	5	5	2	7	11	13	4.9	13.0	
15-Mar-08	11	14	11	10	13	16	14	15	14	15	15	16	15	17	16	17	14	12	11	10	10	6	5	2	12.5	17.2	
16-Mar-08	2	2	1	1	2	3	3	2	2	6	12	11	12	9	8	8	7	7	7	8	15	13	12	15	7.0	15.0	
17-Mar-08	12	10	7	4	3	2	13	14	16	20	21	19	20	21	18	19	15	12	12	12	10	5	3	4	9.7	21.0	
18-Mar-08	4	4	3	4	6	4	4	5	5	5	6	10	13	11	7	8	3	6	3	3	1	5	4	4	3.9	12.5	
19-Mar-08	5	5	7	6	7	6	6	5	4	7	13	14	12	8	10	8	6	5	1	2	1	2	2	1	2.9	14.5	
20-Mar-08	3	1	1	1	2	3	1	2	2	3	1	4	7	6	5	5	6	7	6	5	4	1	4	7	1.2	7.3	
21-Mar-08	4	3	2	3	3	2	3	1	1	0	2	2	6	5	5	5	5	5	5	3	4	8	7	9	0.6	8.9	
22-Mar-08	4	4	3	7	6	6	2	5	6	6	8	11	8	8	9	9	9	8	7	9	10	11	13	11	7.2	13.4	
23-Mar-08	6	5	5	7	8	11	10	11	15	15	20	15	15	15	16	9	9	9	8	10	3	3	3	2	8.9	19.6	
24-Mar-08	3	4	2	3	4	5	5	5	6	6	18	18	16	11	13	15	13	13	12	10	9	3	8	10	6.3	17.9	
25-Mar-08	5	4	4	5	4	4	5	2	2	7	15	13	13	13	14	14	14	10	2	1	4	3	2	2	4.6	14.9	
26-Mar-08	2	2	2	1	1	0	3	2	6	9	10	12	16	13	11	13	12	14	12	10	7	5	5	4	5.7	15.8	
27-Mar-08	4	5	3	4	4	2	1	1	8	11	7	7	7	10	9	9	3	4	2	6	5	6	4	4	1.2	10.8	
28-Mar-08	7	3	5	4	1	3	5	4	3	4	6	6	7	10	8	9	11	12	12	11	10	9	9	6	5.1	12.4	
29-Mar-08	10	11	9	6	7	7	5	7	8	8	6	8	9	9	12	16	15	13	9	7	6	5	4	3	8.3	16.2	
30-Mar-08	3	2	1	1	1	1	1	1	3	0	5	6	5	7	6	6	7	8	5	6	5	6	4	1	2.7	8.1	
31-Mar-08	2	3	1	1	2	2	1	4	5	5	3	2	4	5	5	1	4	3	3	4	3	4	5	4	1.5	5.3	
1-hr Vector	1.1	1.3	1.6	2.0	1.9	1.6	2.1	2.2	2.2	2.7	3.9	4.3	4.7	5.6	5.4	5.4	5.2	4.3	2.8	1.9	1.3	0.7	1.1	0.8			
Hourly Max	11.6	14.0	19.1	21.5	14.8	17.1	20.0	25.2	25.3	25.3	24.5	19.1	19.5	22.5	18.1	18.6	17.2	13.8	14.5	12.5	14.9	12.5	13.6	15.0			

PASZA - Valleyview Wind Direction Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	358.7	352.2	292.3	201.6	116.1	8.4	1.7	312 deg

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	WD Sector
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-Mar-08	187	189	281	288	300	319	312	338	329	352	343	342	348	5	19	20	17	22	24	28	21	23	23	22	347	NNW
2-Mar-08	21	24	30	23	217	180	160	216	358	320	349	355	198	191	234	184	179	191	204	202	221	203	201	181	201	SSW
3-Mar-08	177	198	152	166	218	171	137	250	194	205	201	206	208	262	334	3	20	12	19	28	25	30	20	20	21	NNE
4-Mar-08	34	49	59	81	158	153	195	210	182	193	203	329	15	36	27	308	320	313	323	339	332	261	225	281	332	NNW
5-Mar-08	296	299	290	294	299	332	38	143	165	197	203	281	301	326	2	18	343	342	342	226	144	45	282	211	307	NW
6-Mar-08	206	212	208	216	214	198	195	195	184	189	188	183	192	177	159	52	347	350	302	290	277	289	317	320	231	SW
7-Mar-08	302	301	306	309	309	297	282	280	282	295	307	308	324	320	330	30	70	94	90	227	196	123	187	237	303	WNW
8-Mar-08	225	217	183	231	236	230	247	197	222	206	207	204	254	311	312	329	352	332	304	300	286	269	191	191	283	WNW
9-Mar-08	212	203	210	201	202	201	201	195	186	186	182	182	184	188	185	217	325	322	299	299	215	265	267	222	213	SSW
10-Mar-08	219	176	209	200	212	229	221	203	202	196	209	343	19	30	347	16	84	80	34	242	61	8	346	32	220	SW
11-Mar-08	334	213	71	327	275	151	207	202	231	137	26	355	349	4	300	276	286	334	294	85	204	262	266	181	288	WNW
12-Mar-08	174	260	282	282	281	288	292	292	297	297	303	322	324	318	315	293	306	318	316	359	356	351	344	219	302	WNW
13-Mar-08	245	250	218	231	216	224	222	222	207	305	311	8	1	8	359	54	90	92	71	57	42	19	16	26	30	NNE
14-Mar-08	9	357	0	9	8	24	10	13	273	359	357	355	355	8	8	353	354	360	182	180	313	17	21	19	5	N
15-Mar-08	14	9	22	27	21	16	10	8	14	11	15	14	23	21	12	7	12	16	18	10	4	3	343	15	NNE	
16-Mar-08	273	249	183	181	202	200	213	203	185	185	191	184	183	176	177	182	162	150	171	188	182	180	190	190	184	S
17-Mar-08	191	192	184	202	203	234	277	278	289	292	297	300	300	328	316	322	321	313	299	292	290	258	217	221	291	WNW
18-Mar-08	236	242	230	218	203	187	182	196	189	187	221	274	287	301	289	307	328	311	256	227	230	178	201	194	246	WSW
19-Mar-08	207	210	208	204	202	189	208	212	211	250	279	293	306	325	5	5	0	5	29	196	29	203	212	213	270	W
20-Mar-08	205	34	321	202	215	222	60	204	202	198	176	355	335	339	4	8	37	63	44	37	25	95	155	167	34	NE
21-Mar-08	164	157	132	50	44	10	6	13	13	187	186	311	356	1	355	23	28	21	1	354	160	175	200	200	40	NE
22-Mar-08	188	167	198	186	186	196	209	192	184	191	189	183	175	164	154	169	175	154	138	137	148	166	167	169	172	S
23-Mar-08	185	173	192	182	189	187	181	187	180	183	185	176	178	185	184	184	162	155	210	295	290	202	216	186	186	S
24-Mar-08	159	206	193	206	197	189	205	202	196	205	290	309	330	347	331	323	318	301	293	286	276	237	272	274	290	WNW
25-Mar-08	250	203	198	204	216	192	207	171	177	284	301	300	309	323	325	334	343	343	325	57	353	354	346	359	308	NW
26-Mar-08	338	344	355	11	322	250	22	23	8	360	354	349	351	355	69	63	76	74	75	82	90	53	15	49	34	NE
27-Mar-08	28	26	41	48	39	67	304	23	185	183	191	228	272	293	315	341	40	179	168	184	192	179	191	181	223	SW
28-Mar-08	186	203	213	214	216	334	2	3	316	300	327	356	2	356	18	19	17	26	25	28	22	10	357	344	4	N
29-Mar-08	3	14	23	31	4	359	4	5	7	353	337	337	351	348	343	352	355	1	3	11	27	19	359	335	0	N
30-Mar-08	198	199	221	207	356	347	196	183	168	95	352	3	359	356	356	11	13	11	29	64	40	10	0	337	12	NNE
31-Mar-08	196	203	264	241	343	204	238	209	208	197	160	197	193	341	358	23	14	345	206	197	205	201	204	209	220	SW
Hourly Avg	235	243	276	267	262	260	267	262	254	261	281	303	316	335	343	346	356	2	345	345	344	306	292	249		

PASZA - Valleyview Standard Deviation of Wind Direction Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: March 1, 2008 to April 1, 2008

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	83.8	68.1	29.3	14.1	9.2	6.3	4.7

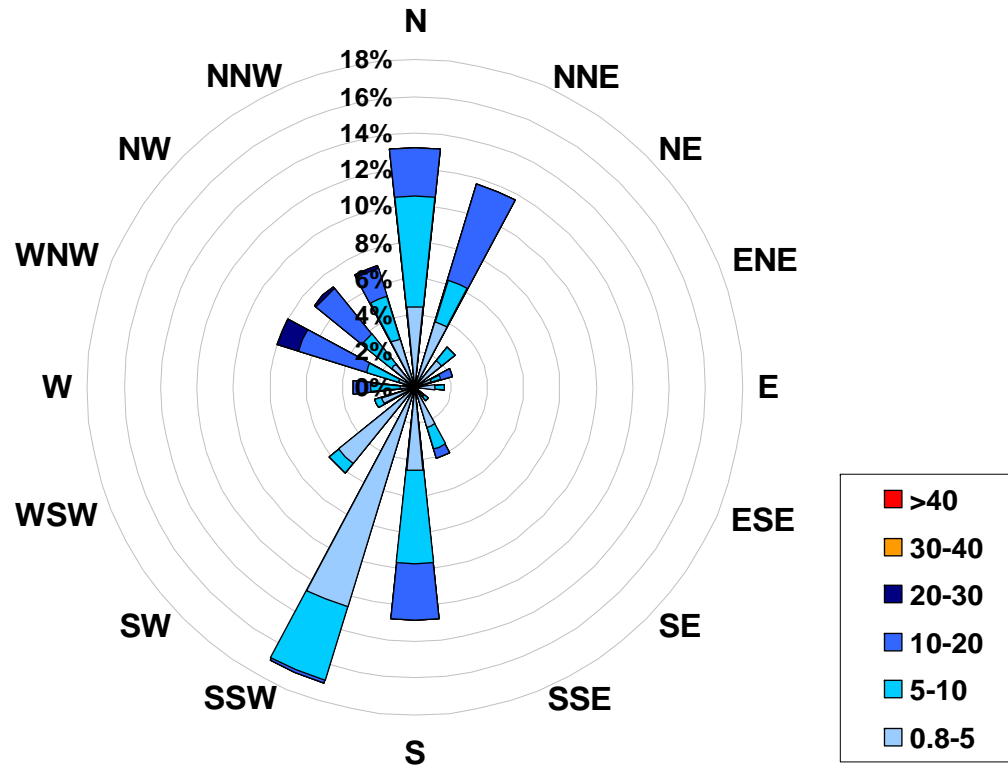
Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Daily Maximum
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-Mar-08	7	7	36	8	20	11	10	10	11	8	9	11	9	17	11	8	10	8	8	9	8	11	8	11	36.4	
2-Mar-08	10	10	9	28	46	38	67	59	36	17	13	16	55	23	70	38	9	11	17	17	27	7	7	11	70.0	
3-Mar-08	30	13	20	44	72	13	68	31	21	7	15	8	9	38	14	19	10	6	7	10	8	8	12	11	72.3	
4-Mar-08	10	11	22	32	54	75	43	20	44	18	31	26	18	18	27	20	8	9	14	13	6	56	15	15	75.0	
5-Mar-08	15	11	7	6	14	34	45	66	46	19	39	79	22	11	13	15	31	23	53	28	78	85	82	45	85.2	
6-Mar-08	25	27	26	20	10	15	4	8	9	7	6	8	13	15	54	67	36	24	14	9	33	13	9	11	66.7	
7-Mar-08	7	7	8	8	9	13	10	11	14	9	9	10	10	17	10	42	53	32	84	17	20	82	29	44	84.4	
8-Mar-08	11	7	72	40	56	40	43	20	16	14	10	9	39	11	13	22	10	21	8	6	11	9	21	30	72.5	
9-Mar-08	45	10	12	18	7	5	7	30	28	10	12	9	11	16	17	31	55	40	59	23	20	12	6	42	59.1	
10-Mar-08	46	51	14	8	20	54	36	81	63	71	57	23	22	33	24	76	41	16	31	64	79	34	44	75	81.1	
11-Mar-08	78	46	64	52	63	63	10	9	54	58	64	64	27	26	22	15	19	7	19	84	28	12	11	20	83.6	
12-Mar-08	20	28	19	8	9	8	9	8	9	9	9	10	15	8	12	11	12	12	12	9	8	24	78	30	78.4	
13-Mar-08	19	67	48	38	13	12	8	36	49	49	49	11	9	12	10	22	25	19	13	9	15	7	6	8	66.7	
14-Mar-08	11	13	8	11	45	19	38	88	70	9	19	8	5	12	6	11	46	41	40	19	63	12	7	9	87.7	
15-Mar-08	6	7	9	10	9	7	7	7	6	7	6	9	7	9	7	8	7	7	7	8	7	7	17	43	42.6	
16-Mar-08	33	25	45	48	28	9	16	12	20	31	9	11	13	13	16	12	18	10	18	11	8	11	10	8	47.7	
17-Mar-08	6	6	9	12	58	32	9	6	8	8	9	9	12	12	15	7	8	8	10	6	7	22	10	7	58.1	
18-Mar-08	10	6	10	15	5	14	23	9	11	17	20	22	15	11	35	14	39	29	34	15	60	11	13	11	60.5	
19-Mar-08	6	7	5	7	7	8	6	4	10	19	13	10	15	16	8	9	12	12	57	37	70	53	51	40	69.8	
20-Mar-08	34	48	84	41	16	13	69	14	52	17	83	12	18	18	9	12	39	18	15	13	11	67	24	10	83.9	
21-Mar-08	18	30	27	25	17	15	19	35	35	92	51	60	14	6	10	23	15	12	17	33	22	13	6	8	91.7	
22-Mar-08	27	30	15	8	7	8	10	10	10	10	8	9	14	21	17	17	15	16	7	7	12	10	6	8	30.1	
23-Mar-08	11	15	14	10	12	8	9	9	10	12	7	12	11	9	10	11	15	13	32	16	45	11	16	30	44.9	
24-Mar-08	26	10	55	10	6	6	8	10	9	14	12	12	18	23	15	17	9	9	10	7	10	16	14	6	54.7	
25-Mar-08	22	6	10	8	3	17	4	23	19	27	13	16	13	15	10	12	7	10	39	89	14	16	64	42	89.3	
26-Mar-08	23	24	33	71	72	87	33	34	14	7	6	3	2	37	15	13	13	7	8	7	11	12	10	24	87.3	
27-Mar-08	18	15	38	22	14	40	55	60	15	11	15	31	25	18	19	23	74	14	25	8	30	18	47	15	74.2	
28-Mar-08	7	9	7	5	70	57	30	15	36	25	21	22	22	22	23	16	12	9	8	10	11	6	9	7	70.1	
29-Mar-08	11	6	10	8	7	6	15	5	9	7	18	17	16	14	11	6	5	7	4	5	6	6	12	52	52.2	
30-Mar-08	11	54	55	79	24	25	76	35	13	86	13	13	31	17	26	25	22	11	10	8	14	8	18	52	85.6	
31-Mar-08	46	10	49	39	59	56	55	5	7	16	69	66	42	46	13	78	71	20	33	12	16	7	5	6	78.1	
Hourly Max	78	67	84	79	72	87	76	88	70	92	83	79	55	46	70	78	74	41	84	89	79	85	82	75		

1-hr Average Wind Rose (in km/hr) Located at the Valleyview Site for March 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	< 5		340
5	to 10		226
10	to 20		166
20	to 30		11
30	to 40		0
	> 40		0
Total Non-Zero Values			744

PASZA

Monthly Passive Data Summary

Table 1. PASZA Passive Stations for March 2008

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
Duplicates					
24a	Wembley	0.3	47.1	1.6	
24b	Wembley	0.2	44.0	1.5	
25a	Pinto Creek	0.3	38.5	1.2	
25b	Pinto Creek	0.3	39.9	1.3	
42a	Sunset House	0.5	51.4	0.5	
42b	Sunset House	0.5	49.4	0.4	
47a	Kinuso	0.2	43.0	0.9	
47b	Kinuso	0.2	47.7	1.0	
48a	Deer Mountain	0.4	46.1	0.6	
48b	Deer Mountain	0.4	47.8	0.3	
54a	Ronan	0.4	60.5	1.1	
54b	Ronan	0.3	53.2	1.1	
49a	Grande Prairie HP	0.4	33.6	9.1	
49b	Grande Prairie HP	0.3	36.1	9.3	
1	Silver Valley	0.4	56.4	0.5	08-27-081-11 W6M
2	Bay Tree	0.3	43.9	0.6	13-16-078-13 W6M
3	Forth Creek	0.4	47.6	0.7	04-13-082-07 W6M
4	Gordondale	0.5	49.4	1.0	04-34-078-10 W6M
5	Boone Creek	N/A	46.6	1.1	01-23-076-11 W6M
7	Steeprock Creek	0.4	47.6	0.9	09-35-072-13 W6M
9	Spirit River	0.3	46.5	1.1	08-12-079-07 W6M
10	Woking	0.4	44.2	0.6	01-13-076-07 W6M
11	Webber Creek	0.3	49.6	1.4	09-36-074-09 W6M
12	Hythe	0.4	40.3	1.9	14-36-072-11 W6M
14	Sylvester	0.2	39.4	0.9	08-06-069-12 W6M
16	Beaverlodge	0.5	48.0	1.9	15-36-071-10 W6M
17	Poplar	0.4	39.7	2.0	13-06-073-08 W6M
18	Saddle Hills	0.4	47.2	0.8	04-25-074-07 W6M
19	Wanham	0.5	48.4	0.5	16-22-077-03 W6M
20	Shaftesbury	0.3	45.8	0.4	04-03-082-23 W5M
21	Eaglesham	0.3	54.4	0.3	16-21-079-25 W5M
23	Bear Lake	0.5	44.8	1.7	15-31-072-06 W6M

Table 1. PASZA Passive Stations for February 2008 (Continued)

Station Number	Station Name	SO ₂ ppb	O ₃ ppb	NO ₂ ppb	Site Legal
24	Wembley	0.3	45.5	1.6	12-31-070-08 W6M
25	Pinto Creek	0.3	39.2	1.3	04-24-069-11 W6M
26	Flyingshot	0.3	39.3	2.4	15-36-070-07 W6M
27	Grande Prairie I	0.4	35.1	8.7	08-15-071-06 W6M
28	Clairmont Lake	0.4	46.1	1.3	09-06-073-04 W6M
29	Smoky Heights	0.6	51.8	1.3	04-06-075-02 W6M
30	Fitzsimmons	0.3	40.1	1.0	15-36-072-03 W6M
32	Gold Creek	0.4	31.0	3.1	06-33-067-05 W6M
33	Wapiti	0.2	45.9	1.3	02-25-071-03 W6M
34	Puskaskau	0.2	46.9	0.3	15-35-074-25 W5M
35	Jean Cote	0.3	57.9	0.5	12-35-079-21 W5M
36	Guy	0.3	54.1	0.5	03-04-076-22 W5M
37	Crooked Creek	0.4	48.8	1.3	16-01-071-26 W5M
39	Clouston Creek	0.3	50.4	0.7	12-01-073-22 W5M
40	McLennan	0.4	54.5	0.3	03-29-077-19 W5M
41	Valleyview	0.4	51.0	0.9	09-30-069-22 W5M
42	Sunset House	0.5	50.4	0.4	05-32-070-19 W5M
43	High Prairie	0.3	54.9	1.0	16-13-074-17 W5M
44	Peavine	0.2	44.2	0.3	03-05-079-15 W5M
45	Gift Lake	0.3	46.6	0.7	10-07-079-12 W5M
46	Little Smoky	0.5	44.4	3.1	12-01-065-21 W5M
47	Kinuso	0.2	45.4	0.9	12-10-073-10 W5M
48	Deer Mountain	0.4	47.0	0.5	15-22-068-09 W5M
49	Grande Prairie HP	0.4	34.8	9.2	17-26-071-06 W6M
50	Clear River	0.4	57.1	0.4	SE-03-084-12 W6M
51	Bear Canyon	0.8	49.8	0.7	SE-28-085-12 W6M
52	Worsley	0.3	53.9	1.1	NE-34-085-07 W6M
53	Hines Creek	0.3	55.4	0.3	SW-09-084-04 W6M
54	Ronan	0.4	56.9	1.1	SE-03-082-04 W6M
55	Cadotte Lake School	0.3	43.8	1.3	NE-23-086-16 W5M
56	Simon Lake Store	0.8	45.9	1.0	SE-32-086-17 W5M
57	Dixonville	0.2	48.2	0.7	SE-14-087-24 W5M
58	Queen Elizabeth Park	0.3	53.6	0.5	NW-19-083-23 W5M
59	Blue Sky	0.4	57.3	1.1	SW-35-081-02 W6M
60	Gerry Lake	0.3	48.8	0.0	SW-22-084-02 W6M
61	Musreau Lake	0.2	42.2	0.4	NE-22-064-05 W6M

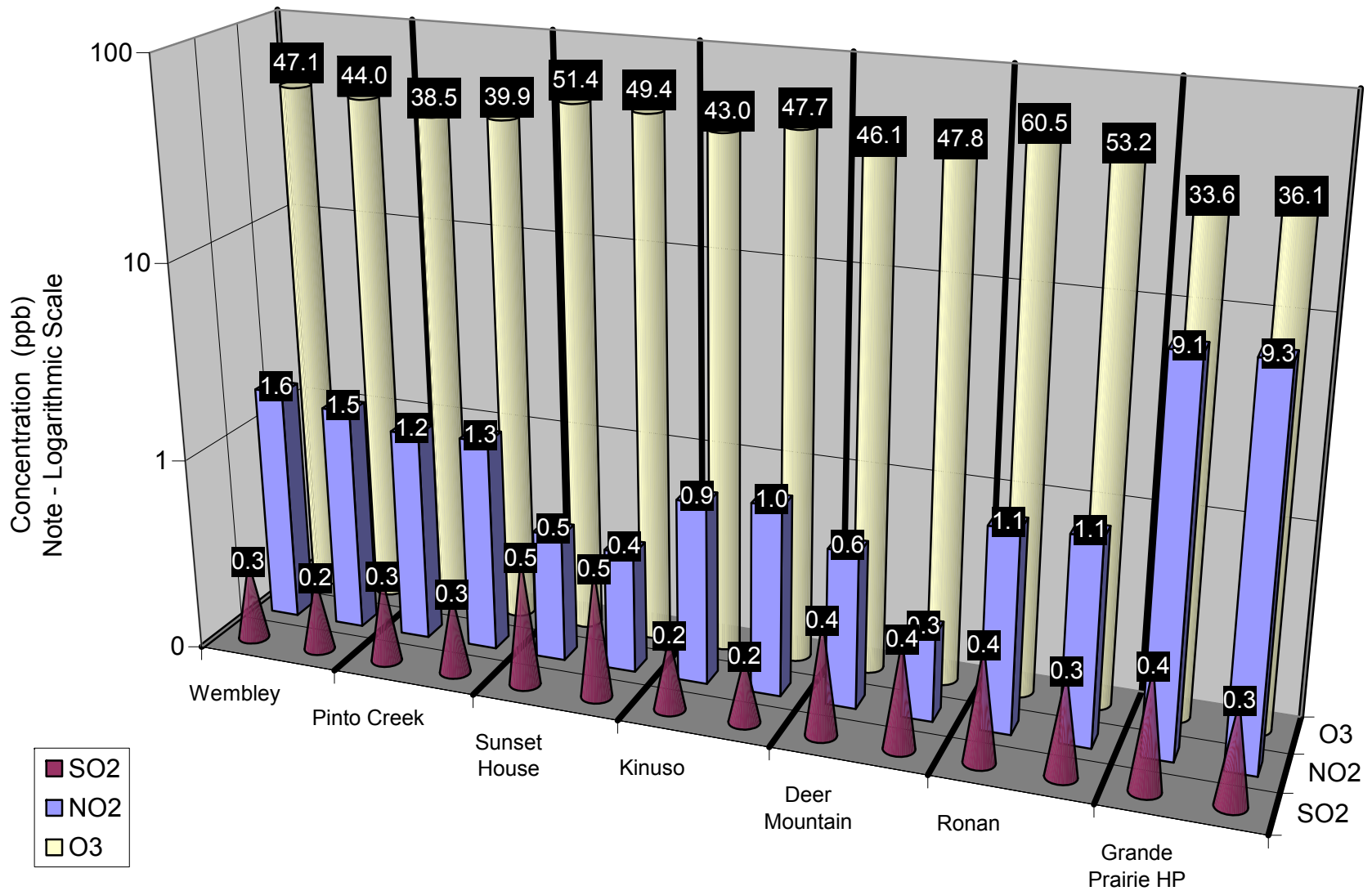


Figure 61. Duplicate Summary Chart

Table 2. Passive Summary Results for March 2008

Stats	Sulphur Dioxide SO ₂ ppb	Ozone O ₃ ppb	Nitrogen Dioxide NO ₂ ppb
Passive Summary for March 2008 (PASZA Zone)			
Mean	0.4	47.4	1.3
Standard Deviation	0.1	6.0	1.6
Minimum	0.2	31.0	0.0
Minimum At	Musreau Lake (#61)	Gold Creek (#32)	Gerry Lake (#60)
Maximum	0.8	57.9	9.2
Maximum At	Bear Canyon (#51)	Jean Cote (#35)	Grande Prairie HP (#49)
Comparison between Continuous and Passive monitoring at Beaverlodge (passive #16 Beaverlodge)			
	SO ₂	O ₃	NO ₂
PASZA Beaverlodge station	0.5	38.6	3.7
PASZA Beaverlodge passive	0.5	48.0	1.9
Comparison between Continuous and Passive monitoring at Henry Pirker (passive #49 Grande Prairie HP)			
	SO ₂	O ₃	NO ₂
PASZA Henry Pirker station	0.2	28.0	13.4
PASZA Grande Prairie passive	0.4	34.8	9.2
Comparison between Continuous and Passive monitoring at Spirit River (passive #9 Spirit River)			
	SO ₂	O ₃	NO ₂
PASZA Portable Spirit River station	0.2	41.6	2.6
PASZA Spirit River passive	0.3	46.5	1.1

