



# Air Quality Monitoring Network for April 2006

Prepared by  
**FOCUS**  
 AMBIENT AIR MONITORING

Airshed Zone Association – April 2006 PASZA Ambient Air Report.....	2
PASZA Monthly Continuous Data Summary.....	5
PASZA - Henry Pirker - AQI Monthly Summary .....	9
PASZA - Henry Pirker - Sulphur Dioxide Monthly Summary .....	10
PASZA - Henry Pirker - Nitrogen Dioxide Monthly Summary .....	15
PASZA - Henry Pirker - Nitric Oxide Monthly Summary .....	20
PASZA - Henry Pirker - Oxides of Nitrogen Monthly Summary.....	22
PASZA - Henry Pirker - Ozone Monthly Summary.....	26
PASZA - Henry Pirker - Ozone Monthly Summary.....	31
PASZA - Henry Pirker - Carbon Monoxide Monthly Summary .....	32
PASZA - Henry Pirker - Carbon Monoxide Monthly Summary .....	37
PASZA - Henry Pirker - Total Hydrocarbons Monthly Summary.....	38
PASZA - Henry Pirker - Total Reduced Sulphur Monthly Summary.....	43
PASZA - Henry Pirker - Particulate Matter (less than 2.5 microns) Monthly Summary.....	48
PASZA - Henry Pirker - Relative Humidity Monthly Summary.....	53
PASZA - Henry Pirker - Temperature Monthly Summary .....	55
PASZA - Henry Pirker - Solar Radiation Monthly Summary.....	57
PASZA - Henry Pirker - Scalar Wind Speed Monthly Summary .....	59
PASZA - Henry Pirker - Vector Wind Speed Monthly Summary.....	60
PASZA - Henry Pirker - Wind Direction Monthly Summary.....	61
PASZA - Henry Pirker - Standard Deviation of Wind Direction Monthly Summary .....	62
PASZA - Evergreen Park - Sulphur Dioxide Monthly Summary .....	65
PASZA - Evergreen Park - Total Reduced Sulphur Monthly Summary.....	70
PASZA - Evergreen Park - Particulate Matter (less than 2.5 microns) Monthly Summary .....	75
PASZA - Evergreen Park - Temperature Monthly Summary .....	80
PASZA - Evergreen Park - Scalar Wind Speed Monthly Summary .....	82
PASZA - Evergreen Park - Vector Wind Speed Monthly Summary.....	83
PASZA - Evergreen Park - Wind Direction Monthly Summary .....	84
PASZA - Evergreen Park - Standard Deviation of Wind Direction Monthly Summary .....	85
PASZA - Smoky Heights - Sulphur Dioxide Monthly Summary .....	88
PASZA - Smoky Heights - Total Reduced Sulphur Monthly Summary.....	93
PASZA - Smoky Heights - Particulate Matter (less than 2.5 microns) Monthly Summary.....	98
PASZA - Smoky Heights - Temperature Monthly Summary .....	103
PASZA - Smoky Heights - Scalar Wind Speed Monthly Summary .....	105
PASZA - Smoky Heights - Vector Wind Speed Monthly Summary.....	106
PASZA - Smoky Heights - Wind Direction Monthly Summary.....	107
PASZA - Smoky Heights - Standard Deviation of Wind Direction Monthly Summary .....	108
PASZA - Beaverlodge - AQI Monthly Summary .....	111
PASZA - Beaverlodge - Sulphur Dioxide Monthly Summary .....	112
PASZA - Beaverlodge - Nitrogen Dioxide Monthly Summary.....	117
PASZA - Beaverlodge - Nitric Oxide Monthly Summary.....	122
PASZA - Beaverlodge - Oxides of Nitrogen Monthly Summary .....	124
PASZA - Beaverlodge - Ozone Monthly Summary .....	128
PASZA - Beaverlodge - Ozone Monthly Summary .....	133
PASZA - Beaverlodge - Particulate Matter (less than 2.5 microns) Monthly Summary .....	134
PASZA - Beaverlodge - Relative Humidity Monthly Summary .....	139
PASZA - Beaverlodge - Temperature Monthly Summary.....	141
PASZA - Beaverlodge - Scalar Wind Speed Monthly Summary .....	143
PASZA - Beaverlodge - Vector Wind Speed Monthly Summary.....	144
PASZA - Beaverlodge - Wind Direction Monthly Summary .....	145
PASZA - Beaverlodge - Standard Deviation of Wind Direction Monthly Summary.....	146
April 2006 Calibration Reports.....	160



June 5, 2006

Environmental Service Response Centre  
Alberta Environment  
#111 Twin Atria Building  
4999-98<sup>th</sup> Avenue  
Edmonton, Alberta T6B 2X3

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

Enclosed is the PASZA Ambient Monitoring Network Report for the month of **April 2006**.

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

Included in this report is a summary of the monthly continuous monitoring, detailed hourly average reports and multipoint calibration reports of all instruments. Operational summaries can be found on the “Monthly Summary” and “Continuous Monitoring” pages of the report. The measured ambient air quality was within the Provincial and Federal guidelines.

Of noted occurrence were two hours where the air quality index (AQI) reached the poor level. This occurred on April 8<sup>th</sup> at 22:00 MST and April 9 at 00:00 at the Henry Pirker station located in Muskoseepi Park in Grande Prairie. The AQIs for the two hours were 51 and 52 respectively (Directive Notification Report Reference # 170275). The TEOM analyzer (PM<sub>2.5</sub> sensor) at Smoky Heights also was in excess of 10% downtime (Non-Compliance Report Reference # 169944) due to the magnet controlling the oscillation of the filter element that had failed thus causing analyzer failure. All other analyzers / sensors were above 90% uptime.

**Passive Monitoring: 43 Stations throughout the PASZA zone:**

No problems were observed with any of the sampling sites for the month of April 2006.

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

- Monthly average concentrations for SO<sub>2</sub> passives ranged from 0.1 ppb to 1.0 ppb.
- Monthly average concentrations for NO<sub>2</sub> passives ranged from 0.3 ppb to 8.4 ppb.
- Monthly average concentrations for O<sub>3</sub> passives ranged from 28.8 ppb to 43.5 ppb.

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

On Behalf of the,  
Peace Airshed Zone Association

Kevin Warren  
PASZA Technical Program Manager

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



April 10, 2006

Alberta Environment  
Environmental Service Response Centre  
111, Twin Atria Building  
4999 - 98 Avenue  
Edmonton, Alberta, T6B 2X3

**RE: PASZA Air Monitoring Directive Non-compliance Report Ref # 169944**

---

A non-compliance of the Alberta Air Monitoring Directive was recently reported by Focus to Alberta Environment (AENV) on behalf of the Peace Airshed Zone Association (PASZA). The non-compliance was less than ninety (90%) percent uptime for the month of April 2006 for the PM<sub>2.5</sub> monitor (R&P TEOM 1400ab). This situation occurred on April 3<sup>rd</sup> at 20:00 MST at the Smoky Heights station located NE of Teepee Creek. The magnetic controlling the oscillation of the filter element had failed thus causing analyzer failure. As the magnetic is epoxied to the wall of the analyzer and the environmental controls of the station have been unable to sufficiently cool the station the failure may have resulted due to excessive trailer temperature.

The air conditioner has been scheduled to be replaced during the second week of April and a new TEOM will be installed post installation.

If there are any questions or concerns please call me at your convenience at (403) 510-6557.

Sincerely,

**THE FOCUS CORPORATION**

A handwritten signature in black ink, appearing to read 'Kelly Baragar', written in a cursive style.

Kelly Baragar  
AQM Technical Supervisor



April 13, 2006

Alberta Environment  
Environmental Service Response Centre  
111, Twin Atria Building  
4999 - 98 Avenue  
Edmonton, Alberta, T6B 2X3

**RE: PASZA Air Monitoring Directive Notification Report Ref # 170275**

---

A notification was recently reported by Focus to Alberta Environment (AENV) on behalf of the Peace Airshed Zone Association (PASZA). The notification was two hours where the air quality index (AQI) reached the poor level. This occurred on April 8<sup>th</sup> at 22:00 MST and April 9 at 00:00 at the Henry Pirker station located in Muskosepi Park in Grande Prairie. The AQIs for the two hours were 51 and 52 respectively. Readings of NO<sub>2</sub> and PM<sub>2.5</sub> were elevated during this time period and were likely the cause of the AQI moving into the poor range. There was evidence discovered on April 10 that there were likely youthful activities in the vicinity of the station in days previous, which could be the result of the elevated readings.

All instrumentation is functioning within specified parameters, and as there is no direct evidence to adjust the data, as such, the readings recorded will stand.

If there are any questions or concerns please call me at your convenience at (403) 716-3685.

Sincerely,

**THE FOCUS CORPORATION**

A handwritten signature in black ink, appearing to read 'G. Cross', is written over a white background.

Gary Cross  
AQM Technical Manager



# Continuous Network Equipment Summary

## PASZA – Henry Pirker Station

### General Station Issues

On April 10<sup>th</sup> it was noted that someone (or some persons) had gained access to the roof of the shelter. The tubing to the TEOM was bent and the head to the rain gauge had been removed and thrown to the ground. The functionality of all analyzers and sensors still remained intact (with the exception of the rain gauge). No other station issues noted during the month of April. Calibrations were performed on April 7<sup>th</sup> (TEOM, CO), April 13<sup>th</sup> (NO<sub>x</sub>) and April 18<sup>th</sup> (O<sub>3</sub>, SO<sub>2</sub>, THC, TRS).

Parameter	Make	Model	Notes
SO <sub>2</sub>	TECO	43	No operational problems observed.
NO <sub>x</sub> /NO/NO <sub>2</sub>	TECO	42C	No operational problems observed.
O <sub>3</sub>	API	400	No operational problems observed.
CO	TECO	48C	No operational problems observed.
THC	TEI	51-CLT	Spans continued to be unstable prior to calibration due to pressure issues. After the calibration on April 18 <sup>th</sup> the spans were stable.
TRS	TEI	42C	No operational problems observed.
PM <sub>2.5</sub>	R&P	1400AB	Calibrated and removed existing TEOM unit and installed and calibrated the Environment Canada TEOM on April 7 <sup>th</sup> . Four (4) hours were removed due to baseline drift. No other operational problems observed.
RH	Met One	083D	No operational problems observed.
AT	Met One	083D	No operational problems observed.
SR	Met One	096-1	No operational problems observed.
WS	Met One	010C	No operational problems observed.
WD	Met One	020C	No operational problems observed.

## PASZA – Evergreen Park Station

### General Station Issues

The temperature in the station reached as high as 35°C, the fluctuating nature of the failing air conditioning unit created issues with the SO<sub>2</sub> analyzer. The air conditioning was replaced on April 24<sup>th</sup>. No other general station issues noted during the month of April. Calibrations were performed on April 19<sup>th</sup> (TEOM, SO<sub>2</sub>, and TRS).

Parameter	Make	Model	Notes
SO <sub>2</sub>	API	100	The fluctuating temperature change in the shelter created a marked effect on the SO <sub>2</sub> analyzer, causing an associated oscillating effect. There were eleven (11) hours removed due to baseline drift.
TRS	TEI	42C	No operational problems observed.
PM <sub>2.5</sub>	R&P	1400AB	Three (3) hours were removed due to baseline drift. No other operational issues observed.
AT	Met One	083D	Air conditioning unit replaced.
WS	Met One	010C	Thirty-two (32) hours of calm observed. No other operational problems observed.
WD	Met One	020C	No operational problems observed.

---



---

**PASZA – Smoky Heights Station**


---



---

**General Station Issues**

April 19<sup>th</sup> the air conditioning unit was replaced. No general station issues noted during the month of April. Calibrations were performed on April 3<sup>rd</sup> (TEOM, SO<sub>2</sub>, and TRS), and April 19<sup>th</sup> (TEOM).

Parameter	Make	Model	Notes
SO <sub>2</sub>	API	100A	The SO <sub>2</sub> analyzer was down from April 1 <sup>st</sup> 05:00 to April 3 <sup>rd</sup> 23:00 due to the UV lamp shutter on the analyzer sticking closed which in turn resulted in analyzer failure.
TRS	TEI	42C	For the first three days in April the TRS analyzer was affected by the temperature in the station, spans were high, the old perm tube was reinstalled on April 3 <sup>rd</sup> .
PM <sub>2.5</sub>	R&P	1400AB	The TEOM was out of service from April 3 <sup>rd</sup> 21:00 to April 19 <sup>th</sup> 20:00, it was replaced with the old unit from Henry Pirker on April 19 <sup>th</sup> . The magnet controlling the oscillation of the filter failed thus causing the analyzer to fail.
AT	Met One	083D	Air conditioner replaced on April 19 <sup>th</sup> .
WS	Met One	010C	No operational problems observed.
WD	Met One	020C	No operational problems observed.

---



---

**PASZA – Beaverlodge Station**


---



---

**General Station Issues**

April 10<sup>th</sup> the air conditioning unit was replaced. No general station issues noted during the month of April. Calibrations were performed on April 10<sup>th</sup> (NO<sub>x</sub>), and April 11<sup>th</sup> (TEOM, O<sub>3</sub> and SO<sub>2</sub>).

Parameter	Make	Model	Notes
SO <sub>2</sub>	TECO	43CTL	No operational problems observed.
NO <sub>x</sub> /NO/NO <sub>2</sub>	TECO	42C	No operational problems observed.
O <sub>3</sub>	API	400	No operational problems observed.
PM <sub>2.5</sub>	R&P	1400AB	Four (4) hours were removed due to baseline drift. No other operational problems were observed.
AT	n/a	n/a	Air conditioning unit replaced.
RH	n/a	n/a	No operational problems observed.
WS	Blue Sky	857	One (1) hour of calm observed. No other operational problems were observed.
WD	Blue Sky	857	No operational problems observed.

# PASZA - Henry Pirker Station

## Monthly Summary Tables, Graphs, and Roses



## PASZA - Henry Pirker - AQI Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

### Air Quality Index (AQI)

Monitoring Dates: April 1, 2006 to May 1, 2006

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:	611
Number of 1-hr Fair Readings:	67
Number of 1-hr Poor Readings:	2
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-Apr-06	17	N	7	8	6	7	7	7	15	17	18	18	22	22	22	22	21	20	18	16	16	18	18	18
2-Apr-06	N	19	20	18	15	12	12	11	16	16	18	18	20	31	N	23	23	22	21	19	18	17	10	N
3-Apr-06	14	10	7	5	5	5	7	7	9	9	13	16	20	22	23	24	24	23	19	11	21	29	N	13
4-Apr-06	6	8	6	4	6	6	6	10	8	15	17	20	22	23	24	24	24	23	22	17	12	N	10	13
5-Apr-06	7	7	5	4	5	6	9	18	16	21	11	13	18	20	23	26	26	26	24	20	N	17	19	21
6-Apr-06	19	20	20	19	17	13	11	10	12	N	N	19	20	22	24	25	24	23	18	N	16	16	16	15
7-Apr-06	13	10	6	5	7	8	17	28	N	N	N	N	N	27	27	29	29	27	24	20	18	17	20	21
8-Apr-06	22	21	20	19	15	N	13	12	13	17	19	21	23	25	27	28	27	28	25	22	40	47	51	44
9-Apr-06	52	19	14	20	N	26	22	23	26	28	28	27	26	25	24	23	22	22	22	21	20	18	19	19
10-Apr-06	20	17	16	N	13	7	11	13	14	18	22	23	23	24	25	24	25	24	23	14	26	19	14	15
11-Apr-06	13	10	N	14	7	6	7	10	11	15	19	23	25	25	25	26	25	25	24	18	14	20	21	17
12-Apr-06	18	N	15	10	8	7	9	11	10	16	20	21	22	20	18	18	16	19	21	19	18	18	20	22
13-Apr-06	N	22	19	18	18	16	12	10	17	20	20	21	20	21	22	22	21	21	22	23	19	18	20	20
14-Apr-06	17	15	17	12	11	N	14	11	13	13	16	16	22	24	23	23	22	21	20	20	18	16	15	18
15-Apr-06	14	12	13	14	N	9	6	7	11	17	20	22	23	22	22	22	21	21	21	19	14	14	8	9
16-Apr-06	6	5	6	N	7	5	4	6	9	12	16	21	21	22	23	24	24	23	23	21	17	17	17	17
17-Apr-06	16	15	N	10	6	6	6	10	11	17	20	20	21	21	21	20	20	21	20	20	16	13	6	8
18-Apr-06	14	N	15	14	10	6	8	8	13	1	1	N	23	23	24	25	25	23	21	14	11	9	8	26
19-Apr-06	21	21	7	13	15	N	10	8	13	22	23	24	25	26	27	24	23	22	20	15	15	15	12	8
20-Apr-06	8	9	12	9	N	6	8	8	13	17	19	20	22	23	23	22	21	21	21	19	17	14	13	15
21-Apr-06	17	16	18	N	19	17	15	16	16	17	17	17	17	18	19	17	18	18	17	15	17	16	15	15
22-Apr-06	15	15	N	14	14	14	14	15	19	20	20	21	22	23	23	23	23	23	22	19	12	9	13	11
23-Apr-06	11	N	9	8	7	6	5	7	12	15	18	19	21	23	24	25	28	28	26	21	15	18	18	19
24-Apr-06	N	8	8	7	5	6	6	9	12	15	18	22	24	26	29	32	32	32	31	24	20	20	20	N
25-Apr-06	23	24	17	19	14	16	25	18	17	18	19	25	30	31	32	30	28	29	29	26	19	16	N	15
26-Apr-06	12	10	12	11	11	12	10	14	13	19	27	27	27	27	28	29	28	27	25	25	22	N	22	20
27-Apr-06	18	17	15	14	12	13	9	16	22	23	24	24	24	25	27	27	28	26	25	22	N	8	16	19
28-Apr-06	17	12	13	15	14	9	7	8	16	19	20	20	19	21	22	22	20	17	16	N	12	9	11	13
29-Apr-06	14	13	14	19	20	21	22	23	25	26	27	26	26	27	28	28	28	26	N	25	22	21	18	17
30-Apr-06	17	15	14	15	14	8	13	17	18	20	22	22	23	23	24	24	25	N	25	23	15	13	13	15

# PASZA - Henry Pirker - Sulphur Dioxide Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

## Sulphur Dioxide (SO<sub>2</sub>)

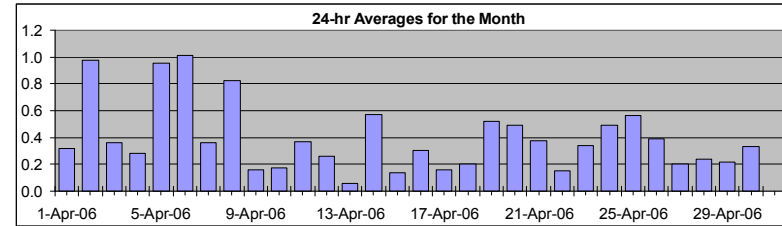
Monitoring Dates: April 1, 2006 to May 1, 2006

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:	3.3	ppb	14-Apr	10:00	11:00
Maximum 24-hr Average:	1.0	ppb	6-Apr		

AIC Time:	32 hrs		Operational Time:	685 hrs					
Calibration Time:	3 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	2.2	1.3	0.5	0.3	0.1	0.0	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																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-06	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.3	0.5
2-Apr-06	A	0	0	0	0	0	1	1	1	1	1	1	2	2	2	2	1	1	1	0	0	0	0	A	1.0	2.2
3-Apr-06	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	1	1	A	0	0.4	1.0	
4-Apr-06	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	A	0	0	0.3	0.7	
5-Apr-06	0	0	0	0	0	0	0	1	1	1	1	1	2	2	2	1	1	1	2	1	A	1	1	1.0	2.4	
6-Apr-06	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	0	0	A	0	0	0	1.0	2.1	
7-Apr-06	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.9	
8-Apr-06	0	0	0	1	0	A	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	0.8	2.0	
9-Apr-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
10-Apr-06	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	
11-Apr-06	0	0	A	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8	
12-Apr-06	0	A	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6	
13-Apr-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
14-Apr-06	0	0	0	0	1	A	1	0	1	2	3	3	0	0	0	0	0	0	0	0	0	0	0	0.6	3.3	
15-Apr-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
16-Apr-06	0	0	0	A	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	0	0	0.3	0.9	
17-Apr-06	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
18-Apr-06	0	A	0	0	0	0	0	1	0	0	0	C	C	C	A	0	0	0	0	0	0	0	1	0.2	0.6	
19-Apr-06	1	1	0	1	1	A	1	1	1	1	0	0	0	2	1	0	0	0	0	0	0	0	0	0.5	1.7	
20-Apr-06	0	0	0	0	A	0	1	1	1	1	1	1	1	0	1	1	0	1	1	0	0	0	0	0.5	1.4	
21-Apr-06	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0.4	3.2	
22-Apr-06	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
23-Apr-06	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0.3	0.5	
24-Apr-06	A	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	0	0	1	0	0	A	0.5	1.1	
25-Apr-06	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0	0	0	A	0	0.6	1.1	
26-Apr-06	0	0	0	0	0	0	0	1	0	1	2	1	0	0	0	0	0	0	0	0	A	0	0	0.4	1.6	
27-Apr-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.3	
28-Apr-06	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.2	0.7	
29-Apr-06	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0.2	0.9	
30-Apr-06	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	A	0	0	0	0	0	0.3	0.9	
Hourly Avg	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3		
Hourly Max	0.8	1.0	1.3	1.4	1.2	1.1	1.0	1.2	1.4	2.1	3.3	2.8	2.2	2.2	2.4	3.2	1.3	1.4	1.7	1.1	0.7	0.9	0.9	0.9		

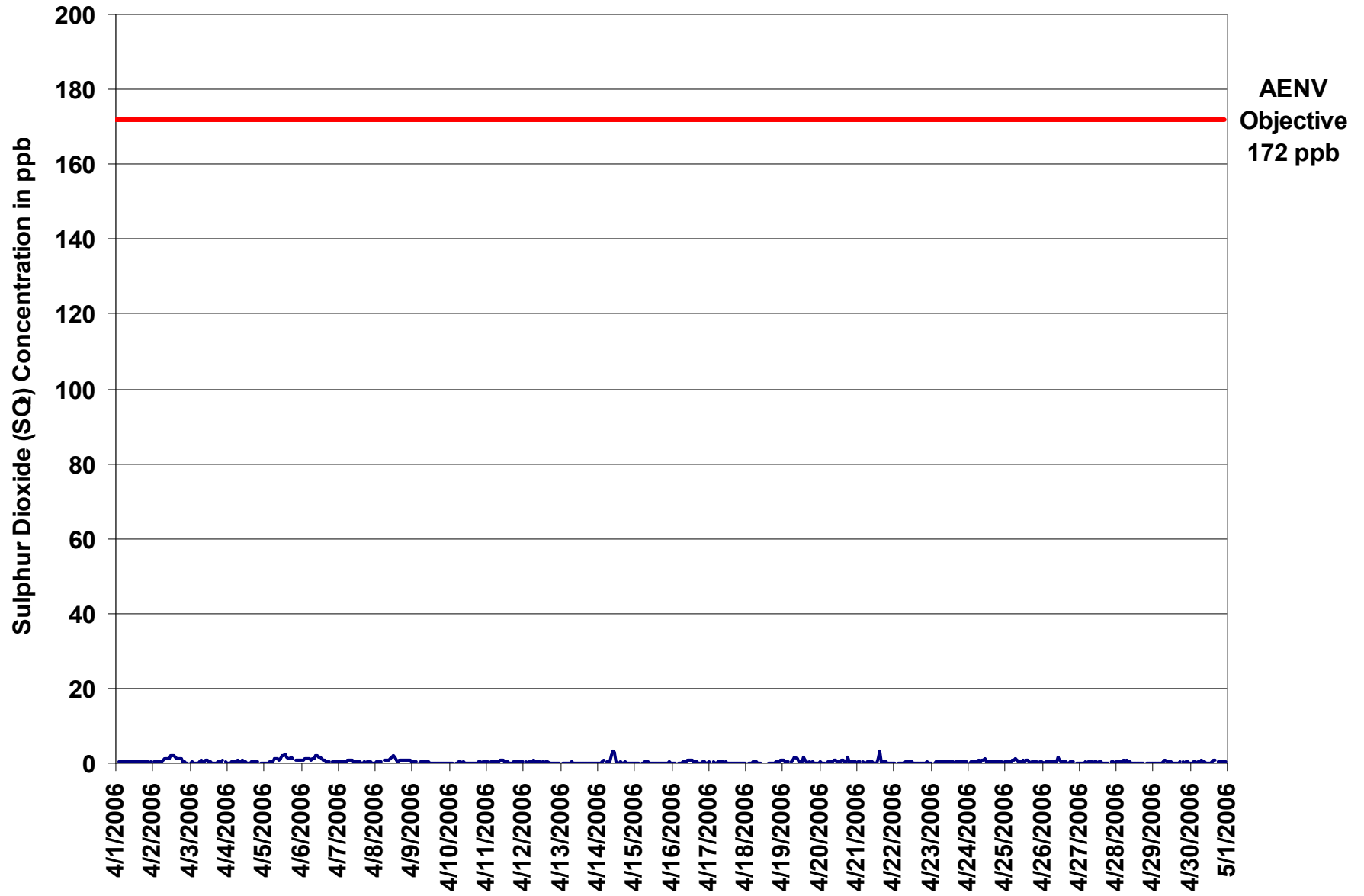


Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

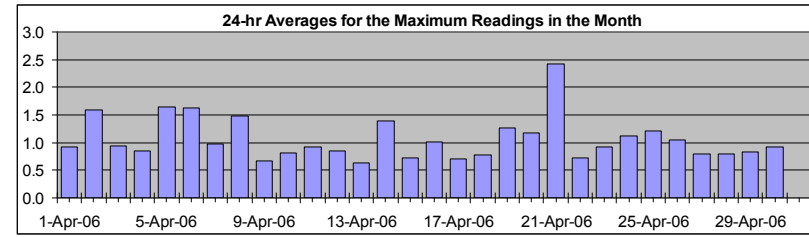
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Sulphur Dioxide (SO<sub>2</sub>)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Value:	20.5	ppb	21-Apr	14:00 15:00
Maximum 24-hr Value:	2.4	ppb	21-Apr	



AIC Time:	32 hrs	Operational Time:	685 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.2	2.0	1.1	0.9	0.7	0.5	0.4	1.1 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																									24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Apr-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2	
2-Apr-06	A	1	1	1	1	1	1	1	2	2	2	2	3	3	3	2	2	2	2	1	1	1	1	A	1.6	3.0	
3-Apr-06	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	2	2	A	1	0.9	1.7	
4-Apr-06	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.8	1.6	
5-Apr-06	1	1	1	1	1	1	1	2	2	2	1	2	3	3	3	2	2	2	2	2	A	1	1	2	1.7	3.2	
6-Apr-06	1	2	2	2	2	2	2	2	2	3	2	2	2	2	1	1	1	1	1	A	1	1	1	1	1.6	2.9	
7-Apr-06	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.6	
8-Apr-06	1	1	1	1	1	A	1	1	1	2	2	2	4	3	2	1	1	1	1	1	1	1	2	1	1.5	3.7	
9-Apr-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0.7	1.0	
10-Apr-06	1	1	1	A	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	0.8	1.9	
11-Apr-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.3	
12-Apr-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.4	
13-Apr-06	A	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	0.6	1.0	
14-Apr-06	1	1	1	1	2	A	1	1	1	4	5	6	2	1	1	1	1	1	1	1	1	1	1	1	1.4	5.7	
15-Apr-06	1	1	1	1	A	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0.7	1.1	
16-Apr-06	1	1	0	A	1	1	1	1	1	1	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1.0	2.8	
17-Apr-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0.7	1.0	
18-Apr-06	1	A	0	1	1	1	1	1	1	1	1	C	C	C	A	1	1	1	1	1	1	1	1	1	0.8	1.3	
19-Apr-06	1	2	1	1	1	A	1	1	2	2	1	1	4	2	1	1	1	1	1	1	1	1	1	1	1.3	3.6	
20-Apr-06	1	1	1	1	A	1	1	1	1	1	1	1	1	2	2	1	1	1	3	2	1	1	1	1	1.2	2.6	
21-Apr-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	20	20	1	1	1	1	1	1	0	0	2.4	20.5	
22-Apr-06	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	
23-Apr-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2	
24-Apr-06	A	1	1	1	1	1	1	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	A	1.1	2.0	
25-Apr-06	1	1	1	1	1	2	2	2	2	1	1	2	1	1	2	1	1	1	1	1	1	1	A	1	1.2	1.9	
26-Apr-06	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	A	1	1	1.0	2.4	
27-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	1.1	
28-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	A	1	1	1	1	0.8	1.3	
29-Apr-06	1	1	1	1	1	0	1	1	2	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.8	1.7	
30-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	A	1	1	1	1	1	1	0.9	1.6	
Hourly Avg	0.8	0.9	0.8	0.9	0.9	0.9	1.0	1.2	1.2	1.2	1.3	1.3	1.3	1.2	1.8	1.6	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8			
Hourly Max	1.4	1.7	1.8	2.0	1.7	1.6	1.8	1.9	2.5	3.8	4.7	5.7	3.7	3.6	20.5	19.7	2.0	1.9	2.6	2.1	1.5	1.7	1.8	1.6			

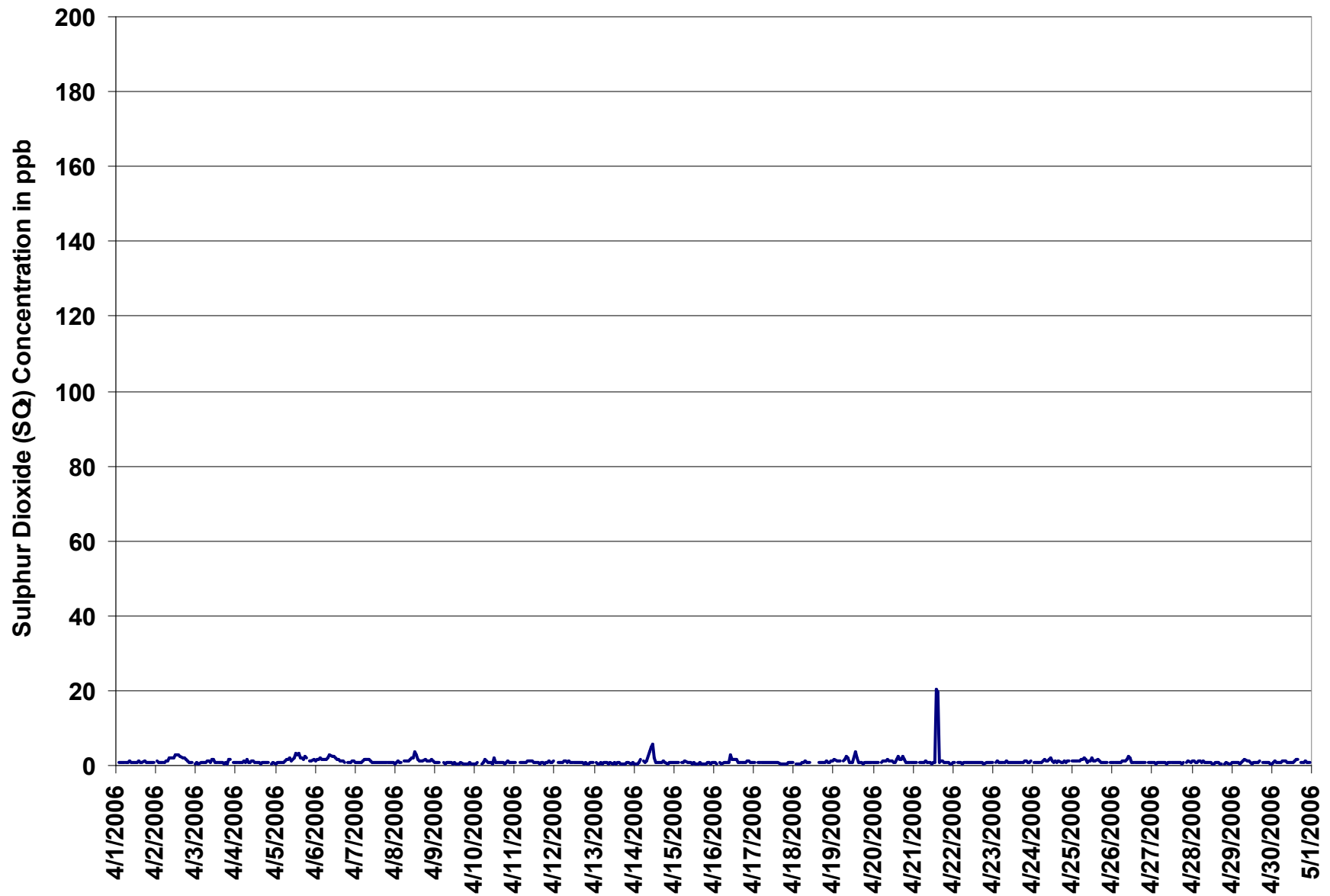
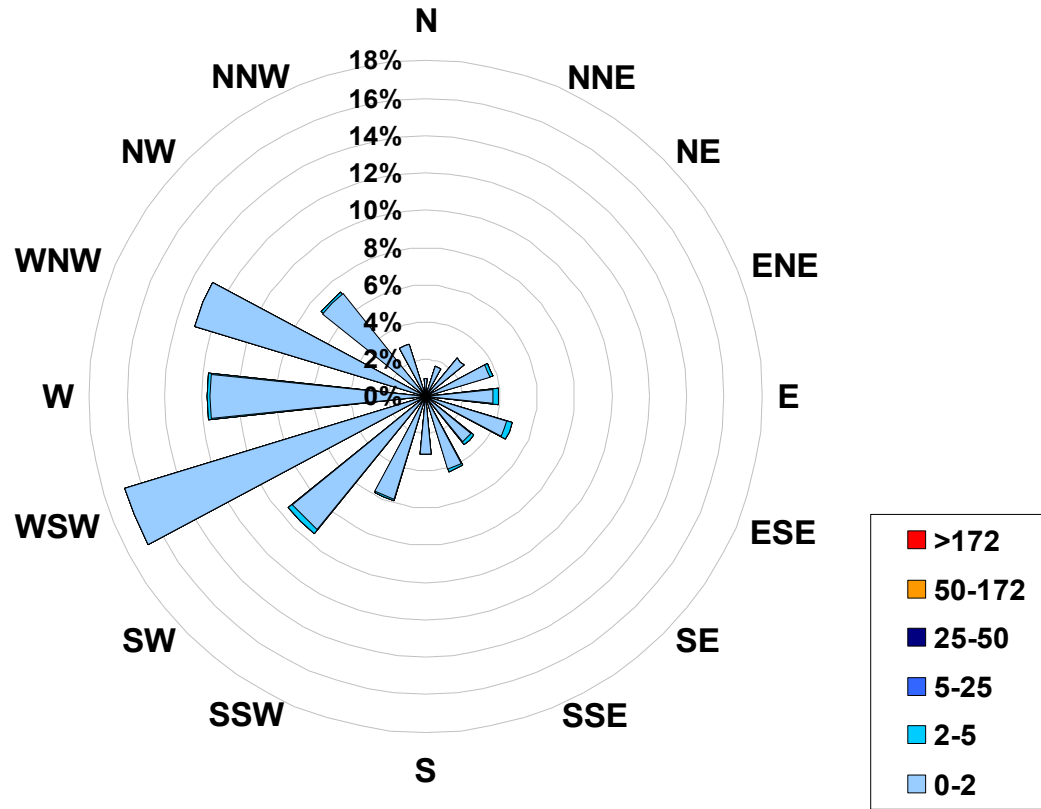


Figure 2. PASZA - Henry Pirker Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Henry Pirker Site for April 2006**



**Calms: 0%**

Frequency Distribution of SO <sub>2</sub> in ppb			Frequency (hrs)
Range			
0.0	< 2		673
2	to 5		12
5	to 25		0
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			685

# PASZA - Henry Pirker - Nitrogen Dioxide Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

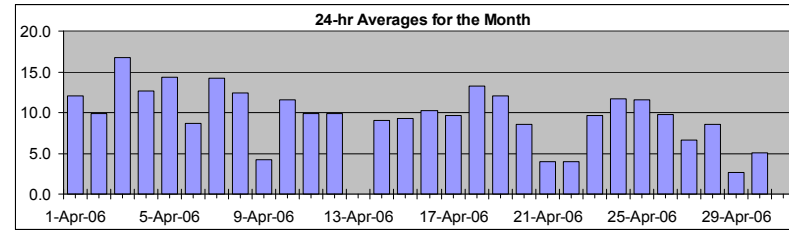
## Nitrogen Dioxide (NO<sub>2</sub>)

Monitoring Dates: April 1, 2006 to May 1, 2006

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:	42.8 ppb	3-Apr	20:00 21:00
Maximum 24-hr Average:	16.7 ppb	3-Apr	

AIC Time:	32 hrs	Operational Time:	681 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	36.9	28.7	13.5	6.4	3.1	1.5	1.0	9.7 ppb	6.4 ppb



### Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-06	9	A	22	21	25	17	28	27	13	10	9	8	5	4	4	4	5	7	9	12	12	10	8	9	12.1	27.6
2-Apr-06	A	8	7	7	9	15	16	18	10	12	9	11	10	10	10	6	7	8	9	7	5	7	14	A	9.8	18.2
3-Apr-06	8	14	17	23	18	23	29	29	16	16	9	7	4	3	2	2	2	4	12	28	43	41	A	33	16.7	42.8
4-Apr-06	18	9	10	18	18	24	20	25	14	11	7	3	2	2	2	3	5	7	8	16	24	A	20	24	12.6	24.8
5-Apr-06	12	13	10	17	22	22	24	27	29	39	19	14	7	6	5	5	6	7	11	A	15	9	5		14.3	39.1
6-Apr-06	5	5	5	5	6	10	12	15	14	13	10	8	6	4	4	3	4	5	12	A	14	12	10	15	8.6	14.9
7-Apr-06	13	16	22	22	24	33	35	31	24	18	9	8	5	3	2	2	3	5	8	13	15	15	9	6	14.2	35.1
8-Apr-06	4	5	6	6	9	A	16	18	16	8	5	4	4	3	3	3	4	3	6	24	31	36	42	32	12.5	41.8
9-Apr-06	17	9	4	3	A	5	8	5	3	3	3	3	2	2	3	3	3	2	3	3	3	4	3	3	4.2	16.6
10-Apr-06	2	4	6	A	11	27	41	35	13	7	3	3	3	2	2	3	2	2	4	18	39	19	12	8	11.6	40.8
11-Apr-06	8	13	A	10	21	26	27	20	14	9	5	2	1	2	1	1	2	3	5	13	20	9	7	9	9.9	26.5
12-Apr-06	7	A	6	12	16	29	37	33	14	6	3	2	2	3	6	8	9	4	4	6	8	7	4	1	9.9	36.6
13-Apr-06	A	3	4	5	6	10	16	21	C	C	C	C	C	C	C	A	7	7	6	6	12	12	5	5	N	20.9
14-Apr-06	11	13	8	20	22	A	14	20	16	16	9	9	2	1	1	2	3	4	5	5	7	7	10	5	9.0	22.3
15-Apr-06	6	9	10	7	A	14	24	28	15	5	2	1	1	1	2	2	3	2	3	7	12	6	17	38	9.3	37.8
16-Apr-06	26	20	26	A	30	20	12	16	14	12	7	4	5	4	2	2	2	2	2	5	11	6	4	4	10.2	30.0
17-Apr-06	4	5	A	13	19	25	25	17	14	6	3	3	3	3	3	3	3	2	3	3	8	13	26	18	9.7	26.2
18-Apr-06	7	A	8	9	15	26	32	32	14	5	3	2	2	2	2	1	2	2	3	5	15	34	21	27	13.2	35.3
19-Apr-06	35	35	26	13	9	A	23	27	17	4	3	2	2	1	2	2	3	3	7	13	12	10	12	19	12.1	35.3
20-Apr-06	18	15	9	11	A	24	28	18	10	7	6	5	5	3	3	4	4	3	3	3	4	7	5	3	8.6	28.4
21-Apr-06	2	3	2	A	3	7	9	7	6	5	4	4	5	3	3	6	5	3	4	4	2	2	2	2	3.9	9.2
22-Apr-06	2	1	A	2	2	2	2	2	1	1	2	1	1	1	1	1	1	2	2	6	17	21	10	12	4.0	20.6
23-Apr-06	11	A	12	17	31	26	22	15	9	5	4	3	2	2	1	2	1	2	3	10	20	10	8	7	9.7	31.3
24-Apr-06	A	8	8	10	21	22	21	23	15	11	10	9	4	5	4	3	5	5	6	13	19	18	16	A	11.7	23.2
25-Apr-06	6	4	11	8	30	33	33	35	27	10	9	4	2	2	2	3	4	3	3	5	11	11	A	A	11.5	35.4
26-Apr-06	9	12	11	17	21	25	32	24	12	5	4	4	4	5	4	3	4	4	4	5	8	A	3	2	9.7	31.9
27-Apr-06	3	4	7	8	11	9	18	9	2	2	2	2	2	2	2	3	4	4	4	6	A	29	14	6	6.7	29.3
28-Apr-06	6	13	16	10	12	20	24	23	9	4	4	5	6	2	2	3	3	2	3	A	9	10	7	3	8.6	24.0
29-Apr-06	2	3	2	1	1	1	3	3	3	2	1	2	2	1	2	1	2	4	A	5	7	6	6	3	2.7	6.5
30-Apr-06	3	4	5	4	6	14	9	3	3	2	1	1	1	1	1	1	1	A	3	4	14	18	11	6	5.0	17.7
Hourly Avg	9.5	9.6	10.4	11.0	15.4	18.9	21.3	20.2	12.7	8.7	5.7	4.6	3.4	2.9	2.8	3.0	3.5	3.9	5.2	9.6	15.0	13.6	11.4	11.5		
Hourly Max	35.3	34.9	26.2	22.6	31.3	33.0	40.8	35.4	28.7	39.1	19.3	13.7	10.2	10.1	10.5	8.2	9.0	7.8	12.3	28.3	42.8	41.2	41.8	37.8		

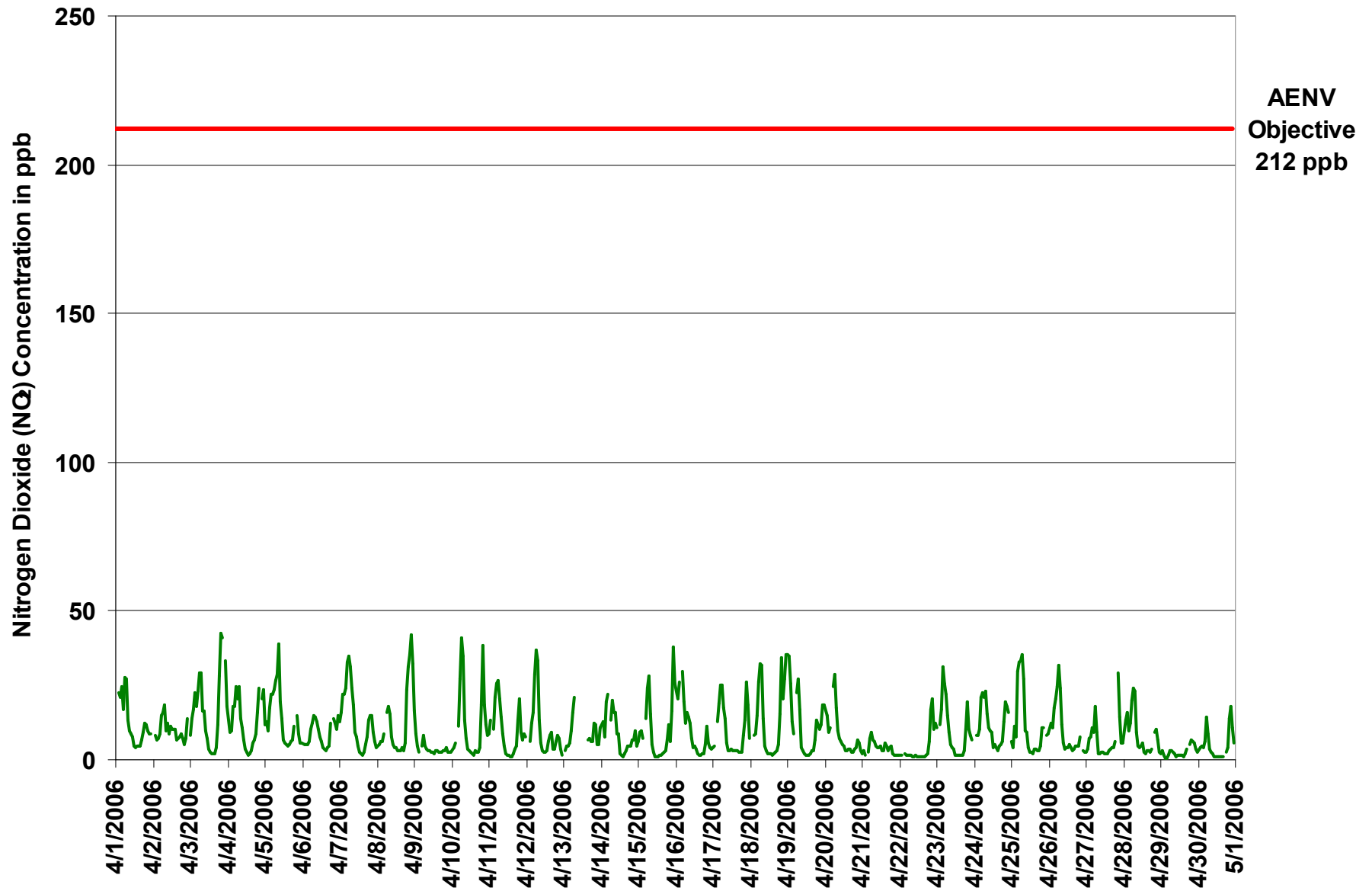


Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend



Station: Henry Pirker  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

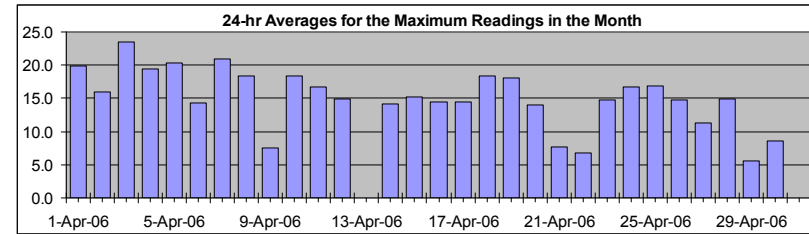
**Nitrogen Dioxide (NO<sub>2</sub>)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Value:	48.2	ppb	8-Apr	22:00 23:00
Maximum 24-hr Value:	23.5	ppb	3-Apr	

AIC Time:	32 hrs	Operational Time:	681 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	46.6	37.6	22.6	11.4	6.0	3.0	2.2	15.0 ppb	11.4 ppb



**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Apr-06	14	A	31	27	30	23	42	42	19	17	18	21	7	7	8	10	11	13	17	21	22	21	16	22	19.9	42.5	
2-Apr-06	A	15	12	17	14	23	23	24	13	16	11	14	14	12	12	11	13	13	17	24	11	20	21	A	15.9	23.9	
3-Apr-06	12	19	21	32	30	33	33	34	32	24	15	11	7	5	5	4	6	11	27	40	47	48	A	45	23.5	47.5	
4-Apr-06	31	12	13	26	27	29	26	32	23	16	9	8	4	3	4	5	15	13	21	24	47	A	29	27	19.4	47.4	
5-Apr-06	17	16	19	23	25	28	29	30	45	47	33	23	10	9	8	8	8	8	12	23	A	27	15	8	20.4	46.6	
6-Apr-06	12	9	7	6	9	17	18	19	22	21	13	11	9	5	7	7	13	14	24	A	24	21	19	23	14.4	24.5	
7-Apr-06	23	22	26	32	31	47	44	42	30	26	12	11	8	4	4	4	6	10	15	25	23	28	17	12	20.9	46.9	
8-Apr-06	7	7	13	9	14	A	21	28	24	15	10	6	6	6	4	6	7	10	10	40	44	45	48	43	18.4	48.2	
9-Apr-06	27	14	8	5	A	7	13	8	7	6	5	4	4	4	7	5	5	4	6	7	12	4	4	4	7.5	27.4	
10-Apr-06	5	6	8	A	25	34	48	42	30	12	8	5	7	4	5	7	8	5	11	36	47	40	19	11	18.4	48.1	
11-Apr-06	18	21	A	17	31	36	32	26	18	16	7	4	3	4	4	3	8	7	10	29	36	25	17	15	16.7	36.0	
12-Apr-06	16	A	9	23	21	35	41	39	25	8	6	4	5	7	13	17	20	6	5	10	11	11	6	4	14.8	41.3	
13-Apr-06	A	5	7	7	8	14	24	29	C	C	C	C	C	C	C	A	11	12	10	10	21	19	11	7	N	28.8	
14-Apr-06	17	21	10	27	31	A	18	28	27	26	12	14	15	2	3	5	6	9	7	10	10	9	13	7	14.1	31.0	
15-Apr-06	9	25	15	10	A	26	29	36	28	8	5	2	3	3	7	3	3	4	6	12	21	13	36	45	15.2	44.6	
16-Apr-06	39	26	33	A	33	30	15	21	19	16	12	6	8	5	4	2	5	5	3	11	15	13	9	6	14.5	38.6	
17-Apr-06	7	7	A	20	25	31	31	25	18	11	5	7	7	5	6	5	5	5	4	5	15	21	34	35	14.5	35.1	
18-Apr-06	10	A	11	11	18	38	37	37	21	9	7	5	7	4	4	6	5	8	9	27	42	34	36	40	18.4	41.6	
19-Apr-06	39	38	39	24	13	A	34	31	24	7	5	5	4	4	5	5	7	6	9	20	20	22	28	29	18.0	38.8	
20-Apr-06	29	20	18	25	A	29	31	26	17	14	15	9	6	7	7	8	9	5	6	7	7	10	9	7	14.0	31.4	
21-Apr-06	3	8	3	A	4	13	15	13	10	9	9	9	9	5	5	11	10	5	11	13	3	3	3	2	7.6	15.1	
22-Apr-06	3	2	A	3	3	3	3	3	2	3	4	2	2	2	3	3	3	3	4	5	15	24	28	17	18	6.7	27.9
23-Apr-06	13	A	17	36	38	32	26	22	14	7	8	7	3	2	3	3	3	3	8	25	35	17	12	9	14.7	38.2	
24-Apr-06	A	13	12	14	24	27	25	31	29	16	13	15	7	7	5	5	9	8	13	21	30	22	23	A	16.8	30.8	
25-Apr-06	10	7	20	15	37	42	43	42	38	15	12	7	5	7	6	7	7	6	5	8	17	18	A	13	16.8	42.6	
26-Apr-06	12	15	17	24	24	33	38	30	31	9	7	6	6	9	9	9	8	8	8	8	13	A	11	4	14.7	37.5	
27-Apr-06	5	7	11	11	13	19	25	23	6	4	5	5	5	4	6	6	7	8	8	11	A	39	25	9	11.4	39.0	
28-Apr-06	9	20	27	12	19	35	37	31	19	9	8	12	10	9	5	7	8	4	5	A	13	16	27	5	14.9	36.7	
29-Apr-06	4	8	9	1	2	4	6	6	5	4	4	4	4	3	4	2	5	10	A	8	10	10	8	7	5.5	10.1	
30-Apr-06	4	6	6	5	14	20	13	5	4	4	2	3	3	3	2	3	3	A	5	7	27	29	15	14	8.5	28.7	
Hourly Avg	14.5	14.1	15.6	17.1	20.9	26.2	27.4	26.8	20.6	13.7	9.6	8.2	6.5	5.2	5.6	6.0	7.7	7.8	10.3	17.7	22.8	22.0	18.8	16.7			
Hourly Max	38.8	37.6	38.6	35.9	38.2	46.9	48.1	42.5	44.7	46.6	33.1	23.1	15.3	11.8	12.6	16.6	19.6	13.8	27.4	40.5	47.4	47.5	48.2	45.1			

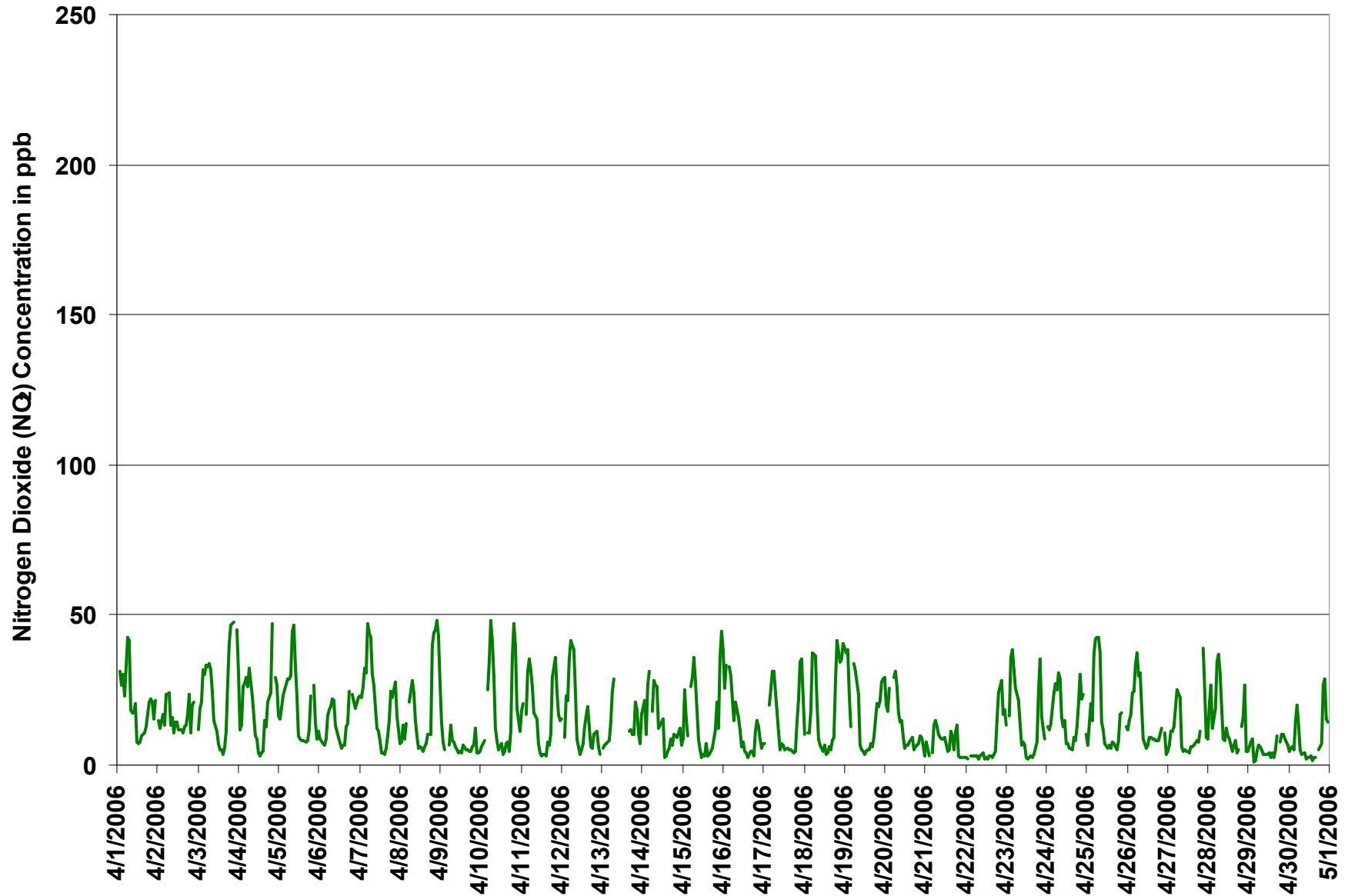
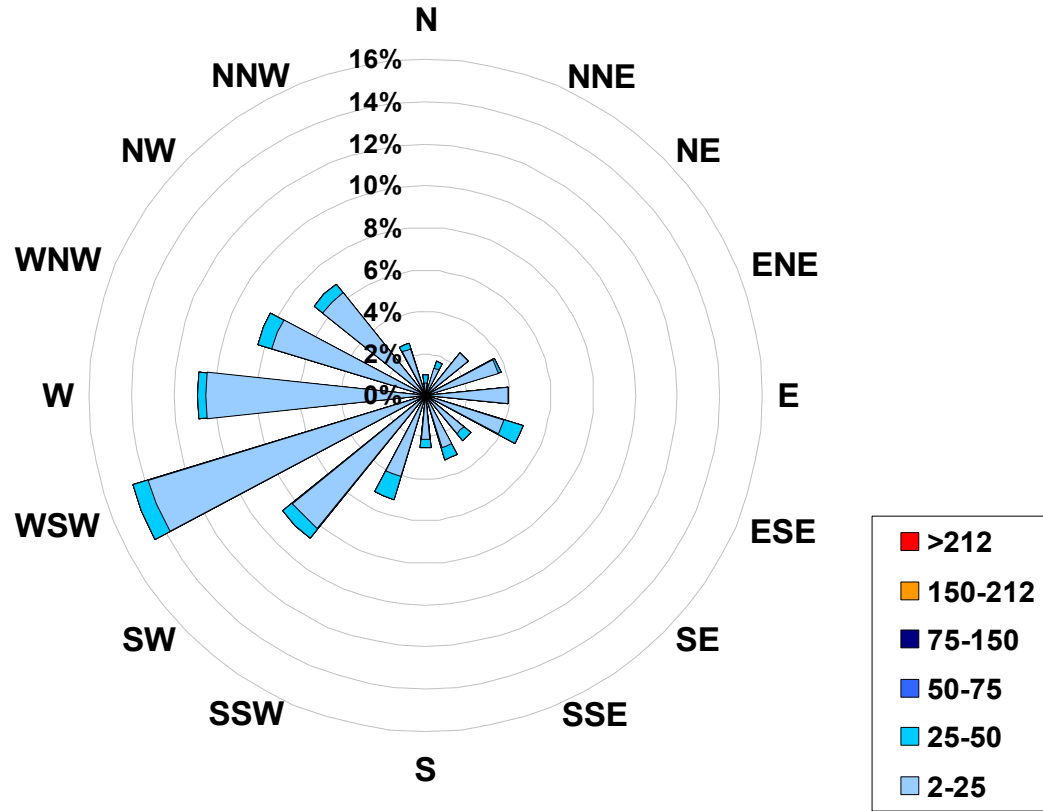


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Henry Pirker Site for April 2006**



**Calms: 0%**

Frequency Distribution of NO <sub>2</sub> in ppb			Frequency (hrs)
Range			
2.0	< 25		657
25	to 50		17
50	to 75		6
75	to 150		1
150	to 212		0
	> 212		0
Total Non-Zero Values			681

# PASZA - Henry Pirker - Nitric Oxide Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

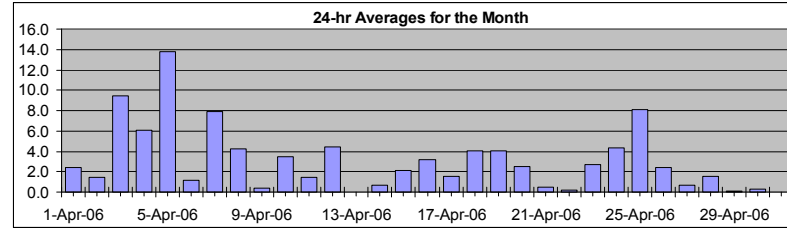
## Nitric Oxide (NO)

Monitoring Dates: April 1, 2006 to May 1, 2006

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

Maximum 1-hr Average:	92.9	ppb	5-Apr	7:00 8:00
Maximum 24-hr Average:	13.8	ppb	5-Apr	

AIC Time:	32 hrs	Operational Time:	681 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	48.0	17.1	1.6	0.5	0.2	0.0	0.0	3.2 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	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-06	0	A	1	0	2	0	8	12	3	3	3	3	2	2	2	2	2	1	1	2	1	2	1	1	2.4	12.4
2-Apr-06	A	1	0	0	0	1	1	3	2	3	3	4	4	3	2	1	1	1	0	0	0	0	0	A	1.4	3.7
3-Apr-06	0	0	0	1	1	4	20	38	9	9	5	4	1	1	0	0	0	1	1	1	30	74	A	18	9.5	74.4
4-Apr-06	2	0	0	3	1	28	29	45	9	5	3	1	1	0	0	1	1	1	2	1	2	A	1	4	6.0	45.2
5-Apr-06	1	1	1	3	13	13	38	93	66	59	13	7	3	1	1	1	1	1	1	0	A	0	0	0	13.8	92.9
6-Apr-06	0	0	0	0	0	1	2	3	4	3	3	3	2	1	1	1	1	0	1	A	0	0	0	0	1.2	3.9
7-Apr-06	0	0	1	2	3	11	60	66	20	11	4	3	1	1	1	0	0	1	1	1	1	1	0	0	7.9	65.7
8-Apr-06	0	0	0	0	0	A	1	1	2	2	2	1	1	1	1	0	1	0	0	1	3	14	34	31	4.2	34.0
9-Apr-06	1	0	0	0	A	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0.4	1.4
10-Apr-06	0	0	0	A	0	2	27	23	4	3	1	1	2	1	0	0	0	0	0	1	13	1	0	0	3.5	26.7
11-Apr-06	0	0	A	0	1	1	5	8	7	4	2	1	0	0	0	0	0	1	0	1	1	0	0	0	1.4	7.7
12-Apr-06	0	A	0	0	0	7	29	45	7	2	1	1	1	1	1	1	3	1	1	0	0	0	0	0	4.4	44.6
13-Apr-06	A	0	0	0	0	1	2	8	C	C	C	C	C	C	C	A	1	1	0	0	0	0	0	0	N	8.1
14-Apr-06	0	0	0	0	0	A	1	2	3	5	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0.7	4.6
15-Apr-06	0	0	0	0	A	1	5	17	8	2	1	0	0	0	0	0	0	0	0	0	0	0	2	9	2.1	17.2
16-Apr-06	2	0	4	A	12	7	7	18	11	6	2	1	2	1	1	0	0	0	0	0	0	0	0	0	3.1	17.5
17-Apr-06	0	0	A	0	1	2	7	5	6	3	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1.5	7.3
18-Apr-06	0	A	0	0	0	2	11	28	6	2	1	1	1	0	0	0	0	1	1	1	13	1	4	20	4.1	28.2
19-Apr-06	39	24	2	0	0	A	4	10	6	1	0	0	0	0	0	0	1	1	1	1	0	0	1	1	4.1	38.5
20-Apr-06	0	0	0	0	A	8	29	5	2	2	2	2	1	1	1	1	1	1	1	0	0	0	0	0	2.5	28.8
21-Apr-06	0	0	0	A	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0.4	1.2
22-Apr-06	0	0	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
23-Apr-06	0	A	0	1	15	7	13	10	4	2	2	1	0	0	0	0	0	0	0	1	3	0	0	0	2.7	15.4
24-Apr-06	A	0	0	0	5	13	19	30	9	5	4	3	1	1	1	1	1	1	1	0	0	0	0	A	4.3	30.3
25-Apr-06	0	0	0	0	6	38	62	44	24	4	3	1	0	0	0	1	1	0	0	0	0	0	A	0	8.1	62.1
26-Apr-06	0	0	0	0	0	11	15	17	7	2	1	1	1	1	1	0	0	0	0	0	0	0	A	0	2.4	17.1
27-Apr-06	0	0	0	0	0	1	4	3	1	1	1	1	1	1	1	1	1	0	0	0	A	1	0	0	0.7	4.3
28-Apr-06	0	0	0	0	0	1	7	12	3	1	2	1	1	0	0	1	1	1	1	A	0	1	0	0	1.5	12.0
29-Apr-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.1	0.2
30-Apr-06	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.3	1.3
Hourly Avg	1.7	1.1	0.4	0.5	2.3	6.0	13.6	18.3	7.8	4.8	2.2	1.6	1.0	0.7	0.6	0.6	0.6	0.6	0.5	0.5	2.5	3.5	1.7	3.1		
Hourly Max	38.5	24.4	4.0	2.7	15.4	38.3	62.1	92.9	65.8	59.2	12.6	7.5	3.6	3.0	2.1	1.7	2.7	1.7	1.5	1.4	29.9	74.4	34.0	30.8		