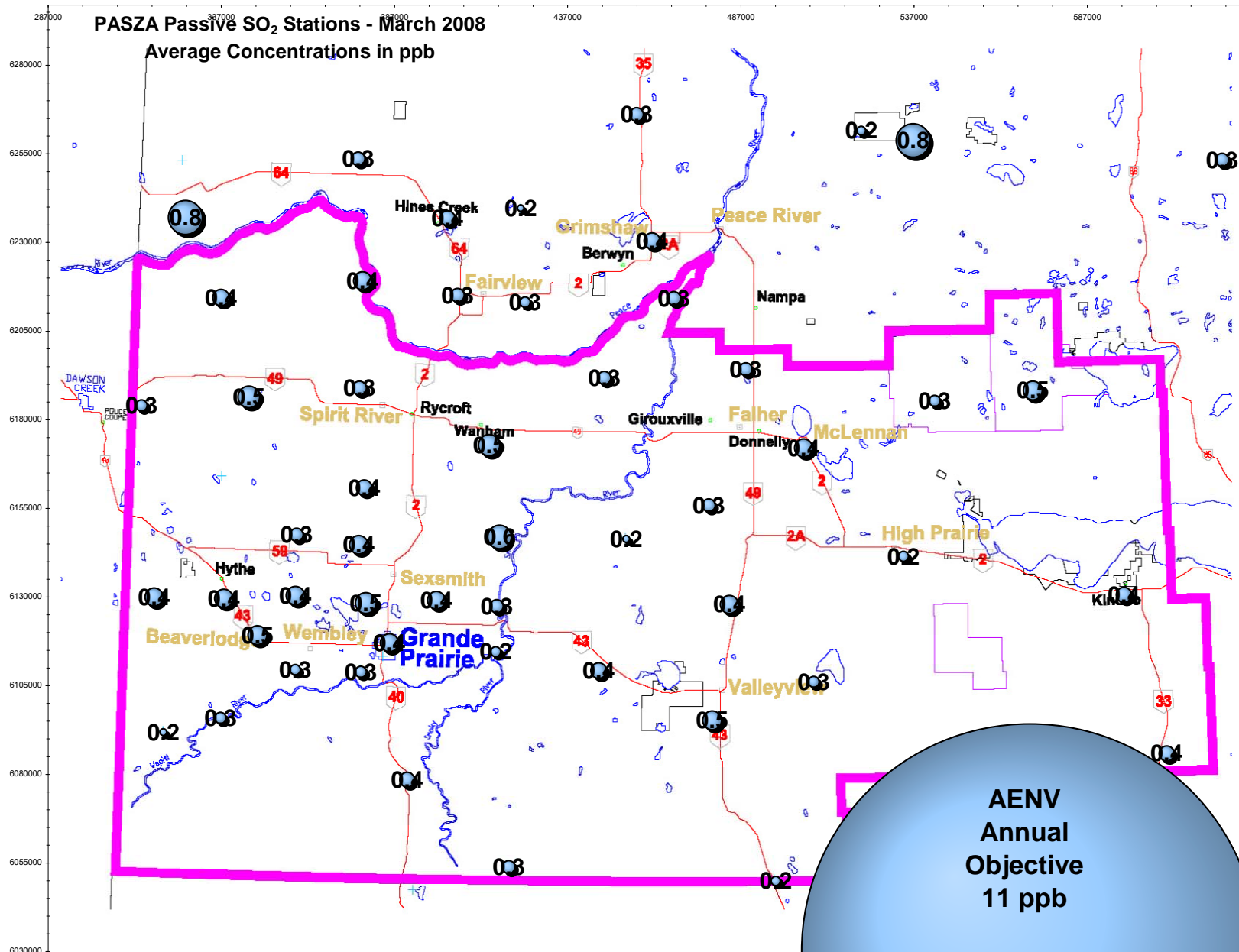


Figure 62. SO₂ Bubble Chart

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

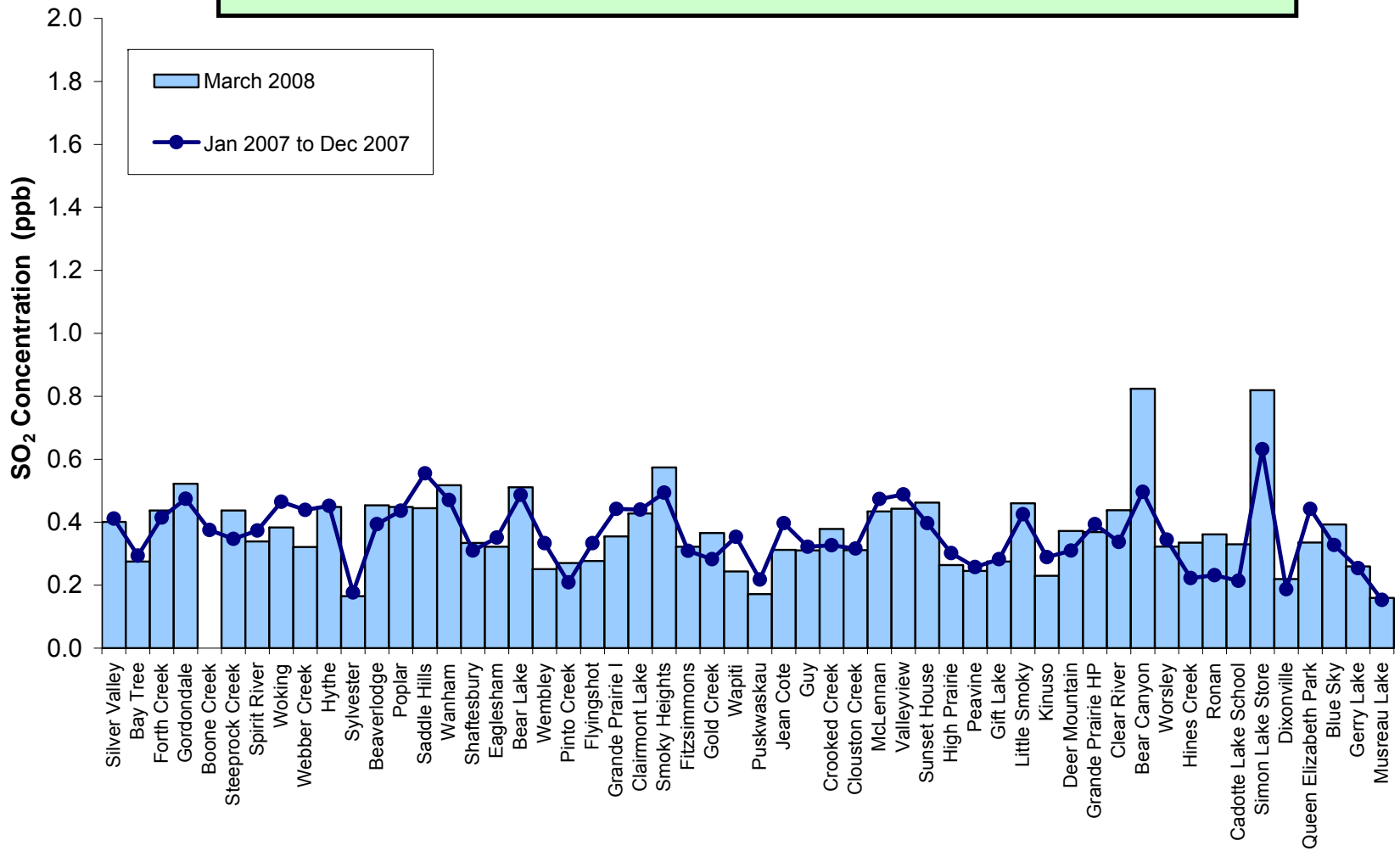


Figure 63. SO₂ Summary Chart

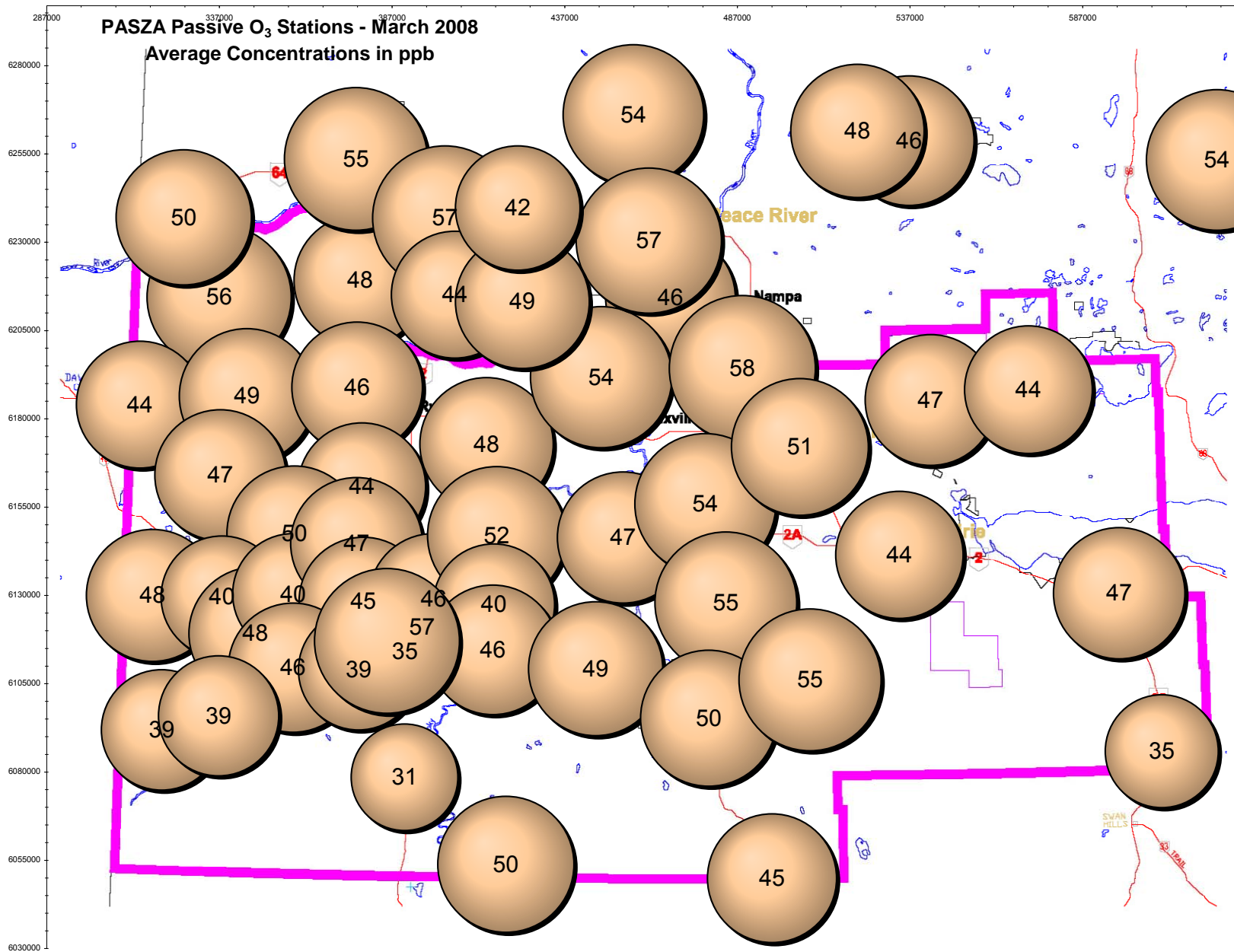


Figure 64. O₃ Bubble Chart

Alberta Ambient Air Quality Objective - No Annual O₃ Objective

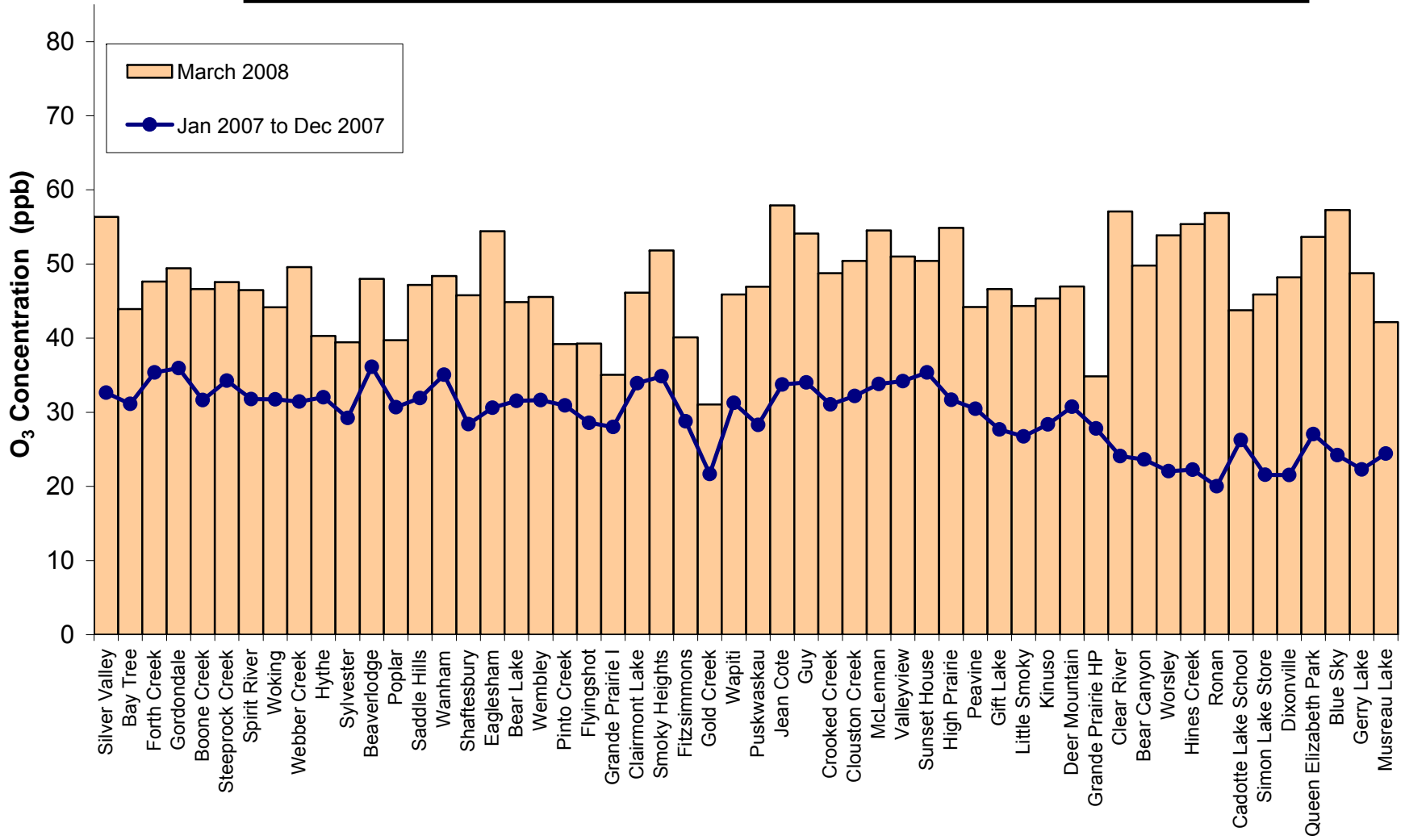


Figure 65. O₃ Summary Chart

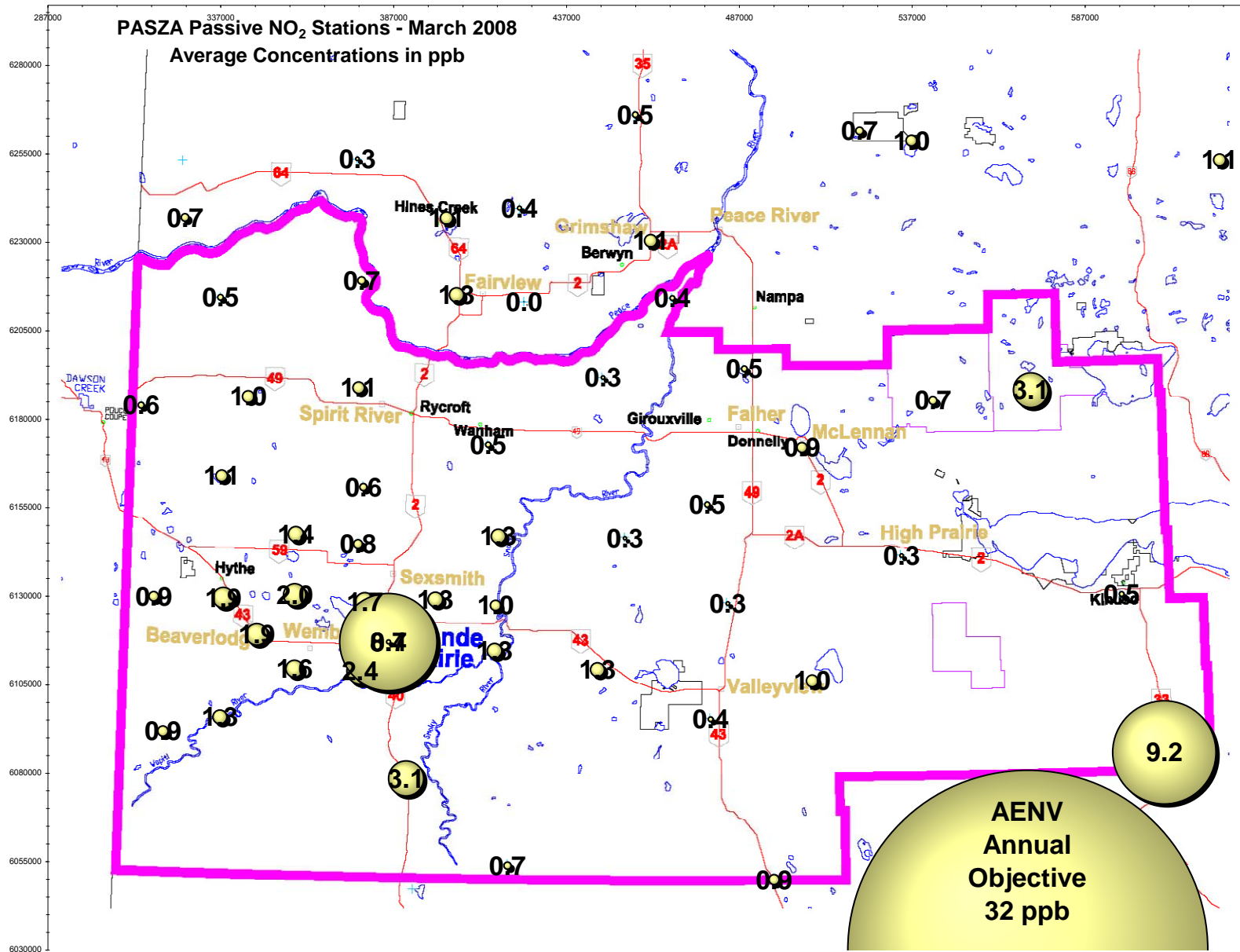


Figure 66. NO₂ Bubble Chart

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

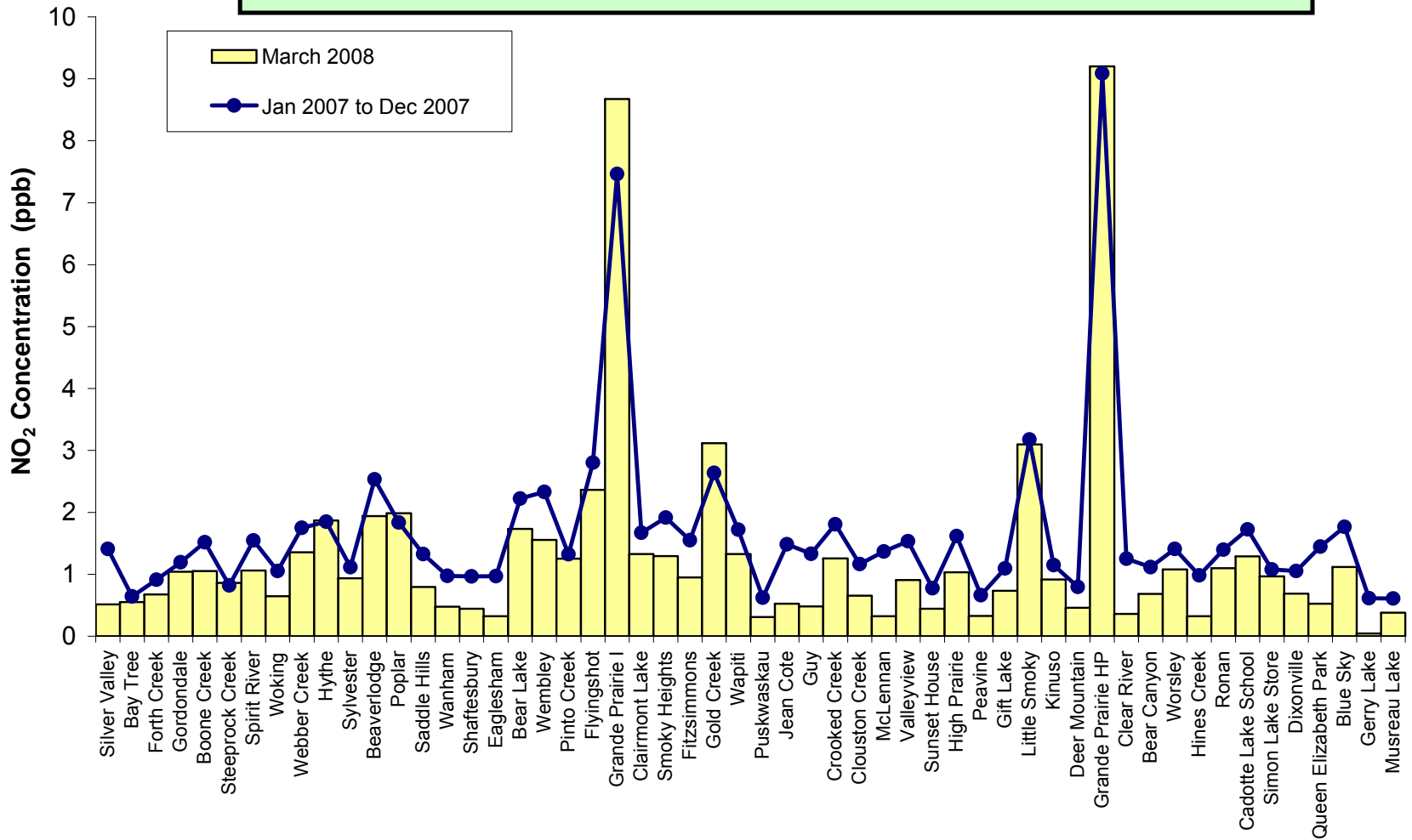


Figure 67. NO₂ Summary Chart

March 2008 Calibration Reports

**PASZA - Henry Pirker Station with the following calibrations:
SO₂, NO, NO₂, NO_x, O₃, CO, THC and TRS**

**PASZA – Evergreen Park Station with the following calibrations:
SO₂, TRS and TEOM**

**PASZA – Smoky Heights Station with the following calibrations:
SO₂ and TRS**

**PASZA – Beaverlodge Station with the following calibrations:
SO₂, NO, NO₂, NO_x, O₃**

**PASZA – Spirit River (Portable) Station with the following calibrations:
SO₂, TRS, NO, NO₂, NO_x, O₃,**

**PASZA – Valleyview Station with the following calibrations:
SO₂, H₂S**

Calibration ReportParameter **SO2**
Air Monitoring Network **PASZA****Station Information**

Calibration Date	March 6, 2008	Previous Calibration	February 6, 2008
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	9:15	End Time (MST)	12:20
Barometric Pressure	0.918 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	50.3 ppb	Cal Gas Expiry Date	1/2/2009
		Cal Gas Cylinder #	LL16161
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	10
	Before		After
Calculated slope	0.996475	Calculated slope	1.000647
Calculated intercept	-1.537401	Calculated intercept	-1.822496
Analyzer make	TEI 43C	Analyzer serial #	610816292

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	7.5		7.6	
Coefficient	.800		.800	
Pressure	643.5	mm Hg	637.6	mm Hg
Flow	0.480	lpm	0.481	lpm
Lamp Voltage	44296	Hz	44657	Hz

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)
4988	0.00	0.0	0.4	N/A
4988	39.87	398.9	399.6	0.9983
4988	19.90	199.9	202.7	0.9861
4988	9.93	99.9	102.9	0.9715
4988	0.00	0.0	0.4	As Found Zero
4988	39.82	398.4	399.6	As Found Span
Average Correction Factor				0.9853

Calculated value of As Found Response: 396.2 ppb Percent Change of As Found: 0.5%

	before calibration		after calibration	
Auto zero	0.0	ppb	-0.3	ppb
Auto span	340.1	ppb	338.3	ppb

Notes: _____

_____Calibration Performed By: Conor Whiteley

Calibration Summary

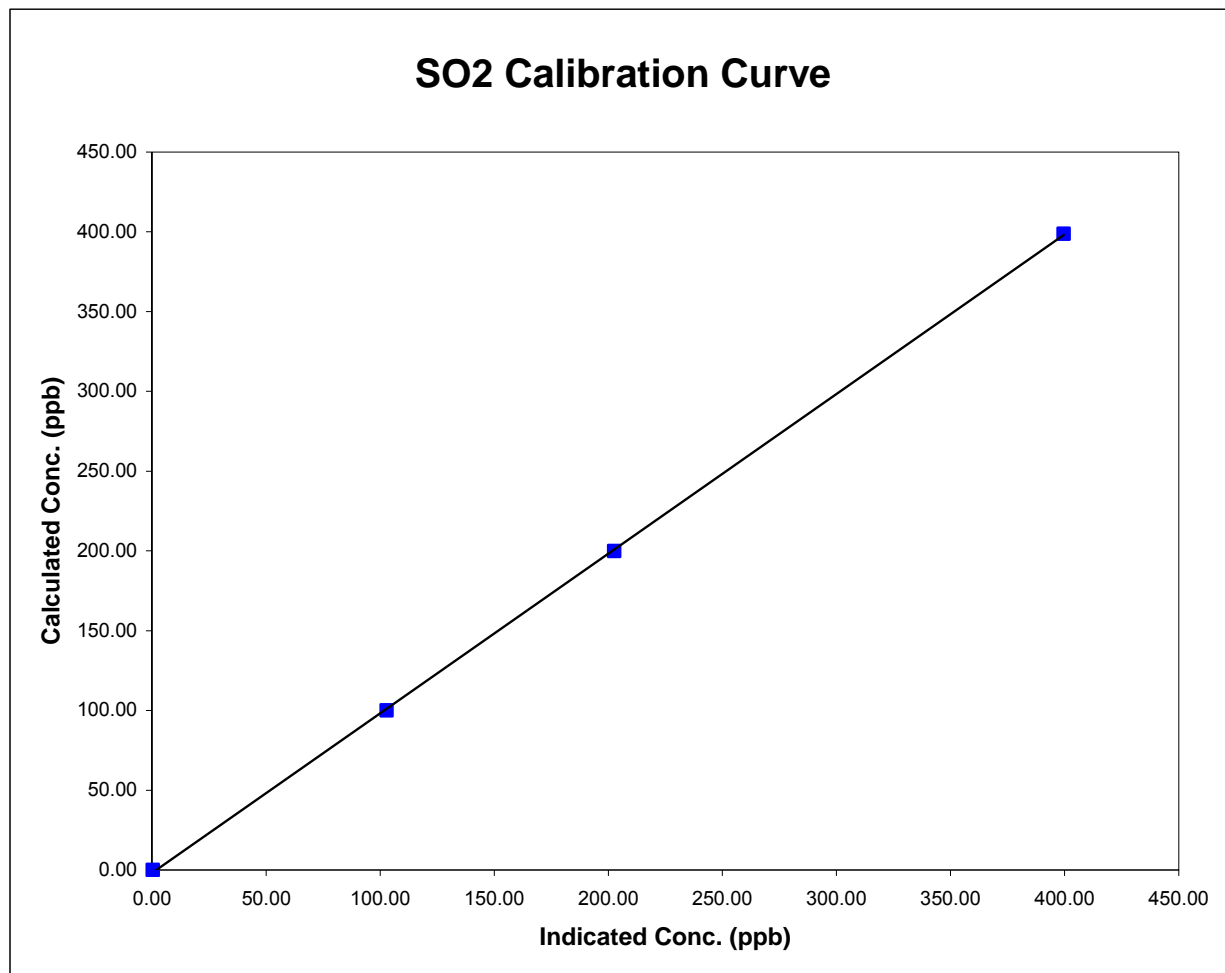
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

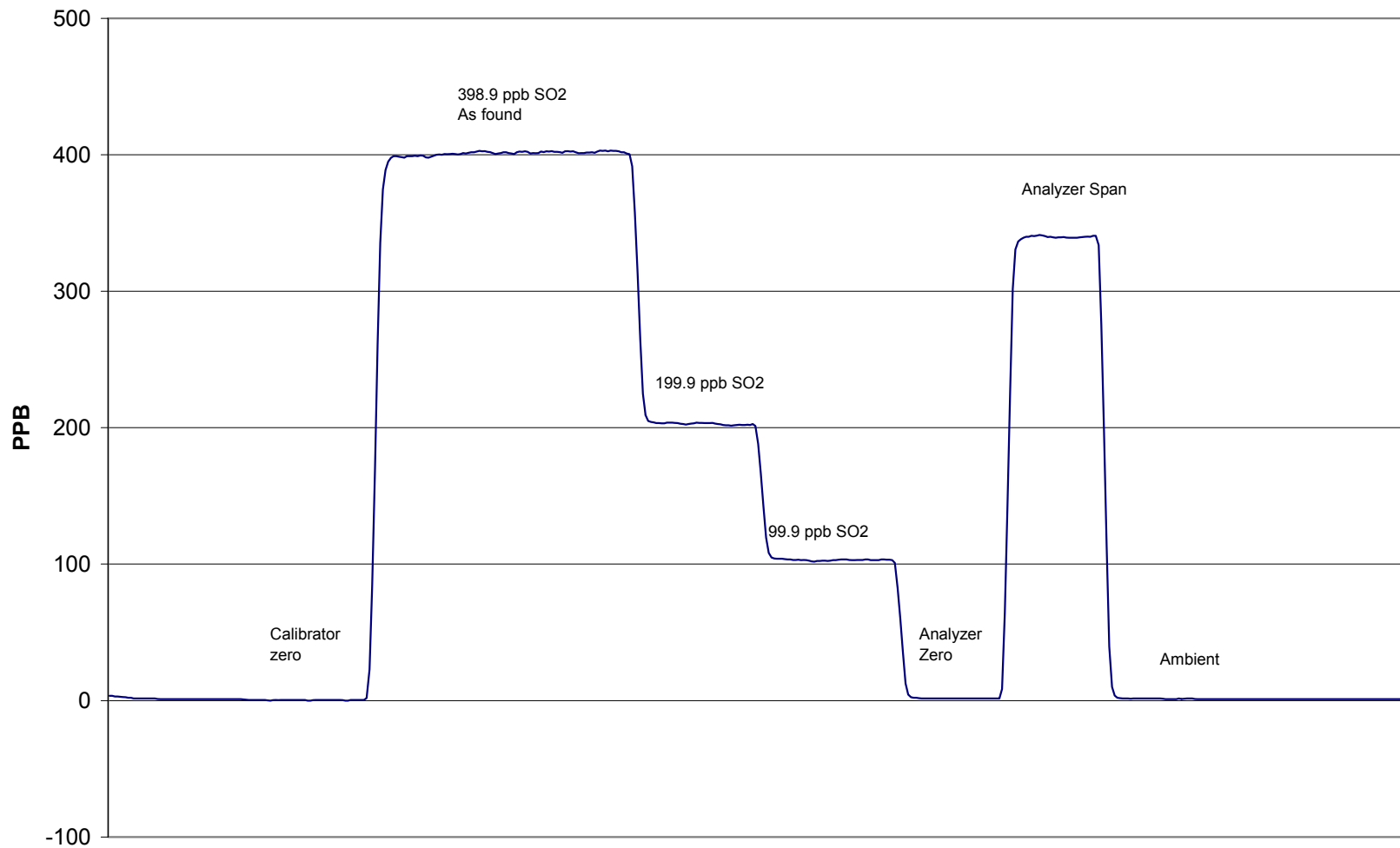
Calibration Date	March 6, 2008	Previous Calibration	February 6, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:15	End Time (MST)	12:20
Analyzer make/model	TEI 43C	Analyzer serial #	610816292

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.4	N/A		
398.9	399.6	0.9983	Correlation Coefficient	0.999938
199.9	202.7	0.9861		
99.9	102.9	0.9715	Slope	1.000647
			Intercept	-1.822496



Henry Pirker SO2 Calibration



March 6, 2008

Calibration Report

Parameter
Air Monitoring Network

NOx-NO-NO₂
PASZA



Station Information

Calibration Date	March 6, 2008	Previous Calibration	February 6, 2008
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Installation	<input type="checkbox"/> Removal
Start Time (MST)	9:15	End Time (MST)	13:30
Barometric Pressure	0.918 Atm	Station Temperature	21.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
NO Cal Gas Conc	48.9 ppm	Cal Gas Expiry Date	1/2/2009
NOx Cal Gas Conc	48.9 ppm	Cal Gas Serial #	LL16161

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	Data Slope	1.005416	1.005416	1.005416
	Data Offset	1.005416	1.005416	1.005416
After	Data Slope	1.010892	1.009470	1.007381
	Data Offset	-0.836225	-2.383193	-1.667471
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model Teco 42C Analyzer serial # 508011073

Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO background	7.8	ppb	7.9	mV
NOx background	8.2	ppb	8.3	mV
NO coefficient	0.684		0.694	
NOx coefficient	0.997		0.999	
Chamber Temp	50.0	Deg C	49.9	Deg C
Cooler Temp	-2.4	Deg C	-2.5	Deg C
Converter Temp	318.0	Deg C	318.0	Deg C
Vacuum	168.8	mm Hg	167.9	mm Hg

Notes: Adjusted Nox

Calibration Report



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

Station Information

Calibration Date: **March 6, 2008** Station Location: **Henry Pirker**

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor
zero	4988	0.00	0.0	0.0	0.0	1.1	0.1	1.0	N/A	N/A
1	4988	39.87	387.8	387.8	0.0	385.8	385.7	0.1	1.0051	1.0054
2	4988	19.90	194.3	194.3	0.0	195.6	195.6	0.1	0.9932	0.9936
3	4988	9.93	97.2	97.2	0.0	99.8	99.5	0.2	0.9735	0.9760
AFZ	4988	0.00	0.0	0.0	0.0	1.1	0.1	1.0	0.0000	0.0000
AFS	4988	39.88	387.9	387.9	0.0	378.9	379.7	-0.7	1.0236	1.0215
Average Correction Factor									0.9906	0.9917

As Found Concentrations: NO_x= 378.8 NO= 380.6 As Found Percent Change NO_x= -2.3% NO= -1.9%

GPT Calibration Data

Dilution Flow 4988 ccm Source Gas Flow 39.88 ccm

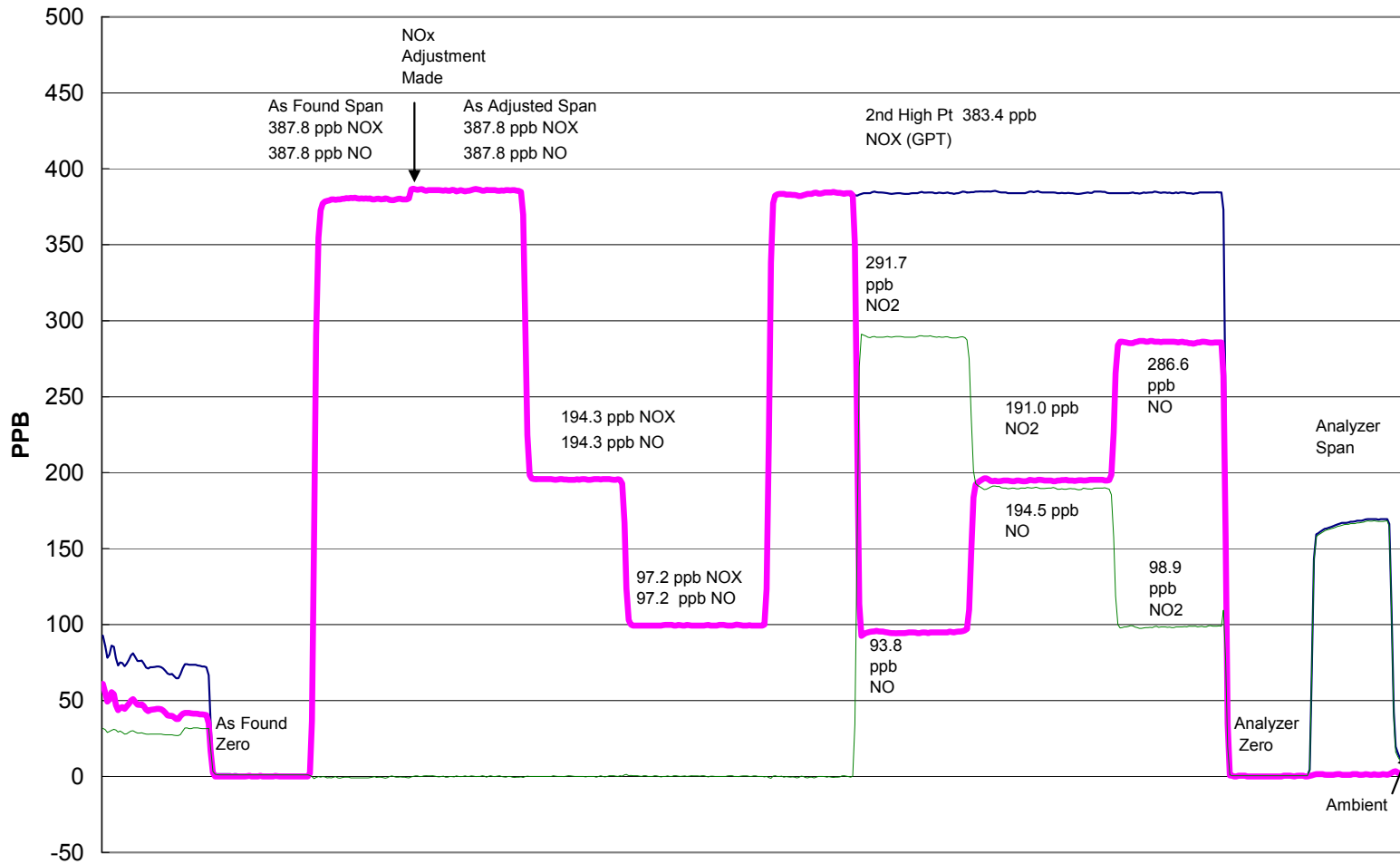
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	385.5	384.8	0.7	383.2	383.6	-0.4	1.0060	1.0030	N/A	N/A
300	385.5	93.8	291.7	384.0	94.7	289.5	1.0038	0.9898	1.0077	99.2%
200	385.5	194.5	191.0	384.4	194.7	189.8	1.0028	0.9988	1.0061	99.4%
100	385.5	286.6	98.9	384.3	286.1	98.3	1.0032	1.0016	1.0062	99.4%
Average Correction Factor							1.0033	0.9967	1.0067	99.3%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	1.4	1.1	1.0	ppb	1.7	1.6	1.1	ppb
Auto span	170.6	171.3	-0.6	ppb	165.7	166.1	-0.5	ppb