Station: Henry Pirker  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

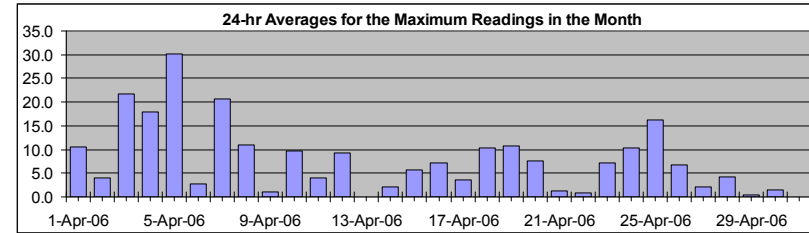
**Nitric Oxide (NO)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Value:	136.4	ppb	7-Apr	6:00 7:00
Maximum 24-hr Value:	30.2	ppb	5-Apr	

AIC Time:	32 hrs	Operational Time:	681 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	106.5	38.2	6.0	1.7	0.7	0.0	0.0	8.2 ppb	1.7 ppb



**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-Apr-06	2	A	4	3	5	1	47	34	9	14	10	16	6	6	4	8	8	5	9	7	14	11	9	9	10.5	46.6	
2-Apr-06	A	7	9	6	4	8	5	5	3	5	4	7	7	4	3	3	2	2	1	2	1	1	1	A	4.0	9.4	
3-Apr-06	0	0	0	5	4	18	34	64	37	16	10	9	3	2	1	1	2	14	9	5	103	124	A	38	21.7	123.9	
4-Apr-06	15	1	1	12	8	105	49	111	22	9	4	4	2	1	1	2	8	5	15	16	10	A	5	9	18.0	111.3	
5-Apr-06	7	2	8	7	126	62	61	123	105	111	38	17	6	3	3	2	5	3	2	1	A	1	1	1	30.2	126.3	
6-Apr-06	1	1	1	1	3	3	4	5	9	7	5	4	3	2	3	3	3	1	2	A	2	2	1	1	2.8	8.5	
7-Apr-06	1	5	2	30	12	46	136	120	38	21	6	5	3	1	1	2	2	7	5	14	15	18	2	5	20.6	136.4	
8-Apr-06	1	1	4	1	1	A	5	7	6	5	3	2	2	2	2	1	3	3	1	5	24	37	70	71	11.1	71.1	
9-Apr-06	7	2	1	0	A	0	1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	0	0	1.1	6.8	
10-Apr-06	1	0	0	A	1	11	62	34	17	5	3	2	33	1	2	1	1	1	1	3	33	11	1	1	9.8	62.4	
11-Apr-06	3	0	A	1	5	6	9	12	11	9	3	2	1	2	3	2	2	7	1	3	4	0	0	6	3.9	11.6	
12-Apr-06	8	A	1	1	5	29	53	68	18	3	3	1	2	2	4	3	7	2	2	1	1	1	1	0	9.3	67.9	
13-Apr-06	A	1	1	1	1	2	4	15	C	C	C	C	C	C	C	A	2	1	1	0	0	0	0	0	N	14.6	
14-Apr-06	0	0	0	1	1	A	2	4	11	11	3	3	3	1	1	1	1	1	0	0	0	0	0	0	2.0	10.9	
15-Apr-06	0	2	1	0	A	9	7	42	20	3	2	1	1	1	1	2	1	1	1	0	1	0	16	19	5.7	41.8	
16-Apr-06	8	2	9	A	29	30	17	24	16	12	4	2	3	2	1	1	0	1	0	0	0	0	0	0	7.1	30.0	
17-Apr-06	0	0	A	1	6	6	17	11	9	5	2	2	2	2	2	1	2	1	1	0	0	0	1	4	5	3.6	16.9
18-Apr-06	0	A	0	0	0	8	25	42	11	3	2	1	2	1	1	2	1	1	1	3	46	11	37	36	10.4	46.5	
19-Apr-06	59	51	16	2	2	A	12	13	11	2	1	1	1	1	1	1	1	1	1	1	0	1	43	26	10.8	58.5	
20-Apr-06	4	3	0	4	A	30	56	15	6	5	9	14	2	3	2	7	3	3	3	2	1	1	1	0	7.6	55.7	
21-Apr-06	0	0	0	A	0	1	1	1	2	2	2	4	3	2	2	2	2	2	1	1	1	1	0	1	1.4	3.7	
22-Apr-06	0	1	A	0	1	1	1	1	1	1	1	1	1	1	1	2	1	0	0	0	0	1	0	0	0.8	1.8	
23-Apr-06	0	A	1	14	35	22	25	21	8	3	3	3	1	1	1	0	1	1	5	19	1	1	1	1	7.3	34.5	
24-Apr-06	A	0	1	1	17	44	38	55	28	8	5	6	2	3	2	2	2	2	3	2	1	1	1	A	10.3	55.3	
25-Apr-06	1	0	1	0	35	85	95	82	46	7	5	2	1	1	1	2	2	1	1	1	1	2	A	1	16.2	94.8	
26-Apr-06	0	0	1	1	1	37	30	32	28	3	2	2	1	1	10	1	1	1	1	0	0	A	0	0	6.8	36.7	
27-Apr-06	0	0	1	1	1	2	11	11	2	2	2	2	2	1	2	2	1	1	1	1	A	3	0	0	2.1	11.4	
28-Apr-06	0	1	1	0	2	12	21	20	10	3	3	4	2	1	1	1	3	1	1	A	1	2	4	1	4.3	21.4	
29-Apr-06	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1	A	0	0	0	0	0	0.5	1.0	
30-Apr-06	0	0	1	0	8	6	2	1	1	1	1	1	1	1	1	1	1	A	1	0	1	1	1	2	1.5	7.6	
Hourly Avg	4.4	3.1	2.4	3.3	11.5	21.6	27.7	32.5	16.8	9.7	4.9	4.1	3.5	1.7	2.1	2.0	2.3	2.4	2.3	2.8	10.1	8.4	7.1	8.4			
Hourly Max	58.5	50.6	15.5	29.6	126.3	105.0	136.4	122.8	105.3	111.3	37.6	16.9	33.2	6.1	10.4	7.6	8.0	14.0	15.0	16.4	102.8	123.9	69.9	71.1			

# PASZA - Henry Pirker - Oxides of Nitrogen Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

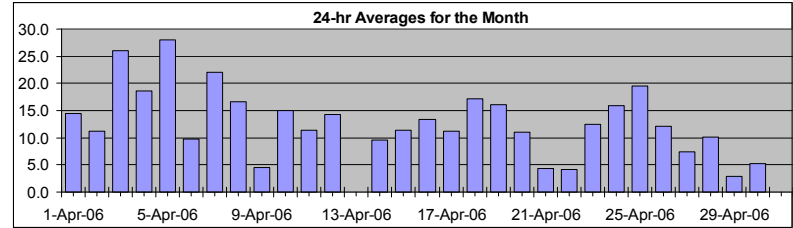
## Oxides of Nitrogen (NO<sub>x</sub>)

Monitoring Dates: April 1, 2006 to May 1, 2006

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

Maximum 1-hr Average:	119.1	ppb	5-Apr	7:00 8:00
Maximum 24-hr Average:	28.0	ppb	5-Apr	

AIC Time:	32 hrs	Operational Time:	681 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	82.6	46.6	15.1	7.0	3.7	1.7	1.2	12.9 ppb	7.0 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-Apr-06	10	A	23	21	26	17	35	40	16	13	11	11	6	6	6	6	8	10	13	14	11	10	10	14.4	39.5	
2-Apr-06	A	9	7	8	9	16	17	21	12	16	12	15	14	13	13	8	8	9	9	7	5	7	14	A	11.2	21.1
3-Apr-06	8	14	17	24	19	27	49	67	25	25	14	11	5	3	3	2	2	5	12	30	72	115	A	51	26.1	115.2
4-Apr-06	20	9	9	20	19	52	49	70	22	15	9	4	3	2	2	4	7	8	10	17	26	A	22	28	18.6	69.8
5-Apr-06	13	13	10	20	35	35	62	119	94	98	32	21	10	7	6	6	7	7	8	12	A	15	9	6	28.0	119.1
6-Apr-06	6	5	5	5	6	11	14	18	18	16	14	10	8	5	5	4	5	5	13	A	14	13	10	15	9.8	18.1
7-Apr-06	13	16	23	24	27	44	95	97	44	29	13	11	6	3	3	2	3	6	9	14	16	16	9	6	22.0	96.9
8-Apr-06	4	5	6	6	9	A	17	19	18	10	7	5	5	4	3	4	4	3	6	25	34	49	76	63	16.6	75.5
9-Apr-06	18	9	5	3	A	5	9	5	4	3	3	3	3	3	4	4	3	3	3	3	3	4	3	3	4.6	17.9
10-Apr-06	3	4	6	A	12	29	67	57	18	10	5	4	4	2	2	3	3	3	5	19	51	20	12	8	15.1	67.3
11-Apr-06	9	13	A	10	22	27	31	28	21	13	6	3	2	2	1	1	2	4	5	14	21	9	7	9	11.3	31.4
12-Apr-06	8	A	6	13	16	36	65	78	20	8	4	3	3	4	7	9	12	5	4	7	8	7	4	2	14.3	77.5
13-Apr-06	A	3	5	5	6	10	18	29	C	C	C	C	C	C	C	A	8	8	7	6	12	12	5	5	N	28.9
14-Apr-06	10	13	8	20	23	A	14	22	18	20	10	10	3	2	2	2	4	5	5	5	7	7	10	5	9.6	22.5
15-Apr-06	6	10	10	7	A	15	29	46	24	7	3	2	1	2	2	2	2	3	3	7	12	6	19	47	11.4	46.9
16-Apr-06	27	21	30	A	41	26	19	33	25	18	10	5	6	5	3	2	2	2	2	5	11	6	4	4	13.3	41.3
17-Apr-06	4	5	A	13	20	27	32	22	20	8	4	4	4	4	4	4	4	3	3	3	8	13	27	19	11.1	32.5
18-Apr-06	7	A	8	9	15	28	44	60	20	6	4	3	2	2	2	3	3	4	6	16	48	22	31	55	17.2	59.7
19-Apr-06	74	59	27	13	9	A	26	37	23	5	4	2	2	2	2	3	4	7	14	12	10	13	19	16.1	73.7	
20-Apr-06	18	15	9	11	A	33	57	22	12	9	8	7	6	4	4	5	4	3	3	4	4	7	6	3	11.1	57.1
21-Apr-06	2	3	2	A	3	7	10	7	7	5	5	6	6	4	4	7	5	3	4	5	2	2	2	2	4.4	9.6
22-Apr-06	2	1	A	2	2	2	2	2	2	2	2	1	1	1	1	1	1	2	2	6	17	21	10	12	4.2	20.9
23-Apr-06	11	A	12	18	47	33	36	25	13	7	6	5	2	2	2	2	1	2	3	11	22	10	8	7	12.4	46.6
24-Apr-06	A	8	8	10	26	35	40	53	24	15	13	12	5	6	5	4	5	5	7	13	19	18	16	A	15.9	53.4
25-Apr-06	6	4	11	8	35	71	95	80	51	14	12	5	3	3	2	4	5	3	3	5	11	11	A	A	19.6	95.1
26-Apr-06	9	12	11	17	21	35	46	41	18	7	4	5	5	6	5	4	4	5	5	5	8	A	3	3	12.1	46.5
27-Apr-06	3	4	7	8	11	10	22	12	3	3	3	3	3	3	3	4	4	4	4	6	A	30	14	6	7.4	29.7
28-Apr-06	6	14	16	10	13	21	31	35	12	6	6	6	7	3	2	4	4	3	4	A	10	11	7	3	10.1	35.0
29-Apr-06	2	3	2	1	1	1	3	3	3	2	1	2	2	2	2	1	2	4	A	5	7	6	6	4	2.9	6.6
30-Apr-06	3	4	5	4	6	16	10	4	4	3	1	2	1	2	1	1	1	A	3	4	14	18	11	4	5.3	18.0
Hourly Avg	11.2	10.6	10.7	11.4	17.7	24.8	34.8	38.4	20.4	13.5	7.9	6.2	4.4	3.5	3.4	3.6	4.2	4.4	5.7	10.0	17.5	17.0	13.1	14.5		
Hourly Max	73.7	59.2	30.1	24.4	46.6	71.1	95.1	119.1	94.1	97.9	31.8	21.1	13.8	12.9	12.5	9.2	11.7	8.6	12.8	29.6	72.5	115.2	75.5	62.6		

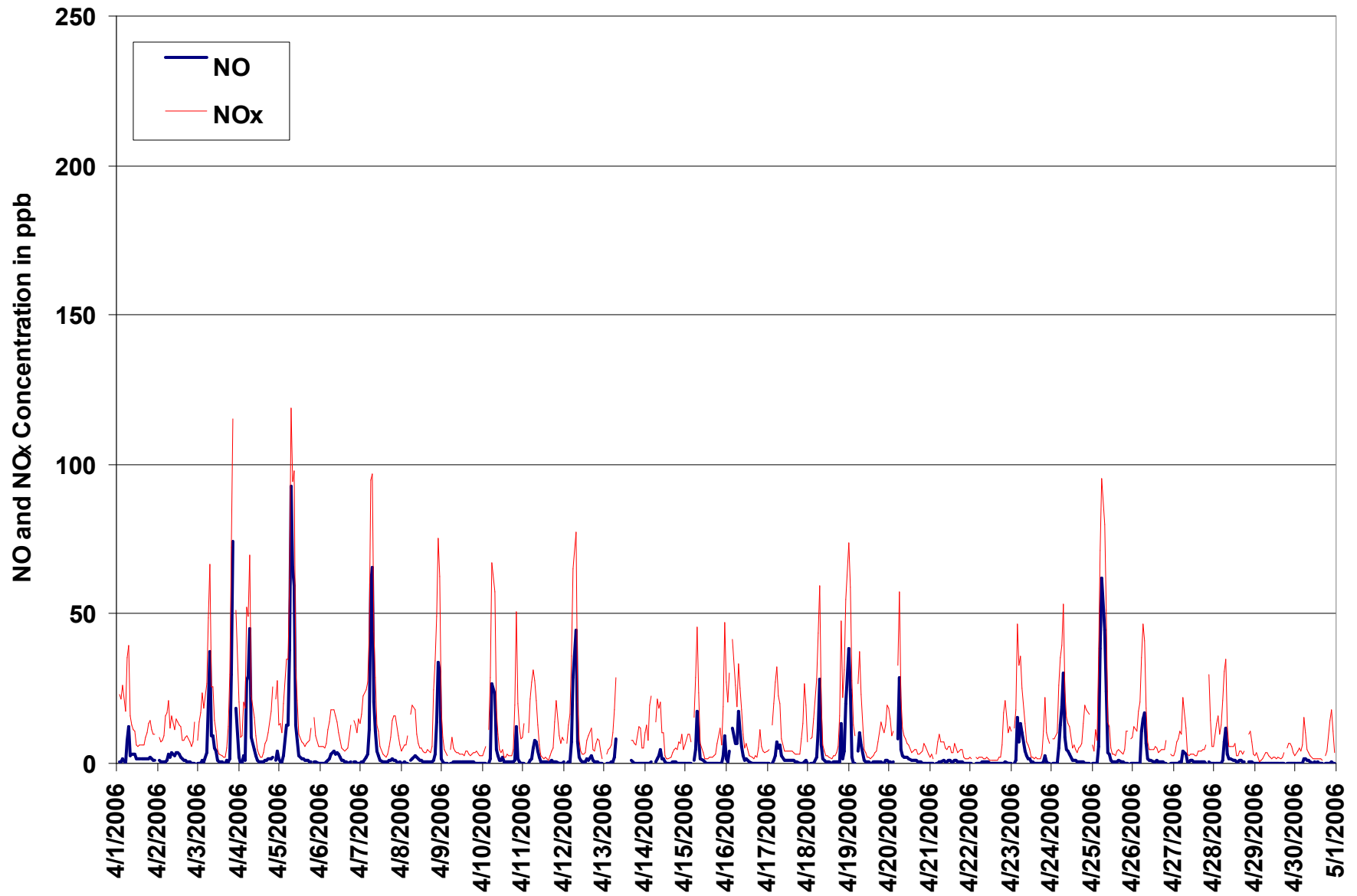


Figure 5. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

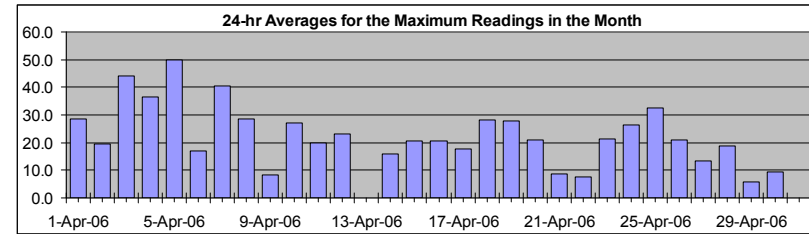
**Oxides of Nitrogen (NO<sub>x</sub>)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Value:	177.9	ppb	7-Apr	6:00 7:00
Maximum 24-hr Value:	50.0	ppb	5-Apr	

AIC Time:	32 hrs	Operational Time:	681 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	146.0	74.5	26.9	12.9	7.1	3.5	2.6	22.6 ppb	12.9 ppb



**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-06	16	A	33	27	36	23	80	64	27	29	26	36	12	13	10	16	18	18	25	27	33	32	21	31	28.4	79.6
2-Apr-06	A	21	20	22	17	31	29	29	16	21	14	22	22	14	15	13	14	15	18	25	11	20	21	A	19.5	30.9
3-Apr-06	11	19	21	36	34	51	65	97	68	38	25	20	10	7	6	5	7	25	36	43	145	167	A	78	44.2	167.4
4-Apr-06	46	12	14	38	35	132	74	135	45	25	14	12	6	4	5	6	23	18	36	39	57	A	33	34	36.7	135.4
5-Apr-06	23	16	26	30	150	90	90	151	149	157	70	40	15	11	11	10	12	10	13	24	A	27	15	9	50.0	157.3
6-Apr-06	12	9	8	7	10	19	21	24	30	29	17	15	12	7	10	10	16	14	26	A	25	22	20	23	16.9	30.5
7-Apr-06	24	25	28	61	42	92	178	154	66	47	19	16	11	5	5	6	7	16	20	39	36	45	18	16	40.7	177.9
8-Apr-06	7	7	17	9	14	A	26	34	29	18	12	7	7	7	6	7	10	13	11	45	68	80	118	107	28.7	117.7
9-Apr-06	32	16	8	6	A	7	14	9	8	7	6	5	6	6	8	6	5	5	7	7	12	4	4	8.4	32.0	
10-Apr-06	5	7	8	A	25	45	105	73	47	17	11	7	33	5	6	8	9	5	12	39	79	50	19	12	27.3	104.9
11-Apr-06	18	21	A	18	34	42	37	38	28	24	10	5	4	5	6	5	10	14	10	31	40	25	17	18	20.0	41.6
12-Apr-06	19	A	9	24	27	60	91	105	42	12	8	4	6	8	15	18	26	8	7	11	11	12	6	3	23.2	104.5
13-Apr-06	A	6	7	7	9	16	29	41	C	C	C	C	C	C	C	A	13	13	11	10	21	18	10	7	N	41.4
14-Apr-06	17	21	10	27	32	A	20	32	37	37	15	16	19	3	3	5	6	9	7	11	9	9	12	7	15.9	37.3
15-Apr-06	9	27	16	10	A	33	35	78	48	11	7	4	4	4	8	4	3	5	6	12	21	12	51	63	20.5	77.7
16-Apr-06	46	26	41	A	61	49	28	45	35	28	16	8	11	6	5	3	5	5	3	11	15	13	9	6	20.8	61.3
17-Apr-06	7	7	A	20	29	35	47	34	27	17	8	9	9	7	8	6	6	6	5	5	15	22	36	40	17.7	47.3
18-Apr-06	10	A	10	10	18	45	59	78	32	12	9	6	9	4	5	8	6	10	10	30	85	45	70	72	28.0	84.6
19-Apr-06	90	84	53	24	15	A	44	43	35	9	6	5	4	6	6	6	8	7	10	22	20	22	70	53	28.0	90.4
20-Apr-06	31	22	18	30	A	55	85	39	24	18	24	23	7	9	9	14	12	8	9	8	7	10	10	6	20.8	84.7
21-Apr-06	3	8	3	A	4	13	16	14	11	11	10	12	12	6	7	14	12	6	12	14	4	3	3	3	8.8	16.2
22-Apr-06	3	3	A	3	4	4	3	4	3	5	5	3	3	2	4	5	3	4	5	16	24	29	17	18	7.4	29.1
23-Apr-06	13	A	17	49	72	52	49	42	22	10	12	10	4	3	3	4	3	4	8	28	46	17	13	9	21.3	72.5
24-Apr-06	A	13	13	14	39	67	61	85	56	24	18	21	9	10	6	7	12	10	16	21	30	22	24	A	26.3	85.2
25-Apr-06	11	6	20	15	66	124	135	123	84	21	17	9	7	9	7	9	9	7	6	9	17	19	A	13	32.4	135.2
26-Apr-06	11	15	17	25	25	69	61	61	59	11	9	7	8	9	17	10	9	9	8	12	A	10	4	20.8	68.9	
27-Apr-06	5	7	11	12	14	21	33	34	8	6	7	6	6	5	8	7	8	10	9	11	A	42	25	9	13.3	42.2
28-Apr-06	9	20	27	12	19	46	56	51	29	12	12	16	12	10	6	8	11	5	7	A	14	18	31	5	18.9	55.7
29-Apr-06	5	8	9	1	2	5	7	7	6	5	5	4	5	3	5	3	6	10	A	8	10	10	8	7	5.9	10.3
30-Apr-06	5	6	7	5	20	24	15	6	5	6	3	4	4	4	2	3	4	A	6	8	27	30	16	13	9.6	29.7
Hourly Avg	18.1	16.6	17.6	20.0	31.6	46.3	53.1	57.7	37.1	23.0	14.4	12.2	9.6	6.7	7.4	7.8	9.9	10.1	12.4	20.0	31.9	29.8	25.3	24.0		
Hourly Max	90.4	84.2	53.2	60.7	150.2	132.0	177.9	153.6	149.4	157.3	70.3	39.5	33.2	14.2	17.5	17.9	26.0	25.4	36.5	44.9	145.2	167.4	117.7	107.2		



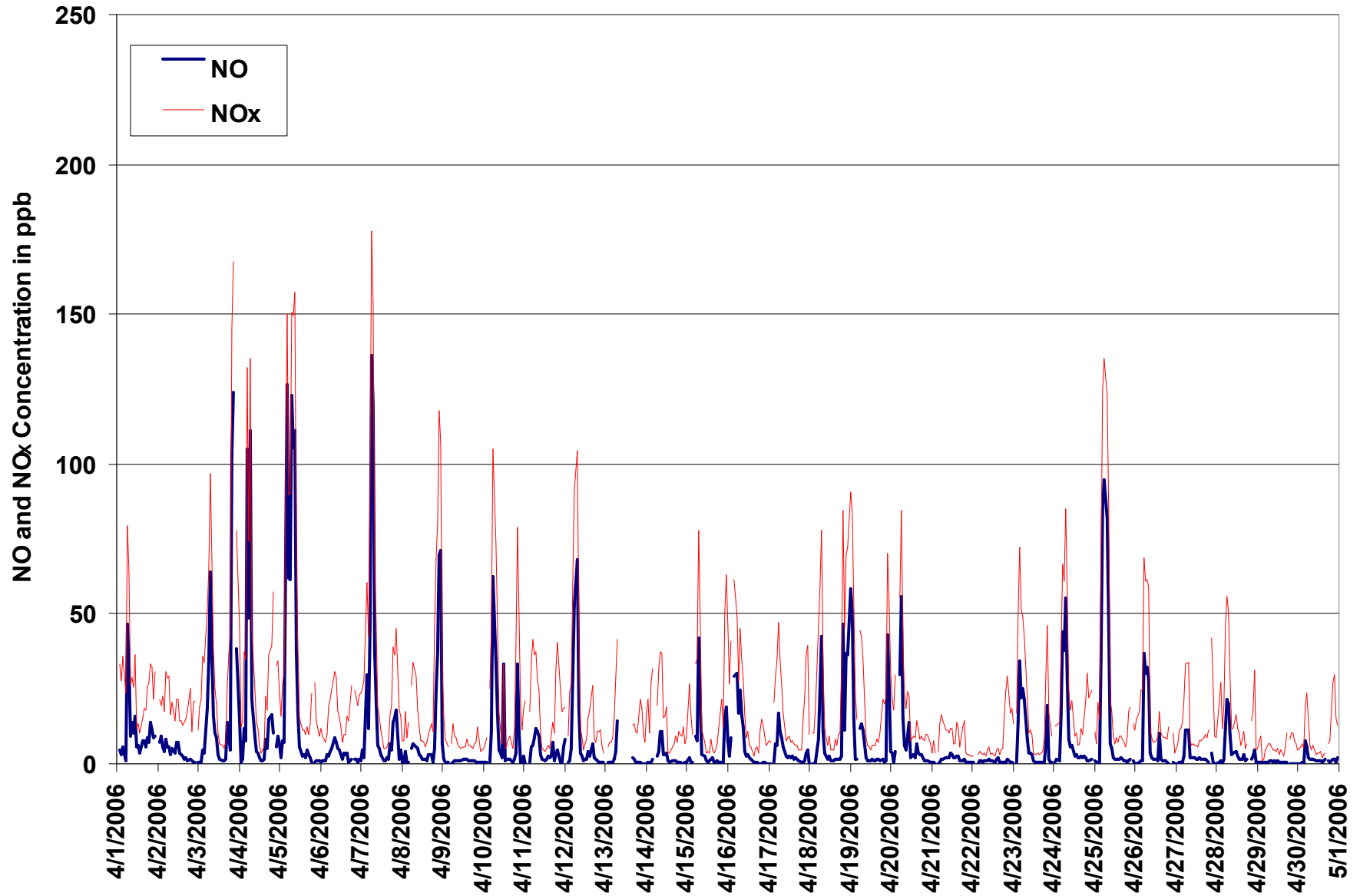


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

# PASZA - Henry Pirker - Ozone Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

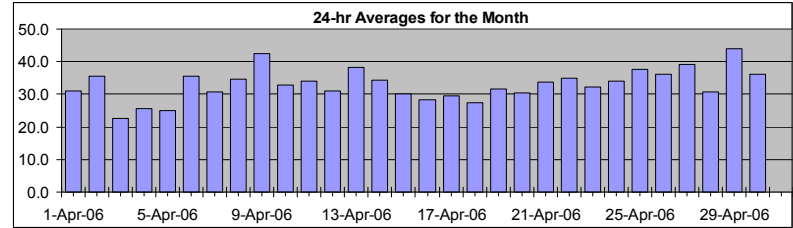
## Ozone (O<sub>3</sub>)

Monitoring Dates: April 1, 2006 to May 1, 2006

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

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	58.9 ppb	24-Apr	17:00 18:00
Maximum 24-hr Average:	44.1 ppb	29-Apr	

AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	56.3	52.1	44.0	35.6	24.7	4.0	0.4	33.0 ppb	35.6 ppb



### Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-06	34	A	14	17	8	15	8	13	30	35	36	37	43	44	44	43	42	40	37	32	32	35	36	36	30.9	44.3
2-Apr-06	A	38	39	37	30	25	25	21	32	32	36	35	39	42	42	47	46	45	41	39	36	35	20	A	35.5	46.8
3-Apr-06	28	20	15	8	9	6	1	4	18	18	26	32	41	44	46	48	48	46	37	20	3	0	A	3	22.6	48.1
4-Apr-06	9	15	13	7	13	0	0	5	17	30	34	40	43	47	48	48	47	47	44	33	25	A	20	3	25.5	48.4
5-Apr-06	10	13	11	4	0	1	0	1	4	9	22	26	35	40	46	51	51	51	47	39	A	34	38	42	25.1	51.3
6-Apr-06	39	40	40	38	34	27	22	20	23	28	32	37	41	44	47	49	48	46	36	A	32	31	33	29	35.4	49.3
7-Apr-06	26	20	9	9	7	1	0	2	12	24	32	39	48	52	53	55	55	52	49	40	37	34	40	42	30.7	54.8
8-Apr-06	44	42	40	39	31	A	26	25	26	34	39	41	45	50	53	53	53	54	50	28	16	8	1	1	34.7	54.1
9-Apr-06	10	23	28	40	A	52	45	46	52	54	54	52	51	50	48	45	44	44	44	43	40	37	38	38	42.4	53.8
10-Apr-06	39	35	32	A	26	11	2	8	27	37	43	46	46	48	49	48	49	48	45	28	6	24	27	30	32.9	49.3
11-Apr-06	26	20	A	27	13	10	9	15	22	30	38	45	49	49	50	51	50	49	47	37	28	40	42	35	34.0	50.8
12-Apr-06	36	A	31	19	16	4	1	4	21	32	40	41	45	41	36	36	31	39	41	39	36	36	41	45	31.0	45.0
13-Apr-06	A	43	38	37	36	32	25	21	34	39	41	41	41	42	43	44	41	41	43	45	38	36	41	40	38.3	45.4
14-Apr-06	34	30	34	24	21	A	28	22	26	26	31	33	44	47	47	46	44	41	40	40	35	32	29	36	34.3	47.1
15-Apr-06	29	24	25	28	A	17	8	7	22	33	40	45	46	44	44	43	42	42	41	38	29	28	17	3	30.2	45.5
16-Apr-06	12	10	3	A	0	1	5	8	18	24	32	42	42	43	46	48	47	46	46	42	34	34	34	34	28.3	48.0
17-Apr-06	33	31	A	19	11	8	11	20	23	35	40	41	41	42	42	41	41	41	40	40	32	25	10	16	29.7	41.7
18-Apr-06	28	A	29	28	21	11	7	10	26	C	C	A	46	47	49	49	49	46	41	28	5	18	9	1	27.5	49.5
19-Apr-06	0	2	11	25	30	A	19	16	26	43	46	48	50	51	52	49	46	44	39	31	30	29	25	15	31.7	51.8
20-Apr-06	17	18	24	19	A	3	3	16	25	34	37	41	43	46	46	45	42	41	41	39	35	28	27	31	30.5	45.5
21-Apr-06	34	33	37	A	39	33	30	32	32	34	34	34	34	37	38	34	35	36	34	31	33	32	31	29	33.7	38.7
22-Apr-06	30	30	A	29	28	28	29	30	38	39	39	42	44	45	45	46	46	45	44	37	23	17	25	23	34.9	46.4
23-Apr-06	21	A	18	16	0	4	6	14	25	30	35	38	43	46	48	50	53	54	52	42	30	36	37	39	32.1	54.1
24-Apr-06	A	16	16	14	3	2	4	8	23	31	35	43	49	51	55	58	59	59	57	48	39	39	40	A	34.1	58.9
25-Apr-06	46	48	35	39	10	0	2	8	15	35	38	50	57	57	59	56	54	55	55	51	37	32	A	30	37.7	58.9
26-Apr-06	24	19	24	14	11	7	8	11	25	39	52	52	52	53	54	54	54	52	50	49	44	A	43	40	36.2	54.4
27-Apr-06	37	35	29	28	24	25	18	32	44	46	47	48	48	50	52	53	53	51	49	44	A	16	31	39	39.2	53.2
28-Apr-06	35	24	25	31	27	18	15	17	32	38	41	40	39	43	45	44	39	35	32	A	23	18	22	26	30.8	44.6
29-Apr-06	27	26	28	37	41	41	45	45	50	51	52	51	51	52	53	54	54	51	A	49	45	41	35	34	44.1	53.9
30-Apr-06	34	31	28	30	28	17	26	33	37	39	43	44	45	47	48	49	49	A	50	45	30	25	26	29	36.2	49.9
Hourly Avg	27.5	26.3	25.2	24.5	19.2	14.8	14.3	17.1	26.8	33.8	38.5	41.5	44.7	46.5	47.6	47.9	47.1	46.2	43.9	38.4	29.6	28.7	29.3	27.4		
Hourly Max	46.2	47.9	40.3	40.3	41.0	51.8	44.7	46.1	51.7	53.8	53.7	52.2	56.5	57.3	58.9	58.2	58.6	58.9	57.1	50.8	44.8	41.5	43.5	44.9		

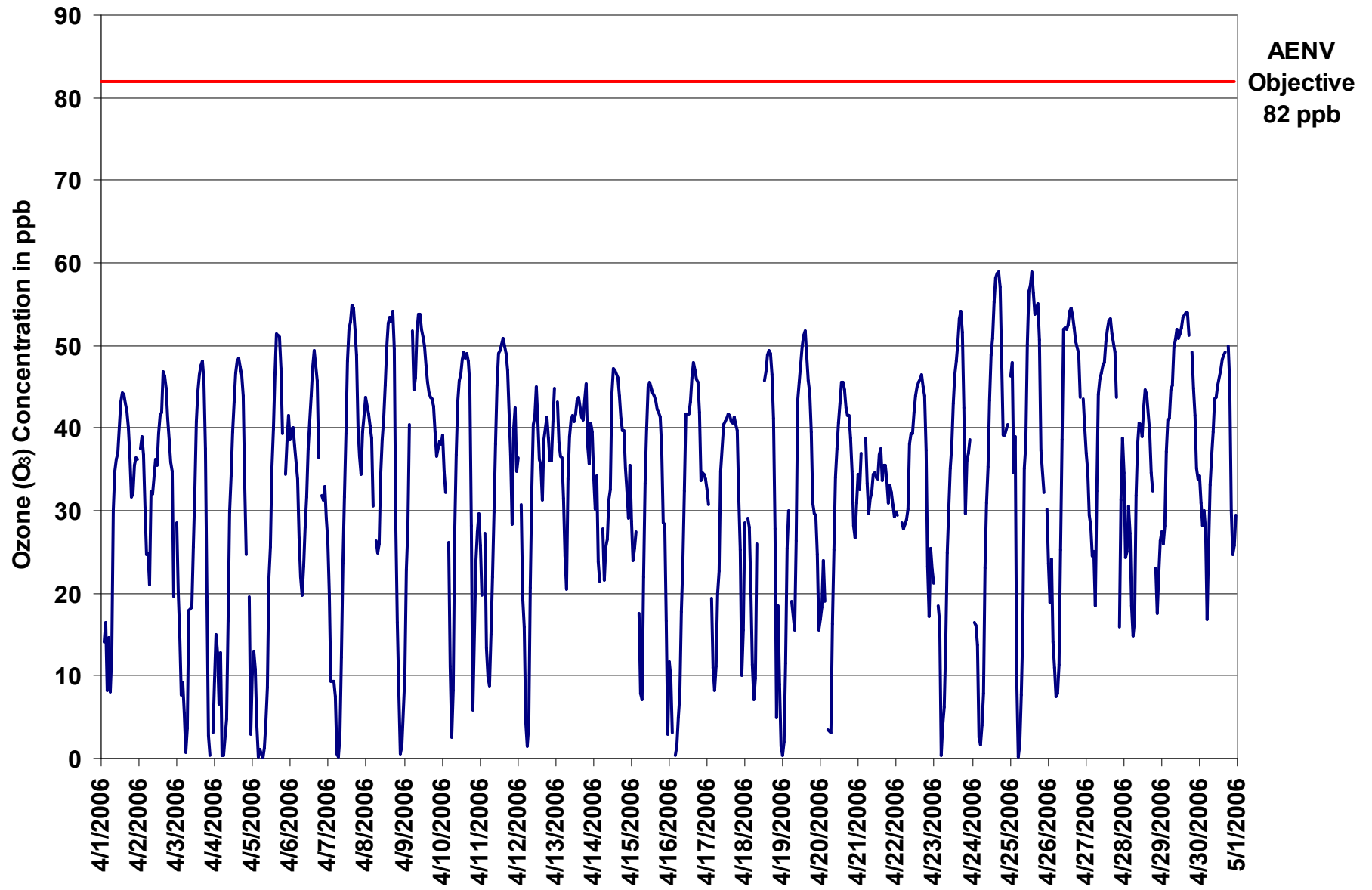


Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

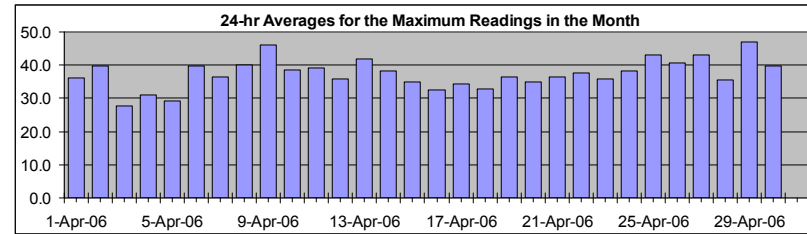
**Ozone (O<sub>3</sub>)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Value:	61.4	ppb	24-Apr	18:00 19:00
Maximum 24-hr Value:	47.0	ppb	29-Apr	

AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	58.6	55.1	47.3	39.6	30.1	11.6	2.7	37.4 ppb	39.6 ppb



**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start	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-Apr-06	37	A	28	29	16	20	18	27	35	38	40	41	46	46	47	45	44	43	39	34	35	41	41	39		36.0	46.7	
2-Apr-06	A	40	41	40	33	28	31	32	37	37	38	37	42	43	45	51	51	50	47	42	39	39	31	A		39.7	51.1	
3-Apr-06	32	26	19	15	13	11	3	7	24	25	30	40	43	48	49	50	51	48	46	32	15	1	A	12		27.8	50.5	
4-Apr-06	18	19	17	13	23	4	3	12	22	36	36	43	46	48	49	49	50	48	42	36	A	36	13			31.0	50.1	
5-Apr-06	20	21	15	12	2	7	1	3	8	12	30	31	39	45	51	54	53	53	51	44	A	38	41	43		29.3	54.2	
6-Apr-06	42	41	42	40	36	31	25	25	28	33	34	40	44	46	51	51	51	50	48	A	42	39	37	37		39.7	51.4	
7-Apr-06	37	37	18	17	20	3	1	8	25	32	35	46	52	53	54	56	56	55	53	47	41	37	43	45		36.3	56.3	
8-Apr-06	45	43	42	40	37	A	30	32	32	39	40	45	48	52	54	55	55	56	55	50	32	27	3	9		40.1	55.8	
9-Apr-06	18	32	34	48	A	56	49	50	56	56	56	53	52	53	50	48	46	45	46	45	42	42	42	40		46.1	56.1	
10-Apr-06	42	37	35	A	33	19	10	14	33	42	47	47	49	50	51	51	51	50	50	44	26	36	34	34		38.5	51.3	
11-Apr-06	30	23	A	33	22	17	13	19	27	35	44	48	51	51	51	52	52	51	51	50	39	51	49	41		39.2	51.7	
12-Apr-06	41	A	34	26	22	13	3	14	28	37	45	44	47	47	44	44	36	43	44	43	38	39	43	47		35.7	47.0	
13-Apr-06	A	45	40	39	39	36	30	30	38	43	43	43	43	45	46	46	44	46	48	48	44	41	43	42		41.9	48.4	
14-Apr-06	39	35	36	32	27	A	32	28	29	34	33	36	48	49	49	47	46	45	43	43	39	35	35	38		38.1	48.8	
15-Apr-06	33	32	30	30	A	25	14	18	32	37	44	48	48	45	46	45	45	45	43	42	33	33	28	10		35.0	48.1	
16-Apr-06	21	16	15	A	3	8	8	13	25	27	38	46	44	45	48	49	49	48	47	46	39	38	38	37		32.5	49.4	
17-Apr-06	34	33	A	25	24	14	19	28	28	43	42	43	43	44	43	42	42	43	42	42	37	31	22	26		34.4	43.8	
18-Apr-06	32	A	31	29	26	20	11	20	31	C	C	A	48	48	50	51	52	49	46	36	21	25	19	11		32.9	51.6	
19-Apr-06	1	9	20	31	32	A	26	21	40	47	48	50	51	53	53	52	48	47	43	37	34	36	35	23		36.3	53.1	
20-Apr-06	21	23	30	29	A	14	13	22	33	37	41	42	45	47	49	47	46	43	43	42	38	30	29	35		34.9	48.7	
21-Apr-06	36	36	41	A	39	39	35	35	35	38	36	36	36	39	40	37	39	37	37	35	36	34	32	30		36.4	40.8	
22-Apr-06	31	30	A	30	30	30	30	39	41	41	41	44	45	47	47	47	48	47	46	43	30	24	29	28		37.7	47.5	
23-Apr-06	27	A	23	23	3	12	11	21	30	33	38	42	45	48	50	52	55	56	54	48	37	40	39	40		36.0	56.3	
24-Apr-06	A	19	20	16	10	5	9	13	30	35	39	50	51	54	57	60	61	61	61	61	56	44	42	50	A		38.3	61.4
25-Apr-06	47	50	48	43	29	1	4	11	26	41	47	56	58	59	61	61	57	57	57	55	49	40	A	32		43.0	61.0	
26-Apr-06	30	25	28	23	14	15	18	14	32	50	54	54	54	57	57	57	56	57	57	53	52	49	A	45	42		40.7	57.0
27-Apr-06	39	39	32	31	27	31	24	44	46	47	49	49	50	52	54	56	57	55	52	48	A	26	38	41		43.0	57.2	
28-Apr-06	38	35	33	33	30	27	25	26	37	41	43	43	41	45	47	46	44	36	35	A	31	24	28	29		35.6	46.8	
29-Apr-06	31	29	34	41	42	47	48	50	52	52	53	52	54	54	55	55	55	55	A	54	48	44	40	35		47.0	55.4	
30-Apr-06	36	34	30	32	31	21	31	36	38	43	45	46	47	49	50	50	50	A	51	51	41	37	34	33		39.8	51.2	
Hourly Avg	31.8	31.1	30.3	29.6	24.6	20.5	19.2	23.7	32.6	38.2	41.7	44.7	47.1	48.7	49.9	50.3	49.7	49.1	47.6	44.7	37.0	34.7	35.1	32.0				
Hourly Max	47.3	49.6	48.4	47.5	42.2	56.0	49.5	50.1	55.9	55.7	56.1	55.5	58.5	59.4	61.0	60.6	61.0	60.6	61.4	56.1	49.4	51.5	50.0	47.0				

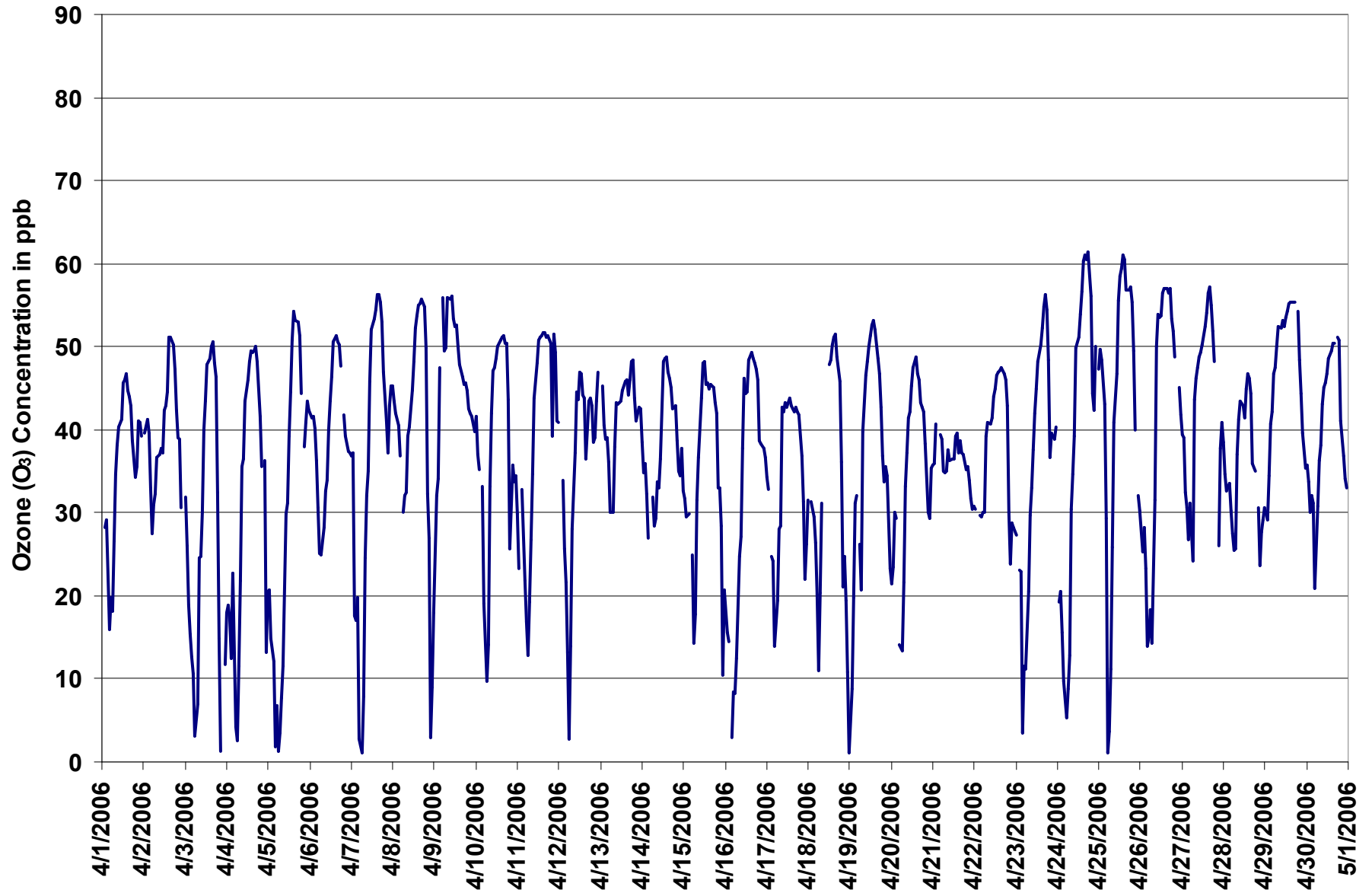
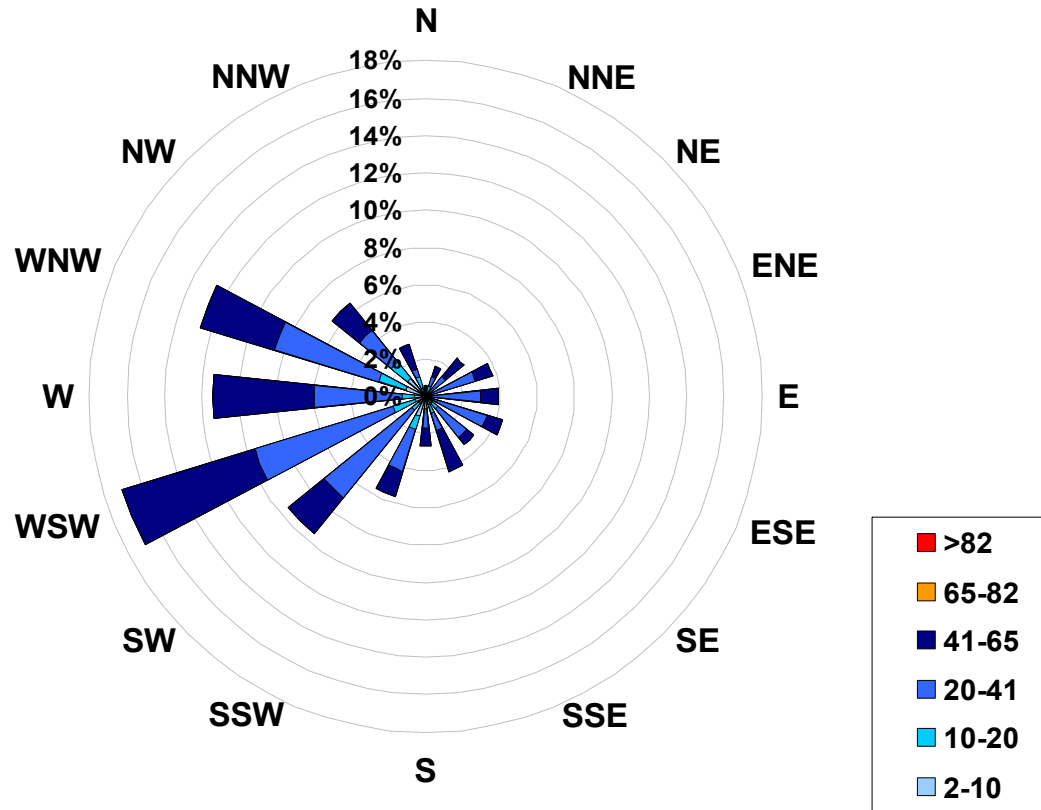


Figure 8. PASZA - Henry Pirker Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Ozone (in ppb) Located at the Henry Pirker Site for April 2006**



**Calms: 0%**

Frequency Distribution of O <sub>3</sub> in ppb Range			Frequency (hrs)
2.0	<	10	72
10	to	20	67
20	to	41	311
41	to	65	236
65	to	82	0
	>	82	0
Total Non-Zero Values			686

# PASZA - Henry Pirker - Ozone Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

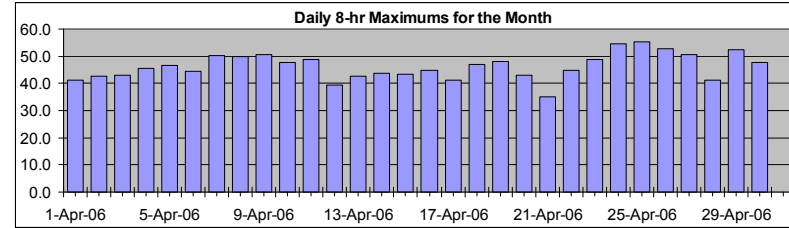
## EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O<sub>3</sub>)

Monitoring Dates: April 1, 2006 to May 1, 2006

Objective Limit: Alberta Environment: 8-hr 65 ppb

Number of 8-hr Exceedances:	0		
Maximum 8-hr Average:	55.4 ppb	25-Apr	19:00 20:00



Percentile	99	95	75	50	25	5	1
	52.8	49.8	41.4	34.5	25.6	11.8	6.5

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

Day	Mountain Standard Time																							Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Apr-06	37	36	32	29	24	22	18	15	15	17	20	23	27	31	35	39	41	41	41	39	38	37	36		41.3	
2-Apr-06	35	35	35	36	36	34	33	31	31	30	30	30	31	33	35	38	40	42	42	43	42	41	38	37		42.5
3-Apr-06	35	31	27	23	19	15	12	11	10	10	11	14	18	23	29	34	38	41	43	41	37	31	29	22		42.9
4-Apr-06	17	13	9	7	9	9	8	8	9	11	13	17	21	27	33	38	42	44	45	45	42	42	38	31		45.5
5-Apr-06	26	21	16	12	9	8	5	5	4	4	5	8	12	17	23	29	35	40	43	45	47	46	45	43		46.6
6-Apr-06	42	40	39	39	38	37	35	32	30	29	28	28	29	31	34	38	41	43	44	44	43	41	39	36		44.4
7-Apr-06	33	30	26	24	21	17	13	9	8	8	11	15	20	26	33	39	45	48	50	50	49	47	45	43		50.4
8-Apr-06	42	41	40	40	39	39	38	35	33	32	31	32	34	36	39	43	46	48	50	48	45	39	33	26		49.8
9-Apr-06	21	17	14	16	16	22	28	35	41	45	49	51	51	50	51	50	48	47	46	45	43	42	41		50.7	
10-Apr-06	40	39	38	37	35	31	26	22	20	21	22	25	28	32	38	43	46	47	48	45	40	37	35	32		47.6
11-Apr-06	29	26	23	23	24	22	19	17	17	18	20	23	27	32	37	42	45	48	49	48	45	44	43	41		48.8
12-Apr-06	39	38	36	33	31	26	20	16	14	16	17	20	24	28	33	37	38	39	39	38	37	37	37	38		39.3
13-Apr-06	39	40	40	39	39	39	36	33	33	33	33	34	34	35	38	41	42	42	42	43	42	41	41	41		42.6
14-Apr-06	40	38	37	35	32	32	30	28	26	26	25	27	30	32	34	38	40	42	43	44	42	41	38	37		43.6
15-Apr-06	35	33	31	30	29	27	24	20	19	20	22	25	27	31	35	40	42	43	43	43	40	38	35	30		43.5
16-Apr-06	26	22	17	14	10	7	5	6	6	8	13	16	21	27	32	37	40	43	45	45	44	43	41	40		44.9
17-Apr-06	38	36	34	31	28	24	21	19	18	18	21	24	27	32	35	38	40	41	41	41	40	38	34	31		41.1
18-Apr-06	29	27	26	24	22	20	20	19	19	19	N	N	N	N	N	N	N	N	47	44	39	36	31	25		46.8
19-Apr-06	19	13	9	9	12	11	13	15	19	24	29	33	35	37	41	46	48	48	47	45	43	40	37	32		48.1
20-Apr-06	29	26	24	22	21	17	14	14	16	18	20	23	25	31	36	40	42	43	43	43	42	40	37	36		43.1
21-Apr-06	35	33	33	32	33	33	34	34	34	34	33	34	33	33	34	35	35	35	35	35	35	34	33	33		35.2
22-Apr-06	32	31	31	30	30	29	29	29	30	32	33	34	36	38	40	42	43	44	45	44	42	38	36	33		44.7
23-Apr-06	30	27	24	21	17	16	13	11	12	14	16	19	24	30	35	39	43	46	48	49	47	46	44	43		48.6
24-Apr-06	41	36	31	27	23	18	13	9	11	12	15	19	24	31	37	43	48	51	54	55	53	52	50	49		54.5
25-Apr-06	47	45	42	41	37	31	26	23	19	18	18	20	26	33	40	46	51	53	55	55	53	50	49	45		55.4
26-Apr-06	40	35	31	26	22	18	17	15	15	17	21	26	31	36	42	48	51	53	53	52	51	51	50	47		52.9
27-Apr-06	45	43	40	37	34	33	30	29	30	31	33	36	39	42	46	48	50	50	51	50	50	45	43	40		50.6
28-Apr-06	38	34	31	29	28	29	27	24	24	25	27	28	30	33	37	40	41	41	40	39	37	34	30	28		41.1
29-Apr-06	26	25	24	26	28	31	34	36	39	42	45	47	48	50	51	52	52	52	52	52	51	50	47	44		52.4
30-Apr-06	41	39	37	35	33	30	28	28	29	30	32	33	35	39	42	44	46	47	47	48	46	42	39	36		47.7
Hourly Max	47.0	45.4	42.2	40.9	39.4	39.5	37.6	36.3	40.8	45.2	48.9	50.5	50.6	50.3	50.7	51.7	52.3	53.2	55.3	55.4	53.3	51.8	50.0	48.8		

# PASZA - Henry Pirker - Carbon Monoxide Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

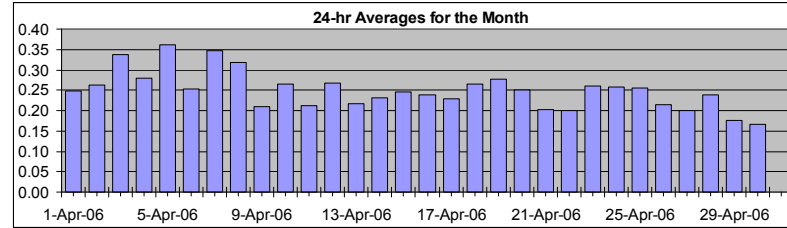
## Carbon Monoxide (CO)

Monitoring Dates: April 1, 2006 to May 1, 2006

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

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	1.1 ppm	3-Apr	21:00 22:00
Maximum 24-hr Value:	0.4 ppm	5-Apr	

AIC Time:	32 hrs	Operational Time:	685 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.8	0.5	0.3	0.2	0.2	0.2	0.1	0.2 ppm	0.2 ppm



### Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum			
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00				
1-Apr-06	0.2	0.3	A	0.3	0.3	0.2	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.25	0.41
2-Apr-06	0.2	A	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3		0.26	0.31	
3-Apr-06	A	0.3	0.2	0.2	0.2	0.3	0.4	0.7	0.3	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.5	0.9	1.1	0.6	A		0.34	1.08		
4-Apr-06	0.3	0.2	0.2	0.2	0.2	0.5	0.5	0.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	A	0.3		0.28	0.68		
5-Apr-06	0.2	0.2	0.2	0.3	0.3	0.4	0.6	1.1	0.7	0.8	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	A	0.3	0.2		0.36	1.06		
6-Apr-06	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	A	0.2	0.2	0.2		0.25	0.40	
7-Apr-06	0.2	0.3	0.3	0.3	0.3	0.5	0.9	0.8	0.5	0.5	C	C	C	A	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2		0.35	0.94		
8-Apr-06	0.2	0.2	0.2	0.2	0.2	A	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5	0.7	0.9	0.7		0.32	0.88		
9-Apr-06	0.3	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		0.21	0.33		
10-Apr-06	0.2	0.2	0.2	A	0.2	0.3	0.6	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.6	0.3	0.2	0.2		0.27	0.60	
11-Apr-06	0.2	0.2	A	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.2	0.2		0.21	0.37	
12-Apr-06	0.2	A	0.2	0.2	0.2	0.4	0.5	0.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2		0.27	0.67	
13-Apr-06	A	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2		0.22	0.33	
14-Apr-06	0.3	0.3	0.2	0.3	0.3	A	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2		0.23	0.30	
15-Apr-06	0.2	0.2	0.2	0.2	A	0.2	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.4	0.5		0.25	0.51	
16-Apr-06	0.4	0.3	0.4	A	0.4	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2		0.24	0.40	
17-Apr-06	0.2	0.2	A	0.3	0.4	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3		0.23	0.40		
18-Apr-06	0.2	A	0.2	0.2	0.2	0.3	0.4	0.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.3	0.3	0.6		0.27	0.67	
19-Apr-06	0.7	0.7	0.3	0.2	0.2	A	0.4	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3		0.28	0.69	
20-Apr-06	0.3	0.2	0.2	0.2	A	0.4	0.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		0.25	0.74	
21-Apr-06	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		0.20	0.22	
22-Apr-06	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.2		0.20	0.36	
23-Apr-06	0.2	A	0.2	0.3	0.5	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2		0.26	0.54	
24-Apr-06	A	0.2	0.2	0.2	0.3	0.4	0.4	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	A		0.26	0.49	
25-Apr-06	0.2	0.2	0.2	0.2	0.3	0.5	0.7	0.7	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2		0.26	0.75	
26-Apr-06	0.2	0.2	0.2	0.3	0.2	0.3	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2		0.22	0.39	
27-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.4	0.3	0.2		0.20	0.37	
28-Apr-06	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2		0.24	0.46	
29-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2		0.18	0.20	
30-Apr-06	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2		0.17	0.24	
Hourly Avg	0.24	0.23	0.21	0.22	0.25	0.31	0.39	0.42	0.27	0.24	0.21	0.20	0.19	0.19	0.19	0.19	0.20	0.20	0.21	0.25	0.31	0.30	0.28	0.25					
Hourly Max	0.69	0.66	0.36	0.31	0.54	0.53	0.94	1.06	0.69	0.81	0.39	0.30	0.30	0.30	0.29	0.26	0.29	0.28	0.29	0.46	0.90	1.08	0.88	0.68					



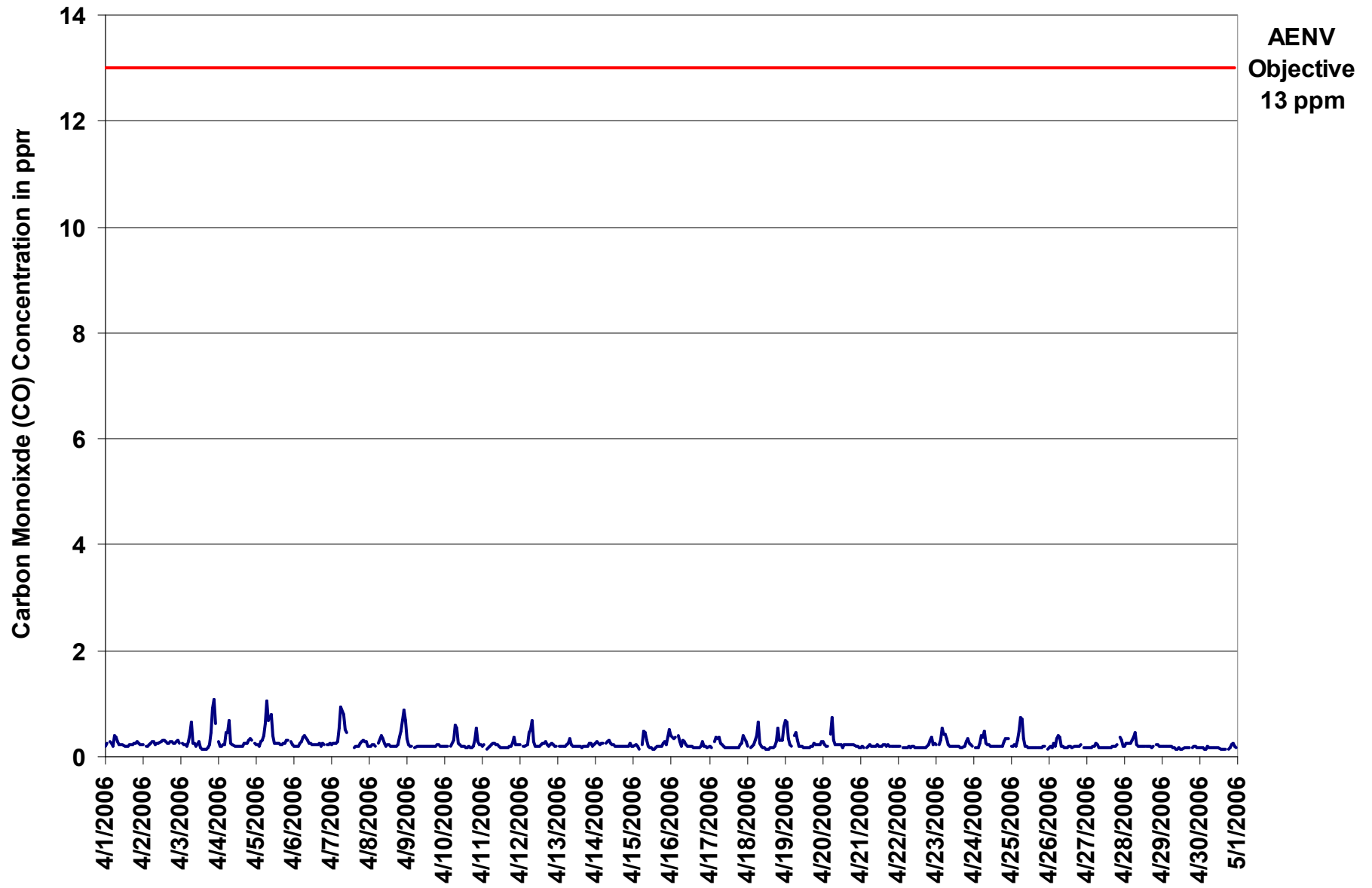


Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

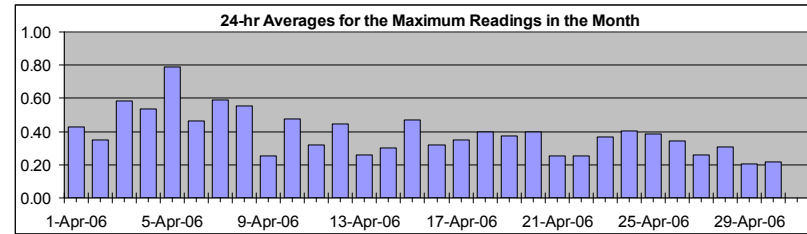
**Carbon Monoxide (CO)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Value:	3.6	ppm	5-Apr	7:00 8:00
Maximum 24-hr Value:	0.8	ppm	5-Apr	

AIC Time:	32 hrs	Operational Time:	685 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.9	1.1	0.4	0.3	0.2	0.2	0.2	0.4 ppm	0.3 ppm



**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Apr-06	0.3	0.7	A	0.4	0.4	0.3	1.5	0.6	0.7	0.4	0.3	0.4	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.43	1.49	
2-Apr-06	0.3	A	0.3	0.3	0.4	0.4	0.5	0.5	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.5	0.4	0.3	0.35	0.54	
3-Apr-06	A	0.3	0.2	0.3	0.3	0.4	0.8	1.1	0.5	0.3	0.3	1.5	0.2	0.2	0.2	0.2	0.7	0.4	0.6	1.6	1.6	0.9	A	0.58	1.62		
4-Apr-06	0.5	0.2	0.2	0.3	1.7	1.6	1.3	1.4	0.5	0.3	0.3	0.4	0.2	0.3	0.2	0.5	0.5	0.3	0.4	0.5	0.4	A	A	0.3	0.54	1.70	
5-Apr-06	0.3	0.4	0.3	1.5	0.8	1.1	2.5	3.6	1.2	1.3	0.7	0.3	0.4	0.3	0.3	0.3	0.4	0.5	0.6	0.5	0.4	A	A	0.3	0.79	3.56	
6-Apr-06	0.3	0.3	0.3	0.3	0.9	0.6	0.7	0.7	0.4	0.3	0.3	0.2	0.2	0.2	0.9	0.8	1.1	0.3	0.3	0.3	A	0.3	0.3	0.3	0.46	1.11	
7-Apr-06	0.3	0.4	0.3	0.4	0.4	1.8	1.9	2.0	0.6	0.6	C	C	C	A	0.2	0.2	0.2	0.3	0.4	0.3	0.4	0.5	0.4	0.3	0.59	1.97	
8-Apr-06	0.3	0.3	0.4	0.3	0.2	A	0.4	2.0	0.5	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.5	1.2	1.1	1.3	1.8	0.55	2.04
9-Apr-06	0.6	0.4	0.3	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.25	0.60	
10-Apr-06	0.3	0.2	0.2	A	0.3	0.7	2.6	1.0	0.4	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.7	1.2	0.6	0.3	0.3	0.48	2.58	
11-Apr-06	0.3	0.3	A	0.2	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.4	0.8	0.4	0.3	0.3	0.32	0.75	
12-Apr-06	0.3	A	0.2	0.2	0.3	1.9	1.4	1.2	0.4	0.3	0.2	0.2	0.2	0.3	0.6	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.44	1.89	
13-Apr-06	A	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.4	0.2	0.3	0.26	0.40	
14-Apr-06	0.3	0.4	0.3	0.3	0.3	A	0.3	0.4	0.5	0.3	0.3	0.5	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.2	0.30	0.50	
15-Apr-06	0.3	0.4	0.3	0.2	A	1.8	2.2	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.4	0.8	0.6	0.47	2.17	
16-Apr-06	0.5	0.4	0.5	A	0.7	0.6	0.3	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.32	0.69	
17-Apr-06	0.3	0.2	A	0.6	0.8	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.6	0.9	0.5	0.35	0.86	
18-Apr-06	0.2	A	0.2	0.2	0.3	0.5	0.6	0.8	0.5	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.3	0.4	1.3	0.6	0.6	0.9	0.40	1.25	
19-Apr-06	0.9	1.4	0.5	0.3	0.3	A	0.6	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.37	1.44	
20-Apr-06	0.4	0.3	0.2	0.2	A	1.6	1.4	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.40	1.62	
21-Apr-06	0.2	0.3	0.2	A	0.2	0.2	0.4	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.25	0.36	
22-Apr-06	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.4	0.5	0.3	0.3	0.25	0.49	
23-Apr-06	0.3	A	0.3	0.7	1.1	0.7	0.6	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.5	0.4	0.3	0.3	0.37	1.10	
24-Apr-06	A	0.2	0.3	0.2	0.8	1.1	0.7	0.6	0.4	0.2	0.2	0.2	0.2	0.6	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.4	A	0.4	0.40	1.06	
25-Apr-06	0.3	0.3	0.4	0.2	1.0	0.8	1.3	1.1	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	A	A	0.2	0.39	1.30
26-Apr-06	0.3	0.2	0.2	0.8	0.3	0.8	0.8	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.5	0.3	0.3	0.3	0.2	0.3	0.3	A	0.2	0.2	0.34	0.85	
27-Apr-06	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	A	0.6	0.5	0.2	0.26	0.60	
28-Apr-06	0.3	0.4	0.4	0.3	0.3	0.5	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	A	0.3	0.4	0.3	0.2	0.31	0.60	
29-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.28	
30-Apr-06	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.3	0.4	0.7	0.3	0.3	0.22	0.67	
Hourly Avg	0.32	0.35	0.27	0.35	0.49	0.73	0.85	0.77	0.39	0.30	0.26	0.30	0.24	0.24	0.27	0.26	0.28	0.28	0.29	0.34	0.49	0.46	0.41	0.35			
Hourly Max	0.85	1.44	0.50	1.55	1.70	1.89	2.58	3.56	1.15	1.25	0.70	1.54	0.40	0.55	0.92	0.83	1.11	0.67	0.58	0.65	1.55	1.62	1.30	1.78			

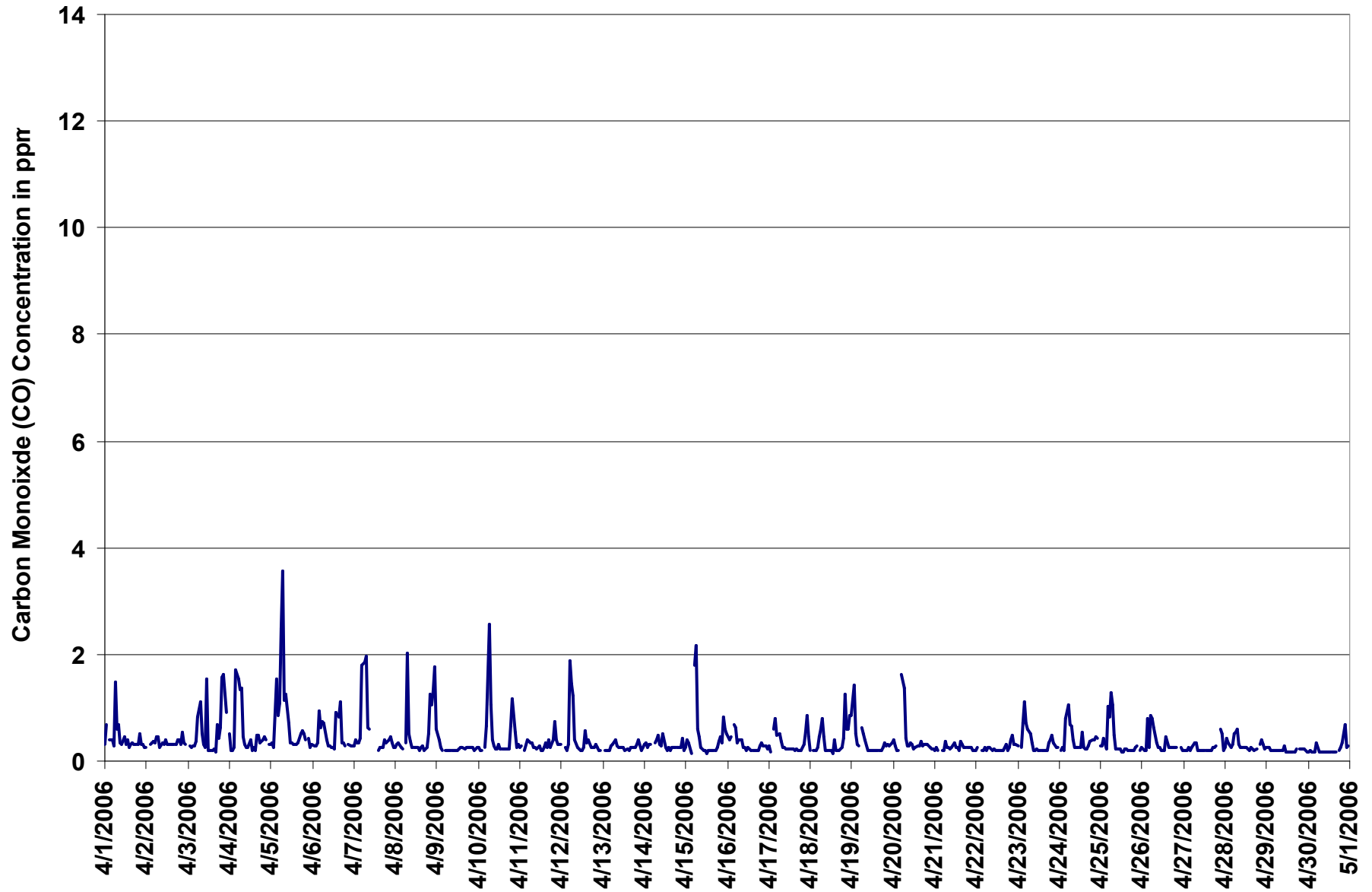
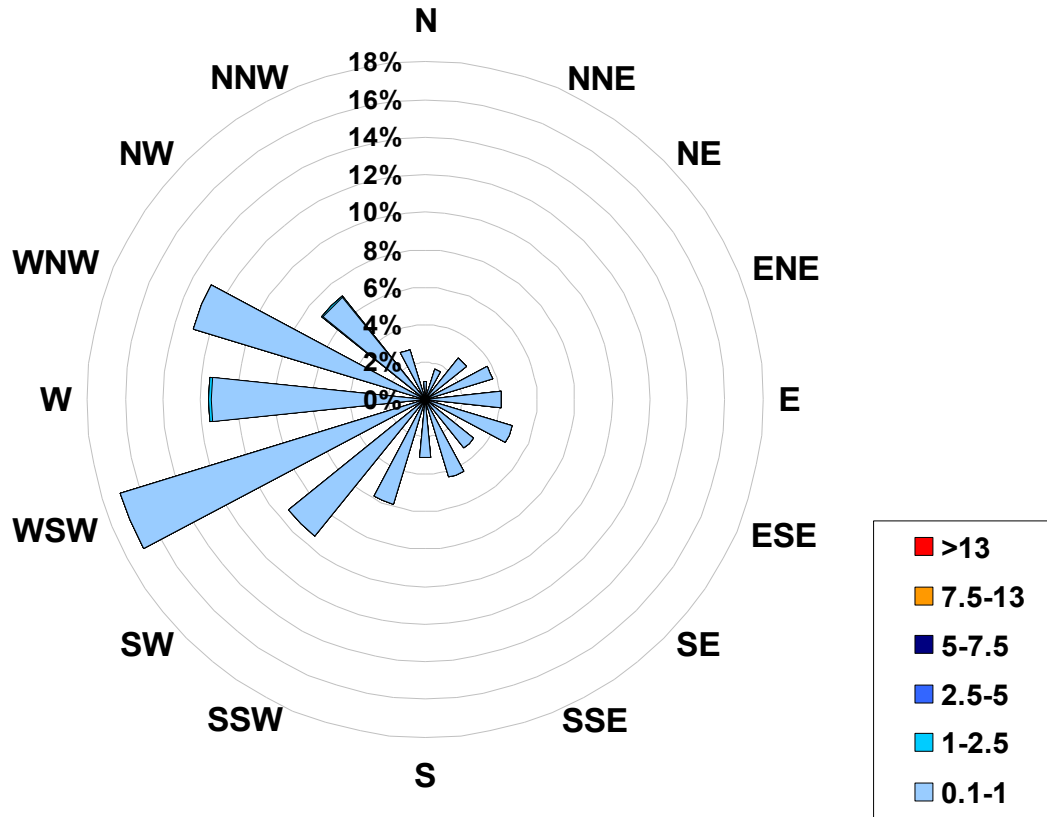


Figure 10. PASZA - Henry Pirker Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Carbon Monoxide (in ppm) Located  
at the Henry Pirker Site for April 2006**



**Calms: 0%**

Frequency Distribution of CO in ppm			Frequency (hrs)
Range			
0.1	<	1	683
1	to	2.5	2
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
	>	13	0
Total Non-Zero Values			685

# PASZA - Henry Pirker - Carbon Monoxide Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

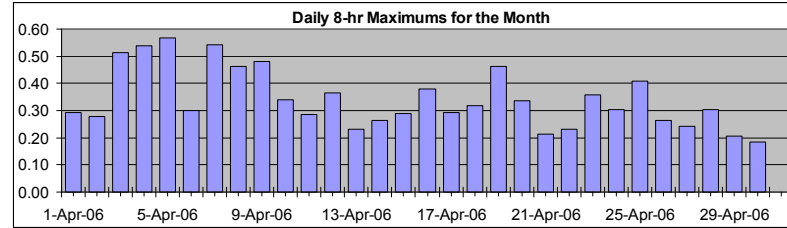
## EIGHT HOUR RUNNING AVERAGE TABLE

## Carbon Monoxide (CO)

Monitoring Dates: April 1, 2006 to May 1, 2006

Objective Limit: Alberta Environment: 8-hr 5 ppm

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	0.6	ppm	5-Apr	10:00	11:00		



Percentile	99	95	75	50	25	5	1
	0.5	0.4	0.3	0.2	0.2	0.2	0.2

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	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-Apr-06	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.29
2-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.28
3-Apr-06	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.5	0.51	
4-Apr-06	0.5	0.5	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.54
5-Apr-06	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.57
6-Apr-06	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.30
7-Apr-06	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.5	N	N	N	N	N	N	N	N	N	0.2	0.2	0.3	0.3	0.54	
8-Apr-06	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.46
9-Apr-06	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.48
10-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.34
11-Apr-06	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.29
12-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.36
13-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
14-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26
15-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.29
16-Apr-06	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.38
17-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.29
18-Apr-06	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.32
19-Apr-06	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.46
20-Apr-06	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.34
21-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
22-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
23-Apr-06	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.36
24-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.30
25-Apr-06	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.41
26-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26
27-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
28-Apr-06	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.30
29-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
30-Apr-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19
Hourly Max	0.53	0.54	0.54	0.50	0.46	0.43	0.44	0.45	0.48	0.55	0.57	0.57	0.56	0.54	0.50	0.39	0.34	0.28	0.28	0.28	0.29	0.41	0.47	0.51		

# PASZA - Henry Pirker - Total Hydrocarbons Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

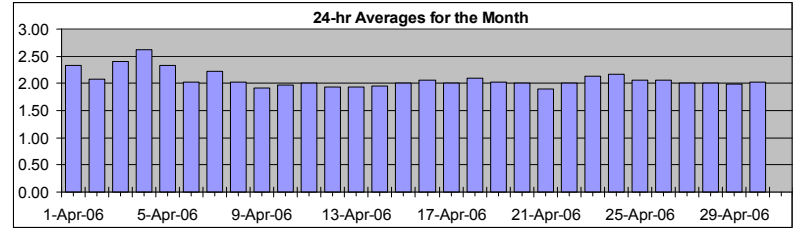
## Total Hydrocarbons (THC)

Monitoring Dates: April 1, 2006 to May 1, 2006

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

Maximum 1-hr Average:	6.4	ppm	4-Apr	5:00 6:00
Maximum 24-hr Value:	2.6	ppm	4-Apr	

AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.6	2.5	2.1	2.0	1.9	1.9	1.8	2.1 ppm	2.0 ppm



### Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00			
1-Apr-06	2.0	A	3.2	3.6	3.9	3.3	3.4	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.33	3.87
2-Apr-06	A	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.0	2.0	2.0	2.0	2.1	A	2.07	2.15	
3-Apr-06	2.0	2.4	2.2	2.1	2.1	2.1	2.3	2.5	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	4.5	4.9	A	4.4	2.41	4.94	
4-Apr-06	2.8	2.9	3.0	3.6	3.1	6.4	3.4	4.4	2.6	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	A	2.2	2.2	2.62	6.38	
5-Apr-06	2.2	2.6	2.5	2.5	2.8	2.7	2.8	3.0	2.8	2.8	2.3	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.1	2.0	2.32	2.96	
6-Apr-06	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	A	2.0	2.0	2.0	2.1	2.02	2.17		
7-Apr-06	2.1	2.4	2.5	2.6	2.4	2.7	2.8	2.6	2.5	2.5	2.1	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.22	2.85	
8-Apr-06	1.9	1.9	1.9	2.0	2.0	A	2.0	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.4	2.5	2.4	2.03	2.51	
9-Apr-06	2.3	2.0	1.9	1.9	A	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.92	2.28	
10-Apr-06	1.9	1.9	1.9	A	2.0	2.1	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.96	2.17	
11-Apr-06	2.0	2.1	A	2.0	2.1	2.2	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.01	2.17	
12-Apr-06	2.0	A	1.9	2.0	2.1	2.1	2.2	2.2	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.9	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.94	2.22	
13-Apr-06	A	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.93	2.04	
14-Apr-06	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.95	2.04	
15-Apr-06	2.0	2.0	2.0	2.0	A	2.1	2.2	2.2	2.1	2.0	2.0	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.2	2.01	2.20	
16-Apr-06	2.2	2.2	2.3	A	2.5	2.2	2.2	2.3	2.3	2.2	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.07	2.47	
17-Apr-06	2.0	2.0	A	2.2	2.2	2.2	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.2	2.2	2.01	2.24		
18-Apr-06	2.1	A	2.2	2.3	2.3	2.2	2.2	2.3	2.2	2.0	1.9	C	C	A	1.9	1.9	1.9	2.0	1.9	2.0	2.1	2.0	2.1	2.4	2.10	2.42		
19-Apr-06	2.7	2.6	2.3	2.2	2.1	A	2.1	2.1	2.1	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	2.0	2.02	2.66		
20-Apr-06	2.1	2.1	2.0	2.0	A	2.3	2.4	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.01	2.41	
21-Apr-06	2.0	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.89	1.95	
22-Apr-06	1.9	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.01	2.15	
23-Apr-06	2.1	A	2.1	2.3	2.5	2.4	2.5	2.5	2.3	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.13	2.53	
24-Apr-06	A	2.2	2.2	2.4	2.5	2.4	2.6	2.7	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	A	2.17	2.72		
25-Apr-06	2.0	2.0	2.1	2.0	2.3	2.5	2.5	2.6	2.3	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	A	2.0	2.06	2.57		
26-Apr-06	2.0	2.1	2.1	2.3	2.4	2.6	2.3	2.2	2.2	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	2.06	2.63	
27-Apr-06	1.9	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	A	2.1	2.2	2.0	2.00	2.18	
28-Apr-06	2.0	2.2	2.1	2.1	2.1	2.2	2.2	2.3	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	2.01	2.28	
29-Apr-06	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	A	1.9	2.0	2.0	2.0	2.0	1.99	2.06		
30-Apr-06	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	1.9	2.0	2.1	2.1	2.0	2.03	2.09	
Hourly Avg	2.08	2.13	2.16	2.22	2.28	2.40	2.30	2.31	2.14	2.06	2.00	1.97	1.96	1.95	1.94	1.93	1.93	1.93	1.93	1.93	1.95	2.08	2.12	2.04	2.13			
Hourly Max	2.79	2.90	3.17	3.61	3.87	6.38	3.42	4.41	2.81	2.79	2.32	2.20	2.13	2.12	2.13	2.08	2.06	2.15	2.04	2.08	4.55	4.94	2.51	4.41				

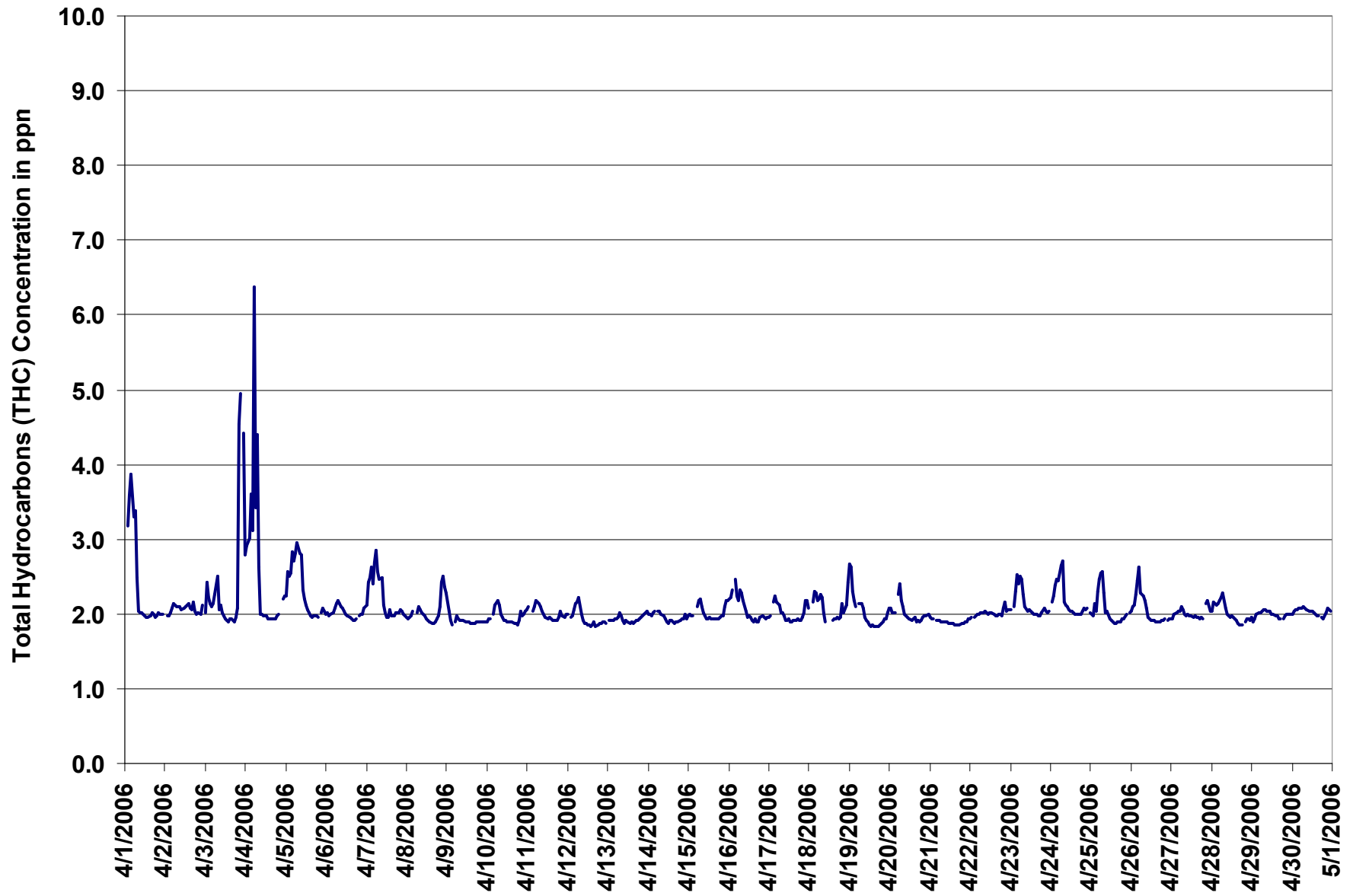


Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

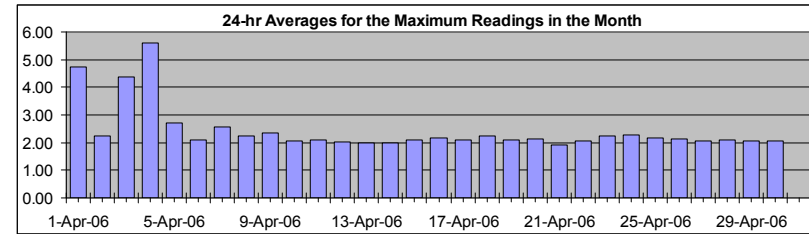
**Total Hydrocarbons (THC)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Value:	25.0	ppm	4-Apr	5:00 6:00
Maximum 24-hr Value:	5.6	ppm	4-Apr	

AIC Time:	32 hrs	Operational Time:	686 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	13.8	3.3	2.2	2.1	2.0	1.9	1.9	2.4 ppm	2.1 ppm



**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-06	2.0	A	12.2	11.4	22.8	14.0	8.9	4.7	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.5	2.1	2.0	2.0	2.1	2.0	2.0	2.0	4.75	22.79
2-Apr-06	A	2.0	2.0	2.1	2.1	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.2	2.1	3.2	2.5	2.1	3.0	2.3	2.3	A	2.25	3.19
3-Apr-06	2.2	6.6	3.3	2.3	2.2	2.2	3.2	3.9	2.3	2.5	2.1	2.2	2.0	1.9	2.1	2.4	2.4	2.1	2.1	2.2	18.3	14.4	A	16.1	4.39	18.29
4-Apr-06	7.3	6.9	6.4	6.1	15.6	25.0	11.1	13.8	3.8	2.0	2.0	2.4	2.2	2.2	2.1	2.2	2.3	2.0	2.0	2.0	2.1	A	3.5	3.8	5.60	25.02
5-Apr-06	2.9	3.1	3.0	3.6	4.3	3.4	3.5	3.6	3.5	3.5	2.5	2.3	2.2	2.2	2.1	2.0	2.0	2.0	2.3	2.0	A	2.1	2.2	2.1	2.70	4.25
6-Apr-06	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.3	2.1	2.1	2.1	2.0	2.2	2.0	2.1	2.0	2.0	A	2.1	2.1	2.1	2.2	2.11	2.28
7-Apr-06	2.2	3.3	3.2	3.0	3.2	3.4	4.2	3.8	2.7	3.2	2.2	2.1	2.3	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.56	4.16
8-Apr-06	2.0	2.0	2.0	2.0	2.1	A	2.1	3.7	2.2	2.2	2.0	2.1	2.0	2.0	1.9	1.9	1.9	1.9	2.1	2.2	2.4	3.0	2.9	3.1	2.25	3.73
9-Apr-06	10.0	2.2	2.0	1.9	A	1.9	2.9	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.33	9.98
10-Apr-06	1.9	2.0	2.0	A	2.1	2.6	2.5	2.3	2.1	2.1	2.2	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.0	2.3	2.1	2.1	2.1	2.07	2.57
11-Apr-06	2.1	2.2	A	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	1.9	2.0	2.1	2.0	2.1	2.2	2.6	2.1	2.1	2.1	2.11	2.57
12-Apr-06	2.2	A	2.0	2.1	2.1	2.4	2.3	2.4	2.1	2.0	1.9	1.9	1.9	1.9	1.9	2.1	2.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.04	2.45
13-Apr-06	A	2.0	2.0	1.9	2.0	2.0	2.0	2.1	2.1	2.0	1.9	2.0	1.9	1.9	2.2	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2.2	2.00	2.19
14-Apr-06	2.0	2.1	2.0	2.1	2.1	A	2.1	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.0	2.0	2.00	2.12
15-Apr-06	2.0	2.1	2.0	2.0	A	2.5	2.4	2.3	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.2	2.2	2.08	2.51
16-Apr-06	2.3	2.3	2.6	A	2.7	2.5	2.2	2.4	2.4	2.3	2.1	2.0	2.0	2.0	2.0	1.9	2.2	1.9	1.9	2.0	2.1	2.0	2.0	2.0	2.17	2.66
17-Apr-06	2.0	2.0	A	2.3	2.4	2.2	2.3	2.1	2.1	2.0	1.9	1.9	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.2	2.6	2.4	2.09	2.55	
18-Apr-06	2.2	A	2.3	2.4	2.5	2.2	2.3	2.3	2.3	2.2	1.9	C	C	A	2.0	2.0	2.0	2.6	2.2	2.3	2.3	2.2	2.3	2.6	2.25	2.65
19-Apr-06	2.8	3.0	2.5	2.3	2.1	A	2.3	2.2	2.2	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.0	2.1	2.11	2.98
20-Apr-06	2.2	2.2	2.1	2.1	A	3.5	2.9	2.2	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.14	3.49
21-Apr-06	2.0	2.0	2.0	A	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.93	1.99
22-Apr-06	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.2	2.0	2.0	2.2	2.3	2.1	2.1	2.06	2.26
23-Apr-06	2.1	A	2.2	2.6	2.7	2.5	2.6	2.7	2.6	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.22	2.74
24-Apr-06	A	2.3	2.4	2.5	2.6	2.7	2.8	2.9	2.3	2.2	2.2	2.1	2.1	2.2	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.2	A	2.26	2.86
25-Apr-06	2.0	2.0	2.3	2.1	2.7	2.6	2.7	2.7	2.5	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2	2.0	2.0	A	2.1	2.16	2.70
26-Apr-06	2.1	2.2	2.2	2.4	2.7	2.8	2.7	2.4	2.3	2.1	2.0	2.0	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	2.0	1.9	A	2.0	2.14	2.79
27-Apr-06	2.0	2.0	2.0	2.1	2.1	2.1	2.2	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.3	2.4	2.06	2.42
28-Apr-06	2.2	2.2	2.2	2.2	2.2	2.4	2.4	2.5	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	A	2.0	2.0	2.0	2.1	2.10	2.46
29-Apr-06	2.0	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.04	2.17
30-Apr-06	2.0	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	A	2.0	2.0	2.1	2.1	2.1	2.1	2.08	2.17
Hourly Avg	2.63	2.56	2.77	2.73	3.62	3.70	2.98	2.93	2.29	2.19	2.06	2.04	2.01	2.00	2.01	2.00	2.03	2.05	2.01	2.03	2.69	2.57	2.18	2.69		
Hourly Max	9.98	6.93	12.23	11.41	22.79	25.02	11.15	13.79	3.79	3.50	2.48	2.37	2.27	2.20	2.35	2.39	2.52	3.19	2.47	2.29	18.29	14.43	3.53	16.07		



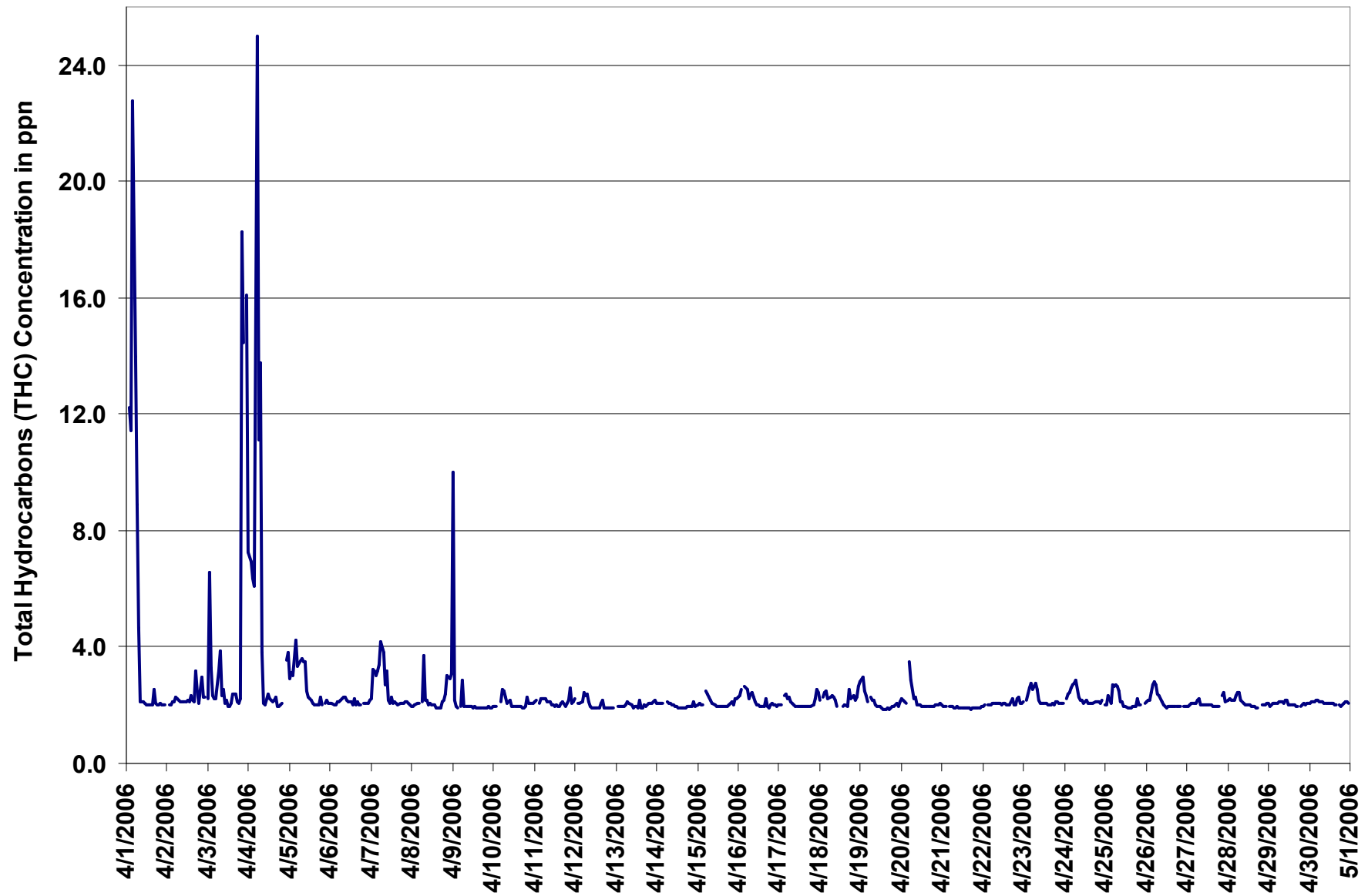
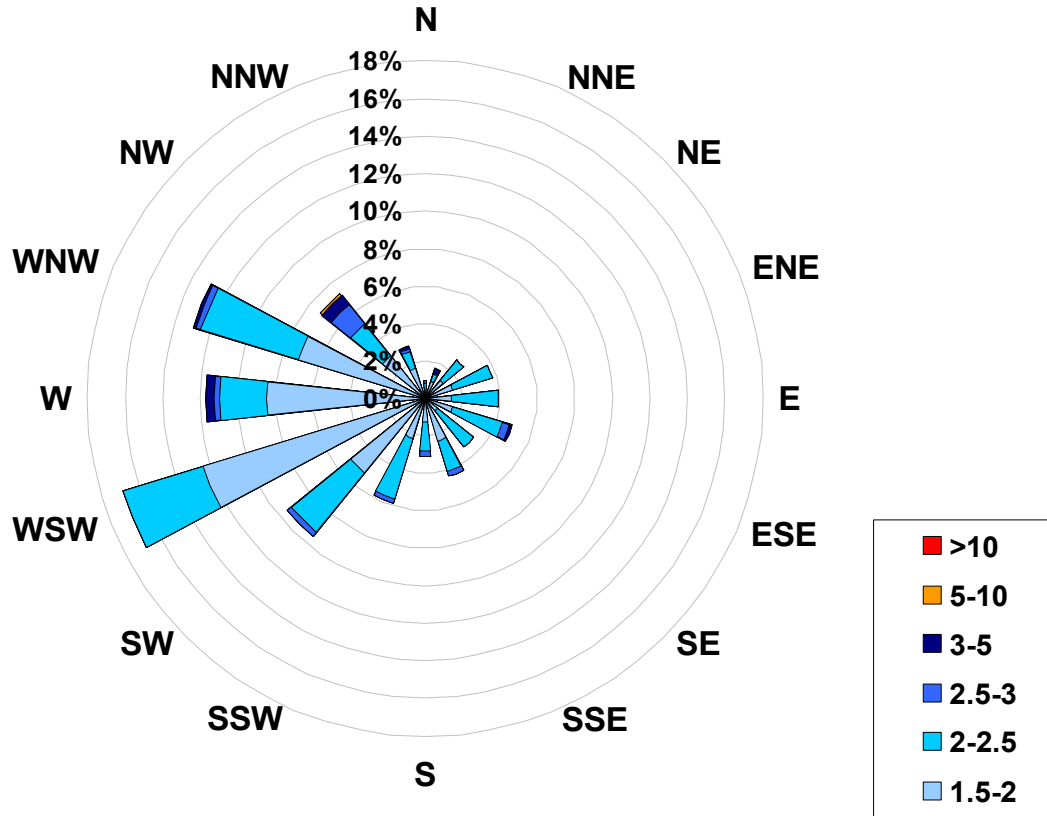


Figure 12. PASZA - Henry Pirker Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Hydrocarbons (in ppm)  
Located at the Henry Pirker Site for April 2006**



**Calms: 0%**

Frequency Distribution of THC in ppm Range			Frequency (hrs)
1.5	<	2	368
2	to	2.5	278
2.5	to	3	26
3	to	5	13
5	to	10	1
	>	10	0
Total Non-Zero Values			686

## PASZA - Henry Pirker - Total Reduced Sulphur Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

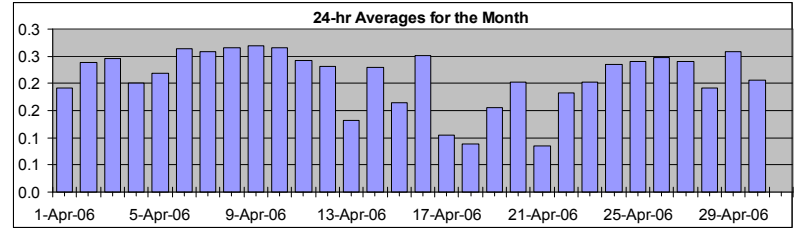
### Total Reduced Sulphur (TRS)

Monitoring Dates: April 1, 2006 to May 1, 2006

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

Summary				
Maximum 1-hr Average:	1.1	ppb	30-Apr	22:00 23:00
Maximum 24-hr Value:	0.3	ppb	9-Apr	

AIC Time:	32 hrs	Operational Time:	685 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.6	0.4	0.3	0.2	0.1	0.1	0.0	0.2 ppb	0.2 ppb



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

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	0:00
1-Apr-06	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	0.2	0.3
2-Apr-06	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	A	0.2	0.3
3-Apr-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.5
4-Apr-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.4
5-Apr-06	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	0.2	0.5
6-Apr-06	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	0.3	0.4
7-Apr-06	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
8-Apr-06	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.3	0.6
9-Apr-06	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	0.3	0.5
10-Apr-06	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	0.3	0.5
11-Apr-06	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	0.2	0.5
12-Apr-06	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	0.2	0.5
13-Apr-06	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	0.3
14-Apr-06	0	0	0	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
15-Apr-06	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
16-Apr-06	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	0.3	0.4
17-Apr-06	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
18-Apr-06	0	A	0	0	0	0	0	0	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
19-Apr-06	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
20-Apr-06	0	0	0	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
21-Apr-06	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	0.1	0.2
22-Apr-06	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	0.2	0.2
23-Apr-06	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	0.2	0.4
24-Apr-06	A	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.7
25-Apr-06	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0	0.2	1.0
26-Apr-06	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.5
27-Apr-06	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	0.5
28-Apr-06	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	0.2	0.4
29-Apr-06	1	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	0.3	0.5
30-Apr-06	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	0.2	1.1
Hourly Avg	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Hourly Max	0.5	0.4	0.5	0.5	0.6	0.5	0.6	0.7	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	1.0	1.1	0.6		

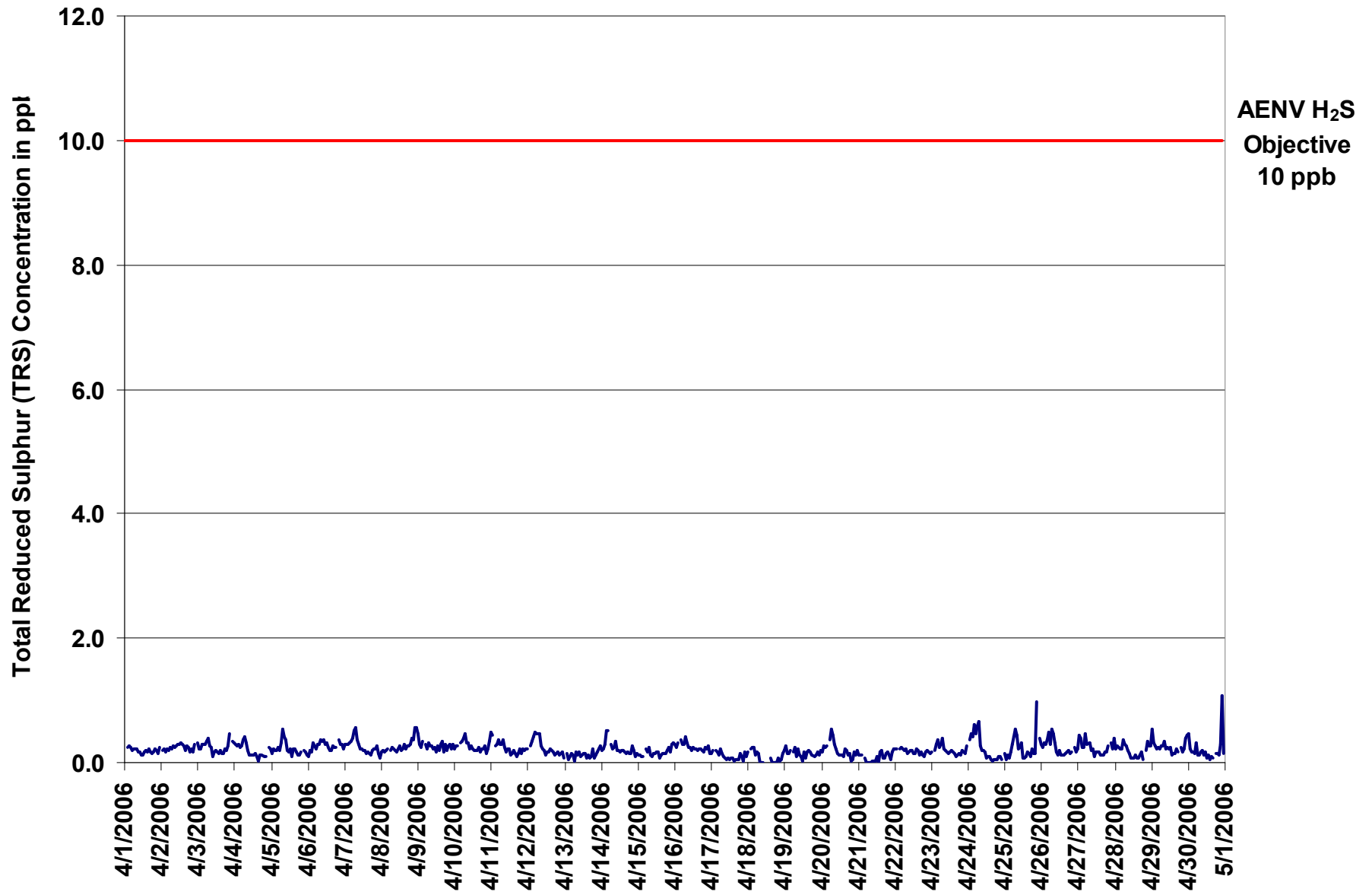


Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

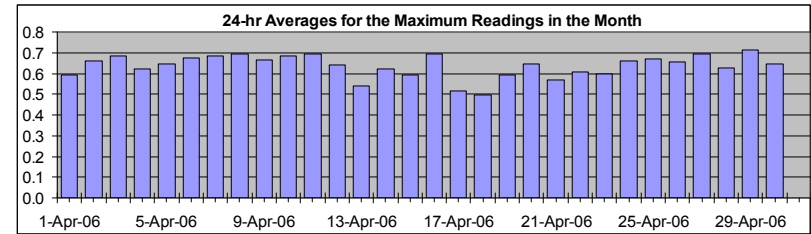
**Total Reduced Sulphur (TRS)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Value:	1.9	ppb	25-Apr	21:00 22:00
Maximum 24-hr Value:	0.7	ppb	29-Apr	

AIC Time:	32 hrs	Operational Time:	685 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.2	0.9	0.7	0.6	0.5	0.4	0.4	0.6 ppb	0.6 ppb



**Status Flag Characters**

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

Day	Mountain Standard Time																									24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Apr-06	1	A	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	1	0.6	0.8	
2-Apr-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	0.8	
3-Apr-06	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	A	1	0.7	1.2	
4-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	1	1	1	0	A	1	1	0.6	0.8	
5-Apr-06	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	A	1	1	0	0.6	1.0	
6-Apr-06	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.7	0.9	
7-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.2	
8-Apr-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1	
9-Apr-06	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	0.8	
10-Apr-06	0	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0	
11-Apr-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0.7	1.2	
12-Apr-06	1	A	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0.6	1.0	
13-Apr-06	A	1	0	1	1	1	0	1	1	1	0	1	1	1	0	0	0	1	1	1	0	1	1	1	0.5	0.7	
14-Apr-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0	0	1	1	1	0	1	1	0	1	0.6	0.9	
15-Apr-06	1	1	0	0	A	1	1	1	0	0	1	0	1	0	0	1	1	1	1	1	1	1	1	1	0.6	0.8	
16-Apr-06	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	1.1	
17-Apr-06	1	0	A	1	1	1	1	1	0	0	0	1	0	1	0	0	0	0	0	1	0	1	1	1	0.5	0.7	
18-Apr-06	1	A	1	0	1	0	1	1	1	0	0	C	C	C	A	1	0	0	1	0	1	0	0	1	0.5	0.7	
19-Apr-06	1	1	1	1	1	A	1	1	0	1	0	1	1	1	1	1	1	1	1	0	1	0	1	0	0.6	0.9	
20-Apr-06	1	1	1	1	A	1	1	1	1	0	1	0	1	0	0	1	1	0	0	0	1	1	1	1	0.6	1.3	
21-Apr-06	1	0	0	A	1	0	0	1	0	0	0	1	0	0	1	1	0	0	1	1	1	1	0	1	0.6	1.2	
22-Apr-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1	1	1	0.6	0.8	
23-Apr-06	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0.6	0.7	
24-Apr-06	A	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0.7	1.1	
25-Apr-06	1	0	1	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	1	0	1	2	A	1	0.7	1.9
26-Apr-06	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	1	1	1	1	1	1	A	1	0	0.7	1.1	
27-Apr-06	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	1.1	
28-Apr-06	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	0	1	0	A	1	1	1	1	1	0.6	0.9	
29-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	A	1	0	1	1	1	0.7	1.3	
30-Apr-06	1	1	0	1	1	1	1	0	1	1	0	1	0	0	0	0	0	A	1	1	0	1	2	1	0.6	1.5	
Hourly Avg	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7			
Hourly Max	1.3	1.1	1.0	1.1	1.1	1.1	1.3	1.1	1.2	0.9	0.9	0.8	0.9	0.7	1.1	1.2	0.8	0.9	0.7	0.8	0.9	1.9	1.5	1.0			

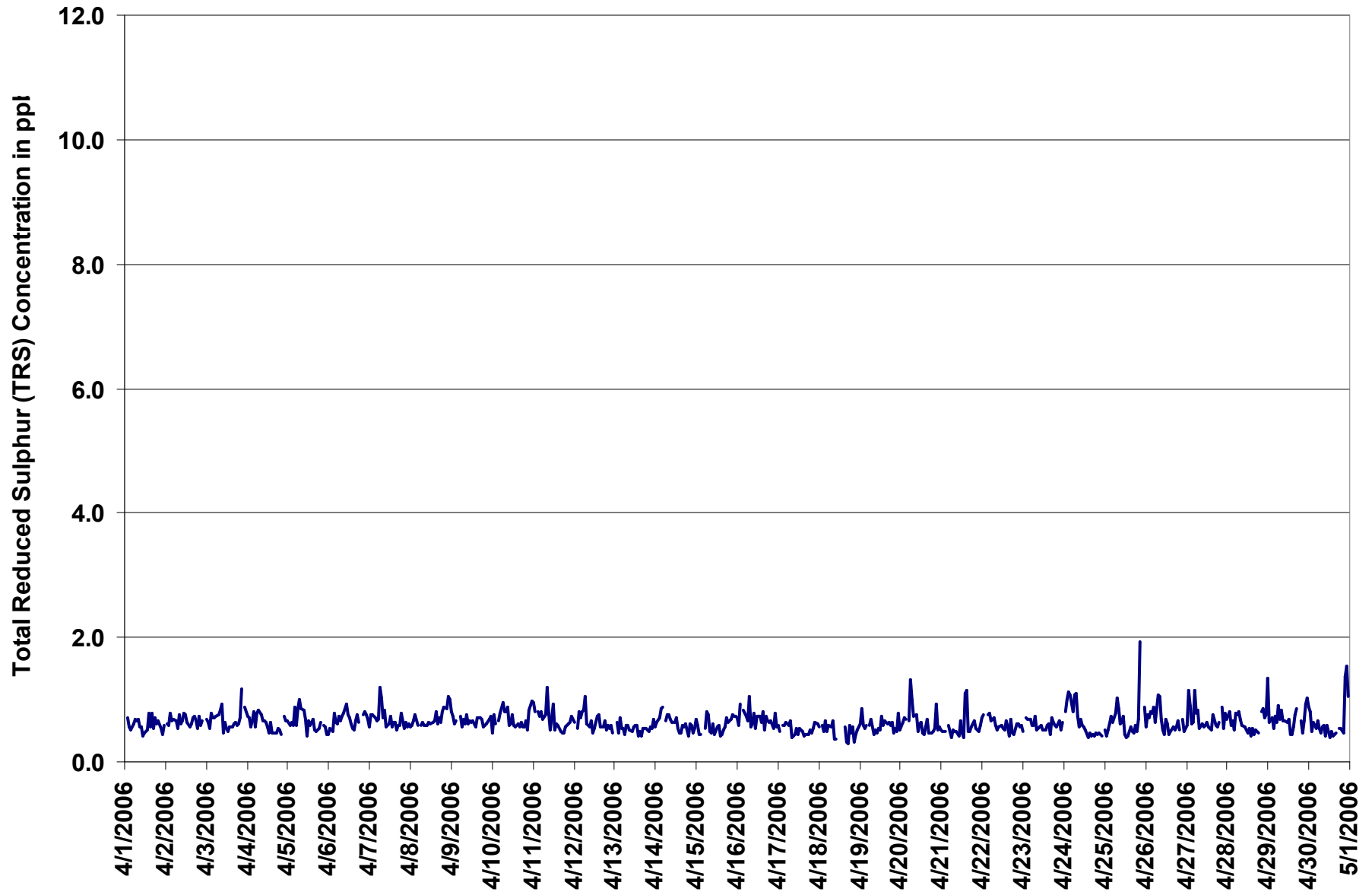
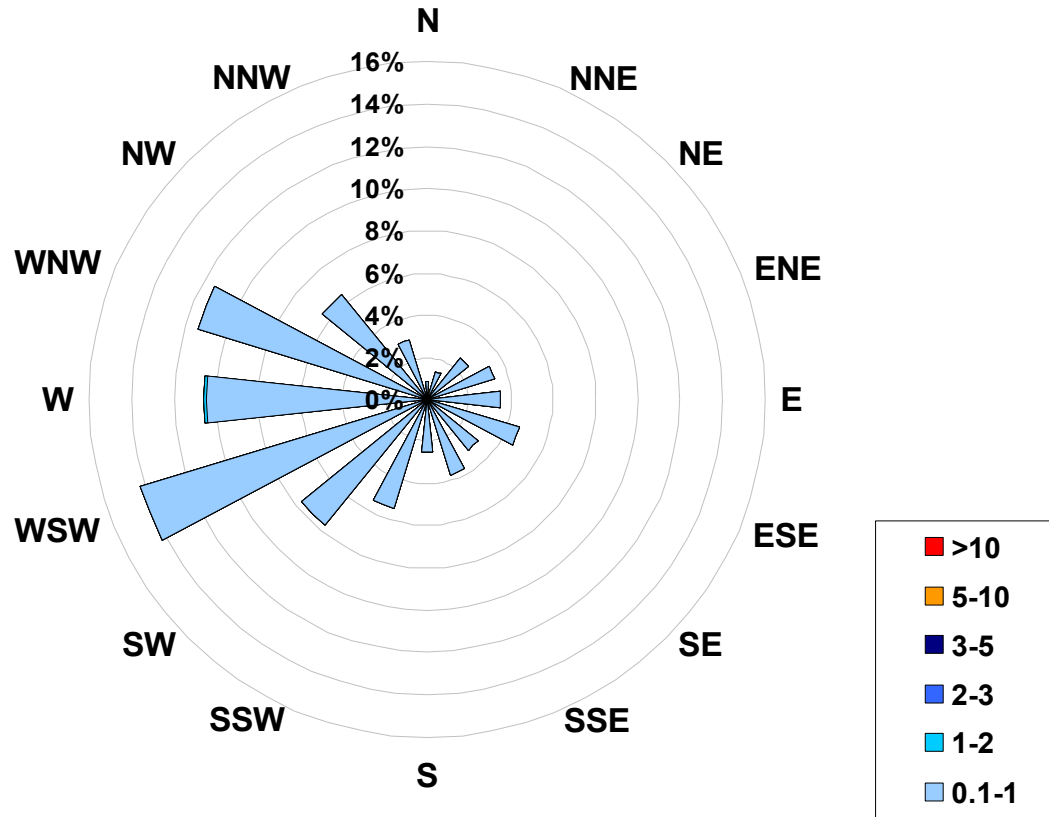


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)  
Located at the Henry Pirker Site for April 2006**



**Calms: 0%**

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	684
1	to	2	1
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			685

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

Station: Henry Pirker  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

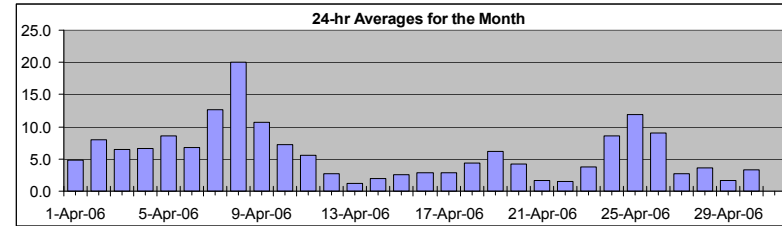
### Particulate Matter (PM<sub>2.5</sub>)

Monitoring Dates: April 1, 2006 to May 1, 2006

Draft Objective Limit: Alberta Environment: 1-hr - µg/m<sup>3</sup> 24-hr 30 µg/m<sup>3</sup>  
 Summary

Number of 24-hr Exceedances (draft):	0			
Maximum 1-hr Average:	83.5	µg/m <sup>3</sup>	9-Apr	0:00 1:00
Maximum 24-hr Value:	20.0	µg/m <sup>3</sup>	8-Apr	

AIC Time:	0 hrs	Operational Time:	711 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	99.4%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	34.9	15.1	7.5	4.0	1.6	0.0	0.0	5.7 4 µg/m <sup>3</sup>	4.6 µg/m <sup>3</sup>



#### 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		
1-Apr-06	0	D	4	8	4	5	6	8	5	5	4	4	3	3	5	4	4	5	5	5	6	6	5	6	4.9	8.0
2-Apr-06	5	5	3	4	3	6	8	12	6	8	6	8	11	43	D	7	11	16	13	8	0	0	0	0	8.0	43.0
3-Apr-06	0	1	2	1	0	1	2	7	2	3	2	0	0	1	0	3	7	5	13	25	38	25	15	6.4	38.1	
4-Apr-06	8	3	1	3	4	7	8	12	10	4	5	5	2	3	3	7	8	8	7	11	10	10	15	6.6	15.1	
5-Apr-06	8	4	4	5	6	7	11	21	19	25	11	7	6	5	5	4	5	7	7	9	9	8	7	5	8.6	25.2
6-Apr-06	5	4	3	4	5	6	7	7	7	D	D	7	9	19	5	4	6	7	11	6	8	7	5	6	6.7	18.7
7-Apr-06	7	6	7	6	9	10	21	35	C	C	C	C	C	15	13	7	10	13	14	15	17	16	12	9	12.7	35.2
8-Apr-06	7	6	7	8	9	10	10	11	12	10	9	9	8	8	8	8	11	10	10	27	59	73	82	68	20.0	81.6
9-Apr-06	83	23	10	5	3	5	7	6	9	7	5	9	11	4	5	10	8	11	8	8	6	5	5	4	10.7	83.5
10-Apr-06	4	6	4	4	5	8	13	16	8	3	2	2	5	1	1	2	2	3	5	14	32	23	6	5	7.2	32.3
11-Apr-06	5	5	4	3	6	6	9	12	8	7	6	4	3	3	2	1	2	3	4	8	17	8	4	5	5.6	16.5
12-Apr-06	3	3	2	4	3	5	10	13	5	1	0	0	0	4	0	0	3	0	0	2	2	2	1	1	2.7	12.8
13-Apr-06	2	1	1	1	1	1	3	4	2	0	0	1	1	0	0	1	1	1	2	2	3	2	0	1	1.1	3.8
14-Apr-06	1	1	2	3	4	0	0	1	2	3	2	2	9	5	1	1	1	1	0	1	2	1	2	1	1.9	8.6
15-Apr-06	2	2	2	1	2	2	4	6	5	1	0	0	0	1	1	1	5	0	2	2	6	3	2	10	2.5	9.6
16-Apr-06	5	4	4	3	3	3	5	7	7	2	2	0	2	3	0	0	2	1	1	2	6	4	2	2	2.9	7.5
17-Apr-06	2	1	2	3	4	3	5	4	4	1	0	0	0	1	4	3	3	3	3	3	4	4	7	2.8	6.7	
18-Apr-06	2	1	1	1	1	3	6	7	3	2	1	0	0	0	0	1	1	2	2	5	13	9	10	32	4.4	31.8
19-Apr-06	25	26	9	6	1	1	4	8	9	3	2	1	1	3	2	2	3	3	4	7	8	9	6	8	6.2	25.6
20-Apr-06	7	5	4	5	4	6	10	9	7	2	4	4	4	4	4	4	3	3	2	2	4	1	3	1	4.2	9.6
21-Apr-06	0	1	0	0	0	0	1	0	2	1	0	1	1	2	3	3	4	4	3	3	2	1	1	1	1.6	4.1
22-Apr-06	1	1	2	2	2	1	1	2	0	1	1	0	1	1	1	0	0	1	1	2	6	7	2	1	1.5	7.1
23-Apr-06	2	2	3	4	7	5	5	4	2	0	1	1	0	2	1	1	2	3	4	11	16	7	4	3	3.8	16.0
24-Apr-06	5	5	4	6	6	7	8	10	10	8	10	11	7	8	7	7	10	10	9	13	13	13	11	8	8.6	13.4
25-Apr-06	8	7	12	8	17	20	30	22	20	9	10	6	6	5	6	11	14	8	8	10	12	14	12	10	11.9	29.9
26-Apr-06	9	12	9	13	13	14	12	17	14	7	5	8	8	11	10	10	9	8	8	7	5	5	2	2	9.1	16.9
27-Apr-06	1	2	1	1	2	2	4	2	1	1	3	1	2	1	2	3	4	3	3	3	5	9	7	4	2.7	8.6
28-Apr-06	2	3	7	3	2	4	7	9	4	1	2	2	2	1	2	2	2	1	5	4	6	9	6	3	3.7	8.9
29-Apr-06	3	5	0	0	0	0	1	0	1	1	0	0	0	0	2	1	2	5	4	3	4	4	3	2	1.7	5.5
30-Apr-06	2	2	2	2	2	4	4	3	2	0	0	0	0	0	1	1	2	2	3	6	11	15	8	7	3.3	15.3
Hourly Avg	7.1	5.0	3.8	4.0	4.3	5.1	7.3	9.2	6.4	4.1	3.4	3.4	3.6	5.2	3.3	3.4	4.6	5.0	5.2	6.9	10.6	10.5	8.2	8.0		
Hourly Max	83.5	25.6	12.4	13.1	16.9	19.8	29.9	35.2	20.5	25.2	11.2	11.3	10.9	43.0	12.5	10.6	14.1	15.7	13.8	26.7	59.2	73.3	81.6	67.7		



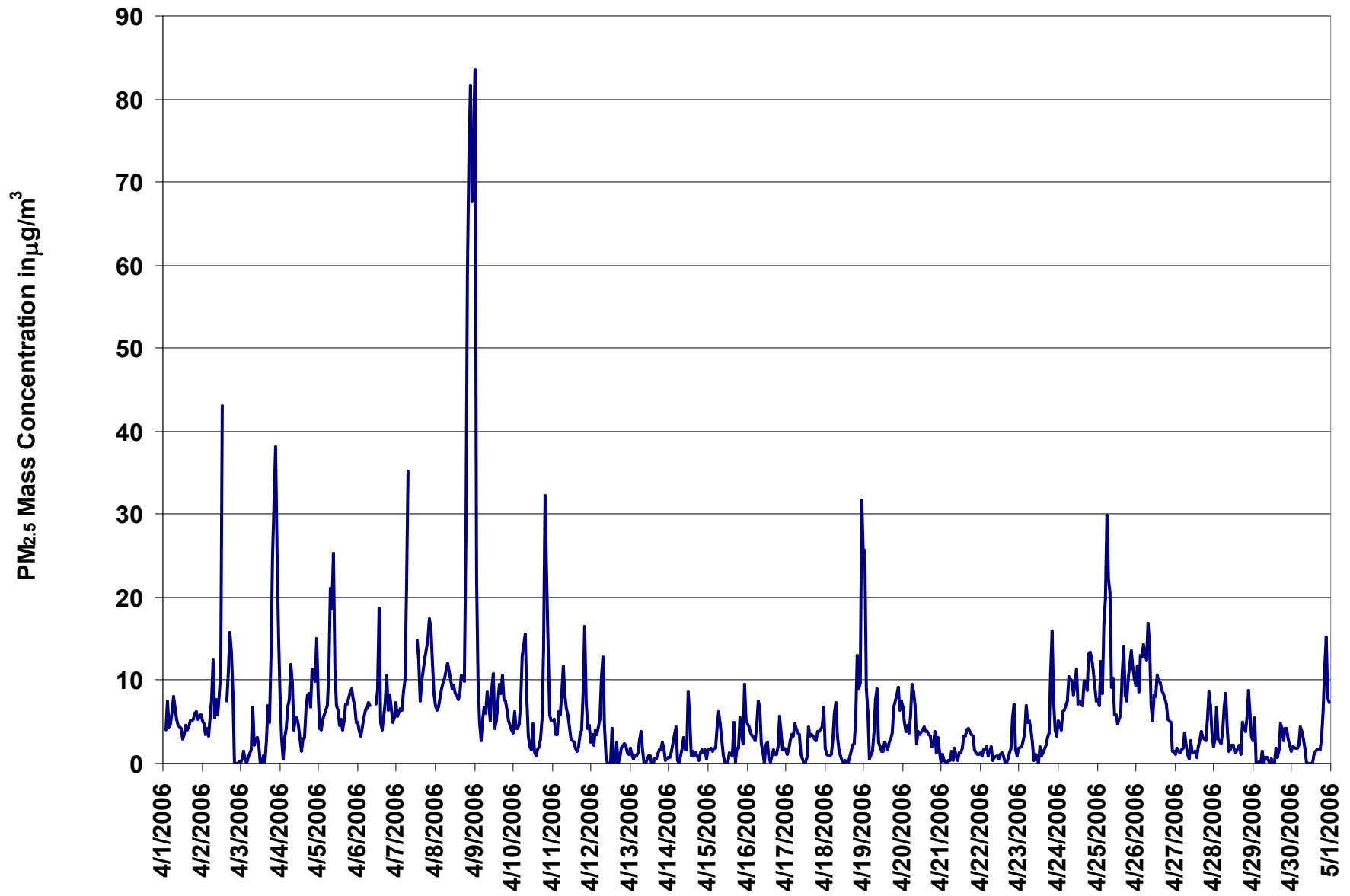


Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

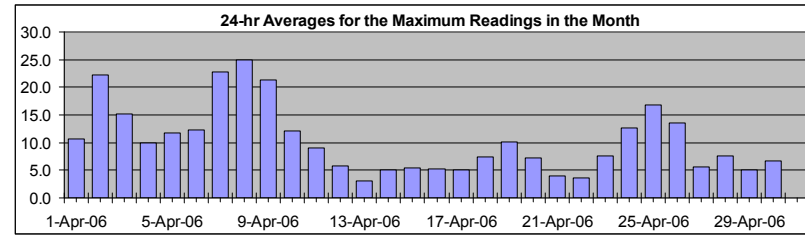
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Particulate Matter (PM<sub>2.5</sub>)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Average:	218.3	µg/m <sup>3</sup>	9-Apr	0:00 1:00
Maximum 24-hr Value:	25.0	µg/m <sup>3</sup>	8-Apr	



AIC Time:	0 hrs	Operational Time:	711 hrs							
Calibration Time:	5 hrs	AMD Operational Uptime:	99.4%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	77.7	25.0	11.2	6.8	4.0	2.3	1.3	10.2	7 µg/m <sup>3</sup>	8.8 µg/m <sup>3</sup>