Calibration Performed By: Conor Whiteley

Henry Pirker NOx Calibration



March 6, 2008

Calibration Summary

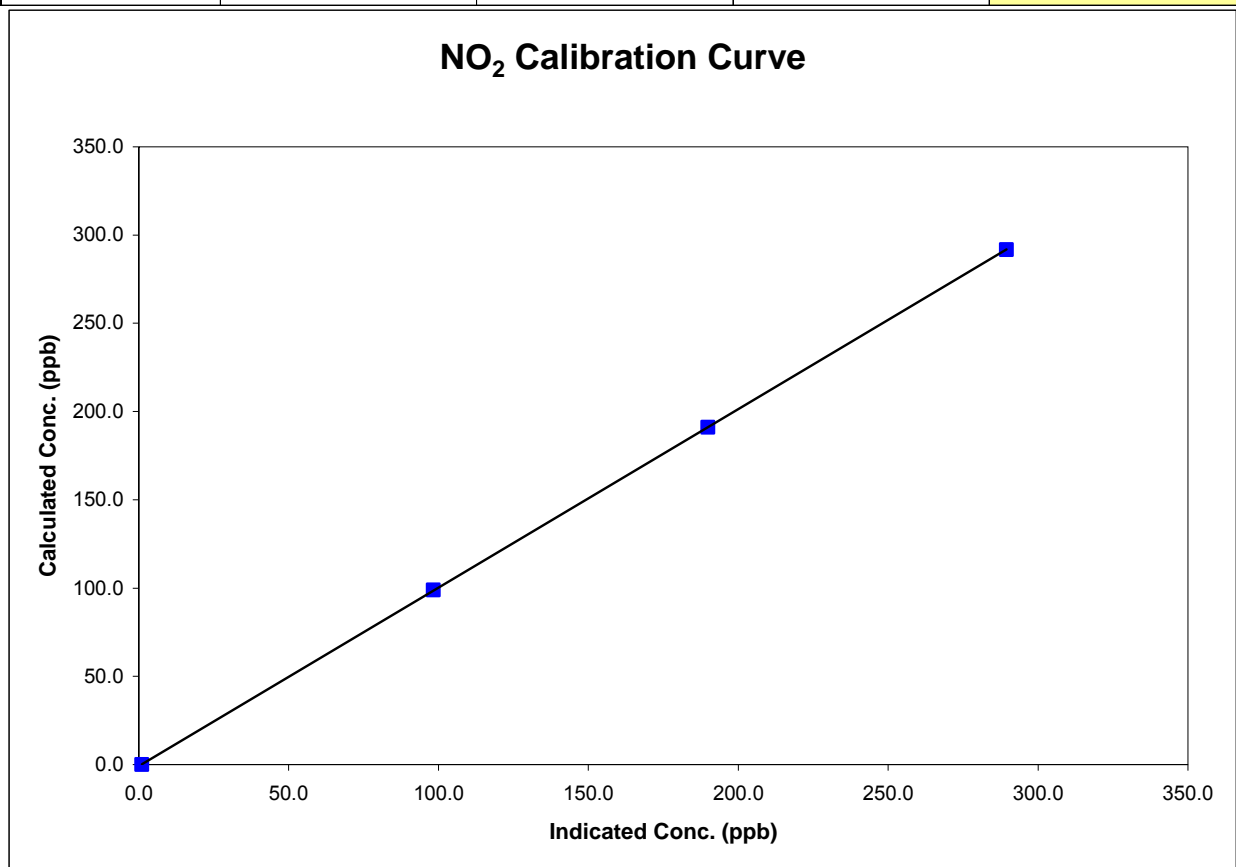
Parameter **NO₂**Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 6, 2008	Previous Calibration	February 6, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:15	End Time (MST)	13:30
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.0	0.0000		
291.7	289.5	1.0077	Correlation Coefficient	0.999996
191.0	189.8	1.0061		
98.9	98.3	1.0062	Slope	1.010892
			Intercept	-0.836225



Calibration Summary

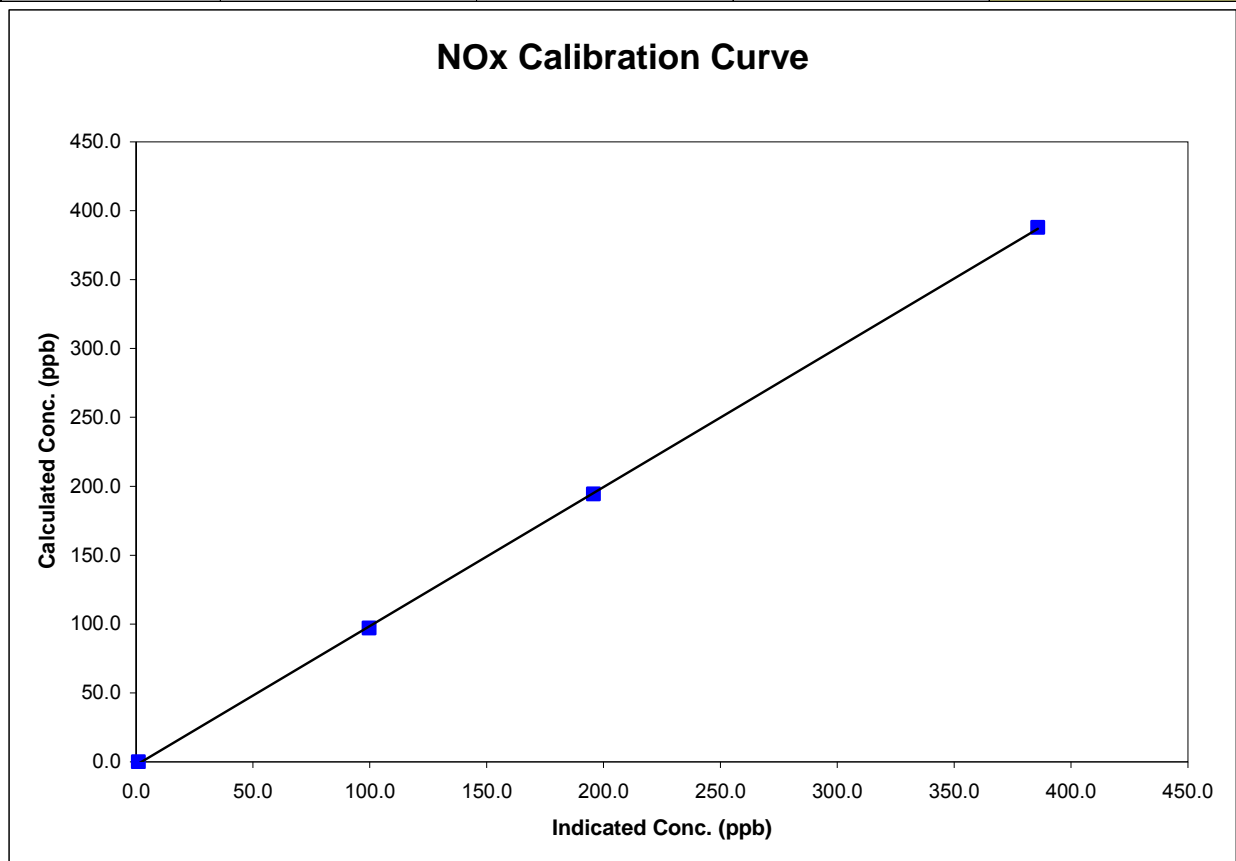
Parameter **NO_x**Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 6, 2008	Previous Calibration	February 6, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:15	End Time (MST)	13:30
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.1	0.0000		
387.8	385.8	1.0051	Correlation Coefficient	0.999948
194.3	195.6	0.9932		
97.2	99.8	0.9735	Slope	1.009470
			Intercept	-2.383193



Calibration Summary

Parameter **NO**
 Air Monitoring Network **PASZA**

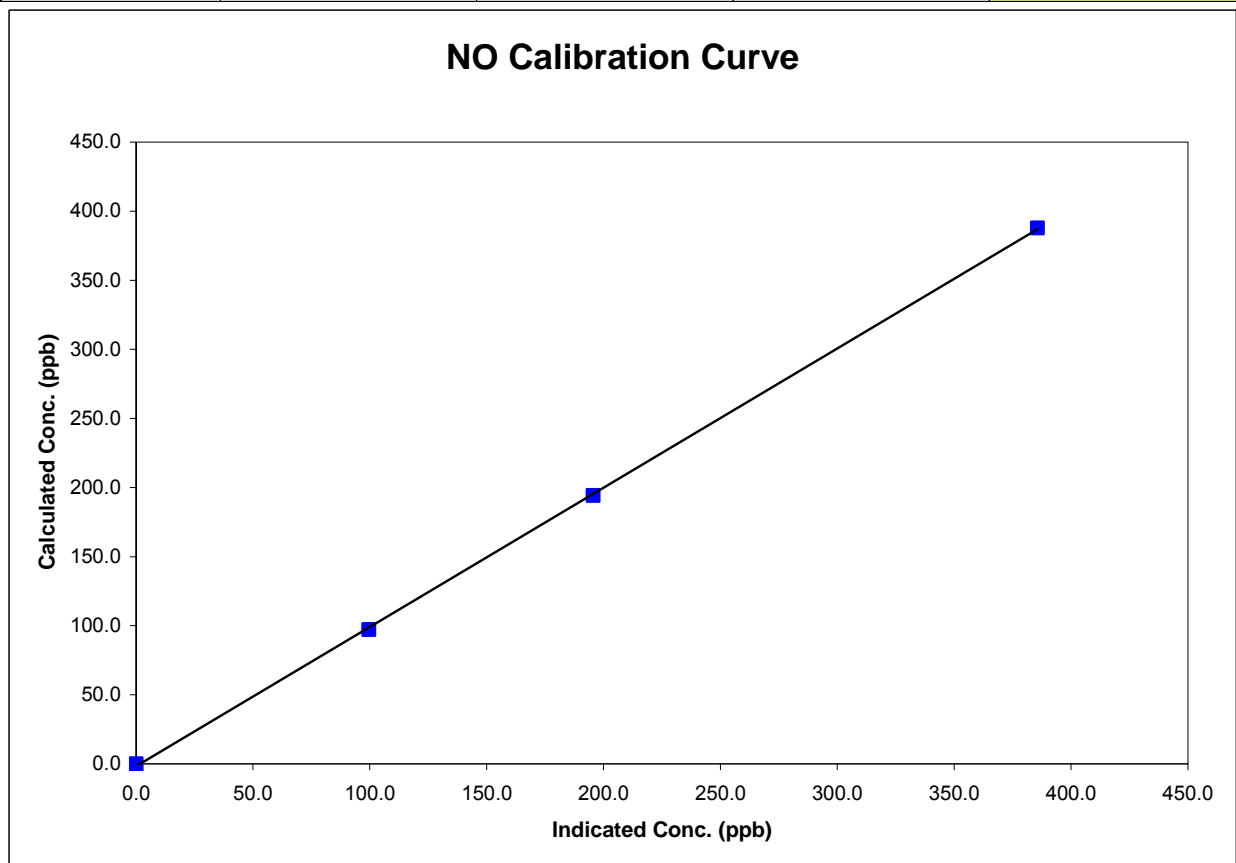


Station Information

Calibration Date	March 6, 2008	Previous Calibration	February 6, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:15	End Time (MST)	13:30
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	N/A		
387.8	385.7	1.0054	Correlation Coefficient	0.999921
194.3	195.6	0.9936		
97.2	99.5	0.9760	Slope	1.007381
			Intercept	-1.667471



Calibration Report

Parameter **O3**Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 6, 2008	Previous Calibration	February 8, 2008
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>

Start Time (MST)	14:30	End Time (MST)	17:45
Barometric Pressure	0.918 atm	Station Temperature	20.0 Deg C
Calibrator	Enviroics 6103	Serial Number	2844
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA

DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 1 volt	DACS channel #	5
	Before		After

Calculated slope	0.995362	Calculated slope	0.998152
Calculated intercept	-1.648440	Calculated intercept	-2.098789

Analyzer make	TECO 49C	Analyzer serial #	607415761
---------------	----------	-------------------	-----------

	before		after	
Concentration range	500	ppb	500	ppb
offset	-0.6	ppb	-0.7	ppb
slope	0.981		1.023	
O3 Lamp temp	71.1	Deg C	71.1	Deg C
Intensities	100386/79581	mV	98740/78662	mV
Pressure	689.4	inches Hg	682.5	inches Hg
Flow A	668	ccm	664	ccm
Flow B	684	Deg C	679	Deg C

Calibration Data

Referenced concentration (ppb)	Dilution air flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
0	4990	0.0	0.3	N/A
300	4990	291.7	291.9	0.9992
200	4990	191.0	196.3	0.9728
100	4990	98.9	102.5	0.9646
0	4990	0.0	0.3	As found zero
300	4990	297.9	265.9	As found span
Average Correction Factor				0.9789

Calculated value of As Found Response: 262.7 ppm Percent Change of As Found: -11.8%

	before calibration		after calibration	
Auto zero	-0.6	ppb	-1.9	ppb
Auto span	489.6	ppb	495.7	ppb

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary

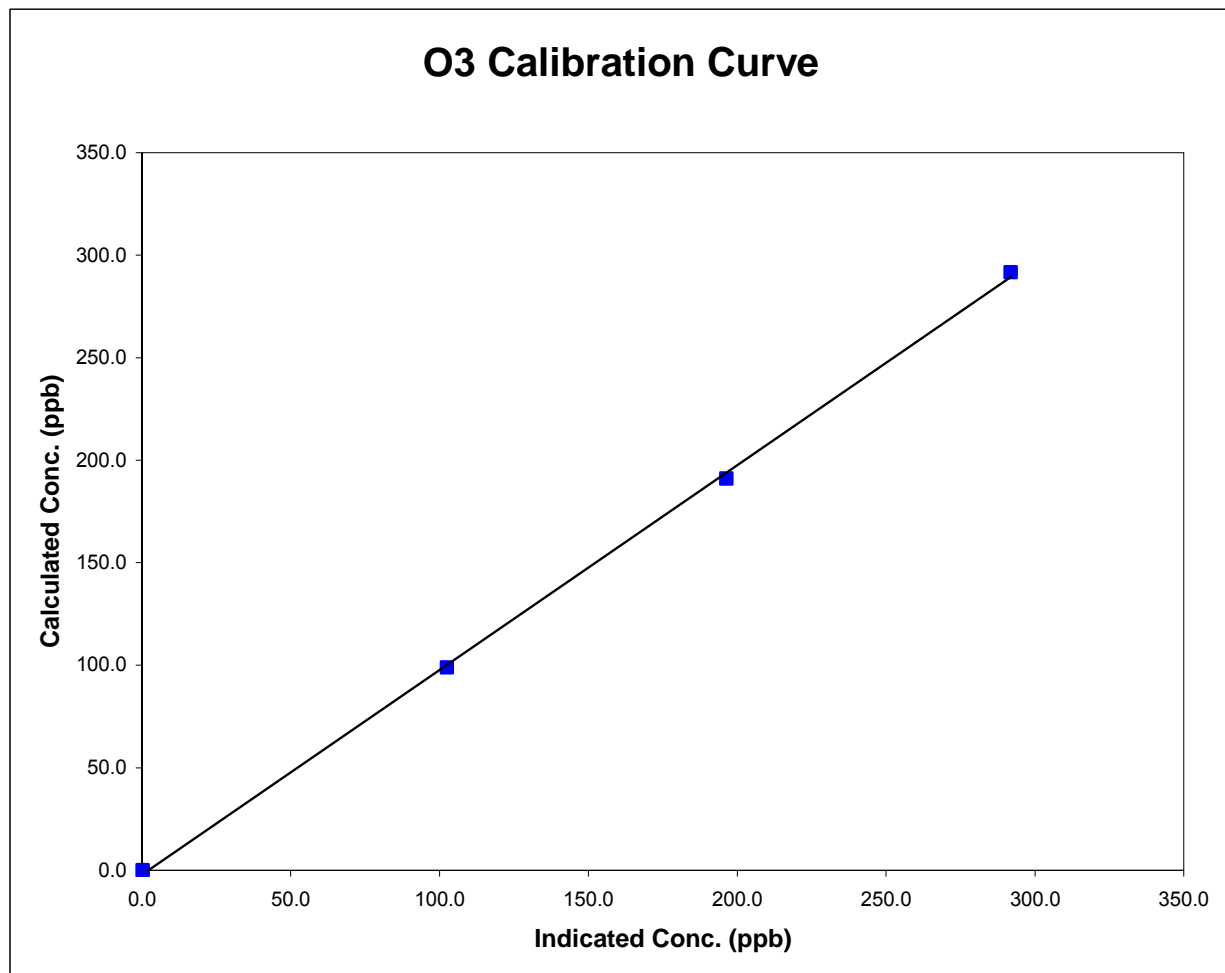
Parameter **O3**Air Monitoring Network **PASZA**

Station Information

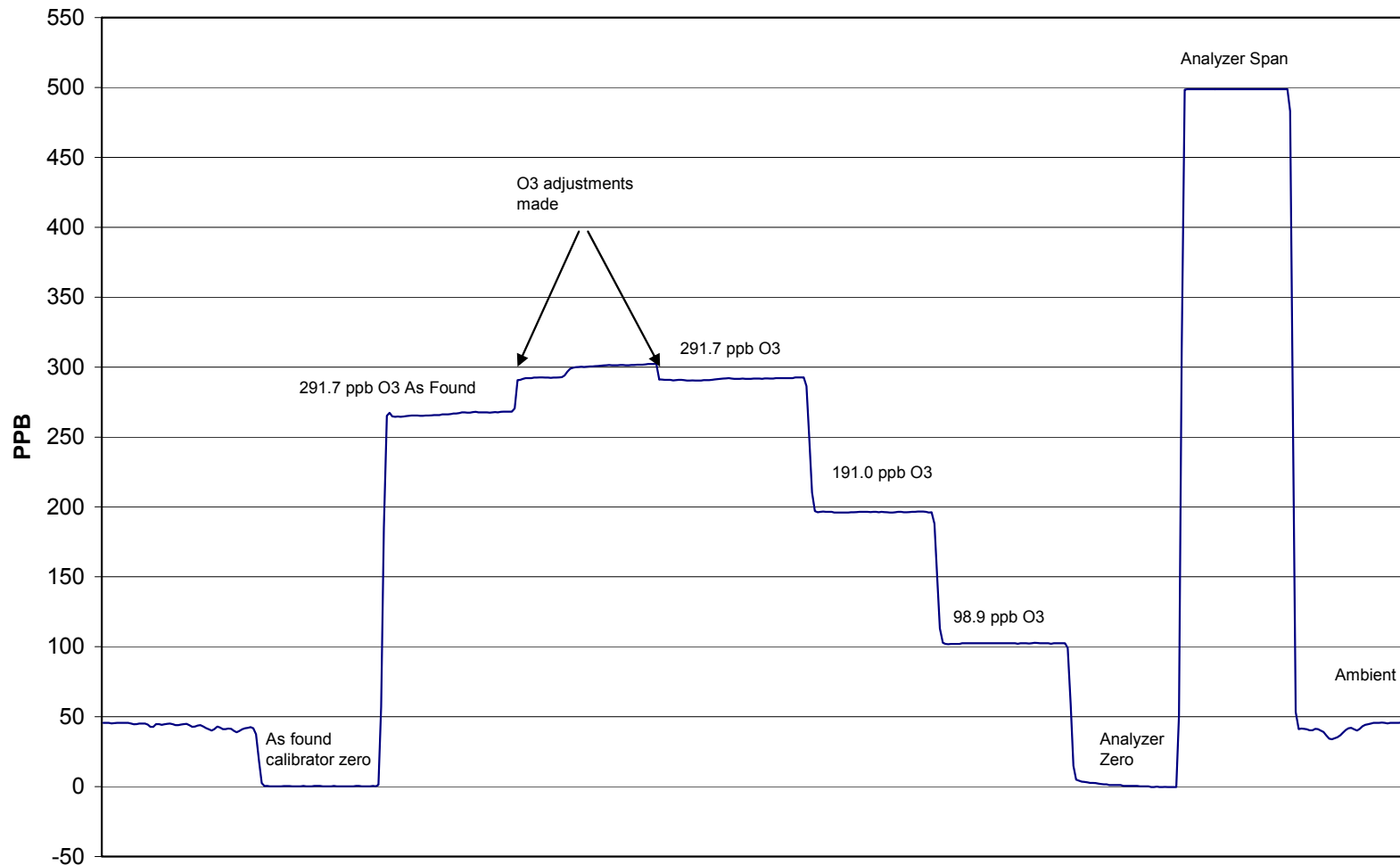
Calibration Date	March 6, 2008	Previous Calibration	February 8, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	14:30	End Time (MST)	17:45
Analyzer make/model	TECO 49C	Analyzer serial #	607415761

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	NA		
291.7	291.9	0.9992	Correlation Coefficient	0.999589
191.0	196.3	0.9728		
98.9	102.5	0.9646	Slope	0.998152
			Intercept	-2.098789



Henry Pirker O3 Calibration



March 6, 2008

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

Calibration Date	March 5, 2008	Previous Calibration	February 8, 2008
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:00	End Time (MST)	17:50
Barometric Pressure	0.929 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	3000 ppm	Cal Gas Expiry Date	AUG 28/05
		Cal Gas Cylinder #	AAL20565
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.006701	Calculated slope	1.003421
Calculated intercept	-0.170812	Calculated intercept	0.043587
Analyzer make	TEI Model 48C	Analyzer serial #	508011062

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO span setting	1.035		1.017	
CO zero setting	1.069		-0.095	
Sample pressure	702.3	mm Hg	683.1	mm Hg
Sample Flow	1.151	LPM	1.13	LPM

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4991	0.00	0.00	-0.04	N/A
4991	39.82	23.75	23.63	1.0047
4991	19.90	11.91	11.80	1.0100
4991	9.92	5.95	5.90	1.0085
4991	0.00	0.00	0.21	As Found Zero
4991	39.82	23.75	23.97	As Found Span
Average Correction Factor				1.0077

Calculated value of As Found Response: 23.743 ppm Percent Change of As Found: 0.0%

	before calibration		after calibration	
Auto zero	0.25	ppm	-0.06	ppm
Auto span	20.12	ppm	19.94	ppm

 Notes: Replaced CO Filter Wheel
S/R ratio changing, Init Zero S/R ratio: 1.152539 is being set to match the Current S/R: 1.166467

 Calibration Performed By: Conor Whiteley

Calibration Summary

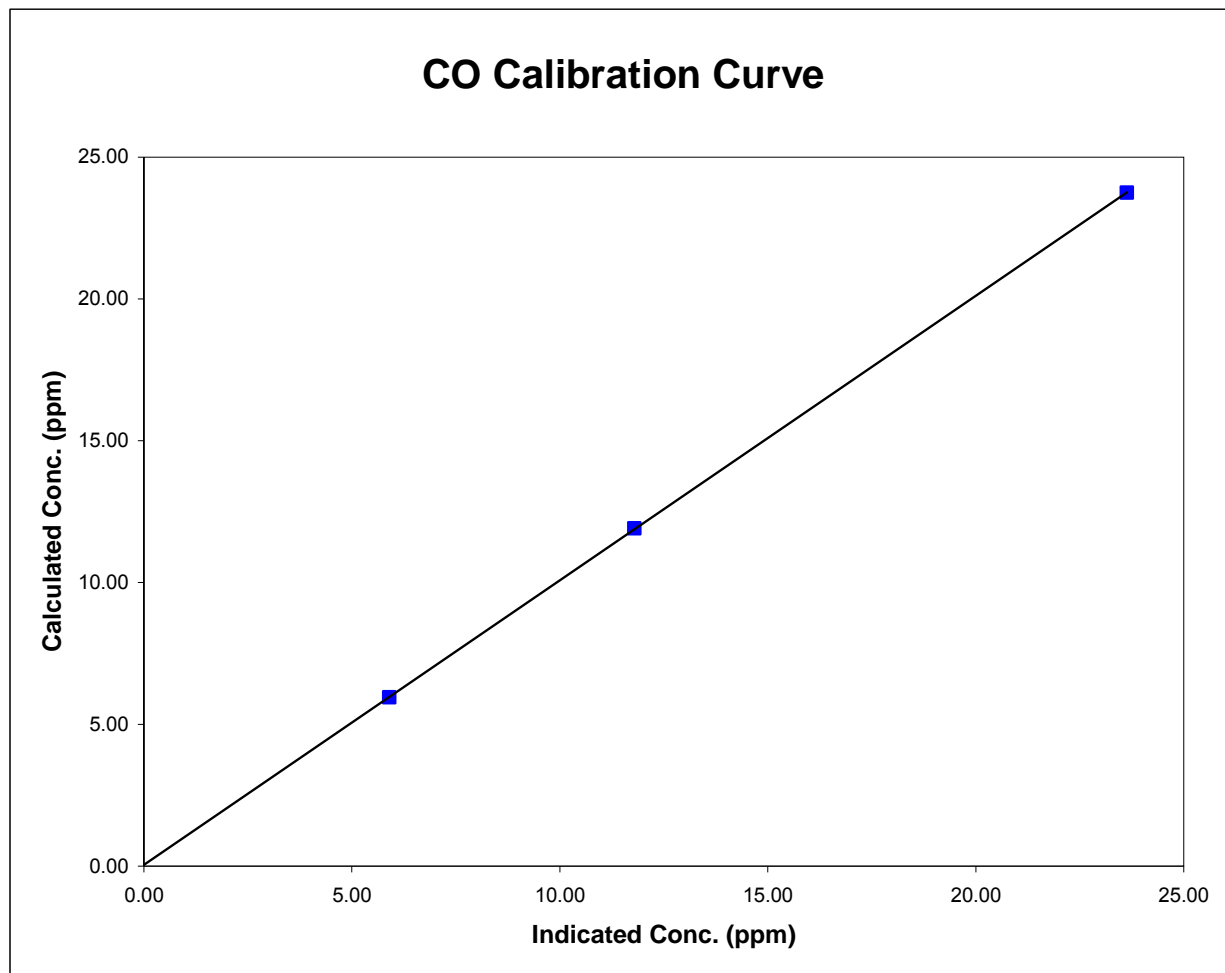
Parameter **CO**Air Monitoring Network **PASZA**

Station Information

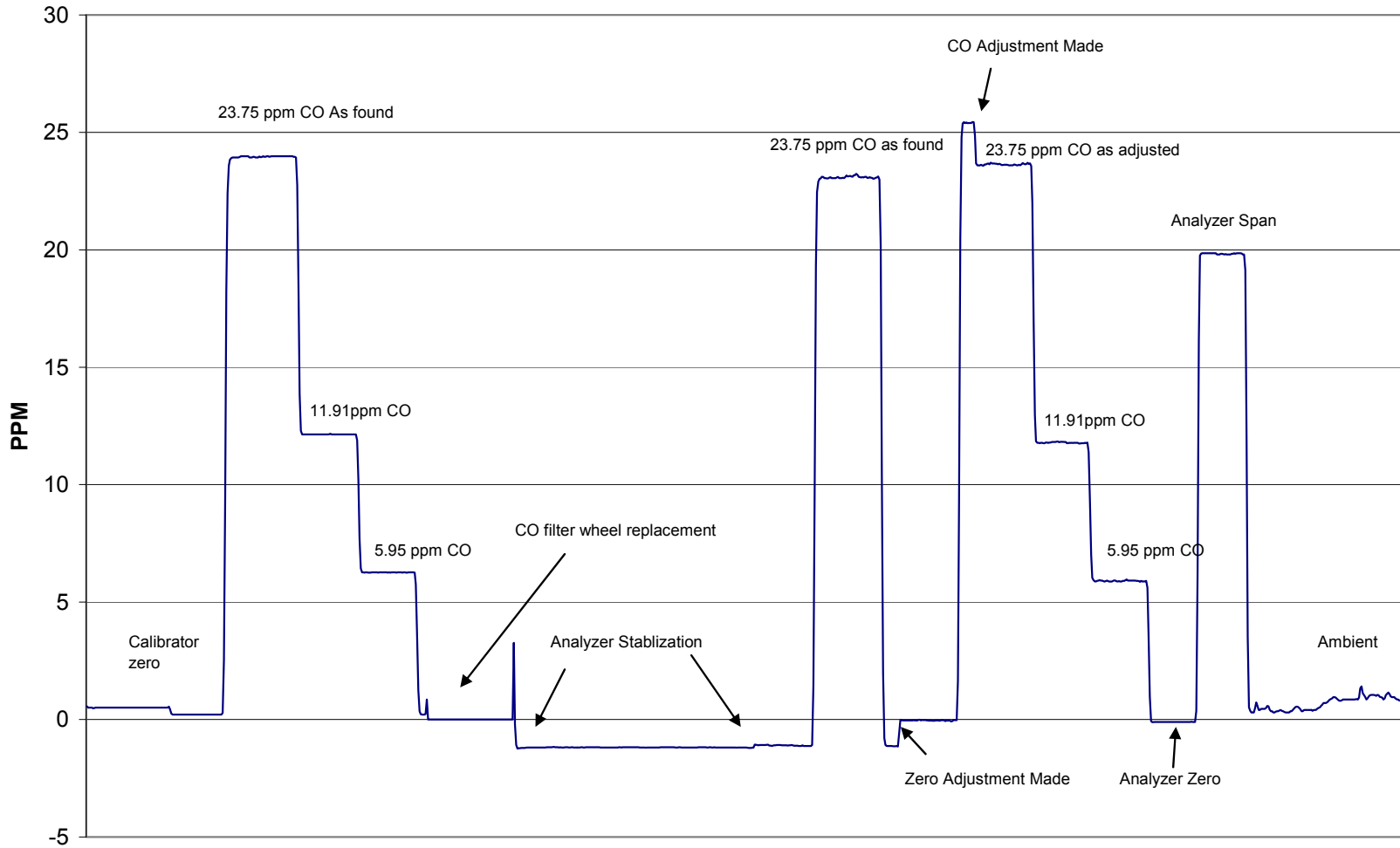
Calibration Date	March 5, 2008	Previous Calibration	February 8, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	10:00	End Time (MST)	17:50
Analyzer make/model	TEI Model 48C	Analyzer serial #	508011062

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.037	N/A		
23.746	23.635	1.0047	Correlation Coefficient	0.999995
11.914	11.796	1.0100		
5.951	5.901	1.0085	Slope	1.003421
			Intercept	0.043587



Henry Pirker CO Calibration



March 5, 2008

Calibration Report

Parameter **THC**Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 7, 2008	Previous Calibration	February 5, 2008
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	12:00	End Time (MST)	15:45
Barometric Pressure	0.918 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentration	700 ppm CH4/ 299 ppm C3H8	Cal Gas Expiry Date	12/10/2005
Cal Gas CH4 equiv	1522.25 ppm	Cal Gas Cylinder #	ALM 005412
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	0.990375	Calculated slope	1.003509
Calculated intercept	0.575651	Calculated intercept	-0.395536
Analyzer make	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
THC sample pressure	6.07	psi	6.11	psi
THC span counts	6921	capture	7170	capture
THC zero counts	1378	capture	1121	capture

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4990	0.00	0.00	0.41	N/A
4990	69.74	20.98	21.33	0.9839
4990	29.89	9.06	9.36	0.9679
4990	9.92	3.02	3.43	0.8808
4990	0.00	0.00	0.41	As Found Zero
4990	64.92	19.55	21.33	As Found Span
Average Correction Factor				0.9442

Calculated value of As Found Response: 21.292 ppm Percent Change of As Found: -8.9%

	before calibration		after calibration	
Auto zero	0.01	ppm	-0.03	ppm
Auto span	21.77	ppm	24.69	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