**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-06	40	D	17	16	11	7	12	16	8	7	7	7	5	6	8	6	7	9	8	9	9	9	8	11	10.7	39.8
2-Apr-06	12	8	6	7	6	9	17	38	7	24	12	11	38	214	D	15	17	20	21	21	3	3	1	2	22.3	214.3
3-Apr-06	1	4	4	2	3	3	5	10	22	8	24	18	11	2	6	6	29	23	17	20	39	46	39	25	15.3	46.2
4-Apr-06	12	4	4	5	8	9	10	16	13	8	8	7	8	3	4	6	10	14	17	10	18	14	12	18	10.0	18.0
5-Apr-06	11	6	7	7	9	10	15	25	25	30	19	9	11	7	8	8	8	10	10	10	12	9	10	7	11.8	29.7
6-Apr-06	9	5	5	6	7	8	8	9	9	D	D	10	12	81	8	7	10	14	16	10	11	9	9	8	12.3	80.8
7-Apr-06	10	8	9	14	14	14	29	40	C	C	C	C	C	140	16	9	13	16	17	18	20	18	18	12	22.9	140.5
8-Apr-06	9	9	10	9	11	11	12	14	14	13	12	12	10	10	9	11	12	13	12	40	92	84	87	84	25.0	92.0
9-Apr-06	218	49	11	9	5	8	9	9	20	16	7	18	25	6	9	17	11	13	13	11	8	7	6	6	21.3	218.3
10-Apr-06	5	14	6	6	6	9	18	20	15	6	5	4	18	4	4	4	3	5	10	19	43	50	8	8	12.1	49.8
11-Apr-06	6	7	6	4	9	9	12	15	11	9	8	6	5	5	4	4	4	6	6	22	28	16	7	7	9.0	27.7
12-Apr-06	5	6	4	7	5	10	15	17	9	3	0	1	3	9	2	9	7	6	4	4	4	3	3	4	5.7	16.8
13-Apr-06	4	3	2	2	2	3	4	5	5	2	1	7	3	2	1	4	2	3	3	5	4	4	3	2	3.1	6.5
14-Apr-06	3	2	4	7	6	3	1	3	5	6	4	12	25	9	5	4	3	4	2	4	3	4	3	3	5.0	24.6
15-Apr-06	3	4	3	3	3	4	6	10	9	3	2	1	4	6	3	5	13	4	5	8	7	5	13	5.4	13.2	
16-Apr-06	10	6	7	5	4	5	7	10	9	5	3	3	5	4	3	3	5	3	2	5	7	7	4	3	5.2	10.0
17-Apr-06	3	3	5	7	5	5	7	6	5	3	2	2	3	3	9	5	6	6	6	4	5	6	6	11	5.1	11.3
18-Apr-06	4	2	2	3	2	6	8	10	5	4	3	3	2	3	2	2	3	4	6	11	17	14	12	49	7.4	49.2
19-Apr-06	34	46	14	10	2	4	8	10	12	7	4	3	3	4	4	4	4	5	5	10	11	13	11	12	10.1	46.0
20-Apr-06	9	8	6	8	7	7	12	18	16	4	6	6	6	8	6	5	6	5	3	5	7	4	7	4	7.3	17.8
21-Apr-06	2	3	2	4	3	3	5	2	4	3	3	3	3	4	5	6	6	6	7	6	4	4	4	3	3.9	6.7
22-Apr-06	3	2	3	3	4	3	3	5	2	3	3	3	3	3	3	2	1	3	3	4	11	10	4	2	3.7	10.7
23-Apr-06	4	4	4	5	10	7	8	8	7	2	4	5	2	4	4	4	4	5	5	28	30	21	5	4	7.6	29.5
24-Apr-06	10	8	7	10	9	10	10	19	16	10	13	18	10	10	10	10	14	12	11	25	24	16	15	9	12.7	24.9
25-Apr-06	9	8	23	14	28	27	37	31	27	16	13	10	10	7	10	15	18	11	13	13	16	19	16	13	16.8	36.9
26-Apr-06	14	21	16	19	20	22	17	20	22	12	10	11	11	14	19	14	12	10	10	10	7	7	4	4	13.5	22.4
27-Apr-06	3	3	3	4	3	3	6	5	3	2	5	4	4	4	6	5	6	5	5	6	9	14	13	11	5.6	14.1
28-Apr-06	5	5	18	5	5	8	10	12	10	4	5	5	5	4	3	5	4	4	15	6	13	14	14	6	7.6	17.6
29-Apr-06	5	10	7	2	3	2	6	2	5	4	4	4	3	3	5	3	6	8	6	8	7	7	6	4	5.0	10.2
30-Apr-06	3	4	4	4	3	8	7	6	4	2	3	3	2	3	6	7	4	5	7	14	15	26	10	10	6.7	26.2
Hourly Avg	15.7	9.0	7.3	6.9	7.1	7.9	10.8	13.8	11.0	7.8	6.8	7.0	8.5	19.4	6.2	6.9	8.3	8.4	8.9	12.0	16.1	15.5	11.7	11.8		
Hourly Max	218.3	49.2	23.3	18.9	27.9	26.7	36.9	40.4	26.8	29.7	24.1	18.5	37.6	214.3	18.5	17.1	28.9	23.2	21.4	39.6	92.0	84.1	86.9	83.6		

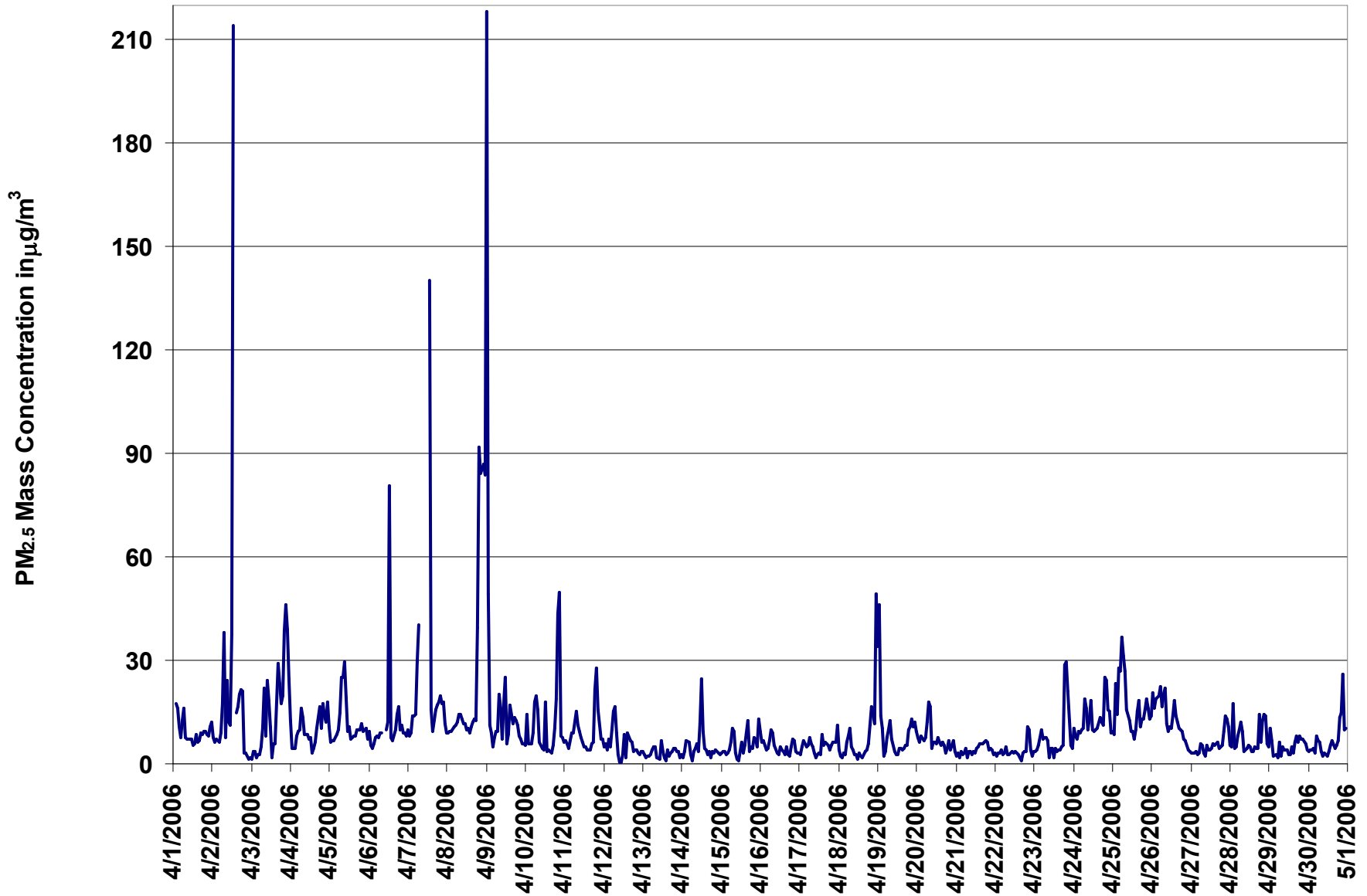
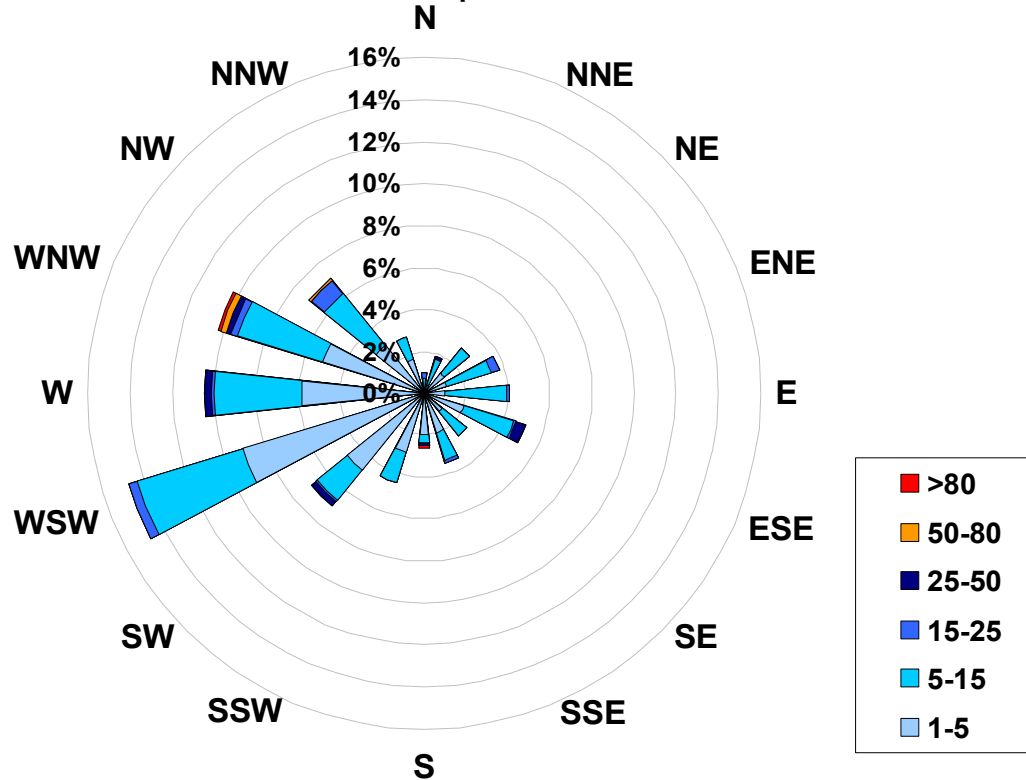


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

**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 April 2006**



**Calms: 0%**

Frequency Distribution of PM <sub>2.5</sub> in µg/m <sup>3</sup>			Frequency (hrs)
Range			
1.0	<	5	417
5	to	15	257
15	to	25	21
25	to	50	11
50	to	80	3
	>	80	2
Total Non-Zero Values			711

# PASZA - Henry Pirker - Relative Humidity Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

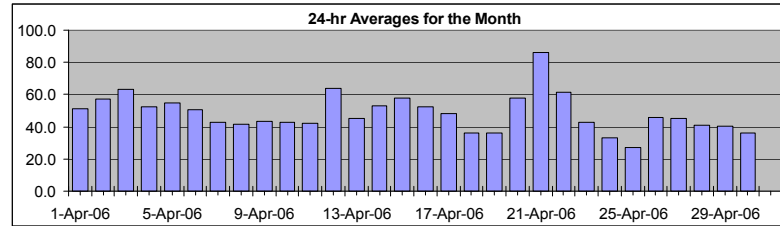
## Relative Humidity (RH)

Monitoring Dates: April 1, 2006 to May 1, 2006

### Summary

Maximum 1-hr Average:	93.2 %	3-Apr	3:00 4:00
Maximum 24-hr Value:	86.4 %	21-Apr	

AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	90.9	84.5	62.8	47.7	31.8	18.1	10.3	48.4 %	47.7 %



### 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																								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-Apr-06	56	56	68	68	74	77	76	61	51	48	45	45	38	33	34	36	39	40	44	48	47	46	46	48	48	51.0	76.9
2-Apr-06	49	50	51	55	65	68	69	66	60	54	48	42	37	35	37	33	38	45	49	73	83	84	88	90	90	57.0	90.4
3-Apr-06	92	93	93	93	92	91	91	82	71	71	65	53	44	36	32	31	29	32	35	41	51	63	66	70	70	63.3	93.2
4-Apr-06	76	77	78	77	71	81	84	70	61	49	44	39	34	28	28	26	27	28	31	39	43	45	53	73	73	52.6	84.2
5-Apr-06	80	78	82	83	83	83	84	74	61	54	49	43	37	36	32	28	26	30	35	42	47	51	54	51	51	55.1	83.8
6-Apr-06	55	57	60	65	71	76	80	78	71	63	56	46	42	37	31	29	28	30	34	35	40	43	44	45	45	50.7	80.0
7-Apr-06	54	59	66	66	67	70	71	68	52	42	40	31	24	22	22	21	21	22	24	31	34	37	38	39	39	42.5	70.8
8-Apr-06	37	40	41	45	52	53	53	52	52	46	40	38	32	27	24	25	28	27	31	36	46	53	60	64	64	41.8	63.7
9-Apr-06	69	67	69	61	48	43	49	55	45	41	36	29	27	27	27	29	31	32	34	36	41	46	48	51	51	43.5	69.4
10-Apr-06	50	55	59	63	63	65	64	60	52	44	38	34	32	29	26	25	24	25	25	31	39	39	44	48	48	43.1	64.9
11-Apr-06	54	57	58	59	65	66	66	61	54	46	38	30	27	26	25	23	22	23	26	30	33	35	42	49	49	42.3	66.1
12-Apr-06	51	56	64	76	80	83	85	83	75	66	53	50	46	75	80	73	75	55	45	51	54	58	54	47	47	63.9	85.3
13-Apr-06	51	55	59	61	60	60	61	57	51	45	41	37	35	32	29	28	30	33	36	43	46	46	47	48	48	45.5	61.2
14-Apr-06	49	51	51	52	53	56	55	54	52	48	44	40	40	72	75	69	57	50	47	44	43	45	50	56	57	52.8	75.4
15-Apr-06	65	73	68	68	70	72	73	68	58	51	41	31	26	31	32	38	51	52	54	52	61	82	87	84	84	58.0	87.4
16-Apr-06	77	81	81	84	82	85	85	75	65	59	50	35	30	28	23	21	25	28	30	32	38	41	51	54	54	52.5	85.2
17-Apr-06	60	66	71	77	78	77	71	64	59	45	37	34	30	26	24	27	28	28	30	33	39	43	50	54	54	48.0	78.2
18-Apr-06	53	54	55	56	59	58	53	49	39	29	23	21	19	17	15	14	15	17	22	27	36	39	45	50	50	36.1	59.3
19-Apr-06	55	55	52	49	49	51	51	47	40	31	30	29	25	23	21	18	18	18	21	24	28	34	43	51	51	35.9	54.9
20-Apr-06	52	56	59	65	68	71	72	74	71	59	50	43	39	38	42	43	48	50	52	54	65	70	73	76	76	57.8	76.0
21-Apr-06	75	79	81	84	84	85	88	87	86	85	85	89	87	87	89	89	88	88	86	87	90	91	92	91	91	86.4	91.6
22-Apr-06	89	87	87	86	85	84	83	80	68	65	64	57	51	48	44	38	32	32	34	41	48	54	58	61	61	61.6	88.9
23-Apr-06	67	68	72	72	78	79	75	69	58	48	39	32	26	23	21	18	15	14	14	17	23	28	33	35	35	42.7	79.3
24-Apr-06	42	65	69	72	74	72	69	56	45	37	30	20	14	13	10	9	8	8	8	11	14	16	16	16	16	33.0	73.6
25-Apr-06	21	22	31	33	49	54	59	44	37	27	22	14	10	8	7	9	12	13	13	18	27	39	43	44	44	27.3	59.3
26-Apr-06	55	57	56	60	66	70	59	51	45	36	21	22	24	25	32	33	36	38	41	47	53	56	56	61	61	45.9	69.9
27-Apr-06	66	67	70	70	70	69	69	57	45	40	35	31	28	25	23	21	24	29	32	37	43	47	44	48	48	45.4	70.2
28-Apr-06	55	59	59	59	58	63	58	52	43	37	30	29	29	28	23	21	21	21	24	28	35	44	50	55	55	40.9	63.2
29-Apr-06	56	64	63	54	51	50	44	42	31	29	27	24	22	23	26	26	28	37	45	46	43	48	47	50	50	40.6	63.9
30-Apr-06	51	56	60	59	60	62	55	49	41	33	26	25	22	19	18	18	18	18	18	21	27	32	36	45	45	36.1	61.9
Hourly Avg	58.7	61.9	64.4	65.7	67.6	69.2	68.4	62.8	54.6	47.6	41.6	36.4	33.7	32.7	31.6	30.4	31.2	32.0	33.9	38.4	44.0	48.7	52.1	55.3	55.3		
Hourly Max	92.4	92.8	93.1	93.2	91.7	90.8	91.0	87.1	86.0	84.5	85.1	89.1	86.9	87.2	88.9	88.8	88.3	87.5	86.0	87.5	89.9	91.3	91.6	90.9	90.9		

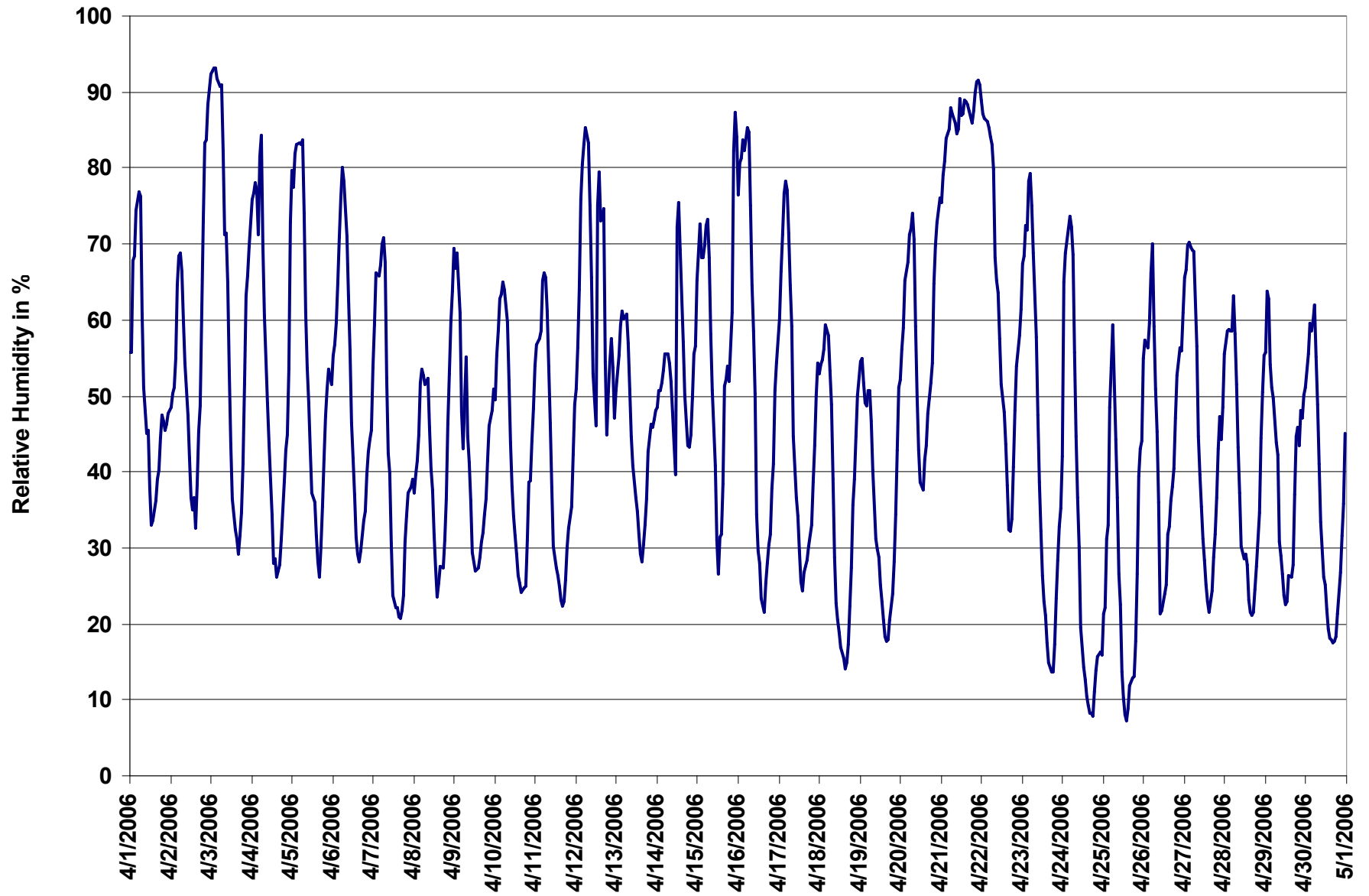


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

# PASZA - Henry Pirker - Temperature Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

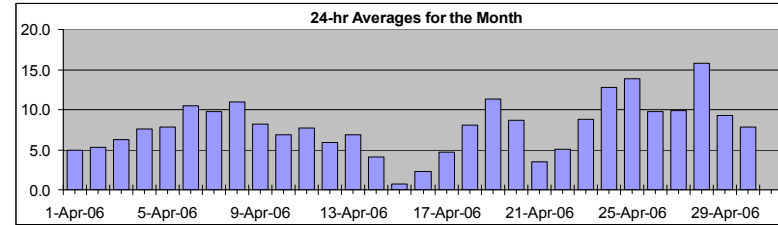
## HOURLY AVERAGE TABLE

## Ambient Temperature (T)

Monitoring Dates: April 1, 2006 to May 1, 2006

### Summary

Maximum 1-hr Average:	24.5 °C	28-Apr	16:00 17:00
Maximum 24-hr Value:	15.7 °C	28-Apr	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	23.2	18.3	12.1	7.4	3.1	-1.2	-4.1	7.8 °C	7.4 °C

### Status Flag Characters

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

Day	Mountain Standard Time																								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-Apr-06	3	3	1	1	-1	-2	-2	2	3	4	6	7	9	10	11	11	11	10	8	6	5	4	4	3		4.9	10.9	
2-Apr-06	3	2	2	2	0	0	0	1	3	4	6	8	10	12	11	13	12	11	10	7	5	3	2	1		5.3	13.1	
3-Apr-06	1	0	0	0	-1	-1	-1	1	4	5	7	10	12	14	14	14	14	13	12	11	8	5	4	3		6.2	14.5	
4-Apr-06	1	1	1	1	1	-1	-2	2	5	8	11	13	14	15	15	16	16	15	14	12	10	8	6	1		7.6	16.4	
5-Apr-06	-1	0	-1	-1	-2	-2	-2	1	5	8	9	11	13	14	16	17	17	16	15	14	12	11	9	9		7.8	17.0	
6-Apr-06	7	7	6	6	6	5	5	6	8	8	9	13	15	17	18	18	17	16	15	14	11	10	8	7		10.5	18.3	
7-Apr-06	4	3	1	1	1	0	0	2	6	10	12	15	17	18	18	18	19	18	17	14	12	11	10	9		9.7	18.5	
8-Apr-06	9	8	7	6	4	4	5	5	6	10	12	15	17	18	19	18	17	17	16	15	11	9	7	7		10.9	19.3	
9-Apr-06	5	5	6	7	7	7	6	6	8	7	9	11	12	12	12	12	11	11	10	9	8	6	6	5		8.2	12.1	
10-Apr-06	5	3	2	0	0	0	0	2	5	8	10	11	12	13	14	13	13	12	12	9	7	6	5	3		6.8	13.6	
11-Apr-06	2	2	1	1	-1	-1	-1	1	4	7	10	12	13	14	14	15	15	14	12	12	10	10	10	8		7.7	15.0	
12-Apr-06	7	6	4	2	2	2	2	3	6	8	10	11	12	7	6	7	8	9	8	6	4	4	4	4		5.9	12.1	
13-Apr-06	3	2	1	1	1	1	1	3	5	7	8	9	10	12	13	14	12	11	11	10	9	8	7	7		6.9	13.8	
14-Apr-06	6	6	6	5	5	4	4	4	5	7	8	9	3	2	2	4	4	5	4	4	3	1	-1	-1		4.1	9.2	
15-Apr-06	-3	-4	-3	-3	-4	-5	-4	-3	1	3	5	7	7	6	5	5	4	3	3	3	1	-1	-2	-2		0.7	6.9	
16-Apr-06	-3	-4	-5	-6	-6	-7	-8	-4	1	2	3	6	8	10	11	10	9	9	8	7	6	5	3	3		2.3	11.0	
17-Apr-06	2	0	-1	-2	-3	-3	-1	1	3	7	8	9	9	11	11	10	10	10	9	8	6	4	2	1		4.7	10.9	
18-Apr-06	2	1	0	0	-1	-1	0	2	6	10	12	13	14	15	16	17	17	17	15	13	9	8	6	5		8.1	17.0	
19-Apr-06	3	3	3	4	4	3	4	6	9	13	13	14	16	18	20	20	20	20	18	17	14	12	10	8		11.3	20.4	
20-Apr-06	7	6	6	4	3	2	3	4	6	9	12	14	16	16	15	14	13	13	12	10	7	6	5	5		8.7	16.4	
21-Apr-06	5	5	4	3	3	3	3	3	4	4	3	3	4	4	3	3	4	5	5	4	3	2	2	2		3.5	5.0	
22-Apr-06	2	1	1	1	1	1	1	1	3	3	4	5	7	8	10	11	11	10	10	9	7	5	5	3		5.0	11.2	
23-Apr-06	2	1	0	0	-2	-2	-1	2	5	8	11	13	14	16	16	17	18	17	17	16	13	12	10	9		8.8	17.8	
24-Apr-06	7	1	0	-1	-1	-1	0	5	9	12	15	19	22	22	23	23	24	23	22	20	17	16	14	13		12.7	23.6	
25-Apr-06	12	12	9	8	4	2	4	7	11	15	18	22	22	23	24	23	21	20	19	17	13	10	7	6		13.8	23.7	
26-Apr-06	4	4	4	3	2	2	4	7	10	13	16	18	17	17	14	15	14	13	12	11	10	9	8	6		9.7	17.6	
27-Apr-06	5	5	4	3	4	4	5	7	9	10	11	12	13	14	15	16	15	15	14	13	11	10	11	10		9.8	15.5	
28-Apr-06	9	8	8	8	8	6	9	12	16	18	20	19	19	20	23	24	25	24	23	21	18	15	14	13		15.7	24.5	
29-Apr-06	14	13	11	9	9	8	7	7	8	8	9	10	11	11	11	12	12	10	9	9	8	7	6	4		9.3	13.7	
30-Apr-06	4	2	1	1	0	-1	2	4	7	9	11	12	13	14	14	15	15	14	14	12	9	8	7	5		7.9	14.7	
Hourly Avg	4.2	3.3	2.6	2.0	1.4	0.9	1.4	3.4	6.0	8.2	9.9	11.7	12.7	13.4	13.9	14.1	13.9	13.4	12.6	11.1	8.9	7.4	6.3	5.3				
Hourly Max	13.7	12.9	11.0	9.3	8.6	8.0	9.1	12.3	16.0	18.0	19.5	21.6	22.2	23.4	23.7	23.8	24.5	24.2	22.7	21.4	18.0	15.6	14.0	13.5				

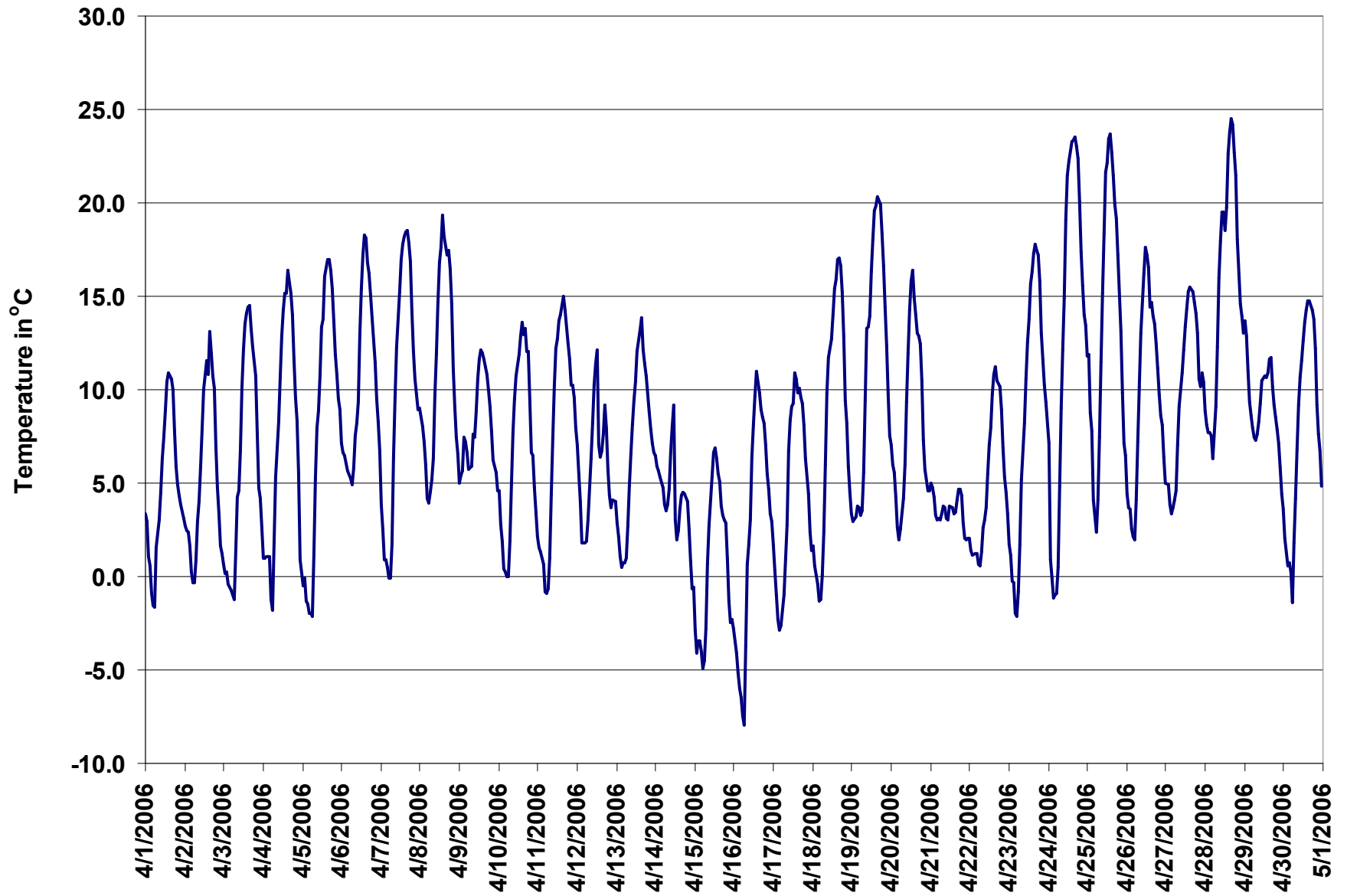


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend



# PASZA - Henry Pirker - Solar Radiation Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

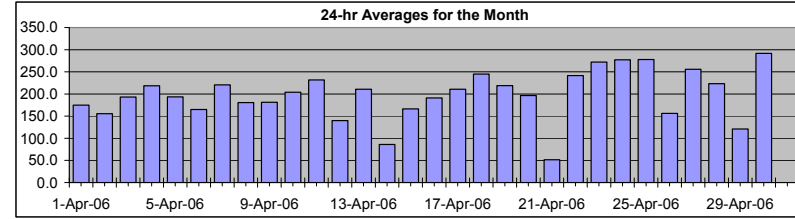
## Solar Radiation (SR)

Monitoring Dates: April 1, 2006 to May 1, 2006

### Summary

Maximum 1-hr Average:	795.1	W/m <sup>2</sup>	30-Apr	12:00 13:00
Maximum 24-hr Value:	291.6	W/m <sup>2</sup>	30-Apr	

AIC Time:	0 hrs						Operational Time:	720 hrs						
Calibration Time:	0 hrs						AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average						Median
	764.4	690.7	376.2	62.7	0.0	0.0	0.0	198.4 W/m <sup>2</sup>						62.7 W/m <sup>2</sup>



### Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Apr-06	0	0	0	0	0	6	14	76	135	237	332	436	603	642	583	502	369	213	22	21	2	0	0	0	174.7	641.6	
2-Apr-06	0	0	0	0	1	1	11	136	243	256	400	405	588	498	298	512	154	171	40	15	0	0	0	0	155.4	587.6	
3-Apr-06	0	0	0	0	0	0	18	132	239	293	449	600	640	644	580	487	332	150	56	17	0	0	0	0	193.2	643.7	
4-Apr-06	0	0	0	0	0	0	17	128	275	415	530	614	660	658	611	524	406	268	127	16	0	0	0	0	218.7	659.8	
5-Apr-06	0	0	0	0	0	0	17	124	272	409	463	435	596	372	600	534	420	274	110	17	1	0	0	0	193.5	600.1	
6-Apr-06	0	0	0	0	0	2	14	102	202	217	348	620	587	668	599	357	139	68	29	11	0	0	0	0	165.1	668.4	
7-Apr-06	0	0	0	0	0	2	14	90	273	421	535	633	673	670	618	510	427	273	133	21	1	0	0	0	220.6	673.4	
8-Apr-06	0	0	0	0	0	1	11	43	105	411	430	632	665	592	603	296	215	217	95	18	0	0	0	0	180.7	665.2	
9-Apr-06	0	0	0	0	0	2	15	85	307	321	446	649	691	644	376	278	231	185	87	26	2	0	0	0	181.2	691.0	
10-Apr-06	0	0	0	0	0	0	18	133	243	423	581	648	688	683	608	272	327	115	127	23	0	0	0	0	203.8	687.7	
11-Apr-06	0	0	0	0	0	0	39	125	296	443	571	654	694	694	656	560	455	294	54	22	0	0	0	0	231.6	693.9	
12-Apr-06	0	0	0	0	0	0	23	99	263	348	425	521	447	171	231	99	337	250	127	20	0	0	0	0	140.1	521.3	
13-Apr-06	0	0	0	0	0	1	33	181	337	473	585	645	652	701	644	486	183	86	40	7	0	0	0	0	210.6	700.6	
14-Apr-06	0	0	0	0	0	1	12	48	119	243	186	193	207	234	313	202	135	63	77	33	0	0	0	0	86.2	313.3	
15-Apr-06	0	0	0	0	1	1	26	99	278	406	585	718	497	449	253	249	134	139	109	53	1	0	0	0	166.5	718.0	
16-Apr-06	0	0	0	0	0	2	40	203	319	276	376	538	623	679	697	349	174	148	124	37	1	0	0	0	191.1	697.2	
17-Apr-06	0	0	0	0	0	4	78	105	269	491	634	553	442	706	552	358	411	266	144	43	1	0	0	0	210.6	705.6	
18-Apr-06	0	0	0	0	0	3	61	193	370	506	619	692	706	643	554	546	482	338	140	29	1	0	0	0	245.1	706.4	
19-Apr-06	0	0	0	0	0	3	47	156	340	431	316	414	727	754	680	486	411	336	117	36	2	0	0	0	219.0	754.0	
20-Apr-06	0	0	0	0	1	2	46	85	162	273	531	710	722	658	561	353	231	207	136	39	1	0	0	0	196.6	721.5	
21-Apr-06	0	0	0	0	0	2	15	65	85	80	84	113	117	182	146	77	107	99	53	13	1	0	0	0	51.6	182.3	
22-Apr-06	0	0	0	0	0	3	36	140	370	354	411	711	765	746	710	615	494	239	154	48	3	0	0	0	241.6	765.1	
23-Apr-06	0	0	0	0	0	6	78	206	380	525	645	690	766	762	716	626	503	357	205	61	3	0	0	0	272.0	766.1	
24-Apr-06	0	0	0	0	0	7	86	214	391	535	651	732	774	769	726	630	504	357	209	62	4	0	0	0	277.1	774.3	
25-Apr-06	0	0	0	0	0	8	94	219	395	543	659	739	779	754	699	559	537	347	247	85	4	0	0	0	277.8	778.6	
26-Apr-06	0	0	0	0	0	9	88	221	358	509	569	629	400	219	207	196	151	122	53	14	4	0	0	0	156.2	628.7	
27-Apr-06	0	0	0	0	0	8	80	204	395	541	653	735	761	769	706	556	390	175	108	54	5	0	0	0	255.9	768.8	
28-Apr-06	0	0	0	0	0	8	123	225	370	514	691	448	257	460	667	518	460	333	176	104	6	0	0	0	223.4	690.7	
29-Apr-06	0	0	0	0	0	5	32	78	112	238	308	381	404	264	286	331	314	94	36	15	4	0	0	0	120.9	404.3	
30-Apr-06	0	0	0	0	0	15	130	240	425	566	679	756	795	788	740	648	525	383	223	79	7	0	0	0	291.6	795.1	
Hourly Avg	0.0	0.0	0.0	0.0	0.1	3.4	43.9	138.5	277.6	389.9	489.8	574.9	597.5	582.4	540.7	423.9	331.9	218.9	112.0	34.8	1.7	0.0	0.0	0.0			
Hourly Max	0.0	0.0	0.0	0.0	0.9	15.3	129.6	239.9	424.8	565.9	690.7	756.1	795.1	788.0	739.8	647.6	536.5	383.1	246.6	104.4	6.7	0.5	0.0	0.0			

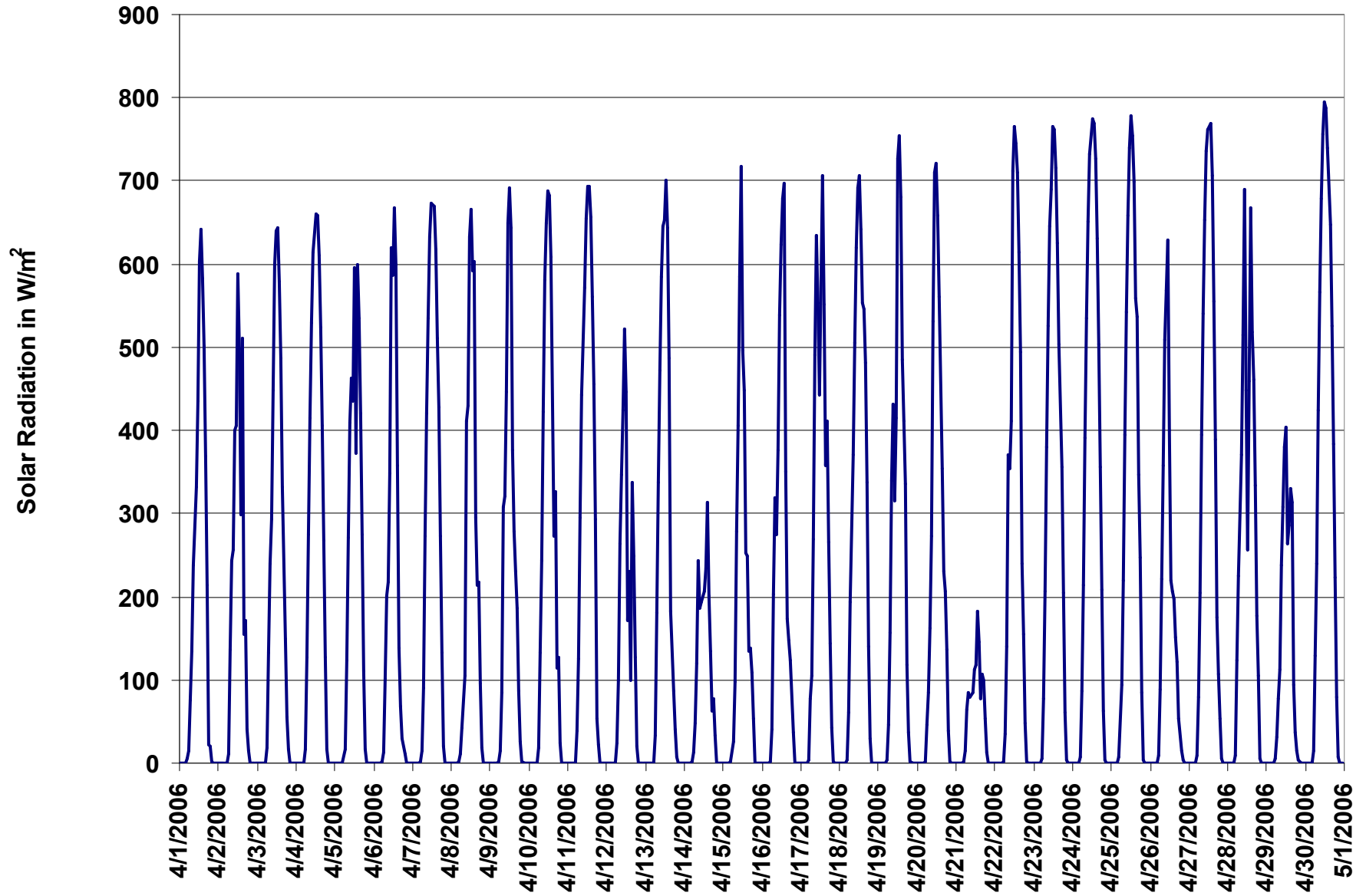


Figure 19. PASZA - Henry Pirker Solar Radiation 1-hr Average Monthly Trend

# PASZA - Henry Pirker - Scalar Wind Speed Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

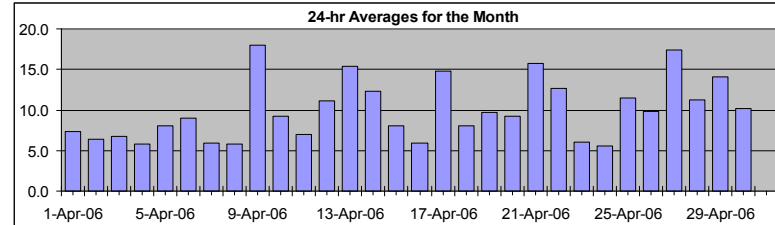
## Wind Speed (WSs)

Monitoring Dates: April 1, 2006 to May 1, 2006

### Summary

Maximum 1-hr Average:	39.0	km/hr	14-Apr	12:00 13:00
Maximum 24-hr Value:	18.0	km/hr	9-Apr	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	28.3	22.8	12.9	8.0	5.3	3.4	2.7	9.9 km/hr



### Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max		
Hour Start	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-Apr-06	5	4	3	3	5	4	3	4	6	6	7	10	10	10	11	12	12	11	10	7	9	10	9	10		7.3	12.3
2-Apr-06	8	8	7	5	4	4	5	4	5	4	5	4	4	5	5	5	8	10	7	18	11	5	6	5		6.4	18.3
3-Apr-06	3	5	4	3	5	4	4	3	7	8	9	12	14	13	14	12	9	7	4	4	4	3	5	4		6.7	14.5
4-Apr-06	5	5	4	3	6	4	3	5	5	9	7	7	6	6	7	5	7	6	7	7	8	7	4	5		5.8	8.7
5-Apr-06	6	5	4	5	4	4	3	3	3	4	7	7	8	10	13	15	14	14	14	12	10	9	10	13		8.1	15.1
6-Apr-06	11	10	10	12	12	10	10	7	6	7	8	7	7	7	8	6	8	3	11	13	13	11	12	5		9.0	13.5
7-Apr-06	6	3	3	3	2	2	3	4	4	6	7	6	7	7	7	7	7	7	7	8	8	7	9	10		5.9	10.0
8-Apr-06	11	9	9	6	3	5	6	5	5	6	6	6	6	7	6	7	9	7	6	4	4	3	3	3		5.8	10.9
9-Apr-06	5	8	9	15	15	13	10	12	20	20	18	24	24	23	20	24	24	28	28	27	20	18	15	13		18.0	28.4
10-Apr-06	14	10	7	4	6	5	4	4	9	14	19	17	14	12	11	11	9	10	8	5	3	8	10	6		9.2	18.6
11-Apr-06	6	4	5	6	5	4	6	8	9	10	10	9	12	10	10	7	7	7	5	7	4	9	7	3		7.0	12.2
12-Apr-06	5	7	7	7	4	3	4	5	10	12	11	9	8	19	10	6	8	19	26	20	14	11	16	24		11.1	26.1
13-Apr-06	28	22	15	13	14	15	14	9	11	18	21	26	22	21	21	17	17	14	11	11	8	8	7	7		15.4	27.9
14-Apr-06	6	7	6	5	7	7	7	5	6	7	7	6	39	36	26	21	17	15	13	11	12	10	7	9		12.2	39.0
15-Apr-06	8	5	9	10	9	5	4	4	5	9	12	12	12	13	11	8	11	7	14	5	7	5	4	5		8.1	13.9
16-Apr-06	5	3	3	3	3	3	4	4	4	4	4	5	6	5	6	8	9	10	7	5	7	13	10	11		5.9	13.3
17-Apr-06	9	8	6	4	5	8	7	8	9	16	18	16	22	22	29	28	28	29	27	26	13	7	5	7		14.8	29.0
18-Apr-06	7	6	7	7	6	5	4	5	8	13	13	13	11	8	8	10	12	11	14	8	5	5	4	4		8.1	13.9
19-Apr-06	3	4	5	6	7	8	8	7	8	14	16	17	14	12	11	13	12	14	13	10	11	10	6	4		9.7	16.7
20-Apr-06	5	5	6	5	5	3	4	7	6	3	5	5	5	9	20	22	19	17	16	15	12	11	8	11		9.3	21.7
21-Apr-06	12	11	15	14	12	12	10	12	13	16	18	18	15	20	20	17	17	18	17	18	20	18	17	17		15.7	20.2
22-Apr-06	17	17	15	13	15	18	18	18	20	18	17	16	14	13	9	9	8	6	8	9	5	6	7	6		12.6	19.9
23-Apr-06	5	5	6	4	3	4	4	5	5	5	6	5	7	6	8	7	6	7	8	6	7	9	8	8		6.0	8.9
24-Apr-06	6	5	5	5	2	4	3	3	7	7	6	5	4	5	5	6	5	5	6	8	8	7	6	7		5.5	8.2
25-Apr-06	8	11	5	6	3	3	3	4	5	7	7	10	17	12	15	23	29	28	28	22	9	8	6	7		11.5	28.9
26-Apr-06	5	5	5	3	4	3	5	4	8	9	5	7	6	9	14	15	15	16	22	18	10	10	20	17		9.9	21.9
27-Apr-06	13	14	10	10	11	14	13	20	27	27	30	27	24	24	24	24	24	22	20	12	4	6	8	8		17.4	30.4
28-Apr-06	5	5	5	6	5	4	6	7	10	15	20	17	16	14	9	8	10	17	20	22	12	11	13	14		11.2	22.1
29-Apr-06	20	20	23	27	25	23	20	20	17	15	7	7	8	7	7	6	7	13	15	11	7	10	11	12		14.1	27.0
30-Apr-06	14	9	7	8	7	6	8	12	15	15	13	13	11	13	12	10	10	10	12	10	7	6	6	9		10.2	15.1
1-hr Average	8.6	8.0	7.5	7.5	7.2	6.9	6.7	7.2	9.2	10.8	11.2	11.3	12.5	12.6	12.5	12.4	12.6	13.0	13.5	12.1	9.1	8.7	8.6	8.7			
Hourly Max	27.9	22.3	22.9	27.0	25.4	22.7	19.5	20.3	27.4	26.8	30.4	26.9	39.0	36.0	28.5	28.2	28.9	29.0	28.3	27.5	20.2	18.2	20.1	24.5			

# PASZA - Henry Pirker - Vector Wind Speed Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

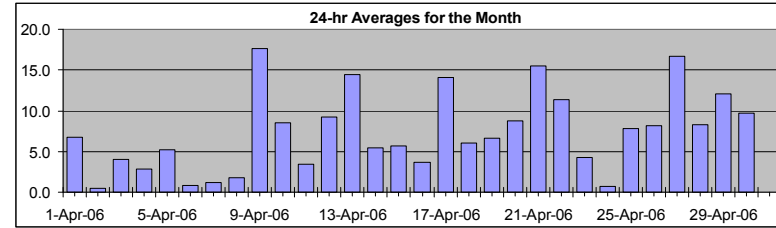
## Wind Speed (WSv)

Monitoring Dates: April 1, 2006 to May 1, 2006

### Summary

Maximum 1-hr Average:	38.6	km/hr	14-Apr	12:00 13:00
Maximum 24-hr Value:	17.6	km/hr	9-Apr	

Calm Time:	7 hrs	1% calms	Operational Time:	713 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	28.0	22.3	12.3	7.4	4.7	2.4	1.4	5.4 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-Apr-06	4	4	1	2	5	2	2	3	6	6	5	7	9	9	11	12	11	11	9	7	9	10	9	10	6.8	12.0	
2-Apr-06	8	8	7	5	4	4	4	3	5	4	4	2	calm	4	4	2	8	9	7	18	10	3	6	5	0.4	18.1	
3-Apr-06	3	5	3	3	5	4	3	2	7	8	9	11	13	13	13	11	8	7	3	4	3	3	3	3	4.0	13.2	
4-Apr-06	3	4	4	3	6	4	3	5	5	9	6	6	5	3	5	2	6	5	7	7	8	7	2	4	2.8	8.5	
5-Apr-06	6	5	4	3	4	2	3	2	1	1	6	6	8	10	12	15	14	14	14	12	10	9	10	13	5.2	14.7	
6-Apr-06	11	10	10	12	12	10	10	7	6	7	8	7	6	5	7	5	7	2	11	13	13	11	12	4	0.8	13.2	
7-Apr-06	6	2	3	3	2	2	1	3	4	6	7	5	5	6	4	6	6	7	7	8	7	7	9	10	1.2	9.9	
8-Apr-06	11	9	8	5	3	5	6	4	4	6	5	4	4	6	4	6	9	5	5	4	4	3	1	3	1.8	10.8	
9-Apr-06	4	8	9	14	15	13	10	12	19	19	17	23	23	22	20	24	24	28	28	27	20	18	15	13	17.6	28.2	
10-Apr-06	13	10	7	4	6	3	3	3	9	14	18	16	13	11	10	9	8	10	8	5	3	7	9	6	8.6	17.9	
11-Apr-06	5	4	5	6	5	4	6	8	8	9	9	7	10	6	9	6	5	6	5	calm	3	7	6	2	3.5	10.5	
12-Apr-06	5	7	7	7	4	2	2	4	10	11	10	7	7	8	9	3	8	15	26	20	14	11	16	24	9.2	25.9	
13-Apr-06	28	22	14	13	14	15	14	9	10	18	21	25	21	19	20	16	17	14	11	10	7	8	7	6	14.4	27.9	
14-Apr-06	6	7	6	5	7	6	7	5	6	7	7	1	39	36	26	20	17	15	13	11	12	10	7	9	5.5	38.6	
15-Apr-06	8	4	8	10	9	4	3	4	5	8	11	11	10	10	8	3	7	5	14	4	5	4	3	4	5.7	13.8	
16-Apr-06	5	2	1	1	2	1	3	4	4	3	3	4	3	calm	3	6	7	9	7	5	7	13	10	11	3.6	13.1	
17-Apr-06	9	8	3	3	3	8	7	8	9	15	18	15	20	21	28	28	28	29	27	26	13	7	5	6	14.0	28.6	
18-Apr-06	7	6	7	7	6	5	4	5	7	13	12	11	9	6	7	9	10	10	14	8	3	5	4	3	6.0	13.6	
19-Apr-06	3	4	5	6	7	8	7	7	8	13	15	16	13	9	9	9	11	13	12	10	11	10	6	3	6.6	16.4	
20-Apr-06	4	5	6	5	3	2	3	6	6	2	1	4	4	7	19	21	19	17	16	15	12	11	8	11	8.8	21.4	
21-Apr-06	12	11	15	14	12	12	10	11	13	15	18	17	15	20	20	17	17	17	17	18	20	18	16	17	15.5	20.2	
22-Apr-06	17	17	15	13	15	18	18	18	20	18	16	16	14	12	8	8	6	5	8	9	5	5	7	6	11.4	19.6	
23-Apr-06	5	5	6	4	3	4	4	5	4	5	4	5	3	6	5	4	5	8	6	6	7	9	8	8	4.2	8.8	
24-Apr-06	3	5	5	5	2	3	3	calm	7	7	6	4	calm	2	calm	4	2	4	6	8	8	7	6	7	0.7	8.2	
25-Apr-06	8	11	4	6	calm	3	2	4	4	7	6	8	16	12	14	22	28	28	28	22	9	8	6	7	7.9	28.4	
26-Apr-06	5	4	5	2	4	3	4	2	7	9	3	3	3	7	9	13	14	16	22	18	10	10	20	17	8.2	21.6	
27-Apr-06	12	14	10	10	11	14	13	19	27	26	30	26	23	23	23	23	24	22	20	12	3	5	8	8	16.7	29.9	
28-Apr-06	4	4	5	6	4	4	4	6	10	14	19	15	16	13	7	6	6	16	19	22	11	11	13	13	8.3	22.0	
29-Apr-06	20	20	23	27	25	22	19	20	17	14	5	6	7	6	5	4	5	12	14	10	6	10	11	12	12.1	26.9	
30-Apr-06	14	9	6	8	7	6	8	12	15	14	12	12	10	12	9	9	7	7	11	10	7	6	6	8	9.7	14.9	
1-hr Vector	3.5	3.0	2.8	2.9	2.9	3.3	2.8	3.7	5.7	7.5	7.6	7.7	8.0	8.5	7.6	7.1	7.7	8.0	8.5	7.5	4.4	4.1	3.6	3.8			
Hourly Max	27.9	22.2	22.6	26.9	25.3	22.4	19.2	20.1	27.2	26.1	29.9	26.2	38.6	35.7	28.0	27.8	28.4	28.6	28.2	27.4	20.2	18.2	20.0	24.4			

# PASZA - Henry Pirker - Wind Direction Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**


Calm Time: 0 hrs	0% calms	Operational Time: 720 hrs						
Calibration Time: 0 hrs		AMD Operational Uptime: 100.0%						
Percentile	99	95	75	50	25	5	1	Average
	343.3	319.9	280.3	241.3	160.6	56.5	20.8	256 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		
1-Apr-06	72	67	342	31	318	321	18	20	65	57	34	29	38	45	44	44	39	28	36	41	56	54	52	58	41	NE
2-Apr-06	51	60	76	62	44	58	97	139	128	97	123	151	140	234	307	352	277	305	285	252	290	334	186	182	313	NW
3-Apr-06	171	205	220	208	194	195	211	195	257	222	234	239	237	263	270	300	321	351	52	68	103	264	14	317	253	WSW
4-Apr-06	278	318	289	276	262	309	304	304	292	242	260	280	301	285	296	295	28	26	55	63	91	89	12	299	314	NW
5-Apr-06	316	344	313	290	358	313	311	311	233	225	121	100	73	74	79	79	62	69	99	111	119	102	85	89	78	ENE
6-Apr-06	78	83	80	79	85	86	86	100	144	205	215	228	251	304	325	337	341	262	246	242	261	271	273	266	250	WSW
7-Apr-06	306	336	348	311	305	168	316	279	265	232	225	207	226	245	235	302	337	25	38	55	59	69	75	71	329	NNW
8-Apr-06	77	84	89	96	105	98	109	104	105	125	105	121	153	154	283	284	332	309	226	293	303	323	171	295	100	E
9-Apr-06	300	283	283	263	263	260	246	258	266	251	246	245	252	258	241	253	254	257	267	267	273	278	279	274	261	W
10-Apr-06	257	234	240	312	234	240	267	251	249	246	256	253	257	245	263	258	272	301	315	306	286	249	233	245	258	WSW
11-Apr-06	283	245	251	243	242	246	250	242	240	233	250	270	287	284	324	341	346	78	104	299	88	162	111	36	267	W
12-Apr-06	32	323	346	273	268	231	209	207	235	241	255	247	193	258	324	235	163	245	264	247	245	238	240	250	251	WSW
13-Apr-06	247	243	234	229	229	231	241	221	205	235	247	238	223	232	236	219	218	227	212	187	209	204	149	143	227	SW
14-Apr-06	134	139	136	116	115	107	107	110	117	120	110	87	290	289	300	291	263	243	225	219	240	239	224	238	254	WSW
15-Apr-06	308	272	247	237	233	291	94	105	170	217	243	236	247	264	195	313	297	211	270	228	254	299	108	143	247	WSW
16-Apr-06	202	209	342	297	2	270	290	309	238	222	277	259	121	153	156	141	183	201	174	160	170	259	242	240	214	SW
17-Apr-06	229	230	262	195	175	202	183	250	243	239	229	232	243	237	253	256	253	258	252	247	241	227	206	181	241	WSW
18-Apr-06	169	167	154	157	172	197	152	149	151	175	197	222	206	237	161	237	222	241	248	260	289	290	292	116	205	SSW
19-Apr-06	113	121	128	105	101	104	108	123	131	168	172	169	146	163	150	163	225	216	233	246	246	235	261	239	175	S
20-Apr-06	293	336	340	317	322	297	338	312	317	300	15	322	240	306	308	329	320	327	328	312	304	318	293	292	316	NW
21-Apr-06	301	281	284	292	294	284	271	281	269	287	302	306	306	299	294	280	281	285	278	282	287	293	290	294	289	WNW
22-Apr-06	300	294	298	302	294	293	292	287	294	301	305	293	293	294	288	283	243	242	240	235	210	209	224	225	284	WNW
23-Apr-06	201	197	154	129	118	134	142	155	196	233	212	142	148	158	149	137	160	131	106	73	58	78	75	81	134	SE
24-Apr-06	114	307	299	293	288	298	318	315	211	205	173	222	282	50	235	305	351	32	53	82	83	83	78	71	25	NNE
25-Apr-06	78	83	128	117	2	6	173	155	239	231	213	269	254	256	272	262	258	273	271	271	292	308	300	321	266	W
26-Apr-06	301	292	284	330	141	198	239	311	288	325	328	154	239	251	292	248	272	270	263	248	228	230	247	248	260	W
27-Apr-06	262	244	237	227	230	242	233	263	279	272	264	259	266	265	267	260	264	267	268	273	251	218	203	244	259	W
28-Apr-06	215	111	104	144	135	171	163	168	223	219	221	207	181	170	156	120	197	212	226	244	264	283	264	268	211	SSW
29-Apr-06	270	276	302	303	297	283	259	274	293	300	285	242	189	207	238	201	205	259	252	220	210	236	246	248	268	W
30-Apr-06	249	269	263	254	247	277	248	246	248	262	258	249	229	248	243	239	259	290	284	285	284	267	275	304	260	W
Hourly Avg	267	265	274	266	259	258	240	251	249	243	243	241	245	256	267	268	267	266	261	256	259	261	251	258		N

## PASZA - Henry Pirker - Standard Deviation of Wind Direction Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

--

Determined by the Yamartino 15-min interval calculation

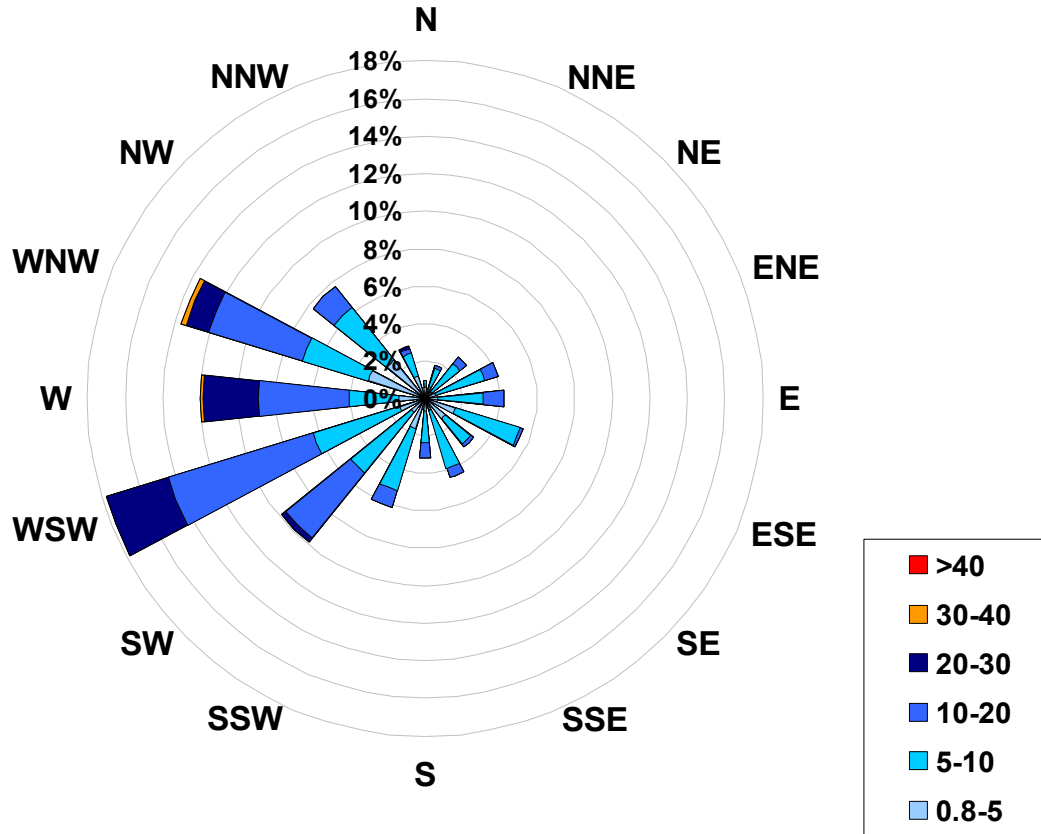
Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%
Percentile	99	95	75	50
	58.8	48.0	25.8	12.8
			7.6	4.4
				3.8