Parameter **THC**
Air Monitoring Network **PASZA**

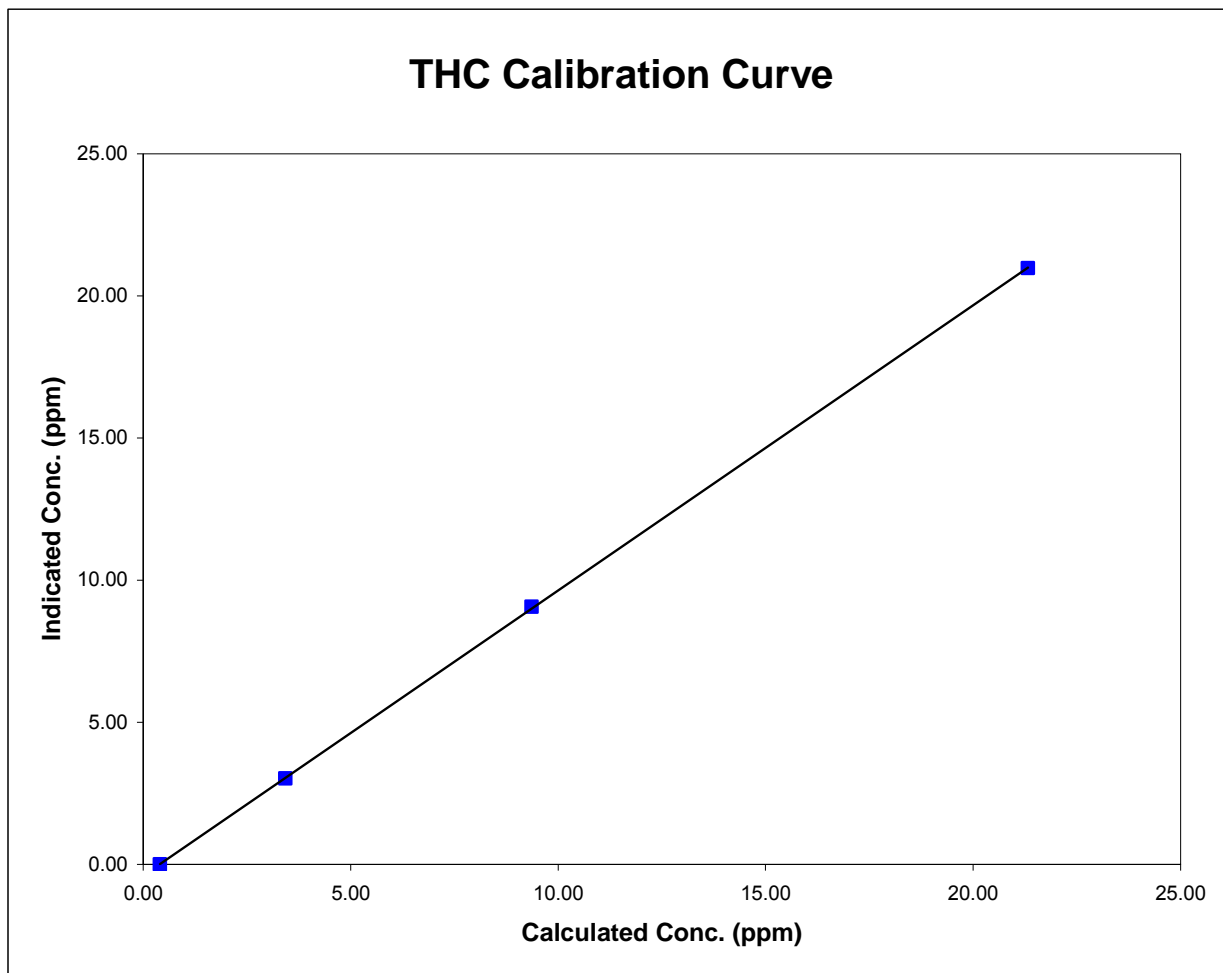


Station Information

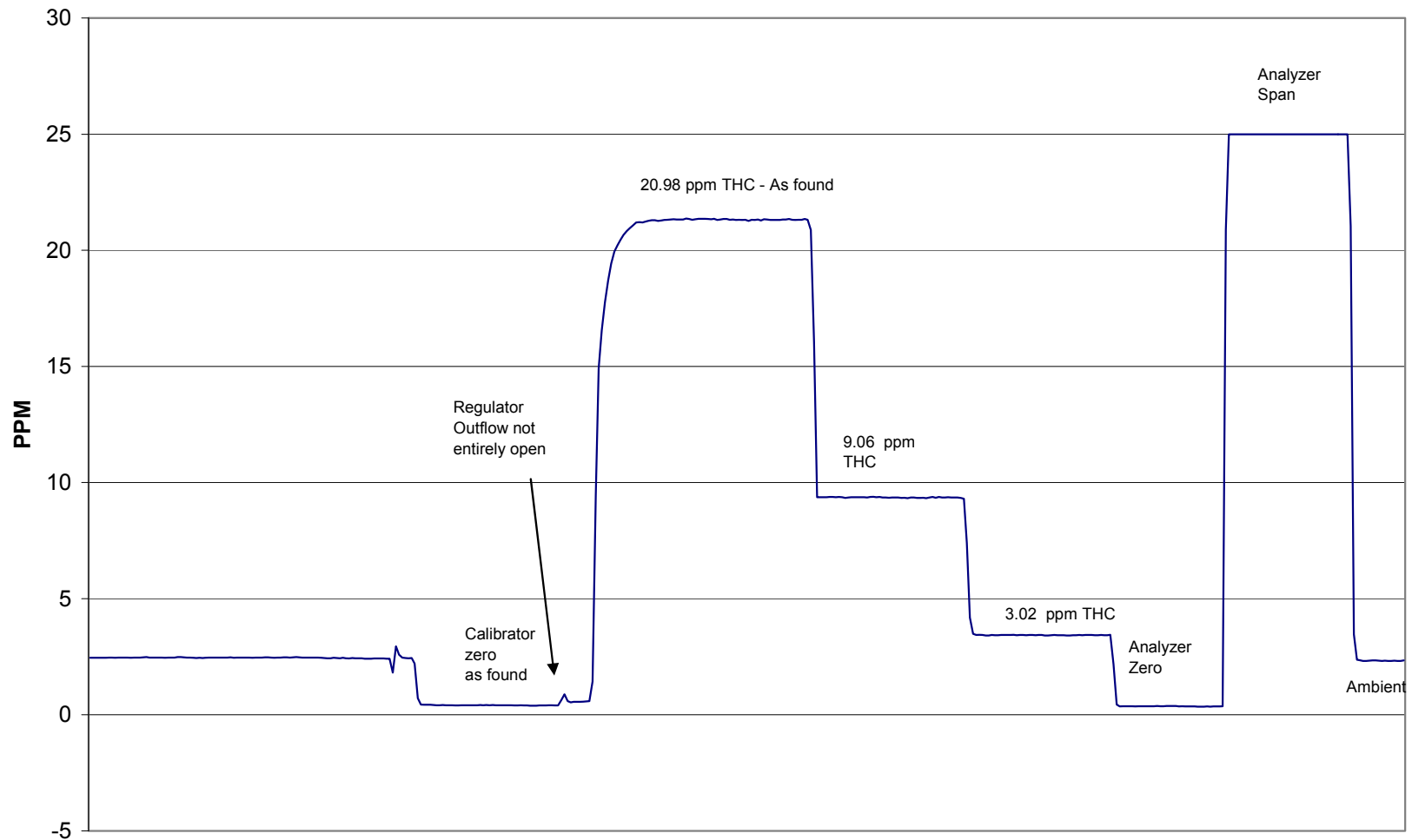
Calibration Date	March 7, 2008	Previous Calibration	February 5, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	12:00	End Time (MST)	15:45
Analyzer make/model	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.408	N/A		
20.982	21.325	0.9839	Correlation Coefficient	0.999980
9.064	9.365	0.9679		
3.020	3.429	0.8808	Slope	1.003509
			Intercept	-0.395536



Henry Pirker THC Calibration



March 7, 2008

Calibration Report

Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 7, 2008	Previous Calibration	February 1, 2008
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	8:30	End Time (MST)	12:40
Barometric Pressure	0.916 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	5.14 ppb	Cal Gas Expiry Date	7/31/2008
		Cal Gas Cylinder #	LL 74274
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	0.985088	Calculated slope	0.986664
Calculated intercept	-0.568152	Calculated intercept	0.339240
Analyzer make	TEI 45C	Analyzer serial #	630718528

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Coefficient	0.871		0.871	
Background	17.2		17.7	
Pressure	649.2	mm Hg	668.8	mm Hg
Flow	455	ccm	464	ccm
Lamp Voltage	865	V	851	V

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)
4988	0.00	0.00	-0.25	N/A
4988	69.76	70.89	71.49	0.9917
4988	39.84	40.73	41.00	0.9933
4988	9.93	10.21	9.86	1.0353
4990	0.00	0.00	-2.28	As Found Zero
4990	69.75	70.86	68.92	As Found Span
Average Correction Factor				1.0068

Calculated value of As Found Response: 69.6 ppb Percent Change of As Found: 1.8%

	before calibration		after calibration	
Auto zero	0.14	ppb	-0.17	ppb
Auto span	36.98	ppb	35.67	ppb

Notes: Adjusted ZeroCalibration Performed By: Conor Whiteley

Calibration Summary

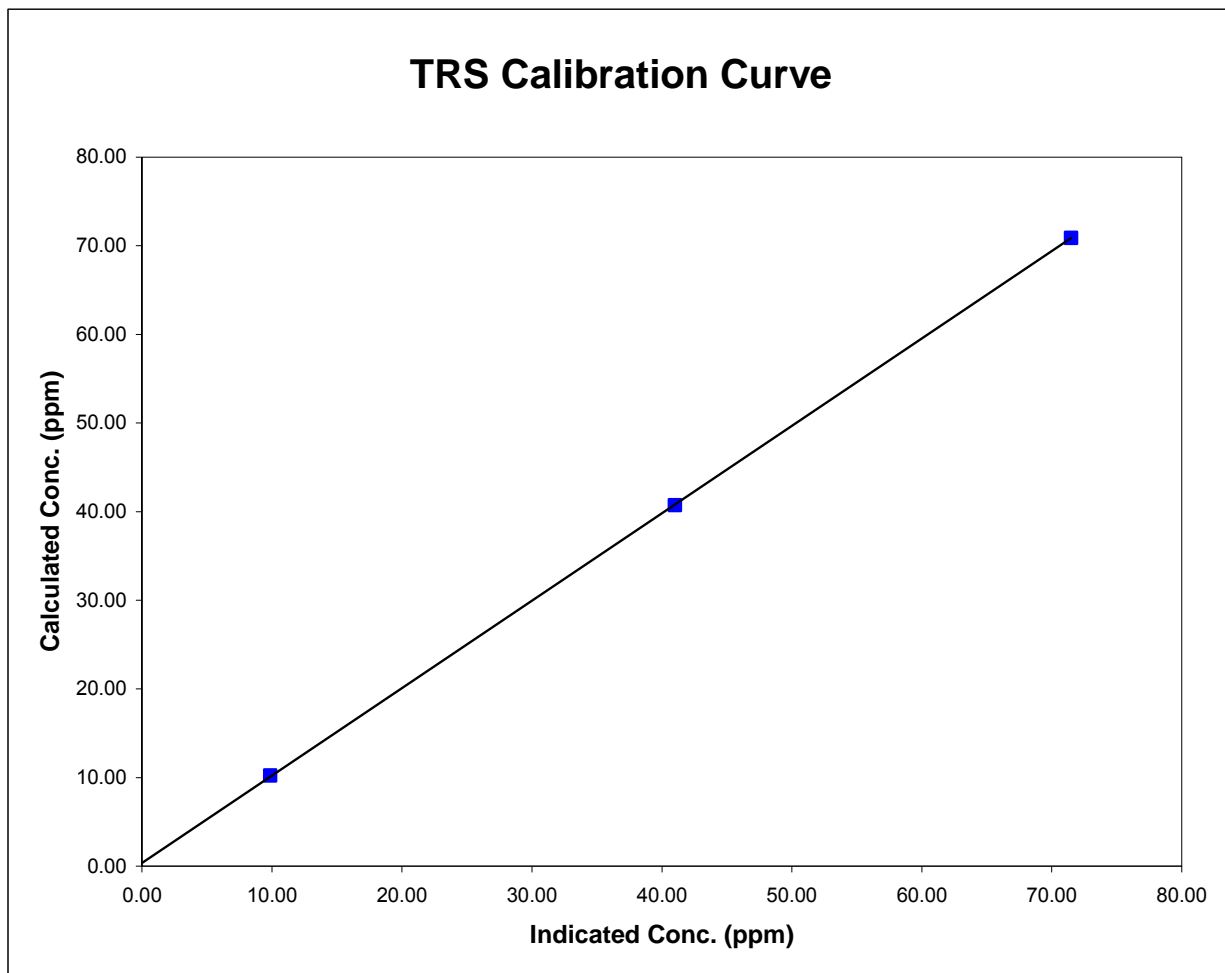
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

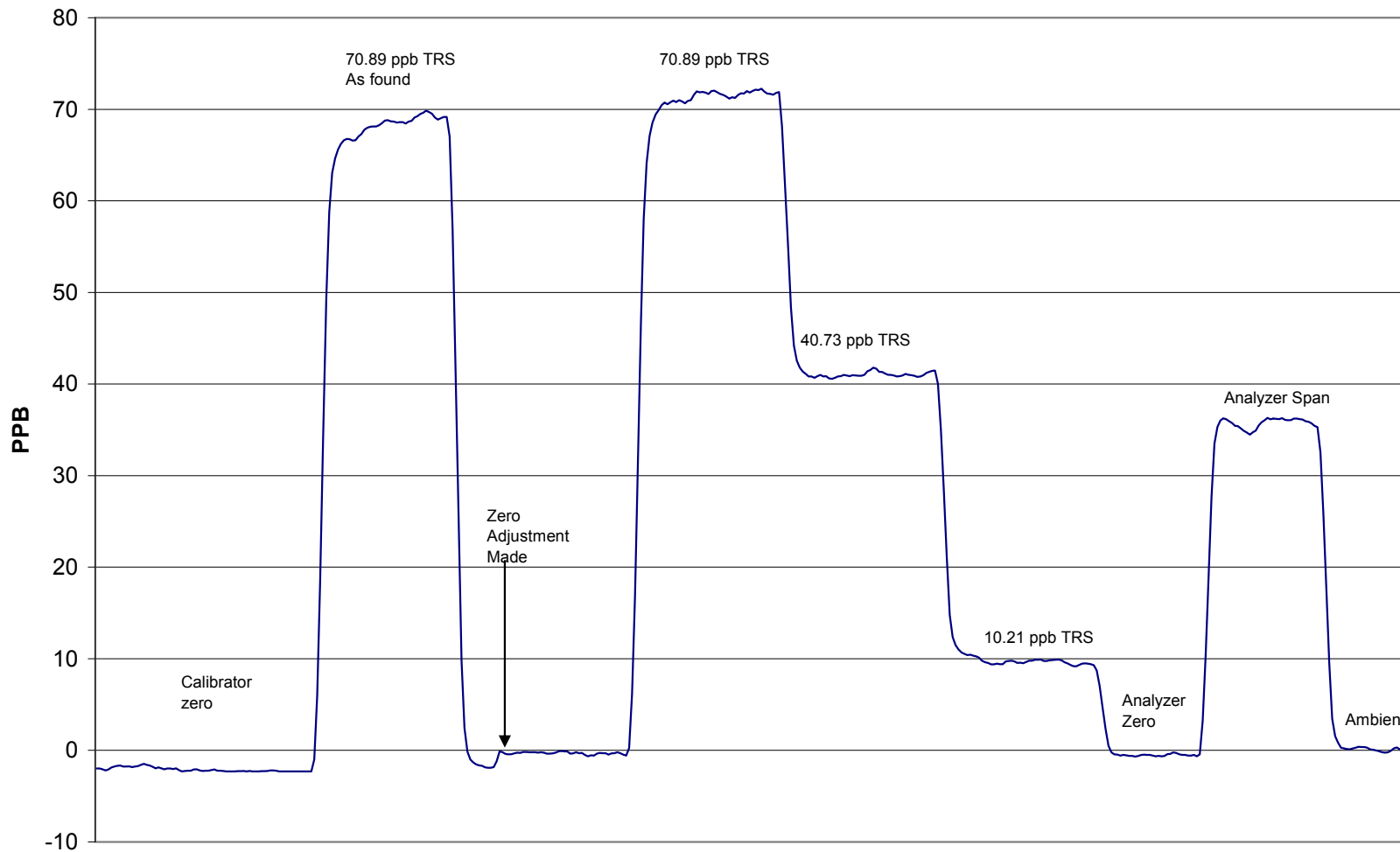
Calibration Date	March 7, 2008	Previous Calibration	February 1, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	8:30	End Time (MST)	12:40
Analyzer make/model	TEI 45C	Analyzer serial #	630718528

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.251	N/A		
70.894	71.489	0.9917	Correlation Coefficient	0.999989
40.729	41.005	0.9933		
10.212	9.864	1.0353	Slope	0.986664
			Intercept	0.339240



Henry Pirker TRS Calibration



March 7, 2008

Calibration Report



Parameter **SO₂**
 Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 12, 2008	Previous Calibration	February 14, 2008
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	12:20	End Time (MST)	14:45
Barometric Pressure	0.916 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	1/2/2009
Correction factor	0.031137	Cal Gas Cylinder #	LL16161
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	6
	Before		After
Calculated slope	1.010887	Calculated slope	1.012875
Calculated intercept	-2.282994	Calculated intercept	-2.061360
Analyzer make	Teco 43i	Analyzer serial #	701120008

	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
Background	8.9		8.9	
coefficient	0.928		0.928	
Lamp Voltage	821	volts	836	volts
Chamber Temp	45	Deg C	45.3	Deg C
Perm Gas Temp	44.99	Deg C	45.01	Deg C
Pressure	676	mm Hg	665.6	mm Hg
Sample Flow	452	ccm	447	ccm
Lamp Intensity	87	%	90	%

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)
4988	0.0	0.00	1.0	N/A
4988	39.82	398.37	394.9	1.0089
4990	19.91	199.90	199.8	1.0007
4990	9.95	100.10	102.0	0.9811
4988	0.0	0.00	1.0	As Found Zero
4988	39.9	399.27	394.9	As Found Span
Average Correction Factor				0.9969

Calculated value of As Found Response: 395.876 ppm Percent Change of As Found: 0.8%

	before calibration		after calibration	
Auto zero	-1.2	ppm	-1.1	ppm
Auto span	273.8	ppm	273.7	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

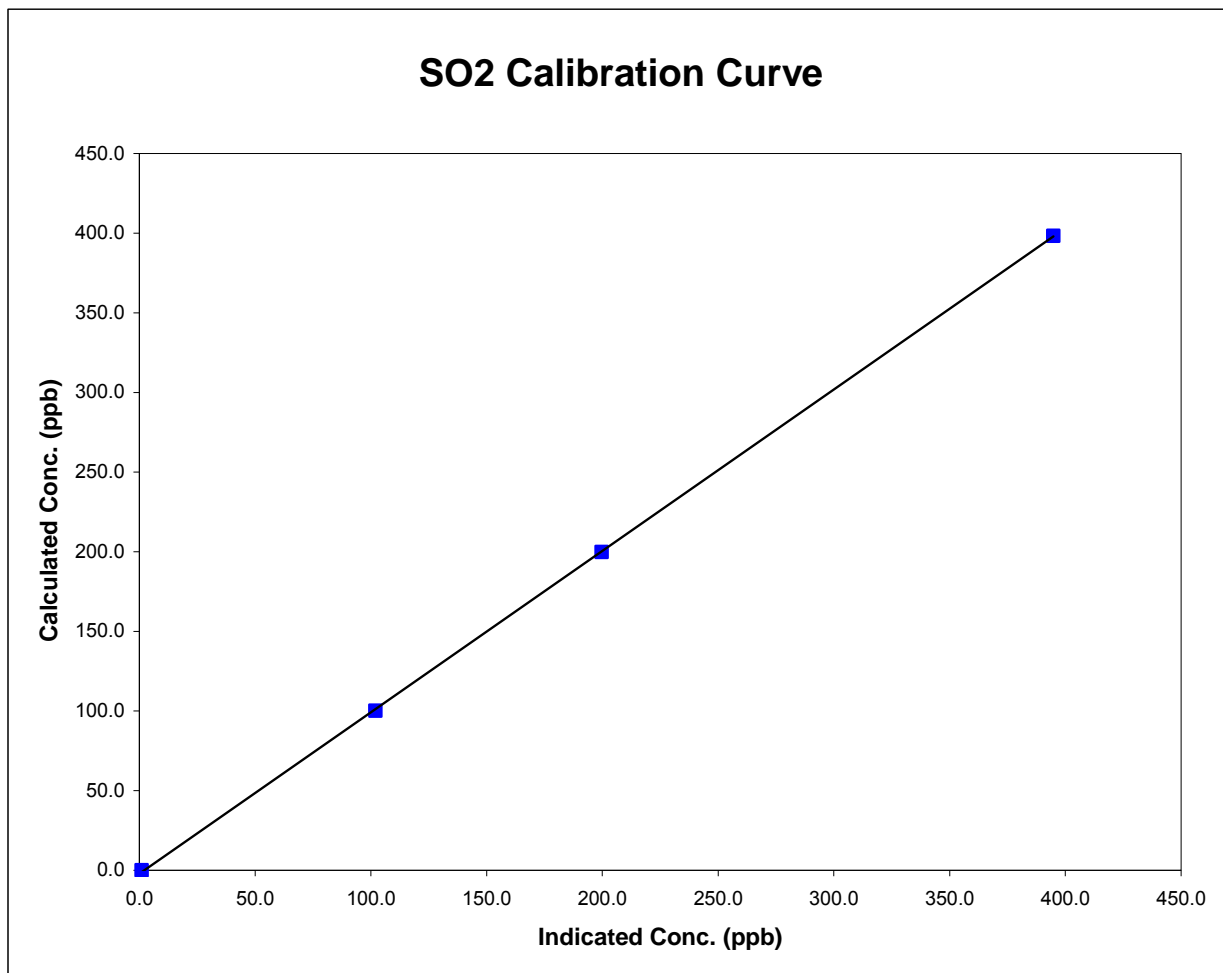
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

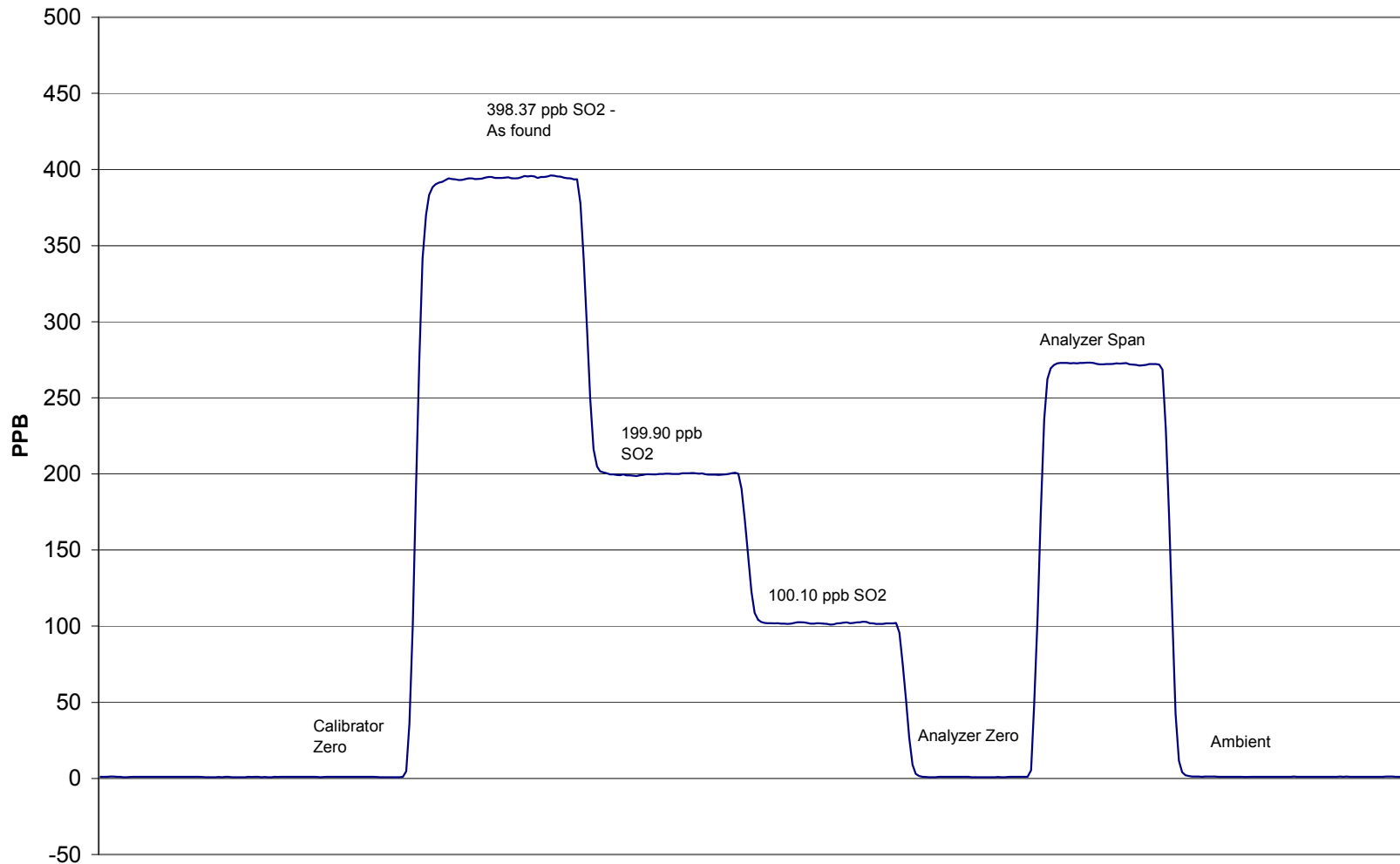
Calibration Date	March 12, 2008	Previous Calibration	February 14, 2008
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	12:20	End Time (MST)	14:45
Analyzer make/model	Teco 43i	Analyzer serial #	701120008

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.0	N/A		
398.4	394.9	1.0089	Correlation Coefficient	0.999967
199.9	199.8	1.0007		
100.1	102.0	0.9811	Slope	1.012875
			Intercept	-2.061360



Evergreen Park SO2 Calibration



March 12, 2008

Calibration Report

Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 12, 2007	Previous Calibration	February 14, 2007
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:30	End Time (MST)	12:00
Barometric Pressure	0.916 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	5.14 ppm	Cal Gas Expiry Date	7/31/2008
Correction factor	0.031137	Cal Gas Cylinder #	LL 74274
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	0.983440	Calculated slope	0.996670
Calculated intercept	1.050171	Calculated intercept	1.039243
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	19.6	ppb	15.2	ppb
coefficient	1.05		0.616	
Lamp Voltage	801	volts	825	volts
Chamber Temp	44.3	Deg C	44.3	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	640.7	mm Hg	628.6	mm Hg
Sample Flow	471	ccm	464	ccm
Lamp Intensity	43,289	mv	45,749	mv

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4988	0.00	0.00	-0.8	N/A
4988	79.82	80.96	80.3	1.0084
4988	39.83	40.72	39.7	1.0269
4988	9.90	10.18	9.0	1.1261
4988	0.00	0.00	-0.8	As Found Zero
4988	79.82	80.96	80.3	As Found Span
Average Correction Factor				1.0538

Calculated value of As Found Response: 80.83 ppm Percent Change of As Found: 0.2%

	before calibration		after calibration	
Auto zero	0.0	ppm	-0.1	ppm
Auto span	71.1	ppm	71.1	ppm

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary

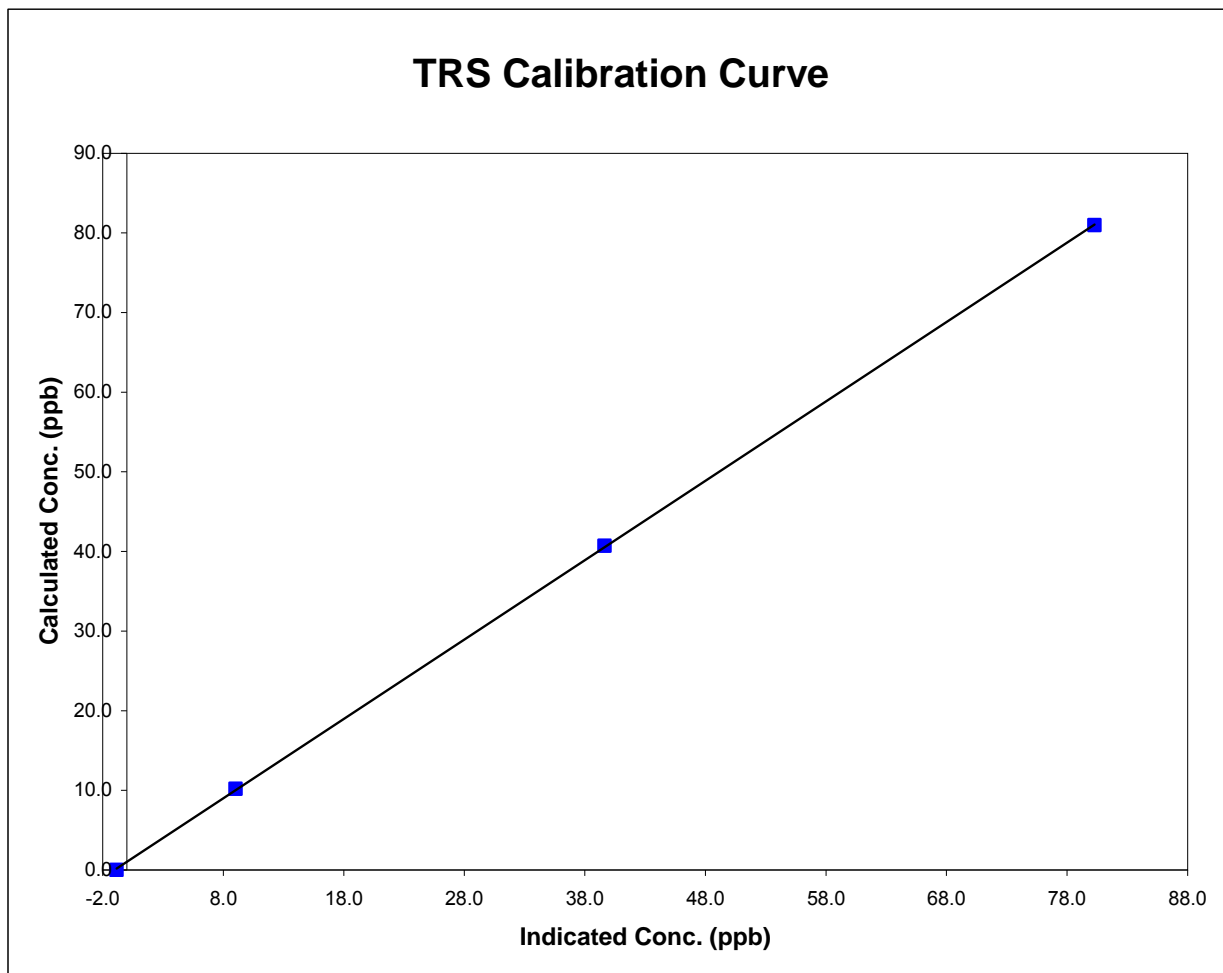
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

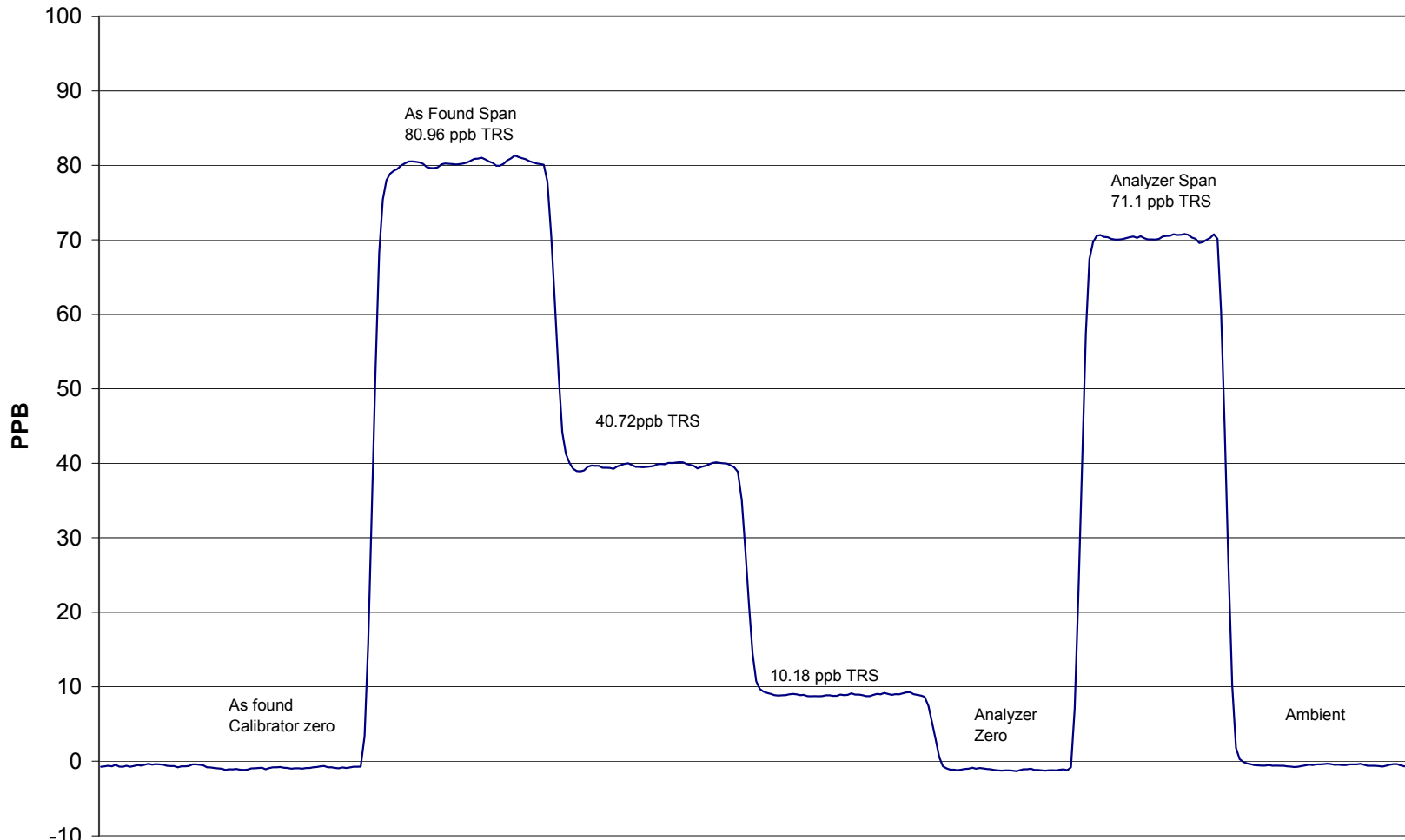
Calibration Date	March 12, 2007	Previous Calibration	February 14, 2007
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	9:30	End Time (MST)	12:00
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.8	N/A		
81.0	80.3	1.0084	Correlation Coefficient	0.999977
40.7	39.7	1.0269		
10.2	9.0	1.1261	Slope	0.996670
			Intercept	1.039243



Evergreen Park TRS Calibration



February 14, 2007

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

Calibration Date	March 12, 2008	Previous Calibration	September 4, 2007
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	12:00	End Time (MST)	
Barometric Pressure	0.916 ATM	Station Temperature	25.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15
	<u>Before</u>		<u>After</u>
DACS slope	0.050000	DACS slope	0.050000
DACS intercept	-50.000000	DACS intercept	-50.000000

Analyzer Information

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

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	45	%	17	%
Ko Factor	10124		10124	
Temperature	20.0	Deg C	20.0	Deg C
Pressure	0.916	ATM	0.927	ATM

Calibration Data

Parameter	Set Point	As Found	Tolerance	TEOM Reading
zero flow - main	0.0	0.00		0.00
zero flow - auxillary	0.0	-0.05		-0.04
flow recovery - main	45 - 60 Seconds	40.0	45 - 60 Seconds	50.0
flow recovery - aux	46 - 60 Seconds	45.0	46 - 60 Seconds	55.0
Temperature	measured	2.9	+/- 1.0 Deg C	2.5
Pressure	measured	0.916	+/- 1.5% ΔATM	0.926
Total Flow	16.67 SLPM	16.85		
Main Flow	3.00 SLPM	3.03	+/- 1.0 SLPM	3.00
Auxillary Flow	13.67 SLPM	13.850	+/- 0.2 SLPM	13.660
Leak Check - main	0.0	0.01	<0.15 SLPM	0.01
Leak Check - aux	0.0	0.11	<0.15 SLPM	0.11
Ko Factor (w/o filter)	measured	n/a	filter weight (g)	0.11012
Ko Factor (w/ filter)	measured	n/a	% Ko difference	N/A

Notes: No adjustments madeCalibration Performed By: Conor Whiteley

Calibration Report



Parameter

SO₂

Air Monitoring Network

PASZA

Station Information

Calibration Date	March 19, 2008	Previous Calibration	February 13, 2008
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:30	End Time (MST)	13:30
Barometric Pressure	0.917 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	1/2/2009
Correction factor	0.031171	Cal Gas Cylinder #	LL16161
DACS make	Focus AP1000	DACS serial No.	45272
DACS voltage range	0 - 10 volt	DACS channel #	6
	Before		After
Calculated slope	0.996052	Calculated slope	1.006995
Calculated intercept	-1.676585	Calculated intercept	-1.523902
Analyzer make	Teco 43i	Analyzer serial #	701120009

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	6.6		6.4	
coefficient	0.745		0.722	
Lamp Voltage	941	volts	940	volts
Chamber Temp	45.3	Deg C	44.9	Deg C
Perm Gas Temp	44.99	Deg C	45	Deg C
Pressure	673.2	mm Hg	663.7	mm Hg
Sample Flow	447	ccm	441	ccm
Lamp Intensity	87	%	87	%

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)
4988	0.0	0.00	0.3	N/A
4989	39.83	398.39	396.4	1.0050
4989	19.90	199.84	200.9	0.9947
4988	9.93	99.94	101.7	0.9825
4988	0.0	0.00	0.3	As Found Zero
4988	39.92	399.37	407.3	As Found Span
Average Correction Factor				0.9940

Calculated value of As Found Response: 403.702 ppm Percent Change of As Found: -1.1%

	before calibration		after calibration	
Auto zero	-1.4	ppm	-1.2	ppm
Auto span	310.2	ppm	311.1	ppm

Notes: Analyzer Span adjusted

Calibration Performed By: Conor Whiteley

Calibration Summary

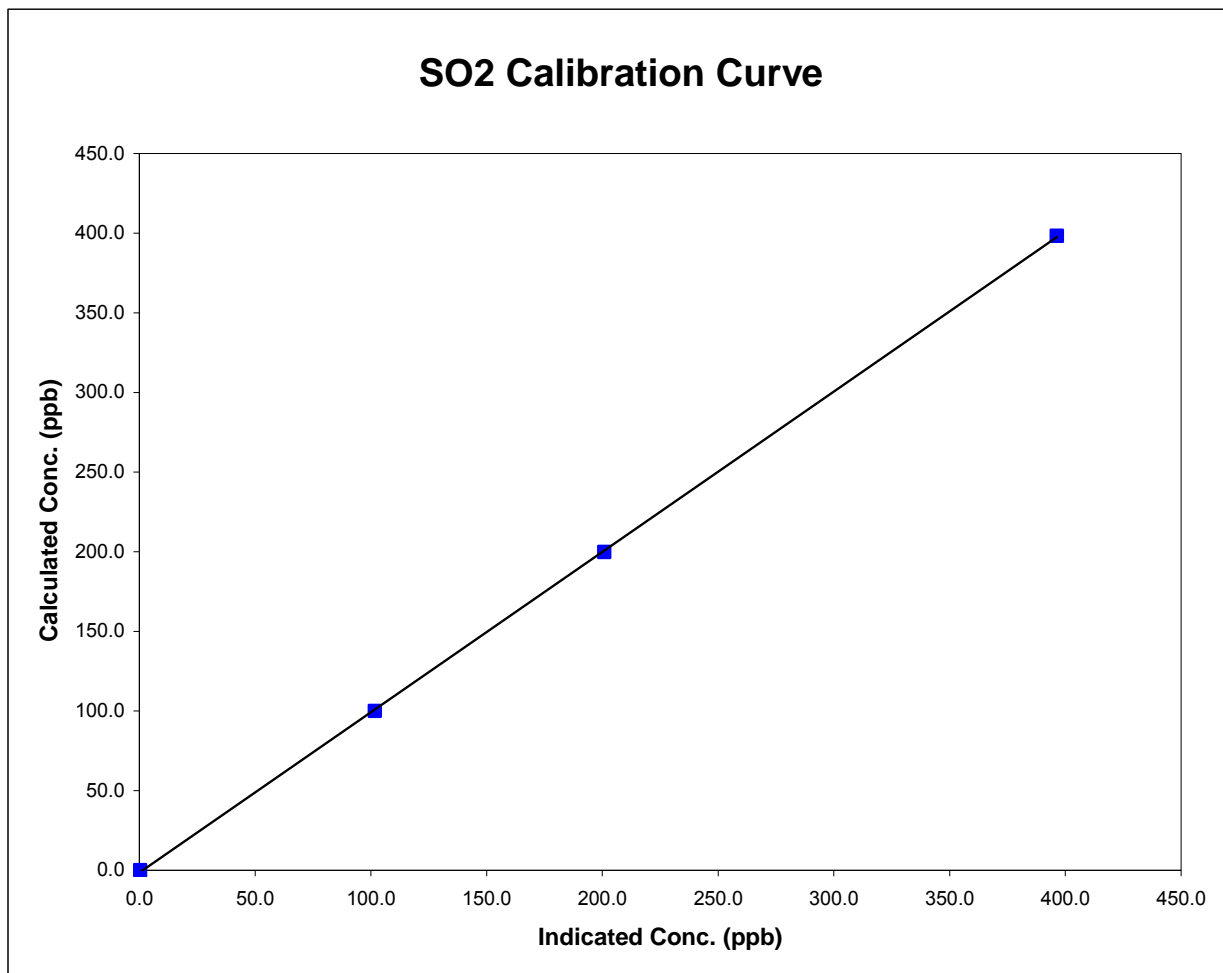
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

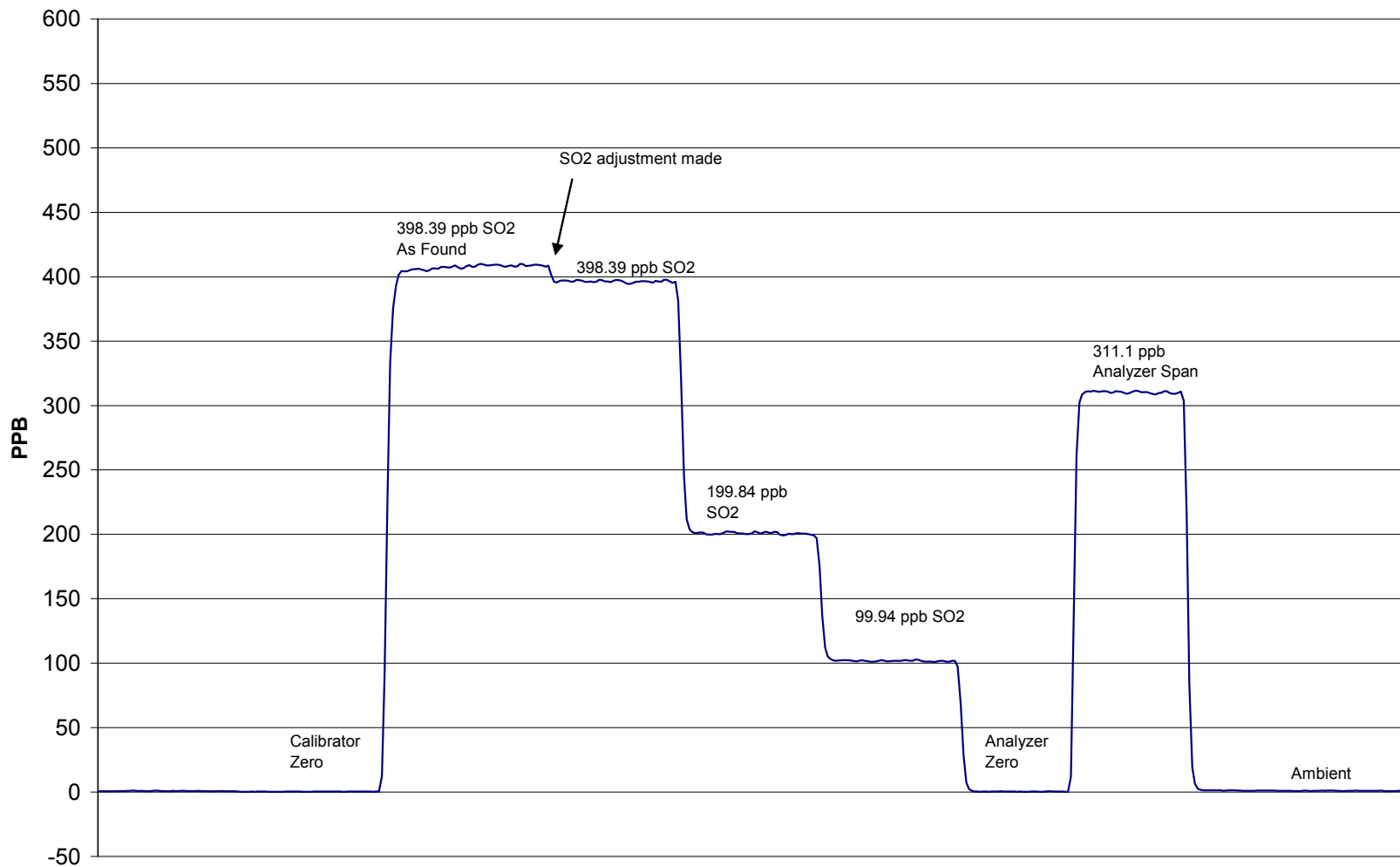
Calibration Date	March 19, 2008	Previous Calibration	February 13, 2008
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	10:30	End Time (MST)	13:30
Analyzer make/model	Teco 43i	Analyzer serial #	701120009

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	N/A		
398.4	396.4	1.0050	Correlation Coefficient	0.999956
199.8	200.9	0.9947		
99.9	101.7	0.9825	Slope	1.006995
			Intercept	-1.523902



Smoky Heights SO2 Calibration



March 19, 2008

Calibration Report

Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 19, 2008	Previous Calibration	February 13, 2008
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	12:40	End Time (MST)	15:30
Barometric Pressure	0.917 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	5.14 ppm	Cal Gas Expiry Date	7/31/2008
Correction factor	0.031171	Cal Gas Cylinder #	LL 74274
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	1.017339	Calculated slope	1.022138
Calculated intercept	-0.653226	Calculated intercept	-0.846310
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	100	ppb	100	ppb
Background	11.6	ppb	11.3	ppb
coefficient	1.006		1.006	
Lamp Voltage	776	volts	772	volts
Chamber Temp	44	Deg C	44	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	477	mm Hg	496.6	mm Hg
Sample Flow	742	ccm	764	ccm
Lamp Intensity	32,285	mv	32,537	mv

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4988	0.0	0.00	0.8	N/A
4988	79.83	80.97	80.0	1.0123
4988	39.90	40.79	40.9	0.9981
4990	9.95	10.23	10.8	0.9508
4988	0.0	0.00	0.8	As Found Zero
4988	79.83	80.97	80.0	As Found Span
Average Correction Factor				0.9871

Calculated value of As Found Response: 79.87 ppm Percent Change of As Found: 1.4%

	before calibration		after calibration	
Auto zero	0.2	ppm	0.0	ppm
Auto span	43.0	ppm	43.2	ppm

Notes: No Adjustments Made

Calibration Performed By: Conor Whiteley

Calibration Summary

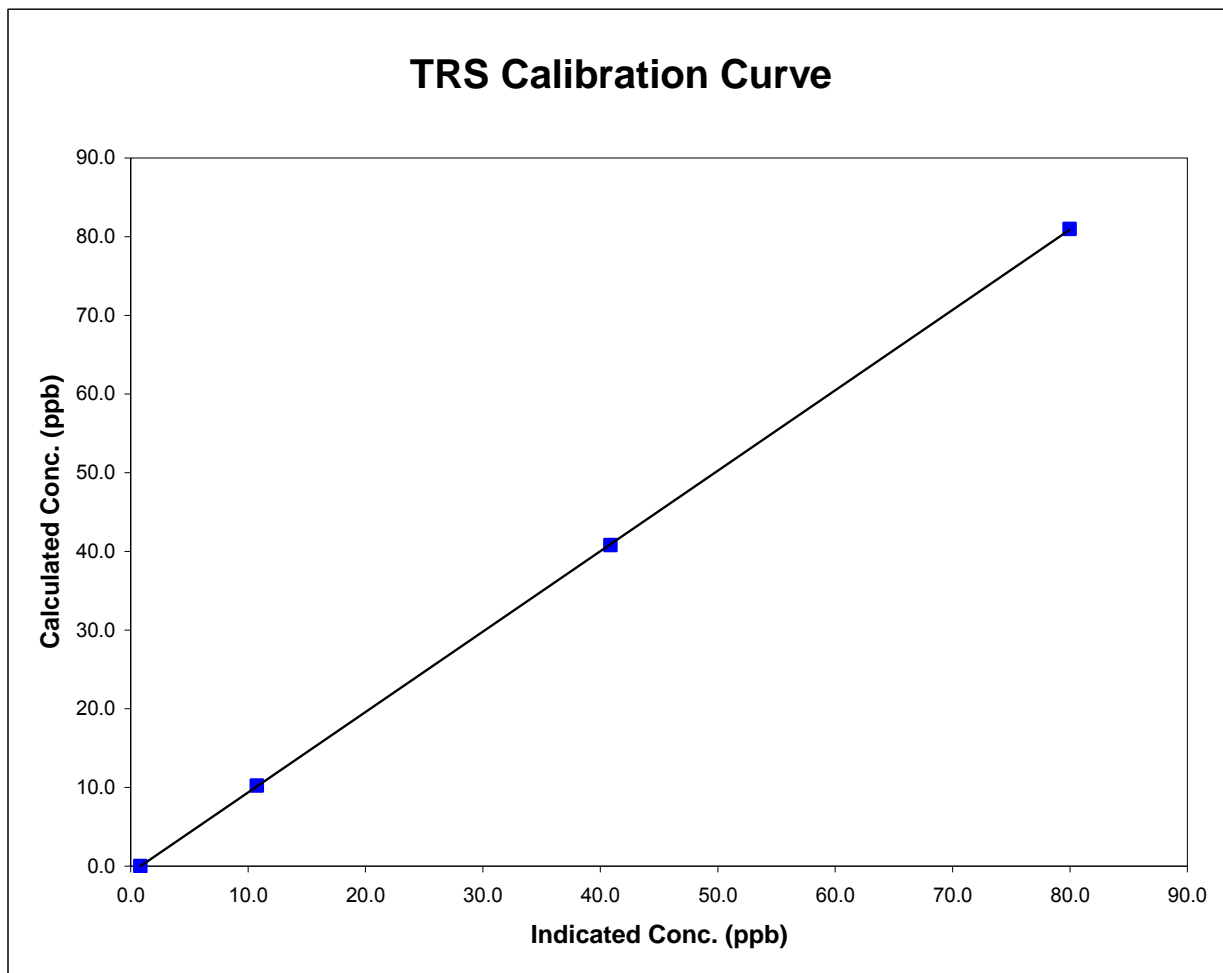
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

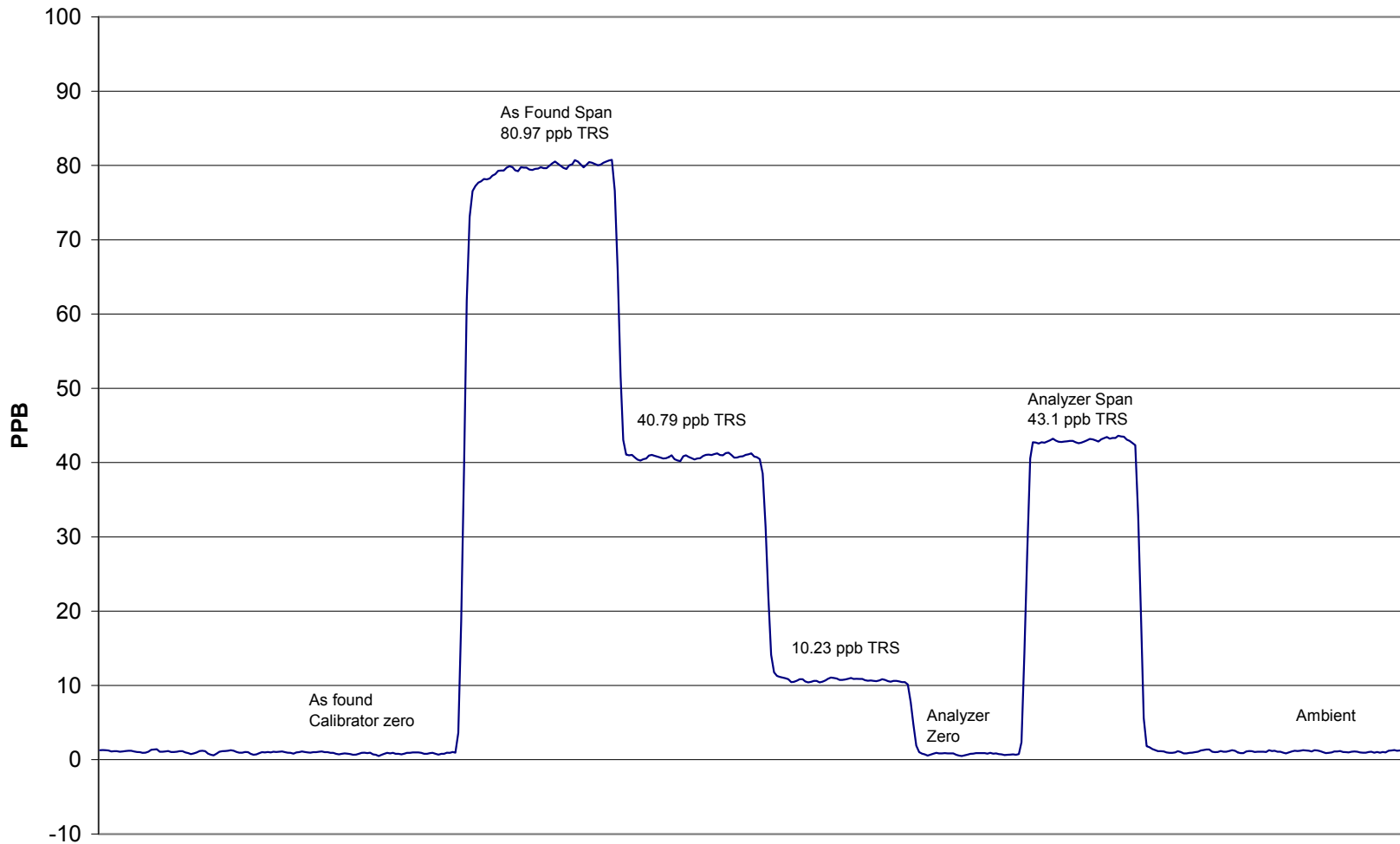
Calibration Date	March 19, 2008	Previous Calibration	February 13, 2008
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	12:40	End Time (MST)	15:30
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.8	N/A		
81.0	80.0	1.0123	Correlation Coefficient	0.999993
40.8	40.9	0.9981		
10.2	10.8	0.9508	Slope	1.022138
			Intercept	-0.846310



Smoky Heights TRS Calibration



March 19, 2008

Calibration Report

Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 14, 2008	Previous Calibration	February 11, 2008
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:20	End Time (MST)	11:25
Barometric Pressure	0.904 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	10.06 ppm	Cal Gas Expiry Date	7/27/2009
Gas Cert Reference	CC 114395		
DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.998810	Calculated slope	0.984884
Calculated intercept	-0.197673	Calculated intercept	-0.610164
Analyzer make	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	2.67		2.68	
Coefficient	0.99		0.99	
PMT	-812.9	V	-812	V
UV Lamp Voltage	1030	V	1032	V
Chamber Temp	44.7	Deg C	45	Deg C
Pressure	668.8	mm Hg	662.5	mm Hg
Sample Flow	0.471	LPM	0.467	LPM
Lamp Intesity	84%	%	85%	%

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4990	0.00	0.0	-0.1	N/A
4990	39.86	79.7	81.0	0.9838
4990	19.93	40.0	42.1	0.9513
4990	9.92	20.0	21.3	0.9369
4990	0.00	0.0	-0.1	As found zero
4990	39.86	79.7	81.0	As found span
Average Correction Factor				0.9573

Calculated value of As Found Response: 80.804 ppm Percent Change of As Found: -1.4%

	before calibration		after calibration	
Auto zero	-0.3	ppm	-0.8	ppm
Auto span	54.3	ppm	55.4	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

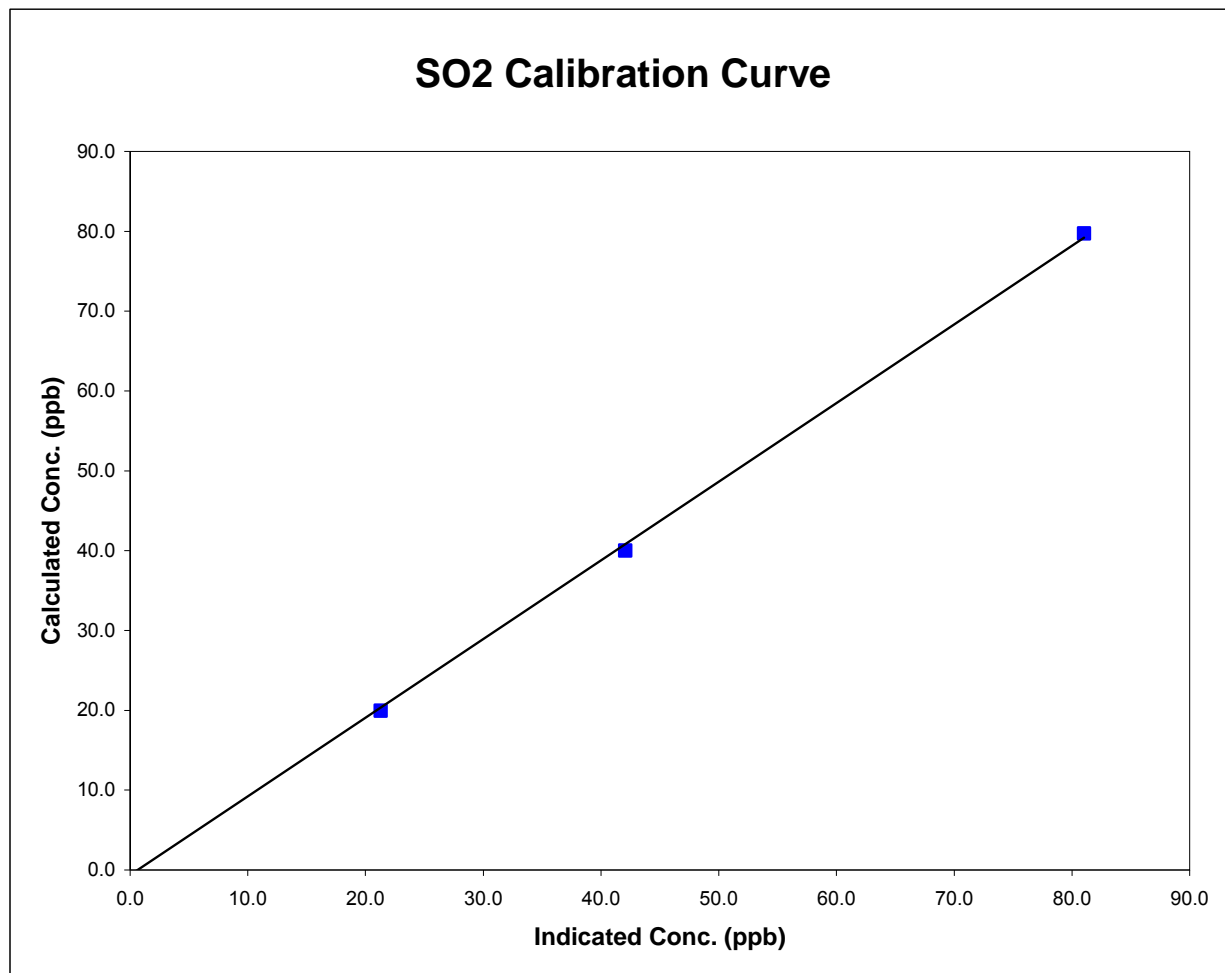
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

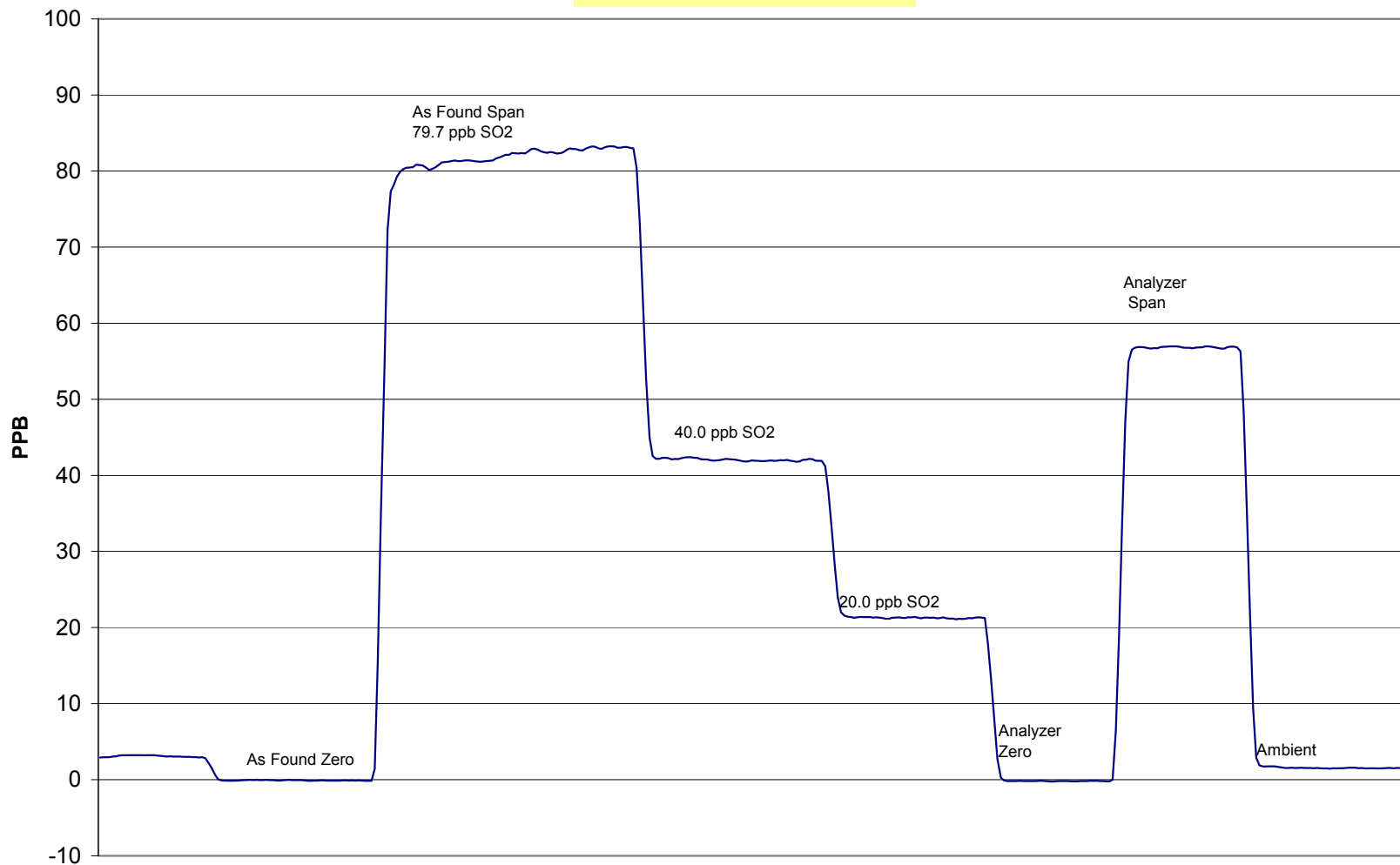
Calibration Date	March 14, 2008	Previous Calibration	February 11, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	9:20	End Time (MST)	11:25
Analyzer make/model	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A		
79.7	81.0	0.9838	Correlation Coefficient	0.999549
40.0	42.1	0.9513		
20.0	21.3	0.9369	Slope	0.984884
			Intercept	-0.610164



Beaverlodge SO2 Calibration



March 14, 2008

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA



Station Information

Calibration Date	March 14, 2008	Previous Calibration	February 11, 2008
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Installation	<input type="checkbox"/> Removal
Start Time (MST)	9:20:00	End Time (MST)	13:14:00
Barometric Pressure	0.904 Atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
NO Cal Gas Conc	50.1 ppm	Cal Gas Cert. Date	2-Jan-07
NOx Cal Gas Conc	50.2 ppm	Cal Gas Serial #	CC 114395

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	45269
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Parameter		NO2	NOx	NO
Before	Data Slope	1.006341	1.004298	0.999165
	Data Offset	0.780289	-1.051877	-0.951818
After	Data Slope	1.012097	1.007891	0.999005
	Data Offset	1.285719	-0.969304	-1.041474
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
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Test Point	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
NO background	1.3	ppb	1.3	mV
NOx background	1.3	ppb	1.3	mV
NO coefficient	1.034		1.034	
NOx coefficient	0.999		0.999	
PMT Voltage	-636	V	-636	V
Chamber Temp	49.4	Deg C	49.3	Deg C
Cooler Temp	-2.0	Deg C	-2.0	Deg C
Converter Temp	324.0	Deg C	324.0	Deg C
Sample Flow	0.805	LPM	0.791	LPM
Ozonator Flow	0.084	LPM	0.085	LPM
Pressure	173.3	mm Hg	170.8	mm Hg