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	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-Apr-06	28	12	54	34	27	48	44	26	10	15	23	18	18	20	13	12	12	12	11	10	7	8	23	12	8	54.4
2-Apr-06	10	9	7	11	12	11	14	21	18	29	39	53	58	30	28	58	15	12	11	7	8	23	12	8	58.2	
3-Apr-06	35	10	25	15	13	41	28	40	19	12	9	13	13	17	22	16	24	13	16	12	45	31	51	48	51.1	
4-Apr-06	36	17	13	17	17	8	12	10	10	12	16	33	48	59	44	67	25	32	10	7	5	4	47	7	67.3	
5-Apr-06	7	10	35	17	8	24	17	44	50	46	28	27	23	15	13	13	13	10	9	6	7	6	4	5	49.7	
6-Apr-06	5	4	5	5	5	6	5	11	15	12	16	23	33	42	30	38	17	37	12	11	4	4	3	18	42.4	
7-Apr-06	14	38	21	19	31	28	26	47	27	13	17	32	41	33	48	37	36	21	13	8	6	10	6	5	48.4	
8-Apr-06	5	8	7	20	13	10	10	25	35	23	36	54	45	29	51	33	16	47	17	25	17	14	35	25	53.5	
9-Apr-06	12	11	15	5	5	6	9	7	8	8	10	12	12	12	11	9	7	6	4	3	4	4	3	3	15.1	
10-Apr-06	8	9	9	23	19	39	50	45	12	9	13	18	20	30	35	32	27	13	10	20	26	15	7	13	50.2	
11-Apr-06	16	19	16	13	13	15	9	7	9	12	15	32	29	60	40	52	40	35	20	49	26	34	25	47	59.7	
12-Apr-06	13	12	13	12	26	41	44	29	10	13	17	19	43	33	23	26	11	22	5	5	4	6	5	5	44.5	
13-Apr-06	9	4	6	12	8	6	5	12	17	11	13	10	12	14	14	15	11	9	9	9	10	6	14	8	17.3	
14-Apr-06	9	9	7	10	9	6	8	20	13	19	12	49	6	6	7	9	9	7	10	10	5	7	7	6	48.5	
15-Apr-06	8	29	8	5	7	38	17	15	24	14	18	17	27	19	32	32	26	39	8	17	17	17	42	13	41.8	
16-Apr-06	18	53	59	46	27	51	10	10	21	29	26	25	57	64	48	59	30	17	10	8	10	8	8	7	64.4	
17-Apr-06	7	6	28	36	21	7	13	14	11	10	14	18	17	14	9	8	10	9	8	4	4	9	14	8	36.0	
18-Apr-06	7	11	5	6	5	20	16	8	11	15	16	26	26	44	35	29	24	21	10	9	22	29	49	26	48.9	
19-Apr-06	20	16	14	6	6	6	7	10	10	13	14	10	20	34	26	30	26	17	11	8	5	11	30	25	34.0	
20-Apr-06	16	13	5	17	31	45	15	10	14	60	71	45	42	43	11	7	8	8	7	6	7	5	9	5	71.2	
21-Apr-06	6	6	4	5	5	5	8	7	9	8	6	6	7	6	6	7	7	6	4	4	4	4	4	4	9.4	
22-Apr-06	4	3	4	5	4	4	4	4	8	9	11	14	17	19	32	30	45	33	12	12	7	7	5	13	44.5	
23-Apr-06	17	9	7	8	11	8	6	8	19	20	28	54	52	57	37	49	43	32	14	10	7	4	4	5	57.2	
24-Apr-06	28	8	16	10	27	13	14	42	13	13	33	47	72	46	49	55	51	38	20	6	5	5	6	10	72.2	
25-Apr-06	8	4	21	12	41	38	22	19	18	18	35	29	14	18	17	14	9	7	4	5	7	5	13	7	40.5	
26-Apr-06	10	17	14	28	13	19	17	26	15	15	50	45	32	40	35	28	20	9	6	7	7	6	5	5	50.3	
27-Apr-06	7	5	7	6	7	5	6	7	6	11	9	11	15	12	11	12	10	9	6	6	37	15	6	29	37.1	
28-Apr-06	35	17	20	7	39	13	21	11	11	13	13	18	12	11	42	37	28	15	13	5	8	6	10	6	41.7	
29-Apr-06	4	4	6	4	4	4	7	6	7	11	24	23	30	38	44	47	40	12	9	15	14	9	6	8	47.3	
30-Apr-06	6	14	9	8	14	6	9	7	8	11	23	23	35	26	36	35	43	46	13	6	12	11	11	9	46.2	

Hourly Max	36	53	59	46	41	51	50	47	50	60	71	54	72	64	51	67	51	47	20	49	45	34	51	48
------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

1-hr Average Wind Rose (in km/hr) Located at the Henry Pirker Site for April 2006



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	143
5	to	10	305
10	to	20	211
20	to	30	58
30	to	40	3
	>	40	0
Total Non-Zero Values			720

# PASZA - Evergreen Park

## Monthly Summary Tables, Graphs, and Roses



# PASZA - Evergreen Park - Sulphur Dioxide Monthly Summary

Station: Evergreen Park  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

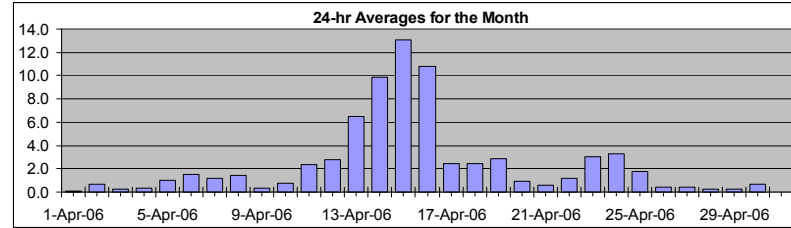
## Sulphur Dioxide (SO<sub>2</sub>)

Monitoring Dates: April 1, 2006 to May 1, 2006

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:	17.3 ppb 16-Apr 0:00 1:00
Maximum 24-hr Average:	13.1 ppb 15-Apr

AIC Time:	32 hrs	Operational Time:	674 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	98.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	14.9	11.0	2.8	0.9	0.0	0.0	0.0	2.5 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																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Apr-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0.1	0.6
2-Apr-06	0	0	0	0	0	0	0	0	1	0	0	1	3	A	3	2	2	2	1	0	0	0	0	0	0	0.7	2.9
3-Apr-06	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	1	1	1	0	0	0	0	0	0	0	0.3	1.0
4-Apr-06	0	0	0	0	1	1	1	0	0	0	0	A	1	1	1	1	1	1	1	0	0	0	0	0	0	0.4	0.9
5-Apr-06	0	0	0	0	0	0	0	0	0	0	A	4	3	2	3	2	2	2	2	1	2	0	0	0	0	1.0	3.8
6-Apr-06	1	1	2	3	2	2	1	1	2	A	2	2	2	2	2	2	1	1	1	1	0	0	0	0	1.5	2.7	
7-Apr-06	1	2	2	1	1	1	0	1	A	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1.2	1.9	
8-Apr-06	1	1	1	1	0	0	0	A	0	3	2	7	4	1	1	1	1	1	1	2	2	1	1	1	1.5	6.9	
9-Apr-06	1	1	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0.4	0.9	
10-Apr-06	0	0	0	0	0	A	0	0	0	0	0	1	1	1	1	2	1	1	1	1	1	1	1	1	0.7	1.6	
11-Apr-06	2	2	3	3	A	3	3	3	3	3	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2.3	3.3	
12-Apr-06	2	3	2	A	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	3	3	3	3	4	2.8	3.9	
13-Apr-06	4	5	A	5	5	5	5	6	6	6	6	6	6	6	6	7	8	8	8	9	8	8	8	8	6.5	9.0	
14-Apr-06	9	A	9	10	10	8	8	8	8	8	6	7	11	10	11	11	11	11	11	12	12	12	13	11	9.8	12.7	
15-Apr-06	A	15	13	14	14	12	10	9	8	9	11	12	14	14	15	15	15	14	14	14	16	15	15	A	13.1	15.6	
16-Apr-06	17	16	15	15	14	13	12	11	11	9	9	10	9	9	9	8	9	9	9	9	10	8	A	8	10.8	17.3	
17-Apr-06	8	8	7	9	7	6	5	3	0	0	1	1	1	0	0	0	0	0	0	0	0	A	0	0	2.5	8.9	
18-Apr-06	0	0	0	0	0	1	0	0	0	0	1	1	2	3	4	4	4	5	5	5	A	7	7	7	2.5	7.4	
19-Apr-06	8	7	7	7	4	5	7	4	2	3	C	C	C	A	0	0	0	0	0	0	0	0	1	1	2.9	8.0	
20-Apr-06	1	2	3	3	2	A	2	0	0	0	0	0	0	0	1	0	1	1	0	1	2	2	1	0	0.9	3.3	
21-Apr-06	1	1	1	0	A	1	0	0	0	1	0	0	0	0	0	0	0	1	2	2	2	1	1	0	0.6	2.1	
22-Apr-06	0	0	0	A	0	0	0	0	0	0	0	0	1	1	1	2	2	3	3	3	2	2	4	3	1.2	3.8	
23-Apr-06	3	1	A	0	D	D	D	0	3	5	5	5	5	5	4	4	3	3	3	3	3	2	1	1	3.1	5.4	
24-Apr-06	0	A	0	0	0	0	0	2	4	4	3	3	3	3	4	11	14	8	6	4	4	2	2	0	3.3	14.2	
25-Apr-06	A	0	0	0	D	D	D	0	1	2	2	3	3	2	2	3	3	3	3	2	2	2	1	A	1.8	3.2	
26-Apr-06	0	0	0	0	0	0	D	0	2	2	3	1	0	0	0	0	0	0	0	0	0	0	A	0	0.4	2.7	
27-Apr-06	0	0	0	0	0	0	0	0	0	1	0	0	2	1	1	1	1	0	1	1	1	A	0	0	0.5	1.6	
28-Apr-06	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	A	1	1	1	0.3	1.3	
29-Apr-06	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.3	1.5	
30-Apr-06	0	0	0	0	D	D	D	D	0	0	0	1	2	1	2	2	2	1	A	0	1	1	0	0	0.7	2.0	
Hourly Avg	2.2	2.4	2.4	2.6	2.6	2.4	2.3	1.8	1.9	2.1	2.1	2.6	2.8	2.5	2.7	2.9	3.0	2.8	2.8	2.7	2.6	2.6	2.3	1.9			
Hourly Max	17.3	16.3	14.6	14.9	14.0	12.6	11.6	10.6	10.9	9.5	11.0	12.3	14.0	14.1	14.6	14.7	15.1	14.0	13.7	14.5	15.6	14.9	15.1	11.1			

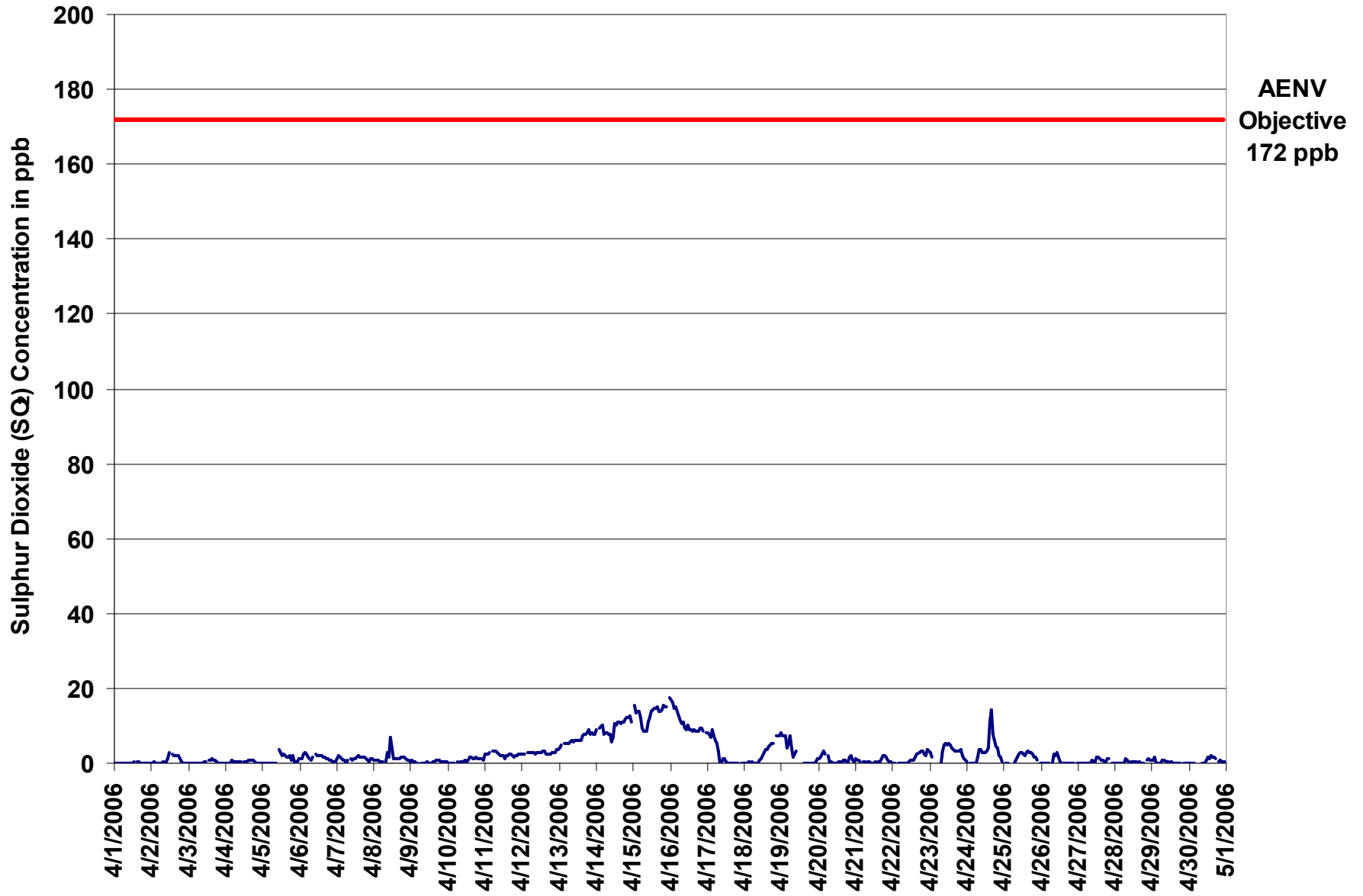


Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park  
 Station Owner: PASZA

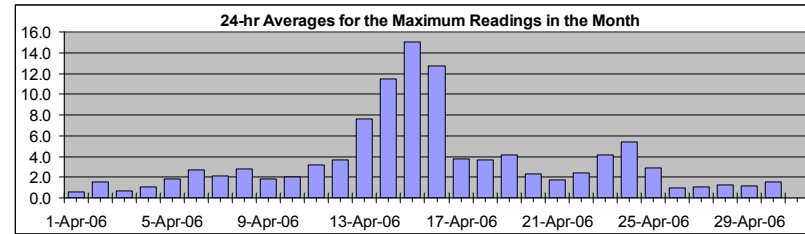
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Sulphur Dioxide (SO<sub>2</sub>)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Value:	29.3	ppb	24-Apr	15:00 16:00
Maximum 24-hr Value:	15.0	ppb	15-Apr	



AIC Time:	32 hrs	Operational Time:	674 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	98.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	17.1	12.7	4.1	2.2	1.0	0.0	0.0	3.6 ppb	2.2 ppb

**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-06	0	0	0	0	0	0	0	0	1	1	1	1	1	1	A	2	2	1	1	1	1	0	0	0	0.6	1.6
2-Apr-06	0	1	2	1	1	1	0	1	2	1	2	4	4	A	3	3	3	3	2	1	1	1	0	0	1.6	4.2
3-Apr-06	0	0	0	0	0	0	1	0	0	1	1	1	A	2	2	2	2	1	1	0	0	0	0	0.7	1.9	
4-Apr-06	0	0	0	1	2	1	2	1	1	1	2	A	1	1	2	2	2	2	1	1	0	0	0	1.1	2.2	
5-Apr-06	0	0	0	0	0	0	0	0	0	1	A	8	4	3	4	3	3	3	3	2	4	1	2	2	1.8	8.1
6-Apr-06	2	3	3	4	3	3	3	2	3	A	3	3	3	3	3	2	3	2	2	2	7	1	1	1	2.7	7.0
7-Apr-06	3	3	2	2	2	2	1	2	A	2	2	2	3	3	3	3	2	2	2	2	2	2	2	2	2.2	2.8
8-Apr-06	2	2	2	2	1	2	1	A	1	7	4	9	6	3	2	2	2	2	2	5	3	2	2	1	2.8	9.1
9-Apr-06	1	1	1	1	1	1	A	3	1	2	6	1	1	1	1	1	2	5	5	2	1	2	1	1.9	6.3	
10-Apr-06	1	1	1	1	1	A	2	1	1	1	1	9	1	2	2	2	2	2	2	2	2	4	2	2.0	9.0	
11-Apr-06	3	3	3	4	A	4	4	4	4	4	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3.2	4.3
12-Apr-06	3	3	3	A	4	4	4	4	4	3	4	3	4	4	4	4	3	3	3	4	3	4	4	5	3.7	4.6
13-Apr-06	5	6	A	6	6	6	6	7	7	7	7	7	7	7	7	8	9	9	9	10	10	9	10	9	7.6	10.3
14-Apr-06	10	A	11	12	12	9	10	10	10	10	7	10	12	12	12	12	12	12	12	13	14	13	15	13	11.4	15.1
15-Apr-06	A	17	17	15	16	15	12	10	11	11	13	15	15	15	15	16	16	16	16	17	17	17	18	A	15.0	17.7
16-Apr-06	19	19	18	17	16	16	16	13	14	14	12	12	11	10	9	9	9	10	10	11	10	10	A	9	12.7	19.1
17-Apr-06	9	9	10	11	11	10	7	5	3	2	3	2	2	1	1	1	0	0	0	0	0	A	0	0	3.7	10.8
18-Apr-06	0	0	2	3	1	2	2	1	0	1	2	2	3	4	4	5	5	6	6	7	A	8	9	8	3.6	9.2
19-Apr-06	9	10	9	9	6	8	8	8	4	5	C	C	C	A	0	0	0	0	1	0	1	2	2	3	4.1	9.9
20-Apr-06	3	3	4	4	6	A	6	2	1	1	2	1	0	2	2	1	2	2	2	2	2	3	3	1	2.3	5.7
21-Apr-06	2	2	2	2	A	2	1	1	1	2	1	1	1	1	1	1	1	3	3	3	3	2	2	2	1.7	3.0
22-Apr-06	1	1	1	A	1	1	1	5	2	1	1	1	2	2	2	3	3	4	4	4	3	4	5	4	2.4	4.7
23-Apr-06	4	3	A	0	D	D	D	1	5	6	6	6	6	6	5	5	4	4	4	4	5	3	3	3	4.1	6.4
24-Apr-06	2	A	0	0	0	0	0	3	5	4	4	4	4	4	5	29	24	9	7	6	5	3	3	2	5.4	29.3
25-Apr-06	A	0	0	0	D	D	D	0	3	3	3	4	4	4	4	4	5	4	5	4	3	3	2	A	2.9	4.9
26-Apr-06	0	0	0	0	0	0	0	D	1	4	3	4	3	1	1	0	0	0	1	0	0	1	A	0	0.9	3.8
27-Apr-06	0	0	0	0	0	0	0	0	1	1	1	2	3	3	2	2	2	2	2	3	2	A	1	0	1.1	2.9
28-Apr-06	1	0	0	0	0	1	1	3	2	1	2	1	1	1	2	1	1	1	1	1	A	2	3	2	1.2	3.5
29-Apr-06	2	2	3	1	0	0	2	2	2	1	1	1	4	1	1	1	1	1	1	A	0	0	0	0	1.2	3.6
30-Apr-06	0	0	0	0	D	D	D	D	0	0	1	3	2	3	4	3	3	2	A	2	2	2	1	1	1.5	3.5
Hourly Avg	3.0	3.1	3.3	3.4	3.6	3.5	3.7	3.2	3.1	3.4	3.5	4.2	3.8	3.6	3.7	4.4	4.2	3.9	3.9	3.8	3.8	3.6	3.4	2.7		
Hourly Max	19.1	19.1	17.6	17.4	16.4	15.8	15.6	13.3	13.5	13.6	12.7	14.5	15.0	15.3	15.5	29.3	24.0	16.5	16.2	16.7	16.8	16.9	17.7	13.1		

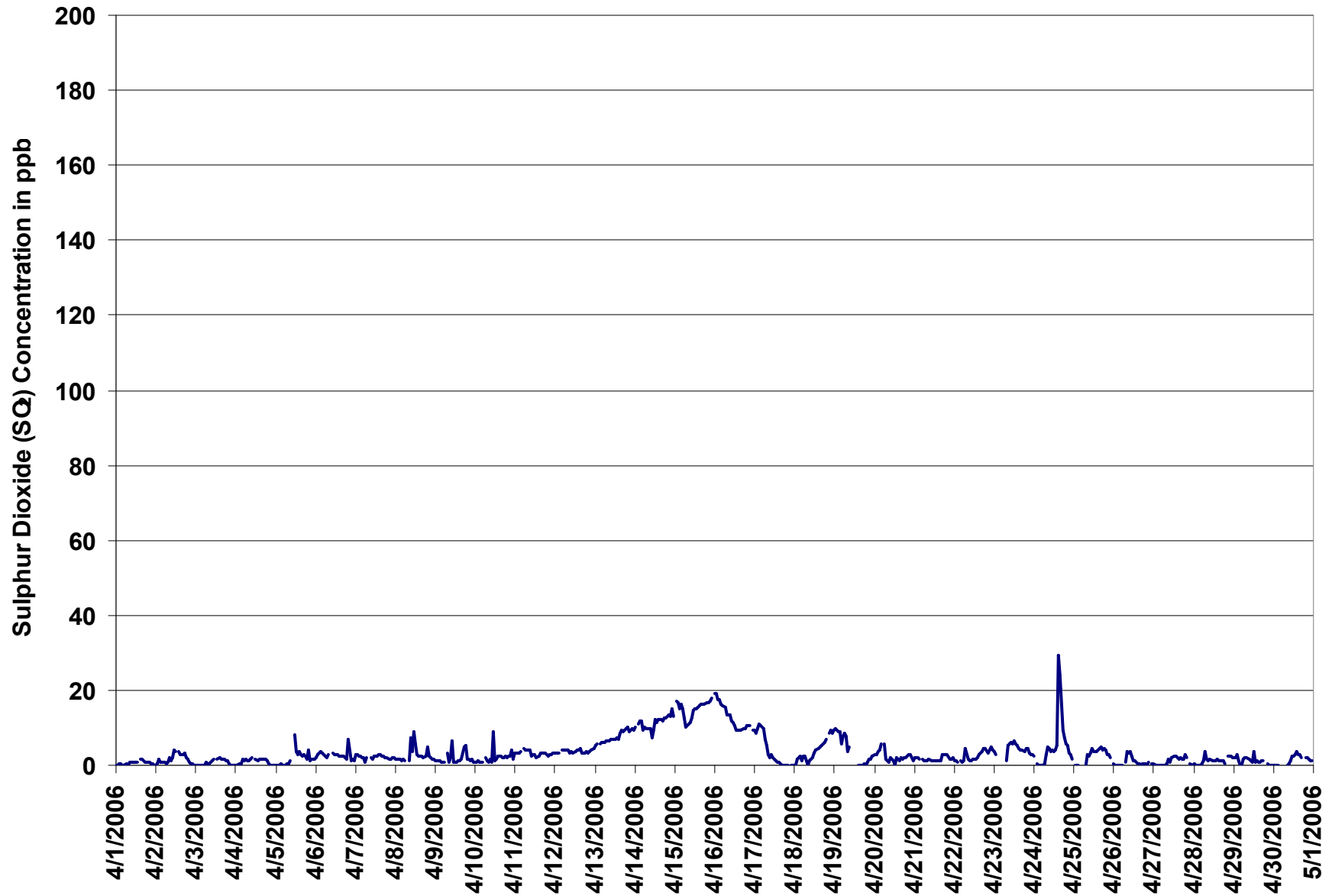
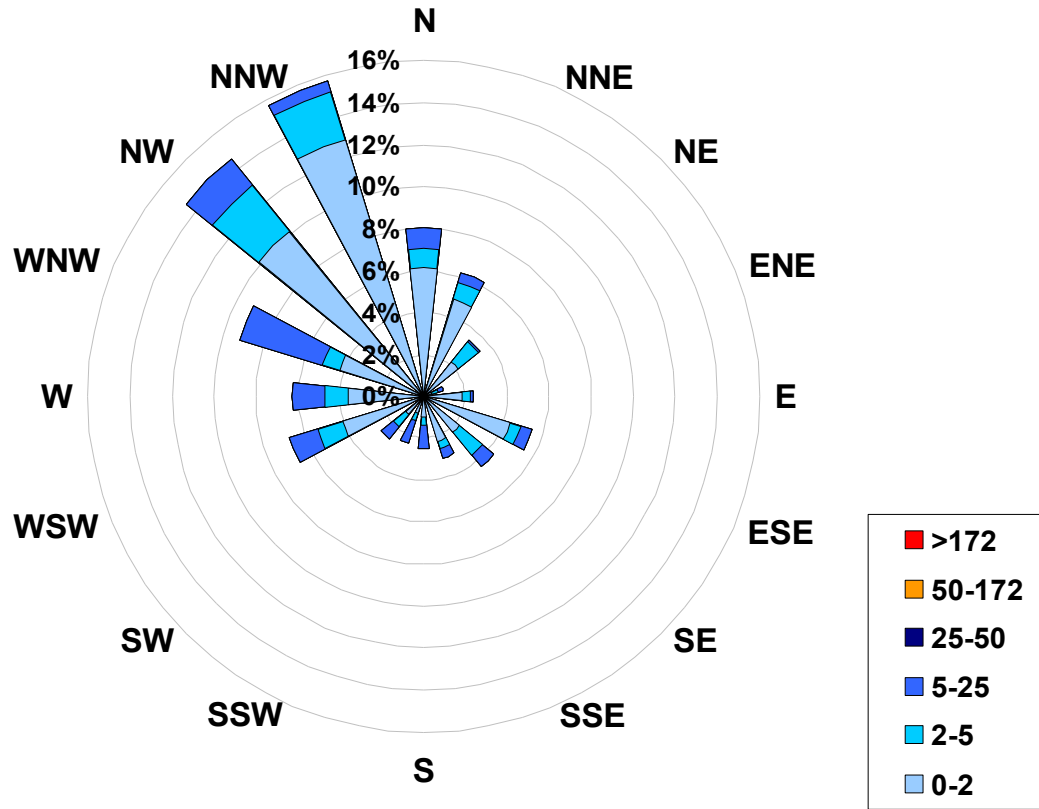


Figure 21. PASZA - Evergreen Park Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Evergreen Park Site for April 2006**



**Calms: 0%**

Frequency Distribution of SO <sub>2</sub> in ppb			Frequency (hrs)
Range			
0.0	< 2		444
2	to 5		115
5	to 25		115
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			674

## PASZA - Evergreen Park - Total Reduced Sulphur Monthly Summary

Station: Evergreen Park  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

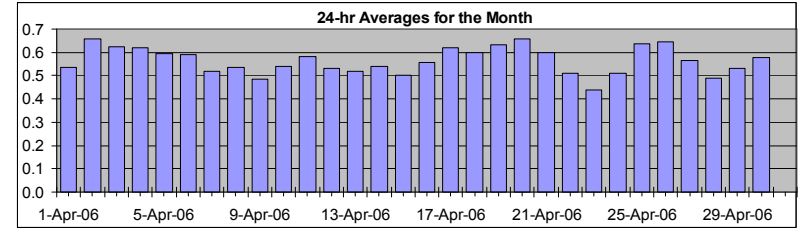
### Total Reduced Sulphur (TRS)

Monitoring Dates: April 1, 2006 to May 1, 2006

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

Summary			
Maximum 1-hr Average:	1.2	ppb	2-Apr 8:00 9:00
Maximum 24-hr Value:	0.7	ppb	20-Apr

AIC Time:	32 hrs	Operational Time:	685 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%
Percentile	99	95	75
	0.9	0.7	0.6
	0.6	0.5	0.4
	0.4	0.4	0.4
	Average		Median
	0.6 ppb		0.6 ppb



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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	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	
1-Apr-06	0	0	1	1	1	1	1	1	1	1	1	1	1	0	A	1	1	1	1	1	1	1	1	1	1	0	0.5	0.6
2-Apr-06	1	1	1	1	1	1	1	0	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.2
3-Apr-06	1	1	1	0	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
4-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0	1	1	1	1	0.6	0.9
5-Apr-06	1	1	1	1	1	1	1	1	1	1	0	A	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
6-Apr-06	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	1	0.6	0.7
7-Apr-06	1	1	1	1	1	1	1	1	A	1	0	1	1	1	1	1	0	0	1	0	0	1	0	0	1	0	0.5	0.6
8-Apr-06	1	0	0	0	0	0	0	A	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0.5	0.9
9-Apr-06	1	1	0	1	1	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.5	0.8
10-Apr-06	1	1	1	0	0	A	0	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5	0.6
11-Apr-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	0.6	0.7
12-Apr-06	1	0	1	A	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	0	1	0	0	0	1	1	0.5	0.6
13-Apr-06	1	1	A	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0.5	0.6
14-Apr-06	0	A	0	0	0	0	1	0	1	1	1	1	1	1	1	1	0	1	0	1	0	1	1	1	0	1	0.5	0.9
15-Apr-06	A	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	1	0	A	1	0.5	0.6
16-Apr-06	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	A	1	1	0.6	0.7
17-Apr-06	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.6	0.9
18-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	A	1	1	1	1	0.6	0.8
19-Apr-06	1	1	1	0	1	0	0	1	1	1	C	C	C	A	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
20-Apr-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1
21-Apr-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
22-Apr-06	1	1	1	A	1	1	1	1	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0.5	0.6
23-Apr-06	0	0	A	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
24-Apr-06	0	A	0	0	1	1	1	1	0	0	0	0	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0.5	0.7
25-Apr-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	A	1	0.6	1.1
26-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.6	0.8
27-Apr-06	1	0	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	1	1	1	1	A	1	0	1	0.6	1.0
28-Apr-06	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	0	0	A	1	1	1	1	1	0.5	0.7
29-Apr-06	1	1	1	0	0	1	1	1	1	1	0	0	0	1	1	0	1	1	1	A	1	1	1	1	0	1	0.5	0.6
30-Apr-06	0	1	0	0	1	1	1	1	1	0	1	0	1	0	1	0	1	1	A	1	1	1	1	1	1	1	0.6	0.8
Hourly Avg	0.5	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.5	0.5		
Hourly Max	0.7	0.9	0.8	0.8	1.0	0.8	1.1	1.1	1.2	0.9	0.8	0.9	0.9	0.7	0.8	0.7	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.7	0.7			

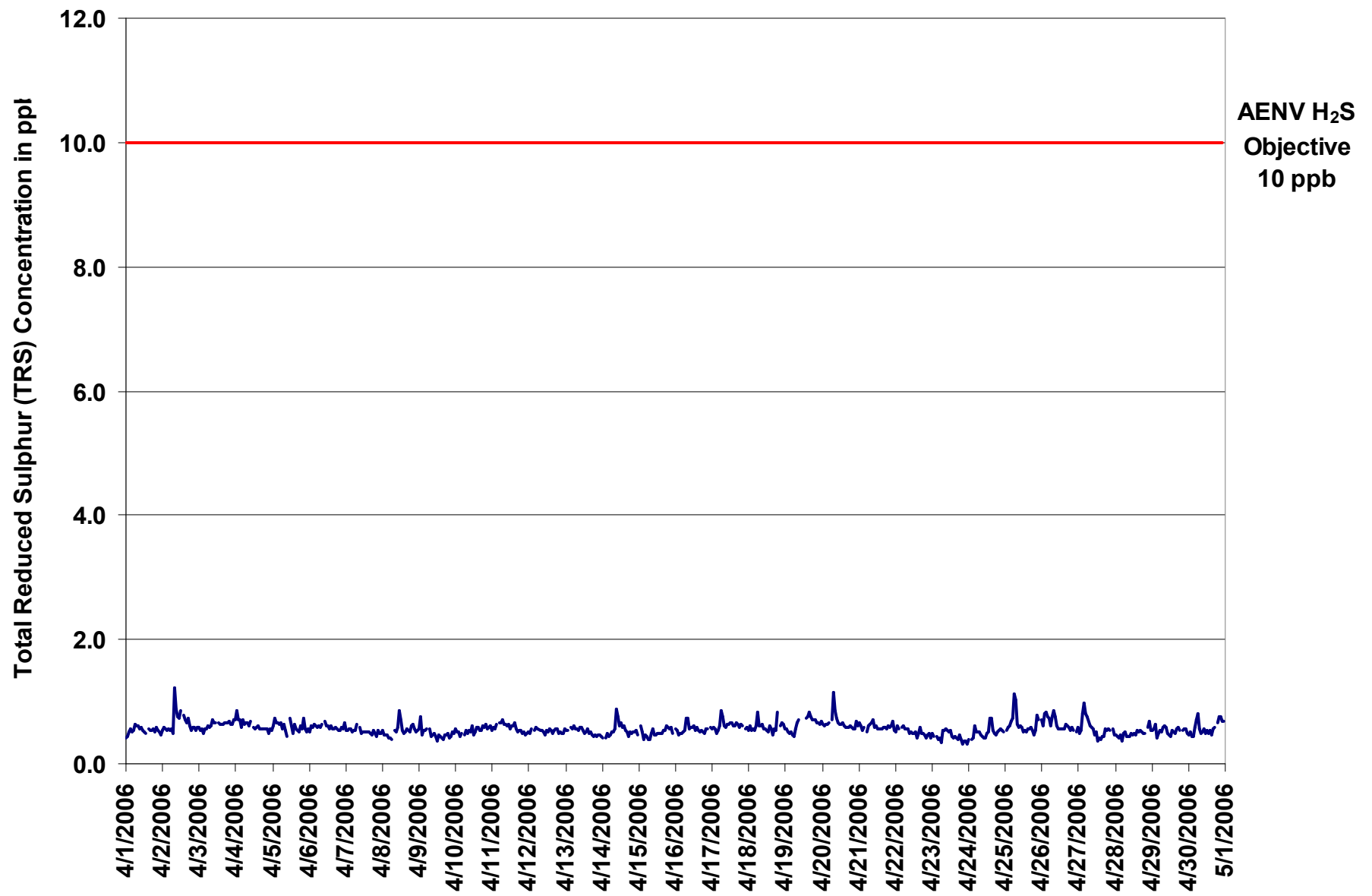


Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

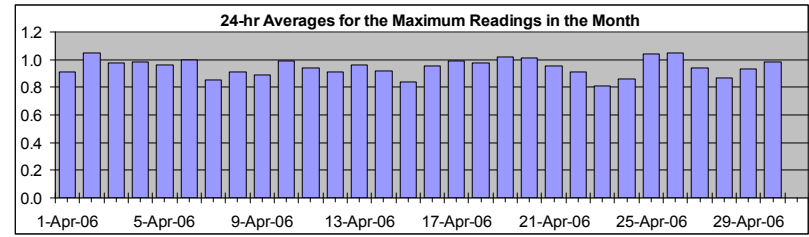
**Total Reduced Sulphur (TRS)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Value:	2.5	ppb	10-Apr	11:00 12:00
Maximum 24-hr Value:	1.0	ppb	26-Apr	

AIC Time:	32 hrs	Operational Time:	685 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.6	1.2	1.0	0.9	0.8	0.8	0.7	0.9 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																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0.9	1.1
2-Apr-06	1	1	1	1	1	1	1	1	2	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1.0	2.3
3-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.1
4-Apr-06	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	1.4
5-Apr-06	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	1.0	1.2
6-Apr-06	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1.0	1.5
7-Apr-06	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.0
8-Apr-06	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	0.9	1.3
9-Apr-06	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	0.9	1.3
10-Apr-06	1	1	1	1	1	A	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.5
11-Apr-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
12-Apr-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
13-Apr-06	1	1	A	1	1	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1.0	1.9
14-Apr-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.4
15-Apr-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	1.0
16-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.0	1.3
17-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1.0	1.4
18-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	A	1	1	1	1	1.0	1.7
19-Apr-06	1	1	1	1	1	1	1	1	1	1	C	C	C	A	1	1	1	1	1	1	1	1	1	1	1	1.0	1.2
20-Apr-06	1	1	1	1	1	A	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.6
21-Apr-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.1
22-Apr-06	1	1	1	A	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.5
23-Apr-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	0.9
24-Apr-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
25-Apr-06	A	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.0	1.8
26-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.0	1.5
27-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.9	1.4
28-Apr-06	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	0.9	1.3
29-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.9	1.2
30-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1.0	1.5
Hourly Avg	0.9	1.0	0.9	0.9	0.9	1.0	1.0	1.1	1.0	1.0	0.9	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.9	0.9	0.9	0.9		
Hourly Max	1.2	1.4	1.3	1.2	1.4	1.9	1.8	1.8	2.3	1.4	1.3	2.5	1.2	1.3	1.1	1.2	1.9	1.2	1.1	1.7	1.5	1.5	1.3	1.1	1.1		



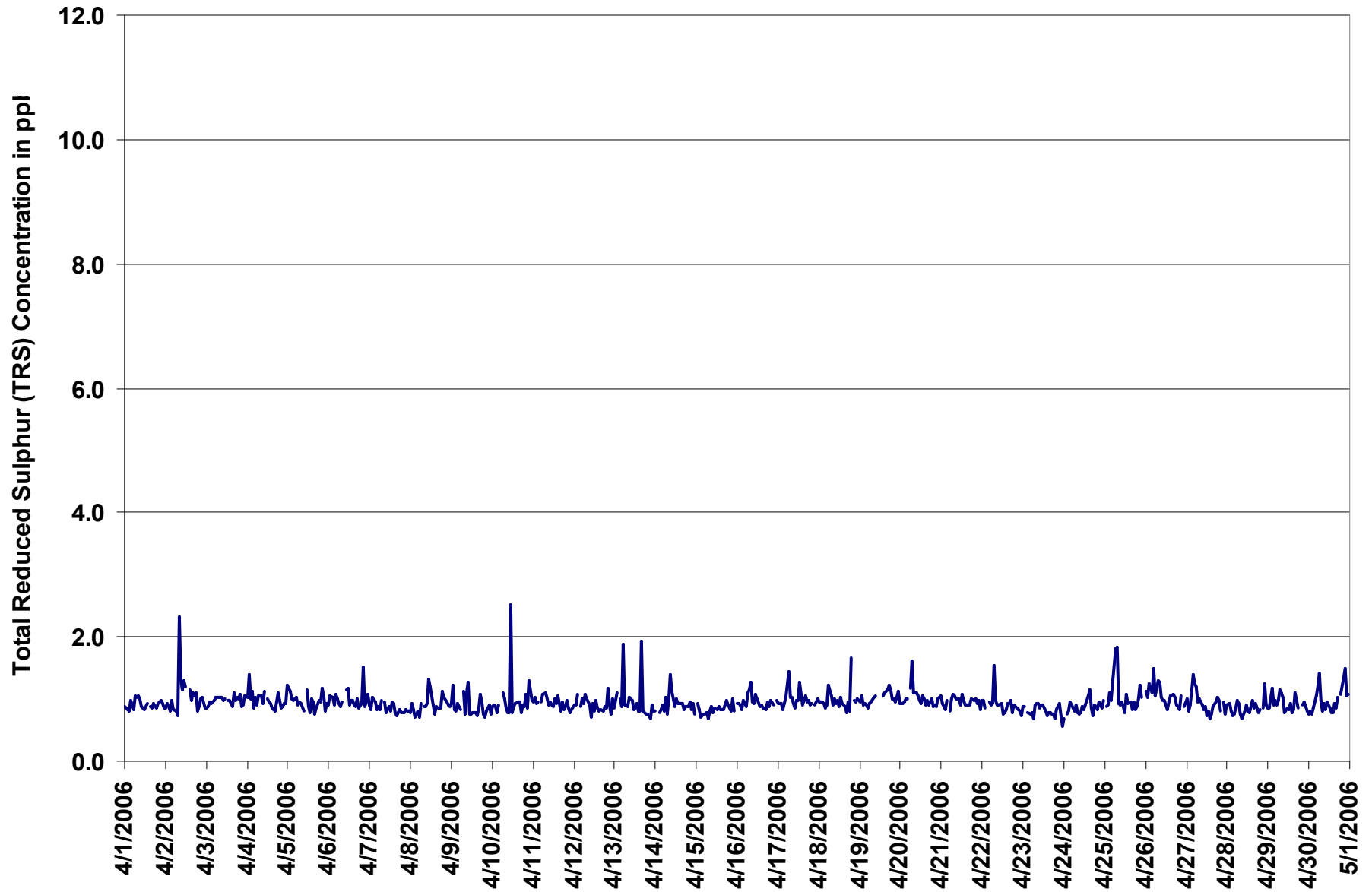
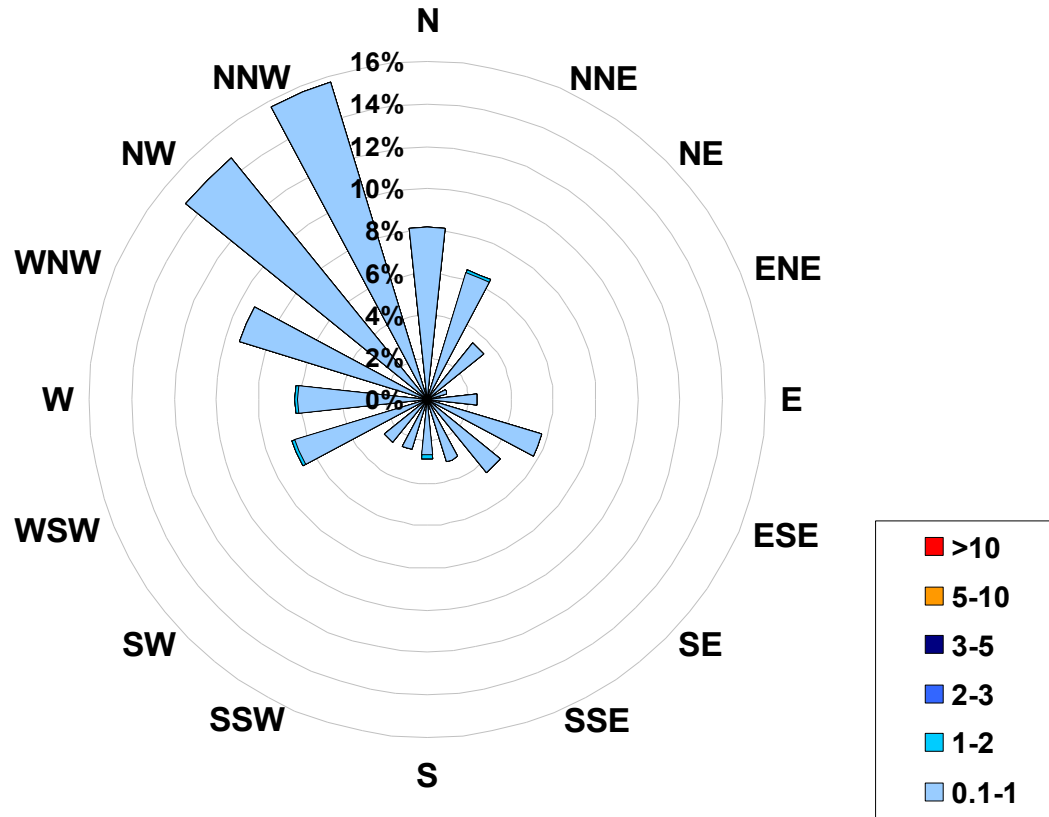


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)  
Located at the Evergreen Park Site for April 2006**



**Calms: 0%**

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	681
1	to	2	4
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			685

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

Station: Evergreen Park  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

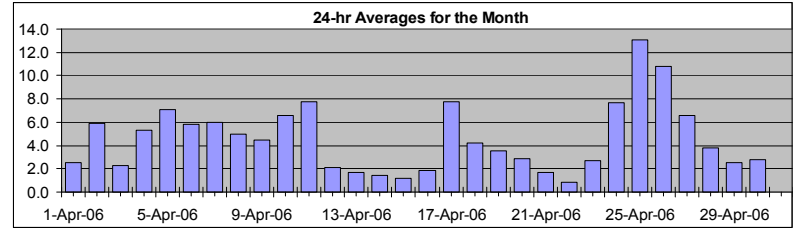
### Particulate Matter (PM<sub>2.5</sub>)

Monitoring Dates: April 1, 2006 to May 1, 2006

Draft Objective Limit: Alberta Environment: 1-hr -  $\mu\text{g}/\text{m}^3$  24-hr 30  $\mu\text{g}/\text{m}^3$   
 Summary

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	36.6 $\mu\text{g}/\text{m}^3$ 17-Apr 15:00 16:00
Maximum 24-hr Value:	13.1 $\mu\text{g}/\text{m}^3$ 25-Apr

AIC Time:	0 hrs	Operational Time:	712 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	99.6%
Percentile	99	95	75
	21.1	13.6	6.5
	50	25	5
	3.1	1.2	0.0
	5	1	Average / Median
	0.0	0.0	4.6
			3 $\mu\text{g}/\text{m}^3$
			Geomean
			3.7 $\mu\text{g}/\text{m}^3$



#### Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	Hour End	0:00	1:00	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-Apr-06	2	1	2	2	4	7	5	9	3	2	1	1	2	1	2	2	2	2	2	2	1	3	2	2	1	1	2.5	8.6
2-Apr-06	2	1	3	5	5	6	4	5	9	6	7	4	9	8	10	7	9	12	17	12	1	0	0	0	0	5.9	16.8	
3-Apr-06	0	0	0	0	0	0	1	7	2	2	1	0	1	0	1	2	3	4	3	3	4	6	6	9	2.3	9.5		
4-Apr-06	11	11	7	3	2	3	9	11	6	9	5	4	2	2	4	4	2	3	3	3	4	3	6	9	5.3	11.4		
5-Apr-06	10	11	9	8	7	9	10	18	15	11	13	7	3	3	2	0	3	4	6	5	6	4	3	2	7.1	18.0		
6-Apr-06	2	3	4	5	5	5	5	6	6	5	9	9	9	3	4	7	7	6	8	7	9	7	3	6	5.8	9.1		
7-Apr-06	4	3	4	4	4	9	7	31	19	11	8	4	4	3	4	2	2	2	2	3	5	4	3	2	6.0	30.7		
8-Apr-06	1	2	2	2	3	2	3	3	3	2	3	4	3	1	1	3	4	7	6	7	16	14	13	14	5.0	16.5		
9-Apr-06	13	12	5	2	0	0	4	2	0	1	0	12	8	11	4	4	4	6	6	4	2	2	1	1	4.5	13.5		
10-Apr-06	0	0	0	0	1	3	4	11	19	18	16	7	9	4	4	8	7	3	3	6	15	11	6	4	6.6	18.8		
11-Apr-06	3	3	4	4	3	4	26	24	18	14	12	3	10	10	1	1	2	3	7	11	12	5	1	6	7.7	25.5		
12-Apr-06	3	4	2	6	3	1	4	6	5	3	0	0	0	6	2	0	0	D	2	0	1	0	0	0	2.1	6.3		
13-Apr-06	0	1	0	0	0	1	1	0	0	1	4	9	6	2	3	2	4	1	1	1	2	0	0	0	1.7	9.4		
14-Apr-06	0	1	0	0	1	1	1	3	2	0	1	0	19	3	0	0	0	0	0	1	0	1	1	0	1.5	18.8		
15-Apr-06	1	1	1	1	1	1	2	1	0	0	0	0	0	2	1	0	5	1	2	1	2	2	0	2	1.2	4.6		
16-Apr-06	4	3	2	1	1	2	4	10	0	0	1	1	0	0	0	1	2	1	1	2	3	2	2	2	1.8	9.7		
17-Apr-06	3	1	0	1	3	3	6	5	6	7	9	8	10	12	16	37	25	11	13	6	2	3	1	1	7.8	36.6		
18-Apr-06	1	0	1	1	1	4	7	4	0	4	0	1	0	0	0	2	4	4	6	11	10	14	15	11	4.2	15.2		
19-Apr-06	7	5	4	3	2	3	5	5	2	2	C	C	C	C	C	0	0	0	2	11	5	3	1	3.5	11.2			
20-Apr-06	3	1	2	3	5	2	6	12	8	1	0	0	2	4	5	4	3	2	2	0	3	0	2	0	2.9	12.0		
21-Apr-06	0	0	0	0	0	0	5	2	5	2	0	1	0	2	3	3	4	5	2	3	1	0	1	0	1.6	5.0		
22-Apr-06	0	0	0	1	1	0	1	2	0	0	0	0	1	1	1	0	0	0	1	2	3	3	2	4	0.9	3.9		
23-Apr-06	5	3	3	2	4	2	6	2	0	0	0	0	0	0	0	1	2	3	4	9	5	5	4	4	2.7	8.9		
24-Apr-06	4	7	6	5	5	6	9	8	8	7	6	4	1	2	11	8	12	9	7	11	14	13	11	12	7.7	14.1		
25-Apr-06	10	9	13	11	11	13	17	19	16	10	11	8	10	7	7	26	35	16	8	12	12	11	12	10	13.1	35.1		
26-Apr-06	16	15	13	13	11	12	13	13	14	13	5	9	8	15	12	14	16	13	11	11	4	5	0	1	10.8	16.5		
27-Apr-06	1	1	1	1	2	3	7	5	1	14	11	6	5	7	10	7	9	6	6	5	10	21	13	5	6.5	21.3		
28-Apr-06	3	2	3	3	5	7	12	6	3	1	1	1	2	1	1	1	3	4	4	7	4	8	7	5	3.8	11.6		
29-Apr-06	3	6	0	D	0	D	2	2	5	3	1	0	1	0	2	2	2	6	7	5	2	3	2	1	2.5	6.6		
30-Apr-06	2	2	1	1	2	3	3	2	1	0	0	0	0	0	2	2	2	2	4	5	10	12	5	4	2.8	12.2		
Hourly Avg	3.9	3.7	3.1	3.0	3.1	3.8	6.3	7.8	6.0	5.0	4.2	3.6	4.2	3.8	4.0	5.3	5.8	4.7	4.7	5.2	5.9	5.6	4.2	3.8				
Hourly Max	16.4	14.9	13.2	13.1	10.8	12.5	25.5	30.7	19.4	18.1	15.6	11.9	18.8	15.1	16.2	36.6	35.1	16.3	16.8	12.4	16.5	21.3	15.2	14.3				

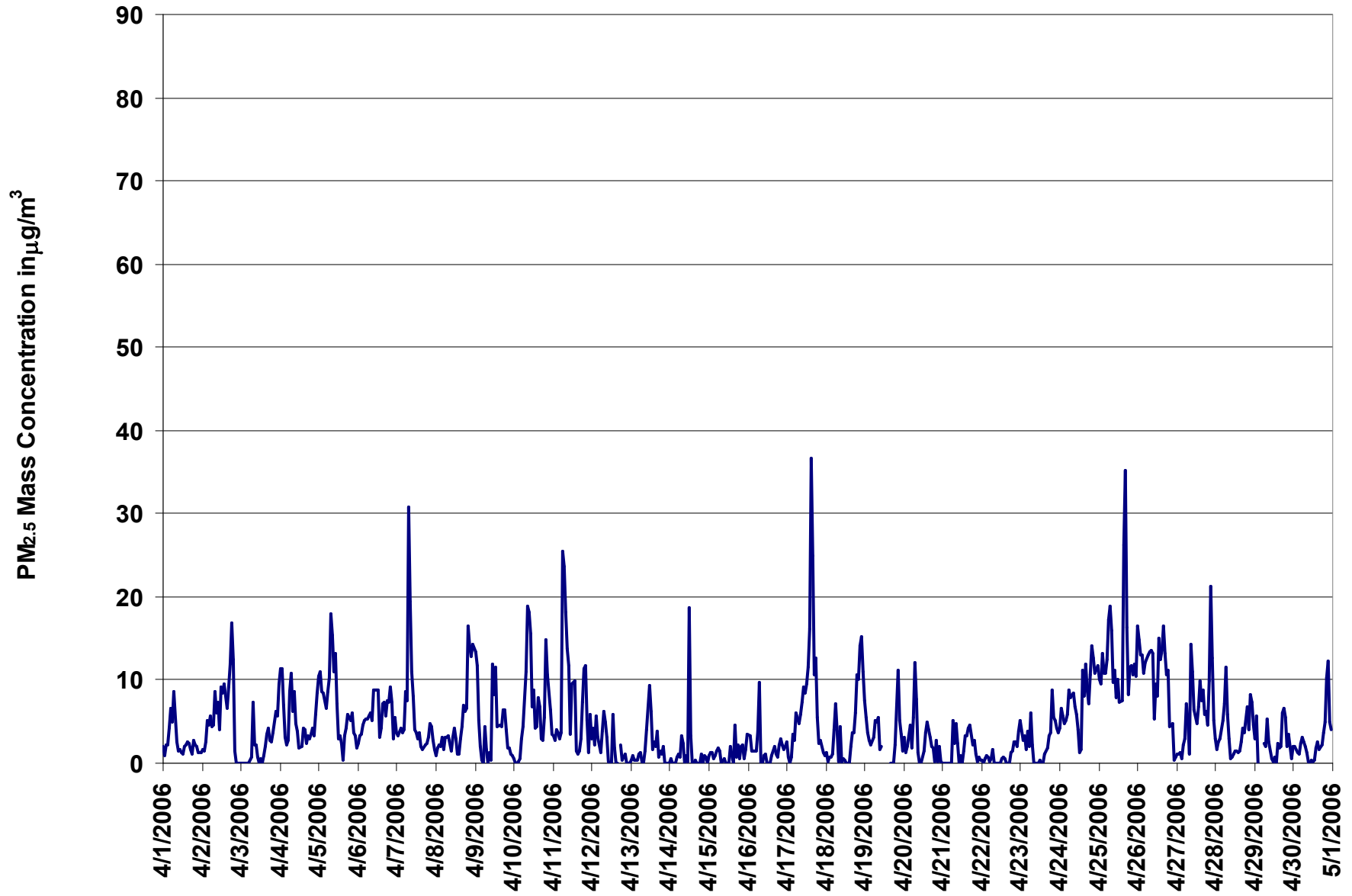


Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park  
 Station Owner: PASZA

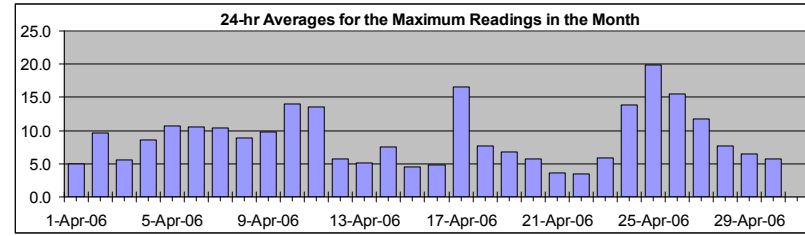
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Particulate Matter (PM<sub>2.5</sub>)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Average:	76.3	µg/m <sup>3</sup>	14-Apr	12:00 13:00
Maximum 24-hr Value:	19.9	µg/m <sup>3</sup>	25-Apr	



AIC Time:	0 hrs	Operational Time:	712 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	41.9	23.1	11.5	6.2	3.7	1.6	0.9	8.9	6 µg/m <sup>3</sup>
									8.0 µg/m <sup>3</sup>

**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-06	4	3	5	4	7	10	7	13	10	3	4	4	4	4	5	5	5	3	4	4	3	3	3	2	5.0	13.4
2-Apr-06	3	3	4	11	11	8	8	7	15	10	11	8	12	12	12	9	18	15	23	21	6	3	1	2	9.6	22.9
3-Apr-06	3	4	2	2	3	2	4	13	7	5	5	3	3	3	7	9	8	5	4	7	9	9	13	5.5	13.4	
4-Apr-06	17	13	9	5	4	4	14	21	11	13	8	6	7	4	8	10	4	5	4	6	6	5	10	11	8.6	21.0
5-Apr-06	18	15	11	12	9	13	13	30	21	14	22	12	6	6	4	4	7	7	7	6	8	5	4	4	10.7	30.1
6-Apr-06	4	5	5	7	6	7	7	8	9	8	12	13	12	7	10	21	16	8	14	13	29	15	6	10	10.5	29.0
7-Apr-06	5	6	7	5	6	20	12	55	28	16	13	8	9	6	8	6	5	5	5	5	6	6	6	3	10.4	55.1
8-Apr-06	2	4	4	6	5	4	8	10	8	3	7	7	6	3	3	5	7	13	14	18	20	21	20	17	8.9	20.9
9-Apr-06	15	19	7	6	4	2	7	6	1	5	5	36	14	31	9	6	7	11	18	13	3	3	2	2	9.8	36.2
10-Apr-06	2	1	1	1	2	9	11	28	41	31	26	19	17	11	16	15	14	8	7	10	26	25	10	5	14.0	41.3
11-Apr-06	4	4	5	5	5	6	42	33	24	23	19	9	19	18	6	5	3	5	10	17	18	24	7	12	13.5	42.0
12-Apr-06	6	7	4	8	7	8	6	12	10	6	3	1	3	12	5	6	6	D	5	7	2	2	1	3	5.7	11.9
13-Apr-06	3	2	1	1	2	4	3	1	2	4	9	20	17	7	8	5	10	3	4	4	9	2	1	0	5.1	19.8
14-Apr-06	2	3	1	3	3	3	3	7	10	2	3	33	76	5	5	2	4	2	1	4	5	3	2	1	7.6	76.3
15-Apr-06	4	2	2	2	2	4	4	5	3	2	1	2	2	11	4	6	17	9	5	3	4	6	5	3	4.5	16.6
16-Apr-06	6	7	4	3	3	4	8	14	7	2	5	3	2	2	1	4	10	5	4	5	5	5	4	3	4.9	14.2
17-Apr-06	4	2	2	2	10	7	11	11	12	12	19	19	16	21	35	55	62	19	42	23	4	5	2	2	16.6	61.8
18-Apr-06	3	1	2	2	2	5	11	9	5	13	1	3	4	2	4	7	8	6	9	17	19	20	20	14	7.7	20.3
19-Apr-06	10	8	6	5	5	5	7	8	9	5	4	C	C	C	C	C	2	3	1	6	30	7	5	3	6.8	30.3
20-Apr-06	6	4	5	5	7	6	10	16	14	4	2	3	5	7	8	7	7	4	4	2	6	3	4	2	5.8	16.1
21-Apr-06	2	2	1	2	1	2	8	4	7	5	1	3	1	5	5	5	8	7	5	5	4	2	2	2	3.7	7.5
22-Apr-06	2	0	2	2	3	2	3	5	4	2	4	3	4	3	2	2	2	2	7	4	5	6	4	8	3.4	8.3
23-Apr-06	8	4	5	3	8	4	9	9	1	1	1	1	5	4	3	4	5	6	8	17	14	8	7	6	5.9	17.1
24-Apr-06	7	13	9	9	8	8	13	13	10	9	8	8	7	22	43	18	16	13	11	20	20	20	15	15	13.8	42.8
25-Apr-06	16	14	19	16	15	17	27	35	21	17	15	15	13	12	14	41	60	27	14	15	14	14	15	14	19.9	60.0
26-Apr-06	21	18	17	16	13	17	22	21	17	20	8	12	11	31	21	21	24	18	13	14	6	6	3	2	15.5	31.4
27-Apr-06	3	3	3	2	4	6	10	9	5	31	23	13	8	10	16	12	12	8	13	9	22	26	27	8	11.8	30.8
28-Apr-06	8	10	8	7	10	12	16	12	5	3	5	3	5	6	5	4	8	7	5	11	8	11	9	7	7.7	15.8
29-Apr-06	5	9	10	D	2	D	11	5	8	6	5	4	5	2	7	4	5	14	13	7	6	7	4	4	6.5	13.7
30-Apr-06	6	4	3	3	3	5	4	6	5	5	3	3	2	3	4	4	4	5	6	10	19	17	8	5	5.8	19.1
Hourly Avg	6.5	6.4	5.4	5.3	5.7	6.9	10.6	14.2	11.1	9.3	8.4	9.4	10.1	9.3	9.5	10.3	12.1	8.5	9.4	10.0	11.1	9.7	7.2	6.2		
Hourly Max	20.5	19.4	19.0	16.0	14.8	19.8	42.0	55.1	41.3	30.8	26.5	36.2	76.3	31.4	42.8	54.6	61.8	26.9	42.2	23.3	30.3	25.8	26.8	17.3		

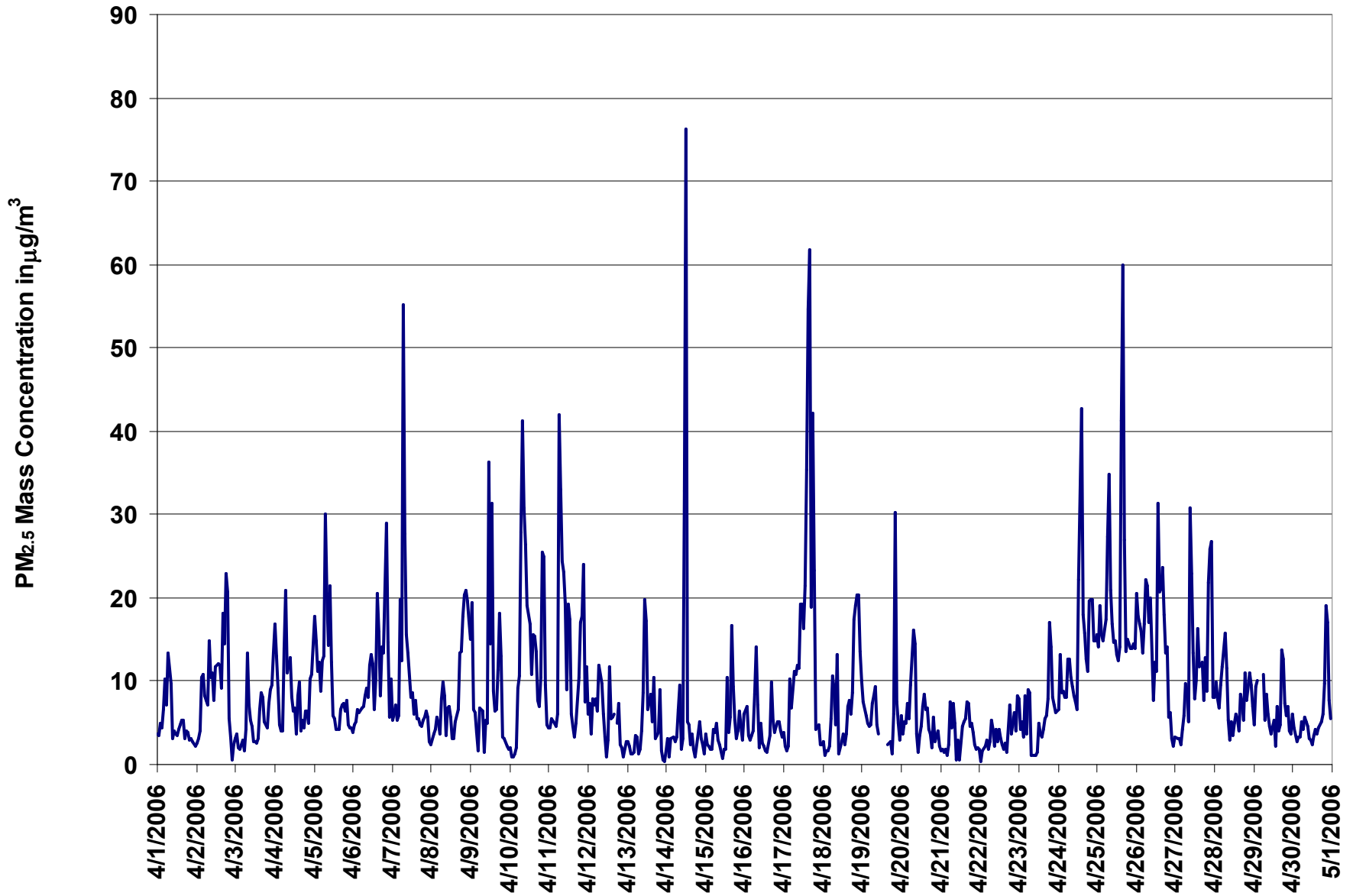
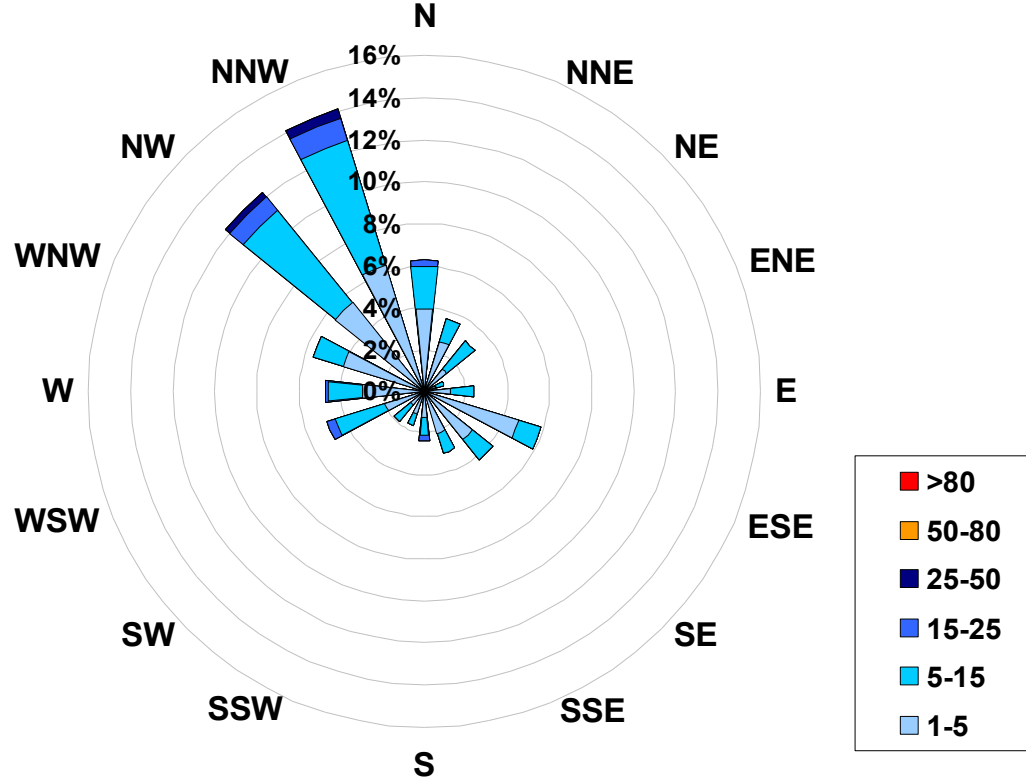


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

**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 April 2006**



**Calms: 0%**

Frequency Distribution of PM <sub>2.5</sub> in µg/m <sup>3</sup>			Frequency (hrs)
Range			
1.0	<	5	471
5	to	15	214
15	to	25	22
25	to	50	5
50	to	80	0
	>	80	0
Total Non-Zero Values			712

# PASZA - Evergreen Park - Temperature Monthly Summary

Station: Evergreen Park  
 Station Owner: PASZA

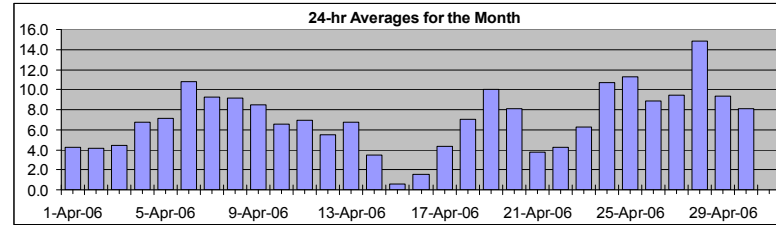
## HOURLY AVERAGE TABLE

## Ambient Temperature (T)

Monitoring Dates: April 1, 2006 to May 1, 2006

### Summary

Maximum 1-hr Average:	24.4	°C	28-Apr	16:00 17:00
Maximum 24-hr Average:	14.8	°C	28-Apr	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	22.7	17.8	11.6	6.9	2.2	-2.8	-5.4	7.1 °C	6.9 °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-Apr-06	2	2	1	-1	-3	-3	-3	-1	2	4	5	7	9	10	11	11	10	10	8	6	4	4	3	2	4.2	10.6	
2-Apr-06	2	1	0	-2	-2	-3	-3	-1	3	4	5	7	9	10	11	12	12	11	11	7	5	3	1	0	4.2	12.1	
3-Apr-06	0	-2	-2	-3	-3	-4	-4	-2	2	4	6	9	11	13	13	14	14	14	12	9	5	2	0	-1	4.4	14.1	
4-Apr-06	-2	0	2	3	2	1	0	2	5	7	10	11	13	14	14	15	15	15	14	11	7	3	1	-1	6.7	15.1	
5-Apr-06	-1	-2	-3	-3	-3	-4	-4	-1	3	5	8	10	13	14	17	17	17	16	16	14	12	11	10	9	7.2	17.3	
6-Apr-06	9	8	7	7	7	6	6	6	8	8	9	12	14	16	17	17	17	16	15	14	12	10	10	8	10.8	17.3	
7-Apr-06	7	6	4	1	0	-1	-1	1	5	9	11	14	16	16	17	18	18	18	17	14	10	8	7	7	9.2	18.2	
8-Apr-06	7	5	2	0	0	0	0	2	5	9	12	14	16	17	18	18	17	17	17	15	10	7	6	5	9.1	17.8	
9-Apr-06	4	6	7	8	8	7	7	7	7	8	9	10	12	12	12	12	12	11	10	9	8	7	6	5	8.5	12.4	
10-Apr-06	4	4	4	3	1	-1	-3	0	5	8	9	10	11	12	12	12	12	12	13	13	10	6	4	5	5	6.6	13.0
11-Apr-06	4	3	2	-1	-1	-1	-1	2	4	6	9	11	12	12	13	14	13	13	12	9	8	10	9	6	7.0	13.6	
12-Apr-06	4	3	2	1	2	1	0	1	6	7	9	10	11	8	7	7	9	8	6	5	5	5	5	5	5.5	11.1	
13-Apr-06	4	3	2	1	0	0	0	2	4	6	8	9	10	12	13	13	12	12	11	10	9	8	7	6	6.8	13.3	
14-Apr-06	5	5	5	4	1	0	0	1	3	7	8	9	3	2	3	4	4	5	5	4	3	2	1	0	3.4	9.2	
15-Apr-06	-1	-2	-2	-3	-3	-5	-5	-4	0	3	4	5	6	5	5	5	5	4	4	3	0	-1	-3	-5	0.6	5.7	
16-Apr-06	-5	-6	-7	-8	-9	-9	-9	-4	-1	1	4	5	7	8	9	9	10	9	8	7	6	5	3	2	1.6	10.0	
17-Apr-06	2	2	-3	-4	-5	-5	-4	1	3	6	8	9	9	9	10	10	10	10	10	8	7	5	3	0	4.3	10.3	
18-Apr-06	0	0	-1	-2	-1	-3	-3	1	6	10	11	12	13	15	15	17	17	17	16	13	8	5	3	1	7.1	16.8	
19-Apr-06	0	-1	-2	-2	-2	-3	-2	4	10	13	13	14	16	18	19	20	20	19	19	17	15	14	12	9	10.0	20.3	
20-Apr-06	6	4	3	2	1	0	0	4	6	9	10	12	14	15	15	15	14	14	12	11	9	8	6	6	8.1	15.2	
21-Apr-06	6	5	5	4	4	4	3	3	4	4	4	3	4	4	3	3	4	5	5	5	3	3	2	2	3.8	5.8	
22-Apr-06	2	2	2	2	2	1	1	1	2	2	4	5	6	7	8	10	10	10	10	9	5	2	0	-1	4.2	10.5	
23-Apr-06	-2	-3	-3	-4	-5	-5	-4	0	4	7	9	11	13	15	16	17	17	18	18	16	9	5	2	1	6.3	18.0	
24-Apr-06	0	-1	-1	-2	0	0	1	4	7	11	14	18	19	21	22	22	23	23	22	20	14	9	6	4	10.7	22.9	
25-Apr-06	2	2	1	-1	-2	-2	-1	5	9	13	16	20	22	23	23	23	23	22	20	20	18	15	12	8	4	11.3	23.0
26-Apr-06	3	2	1	0	-1	-1	2	7	9	12	15	17	16	16	15	15	14	14	13	11	10	9	9	7	8.9	16.6	
27-Apr-06	6	5	3	2	4	4	5	7	9	10	11	12	13	14	15	16	16	15	15	14	11	7	7	7	9.4	15.6	
28-Apr-06	9	3	3	3	3	3	5	11	15	18	19	19	19	20	22	24	24	24	23	22	20	17	14	13	14.8	24.4	
29-Apr-06	13	13	12	10	9	8	8	7	8	8	9	9	10	10	11	11	12	11	9	9	8	7	6	6	9.4	13.4	
30-Apr-06	5	4	3	2	1	-1	0	4	7	9	10	11	11	12	13	14	14	14	14	13	10	9	8	7	8.1	14.2	
Hourly Avg	3.1	2.4	1.5	0.6	0.1	-0.5	-0.3	2.3	5.3	7.6	9.3	10.9	12.0	12.7	13.3	13.8	13.8	13.6	12.8	11.2	8.5	6.6	5.3	3.9			
Hourly Max	13.2	13.4	11.8	9.8	9.0	8.4	7.6	11.4	15.3	17.9	19.3	19.8	21.5	22.5	23.0	23.8	24.4	24.3	23.3	22.1	20.1	16.8	14.4	13.1			



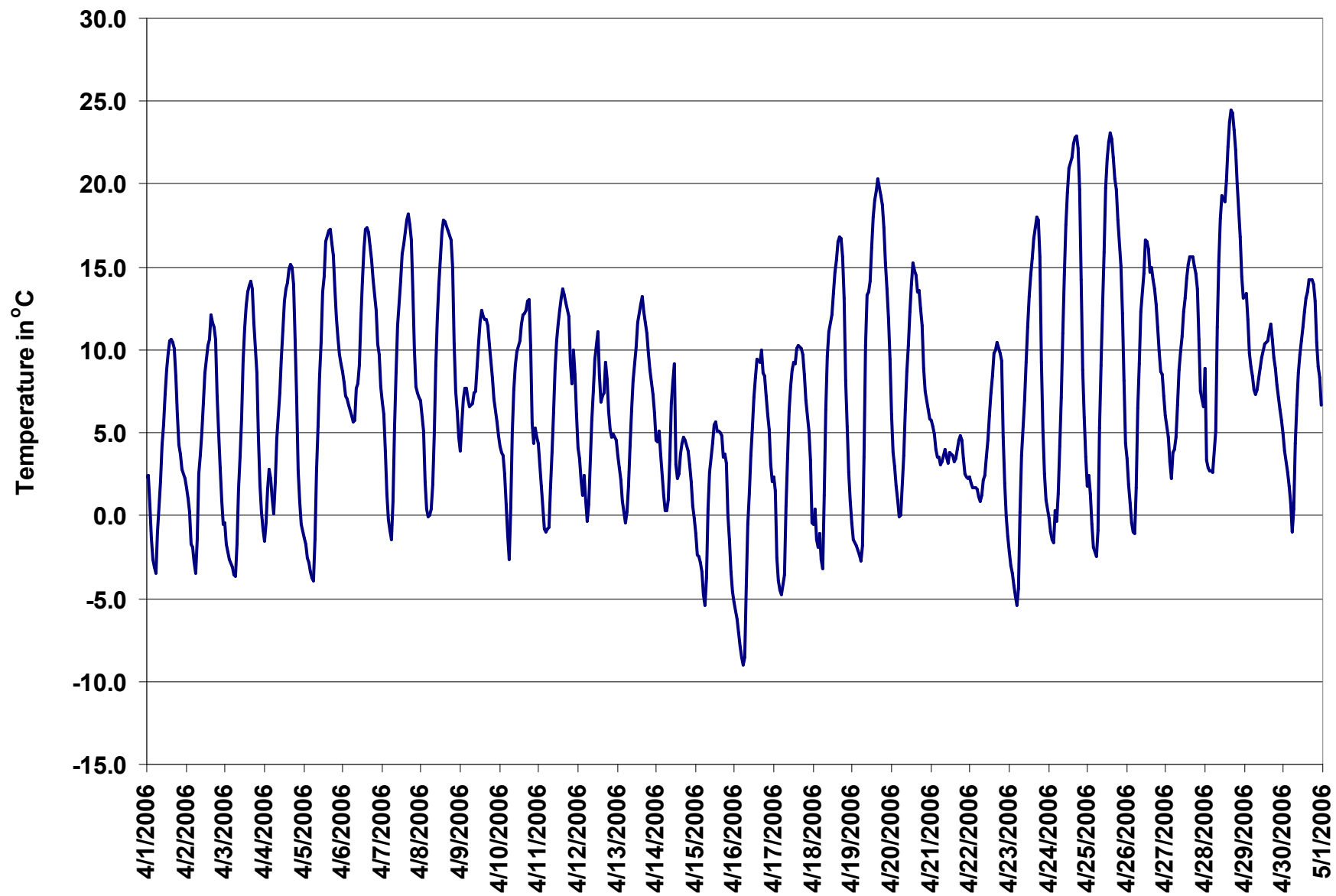


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

## PASZA - Evergreen Park - Scalar Wind Speed Monthly Summary

Station: Evergreen Park  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

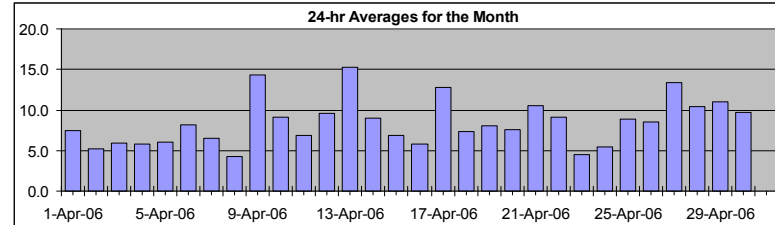
### Wind Speed (WSs)

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Average:	28.1	km/hr	13-Apr	11:00 12:00
Maximum 24-hr Value:	15.3	km/hr	13-Apr	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	22.9	19.5	11.1	7.4	4.5	2.3	1.8	8.4 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 Scalar Average	Daily Max
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Apr-06	7	4	3	2	3	3	2	2	2	5	7	7	9	12	13	12	14	14	12	10	8	7	8	7	5.2	14.0
2-Apr-06	7	7	3	4	3	2	2	2	3	3	4	4	6	6	6	5	7	8	7	14	7	5	6	5	5.2	13.6
3-Apr-06	4	3	2	2	5	3	2	6	5	5	7	12	12	13	13	12	11	6	4	3	2	3	3	3	5.9	13.2
4-Apr-06	3	4	5	5	6	5	4	5	7	9	7	8	7	7	8	7	8	9	9	7	5	2	2	2	5.8	8.9
5-Apr-06	3	3	3	2	2	3	2	3	5	4	4	6	7	8	11	11	11	10	10	9	6	7	8	9	6.1	11.2
6-Apr-06	10	10	9	10	9	7	6	3	7	9	9	8	10	9	10	8	5	5	11	10	10	9	8	5	8.1	10.6
7-Apr-06	5	6	4	3	3	5	4	4	6	8	6	6	7	9	9	7	7	9	8	7	6	6	7	8	6.5	9.4
8-Apr-06	7	5	3	2	2	2	2	3	4	5	5	5	7	7	7	8	6	9	4	3	2	2	2	2	4.3	8.9
9-Apr-06	4	7	9	10	13	13	12	13	14	15	15	22	21	21	20	23	19	19	16	16	14	10	10	10	14.3	22.6
10-Apr-06	11	10	10	7	4	4	3	6	7	15	17	16	15	13	13	11	9	9	8	4	3	5	7	10	9.1	16.7
11-Apr-06	7	6	6	3	5	5	5	9	11	9	11	11	13	11	9	8	6	5	4	3	3	7	6	3	6.9	12.6
12-Apr-06	5	6	3	6	6	3	3	3	9	10	8	7	6	13	10	6	6	13	21	20	14	14	18	20	9.6	21.0
13-Apr-06	24	23	18	12	11	14	10	6	10	16	24	28	21	20	18	19	18	16	14	9	8	13	8	6	15.3	28.1
14-Apr-06	4	5	5	3	3	2	2	3	3	5	5	7	22	21	19	15	14	13	12	10	13	11	9	9	9.0	21.7
15-Apr-06	7	6	7	9	8	4	4	3	4	7	13	9	10	11	9	9	8	11	10	3	5	3	3	2	6.8	12.7
16-Apr-06	3	3	3	2	2	3	3	2	5	4	7	5	7	8	8	8	13	11	6	5	9	9	7	7	5.8	12.6
17-Apr-06	10	9	3	2	4	5	4	4	10	16	18	17	17	18	20	26	23	22	23	20	12	10	8	6	12.8	26.4
18-Apr-06	6	6	5	5	6	5	3	2	8	13	14	13	10	9	9	9	11	12	13	5	2	4	3	3	7.3	14.2
19-Apr-06	2	2	2	3	3	4	3	5	8	10	11	13	12	11	8	9	12	14	15	13	10	10	8	4	8.0	15.4
20-Apr-06	3	3	2	2	4	2	3	5	5	5	6	7	7	8	15	18	16	11	13	11	11	11	6	8	7.6	18.3
21-Apr-06	9	8	10	9	7	6	9	8	11	12	13	13	12	13	11	12	10	9	10	12	12	13	11	12	10.5	13.3
22-Apr-06	11	11	12	10	11	12	12	12	14	15	15	12	11	9	8	7	7	5	3	7	3	4	4	3	9.1	14.7
23-Apr-06	2	3	3	2	2	2	2	3	4	4	6	6	6	6	7	8	7	6	6	7	5	6	4	2	4.5	8.2
24-Apr-06	2	3	4	5	4	4	6	8	7	4	5	5	6	8	8	7	8	8	9	7	5	3	3	2	5.4	8.8
25-Apr-06	5	5	3	3	2	2	2	5	7	9	9	11	15	11	12	21	23	20	18	14	8	5	3	3	8.8	22.5
26-Apr-06	3	2	2	3	3	4	5	4	7	6	7	6	6	13	13	11	13	15	16	17	9	10	16	15	8.6	16.6
27-Apr-06	13	9	7	5	8	11	10	13	16	23	25	23	22	20	20	19	20	17	14	8	3	4	6	6	13.3	24.6
28-Apr-06	9	3	3	3	3	3	3	6	8	14	21	20	14	10	8	6	10	22	21	23	14	9	9	7	10.4	22.6
29-Apr-06	10	14	16	18	17	16	17	14	10	11	8	7	8	7	7	6	8	10	12	10	7	10	10	12	11.0	17.9
30-Apr-06	13	13	7	7	6	5	4	11	15	15	15	14	14	12	12	9	7	9	8	7	5	9	10	7	9.7	15.1
1-hr Average	7.0	6.6	5.7	5.4	5.5	5.2	5.0	5.8	7.9	9.6	10.7	11.0	11.3	11.5	11.4	11.2	11.1	11.6	11.2	9.6	7.3	7.4	7.1	6.5		
Hourly Max	24.1	23.4	18.5	17.9	17.2	15.7	17.3	13.8	16.2	22.6	24.6	28.1	21.7	21.5	20.2	26.4	22.9	22.5	23.2	22.6	14.4	14.1	17.6	20.4		

# PASZA - Evergreen Park - Vector Wind Speed Monthly Summary

Station: Evergreen Park  
 Station Owner: PASZA

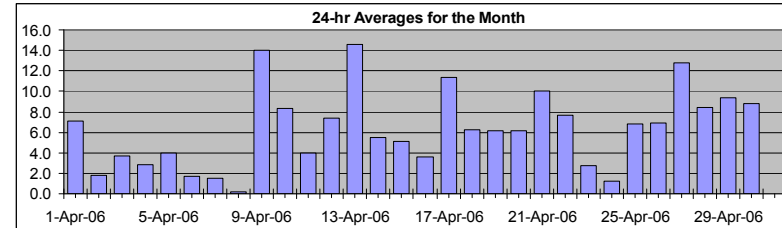
## HOURLY AVERAGE TABLE

## Wind Speed (WSv)

Monitoring Dates: April 1, 2006 to May 1, 2006

### Summary

Maximum 1-hr Average:	27.7	km/hr	13-Apr	11:00 12:00
Maximum 24-hr Value:	14.6	km/hr	13-Apr	



Calm Time:	18 hrs	3% calms	Operational Time:	702 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	22.4	18.9	10.8	6.7	3.8	1.3	1.0	4.8 km/hr

### Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Apr-06	7	4	calm	1	2	calm	2	calm	5	7	7	9	11	13	12	13	14	11	10	8	7	7	8	7	7.1	13.7	
2-Apr-06	7	7	3	3	3	1	2	1	2	3	3	calm	4	6	5	4	6	7	6	13	6	2	6	5	1.8	12.6	
3-Apr-06	4	2	1	2	5	2	2	5	5	5	7	11	12	12	12	10	10	5	4	3	1	2	1	calm	3.7	12.3	
4-Apr-06	3	3	5	5	5	4	4	4	7	9	6	6	4	5	4	5	7	8	8	7	5	1	calm	1	2.9	8.7	
5-Apr-06	1	2	calm	calm	1	2	calm	2	4	3	1	5	6	7	10	10	10	9	9	8	6	7	8	9	4.0	10.2	
6-Apr-06	10	9	9	9	9	7	6	3	7	9	8	7	8	7	7	5	2	2	10	10	10	8	8	5	1.7	9.8	
7-Apr-06	5	6	3	1	3	5	4	3	6	7	6	6	5	8	6	2	3	9	8	7	6	6	7	8	1.5	8.7	
8-Apr-06	7	4	2	1	1	2	calm	2	2	2	3	3	4	5	5	4	6	8	4	2	1	1	calm	1	0.2	8.2	
9-Apr-06	3	6	9	10	13	12	12	13	14	14	15	22	20	20	20	22	18	18	16	16	14	10	10	10	14.0	22.3	
10-Apr-06	11	10	10	5	4	4	3	5	7	15	16	15	14	12	12	9	8	8	6	4	3	5	7	10	8.4	15.9	
11-Apr-06	7	6	5	3	5	5	5	8	11	9	10	9	11	8	8	4	3	4	4	3	1	4	2	2	4.0	11.1	
12-Apr-06	5	5	2	6	5	1	1	2	8	10	7	5	2	12	9	2	5	11	21	20	14	14	18	20	7.4	20.8	
13-Apr-06	24	23	18	12	11	14	9	6	9	16	23	28	21	19	16	18	18	15	13	9	8	13	7	6	14.6	27.7	
14-Apr-06	3	5	5	2	2	2	1	calm	3	5	5	2	21	21	18	14	14	13	12	10	13	11	8	9	5.5	20.8	
15-Apr-06	6	5	7	9	8	1	3	2	4	6	12	7	8	10	6	7	6	10	9	1	5	1	2	1	5.1	11.8	
16-Apr-06	3	2	2	1	1	1	2	1	4	3	6	3	4	6	3	6	12	11	6	5	8	9	7	6	3.6	11.9	
17-Apr-06	10	9	2	1	2	5	3	2	10	16	18	17	16	16	19	26	22	22	23	19	11	10	8	6	11.4	25.8	
18-Apr-06	6	6	5	5	6	5	3	2	8	12	13	11	7	8	7	7	9	11	12	5	1	1	1	1	6.2	13.4	
19-Apr-06	1	1	1	2	3	4	2	5	8	10	11	12	11	9	5	2	12	14	15	13	9	10	8	3	6.2	15.1	
20-Apr-06	2	2	calm	calm	calm	2	2	5	5	4	5	5	4	7	15	18	15	11	12	10	11	11	6	7	6.2	17.9	
21-Apr-06	9	7	9	9	6	6	8	8	11	11	13	13	12	13	11	11	10	9	10	12	12	13	11	11	10.1	13.0	
22-Apr-06	11	11	11	10	11	12	12	12	13	14	14	11	9	7	7	4	6	3	1	7	3	4	4	2	7.7	14.2	
23-Apr-06	2	3	3	1	1	1	1	3	4	2	5	4	4	3	4	4	3	5	6	5	5	6	4	2	2.7	6.2	
24-Apr-06	2	2	2	5	4	3	6	8	6	3	4	3	5	7	5	5	7	8	9	7	5	3	3	2	1.2	8.5	
25-Apr-06	4	2	calm	2	1	calm	1	4	7	9	8	10	14	8	11	19	22	20	18	14	7	4	3	2	6.8	21.9	
26-Apr-06	3	1	1	2	3	3	4	3	6	5	5	3	5	11	12	10	12	15	16	16	9	10	16	15	6.9	16.3	
27-Apr-06	13	9	7	5	8	11	10	13	16	22	24	22	21	19	19	19	19	17	14	8	1	3	5	6	12.8	24.0	
28-Apr-06	8	3	3	3	calm	2	1	6	8	14	20	19	14	9	6	3	7	22	20	22	14	9	9	6	8.4	22.4	
29-Apr-06	10	14	15	18	17	15	17	14	9	10	6	6	7	5	5	4	5	10	11	9	6	9	10	12	9.4	17.6	
30-Apr-06	13	13	7	7	6	4	4	11	15	14	14	14	12	10	11	5	4	7	8	7	5	8	9	7	8.8	14.8	
1-hr Vector	3.3	3.0	2.5	2.3	2.2	2.3	2.4	3.5	5.3	7.1	7.9	7.7	7.9	7.5	6.8	6.7	6.1	6.2	6.3	5.5	3.6	4.1	3.5	3.3			
Hourly Max	23.9	23.2	18.3	17.6	17.0	15.0	17.1	13.5	15.6	22.0	24.0	27.7	20.9	20.8	19.8	25.8	22.2	22.0	22.8	22.4	14.3	14.0	17.5	20.2			

## PASZA - Evergreen Park - Wind Direction Monthly Summary

Station: Evergreen Park  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	357.4	349.4	322.6	268.5	133.1	15.6	3.9	327 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
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Apr-06	120	132	135	44	318	107	76	94	121	105	97	100	105	110	108	108	104	99	107	115	122	120	117	119	108	ESE	
2-Apr-06	121	123	119	110	116	214	260	90	259	303	328	324	42	49	52	79	359	15	336	320	356	285	251	247	3	N	
3-Apr-06	266	221	195	237	248	216	241	260	248	314	335	318	323	328	331	340	340	32	109	131	204	273	75	349	315	NW	
4-Apr-06	283	354	332	331	333	359	299	333	328	319	341	356	356	26	333	81	88	109	106	120	150	156	42	31	12	NNE	
5-Apr-06	350	44	274	96	236	248	153	255	304	338	237	199	136	135	138	144	133	150	162	178	187	162	156	155	161	SSE	
6-Apr-06	156	150	149	149	154	150	156	139	253	277	319	330	345	12	4	26	4	115	310	326	324	333	341	330	337	NNW	
7-Apr-06	318	328	352	359	262	251	257	317	317	323	338	328	324	1	352	337	149	109	112	118	121	127	131	132	5	N	
8-Apr-06	133	121	138	171	94	160	160	119	132	202	170	188	264	280	336	27	24	16	333	35	253	213	301	258	110	ESE	
9-Apr-06	331	4	350	343	330	317	308	328	333	327	315	312	327	324	325	320	329	333	345	342	350	332	321	316	329	NNW	
10-Apr-06	314	309	304	332	342	291	237	280	333	328	332	341	333	347	329	329	355	347	5	45	272	317	326	327	329	NNW	
11-Apr-06	331	10	347	13	17	2	327	328	326	318	322	352	339	347	9	75	84	105	119	91	177	230	170	95	353	N	
12-Apr-06	121	23	72	327	15	37	211	254	318	325	1	334	359	37	40	28	244	317	342	326	321	306	315	328	337	NNW	
13-Apr-06	324	321	311	292	293	284	297	260	290	323	324	323	316	306	311	301	306	299	287	270	293	286	259	254	305	NW	
14-Apr-06	228	232	233	238	179	150	208	170	188	213	211	199	357	351	6	353	315	298	291	286	302	300	288	295	308	NW	
15-Apr-06	331	349	319	287	274	296	120	133	244	304	309	302	292	357	285	268	319	271	348	298	264	357	146	144	303	WNW	
16-Apr-06	250	229	243	19	129	200	57	235	252	302	14	44	33	293	212	246	268	275	261	232	245	300	289	298	275	W	
17-Apr-06	285	298	115	170	140	253	262	289	298	298	313	319	306	307	317	324	329	332	333	334	311	289	285	256	312	NW	
18-Apr-06	265	256	253	258	262	266	263	261	261	275	286	297	271	260	246	321	296	320	330	334	239	349	191	180	282	WNW	
19-Apr-06	221	207	198	157	132	137	163	241	234	256	261	261	245	259	256	320	273	292	285	303	320	313	316	332	273	W	
20-Apr-06	300	95	232	262	285	126	52	31	47	62	136	27	347	50	44	42	48	55	48	45	24	38	1	8	39	NE	
21-Apr-06	16	349	357	9	356	345	326	348	335	346	20	26	30	15	358	346	350	353	347	346	5	12	358	8	360	N	
22-Apr-06	10	10	15	15	14	14	20	13	18	26	33	31	19	38	32	357	42	285	319	310	253	265	263	247	12	NNE	
23-Apr-06	237	233	248	207	111	206	122	255	270	284	312	279	190	224	230	243	221	184	176	143	129	139	139	103	212	SSW	
24-Apr-06	109	336	356	319	317	304	300	307	324	268	291	306	320	272	50	69	88	107	120	128	133	121	91	94	8	N	
25-Apr-06	130	145	190	256	141	187	190	279	319	331	317	319	330	348	2	337	337	341	344	354	4	8	11	245	338	NNW	
26-Apr-06	350	306	218	233	268	282	300	19	20	50	16	154	252	326	329	331	318	327	332	326	304	302	324	322	324	324	NW
27-Apr-06	323	315	318	304	310	309	315	333	347	336	326	333	334	324	323	323	315	306	320	337	247	254	275	278	322	NW	
28-Apr-06	288	169	132	126	236	258	238	243	264	269	290	284	277	253	225	197	299	300	306	317	311	336	322	341	288	WNW	
29-Apr-06	340	344	24	33	27	351	342	346	335	347	351	318	285	290	312	328	270	333	339	300	290	302	315	321	338	NNW	
30-Apr-06	316	315	359	351	13	17	351	324	343	341	340	320	328	321	299	281	7	33	16	14	340	328	340	354	336	NNW	
Hourly Avg	320	331	335	338	331	309	309	316	316	319	325	323	327	334	337	340	333	332	336	332	316	314	315	321			

## PASZA - Evergreen Park - Standard Deviation of Wind Direction Monthly Summary

Station: Evergreen Park  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

--

Determined by the Yamartino 15-min interval calculation

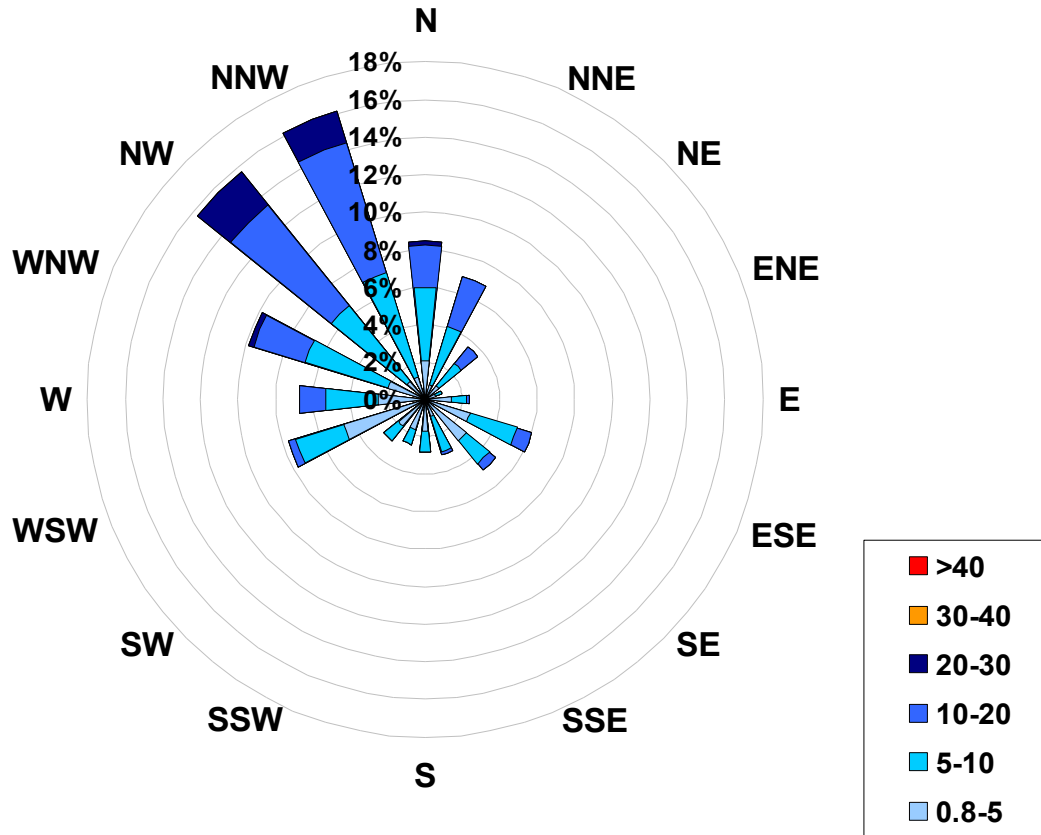
Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	62.5	55.0	34.0	16.9	11.2	5.7	4.5

**Status Flag Characters**

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

Day	Mountain Standard Time																								Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
1-Apr-06	7	30	41	66	38	47	17	45	14	12	17	16	15	15	11	11	11	8	7	6	6	6	7	7	66.2
2-Apr-06	7	7	19	22	27	42	24	25	49	45	58	45	35	25	30	47	20	17	12	15	14	22	9	14	58.2
3-Apr-06	9	37	51	36	23	40	31	19	45	16	12	13	16	17	22	31	19	29	10	12	27	26	64	51	64.1
4-Apr-06	20	41	14	17	20	18	14	19	15	12	26	26	53	53	61	34	26	28	9	6	9	12	60	18	61.0
5-Apr-06	42	49	49	39	45	48	47	41	22	43	49	34	34	28	29	24	19	18	14	14	15	11	8	9	49.3
6-Apr-06	9	9	9	11	10	11	11	33	18	11	13	22	27	41	47	45	65	46	16	14	7	11	8	13	64.5
7-Apr-06	8	7	19	35	33	9	17	27	12	16	26	44	59	37	47	49	52	16	10	6	4	4	6	6	59.4
8-Apr-06	6	41	33	30	45	19	51	53	55	41	59	59	49	55	51	29	25	16	20	17	59	39	45	36	59.0
9-Apr-06	26	13	14	14	8	7	6	7	12	14	15	11	14	15	11	9	14	9	10	9	10	9	6	5	26.3
10-Apr-06	4	6	5	23	17	13	26	19	17	13	13	19	22	24	21	26	21	28	30	27	37	13	6	5	37.2
11-Apr-06	7	17	14	22	17	23	10	7	9	14	15	29	27	44	35	56	65	41	13	9	31	46	47	45	65.3
12-Apr-06	8	17	40	27	13	38	44	60	16	16	35	57	70	34	23	50	23	17	8	6	6	6	6	6	69.9
13-Apr-06	6	5	5	5	5	2	8	12	16	13	11	10	13	20	21	16	11	9	9	7	6	4	8	8	20.6
14-Apr-06	17	12	12	32	28	34	62	57	25	28	22	41	15	13	15	14	12	7	9	9	6	7	8	5	62.4
15-Apr-06	20	15	11	8	5	37	23	28	29	38	21	42	40	25	40	49	35	17	17	25	12	57	42	35	57.1
16-Apr-06	10	46	33	40	55	41	39	42	20	33	26	49	41	49	61	34	17	10	11	9	15	15	13	17	61.4
17-Apr-06	5	5	38	29	28	21	23	62	7	11	11	15	14	20	14	11	12	12	10	7	6	4	6	8	62.0
18-Apr-06	9	10	10	12	8	5	19	42	12	14	17	28	49	35	29	35	34	20	14	10	51	56	39	44	55.7
19-Apr-06	54	42	40	21	45	15	27	11	14	17	20	12	21	36	51	44	26	12	10	7	10	6	9	26	54.4
20-Apr-06	58	40	30	53	52	27	39	17	19	36	38	41	41	37	18	11	14	17	12	15	11	9	15	14	57.9
21-Apr-06	14	15	13	17	15	19	9	17	9	12	15	11	12	12	14	11	13	12	11	11	13	11	11	12	19.4
22-Apr-06	12	11	11	11	12	12	11	12	18	13	15	24	31	43	35	67	30	43	64	14	11	14	6	31	66.8
23-Apr-06	29	15	19	15	34	24	24	29	25	55	31	50	51	55	55	53	53	35	19	9	5	3	6	27	55.4
24-Apr-06	4	38	55	17	8	13	6	9	16	51	46	56	42	40	44	46	27	22	15	9	7	9	7	11	55.9
25-Apr-06	44	30	35	14	19	57	27	17	15	19	19	16	19	34	23	19	13	10	13	14	12	13	42	33	57.1
26-Apr-06	38	22	37	31	20	27	13	34	22	21	36	62	45	32	30	21	12	9	11	9	6	7	7	6	62.4
27-Apr-06	5	7	6	20	7	5	7	9	15	13	11	15	14	19	16	16	14	10	11	17	49	40	14	13	49.1
28-Apr-06	11	24	18	19	60	45	41	9	14	13	13	12	11	23	40	62	36	12	9	8	15	12	8	12	62.5
29-Apr-06	10	9	10	10	9	12	8	12	21	14	30	32	31	36	39	55	45	13	11	13	12	8	5	6	55.3
30-Apr-06	6	5	21	12	12	14	14	9	11	18	21	21	22	28	22	59	56	46	20	20	10	7	11	16	58.8
Hourly Max	58	49	55	66	60	57	62	62	55	55	59	62	70	55	61	67	65	46	64	27	59	57	64	51	

1-hr Average Wind Rose (in km/hr) Located at the Evergreen Park Site for April 2006



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	208
5	to	10	288
10	to	20	191
20	to	30	33
30	to	40	0
	>	40	0
Total Non-Zero Values			720

# PASZA - Smoky Heights

## Monthly Summary Tables, Graphs, and Roses

# PASZA - Smoky Heights - Sulphur Dioxide Monthly Summary

Station: Smoky Heights  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

## Sulphur Dioxide (SO<sub>2</sub>)

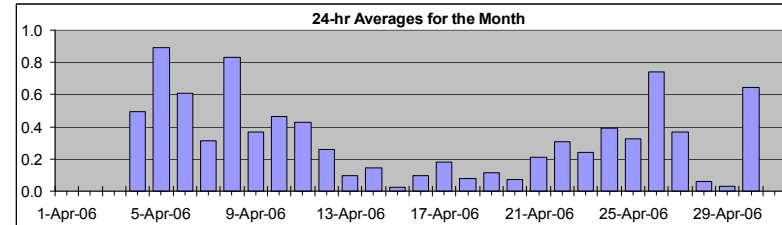
Monitoring Dates: April 1, 2006 to May 1, 2006

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:	6.1	ppb	26-Apr	7:00 8:00
Maximum 24-hr Average:	0.9	ppb	5-Apr	

AIC Time:	30 hrs		Operational Time:	624 hrs					
Calibration Time:	4 hrs		AMD Operational Uptime:	91.4%					
Percentile	99	95	75	50	25	5	1	Average	Median
	2.6	1.2	0.4	0.1	0.0	0.0	0.0	0.3 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-Apr-06	0	0	0	0	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.1
2-Apr-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
3-Apr-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	C	C	C	C	A	N	N	0.0	
4-Apr-06	2	1	1	1	1	A	0	0	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.5	1.5
5-Apr-06	0	0	0	0	A	1	1	1	1	0	2	2	3	3	2	1	1	1	1	1	0	0	0	0	0	0	0.9	2.7
6-Apr-06	0	0	1	A	1	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0	1	2	1	0	0	0.6	1.7	
7-Apr-06	0	0	A	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9	
8-Apr-06	A	A	0	0	0	1	0	0	1	2	3	3	2	2	1	0	1	0	0	1	0	1	1	0	0	0.8	2.7	
9-Apr-06	A	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	A	0	0.4	2.0	
10-Apr-06	1	1	1	1	0	1	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.5	3.4	
11-Apr-06	0	0	0	0	0	0	0	0	1	1	1	0	1	0	1	1	1	1	1	1	0	A	0	0	0	0.4	1.2	
12-Apr-06	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	A	0	1	0	0	0.3	0.9	
13-Apr-06	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	0.1	0.4	
14-Apr-06	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	0.1	1.1	
15-Apr-06	0	0	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	0.5	
16-Apr-06	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	0.5	
17-Apr-06	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0	0	0	0	1	0	0	0.2	1.4	
18-Apr-06	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	0.1	0.5	
19-Apr-06	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0.1	0.8	
20-Apr-06	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
21-Apr-06	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	0.2	0.4	
22-Apr-06	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	0.3	0.5	
23-Apr-06	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.2	1.1	
24-Apr-06	1	A	1	1	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.4	
25-Apr-06	A	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	1.2	
26-Apr-06	0	0	0	0	1	1	0	6	5	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0.7	6.1	
27-Apr-06	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0	0.4	1.4	
28-Apr-06	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	0.1	0.3	
29-Apr-06	0	0	0	0	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	
30-Apr-06	1	5	1	0	0	A	1	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	4.8	
Hourly Avg	0.3	0.4	0.4	0.2	0.3	0.4	0.3	0.8	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2				
Hourly Max	1.5	4.8	1.4	0.7	1.3	1.0	2.0	6.1	5.2	2.1	2.6	2.7	2.7	1.7	1.1	0.9	0.7	1.0	1.0	0.9	1.3	1.7	1.4	1.1				



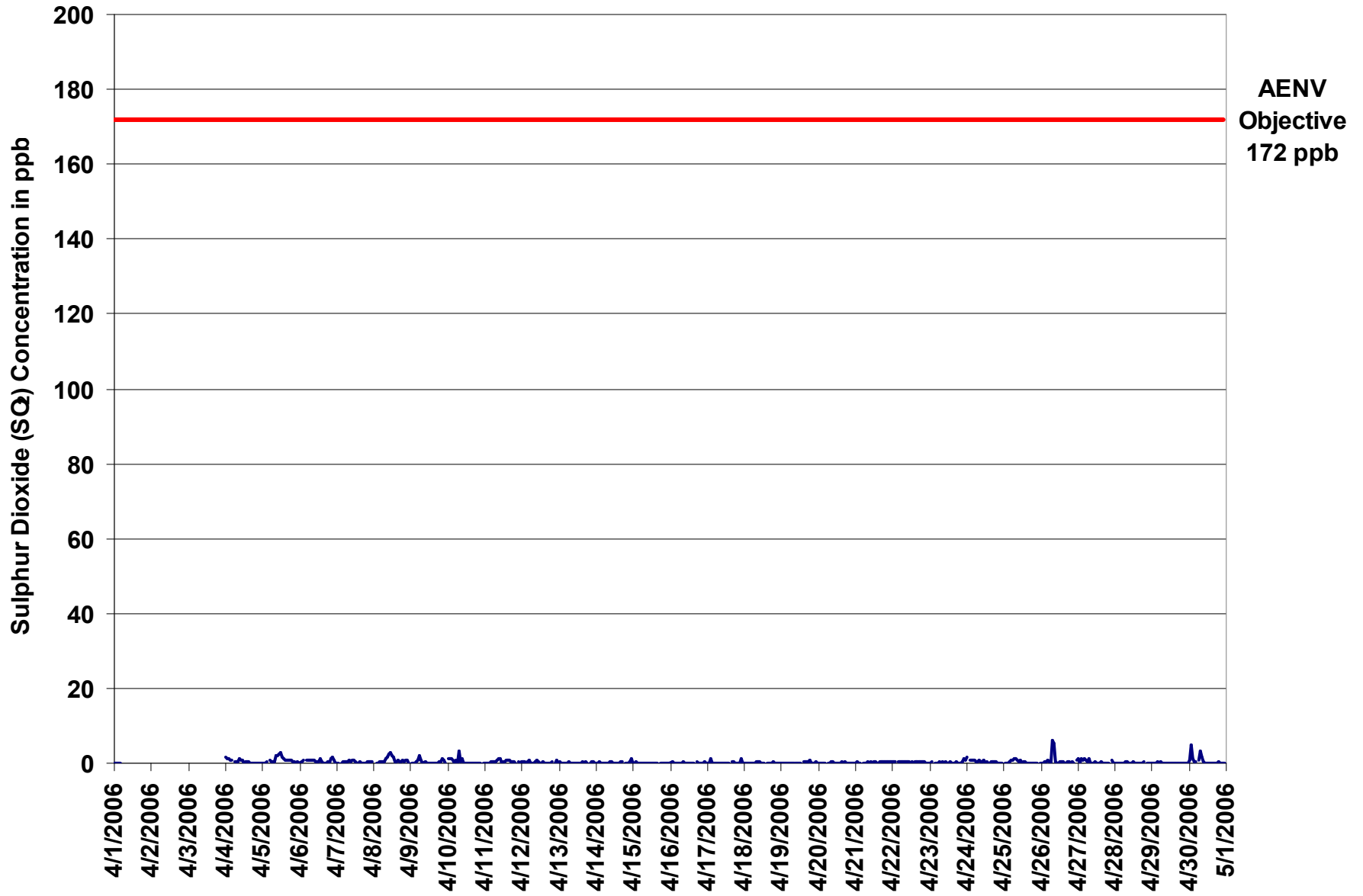


Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights  
 Station Owner: PASZA

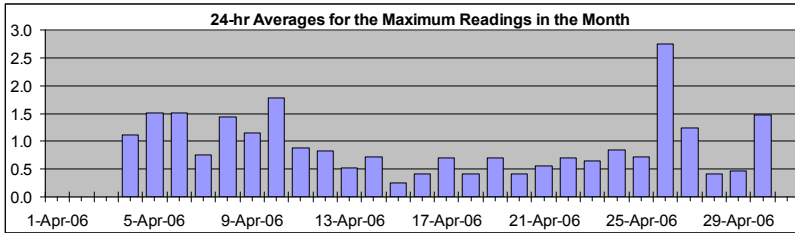
### INSTANTANEOUS (30 Second) MAXIMUM TABLE

### Sulphur Dioxide (SO<sub>2</sub>)

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Value:	34.2	ppb	26-Apr	7:00 8:00
Maximum 24-hr Value:	2.7	ppb	26-Apr	



AIC Time:	30 hrs	Operational Time:	624 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	91.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.1	2.8	0.9	0.6	0.3	0.0	0.0	0.9 ppb	0.6 ppb

**Status Flag Characters**

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

Day	Mountain Standard Time																									24-hour Average	Daily Maximum				
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00							
1-Apr-06	0	0	0	0	1	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.5		
2-Apr-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
3-Apr-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	C	C	C	C	A				N	0.0		
4-Apr-06	2	2	2	1	1	A	1	1	2	5	1	2	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	1	1.1	4.9	
5-Apr-06	0	0	0	1	A	2	2	2	2	3	3	3	3	3	2	1	1	1	2	1	1	1	1	1	1	1	1	1.5	3.1		
6-Apr-06	0	1	1	A	2	1	1	3	1	1	1	1	1	2	1	1	0	1	1	1	6	6	1	1			1.5	6.2			
7-Apr-06	0	1	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	1	1	1	0.8	1.5			
8-Apr-06	A	A	0	1	1	1	1	1	2	2	4	4	2	2	1	1	1	1	1	1	1	2	2	0			1.4	3.7			
9-Apr-06	A	0	0	1	1	2	5	3	1	1	0	0	0	0	0	0	0	0	1	1	3	3	1	A			1.1	4.8			
10-Apr-06	4	3	4	3	1	4	0	8	2	5	0	0	0	0	0	0	0	0	0	0	0	1	A	0			1.8	8.3			
11-Apr-06	0	0	0	0	1	1	1	1	1	2	2	1	1	1	1	2	1	1	1	1	0	A	1	0			0.9	1.8			
12-Apr-06	1	1	1	0	1	1	1	1	1	1	2	1	0	0	1	0	1	0	1	1	A	0	3	1			0.8	2.7			
13-Apr-06	1	0	1	0	0	0	2	1	1	0	0	0	0	0	1	1	0	1	0	A	1	1	1	1			0.5	1.9			
14-Apr-06	0	1	1	0	0	0	0	1	1	1	1	0	0	0	1	0	0	1	A	0	1	0	3	5			0.7	5.1			
15-Apr-06	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0			0.2	1.6		
16-Apr-06	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	1	A	1	0	0	1	0	1	1			0.4	1.1			
17-Apr-06	1	0	4	0	0	0	1	1	1	0	0	0	0	0	0	A	1	1	0	0	0	1	4	0			0.7	4.1			
18-Apr-06	0	0	0	0	0	0	0	0	1	1	1	0	0	0	A	1	0	0	1	1	1	1	0	0			0.4	1.3			
19-Apr-06	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	1	1	4	4	0	2	2	0			0.7	3.6			
20-Apr-06	1	1	0	0	0	A	0	0	1	1	0	0	0	0	1	1	0	1	1	0	0	0	0	1			0.4	0.8			
21-Apr-06	1	1	0	0	A	0	0	0	1	1	0	1	1	1	0	0	1	1	1	1	1	1	1	1			0.5	0.9			
22-Apr-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0			0.7	1.1			
23-Apr-06	0	1	A	1	0	1	1	1	1	0	1	0	0	1	0	0	0	1	0	0	0	1	2	2			0.6	1.8			
24-Apr-06	2	A	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0	0			0.8	1.9			
25-Apr-06	A	0	0	1	1	1	1	2	2	1	1	1	1	1	1	0	0	1	0	0	0	0	1	A			0.7	1.6			
26-Apr-06	1	0	1	1	1	1	0	34	12	1	0	0	1	1	1	1	1	1	1	1	1	1	1	A	2		2.7	34.2			
27-Apr-06	5	1	2	1	3	3	3	3	1	0	1	1	0	0	0	1	0	1	0	1	0	A	2	0			1.2	5.0			
28-Apr-06	0	0	0	0	0	0	0	1	1	0	0	1	1	1	0	0	0	1	0	1	A	0	0	0			0.4	1.1			
29-Apr-06	0	0	1	0	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	1			0.5	1.7			
30-Apr-06	2	8	2	1	1	A	3	5	3	2	1	0	0	0	0	0	0	0	0	1	0	1	1	1			1.5	8.5			
Hourly Avg	1.0	0.9	1.0	0.6	0.8	1.0	1.1	2.6	1.5	1.2	0.8	0.8	0.6	0.7	0.6	0.6	0.6	0.6	0.7	0.8	0.9	0.9	1.1	0.8							
Hourly Max	5.0	8.5	4.1	3.4	3.3	4.0	4.8	34.2	11.6	4.9	3.7	3.7	3.1	2.7	1.7	1.8	1.3	1.5	3.6	3.5	6.2	5.6	3.5	5.1							

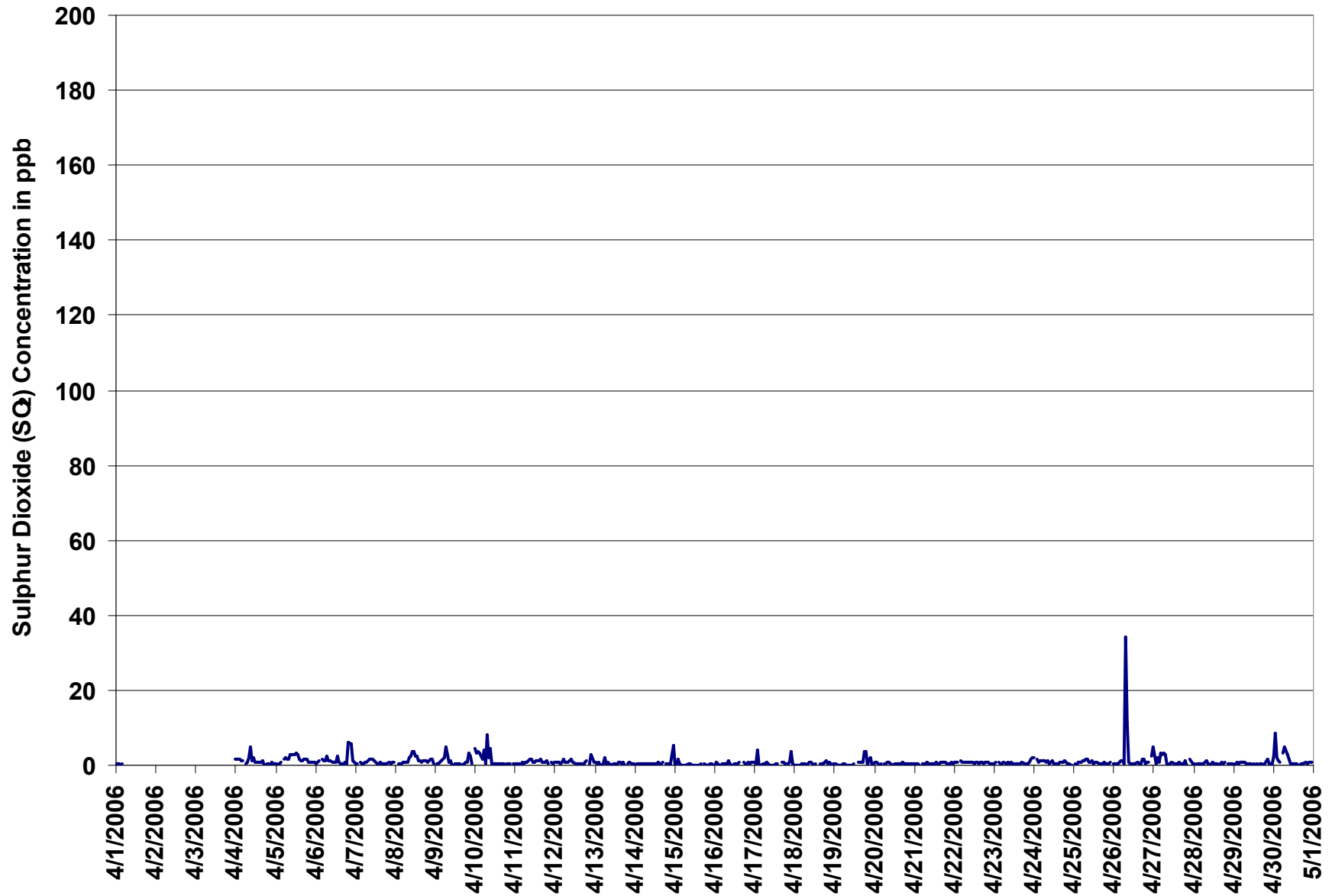
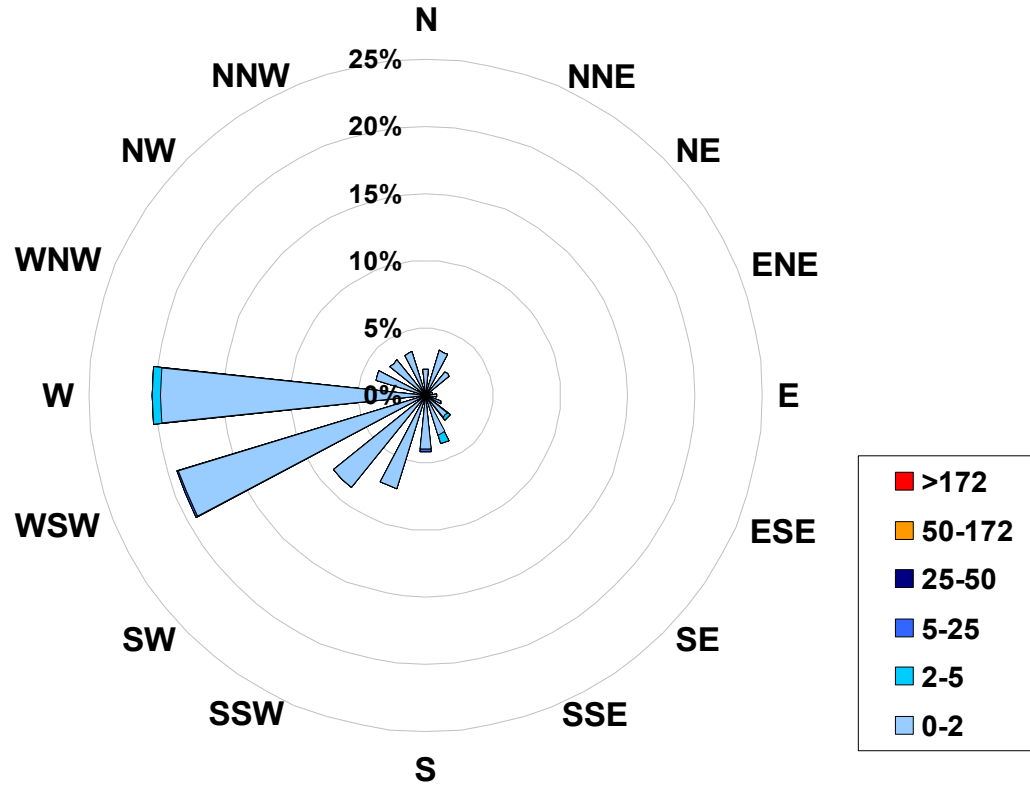


Figure 28. PASZA - Smoky Heights Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Smoky Heights Site for April 2006**



**Calms: 0%**

Frequency Distribution of SO <sub>2</sub> in ppb			Frequency (hrs)
Range			
0.0	< 2		611
2	to 5		11
5	to 25		2
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			624

# PASZA - Smoky Heights - Total Reduced Sulphur Monthly Summary

Station: Smoky Heights  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

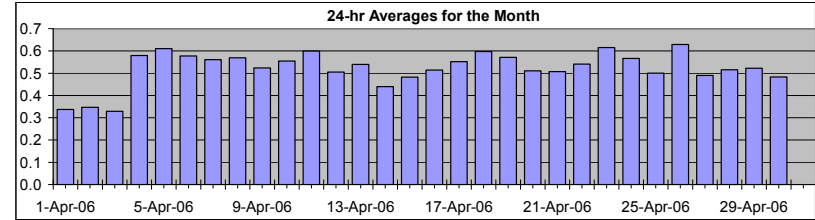
Total Reduced Sulphur (TRS)

Monitoring Dates: April 1, 2006 to May 1, 2006

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

Maximum 1-hr Average:	2.0	ppb	5-Apr	8:00 9:00
Maximum 24-hr Value:	0.6	ppb	26-Apr	

AIC Time:	32 hrs	Operational Time:	682 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.0	0.7	0.6	0.5	0.5	0.3	0.2	0.5 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	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-Apr-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	A	1	0	0	0	0	0	0.3	0.7
2-Apr-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	A	1	1	0	0	0	0	0	0.3	0.8
3-Apr-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0	C	C	C	A	0.3	1.0	
4-Apr-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.6	0.8	
5-Apr-06	0	1	0	0	A	1	1	1	2	1	0	1	1	1	1	1	0	1	1	1	0	0	0	0	0.6	2.0	
6-Apr-06	0	1	1	A	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0.6	1.0	
7-Apr-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	1	1	1	1	1	1	0.6	0.7	
8-Apr-06	0	A	0	1	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	0	1	0.6	0.8	
9-Apr-06	A	1	1	0	0	0	0	1	1	1	1	0	1	0	1	1	1	1	0	1	1	1	0	A	0.5	0.7	
10-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	A	1	0.6	0.7	
11-Apr-06	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.6	1.0	
12-Apr-06	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	A	1	0	1	0.5	0.6	
13-Apr-06	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0	A	1	1	0	1	0.5	0.8	
14-Apr-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	1	1	0.4	0.6	
15-Apr-06	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	0	0	A	1	0	1	1	1	0.5	0.6	
16-Apr-06	1	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	A	1	0	0	1	1	1	1	0.5	0.7	
17-Apr-06	1	1	1	1	1	1	0	1	0	1	0	0	1	1	1	A	1	1	1	1	1	1	1	1	0.6	0.7	
18-Apr-06	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	1	1	1	1	1	1	1	1	1	0.6	1.1	
19-Apr-06	1	1	0	0	0	0	0	0	0	0	0	0	0	A	1	1	1	1	1	1	1	1	1	1	0.6	1.1	
20-Apr-06	0	1	1	0	0	A	0	1	1	1	0	0	0	1	0	1	0	1	1	1	1	1	0	0	0.5	0.6	
21-Apr-06	1	1	1	1	A	1	1	1	0	0	0	1	1	1	1	1	1	0	1	0	0	0	0	0	0.5	0.6	
22-Apr-06	0	0	1	A	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0.5	0.6	
23-Apr-06	1	1	A	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	1	0	1	1	1	0.6	1.1	
24-Apr-06	1	A	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	1	0	0	1	0	0	1	0.6	0.8	
25-Apr-06	A	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0.5	0.9	
26-Apr-06	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	A	1	0.6	1.2	
27-Apr-06	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	A	1	1	0.5	0.8	
28-Apr-06	1	1	1	1	0	0	0	0	1	1	1	1	0	1	1	0	0	0	0	1	A	1	1	0	0.5	0.7	
29-Apr-06	1	1	1	1	1	1	1	0	1	1	1	1	0	0	0	0	0	0	M	M	M	1	1	1	0.5	0.9	
30-Apr-06	1	0	1	1	1	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.5	1.0	
Hourly Avg	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5			
Hourly Max	0.7	0.7	0.7	1.0	1.0	1.1	1.2	1.0	2.0	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.9	1.1	1.1	0.9	1.0	1.1	0.7	1.0			

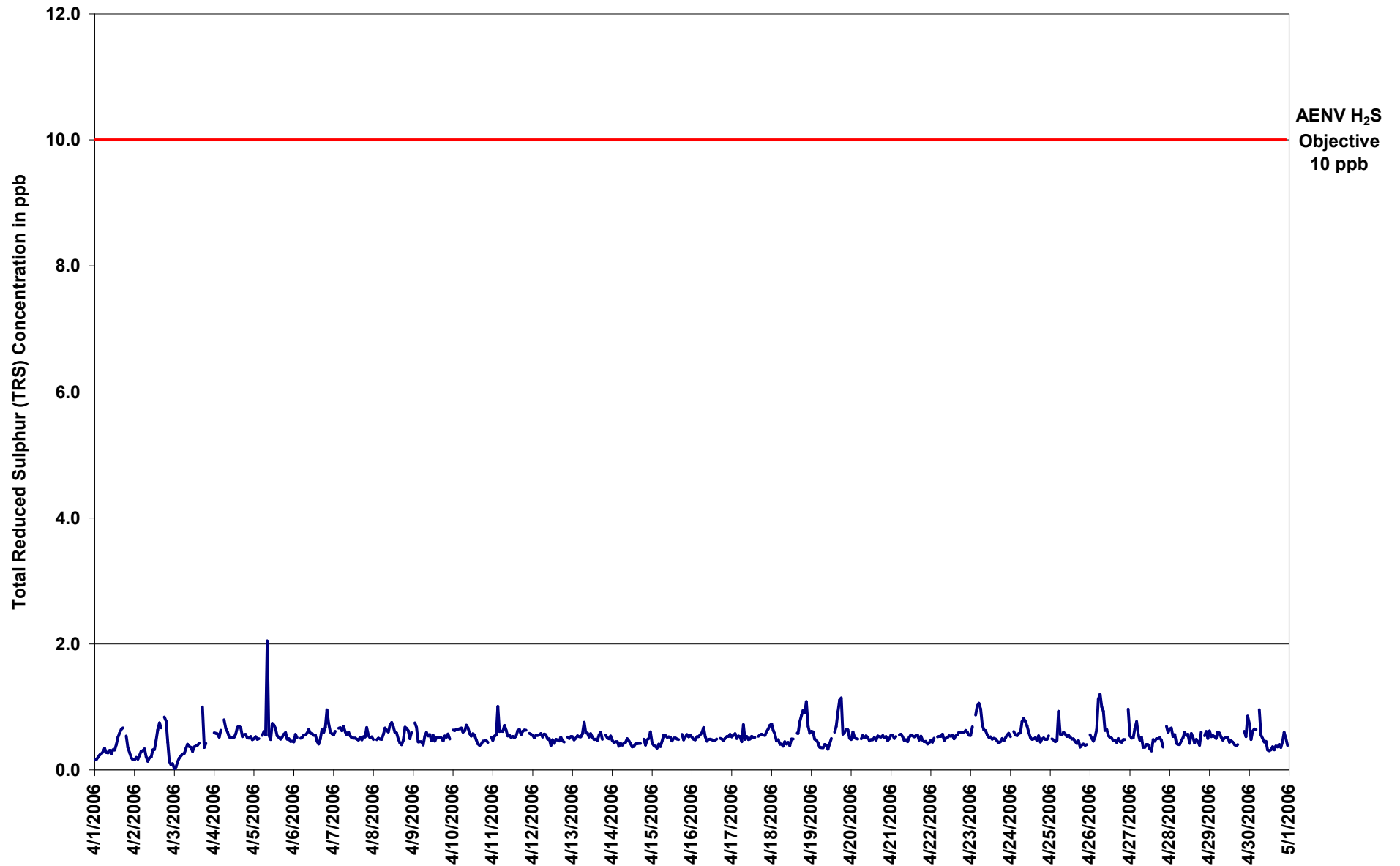


Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

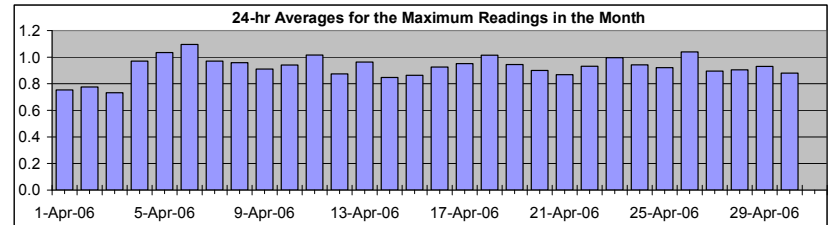
**Total Reduced Sulphur (TRS)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Value:	3.3	ppb	6-Apr	20:00 21:00
Maximum 24-hr Value:	1.1	ppb	6-Apr	