Notes:

Calibration Report

Parameter

NO_x-NO-NO₂

Air Monitoring Network

PASZA



Station Information

Calibration Date: March 14, 2008

Station Location: Beaverlodge

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	4990	0.00	0.0	0.0	0.0	-0.3	-0.4	-0.3	N/A	N/A
1	4990	39.86	397.8	397.0	0.8	395.1	397.6	-3.0	1.0068	0.9985
2	4990	19.93	199.7	199.3	0.4	199.5	201.6	-2.3	1.0012	0.9888
3	4990	9.92	99.6	99.4	0.2	101.2	101.8	-1.3	0.9840	0.9767
AFZ	4990	0.00	0.0	0.0	0.0	-0.3	-0.4	-0.3	0.0000	0.0000
AFS	4990	39.92	398.4	397.6	0.8	395.1	397.6	-3.0	1.0083	1.0000
Average Correction Factor									0.9974	0.9880

As Found Concentrations: NO_x= 394.3 NO= 397.1 As Found Percent Change NO_x= -1.0% NO= -0.1%

GPT Calibration Data

Dilution Flow 4990 ccm Source Gas Flow 39.86 ccm

O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	394.4	394.5	-0.1	392.3	395.9	-3.9	1.0051	0.9964	N/A	N/A
300	394.4	112.0	282.4	392.4	113.1	278.6	1.0050	0.9898	1.0136	98.7%
200	394.4	199.5	194.8	391.9	200.8	190.5	1.0063	0.9938	1.0224	97.8%
100	394.4	292.0	102.4	392.4	293.3	98.8	1.0050	0.9955	1.0365	96.5%
Average Correction Factor							1.0054	0.9930	1.0242	97.6%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	-1.3	0.5	-1.3	ppb	-1.2	1.0	-1.4	ppb
Auto span	474.1	2.0	469.9	ppb	478.6	-1.4	476.4	ppb

Calibration Performed By: Conor Whiteley

Beaverlodge NOx Calibration



March 14, 2008

Calibration Summary

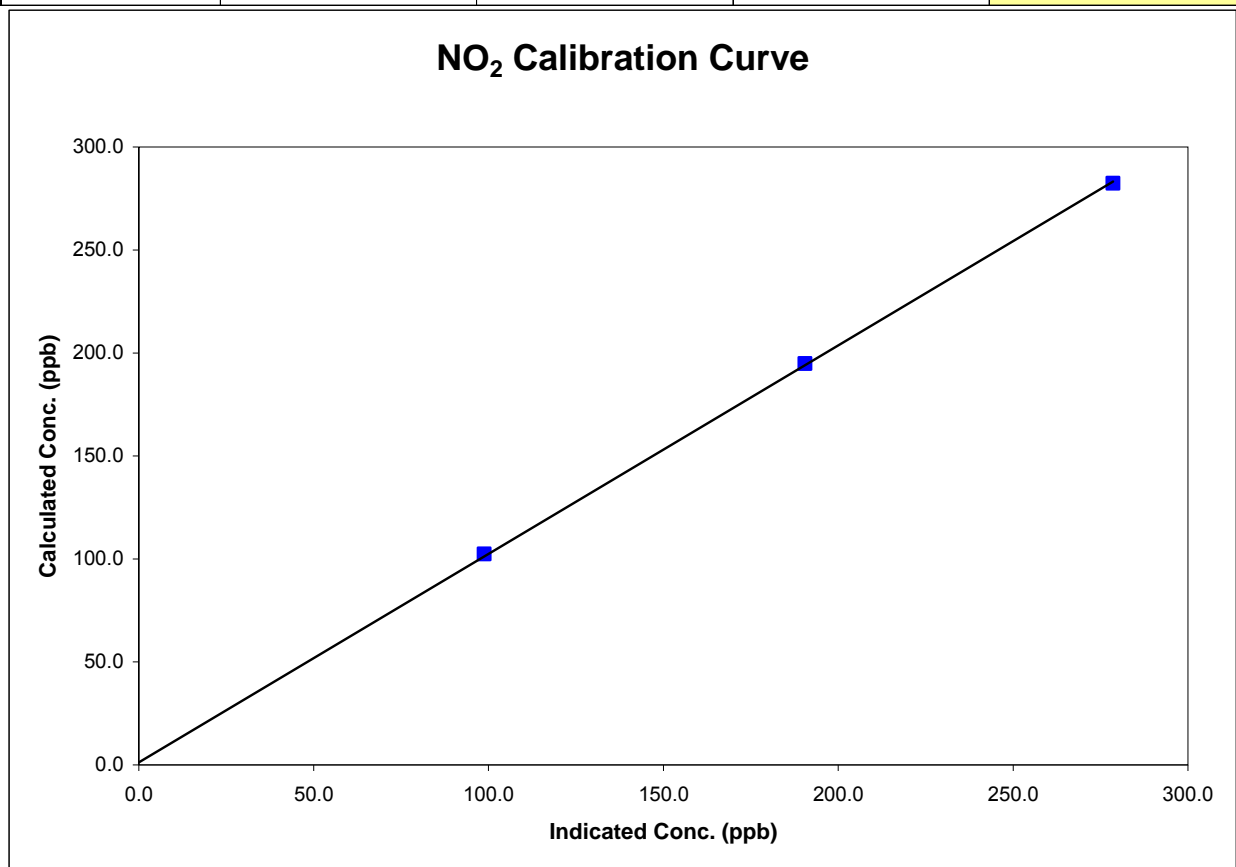
Parameter **NO₂**Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 14, 2008	Previous Calibration	February 11, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	9:20	End Time (MST)	13:14
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		
282.4	278.6	1.0136	Correlation Coefficient	0.999925
194.8	190.5	1.0224		
102.4	98.8	1.0365	Slope	1.012097
			Intercept	1.285719



Calibration Summary

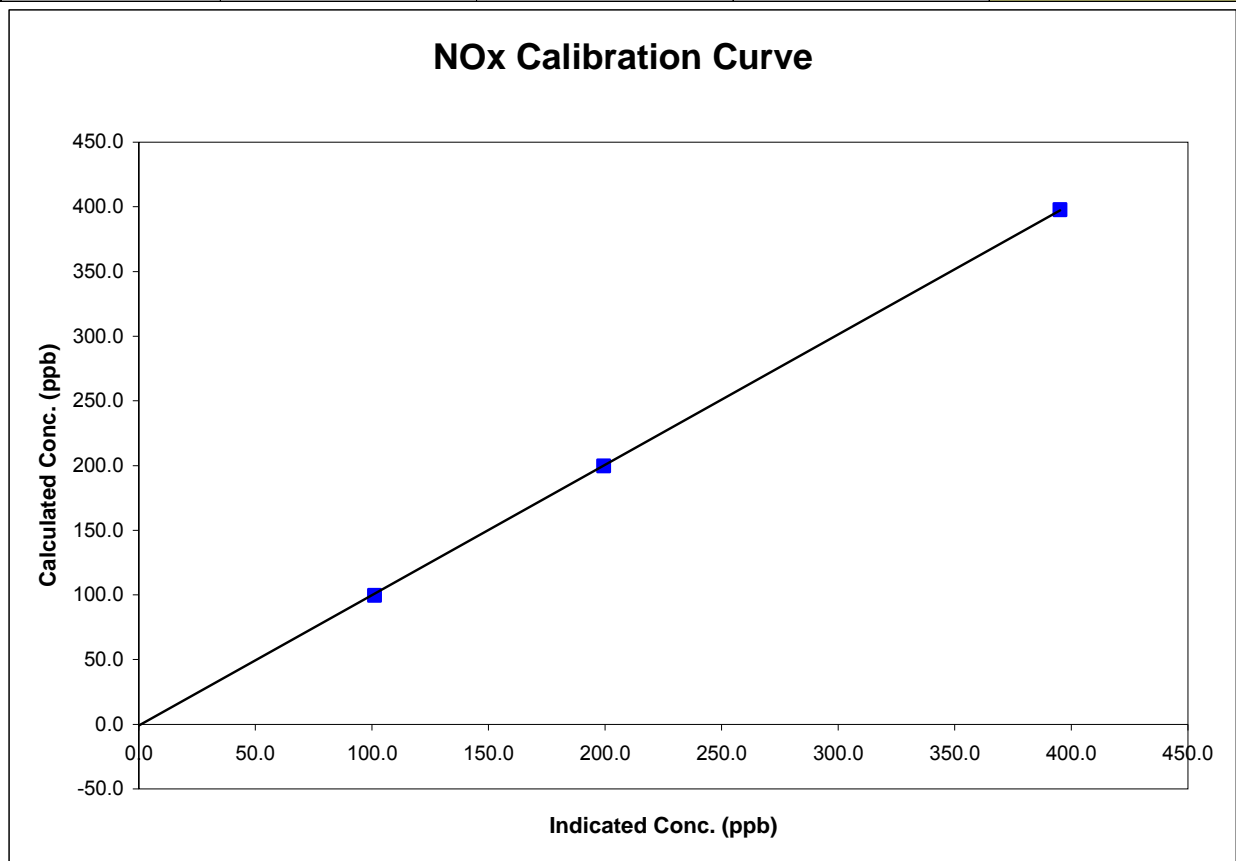
Parameter **NO_x**Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 14, 2008	Previous Calibration	February 11, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	9:20	End Time (MST)	13:14
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		
397.8	395.1	1.0068	Correlation Coefficient	0.999953
199.7	199.5	1.0012		
99.6	101.2	0.9840	Slope	1.007891
			Intercept	-0.969304



Calibration Summary



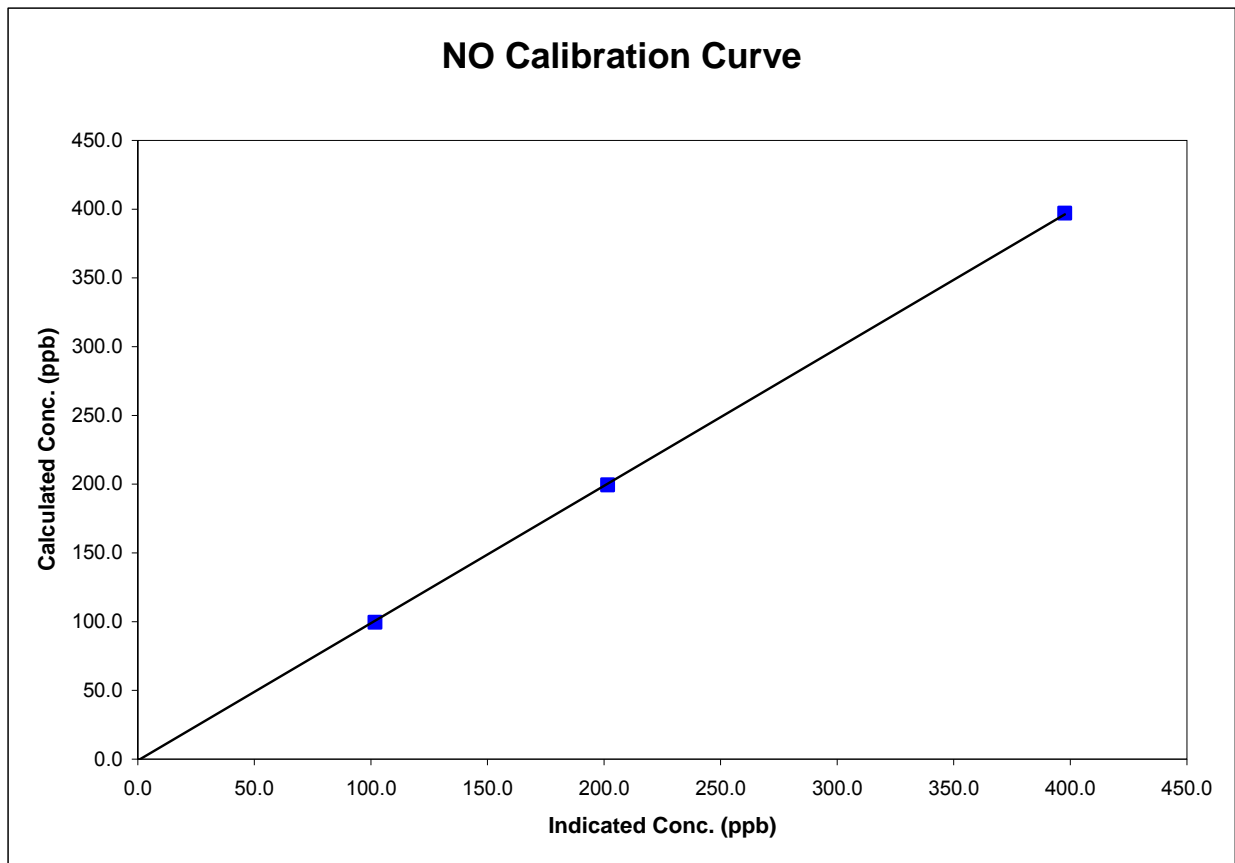
Parameter **NO**
 Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 14, 2008	Previous Calibration	February 11, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	9:20	End Time (MST)	13:14
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		
397.0	397.6	0.9985	Correlation Coefficient	0.999939
199.3	201.6	0.9888		
99.4	101.8	0.9767		
			Slope	0.999005
			Intercept	-1.041474



Calibration ReportParameter **O3**Air Monitoring Network **PASZA****Station Information**

Calibration Date	March 14, 2008	Previous Calibration	February 11, 2008
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	12:20	End Time (MST)	15:00
Barometric Pressure	0.904 atm	Station Temperature	20.0 Deg C
Calibrator	Enviroics 6100	Serial Number	3474
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 1 volt	DACS channel #	5
	Before		After
Calculated slope	1.000951	Calculated slope	1.027407
Calculated intercept	1.224968	Calculated intercept	1.533421
Analyzer make	Teco 49C	Analyzer serial #	49C-76443-383

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
offset	-0.20	ppb	-0.20	ppb
slope	0.978		0.978	
Lamp temp	56.3	mV	56.4	mV
Lamp Intensity A/B	78046/75580	mV	79000/77185	mV
Pressure	645.8	mm Hg	647.2	mm Hg
Flow A	724	ccm	724	ccm
Flow B	677	ccm	676	ccm

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4990	0.00	0.0	0.0	N/A
4990	0.00	282.4	275.6	1.0246
4990	0.00	194.8	185.3	1.0516
4990	0.00	102.4	97.3	1.0525
4990	0.00	0.0	0.0	As found zero
4990	0.00	282.4	275.6	As found span
Average Correction Factor				1.0429

Calculated value of As Found Response: 277.1 ppm Percent Change of As Found: -1.9%

	before calibration		after calibration	
Auto zero	1.1	ppb	1.6	ppb
Auto span	111.9	ppb	114.0	ppb

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

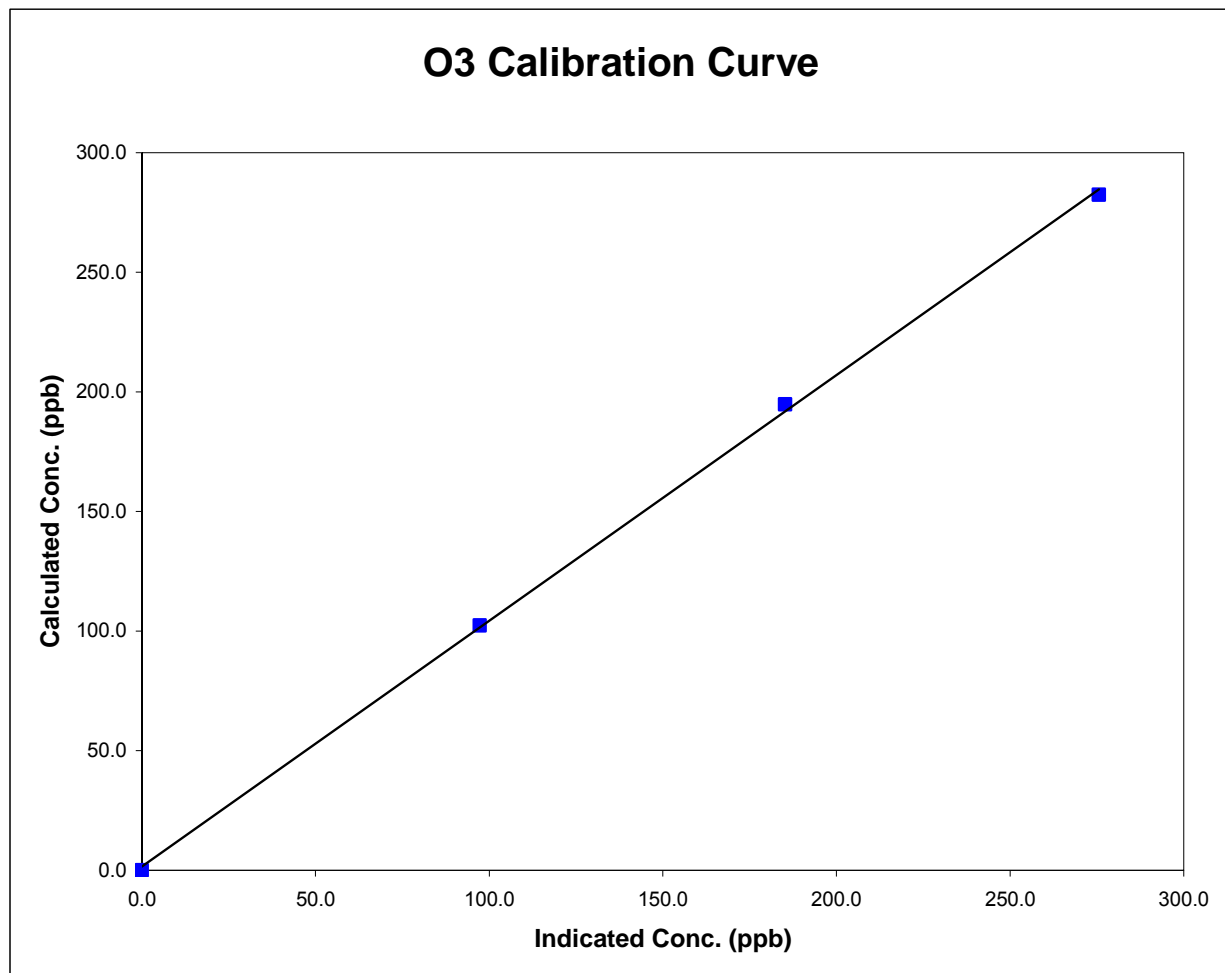
Parameter **O3**Air Monitoring Network **PASZA**

Station Information

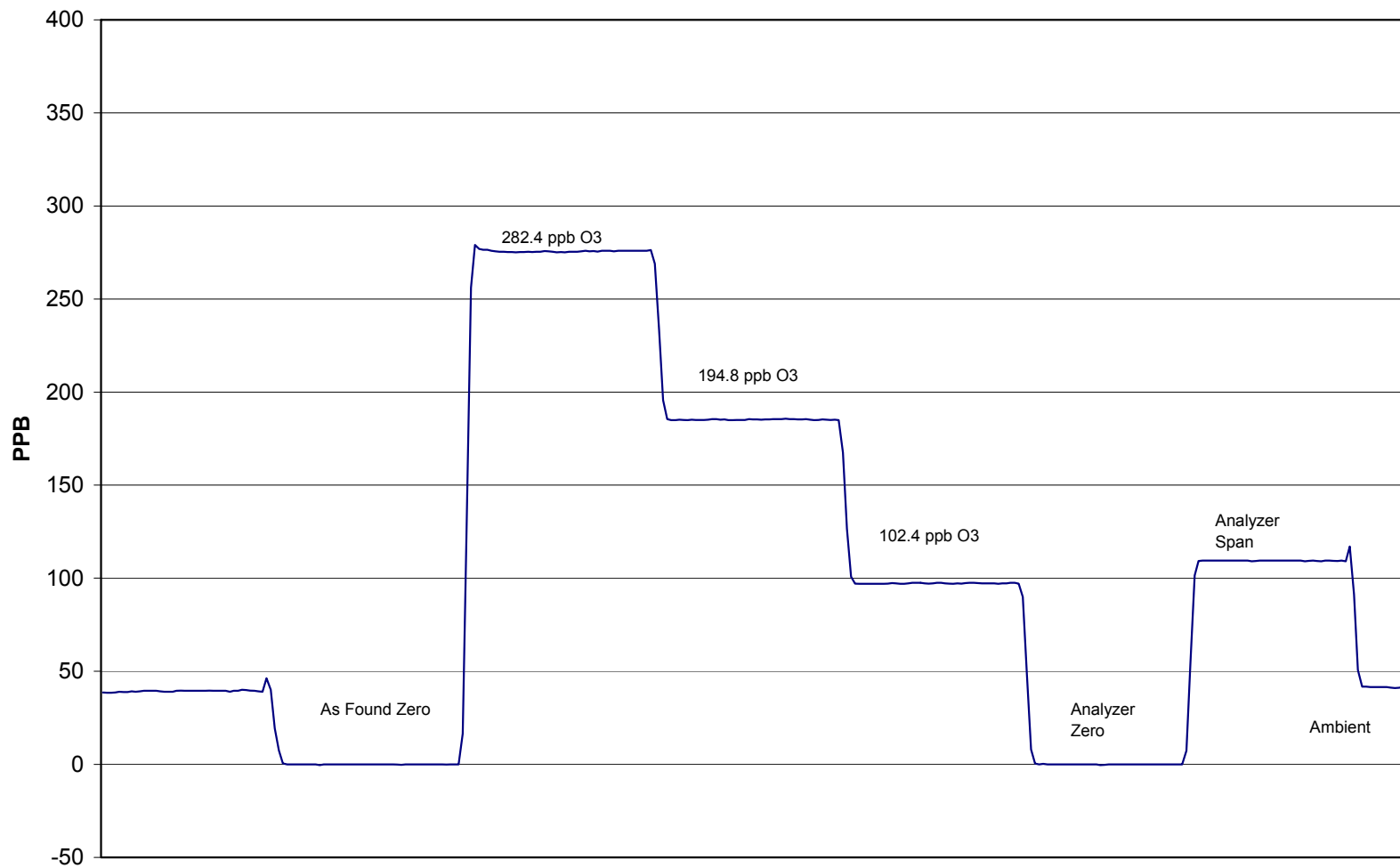
Calibration Date	March 14, 2008	Previous Calibration	February 11, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	12:20	End Time (MST)	15:00
Analyzer make/model	Teco 49C	Analyzer serial #	49C-76443-383

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	NA		
282.4	275.6	1.0246	Correlation Coefficient	0.999611
194.8	185.3	1.0516		
102.4	97.3	1.0525	Slope	1.027407
			Intercept	1.533421



Beaverlodge O3 Calibration



March 14, 2008

Calibration ReportParameter **SO2**Air Monitoring Network **PASZA****Station Information**

Calibration Date	March 17, 2008	Previous Calibration	February 21, 2008
Station Number	8	Station Location	Rover - Spirit River
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	10:50	End Time (MST)	13:50
Barometric Pressure	27.40 inches Hg	Station Temperature	22.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	7/27/2009
Gas Cert Reference	LL 16161		
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.004278	Calculated slope	1.005016
Calculated intercept	-1.352789	Calculated intercept	-1.925707
Analyzer make	TEI 43C	Analyzer serial #	609716238

	before		after	
Concentration range	0-500	ppb	0-500	ppb
Background	8		7.9	
Coefficient	1.137		1.137	
UV Lamp Voltage	737	V	740	V
Chamber Temp	44.5	C	44.5	C
Perm Gas Temp	45	C	45	C
Pressure	666.9	mm Hg	672.7	mm Hg
Sample Flow	482	LPM	485	LPM
Lamp Intesity	35721	Hz	34494	Hz

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)
4990	0.00	0.0	0.3	N/A
4990	39.90	399.0	397.6	1.0035
4990	19.79	198.7	201.8	0.9846
4990	9.93	99.9	102.1	0.9784
4990	0.00	0.0	0.3	As found zero
4990	39.90	399.0	397.6	As found span
Average Correction Factor				0.9888

Calculated value of As Found Response: 397.718 ppm Percent Change of As Found: 0.3%

	before calibration		after calibration	
Auto zero	-0.9	ppm	-1.4	ppm
Auto span	266.2	ppm	269.1	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

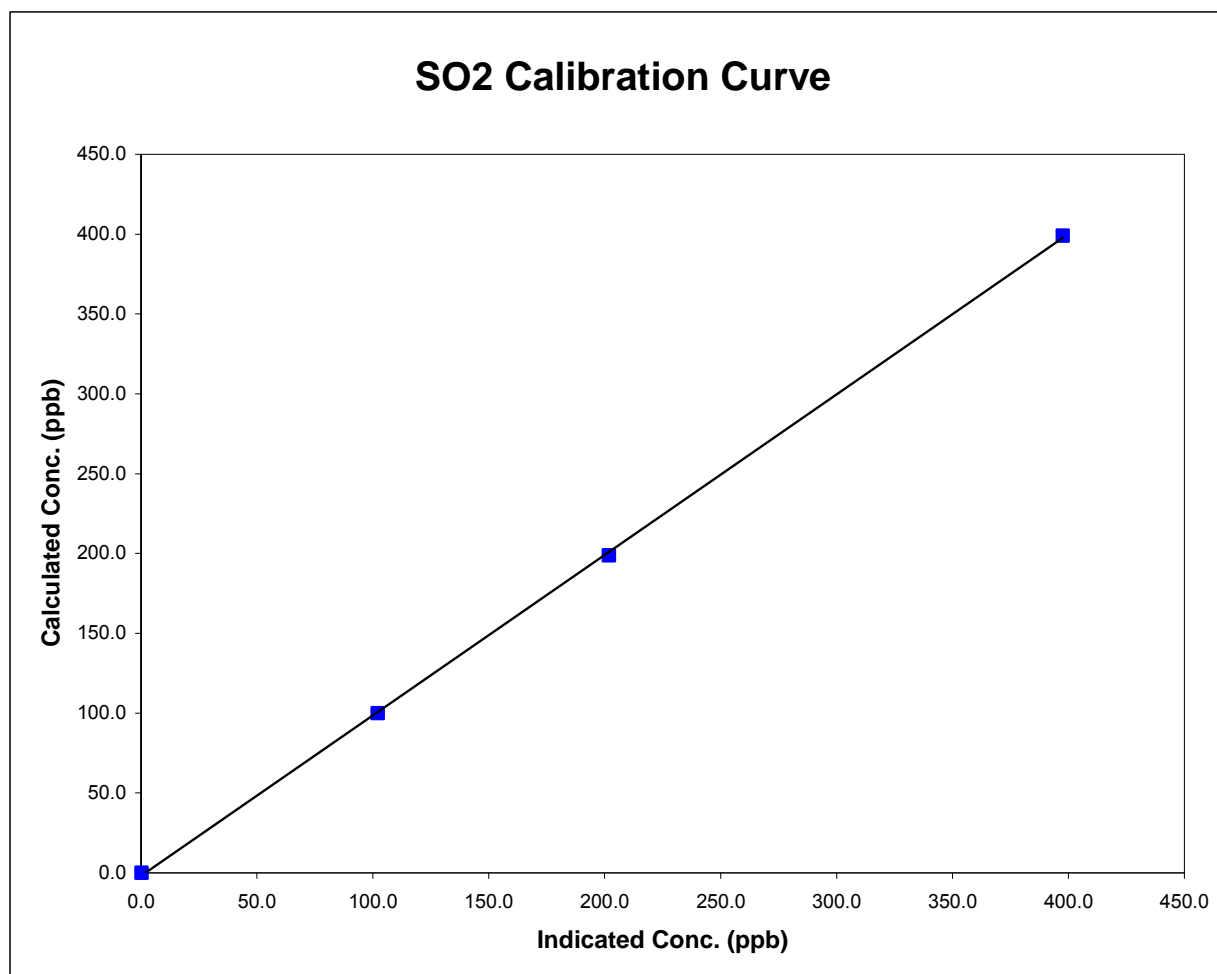
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

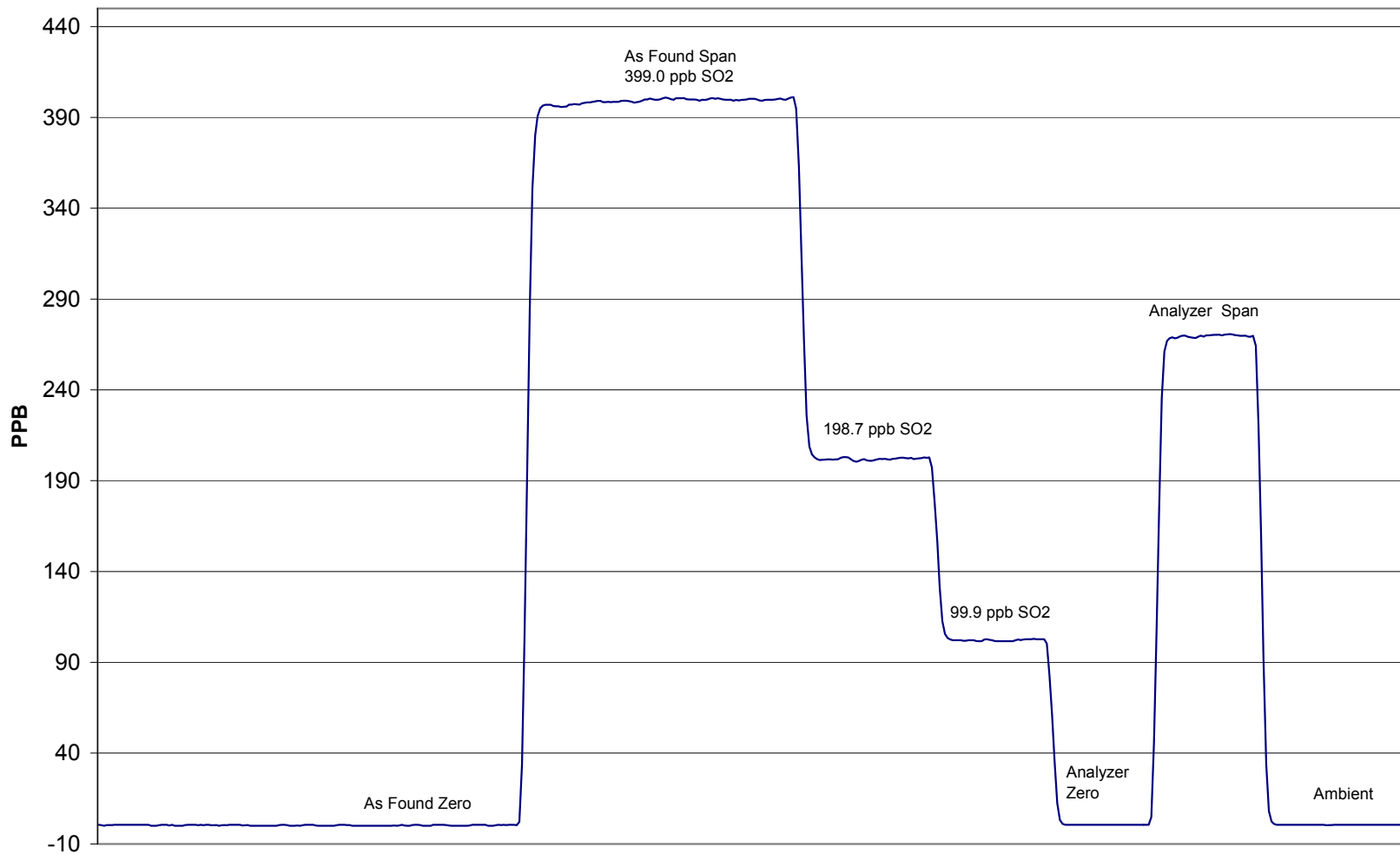
Calibration Date	March 17, 2008	Previous Calibration	February 21, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	10:50	End Time (MST)	13:50
Analyzer make/model	TEI 43C	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	N/A		
399.0	397.6	1.0035	Correlation Coefficient	0.999886
198.7	201.8	0.9846		
99.9	102.1	0.9784	Slope	1.005016
			Intercept	-1.925707



Spirit River SO2 Calibration



March 17, 2008

Calibration Report



Parameter **TRS**
Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 18, 2008	Previous Calibration	February 25, 2008
Station Number	6	Station Location	Portable Spirit River
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	12:10	End Time (MST)	14:55
Barometric Pressure	27.4 inches Hg	Station Temperature	21.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentration	5.14 ppm	Cal Gas Expiry Date	11/15/2005
Gas Cert Reference	LL 74274		
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 5 volt	DACS channel #	8
	Before		After
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.012239	Calculated slope	1.030136
Calculated intercept	-0.305551	Calculated intercept	0.116273
Analyzer make	TEI 43C	Analyzer serial #	609716238