AIC Time:	32 hrs	Operational Time:	682 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.8	1.2	1.0	0.9	0.8	0.7	0.6	0.9 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	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Apr-06	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	1.1
2-Apr-06	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	1.2
3-Apr-06	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	C	C	C	A	0.7	1.5
4-Apr-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.4
5-Apr-06	1	1	1	1	A	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	3.2
6-Apr-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	2	1	1	1.1	3.3
7-Apr-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1.0	1.8
8-Apr-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.2
9-Apr-06	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	1.2
10-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.9	1.1
11-Apr-06	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.0	1.9
12-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.9	1.0
13-Apr-06	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1.0	1.9
14-Apr-06	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
15-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.9	1.1
16-Apr-06	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.9	1.5
17-Apr-06	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1.0	1.6
18-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	2	1	1	1.0	2.3
19-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	2	2	1	1	1	1	1	0.9	1.6
20-Apr-06	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
21-Apr-06	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
22-Apr-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
23-Apr-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.5
24-Apr-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.3
25-Apr-06	A	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	2.0
26-Apr-06	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.0	1.8
27-Apr-06	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	1.2
28-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.9	1.1
29-Apr-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	M	M	M	1	1	2	0.9	1.6
30-Apr-06	1	1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.5
Hourly Avg	0.9	0.9	0.9	0.9	0.9	1.0	0.9	1.1	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	0.9	0.9		
Hourly Max	1.2	1.2	1.1	1.9	1.4	2.0	1.6	1.9	3.2	1.2	1.2	1.3	1.1	1.1	1.1	1.1	1.3	1.6	1.5	1.3	3.3	2.3	1.3	1.6		

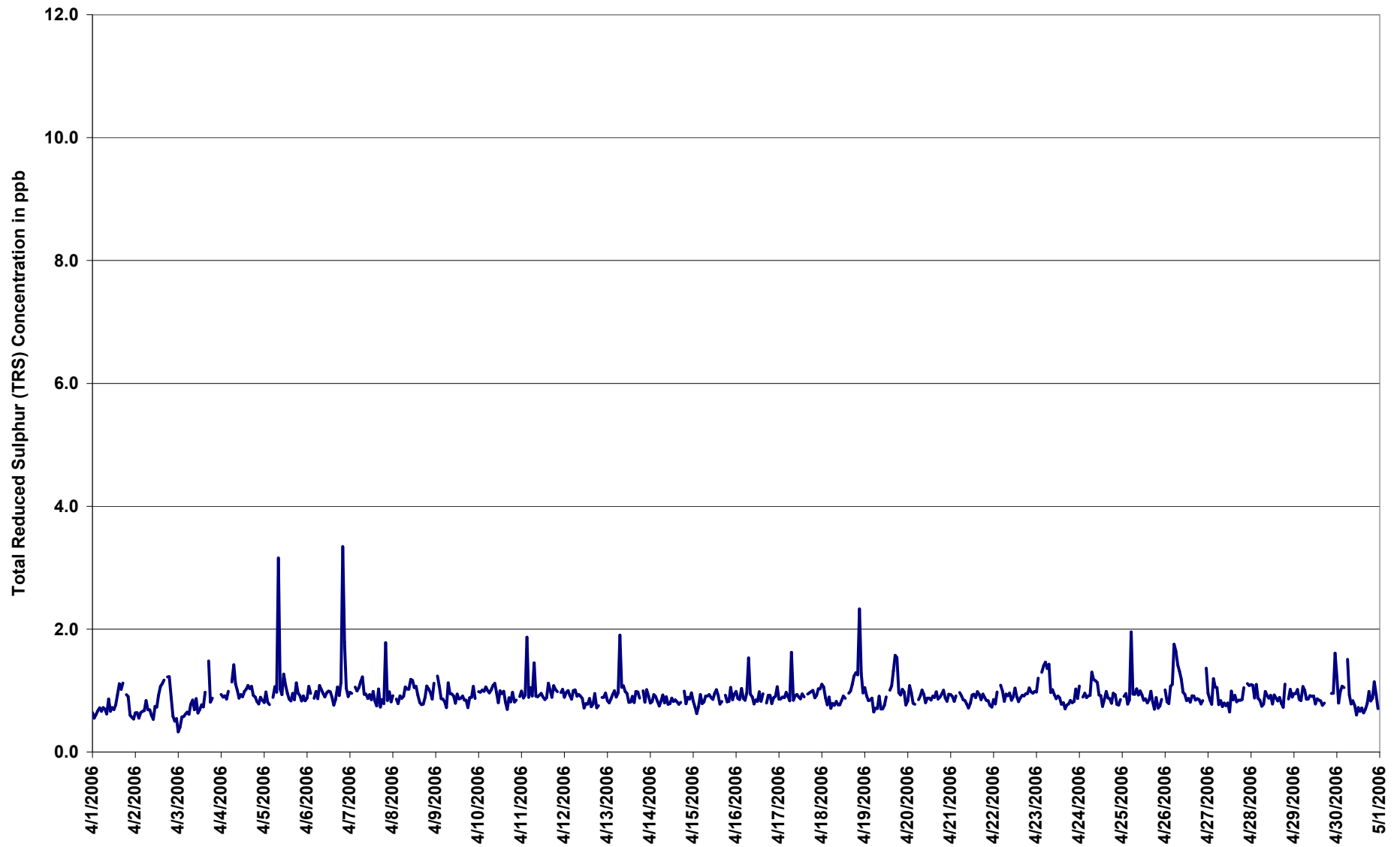
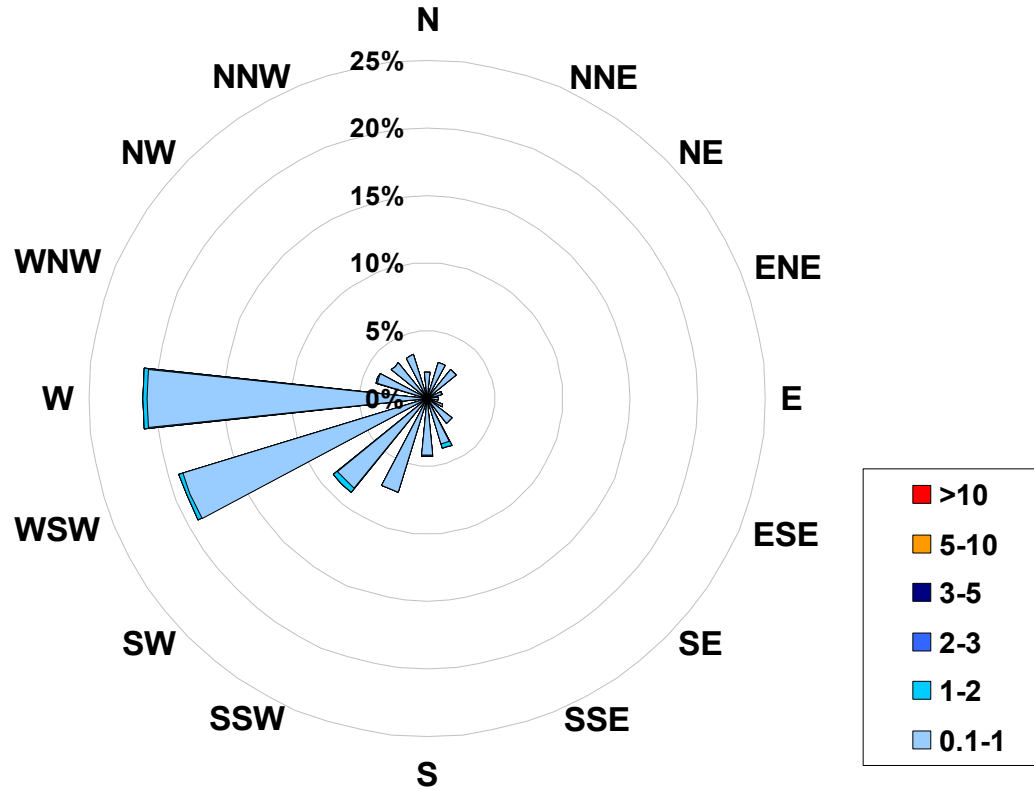


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend



**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)  
Located at the Smoky Heights Site for April 2006**



**Calms: 0%**

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	672
1	to	2	9
2	to	3	1
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			682

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

Station: Smoky Heights  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

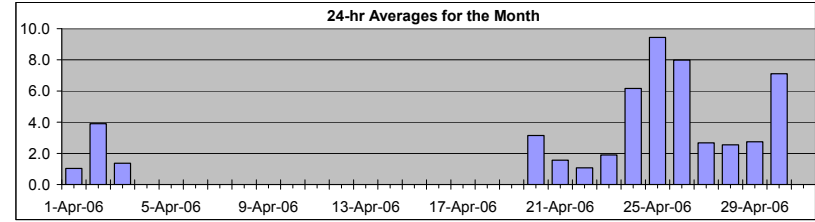
## Particulate Matter (PM<sub>2.5</sub>)

Monitoring Dates: April 1, 2006 to May 1, 2006

Draft Objective Limit: Alberta Environment: 1-hr - µg/m<sup>3</sup> 24-hr 30 µg/m<sup>3</sup>  
**Summary**

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	72.0 µg/m <sup>3</sup> 30-Apr 20:00 21:00
Maximum 24-hr Value:	9.4 µg/m <sup>3</sup> 25-Apr

AIC Time:	0 hrs	Operational Time:	335 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	47.1%
Percentile	99	95	75
	18.6	9.8	5.3
	5.0	2.3	1.2
	0.3	0.0	0.0
	Average / Median		Geomean
	3.9		2 µg/m <sup>3</sup>
			2.9 µg/m <sup>3</sup>



**Status Flag Characters**

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

Day	Mountain Standard Time																									24-hour Average	Daily Maximum		
	Hour Start	Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			0:00	
1-Apr-06	0:00	1:00	0	0	0	0	1	1	1	2	3	2	2	1	2	2	1	0	0	1	1	1	0	1	1	1.0	2.9		
2-Apr-06	1	1	1	1	3	2	2	3	5	8	6	6	6	5	5	5	2	2	1	10	13	4	0	0	3.9	13.3			
3-Apr-06	1	1	1	1	1	0	1	2	1	0	0	1	1	0	0	1	2	3	2	8	C	S	S	S	1.4	7.8			
4-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0		
5-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0		
6-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0		
7-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0		
8-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0		
9-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0		
10-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0		
11-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0		
12-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0		
13-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0		
14-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0		
15-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0		
16-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0		
17-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0		
18-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	C	C	C	16	11	6	N	15.7
19-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	C	C	C	16	11	6	N	15.7	
20-Apr-06	4	4	4	4	2	2	7	20	1	0	1	1	1	1	2	3	5	4	2	2	4	1	0	2	2	3.1	20.1		
21-Apr-06	1	1	1	1	1	2	2	2	3	2	3	2	1	1	2	2	2	2	3	2	2	1	1	1	1	1.6	2.7		
22-Apr-06	1	1	1	1	1	1	1	2	0	1	2	1	1	0	1	0	0	1	1	2	2	2	2	1	1.1	2.0			
23-Apr-06	2	2	2	1	1	2	3	2	2	2	1	0	0	0	1	2	2	2	3	3	3	4	4	3	1.9	4.2			
24-Apr-06	3	4	4	4	6	4	7	6	5	6	6	6	6	7	7	7	7	8	7	9	8	8	8	8	6.2	8.6			
25-Apr-06	8	7	7	7	6	12	15	9	9	9	8	7	7	8	8	10	9	8	8	11	11	27	9	9.4	27.0				
26-Apr-06	9	8	7	8	8	10	10	9	9	6	5	5	6	8	9	14	11	9	9	7	7	5	5	4	8.0	13.8			
27-Apr-06	2	1	1	1	4	3	3	2	2	2	3	3	2	1	2	5	4	3	3	3	4	2	4	4	2.7	4.6			
28-Apr-06	4	3	2	2	0	3	3	3	2	2	2	3	1	2	2	2	3	2	2	3	3	3	5	3	2.5	4.9			
29-Apr-06	3	3	2	0	0	5	2	1	3	0	0	2	1	1	2	2	2	5	5	6	5	6	4	5	2.7	6.4			
30-Apr-06	4	2	2	2	2	2	3	3	2	1	0	1	2	2	2	3	4	6	5	72	27	14	7	7.1	72.0				
Hourly Avg	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Hourly Max	9.1	8.2	7.0	8.1	8.0	12.0	15.3	20.1	9.3	9.1	7.8	7.5	7.0	7.6	9.5	13.8	11.3	9.2	8.8	10.4	72.0	26.6	27.0	9.3					

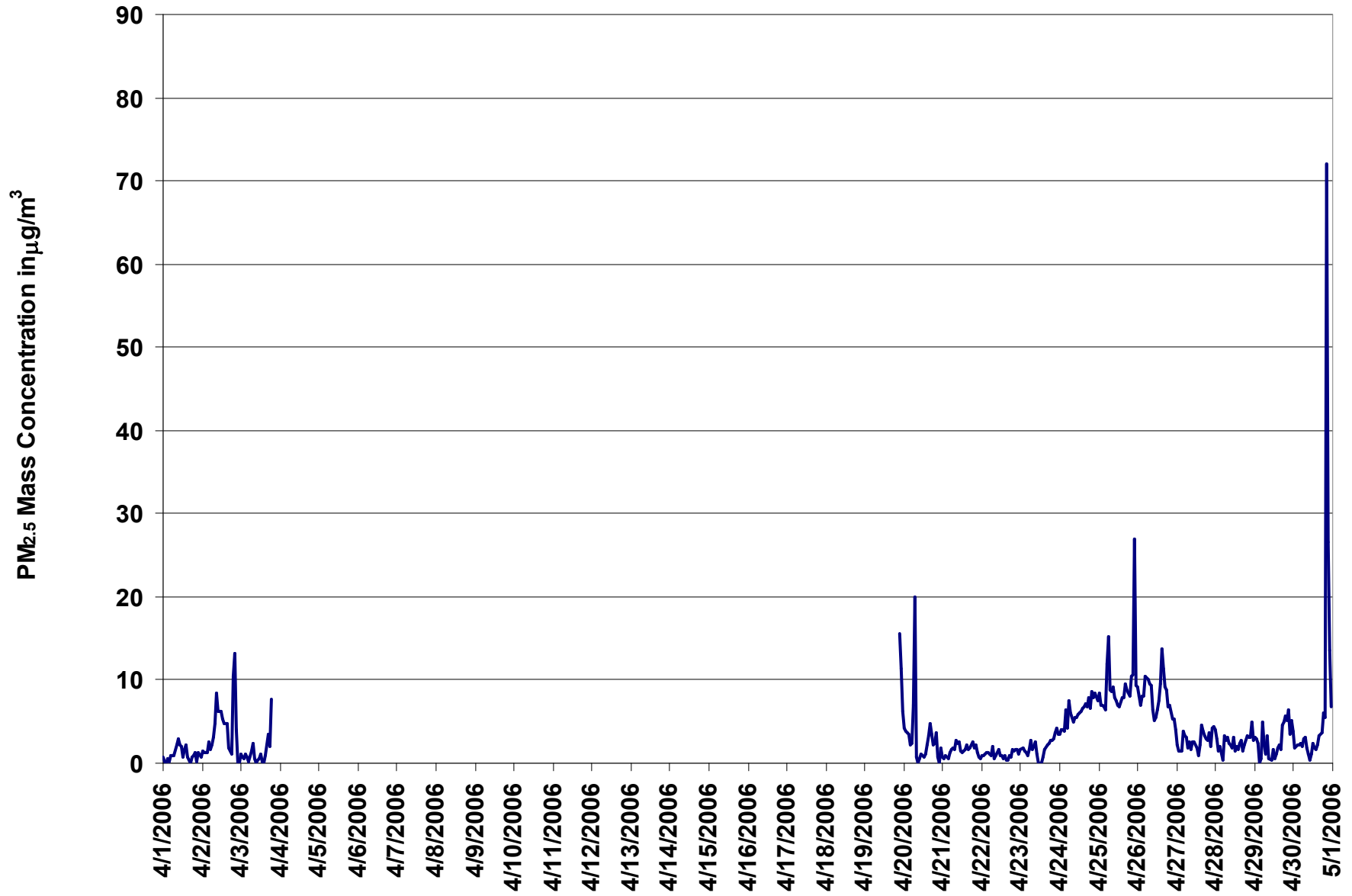


Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights  
 Station Owner: PASZA

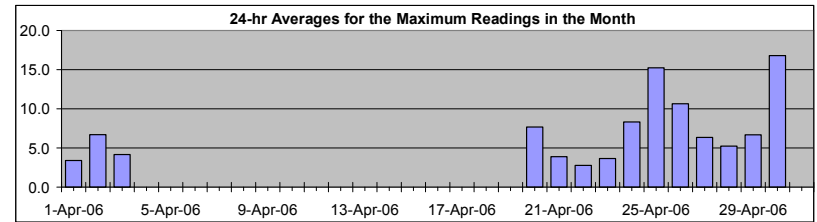
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Particulate Matter (PM<sub>2.5</sub>)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Average:	181.4	µg/m <sup>3</sup>	30-Apr	20:00 21:00
Maximum 24-hr Value:	16.8	µg/m <sup>3</sup>	30-Apr	



AIC Time:	0 hrs	Operational Time:	335 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	47.1%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	41.6	15.7	8.6	4.8	3.3	2.1	1.4	7.4 5 µg/m <sup>3</sup>	6.3 µg/m <sup>3</sup>

**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Apr-06	4	2	3	2	4	4	3	3	4	5	5	5	3	5	6	3	4	3	3	2	3	2	2	3	3.4	5.5	
2-Apr-06	3	3	3	3	5	3	3	5	6	10	9	9	8	8	7	7	4	5	5	18	19	15	1	3	6.7	19.4	
3-Apr-06	3	4	2	3	1	3	4	4	2	1	3	2	5	2	4	2	7	12	4	16	C	S	S	S	4.2	15.7	
4-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
5-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
6-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
7-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
8-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
9-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
10-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
11-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
12-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
13-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
14-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
15-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
16-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
17-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
18-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
19-Apr-06	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	C	C	C	27	16	9	N	26.7
20-Apr-06	6	6	6	7	4	4	38	44	3	1	2	6	2	5	3	5	10	6	5	5	9	4	2	3	7.7	43.6	
21-Apr-06	3	3	2	2	3	4	6	3	7	5	5	5	5	3	3	5	4	4	5	3	4	3	2	3	3.9	6.6	
22-Apr-06	2	2	3	2	2	2	2	3	2	2	5	3	2	2	3	2	2	2	3	4	3	4	3	3	2.8	5.3	
23-Apr-06	4	3	3	2	3	3	5	4	3	5	4	2	1	2	2	4	4	4	5	5	4	5	6	5	3.6	5.7	
24-Apr-06	5	6	6	5	11	6	9	8	7	7	7	8	8	9	9	9	8	9	12	12	11	9	11	10	8.3	11.7	
25-Apr-06	10	9	9	8	8	33	29	12	10	11	10	10	9	9	10	11	11	13	11	10	13	16	79	16	15.2	78.7	
26-Apr-06	11	9	9	10	10	17	13	12	11	9	8	8	8	10	15	21	14	12	11	11	9	7	7	6	10.6	21.4	
27-Apr-06	4	3	2	3	17	9	6	4	5	4	5	7	7	3	5	10	6	5	5	5	9	4	13	10	6.3	17.5	
28-Apr-06	7	6	3	4	3	11	8	6	5	4	3	6	4	4	3	6	8	3	4	6	7	4	7	4	5.2	11.3	
29-Apr-06	5	4	5	3	3	13	5	3	7	2	5	9	3	3	7	4	4	15	9	8	9	22	5	8	6.7	21.8	
30-Apr-06	7	3	4	4	4	3	5	6	4	4	2	5	6	5	6	5	5	6	13	9	181	75	26	15	16.8	181.4	
Hourly Avg	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Hourly Max	10.7	9.4	9.2	9.9	17.5	32.6	37.7	43.6	11.2	11.3	10.0	10.1	9.4	10.0	14.7	21.4	14.1	14.7	13.3	17.5	181.4	75.3	78.7	15.7			

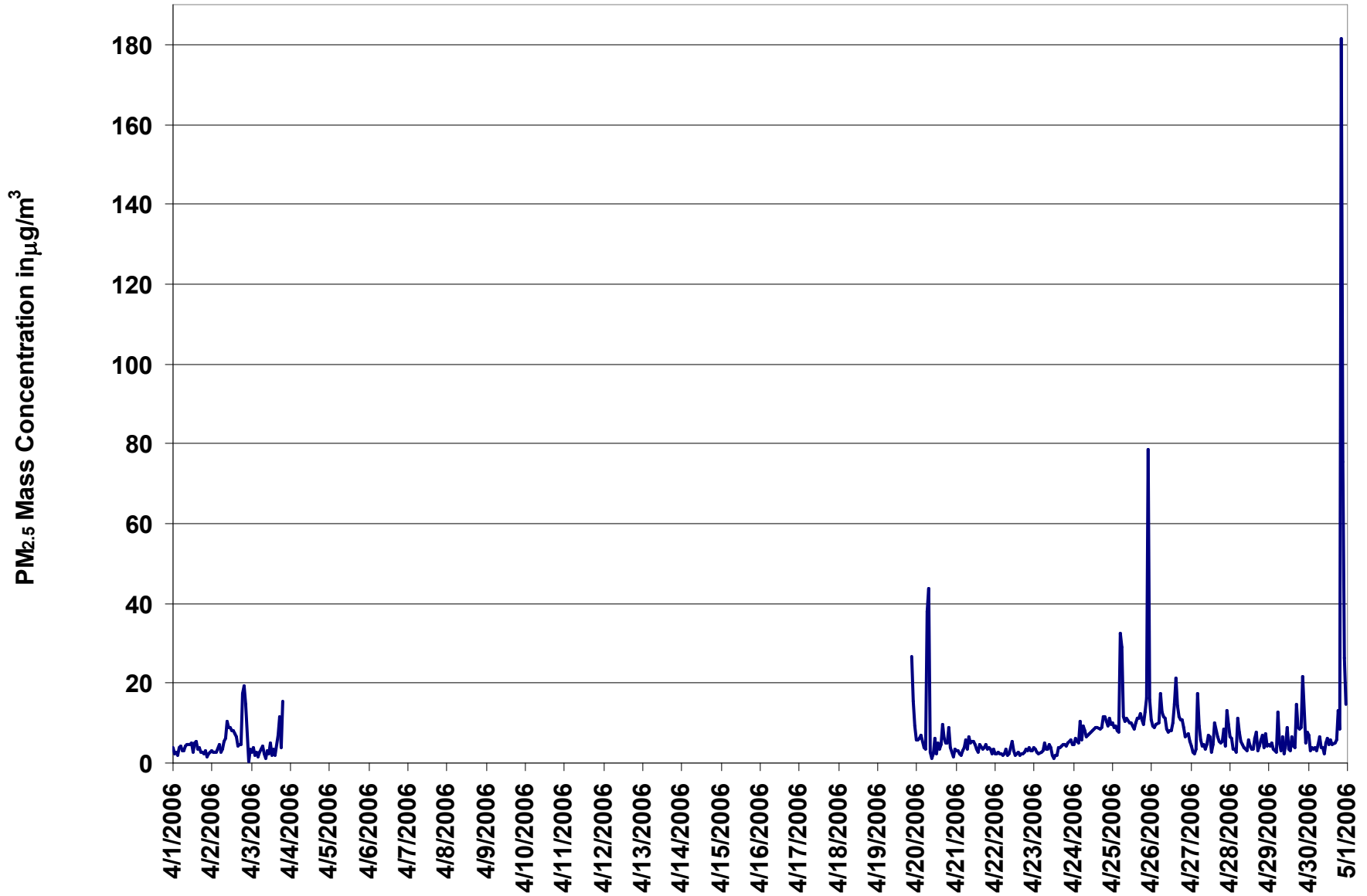
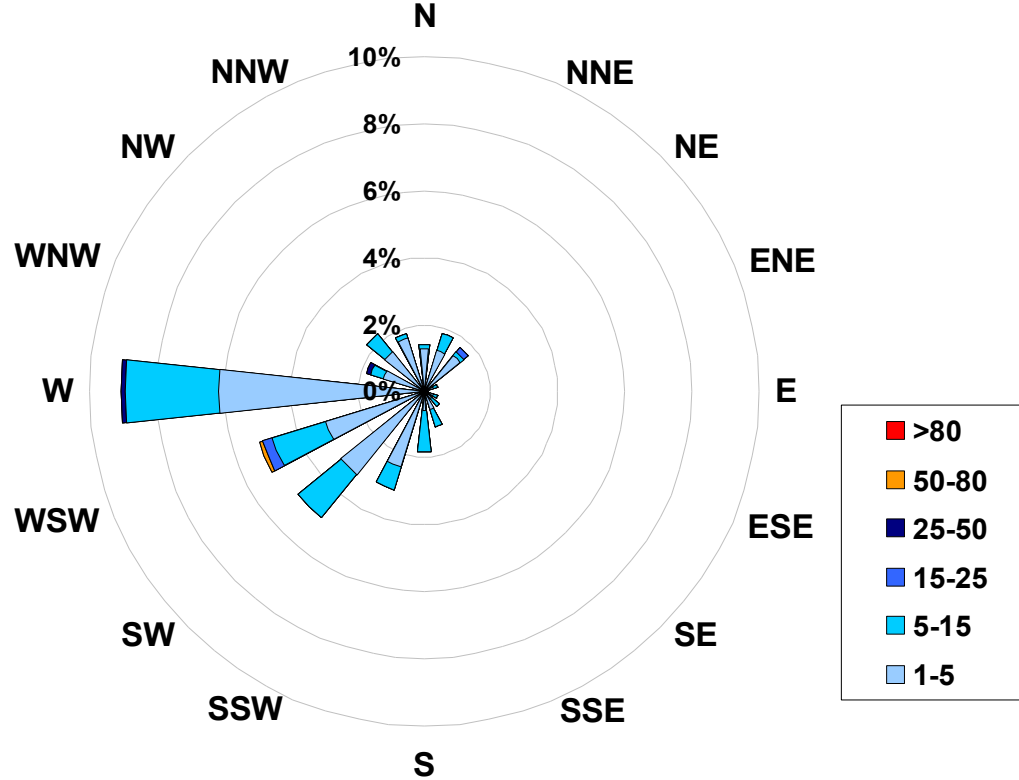


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

**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 April 2006**



**Calms: 0%**

Frequency Distribution of PM <sub>2.5</sub> in µg/m <sup>3</sup>			Frequency (hrs)
Range			
1.0	<	5	247
5	to	15	82
15	to	25	3
25	to	50	2
50	to	80	1
	>	80	0
Total Non-Zero Values			335

# PASZA - Smoky Heights - Temperature Monthly Summary

Station: Smoky Heights  
 Station Owner: PASZA

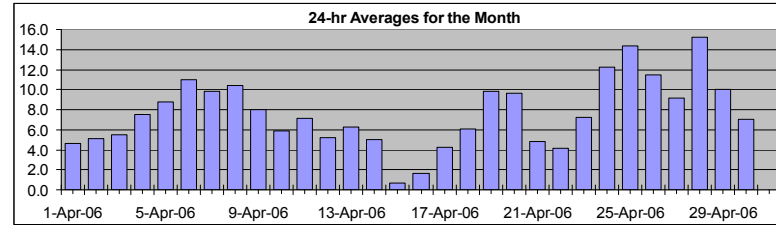
## HOURLY AVERAGE TABLE

## Ambient Temperature (T)

Monitoring Dates: April 1, 2006 to May 1, 2006

### Summary

Maximum 1-hr Average:	23.7	°C	28-Apr	17:00 18:00
Maximum 24-hr Average:	15.2	°C	28-Apr	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	22.5	17.8	11.9	7.3	2.9	-1.7	-5.6	7.6 °C	7.3 °C

### Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
1-Apr-06	1	2	2	1	2	1	1	2	1	2	3	5	7	9	9	10	10	10	10	8	6	5	5	4	4	4.6	9.9
2-Apr-06	2	2	1	0	0	-1	-1	0	3	5	6	8	9	11	11	11	11	12	11	9	8	6	5	2	1	5.1	11.9
3-Apr-06	1	1	0	0	-2	-2	-2	1	3	6	6	8	10	11	12	13	13	13	13	12	10	8	5	4	1	5.5	13.0
4-Apr-06	2	3	4	3	1	1	-1	2	4	8	10	12	13	13	14	14	14	14	14	14	11	8	4	6	6	7.5	14.3
5-Apr-06	5	2	0	2	3	2	0	2	6	7	9	12	14	15	15	16	17	17	15	13	11	10	10	9	8.8	16.6	
6-Apr-06	8	8	8	7	7	7	6	6	7	9	10	12	14	15	17	18	18	17	15	13	12	10	9	9	11.0	17.9	
7-Apr-06	8	5	2	2	2	2	2	3	7	9	12	14	16	16	16	17	17	17	17	14	10	10	8	9	9.8	17.4	
8-Apr-06	9	7	6	5	3	2	3	4	8	10	12	14	16	17	18	18	17	16	14	12	9	7	4	4	10.5	18.3	
9-Apr-06	4	2	3	5	6	7	6	6	8	9	9	10	11	12	12	13	12	12	11	9	8	7	6	4	8.0	12.8	
10-Apr-06	2	1	1	-1	-1	-1	0	1	3	6	7	9	10	11	12	12	13	12	12	10	8	6	3	3	5.9	12.6	
11-Apr-06	4	1	1	1	-1	-1	-2	1	4	8	10	11	12	13	13	14	14	14	13	10	7	8	8	7	7.1	14.3	
12-Apr-06	5	3	5	3	1	0	0	2	4	8	9	11	12	11	7	7	6	7	7	6	4	3	1	2	5.2	11.8	
13-Apr-06	3	2	1	1	0	-1	-1	2	4	6	7	9	10	11	12	13	13	12	11	10	9	8	6	5	6.3	13.0	
14-Apr-06	5	5	5	5	4	4	4	4	5	6	8	9	11	9	6	5	5	5	5	4	3	2	0	-2	5.0	11.2	
15-Apr-06	-3	-4	-5	-5	-7	-6	-5	-2	0	3	4	5	6	7	6	6	6	5	5	3	1	-1	-1	-3	0.7	6.9	
16-Apr-06	-5	-4	-6	-6	-7	-7	-6	-3	0	2	6	7	7	8	9	10	10	9	7	6	2	1	1	-1	1.7	9.9	
17-Apr-06	1	0	-2	-2	-3	-5	-3	2	4	6	8	8	9	11	10	10	10	10	9	8	6	3	2	0	4.3	10.7	
18-Apr-06	-3	-2	-2	-5	-4	-6	-4	1	5	8	11	12	13	14	14	15	16	16	16	13	10	4	3	2	6.1	16.1	
19-Apr-06	1	0	0	0	0	1	2	3	5	8	13	15	16	17	18	19	19	19	18	17	15	11	10	9	9.8	19.2	
20-Apr-06	6	5	6	6	4	4	4	6	8	9	11	13	15	16	16	15	13	13	12	12	11	10	9	7	9.6	16.5	
21-Apr-06	7	6	6	5	5	4	5	5	5	6	6	5	4	4	4	5	5	5	5	5	4	4	3	3	4.8	6.5	
22-Apr-06	3	2	2	2	1	1	1	2	2	2	4	6	7	8	9	10	10	9	8	5	3	2	0	0	4.2	10.0	
23-Apr-06	0	-2	-2	-3	-3	-3	-2	1	3	6	8	10	12	13	15	15	16	17	16	15	12	10	10	9	7.2	16.6	
24-Apr-06	6	6	3	2	2	1	1	4	7	10	14	17	19	20	22	22	22	23	22	20	15	12	13	10	12.3	22.6	
25-Apr-06	9	8	8	8	3	4	5	9	11	14	18	21	22	23	23	23	23	23	21	19	18	16	14	12	11	14.3	23.5
26-Apr-06	13	13	12	6	4	4	4	8	11	14	16	17	18	18	17	15	14	14	14	13	11	9	7	6	11.5	17.8	
27-Apr-06	5	4	3	1	1	2	4	7	9	10	11	12	13	14	15	15	16	15	14	13	12	8	8	7	9.1	15.7	
28-Apr-06	6	6	7	7	7	7	8	10	14	16	19	20	20	20	20	22	23	24	23	22	19	15	15	14	15.2	23.7	
29-Apr-06	14	14	13	12	10	9	9	8	8	9	10	10	11	11	12	12	12	11	11	9	9	7	6	3	10.0	14.3	
30-Apr-06	2	2	0	-1	-2	-2	0	4	7	10	11	11	12	12	13	13	13	14	13	12	8	4	4	7	7.0	13.5	
Hourly Avg	4.1	3.4	2.7	2.0	1.2	0.9	1.3	3.4	5.6	7.7	9.6	11.1	12.2	13.0	13.3	13.6	13.7	13.4	12.7	11.0	8.9	6.9	5.9	4.9			
Hourly Max	14.3	13.7	12.9	11.7	10.2	9.2	8.5	10.2	13.9	16.5	18.8	21.1	22.3	22.8	23.2	23.5	23.0	23.7	23.4	21.6	18.8	15.4	14.7	14.4			

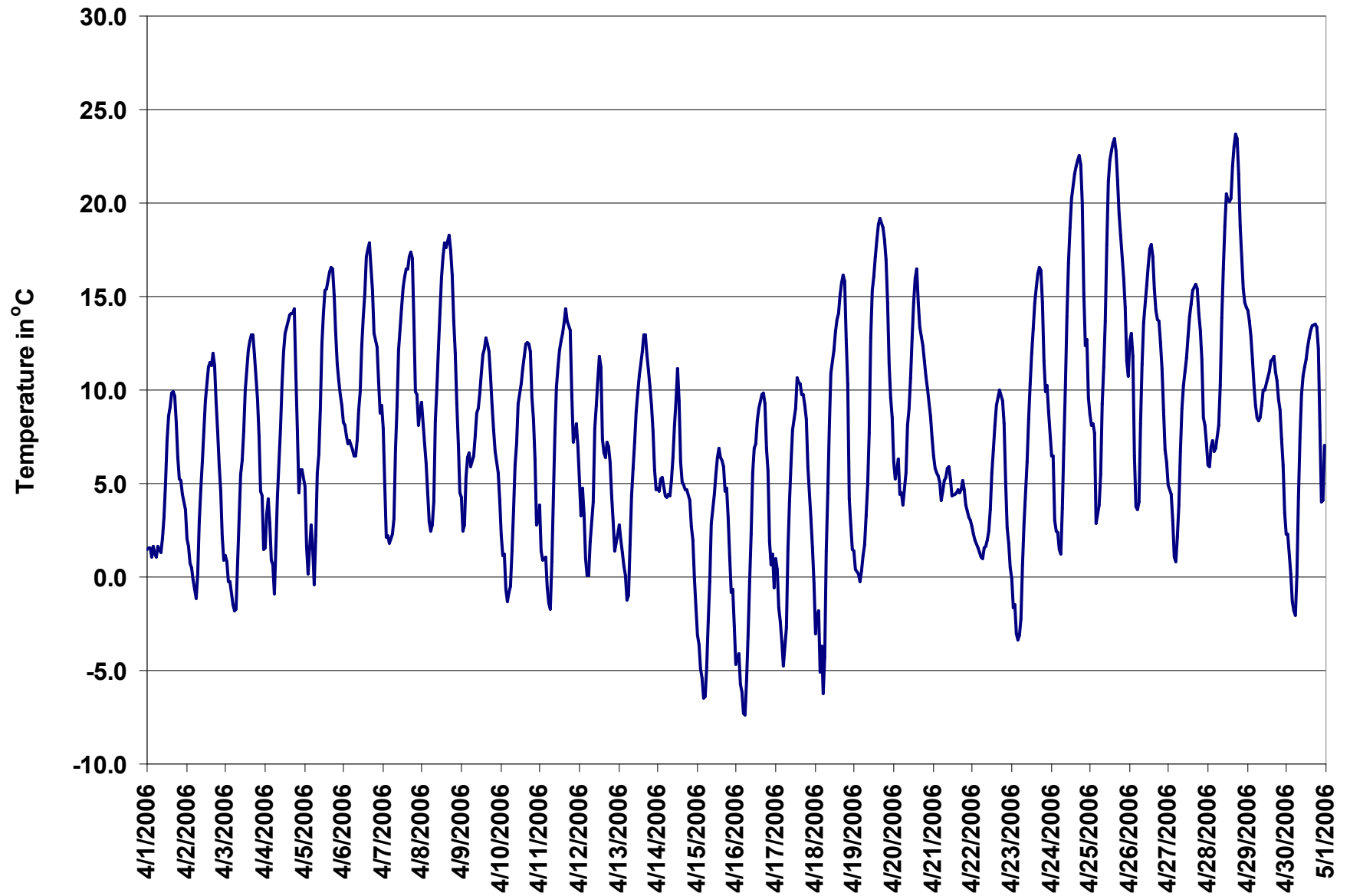


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend



# PASZA - Smoky Heights - Scalar Wind Speed Monthly Summary

Station: Smoky Heights  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

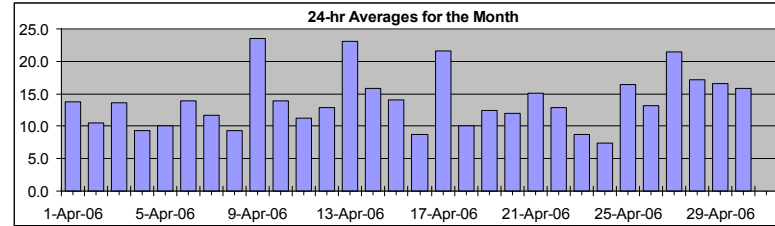
## Wind Speed (WSs)

Monitoring Dates: April 1, 2006 to May 1, 2006

### Summary

Maximum 1-hr Average:	40.2	km/hr	17-Apr	15:00 16:00
Maximum 24-hr Value:	23.5	km/hr	9-Apr	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	36.6	29.8	17.2	12.5	8.6	5.2	2.7	13.9 km/hr



### Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-06	6	7	8	7	9	9	10	14	13	11	14	15	16	18	18	19	19	18	18	17	14	16	16	17	13.7	18.9
2-Apr-06	14	12	11	9	9	10	9	7	6	10	9	8	7	8	6	6	6	10	10	13	27	20	12	13	10.5	26.8
3-Apr-06	15	12	12	12	10	9	11	11	13	16	23	22	23	24	23	20	18	15	9	4	9	6	5	4	13.6	24.2
4-Apr-06	5	9	8	6	11	9	9	8	9	12	14	16	14	15	14	15	10	7	2	3	5	3	9	8	9.3	15.9
5-Apr-06	6	5	5	7	5	2	4	4	5	7	9	8	10	13	15	16	14	16	15	15	14	13	15	17	10.0	16.5
6-Apr-06	15	16	13	9	12	13	14	15	12	14	13	10	13	13	21	18	20	14	12	13	14	14	13	14	14.0	20.6
7-Apr-06	16	15	14	15	13	10	11	8	8	12	13	12	16	18	17	13	9	6	5	7	8	11	12	13	11.7	17.5
8-Apr-06	13	9	8	8	5	2	5	3	6	9	12	22	22	17	11	9	8	6	13	9	9	9	6	4	9.3	22.4
9-Apr-06	7	9	11	10	13	16	16	24	33	31	32	32	31	29	30	31	38	37	32	24	21	21	19	17	23.5	38.2
10-Apr-06	16	16	17	16	17	18	15	16	17	11	16	20	17	19	16	15	13	14	11	7	7	7	4	10	13.9	19.6
11-Apr-06	9	6	9	16	17	11	7	10	8	6	7	18	20	21	20	16	9	8	9	7	10	11	7	8	11.3	21.2
12-Apr-06	7	7	9	9	6	10	6	7	9	18	16	14	13	15	21	9	12	13	15	26	24	16	13	17	12.9	25.8
13-Apr-06	25	30	27	24	20	14	12	21	31	34	36	38	36	34	27	25	26	22	16	14	12	12	9	8	23.0	37.6
14-Apr-06	13	12	14	13	13	12	13	9	10	9	10	8	11	25	38	28	17	25	15	18	14	18	18	19	15.9	37.9
15-Apr-06	18	16	7	8	12	12	11	12	16	19	20	20	15	18	18	15	16	18	13	10	8	11	11	11	14.1	20.4
16-Apr-06	9	9	6	6	7	7	7	9	7	6	6	6	11	11	9	9	8	12	12	9	6	10	14	12	8.7	13.7
17-Apr-06	17	15	12	12	10	9	11	13	19	24	30	33	28	35	35	40	36	34	28	23	17	13	12	11	21.6	40.2
18-Apr-06	7	7	7	4	4	3	5	5	8	12	21	20	17	19	19	15	14	10	7	10	7	7	8	8	10.1	20.8
19-Apr-06	5	9	8	4	7	5	5	5	7	14	19	22	19	21	19	16	12	16	16	13	12	14	16	14	12.4	21.8
20-Apr-06	11	12	12	10	8	7	3	2	11	11	9	7	6	9	12	23	21	19	17	14	11	14	18	18	12.0	22.6
21-Apr-06	20	18	21	21	13	3	7	6	10	10	16	20	20	22	18	12	16	14	14	17	15	17	14	17	15.1	21.8
22-Apr-06	20	20	20	18	19	19	21	18	18	16	15	11	7	8	10	8	8	9	10	8	6	7	6	7	12.9	20.9
23-Apr-06	9	9	7	9	8	8	7	9	10	8	10	10	10	10	9	10	9	8	9	7	5	7	10	8	8.7	10.4
24-Apr-06	3	4	9	10	7	8	8	9	9	8	9	9	10	11	10	10	9	5	5	6	3	5	5	5	7.4	10.6
25-Apr-06	8	8	7	7	3	7	9	10	13	12	11	14	25	22	19	15	30	39	35	29	27	22	11	12	16.5	38.9
26-Apr-06	14	15	13	7	6	8	8	7	6	5	5	7	8	7	18	32	20	17	18	24	23	16	15	18	13.2	31.8
27-Apr-06	19	15	15	10	13	14	15	26	36	39	38	33	32	28	25	26	26	22	16	14	10	8	9	21.5	38.8	
28-Apr-06	8	13	14	12	14	10	11	12	15	20	26	28	27	24	19	17	17	12	13	16	20	18	21	23	17.1	27.5
29-Apr-06	30	22	22	32	32	31	24	21	19	15	9	6	9	12	12	10	7	11	14	16	14	10	10	10	16.6	32.0
30-Apr-06	16	16	17	17	17	17	15	15	17	22	23	23	18	16	16	18	17	17	15	9	5	8	12	15	15.8	23.2
1-hr Average	12.7	12.5	12.1	11.6	11.4	10.5	10.3	11.3	13.4	14.7	16.4	17.0	17.1	18.0	18.2	17.2	16.2	15.9	14.4	13.5	12.8	12.2	11.5	12.1		
Hourly Max	30.0	29.7	26.7	32.0	31.8	30.8	23.7	26.1	35.9	38.8	37.8	37.6	35.7	34.7	37.9	40.2	38.2	38.9	34.8	29.2	27.0	21.7	20.7	23.1		

## PASZA - Smoky Heights - Vector Wind Speed Monthly Summary

Station: Smoky Heights  
 Station Owner: PASZA

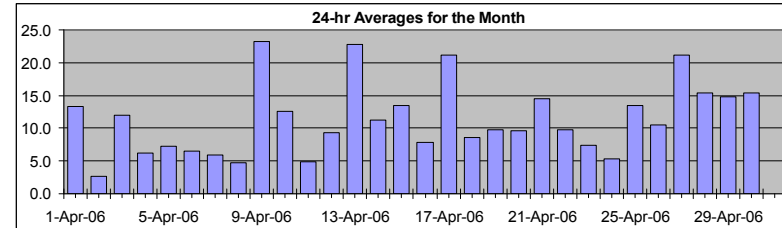
### HOURLY AVERAGE TABLE

### Wind Speed (WSv)

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Average:	39.4	km/hr	17-Apr	15:00 16:00
Maximum 24-hr Value:	23.3	km/hr	9-Apr	



Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	36.4	29.5	16.9	12.1	7.9	4.2	2.0	8.5 km/hr

**Status Flag Characters**

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

Day	Mountain Standard Time																								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-Apr-06	5	7	8	7	9	8	10	14	13	11	14	15	16	18	18	18	19	18	18	17	14	16	15	16	13.3	18.7
2-Apr-06	14	12	11	9	9	10	8	7	6	10	9	7	6	7	5	5	6	10	9	12	26	20	12	12	2.6	26.4
3-Apr-06	15	12	12	12	9	9	11	11	13	15	23	22	23	24	23	19	17	15	9	4	9	6	4	2	11.9	23.7
4-Apr-06	5	9	8	4	11	7	8	8	9	11	14	16	13	14	13	14	9	7	2	3	4	3	9	8	6.2	15.6
5-Apr-06	6	5	4	7	5	2	3	4	5	7	9	8	10	12	15	15	13	15	15	14	13	15	16	7.2	16.5	
6-Apr-06	15	16	13	9	12	13	14	15	12	14	12	9	12	13	20	17	19	14	11	13	13	13	14	6.6	20.0	
7-Apr-06	15	15	14	15	13	9	10	8	8	12	12	11	15	17	16	12	7	5	5	7	8	10	12	13	6.0	17.0
8-Apr-06	12	9	8	8	4	1	5	3	4	9	11	21	22	15	10	7	5	5	13	7	8	9	6	1	4.7	21.8
9-Apr-06	7	8	10	7	11	16	16	24	32	30	32	31	31	28	30	31	38	36	32	24	21	21	19	17	23.3	37.8
10-Apr-06	16	16	17	16	17	18	15	16	16	11	16	19	16	18	15	14	12	12	9	6	7	7	3	9	12.6	19.0
11-Apr-06	9	5	9	16	17	11	7	10	8	5	6	18	20	20	19	14	8	8	9	7	10	10	5	6	4.9	20.2
12-Apr-06	7	7	9	9	4	9	5	6	9	18	16	13	11	14	19	4	10	12	14	25	24	16	13	17	9.4	25.4
13-Apr-06	25	30	27	23	20	13	12	21	31	34	36	37	35	33	26	25	24	22	16	14	12	12	8	7	22.7	37.1
14-Apr-06	13	11	14	13	13	12	13	9	10	9	9	7	4	24	38	27	17	25	15	18	14	18	18	19	11.2	37.7
15-Apr-06	18	16	7	7	12	12	11	12	16	19	19	14	17	17	13	16	18	12	10	8	11	10	10	10	13.5	19.5
16-Apr-06	9	9	5	5	7	6	7	9	7	5	4	4	10	9	7	7	11	12	9	6	10	14	12	7.8	13.6	
17-Apr-06	17	15	12	12	10	9	10	13	18	24	30	32	26	34	34	39	35	34	28	23	17	13	12	11	21.2	39.4
18-Apr-06	6	6	7	4	3	2	5	4	8	11	20	19	15	18	18	14	12	9	5	10	7	7	8	8	8.6	20.2
19-Apr-06	5	8	8	4	7	5	5	5	7	14	18	21	18	20	18	15	11	15	15	10	12	14	16	14	9.8	20.8
20-Apr-06	10	12	11	10	8	5	2	1	11	11	9	5	3	6	11	22	21	18	16	14	11	14	18	18	9.6	22.3
21-Apr-06	20	18	20	21	13	2	5	6	10	9	16	19	20	22	18	12	16	14	14	17	14	17	14	17	14.5	21.5
22-Apr-06	20	20	20	18	18	19	21	18	18	16	15	11	6	6	9	5	5	7	10	7	6	6	6	7	9.8	20.7
23-Apr-06	9	9	7	9	8	7	7	9	10	8	10	10	9	9	8	8	9	7	9	7	5	7	10	7	7.3	10.4
24-Apr-06	1	3	8	9	7	8	8	9	9	7	9	8	9	9	9	8	7	3	5	6	3	5	5	5	5.4	9.4
25-Apr-06	8	8	7	7	2	7	9	10	13	10	10	13	24	22	17	12	29	39	35	29	27	22	11	12	13.4	38.7
26-Apr-06	14	15	13	6	5	8	6	7	6	4	3	3	6	4	16	32	18	16	18	24	23	16	14	18	10.5	31.5
27-Apr-06	19	14	15	10	13	14	15	26	36	39	37	33	32	27	25	26	26	25	22	16	14	10	7	8	21.2	38.5
28-Apr-06	8	12	14	12	14	9	11	12	15	18	25	27	26	24	19	16	17	11	13	16	20	18	21	23	15.4	26.7
29-Apr-06	30	22	22	32	32	31	23	20	19	13	7	5	8	10	11	9	7	11	13	16	13	10	10	10	14.8	31.9
30-Apr-06	16	16	17	17	17	17	15	15	16	21	22	22	17	15	15	17	16	16	15	9	4	8	12	14	15.4	22.4
1-hr Vector	7.5	7.2	7.0	6.8	7.2	6.6	6.1	7.2	7.9	9.3	11.0	11.9	12.4	13.2	13.4	11.9	10.7	10.4	8.7	8.0	6.8	5.9	5.4	6.8		
Hourly Max	30.0	29.7	26.6	31.9	31.5	30.6	23.5	26.0	35.8	38.5	37.2	37.1	35.1	33.7	37.7	39.4	37.8	38.7	34.7	29.2	26.9	21.6	20.6	23.0		

## PASZA - Smoky Heights - Wind Direction Monthly Summary

Station: Smoky Heights  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	352.1	326.2	266.1	245.2	188.5	29.9	11.8	257 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 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-Apr-06	31	30	25	28	23	27	36	34	37	27	28	35	45	37	36	50	57	64	60	61	56	56	50	54	44	NE
2-Apr-06	34	42	37	10	23	25	20	22	38	154	170	186	177	177	159	219	257	273	286	259	258	270	264	244	281	WNW
3-Apr-06	243	254	219	227	232	228	228	245	231	239	236	248	252	262	263	267	268	265	255	251	12	27	10	284	252	WSW
4-Apr-06	281	296	297	228	269	258	208	205	219	215	242	257	253	265	274	255	257	299	146	81	55	87	30	47	258	WSW
5-Apr-06	29	360	322	249	229	278	277	237	176	151	158	146	163	123	117	121	101	96	128	133	132	129	126	135	131	SE
6-Apr-06	143	135	121	97	97	113	125	138	153	182	206	215	257	261	265	270	261	237	244	274	266	250	268	278	216	SW
7-Apr-06	279	280	274	280	269	252	263	221	192	187	198	217	246	257	265	283	287	322	39	41	39	52	53	72	265	W
8-Apr-06	76	34	20	33	14	328	29	353	150	163	142	150	151	151	163	211	169	205	156	169	69	30	30	256	132	SE
9-Apr-06	263	242	255	245	243	271	267	260	264	261	252	252	256	254	256	246	252	248	249	250	260	266	267	260	255	WSW
10-Apr-06	265	260	254	274	272	276	269	270	268	249	255	260	269	262	264	265	261	263	281	336	1	21	12	296	270	W
11-Apr-06	330	197	263	275	273	274	222	233	227	181	147	241	247	252	248	263	11	39	38	45	43	62	84	40	264	W
12-Apr-06	27	15	19	26	312	293	196	206	193	245	239	246	269	243	280	273	212	193	208	265	251	257	259	250	253	WSW
13-Apr-06	248	248	249	245	250	245	256	246	246	249	245	252	255	256	250	240	243	263	253	243	220	216	243	219	247	WSW
14-Apr-06	213	189	194	190	192	184	183	181	171	168	166	157	233	292	296	296	292	260	242	239	235	249	258	272	241	WSW
15-Apr-06	272	271	260	242	276	268	239	235	256	247	258	251	247	253	249	228	260	287	253	249	230	244	211	249	253	WSW
16-Apr-06	280	252	206	243	268	220	261	260	183	195	256	244	270	260	247	184	219	204	248	262	259	241	264	259	244	WSW
17-Apr-06	257	242	248	229	255	232	253	240	245	252	255	249	246	243	266	271	264	268	259	254	246	259	257	264	255	WSW
18-Apr-06	241	261	263	265	333	229	234	214	185	190	209	212	226	210	199	200	195	202	240	279	286	297	264	250	224	SW
19-Apr-06	246	230	259	219	218	200	217	242	218	189	184	204	211	199	232	166	150	158	156	170	258	256	274	275	209	SSW
20-Apr-06	270	276	328	351	33	68	88	36	19	27	40	51	156	314	354	352	355	354	5	359	8	336	352	326	354	N
21-Apr-06	332	333	324	329	339	302	16	345	337	334	326	333	332	331	326	310	292	285	295	307	318	334	345	324	325	NW
22-Apr-06	321	326	322	328	333	335	321	326	339	332	321	334	345	259	253	275	240	236	237	198	196	227	255	223	309	NW
23-Apr-06	222	218	222	227	222	215	232	197	194	185	167	182	182	175	187	204	192	182	143	129	74	117	157	164	187	S
24-Apr-06	110	187	241	226	231	207	194	209	202	188	171	164	174	192	217	229	231	206	192	146	111	33	63	9	198	SSW
25-Apr-06	22	20	30	38	338	247	243	215	219	221	225	235	260	257	255	243	271	267	267	271	271	286	301	315	265	W
26-Apr-06	317	322	325	222	228	269	237	246	188	168	183	147	141	299	271	270	278	269	265	272	261	253	260	265	266	W
27-Apr-06	265	263	252	267	255	265	263	261	266	271	268	266	270	270	268	268	269	257	268	265	266	236	210	238	264	W
28-Apr-06	266	215	205	228	228	224	205	206	182	201	221	226	224	218	200	195	201	210	238	263	260	267	273	270	227	SW
29-Apr-06	279	279	301	303	294	286	288	311	303	319	304	245	253	217	253	269	230	231	242	258	240	234	246	267	278	W
30-Apr-06	267	265	269	268	269	271	271	265	250	249	262	256	263	256	248	239	268	261	250	270	251	281	287	313	263	W
Hourly Avg	280	272	276	274	272	264	254	250	241	236	237	239	245	249	258	255	257	255	249	260	266	273	278	277		

## PASZA - Smoky Heights - Standard Deviation of Wind Direction Monthly Summary

Station: Smoky Heights  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**


Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	53.2	37.6	15.6	8.8	5.3	2.8	2.1

**Status Flag Characters**

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

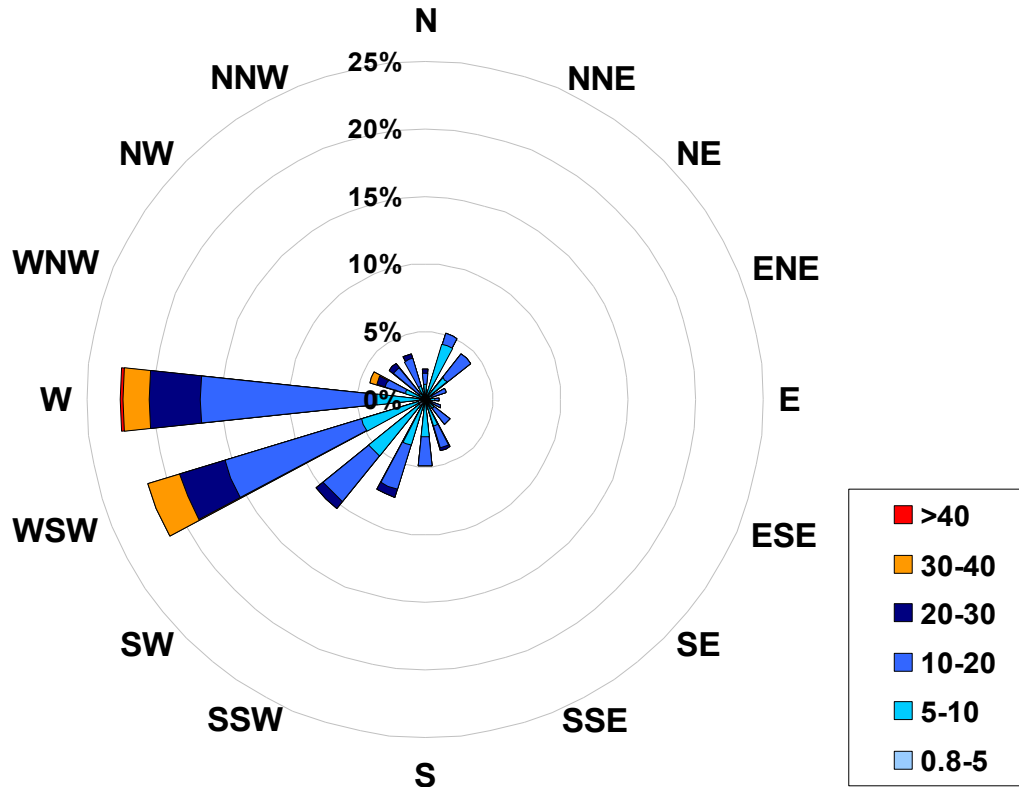
**Day Mountain Standard Time**

Hour Start	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-Apr-06	8	13	6	6	8	8	4	4	4	5	5	7	8	9	9	8	6	5	3	5	5	7	7		
2-Apr-06	4	3	4	5	6	5	5	9	14	16	12	23	25	30	31	27	18	9	9	13	5	3	5	14	
3-Apr-06	6	8	4	5	9	9	4	5	5	7	4	6	7	10	9	10	9	7	6	7	14	14	9	43	
4-Apr-06	15	6	5	24	9	32	9	5	8	15	9	10	19	20	19	16	23	22	38	15	10	14	5	8	
5-Apr-06	7	15	18	10	12	21	18	15	17	16	14	22	16	15	15	20	18	15	8	3	3	5	5	4	
6-Apr-06	5	7	6	12	8	5	6	4	5	7	13	24	19	18	12	18	13	5	3	4	5	4	5	3	
7-Apr-06	5	3	2	3	4	8	12	8	9	8	16	21	18	14	18	15	48	25	11	8	7	12	8	8	
8-Apr-06	8	8	6	5	20	72	19	22	26	11	12	10	11	20	51	34	51	29	11	18	12	5	11	36	
9-Apr-06	7	10	9	18	11	4	4	5	4	6	7	7	9	11	10	10	7	6	4	3	3	3	2	3	
10-Apr-06	4	3	2	4	2	2	3	5	11	9	14	15	17	15	18	27	22	16	17	7	10	20	19		
11-Apr-06	10	18	17	3	3	28	13	5	13	28	45	23	14	19	19	20	32	24	7	7	3	23	39	43	
12-Apr-06	10	8	6	12	19	12	30	11	12	7	8	18	21	19	9	35	17	7	12	4	3	4	4	2	
13-Apr-06	3	3	3	3	4	5	8	3	6	7	7	10	9	11	11	11	9	6	6	8	5	11	5	13	
14-Apr-06	2	4	3	4	4	4	3	8	8	10	11	17	27	11	6	9	10	5	6	3	2	3	2	3	
15-Apr-06	2	3	10	12	6	4	5	5	6	9	14	17	21	14	14	23	11	10	18	8	4	5	9	6	
16-Apr-06	6	19	16	17	6	15	8	10	12	23	47	53	21	35	49	42	42	18	4	4	6	6	6	10	
17-Apr-06	3	3	10	5	8	8	7	6	6	7	8	8	14	9	11	8	8	6	7	4	2	3	5	4	
18-Apr-06	11	6	7	21	30	27	11	12	12	12	12	16	23	19	23	16	31	29	31	4	5	4	8	3	
19-Apr-06	7	9	7	17	14	17	16	19	14	8	9	11	16	10	18	19	23	12	12	25	3	3	4	4	
20-Apr-06	6	2	9	15	14	15	48	62	9	12	16	51	52	41	17	9	8	9	8	7	7	8	12	5	
21-Apr-06	6	7	6	5	17	52	20	20	16	14	12	9	7	8	6	8	7	6	5	7	6	6	7	6	
22-Apr-06	6	6	6	7	8	6	6	8	9	10	14	18	47	43	29	57	46	39	14	8	4	11	10	11	
23-Apr-06	10	5	9	2	4	6	5	8	12	16	15	20	27	28	38	35	23	26	12	5	7	12	6	28	
24-Apr-06	45	45	14	7	13	9	4	8	10	15	15	18	29	32	36	46	38	56	15	7	16	16	11	10	
25-Apr-06	3	5	7	10	13	6	5	6	9	17	15	19	10	12	21	33	9	6	4	2	2	2	3	4	
26-Apr-06	3	3	5	30	19	9	19	8	20	40	58	62	47	62	38	6	17	25	7	3	4	3	3	4	
27-Apr-06	3	3	3	6	5	9	5	5	5	7	9	9	12	11	13	12	9	11	5	5	5	5	14	8	
28-Apr-06	8	6	4	7	6	13	7	5	6	13	14	11	10	11	10	14	11	14	11	5	3	2	2	4	
29-Apr-06	3	4	5	5	6	5	6	7	8	14	30	35	28	28	27	28	31	15	8	8	10	6	4	4	
30-Apr-06	2	2	2	2	2	2	2	4	8	11	14	12	17	21	29	21	15	16	12	9	8	4	3	9	

Daily Maximum
12.6
31.0
42.5
37.6
22.2
24.1
48.5
71.6
17.7
27.3
45.3
35.4
12.7
26.9
23.2
53.4
14.0
31.4
24.8
61.6
52.5
56.8
38.2
56.4
32.7
62.5
14.0
14.4
35.4
29.4

Hourly Max	45	45	18	30	30	72	48	62	26	40	58	62	52	62	51	57	51	56	38	25	16	23	39	43
------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

**1-hr Average Wind Rose (in km/hr) Located at the Smoky Heights Site for April 2006**



**Calms: 0%**

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	30
5	to	10	225
10	to	20	353
20	to	30	76
30	to	40	35
	>	40	1
Total Non-Zero Values			720

# PASZA - Beaverlodge

## Monthly Summary Tables, Graphs, and Roses

## PASZA - Beaverlodge - AQI Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

### Air Quality Index (AQI)

Monitoring Dates: April 1, 2006 to May 1, 2006

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:	547
Number of 1-hr Fair Readings:	136
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
1-Apr-06	25	24	24	23	N	22	22	21	16	17	21	25	27	27	27	27	26	25	23	23	23	24	25	25
2-Apr-06	24	25	23	23	N	18	16	15	17	17	17	19	22	23	25	25	24	25	22	24	23	19	18	17
3-Apr-06	14	11	11	12	N	12	11	12	11	12	15	20	22	N	25	25	26	25	22	21	20	21	21	21
4-Apr-06	20	16	15	16	N	15	15	11	15	16	15	19	23	25	26	27	27	27	25	23	23	23	21	20
5-Apr-06	19	16	14	16	N	10	5	7	8	11	19	18	21	19	22	26	30	30	29	25	21	21	22	23
6-Apr-06	22	22	22	22	N	19	18	17	12	16	17	19	21	25	27	27	26	26	25	25	23	23	25	26
7-Apr-06	24	25	22	19	N	20	21	14	15	16	21	27	30	30	30	31	30	30	30	26	26	27	28	27
8-Apr-06	24	25	24	22	N	19	12	15	14	15	19	23	25	30	30	31	29	27	24	23	24	21	20	20
9-Apr-06	20	22	23	N	N	32	30	28	30	30	31	27	26	25	25	25	24	24	24	23	22	23	23	23
10-Apr-06	23	22	20	19	N	18	18	14	18	22	25	26	26	27	28	28	28	28	27	24	23	21	23	22
11-Apr-06	22	22	17	17	N	16	14	13	4	1	N	N	N	27	28	27	27	27	26	22	23	22	21	23
12-Apr-06	23	21	20	16	N	13	16	15	14	16	20	N	24	22	22	21	N	24	25	25	24	23	24	24
13-Apr-06	24	23	21	19	N	18	17	18	21	23	23	23	24	24	24	24	25	26	27	23	22	22	21	21
14-Apr-06	19	20	19	19	N	17	17	17	17	18	19	24	25	24	24	24	24	23	23	23	22	21	19	19
15-Apr-06	20	19	18	16	N	15	14	16	19	20	22	23	23	23	23	23	22	21	20	20	20	19	19	19
16-Apr-06	19	18	16	18	N	18	19	14	15	17	21	24	24	24	24	24	25	25	24	22	21	22	20	20
17-Apr-06	19	18	17	17	N	16	15	15	17	20	22	23	23	23	22	22	22	22	22	21	20	19	18	19
18-Apr-06	19	18	17	16	N	17	16	15	18	20	23	24	25	26	26	26	25	23	22	20	21	20	19	19
19-Apr-06	18	18	19	17	N	17	17	17	19	21	23	25	26	28	27	26	24	24	24	23	22	22	22	22
20-Apr-06	22	21	21	20	N	19	16	18	22	22	23	24	24	24	23	23	22	23	22	21	20	20	21	21
21-Apr-06	19	19	21	19	N	17	16	16	17	18	19	20	21	21	21	21	21	20	21	19	20	19	17	17
22-Apr-06	17	17	17	17	N	17	17	17	19	21	22	22	23	23	24	24	23	23	22	21	19	17	18	16
23-Apr-06	15	15	15	15	N	15	15	14	14	16	18	22	23	24	25	27	28	29	26	24	24	24	25	24
24-Apr-06	23	19	18	16	N	15	14	15	16	19	23	27	28	29	32	33	34	36	33	30	30	27	28	28
25-Apr-06	27	24	21	14	N	16	14	13	17	20	25	29	34	35	34	32	33	35	32	28	26	28	28	26
26-Apr-06	25	21	20	20	N	16	13	15	19	28	33	33	32	32	32	34	32	31	29	27	25	23	22	22
27-Apr-06	21	20	20	19	N	17	20	23	24	25	25	26	27	29	29	30	31	30	28	25	23	21	22	22
28-Apr-06	22	21	21	20	N	17	18	19	20	21	21	22	22	22	19	19	18	18	18	17	16	16	16	17
29-Apr-06	17	16	18	20	N	24	25	27	27	28	28	27	30	31	31	32	31	29	26	23	23	23	20	20
30-Apr-06	20	19	19	19	N	17	16	17	19	22	23	23	24	25	28	29	29	28	28	25	22	21	22	22