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	8.7	ppb	8.8	ppb
Coefficient	1.416		1.416	
Lamp Voltage	813	V	813	V
Chamber Temp	43.9	C	44	C
Perm gas Temp	45	C	45	C
Pressure	668	mmHg	657	mmHg
Sample Flow	438	ccm	431	ccm
Lamp Intensity	39000.0	Hz	39044.0	Hz

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)
4988	0.0	0.0	0.3	N/A
4988	79.64	80.8	78.5	1.0287
4988	39.87	40.8	39.1	1.0430
4988	9.91	10.2	9.5	1.0757
4988	0.00	0.0	0.3	As found zero
4988	79.64	80.8	78.5	As found span
Average Correction Factor				1.0491

Calculated value of As Found Response: 78.83 ppm Percent Change of As Found: 2.4%

	before calibration		after calibration	
Auto zero	0.1	ppm	0.5	ppm
Auto span	71.9	ppm	75.3	ppm

Notes: Adjusted TRS

Calibration Performed By: Conor Whiteley

Calibration Summary

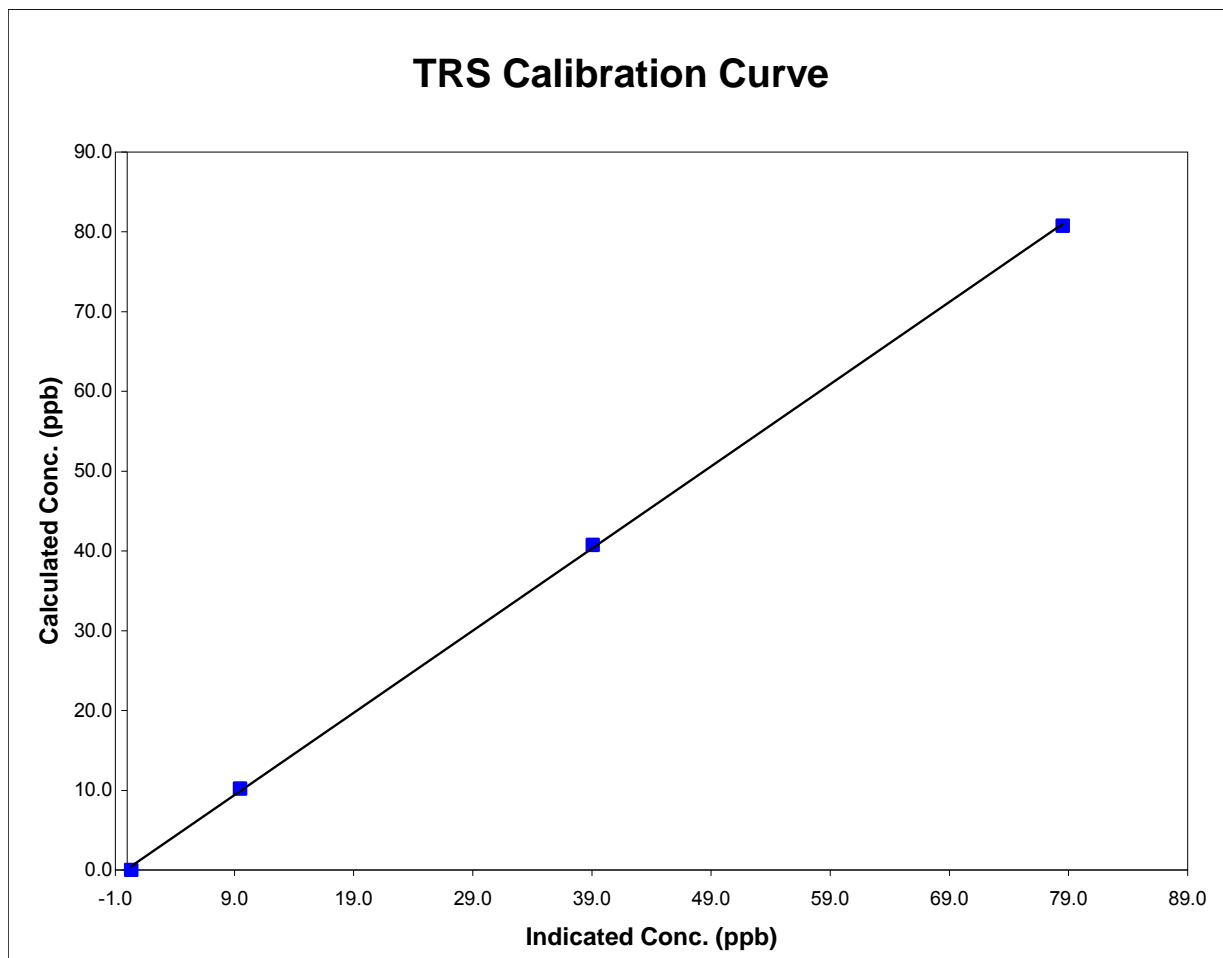
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

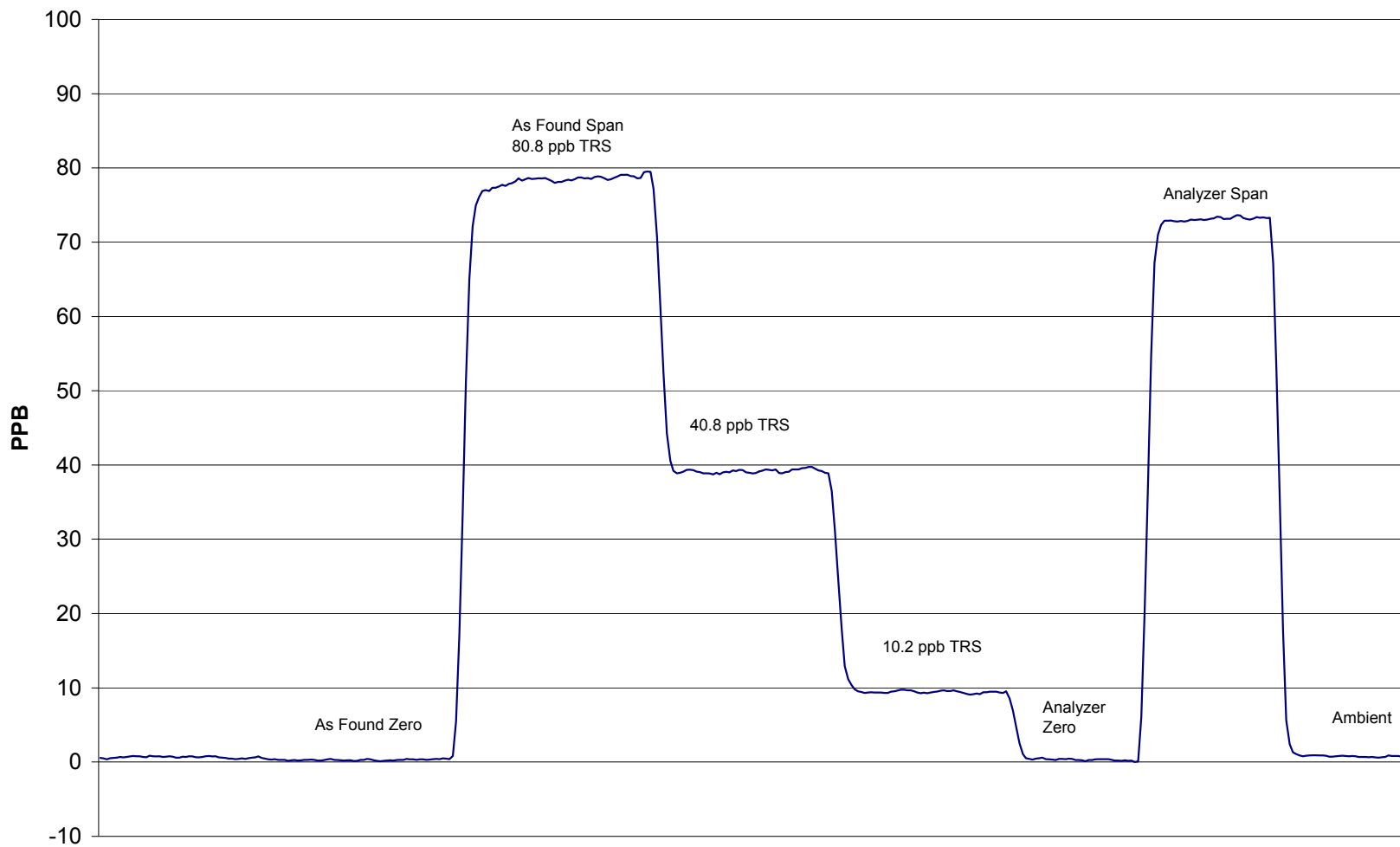
Calibration Date	March 18, 2008	Previous Calibration	February 25, 2008
Station Number	6	Station Location	Portable Spirit River
Start Time (MST)	12:10	End Time (MST)	14:55
Analyzer make/model	TEI 43C	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	N/A		
80.8	78.5	1.0287	Correlation Coefficient	0.999867
40.8	39.1	1.0430		
10.2	9.5	1.0757	Slope	1.030136
			Intercept	0.116273



Spirit River TRS Calibration



March 18, 2008

Calibration Report



Parameter **O3**
 Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 18, 2008	Previous Calibration	February 21, 2008
Station Number	8	Station Location	Rover - Spirit River
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	10:10	End Time (MST)	12:50
Barometric Pressure	0.916 atm	Station Temperature	21.0 Deg C
Calibrator	Enviroics 6100	Serial Number	3474
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0-5	DACS channel #	7
	Before		After
Calculated slope	0.995804	Calculated slope	0.985479
Calculated intercept	-0.916773	Calculated intercept	-0.704719
Analyzer make	TEI Model 49C	Analyzer serial #	609-716240

	before		after	
Concentration range	0-500	ppb	0-500	ppb
Offset	0	ppb	0	ppb
Span	1.022		1.042	
Cell A	112851	Hz	84687	Hz
Cell B	110021	Hz	80000	Hz
Pressure	670	in Hg	685	in Hg
CellA Flow	667	ccm	669	ccm
Cell B Flow	665	cmm	668	cmm

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)
4990	0.00	0.0	0.2	N/A
4990	0.00	282.6	285.5	0.9898
4990	0.00	186.3	193.1	0.9648
4990	0.00	99.3	100.7	0.9865
4990	0.00	0.0	0.2	As found zero
4990	0.00	300.0	285.5	As found span
Average Correction Factor				0.9804

Calculated value of As Found Response: 283.2 ppm Percent Change of As Found: -5.6%

	before calibration		after calibration	
Auto zero	0.7	ppb	1.3	ppb
Auto span	357.5	ppb	362.9	ppb

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary



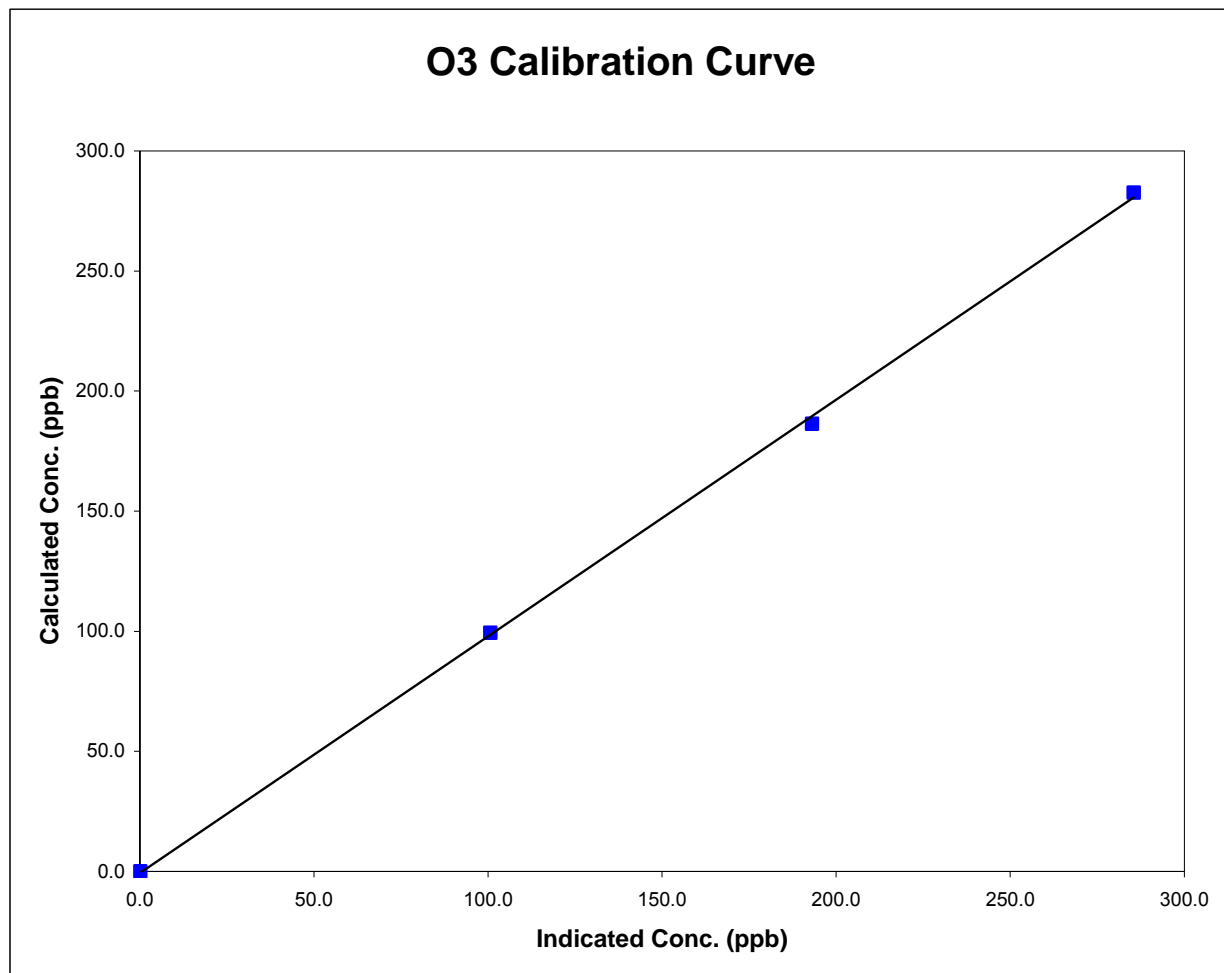
Parameter **O3**
 Air Monitoring Network **PASZA**

Station Information

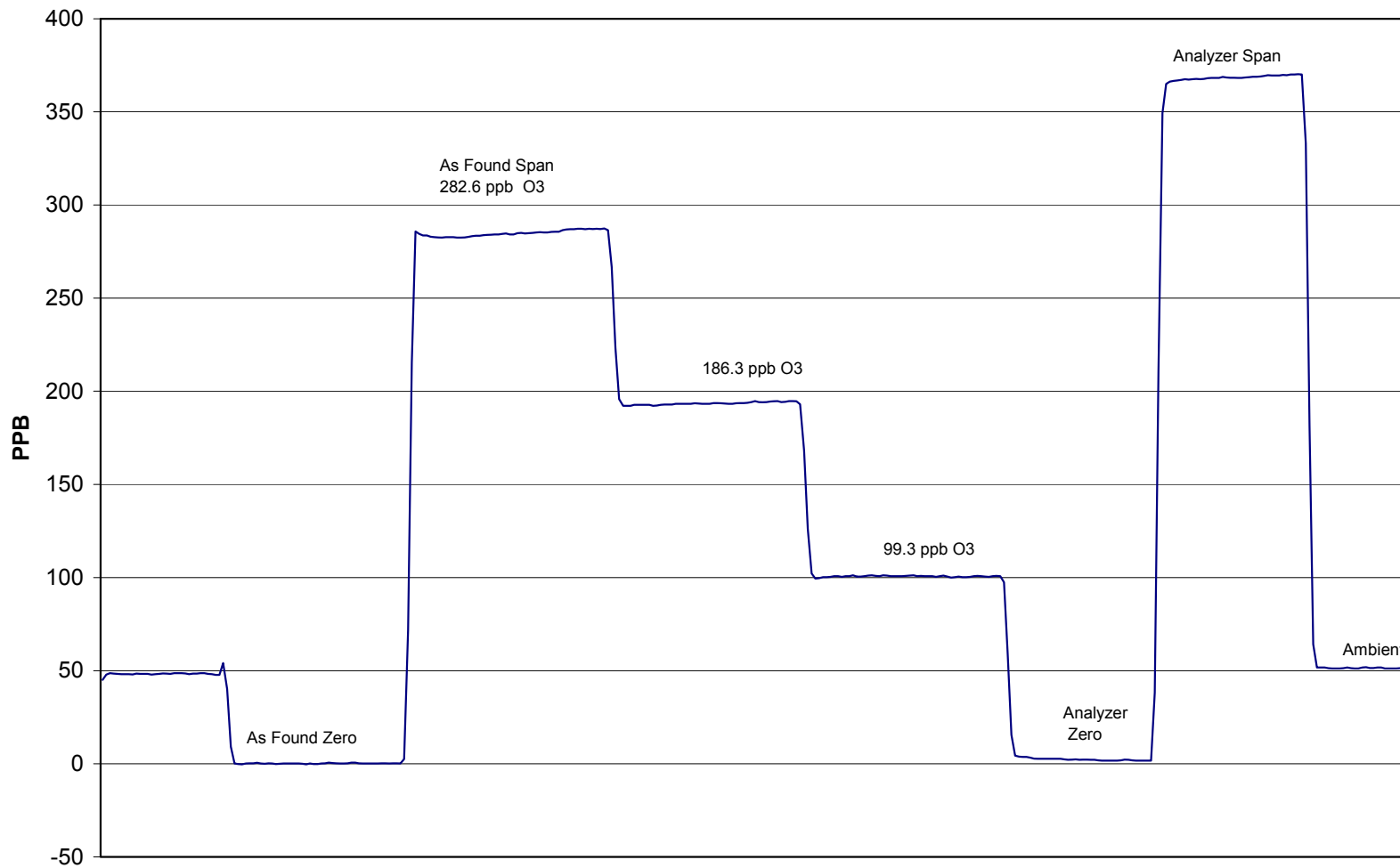
Calibration Date	March 18, 2008	Previous Calibration	February 21, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	10:10	End Time (MST)	12:50
Analyzer make/model	TEI Model 49C	Analyzer serial #	609-716240

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	NA		
282.6	285.5	0.9898	Correlation Coefficient	0.999645
186.3	193.1	0.9648		
99.3	100.7	0.9865	Slope	0.985479
			Intercept	-0.704719



Spirit River O3 Calibration



March 18, 2008

Calibration Report



Parameter **O3**
 Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 28, 2008	Previous Calibration	March 18, 2008
Station Number	8	Station Location	Rover - Spirit River
Reason:	<input type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:00	End Time (MST)	14:15
Barometric Pressure	0.925 atm	Station Temperature	21.0 Deg C
Calibrator	Enviroics 6100	Serial Number	3474
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0-5	DACS channel #	7
	Before		After
Calculated slope	0.985479	Calculated slope	0.924491
Calculated intercept	-0.704719	Calculated intercept	-2.616173
Analyzer make	TEI Model 49C	Analyzer serial #	609-716240

	before		after	
Concentration range	0-500	ppb	0-500	ppb
Offset	0	ppb	0	ppb
Span	1.042		1.042	
Cell A	84687	Hz	73624	Hz
Cell B	80000	Hz	69754	Hz
Pressure	685	in Hg	689	in Hg
CellA Flow	669	ccm	669	ccm
Cell B Flow	668	cmm	666	cmm

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)
4990	0.00	0.0	0.0	N/A
4990	0.00	282.6	305.5	0.9251
4990	0.00	186.3	207.1	0.8995
4990	0.00	99.3	113.4	0.8758
4990	0.00	0.0	0.2	As found zero
4990	0.00	300.0	311.3	As found span
Average Correction Factor				0.9001

Calculated value of As Found Response: 305.9 ppm Percent Change of As Found: 2.0%

	before calibration		after calibration	
Auto zero	1.3	ppb	-0.2	ppb
Auto span	362.9	ppb	312.8	ppb

Notes: Investigating the rising Spans in O3

Calibration Performed By: Conor Whiteley

Calibration Summary



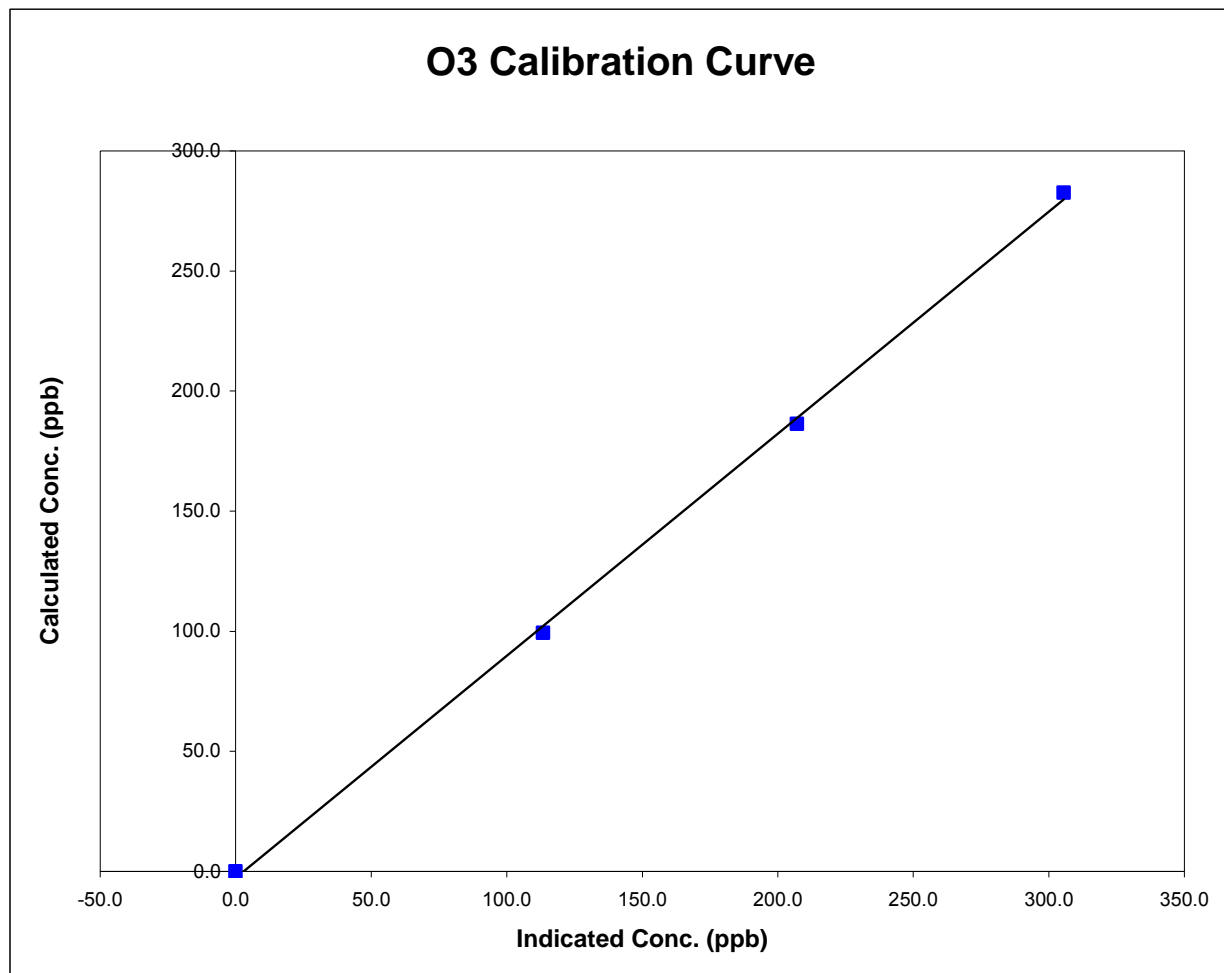
Parameter **O3**
 Air Monitoring Network **PASZA**

Station Information

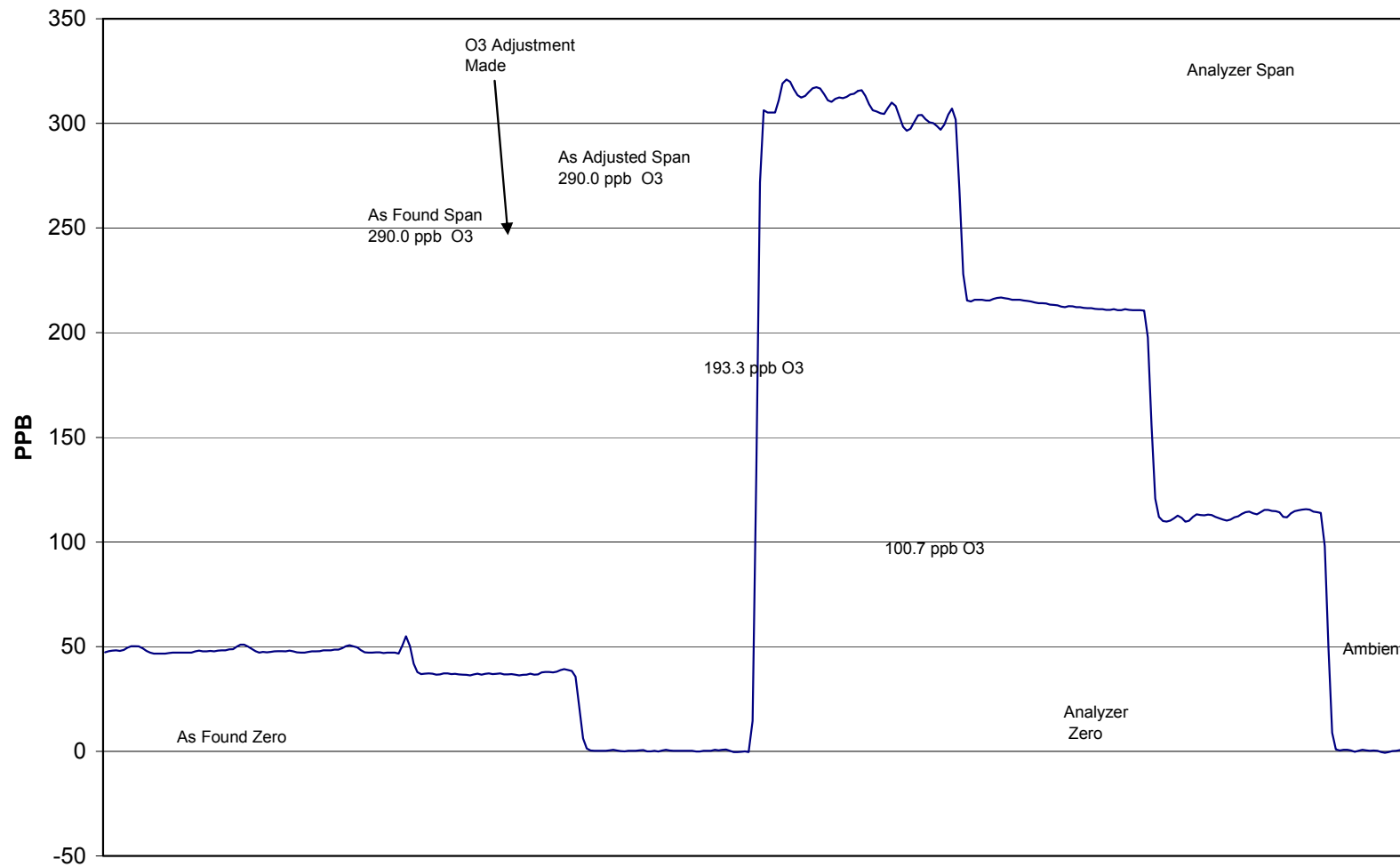
Calibration Date	March 28, 2008	Previous Calibration	March 18, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	9:00	End Time (MST)	14:15
Analyzer make/model	TEI Model 49C	Analyzer serial #	609-716240

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	NA		
282.6	305.5	0.9251	Correlation Coefficient	0.999315
186.3	207.1	0.8995		
99.3	113.4	0.8758	Slope	0.924491
			Intercept	-2.616173



Spirit River O3 Calibration



March 28, 2008

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA**Station Information**

Calibration Date	March 17, 2008	Previous Calibration	February 21, 2008
Station Number	8	Station Location	Rover - Spirit River
Reason:	Routine	Installation	Removal
Start Time (MST)	10:50	End Time (MST)	16:40
Barometric Pressure	27.40 Inches Hg	Station Temperature	22.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
NO Cal Gas Conc	48.9 ppm	Cal Gas Expiry Date	2-Jan-09
NOx Cal Gas Conc	48.9 ppm	Cal Gas Serial #	LL-16161

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	52662
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Parameter		NO2	NOx	NO
Before	Data Slope	0.999348	1.002080	1.000814
	Data Offset	0.060165	-1.680422	-1.803559
After	Data Slope	0.999936	1.004743	1.004992
	Data Offset	-0.027794	-1.730838	-1.740124
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model	TECO 42i	Analyzer serial #	701120011
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Test Point	before		after	
Concentration range	0-1000	ppb	0-1000	ppb
NO background	4.2	ppb	4.7	mV
NOx background	4.4	ppb	5.0	mV
NO coefficient	0.712		0.795	
NOx coefficient	0.999		0.996	
Chamber Temp	50.0	Deg C	50.3	Deg C
Cooler Temp	-3.0	Deg C	-3.0	Deg C
NO2 Converter Temp	325.9	Deg C	325.3	Deg C
Sample Flow	629.0	ccm	0.6	ccm
Ozonator Flow	OK	LPM	OK	LPM
Pressure	169.1	mm Hg	175.7	mm Hg

Notes:

Calibration Performed By:

Conor Whiteley

Calibration Report

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



Station Information

Calibration Date: **March 17, 2008** Station Location: **Rover - Spirit River**

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor
zero	4990	0.00	0.0	0.0	0.0	0.2	-0.1	0.4	N/A	N/A
1	4990	39.90	387.9	387.9	0.0	386.7	386.5	1.1	1.0031	1.0037
2	4990	19.79	193.2	193.2	0.0	195.7	195.8	0.8	0.9872	0.9867
3	4990	9.93	97.1	97.1	0.0	99.3	99.6	0.5	0.9779	0.9755
AFZ	4990	0.00	0.0	0.0	0.0	0.2	-0.1	0.4	0.0000	0.0000
AFS	4990	39.90	387.9	387.9	0.0	346.4	347.4	0.4	1.1198	1.1166
Average Correction Factor									0.9894	0.9887

As Found Concentrations: NO_x= 344.5 NO= 345.6 As Found Percent Change NO_x= -11.2% NO= -10.9%

GPT Calibration Data

Dilution Flow 4988 ccm Source Gas Flow 39.82 ccm

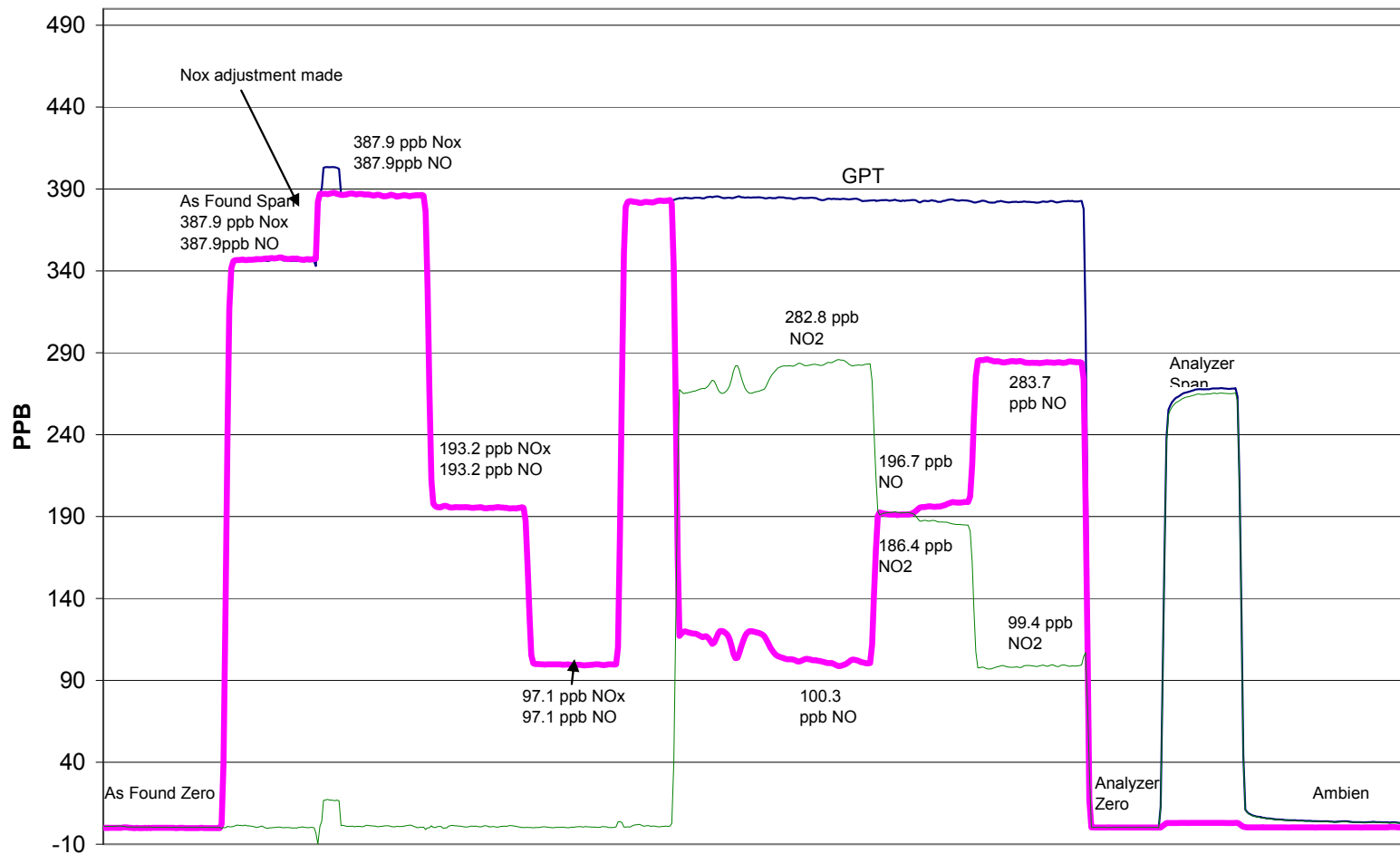
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	383.1	382.4	0.7	382.4	382.2	1.2	1.0018	1.0004	N/A	N/A
300	383.1	100.3	282.8	383.9	101.5	283.1	0.9979	0.9879	0.9989	100.1%
200	383.1	196.7	186.4	382.9	197.4	186.3	1.0004	0.9962	1.0007	99.9%
100	383.1	283.7	99.4	382.2	284.0	99.0	1.0024	0.9989	1.0045	99.6%
Average Correction Factor							1.0002	0.9943	1.0013	99.9%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	0.7	1.0	0.9	ppb	0.2	1.0	0.7	ppb
Auto span	269.5	267.8	1.0	ppb	267.2	264.7	1.3	ppb

Calibration Performed By: Conor Whiteley

Spirit River NOx Calibration



March 17, 2008

Calibration Summary

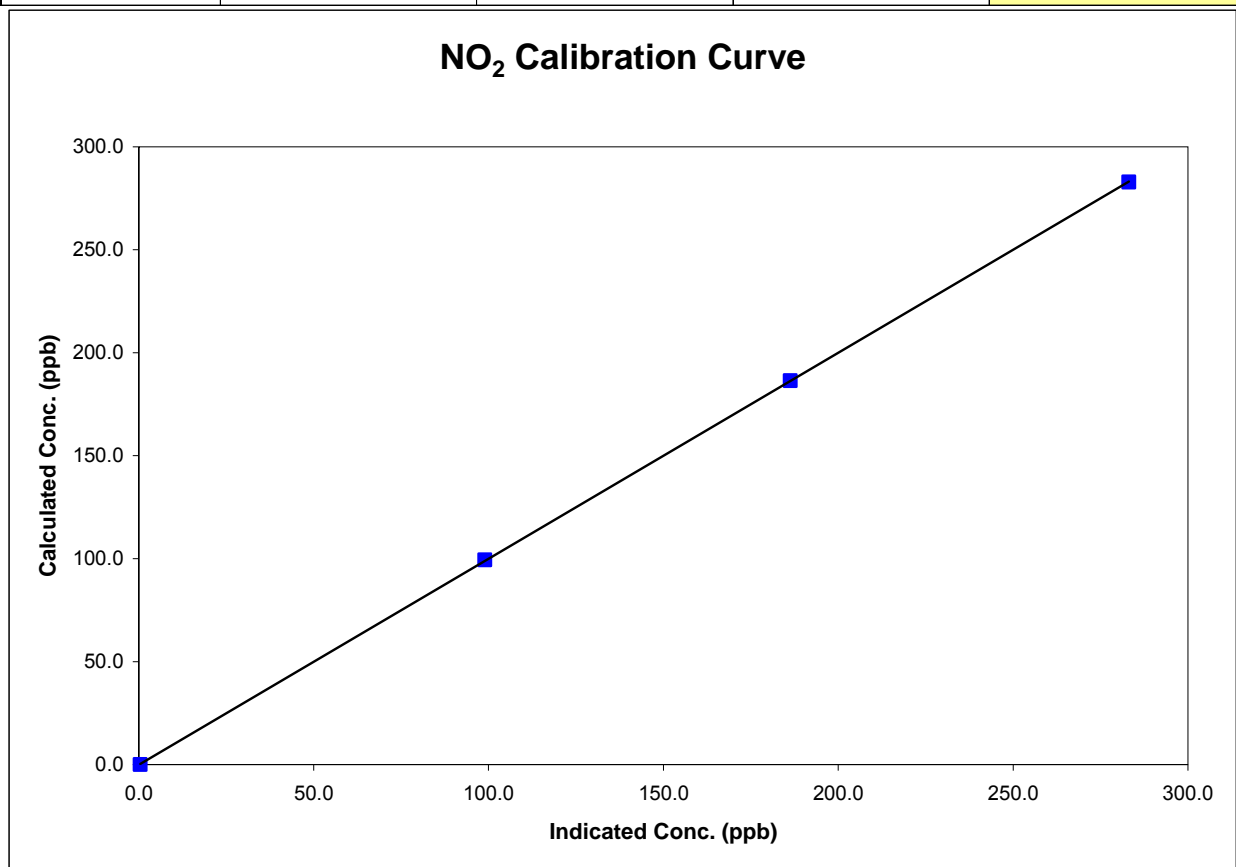
Parameter **NO₂**Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 17, 2008	Previous Calibration	February 21, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	10:50	End Time (MST)	16:40
Analyzer make	TECO 42i	Analyzer serial #	701120011

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.4	0.0000	Correlation Coefficient	0.999989
282.8	283.1	0.9989		
186.4	186.3	1.0007		
99.4	99.0	1.0045		
			Slope	0.999936
			Intercept	-0.027794



Calibration Summary

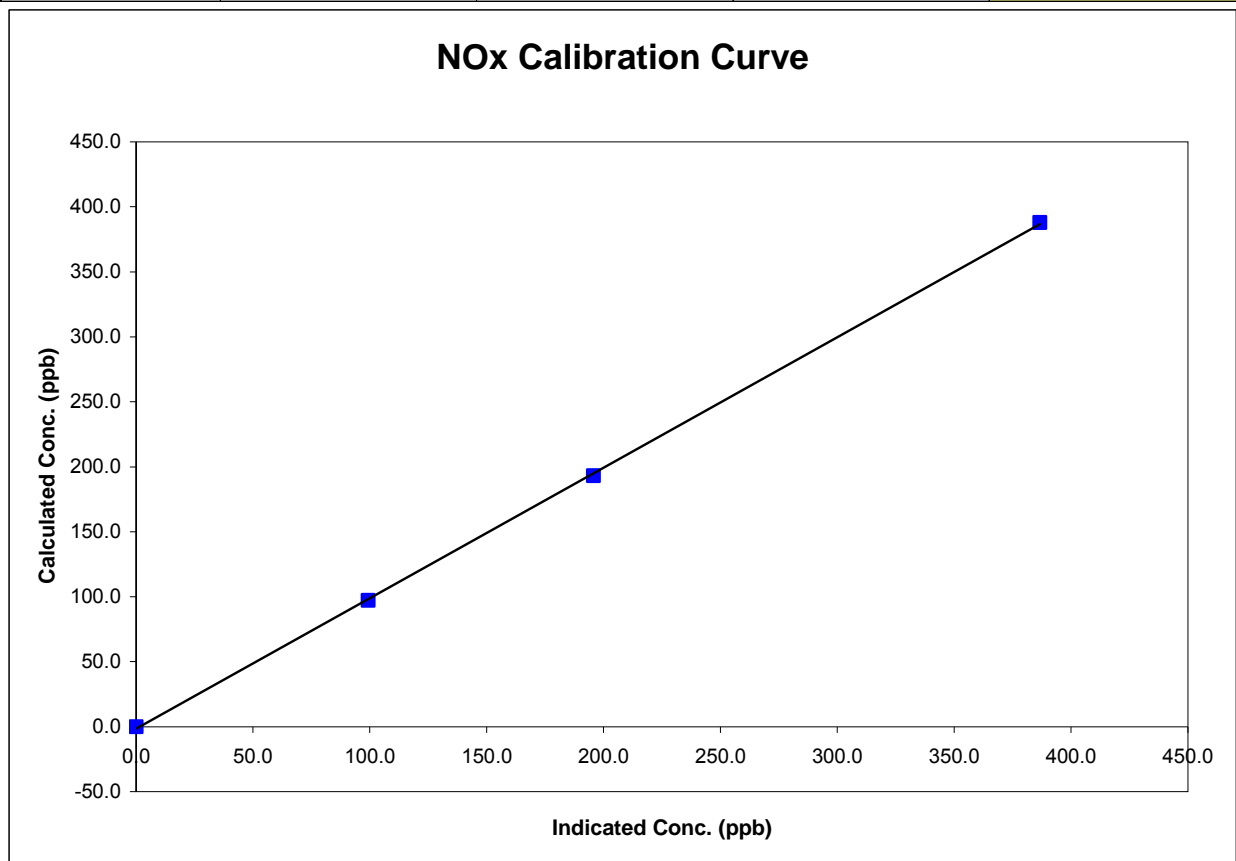
Parameter **NO_x**Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 17, 2008	Previous Calibration	February 21, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	10:50	End Time (MST)	16:40
Analyzer make	TECO 42i	Analyzer serial #	701120011

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	0.0000	Correlation Coefficient	0.999911
387.9	386.7	1.0031		
193.2	195.7	0.9872	Slope	1.004743
97.1	99.3	0.9779		
			Intercept	-1.730838



Calibration Summary

Parameter **NO**
 Air Monitoring Network **PASZA**

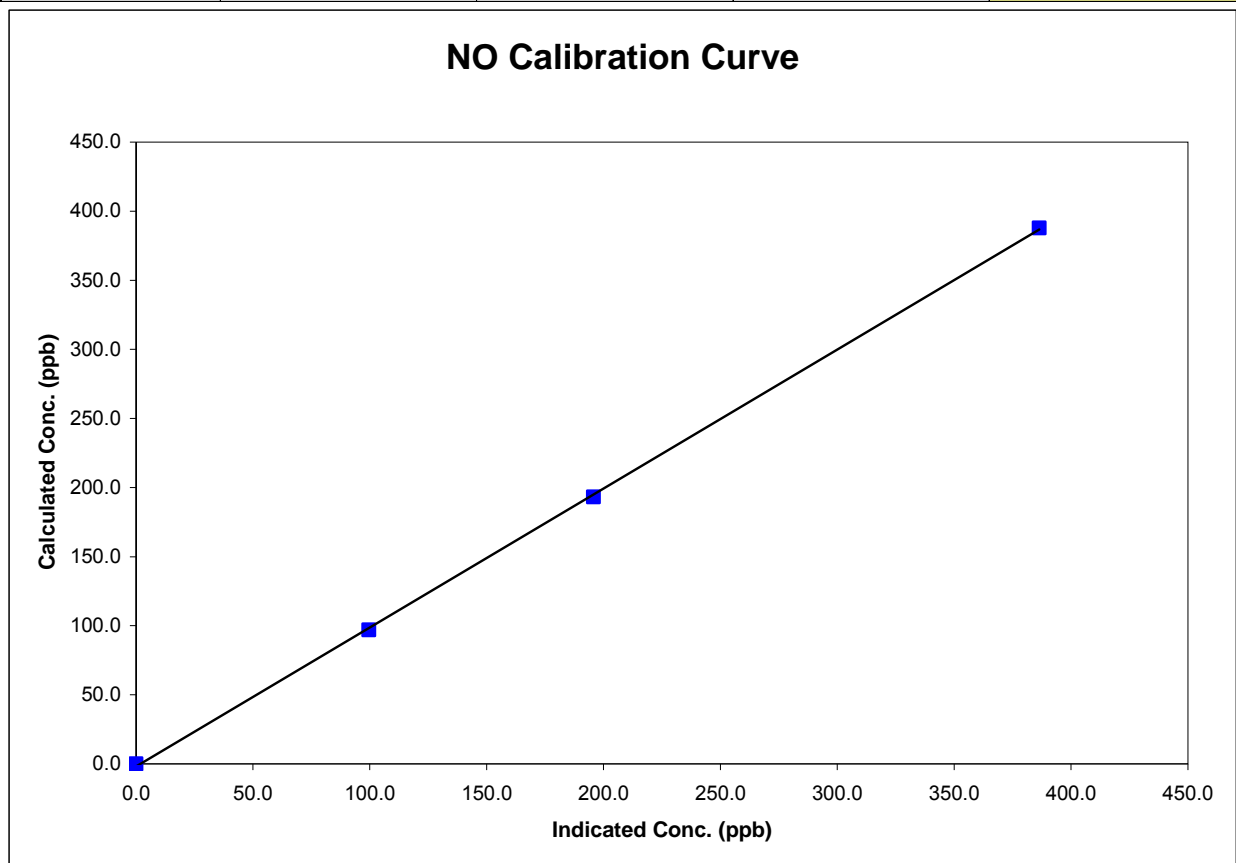


Station Information

Calibration Date	March 17, 2008	Previous Calibration	February 21, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	10:50	End Time (MST)	16:40
Analyzer make	TECO 42i	Analyzer serial #	701120011

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A		
387.9	386.5	1.0037	Correlation Coefficient	0.999884
193.2	195.8	0.9867		
97.1	99.6	0.9755	Slope	1.004992
			Intercept	-1.740124



Calibration Report

Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 13, 2008	Previous Calibration	February 22, 2008
Station Number	6	Station Location	Valleyview
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:09	End Time (MST)	13:45
Barometric Pressure	27.43 inches Hg	Station Temperature	23.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	7/27/2009
Gas Cert Reference	LL16161		
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.995383	Calculated slope	0.996855
Calculated intercept	-0.848106	Calculated intercept	-0.960345
Analyzer make	TEI 43i	Analyzer serial #	43C-57351-313

	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
Background	28		28	
Coefficient	0.74		0.74	
UV Lamp Voltage	697	LPM	695	LPM
Chamber Temp	43.7	V	43.9	V
Perm Gas Temp	30.5	C	21.8	C
Pressure	626.8	in Hg	624.4	in Hg
Sample Flow	0.47	LPM	0.468	LPM
Lamp Intesity	45804	Hz	45535	Hz

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)
4988	0.00	0.0	-0.1	N/A
4988	39.87	398.9	400.4	0.9963
4988	19.90	199.9	202.5	0.9868
4988	9.98	100.4	102.5	0.9801
4988	0.00	0.0	-0.1	As found zero
4988	39.91	399.3	400.4	As found span
Average Correction Factor				0.9877

Calculated value of As Found Response: 397.786 ppm Percent Change of As Found: 0.4%

	before calibration		after calibration	
Auto zero	-1.1	ppm	-1.5	ppm
Auto span	166.3	ppm	167.0	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

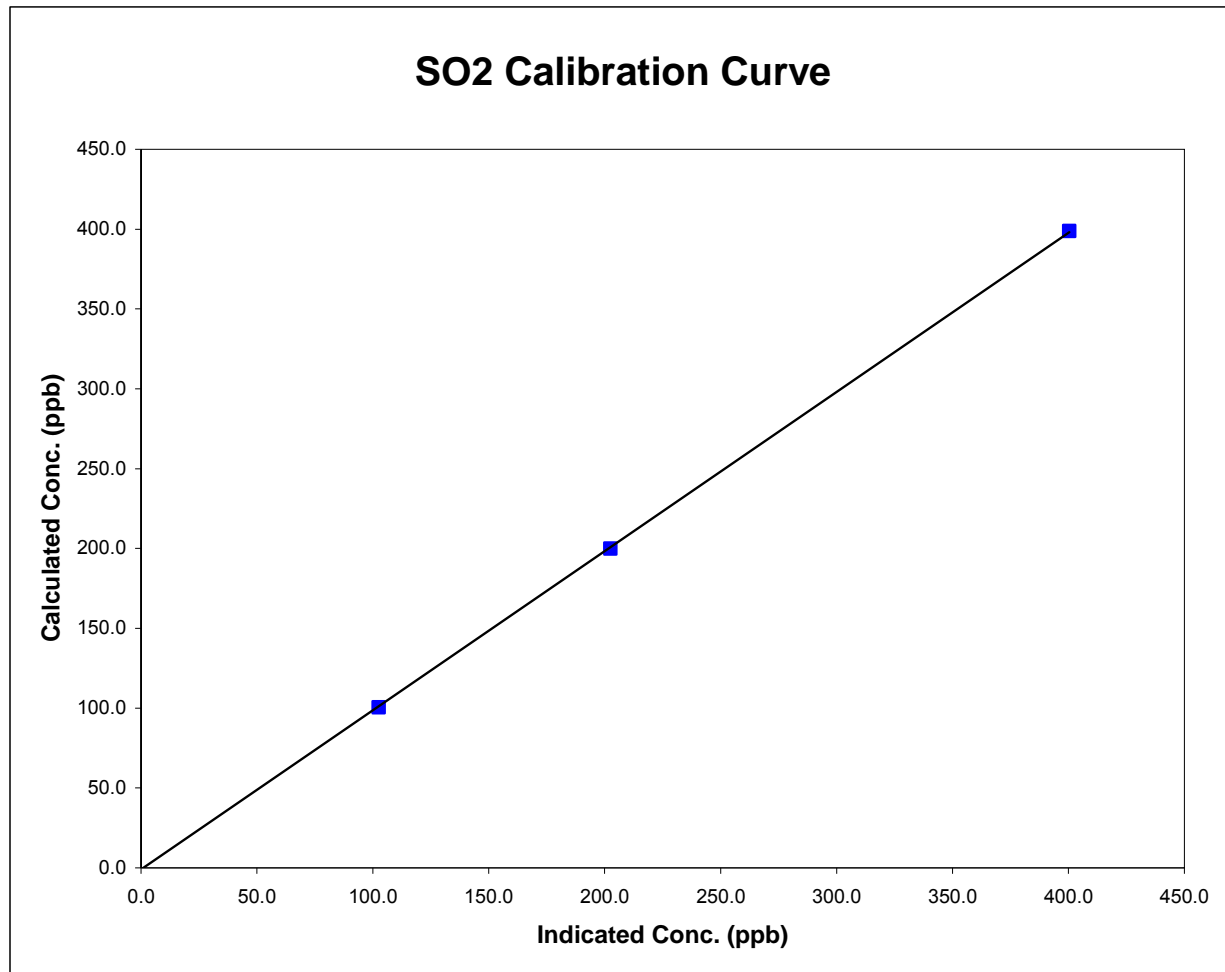
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

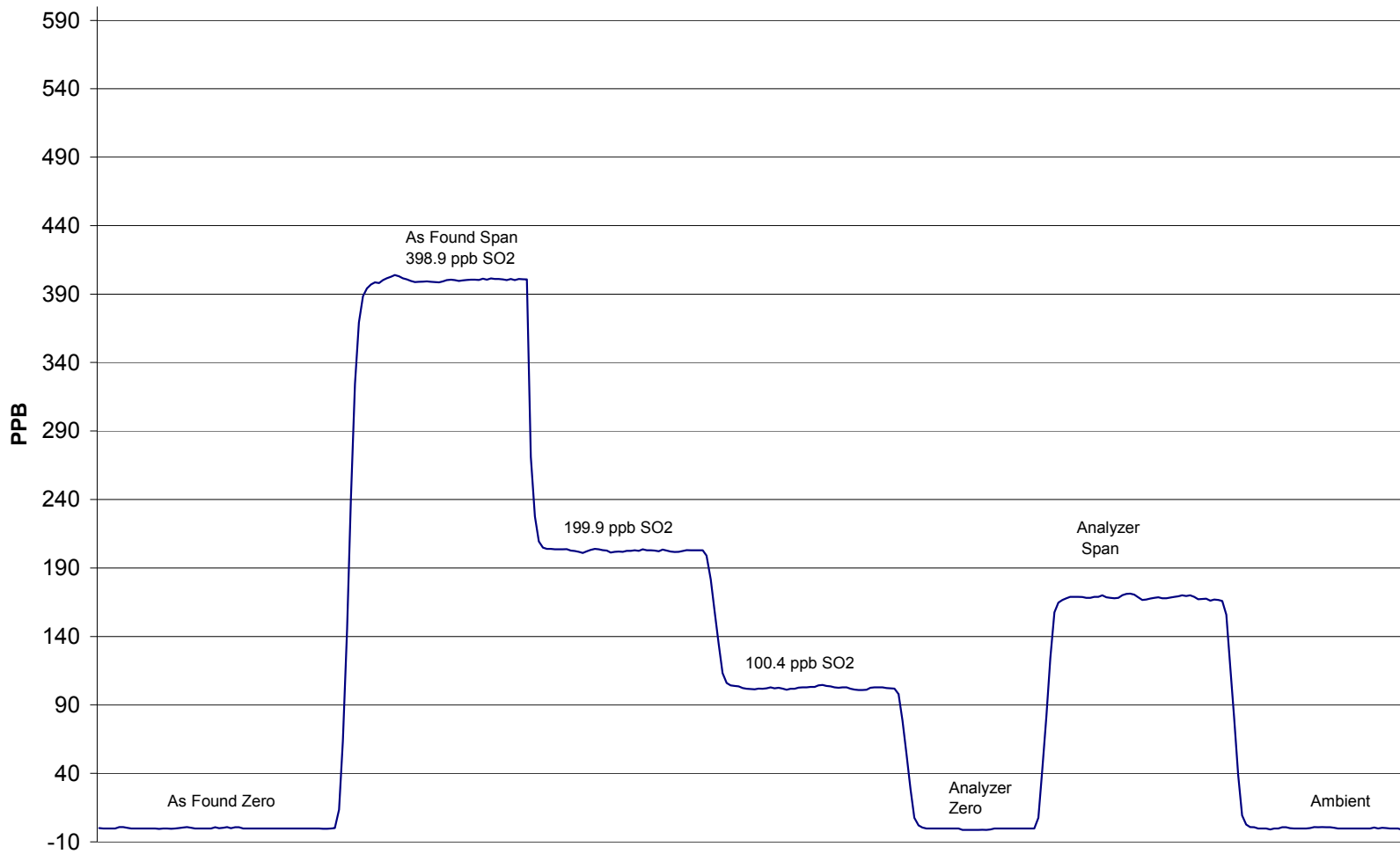
Calibration Date	March 13, 2008	Previous Calibration	February 22, 2008
Station Number	6	Station Location	Valleyview
Start Time (MST)	11:09	End Time (MST)	13:45
Analyzer make/model	TEI 43i	Analyzer serial #	43C-57351-313

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A		
398.9	400.4	0.9963	Correlation Coefficient	0.999961
199.9	202.5	0.9868		
100.4	102.5	0.9801	Slope	0.996855
			Intercept	-0.960345



Valleyview SO2 Calibration



March 13, 2008

Calibration Report



Parameter **H2S**
Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 13, 2008	Previous Calibration	February 22, 2008
Station Number	5	Station Location	Valleyview
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:05	End Time (MST)	12:15
Barometric Pressure	27.43 inches Hg	Station Temperature	23.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentration	5.14 ppm	Cal Gas Expiry Date	11/29/2006
Gas Cert Reference	LL 74274		
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.035401	Calculated slope	1.026011
Calculated intercept	0.208205	Calculated intercept	0.226445
Analyzer make	TEI Model 43A	Analyzer serial #	43A-25575-221

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Back Ground	4.8	ppb	4.8	ppb
Coefficient	1.026		1.026	
Lamp Voltage	802	V	802	V
Chamber Temp	45	c	45.2	c
Perm Oven Temp	44.97	c	45	c
Pressure	636	mm Hg	640	mm Hg
Sample Flow	424	ccm	428	ccm
Lamp Intensity	90.0	%	91.0	%

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)
4990	0.00	0.0	-0.1	N/A
4990	79.73	80.8	78.5	1.0291
4990	39.79	40.7	39.5	1.0294
4990	9.93	10.2	9.5	1.0760
4990	0.00	0.0	-0.1	As found zero
4990	79.81	80.9	78.5	As found span
Average Correction Factor				1.0448

Calculated value of As Found Response: 81.59 ppm Percent Change of As Found: -0.8%

	before calibration		after calibration	
Auto zero	0.1	ppm	0.2	ppm
Auto span	66.6	ppm	66.0	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

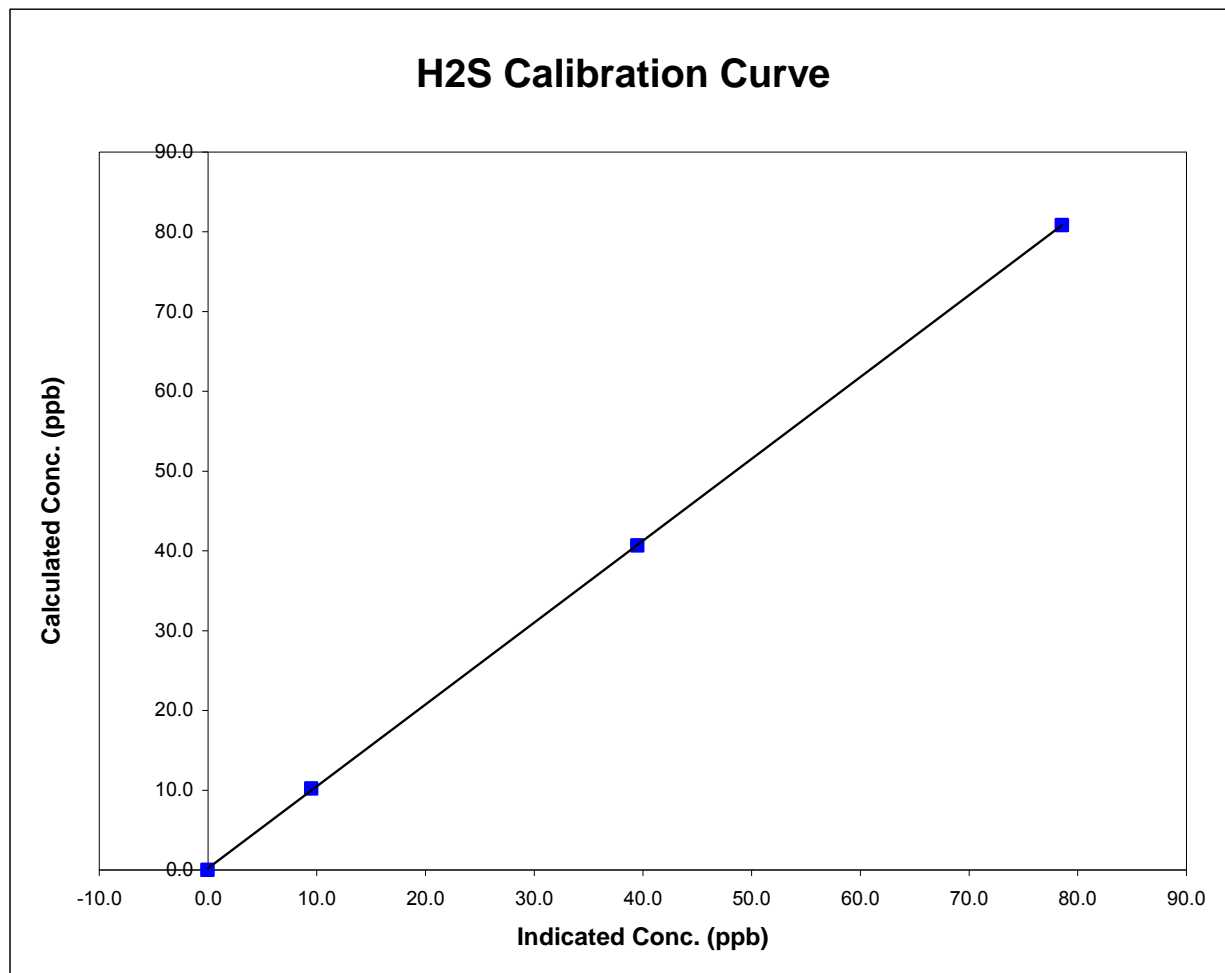
Parameter **H2S**Air Monitoring Network **PASZA**

Station Information

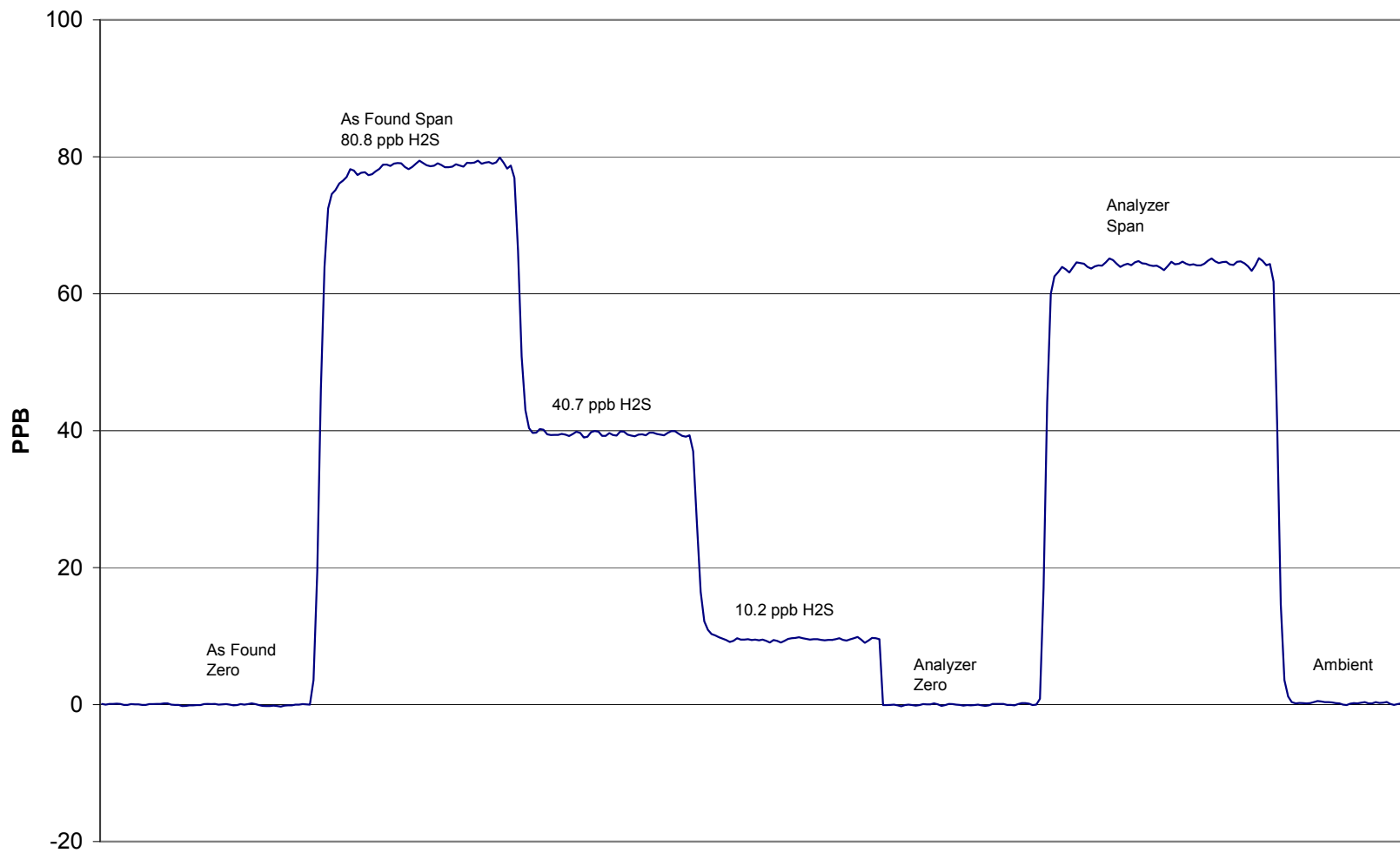
Calibration Date	March 13, 2008	Previous Calibration	February 22, 2008
Station Number	5	Station Location	Valleyview
Start Time (MST)	9:05	End Time (MST)	12:15
Analyzer make/model	TEI Model 43A	Analyzer serial #	43A-25575-221

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A		
80.8	78.5	1.0291	Correlation Coefficient	0.999975
40.7	39.5	1.0294		
10.2	9.5	1.0760	Slope	1.026011
			Intercept	0.226445



Valleyview H2S Calibration



March 13, 2008