# PASZA - Beaverlodge - Sulphur Dioxide Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

## Sulphur Dioxide (SO<sub>2</sub>)

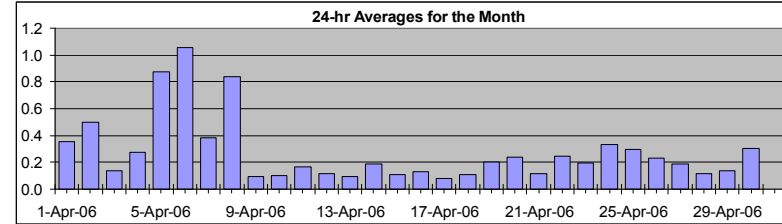
Monitoring Dates: April 1, 2006 to May 1, 2006

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:	2.4	ppb	5-Apr	13:00	14:00
Maximum 24-hr Average:	1.1	ppb	6-Apr		

AIC Time:	31 hrs		Operational Time:	686 hrs					
Calibration Time:	3 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	1.8	0.9	0.3	0.2	0.1	0.0	0.0	0.3 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-Apr-06	0	0	0	0	A	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
2-Apr-06	0	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0.5	0.8
3-Apr-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
4-Apr-06	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	1.8	
5-Apr-06	1	0	0	0	A	0	0	0	1	1	1	1	1	2	2	2	1	1	1	1	1	0	0	1	0.9	2.4	
6-Apr-06	2	2	2	2	A	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1.1	2.3	
7-Apr-06	0	0	0	0	A	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.4	1.8	
8-Apr-06	0	0	1	1	A	1	1	1	1	1	1	1	1	1	2	1	0	0	1	1	1	1	0	0	0.8	2.2	
9-Apr-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
10-Apr-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
11-Apr-06	0	0	0	0	A	0	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0.2	0.5	
12-Apr-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
13-Apr-06	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	
14-Apr-06	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9	
15-Apr-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
16-Apr-06	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	
17-Apr-06	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	0.1	
18-Apr-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
19-Apr-06	0	0	0	0	A	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7	
20-Apr-06	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7	
21-Apr-06	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	
22-Apr-06	0	1	1	0	A	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6	
23-Apr-06	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	0.4	
24-Apr-06	0	0	0	0	A	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.4	
25-Apr-06	0	0	0	0	A	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0.3	0.7	
26-Apr-06	0	0	0	0	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.2	0.5	
27-Apr-06	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8	
28-Apr-06	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	
29-Apr-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
30-Apr-06	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	
Hourly Avg	0.2	0.3	0.3	0.3	N	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
Hourly Max	1.5	2.1	2.3	2.2	0.0	1.8	1.8	1.8	1.8	1.9	1.8	1.4	1.4	2.4	2.0	2.2	1.4	0.8	0.7	1.1	1.1	1.0	0.7	1.8			



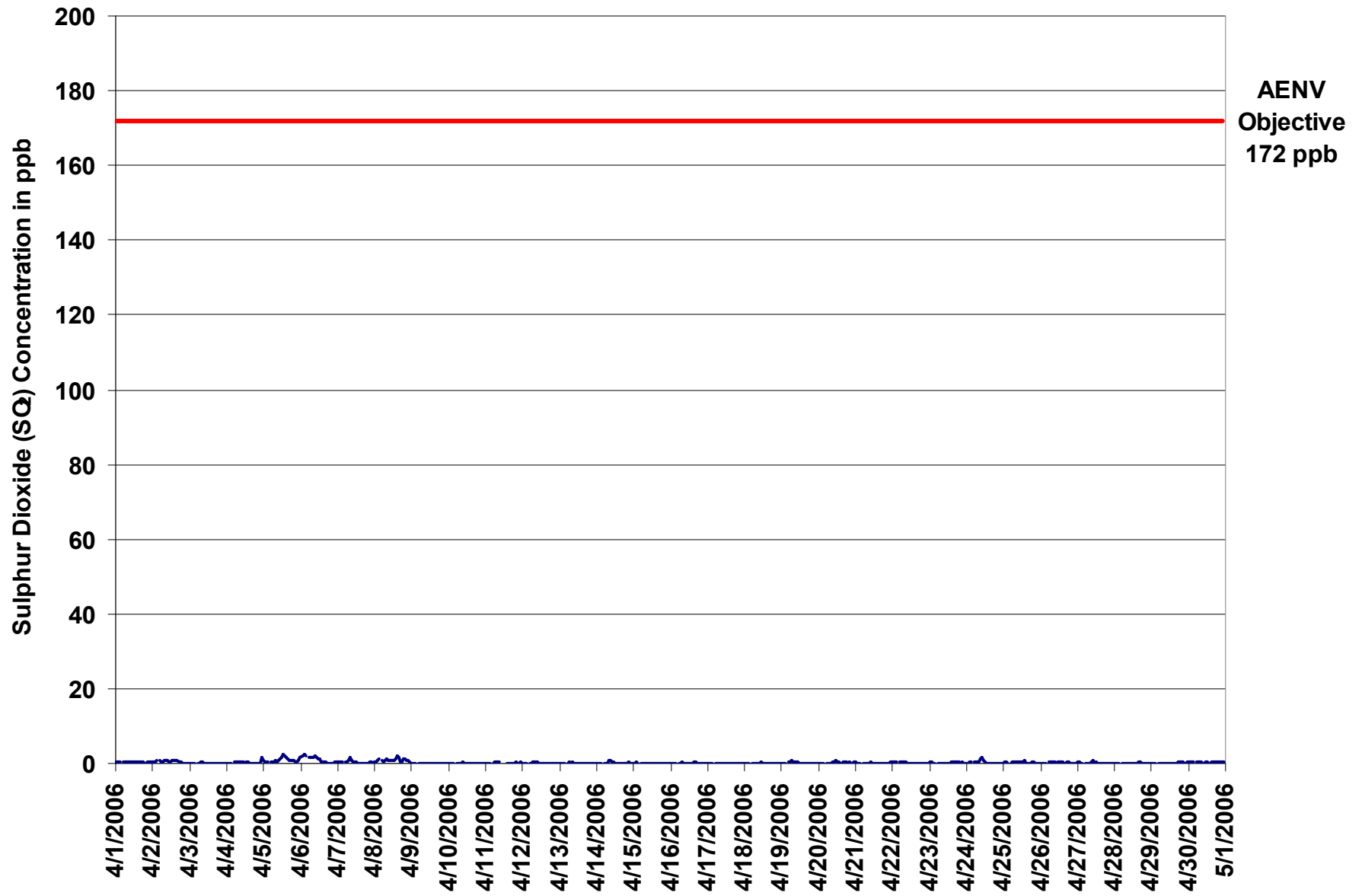


Figure 34. PASZA - Beaverlodge Sulphur Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge  
 Station Owner: PASZA

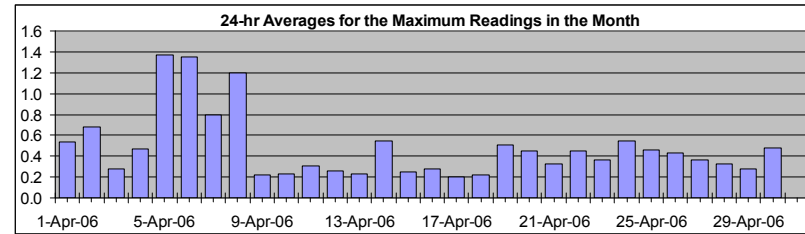
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Sulphur Dioxide (SO<sub>2</sub>)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Value:	5.0	ppb	7-Apr	8:00 9:00
Maximum 24-hr Value:	1.4	ppb	5-Apr	



AIC Time:	31 hrs	Operational Time:	686 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.5	1.5	0.5	0.3	0.2	0.2	0.1	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-Apr-06	1	0	0	0	A	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.5	0.9
2-Apr-06	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	0.7	1.1
3-Apr-06	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	0.3	0.6
4-Apr-06	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0.5	3.0	
5-Apr-06	2	1	1	0	A	1	1	1	2	1	1	2	2	3	2	2	2	1	1	1	2	1	1	1	1	1.4	3.1
6-Apr-06	2	3	3	3	A	2	2	2	3	2	2	2	1	1	1	1	0	0	0	0	0	0	1	1	1.4	2.6	
7-Apr-06	0	1	0	0	A	1	1	1	5	3	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0.8	5.0	
8-Apr-06	0	1	1	1	A	1	1	1	2	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1.2	2.4	
9-Apr-06	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	
10-Apr-06	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	0.4	
11-Apr-06	0	0	0	0	A	0	0	0	0	1	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0.3	0.7	
12-Apr-06	0	0	0	0	A	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6	
13-Apr-06	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	0.4	
14-Apr-06	0	0	0	0	A	0	0	0	2	2	2	2	0	0	0	0	0	1	1	0	0	0	0	0	0.6	2.4	
15-Apr-06	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	0.4	
16-Apr-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.3	0.6	
17-Apr-06	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	
18-Apr-06	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	0.4	
19-Apr-06	0	0	0	0	A	1	1	1	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	4.1	
20-Apr-06	0	0	0	0	A	0	0	0	0	1	1	1	1	0	0	0	1	1	1	0	1	0	0	1	0.5	0.8	
21-Apr-06	1	0	0	0	A	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	1	0.3	0.8	
22-Apr-06	1	1	1	1	A	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.1	
23-Apr-06	1	1	0	0	A	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.4	1.0	
24-Apr-06	0	0	0	0	A	1	0	0	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	2.2	
25-Apr-06	0	1	1	0	A	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.5	1.0	
26-Apr-06	0	0	0	0	A	0	0	1	1	0	0	1	1	0	1	1	0	1	1	0	0	0	0	0	0.4	0.8	
27-Apr-06	0	1	0	0	A	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.3	
28-Apr-06	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	1	1	0	1	1	0	0	0	0.3	0.8	
29-Apr-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.3	0.7	
30-Apr-06	1	1	1	1	A	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0.5	0.7	
Hourly Avg	0.5	0.4	0.4	0.5	N	0.5	0.5	0.5	0.8	0.7	0.8	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4			
Hourly Max	2.0	2.6	2.5	2.6	0.0	2.1	2.1	2.0	5.0	3.4	4.1	2.2	2.3	3.1	2.4	2.4	2.1	1.3	0.9	1.5	1.7	1.4	1.0	3.0			

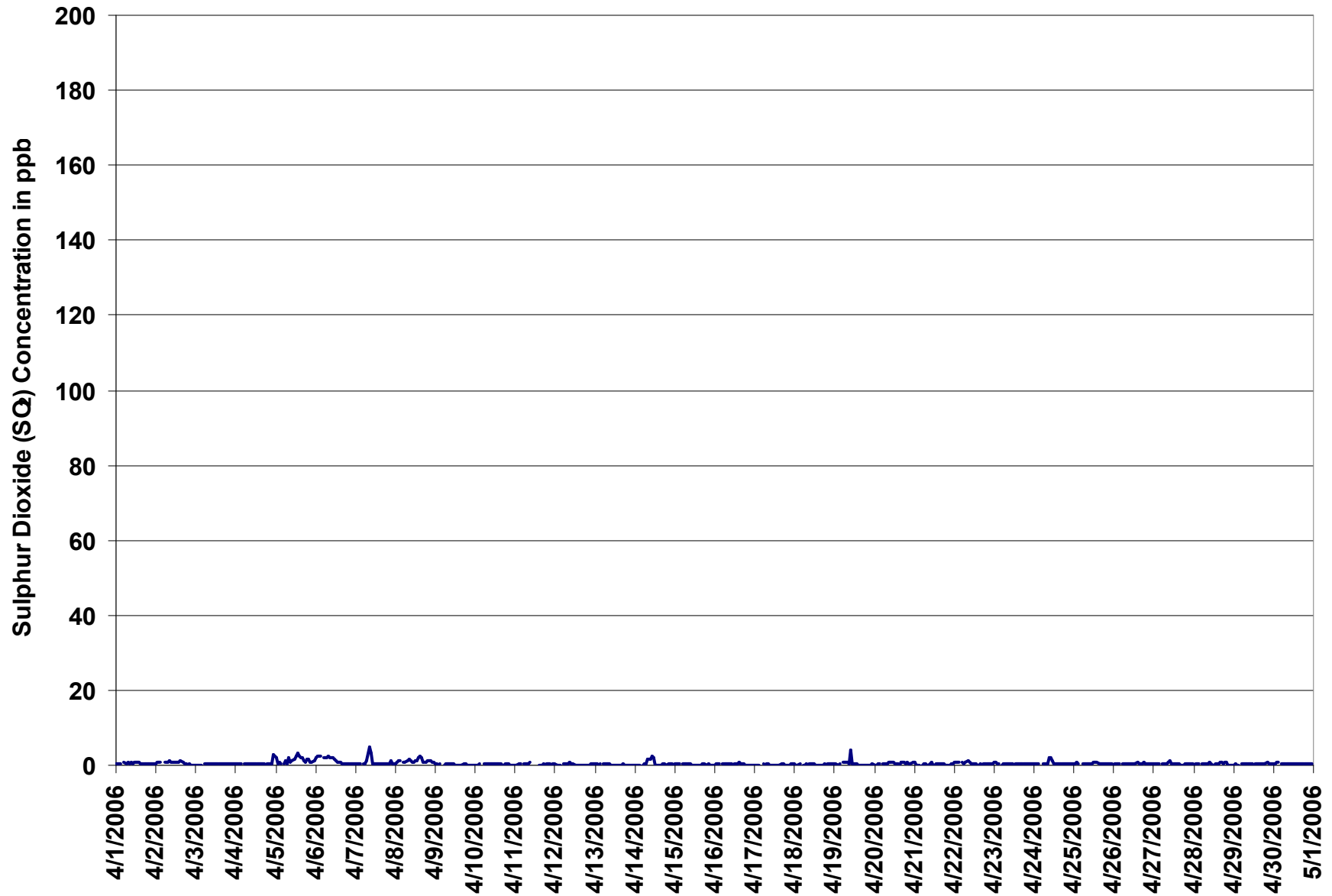
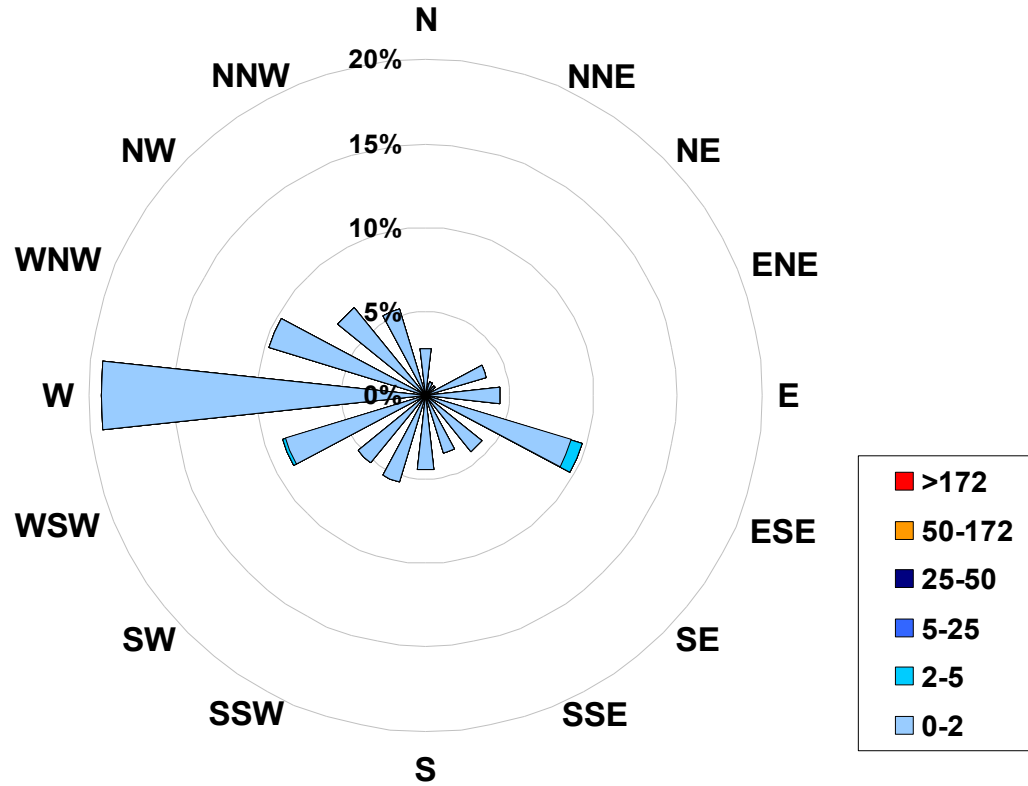


Figure 35. PASZA - Beaverlodge Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Beaverlodge Site for April 2006**



**Calms: 0%**

Frequency Distribution of SO <sub>2</sub> in ppb			Frequency (hrs)
Range			
0.0	< 2		680
2	to 5		6
5	to 25		0
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			686

# PASZA - Beaverlodge - Nitrogen Dioxide Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

## Nitrogen Dioxide (NO<sub>2</sub>)

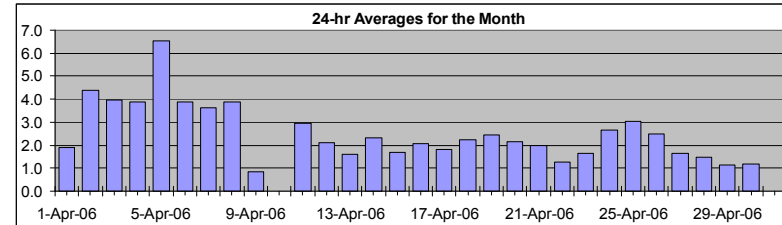
Monitoring Dates: April 1, 2006 to May 1, 2006

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:	16.2	ppb	5-Apr	8:00	9:00
Maximum 24-hr Average:	6.5	ppb	5-Apr		

AIC Time:	31 hrs		Operational Time:	684 hrs					
Calibration Time:	5 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	10.9	7.0	3.3	1.7	1.0	0.6	0.2	2.5 ppb	1.7 ppb



### Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Apr-06	1	1	2	2	A	2	1	3	7	8	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.9	8.1
2-Apr-06	1	1	2	2	A	7	9	8	7	7	7	6	5	4	3	3	6	3	4	1	4	5	4	4	4	4.4	8.6
3-Apr-06	6	7	6	6	A	6	7	7	7	5	4	2	1	1	1	1	1	1	3	4	6	4	3	4	4	4.0	7.0
4-Apr-06	5	6	5	5	A	4	5	8	5	5	10	5	2	1	1	1	1	1	3	2	2	5	6	6	6	3.9	9.7
5-Apr-06	7	9	7	6	A	11	14	11	16	11	5	5	5	12	6	3	2	2	2	3	4	3	3	2	2	6.5	16.2
6-Apr-06	4	4	4	3	A	4	4	5	14	9	6	4	4	2	1	1	1	1	1	2	7	4	2	3	3	3.9	13.7
7-Apr-06	2	2	2	5	A	5	5	15	14	10	4	2	1	1	1	1	1	1	2	2	2	1	1	1	1	3.6	15.3
8-Apr-06	2	2	3	4	A	4	9	8	10	8	6	5	4	2	1	2	1	1	2	4	2	4	3	4	4	3.9	9.9
9-Apr-06	3	2	1	1	A	1	2	2	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0.8	2.7
10-Apr-06	0	0	1	1	A	3	3	7	4	C	C	C	C	C	A	1	1	1	1	2	3	5	3	4	4	N	7.1
11-Apr-06	3	2	5	4	A	5	8	8	6	4	2	1	1	1	1	1	1	1	1	3	3	3	2	1	1	2.9	8.0
12-Apr-06	2	2	2	3	A	8	4	5	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2.1	8.2
13-Apr-06	1	1	1	1	A	2	4	3	1	1	1	1	1	1	1	1	1	1	1	2	3	3	3	2	2	1.6	3.7
14-Apr-06	4	2	3	2	A	3	5	5	5	5	4	1	1	1	1	1	1	1	1	1	1	2	2	1	1	2.3	5.4
15-Apr-06	2	3	3	4	A	2	3	3	1	1	1	1	0	0	1	1	1	1	2	2	1	2	2	2	2	1.7	3.8
16-Apr-06	2	2	3	4	A	3	4	6	4	4	1	1	1	1	1	2	1	1	1	2	1	1	1	1	1	2.1	6.2
17-Apr-06	1	1	1	2	A	4	5	5	4	2	1	0	0	0	0	0	1	1	1	1	1	2	3	3	2	1.8	5.3
18-Apr-06	1	2	3	5	A	4	5	5	3	2	1	1	1	1	1	1	1	1	2	2	2	3	3	2	2	2.2	5.4
19-Apr-06	3	3	3	5	A	5	6	7	5	3	2	1	1	1	1	1	1	1	1	1	1	2	2	1	1	2.5	7.1
20-Apr-06	1	2	2	2	A	2	7	5	2	2	1	1	2	1	2	2	2	1	2	2	2	3	2	1	1	2.1	7.2
21-Apr-06	2	1	1	2	A	2	4	4	3	2	3	2	2	2	2	1	2	2	1	1	1	1	2	2	2	2.0	4.3
22-Apr-06	2	2	2	1	A	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1.3	2.4
23-Apr-06	2	2	2	2	A	2	2	3	3	2	1	1	1	1	1	1	1	1	1	2	2	2	1	2	2	1.6	2.7
24-Apr-06	3	3	4	7	A	5	6	5	4	3	2	1	1	1	1	1	1	1	1	2	2	2	3	1	1	2.6	6.8
25-Apr-06	2	4	7	8	A	5	7	7	6	4	2	1	1	1	1	1	1	1	1	2	3	2	2	2	2	3.0	8.3
26-Apr-06	3	3	4	4	A	8	6	6	4	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2.5	7.8
27-Apr-06	2	2	2	3	A	5	3	1	1	1	1	1	1	1	1	1	1	1	1	2	4	3	2	1	1	1.6	4.8
28-Apr-06	1	1	2	2	A	5	3	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.5	5.5
29-Apr-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	2	1	2	1	1	1.1	2.8
30-Apr-06	2	1	1	1	A	2	2	2	1	0	0	0	0	0	0	0	0	1	1	1	3	4	2	2	2	1.2	4.0
Hourly Avg	2.3	2.5	2.8	3.3	N	4.1	4.8	5.3	4.9	3.7	2.6	1.7	1.4	1.5	1.1	1.1	1.2	1.1	1.5	1.8	2.5	2.4	2.0	2.0			
Hourly Max	6.5	9.4	6.7	8.3	0.0	11.0	13.6	15.3	16.2	10.6	9.7	5.8	5.2	12.1	5.7	3.3	5.7	3.2	3.6	3.7	7.2	5.1	4.9	5.9			

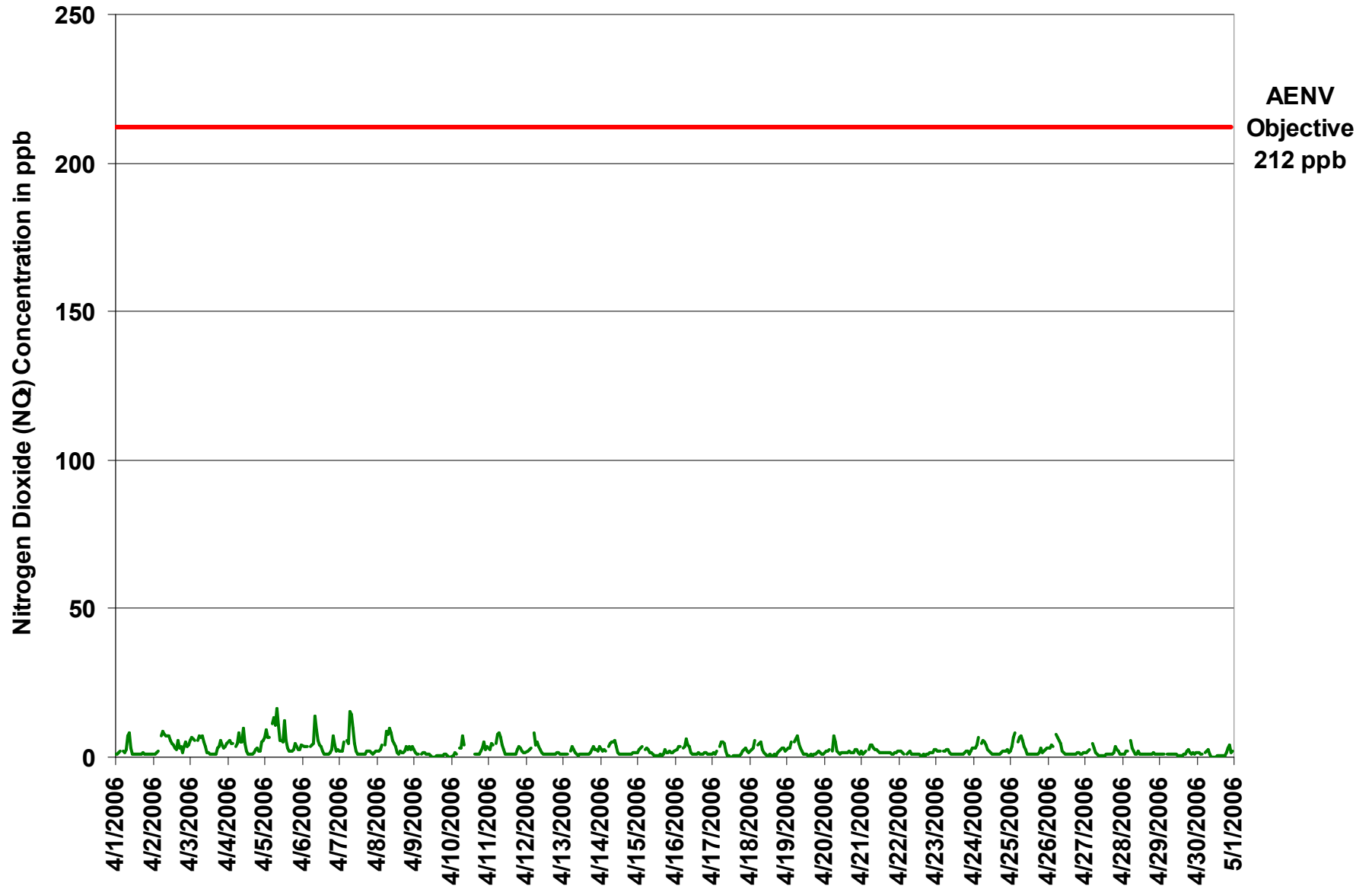


Figure 36. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

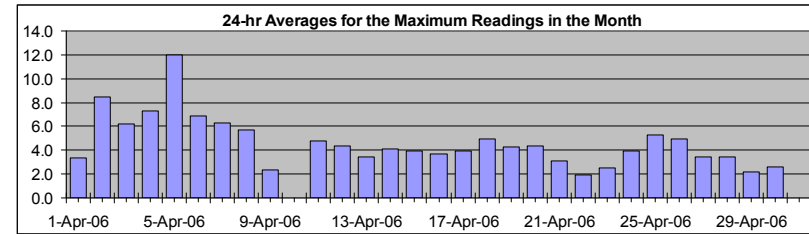
**Nitrogen Dioxide (NO<sub>2</sub>)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Value:	36.7	ppb	5-Apr	8:00 9:00
Maximum 24-hr Value:	12.0	ppb	5-Apr	

AIC Time:	31 hrs	Operational Time:	684 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	23.0	13.5	5.9	3.0	2.0	1.0	1.0	4.6 ppb	3.0 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-Apr-06	3	3	2	2	A	2	3	5	12	15	5	2	1	1	1	2	2	2	3	3	3	2	2	2	3.4	15.2
2-Apr-06	1	1	7	3	A	18	34	12	9	8	9	7	6	5	4	6	9	5	9	4	10	18	5	5	8.5	34.3
3-Apr-06	7	8	7	6	A	8	10	11	16	8	5	3	3	2	2	1	3	3	6	6	9	6	6	6	6.2	16.2
4-Apr-06	8	14	5	6	A	8	8	14	8	7	14	6	4	2	2	1	1	2	7	6	3	4	26	11	7.3	25.8
5-Apr-06	16	20	12	18	A	28	22	13	37	15	9	7	7	20	9	4	3	3	4	5	7	6	7	3	12.0	36.7
6-Apr-06	5	4	5	5	A	4	4	8	31	18	8	5	4	3	2	2	3	2	3	5	17	8	5	5	6.9	31.2
7-Apr-06	4	3	4	9	A	7	8	33	24	19	6	4	2	1	1	1	1	2	2	4	4	2	2	2	6.3	33.2
8-Apr-06	3	3	3	7	A	5	13	10	14	11	8	5	5	3	2	2	2	3	3	6	4	7	7	4	5.7	14.2
9-Apr-06	4	3	1	2	A	3	4	4	2	9	1	1	1	1	2	1	1	1	2	2	3	2	2	1	2.4	9.4
10-Apr-06	2	1	3	2	A	7	6	15	6	C	C	C	C	C	A	2	3	2	4	4	4	10	5	5	N	15.2
11-Apr-06	4	4	7	5	A	9	12	14	10	5	4	2	1	3	1	1	1	1	3	4	7	5	5	3	4.8	13.5
12-Apr-06	3	3	6	6	A	17	6	12	6	4	3	1	2	3	2	2	2	2	3	3	5	4	3	2	4.4	16.7
13-Apr-06	2	2	2	2	A	7	7	4	4	2	2	2	2	2	2	2	2	3	4	5	7	8	7	2	3.5	8.2
14-Apr-06	7	4	4	4	A	5	7	8	8	8	7	5	2	2	3	2	2	2	2	2	2	4	4	2	4.1	8.2
15-Apr-06	3	5	6	8	A	4	5	4	3	2	2	1	1	6	2	2	1	3	8	3	6	9	3	3	3.9	9.3
16-Apr-06	3	4	6	9	A	5	8	9	7	6	3	1	1	1	2	2	1	1	2	4	3	2	2	2	3.7	9.4
17-Apr-06	2	3	2	4	A	6	10	8	7	5	1	1	1	1	2	1	1	2	1	3	11	8	6	3	3.9	10.6
18-Apr-06	2	3	6	6	A	5	7	8	6	2	14	1	1	15	1	1	1	1	8	5	6	7	5	4	5.0	15.1
19-Apr-06	4	4	5	7	A	8	11	10	7	6	4	2	1	1	2	2	2	2	2	4	4	5	6	2	4.3	10.9
20-Apr-06	3	3	4	5	A	4	18	17	4	2	2	2	6	3	3	2	2	2	3	3	4	4	3	2	4.4	17.9
21-Apr-06	3	2	2	4	A	3	8	6	5	3	4	2	2	3	3	3	4	3	2	3	2	2	2	2	3.1	7.9
22-Apr-06	2	2	2	2	A	2	3	3	2	3	1	1	1	1	1	1	1	1	2	3	3	2	4	3	2.0	3.9
23-Apr-06	3	3	4	2	A	3	3	4	4	2	4	1	1	1	2	1	1	2	2	3	4	4	2	2	2.5	4.4
24-Apr-06	8	7	7	9	A	5	8	8	7	4	3	2	1	1	1	1	2	2	2	3	2	3	3	2	3.9	8.8
25-Apr-06	2	5	19	17	A	6	11	11	7	5	3	2	1	1	2	3	2	1	3	5	6	4	2	4	5.2	18.6
26-Apr-06	4	5	5	5	A	23	10	12	6	7	2	2	2	2	2	2	2	4	3	3	4	3	3	3	4.9	22.8
27-Apr-06	4	3	4	5	A	10	6	3	2	1	1	2	1	1	1	1	2	4	2	4	9	7	4	2	3.5	9.9
28-Apr-06	2	2	3	3	A	10	4	4	2	3	20	2	2	1	2	2	2	2	2	2	4	2	2	2	3.5	20.3
29-Apr-06	1	1	1	1	A	2	3	2	3	1	1	1	2	1	2	1	3	4	5	5	4	3	3	2	2.2	4.9
30-Apr-06	4	4	2	1	A	3	4	8	2	1	1	1	1	1	1	1	1	1	1	4	5	8	3	3	2.6	7.7
Hourly Avg	3.9	4.3	4.8	5.5	N	7.5	8.7	9.3	8.7	6.3	5.1	2.6	2.2	3.1	2.1	1.9	2.1	2.3	3.4	3.8	5.3	5.3	4.6	3.1		
Hourly Max	15.7	20.5	18.6	18.3	0.0	27.8	34.3	33.2	36.7	19.4	20.3	7.1	7.1	20.3	9.2	6.1	9.1	5.1	8.6	6.1	17.3	18.1	25.8	10.6		

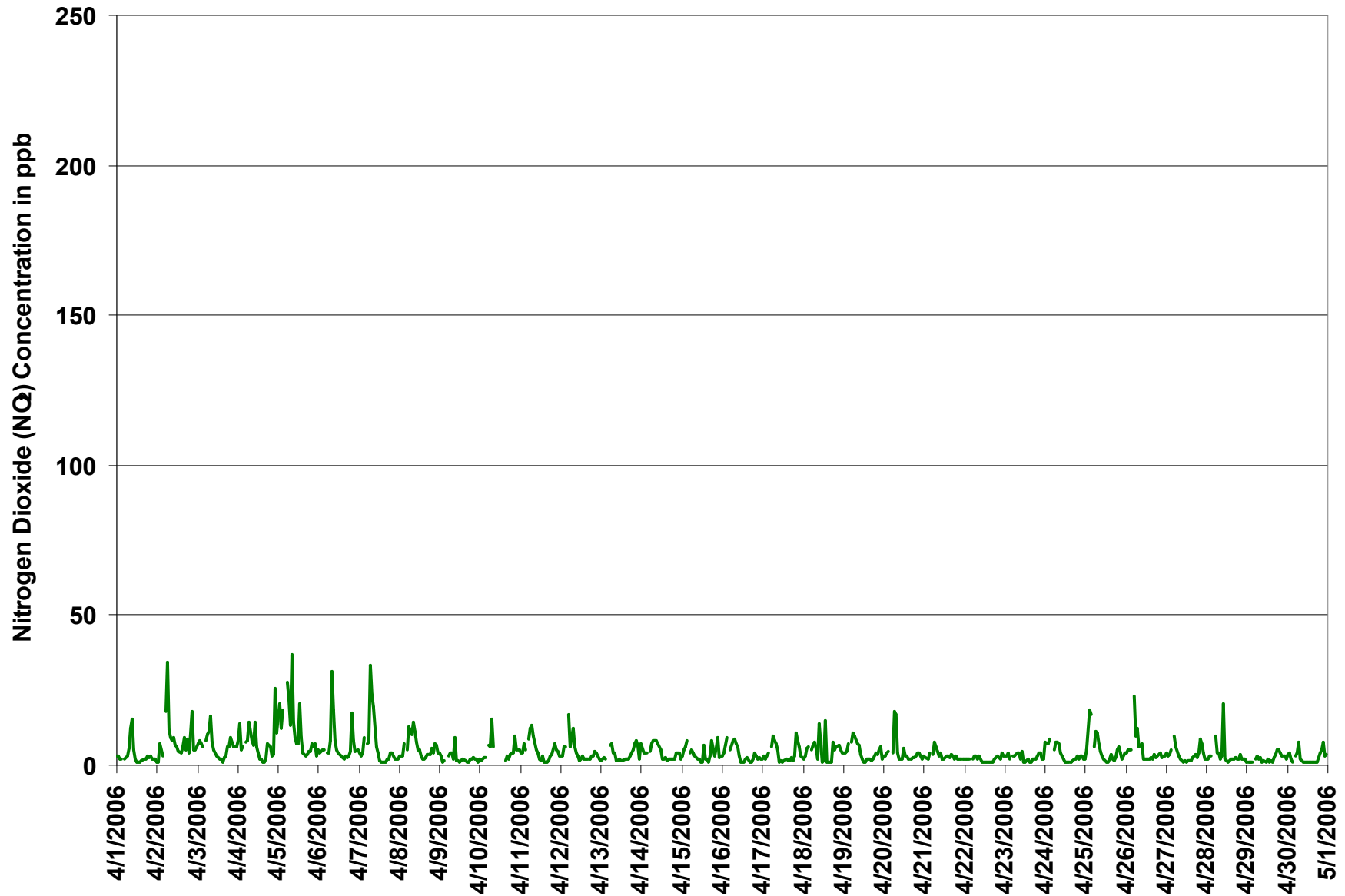
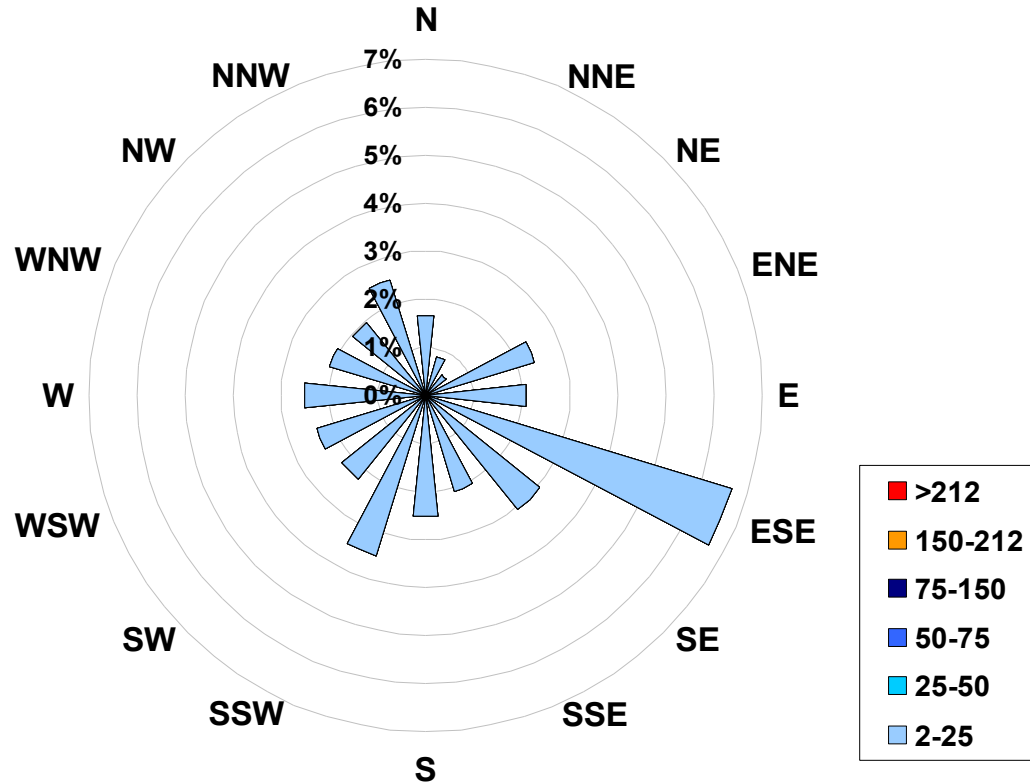


Figure 37. PASZA - Beaverlodge Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Beaverlodge Site for April 2006



Calms: 0%

Frequency Distribution of NO <sub>2</sub> in ppb			Frequency (hrs)
Range			
2.0	<	25	684
25	to	50	0
50	to	75	0
75	to	150	0
150	to	212	0
	>	212	0
Total Non-Zero Values			684

# PASZA - Beaverlodge - Nitric Oxide Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

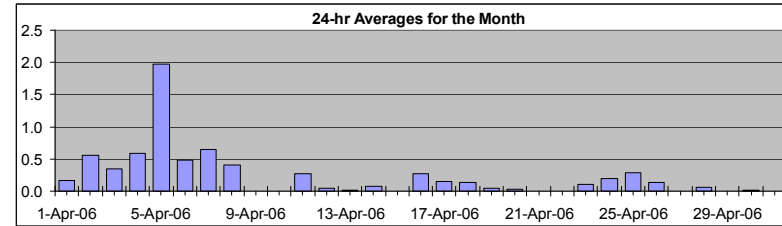
## Nitric Oxide (NO)

Monitoring Dates: April 1, 2006 to May 1, 2006

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

Maximum 1-hr Average:	18.9	ppb	5-Apr	8:00 9:00
Maximum 24-hr Average:	2.0	ppb	5-Apr	

AIC Time:	31 hrs	Operational Time:	684 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.9	1.6	0.0	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	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
1-Apr-06	0	0	0	0	A	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.8
2-Apr-06	0	0	0	0	A	0	0	1	1	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0.6	3.4
3-Apr-06	0	0	0	0	A	0	0	2	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.8
4-Apr-06	0	0	0	0	A	0	0	2	2	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	5.5
5-Apr-06	0	0	0	0	A	0	4	4	19	7	2	2	1	4	2	0	0	0	0	0	0	0	0	0	0	2.0	18.9
6-Apr-06	0	0	0	0	A	0	0	0	4	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	4.2
7-Apr-06	0	0	0	0	A	0	0	5	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	5.4
8-Apr-06	0	0	0	0	A	0	0	1	2	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	3.1
9-Apr-06	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
10-Apr-06	0	0	0	0	A	0	0	1	1	C	C	C	C	C	A	0	0	0	0	0	0	0	0	0	0	N	1.1
11-Apr-06	0	0	0	0	A	0	0	2	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.9
12-Apr-06	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	0.3
13-Apr-06	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	0.4
14-Apr-06	0	0	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
15-Apr-06	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-Apr-06	0	0	0	0	A	0	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.1
17-Apr-06	0	0	0	0	A	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.6
18-Apr-06	0	0	0	0	A	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.4
19-Apr-06	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.7
20-Apr-06	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	0.3
21-Apr-06	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
22-Apr-06	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
23-Apr-06	0	0	0	0	A	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
24-Apr-06	0	0	0	0	A	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.3
25-Apr-06	0	0	0	0	A	0	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.4
26-Apr-06	0	0	0	0	A	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.4
27-Apr-06	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
28-Apr-06	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	0.1	0.9
29-Apr-06	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
30-Apr-06	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	0.4
Hourly Avg	0.0	0.0	0.0	0.0	N	0.0	0.2	1.0	1.7	1.1	0.8	0.3	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hourly Max	0.0	0.0	0.0	0.0	0.0	0.3	4.0	5.4	18.9	7.4	5.5	2.1	1.5	3.7	1.6	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.2	0.0	0.0	

Station: Beaverlodge  
 Station Owner: PASZA

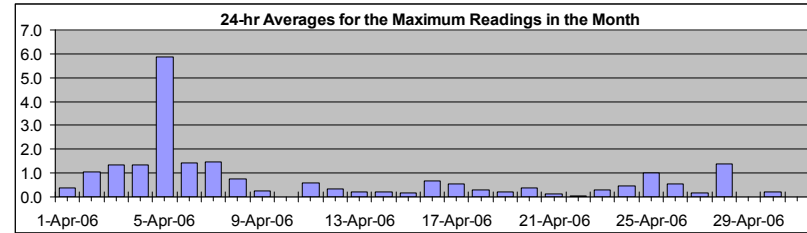
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Nitric Oxide (NO)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Value:	56.9	ppb	5-Apr	8:00 9:00
Maximum 24-hr Value:	5.9	ppb	5-Apr	



AIC Time:	31 hrs	Operational Time:	684 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	10.0	3.6	0.1	0.0	0.0	0.0	0.0	0.7 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	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00	0:00	
1-Apr-06	0	0	0	0	0	A	0	0	0	0	3	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	4.9
2-Apr-06	0	0	0	0	0	A	0	4	1	2	4	5	3	2	1	1	1	0	0	0	0	0	0	0	1	0	0	1.1	4.9	
3-Apr-06	0	0	0	0	0	A	0	0	7	15	3	3	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1.3	15.1	
4-Apr-06	0	0	0	0	0	A	0	0	5	3	3	9	3	1	0	0	0	0	0	0	1	0	0	0	0	5	0	1.3	8.9	
5-Apr-06	0	0	0	0	0	A	9	26	10	57	10	5	4	2	8	3	1	0	0	0	0	0	0	0	0	0	0	5.9	56.9	
6-Apr-06	0	0	0	0	0	A	0	0	1	19	7	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	18.6	
7-Apr-06	0	0	0	0	0	A	0	0	16	8	7	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	15.9	
8-Apr-06	0	0	0	0	0	A	0	1	1	4	5	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.8	4.9	
9-Apr-06	0	0	0	0	0	A	0	0	0	0	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.2	4.6	
10-Apr-06	0	0	0	0	0	A	0	0	4	1	C	C	C	C	C	C	A	0	0	0	0	0	0	0	0	0	0	N	3.9	
11-Apr-06	0	0	0	0	0	A	0	2	3	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	4.9	
12-Apr-06	0	0	0	0	0	A	0	0	2	1	1	1	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0.3	1.5	
13-Apr-06	0	0	0	0	0	A	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0	
14-Apr-06	0	0	0	0	0	A	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0	
15-Apr-06	0	0	0	0	0	A	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0.2	1.0	
16-Apr-06	0	0	0	0	0	A	0	1	6	4	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	6.0	
17-Apr-06	0	0	0	0	0	A	0	1	3	3	2	1	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0.6	3.0	
18-Apr-06	0	0	0	0	0	A	0	1	2	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.3	2.0	
19-Apr-06	0	0	0	0	0	A	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0	
20-Apr-06	0	0	0	0	0	A	0	3	3	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.4	3.0	
21-Apr-06	0	0	0	0	0	A	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0.1	0.9	
22-Apr-06	0	0	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	0.9	
23-Apr-06	0	0	0	0	0	A	0	0	1	1	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	3.0	
24-Apr-06	0	0	0	0	0	A	0	1	3	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	2.9	
25-Apr-06	0	0	0	0	0	A	0	3	6	3	2	1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	7.7	
26-Apr-06	0	0	0	0	0	A	1	3	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	4.0	
27-Apr-06	0	0	0	0	0	A	0	1	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.2	2.1	
28-Apr-06	0	0	0	0	0	A	0	1	1	0	8	20	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1.4	20.4	
29-Apr-06	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
30-Apr-06	0	0	0	0	0	A	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.9	
Hourly Avg	0.0	0.0	0.0	0.0	N	0.3	1.7	2.8	4.7	2.7	2.1	0.9	0.3	0.5	0.2	0.1	0.1	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.2	0.0				
Hourly Max	0.1	0.0	0.0	0.0	0.0	8.6	25.5	15.9	56.9	10.3	20.4	7.7	2.0	8.0	3.0	1.0	0.9	0.9	1.0	0.1	0.5	0.8	5.5	0.0						

# PASZA - Beaverlodge - Oxides of Nitrogen Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

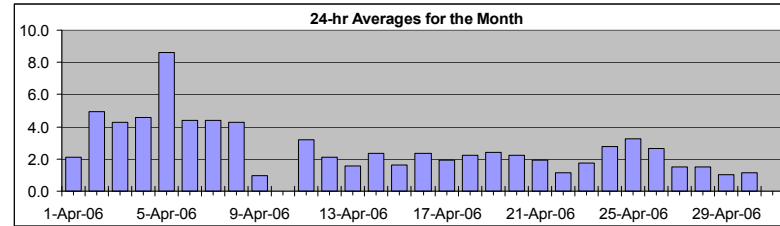
## Oxides of Nitrogen (NO<sub>x</sub>)

Monitoring Dates: April 1, 2006 to May 1, 2006

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

Maximum 1-hr Average:	35.1	ppb	5-Apr	8:00 9:00
Maximum 24-hr Average:	8.6	ppb	5-Apr	

AIC Time:	31 hrs	Operational Time:	684 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	15.4	8.1	3.3	1.7	1.0	0.4	0.1	2.7 ppb	1.7 ppb



### Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-06	1	1	2	2	A	2	2	3	8	10	4	1	1	1	1	1	1	1	1	1	1	1	1	1	2.1	9.9
2-Apr-06	1	1	2	2	A	7	9	8	8	10	11	8	6	5	4	3	6	3	4	1	3	5	4	4	4.9	10.7
3-Apr-06	6	6	6	5	A	6	7	8	10	7	5	2	2	1	1	1	1	3	4	6	4	3	4	4.3	9.7	
4-Apr-06	4	6	4	5	A	4	5	10	7	7	15	7	3	2	1	1	2	3	3	2	3	5	6	4.6	15.3	
5-Apr-06	7	9	7	7	A	11	18	15	35	18	8	8	7	16	7	4	2	2	2	3	4	3	3	2	8.6	35.1
6-Apr-06	4	3	3	3	A	3	4	5	18	12	8	6	4	2	1	1	1	1	2	2	7	4	2	3	4.4	18.0
7-Apr-06	2	2	2	5	A	6	5	21	19	13	6	3	1	1	1	1	1	2	2	2	1	1	1	4.4	20.9	
8-Apr-06	2	2	2	4	A	4	9	9	12	12	8	6	4	2	1	2	2	1	2	4	2	4	3	4	4.3	11.7
9-Apr-06	3	2	1	1	A	1	2	2	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0	1.0	2.8	
10-Apr-06	1	1	2	2	A	3	3	9	5	C	C	C	C	C	A	1	1	1	1	2	3	5	2	4	N	8.7
11-Apr-06	3	2	4	4	A	5	8	10	9	5	3	1	1	1	1	1	1	1	1	2	3	3	2	1	3.2	9.7
12-Apr-06	2	2	2	3	A	8	4	5	4	3	2	1	1	1	1	1	1	1	1	1	1	1	0	2.1	8.2	
13-Apr-06	0	1	1	1	A	2	4	3	2	1	1	1	1	1	1	1	1	1	1	2	3	3	2	1.5	3.9	
14-Apr-06	3	2	3	2	A	3	4	6	6	6	4	1	1	1	1	1	1	1	1	1	1	2	2	1	2.3	6.3
15-Apr-06	2	2	3	4	A	2	3	3	2	2	1	0	0	0	0	1	0	1	2	2	1	2	1	2	1.6	3.7
16-Apr-06	2	2	3	4	A	3	4	8	6	6	2	1	1	1	1	2	1	1	1	1	1	1	1	1	2.4	8.4
17-Apr-06	1	1	1	2	A	4	6	7	6	2	1	0	0	0	0	0	0	1	0	1	2	2	3	2	1.9	6.7
18-Apr-06	1	2	3	5	A	4	5	7	3	2	1	0	1	1	1	0	1	1	2	2	2	3	3	2	2.2	6.6
19-Apr-06	3	3	3	5	A	5	6	8	5	4	2	1	1	1	0	0	1	1	1	1	1	2	2	1	2.4	7.7
20-Apr-06	1	2	2	2	A	2	8	6	2	2	1	2	2	2	2	2	2	1	2	2	2	2	1	1	2.2	7.6
21-Apr-06	2	1	1	2	A	2	4	4	3	3	3	2	2	2	2	1	2	2	1	1	1	1	1	1	2.0	4.4
22-Apr-06	2	2	2	1	A	1	2	2	1	1	1	1	1	0	0	1	0	1	1	1	2	1	2	1	1.2	2.3
23-Apr-06	2	2	2	2	A	2	2	3	4	2	1	1	1	1	1	1	1	1	1	2	2	2	1	2	1.7	3.5
24-Apr-06	3	3	4	7	A	5	6	6	6	3	3	1	1	1	1	1	1	1	1	2	1	2	2	1	2.7	6.8
25-Apr-06	2	3	7	8	A	5	7	9	8	5	3	1	1	1	1	1	1	1	1	2	3	2	2	2	3.3	9.3
26-Apr-06	3	3	4	3	A	8	7	7	6	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2.6	7.9
27-Apr-06	2	2	2	3	A	5	3	1	1	1	0	0	0	0	1	1	1	1	1	2	4	3	2	1	1.5	4.8
28-Apr-06	1	1	2	2	A	5	3	2	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1.5	5.4
29-Apr-06	1	1	1	0	A	1	1	1	1	1	1	1	1	0	0	0	1	1	2	3	2	1	2	1	1.0	2.8
30-Apr-06	1	1	1	1	A	1	2	3	1	0	0	0	0	0	0	0	0	0	0	1	3	4	2	2	1.1	3.9
Hourly Avg	2.2	2.4	2.7	3.2	N	4.0	5.1	6.4	6.7	4.9	3.5	2.1	1.6	1.6	1.2	1.1	1.2	1.1	1.5	1.8	2.4	2.3	1.9	1.9		
Hourly Max	6.6	9.5	6.6	8.2	0.0	11.5	17.8	20.9	35.1	18.2	15.3	7.9	6.9	15.9	7.4	3.8	5.7	3.2	3.5	3.7	7.1	4.9	5.2	5.9		

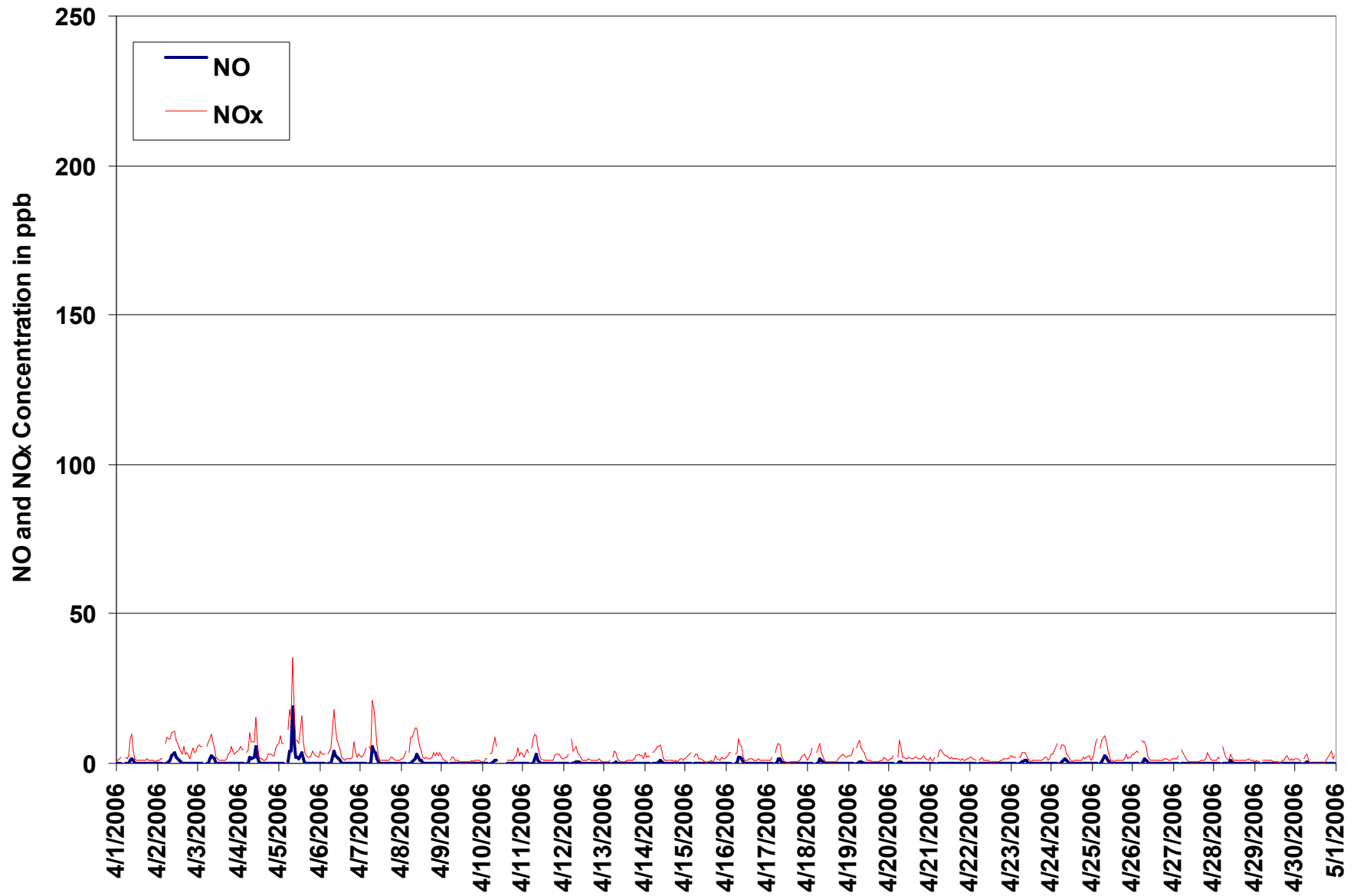


Figure 38. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Beaverlodge  
 Station Owner: PASZA

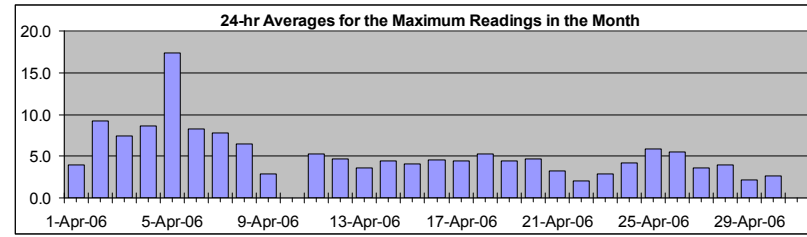
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Oxides of Nitrogen (NO<sub>x</sub>)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Value:	85.3	ppb	5-Apr	8:00 9:00
Maximum 24-hr Value:	17.3	ppb	5-Apr	



AIC Time:	31 hrs	Operational Time:	684 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	30.2	15.9	6.1	3.1	2.0	1.0	0.9	5.3 ppb	3.1 ppb

**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-06	3	3	2	2	A	2	3	6	16	20	6	2	1	1	1	2	2	2	3	3	3	2	2	2	3.9	20.0
2-Apr-06	1	1	7	3	A	18	37	12	10	12	14	9	8	6	4	6	9	5	9	4	10	18	5	5	9.3	37.1
3-Apr-06	7	8	6	6	A	8	10	18	29	11	7	4	3	2	2	1	3	3	7	6	9	6	6	6	7.4	28.9
4-Apr-06	8	13	5	6	A	8	8	19	11	10	24	9	5	2	2	1	1	2	8	6	3	4	30	11	8.6	30.0
5-Apr-06	15	21	12	18	A	36	42	23	85	24	14	11	9	28	12	5	3	4	5	5	7	6	7	3	17.3	85.3
6-Apr-06	4	4	5	5	A	4	4	10	49	24	10	7	5	4	3	2	3	3	3	4	17	8	4	5	8.2	48.8
7-Apr-06	4	3	3	9	A	7	8	49	32	25	8	5	2	1	1	1	1	2	2	4	4	2	1	2	7.8	48.6
8-Apr-06	3	3	3	6	A	5	13	12	18	14	11	7	6	4	2	2	3	4	3	6	4	7	7	4	6.5	17.7
9-Apr-06	4	2	1	1	A	3	4	4	2	14	2	2	2	2	2	2	2	2	2	2	3	2	2	1	2.9	14.2
10-Apr-06	2	1	2	2	A	6	7	17	7	C	C	C	C	C	A	2	3	2	4	4	4	9	5	5	N	17.4
11-Apr-06	4	4	7	5	A	9	14	16	15	7	5	2	1	3	1	1	1	1	3	3	7	5	4	3	5.3	16.0
12-Apr-06	3	3	6	6	A	17	6	14	8	4	3	2	2	3	2	2	3	3	4	4	5	4	4	2	4.6	16.7
13-Apr-06	2	2	2	2	A	7	7	5	6	2	2	3	2	2	2	2	2	3	4	5	7	8	6	2	3.6	7.7
14-Apr-06	7	4	4	4	A	4	7	9	9	10	8	6	2	3	3	2	3	2	2	2	2	4	4	2	4.4	9.9
15-Apr-06	3	5	6	8	A	3	6	5	3	3	2	1	2	7	2	2	1	3	9	3	7	10	2	3	4.1	9.8
16-Apr-06	3	4	6	9	A	5	9	14	11	10	4	1	2	2	2	3	2	1	2	4	3	2	2	2	4.5	14.0
17-Apr-06	2	3	2	4	A	6	10	11	10	7	2	2	2	2	3	1	2	3	2	3	11	8	6	3	4.5	10.9
18-Apr-06	2	3	5	6	A	5	7	10	8	3	14	2	1	15	1	1	2	1	8	6	6	7	5	4	5.3	15.2
19-Apr-06	4	4	4	7	A	8	11	10	7	7	4	2	1	1	2	2	3	2	2	4	3	5	6	2	4.4	11.0
20-Apr-06	3	3	4	5	A	4	20	20	4	2	2	2	6	4	3	3	3	3	3	3	4	3	3	2	4.7	20.3
21-Apr-06	3	2	2	4	A	3	8	6	5	3	4	3	2	3	3	3	4	3	2	3	2	2	2	2	3.2	7.9
22-Apr-06	2	2	2	2	A	2	3	3	2	4	2	1	1	1	1	1	1	2	2	3	3	2	4	3	2.0	3.7
23-Apr-06	3	3	4	2	A	3	3	5	5	3	7	1	1	2	3	1	1	2	2	3	4	4	2	2	2.8	7.4
24-Apr-06	8	7	7	8	A	5	9	10	10	5	4	3	1	1	1	1	1	2	2	2	2	3	3	2	4.2	10.2
25-Apr-06	2	5	19	17	A	6	13	16	10	6	4	3	1	1	2	4	2	2	3	5	6	4	2	4	5.9	18.6
26-Apr-06	4	5	5	5	A	24	13	16	8	9	2	2	2	2	3	3	2	4	3	3	4	3	3	3	5.5	23.9
27-Apr-06	4	3	4	5	A	10	6	3	2	2	2	2	1	2	2	1	3	4	3	4	9	7	4	2	3.6	9.9
28-Apr-06	2	2	3	3	A	10	5	5	3	4	28	2	2	1	2	2	2	3	2	2	4	2	2	2	4.0	27.8
29-Apr-06	1	1	1	1	A	2	3	2	3	2	2	1	2	1	2	1	3	4	5	5	4	3	3	2	2.2	5.0
30-Apr-06	3	3	2	1	A	3	4	11	2	1	1	1	1	1	1	1	1	1	1	4	5	7	3	4	2.7	10.7
Hourly Avg	3.9	4.2	4.7	5.4	N	7.8	10.0	12.0	12.9	8.6	6.8	3.4	2.6	3.7	2.4	2.0	2.4	2.6	3.6	3.8	5.4	5.2	4.7	3.2		
Hourly Max	15.5	20.6	18.6	18.3	0.0	36.4	42.1	48.6	85.3	25.4	27.8	11.4	8.9	28.3	12.2	6.1	9.0	5.1	9.3	6.3	17.2	18.0	30.0	10.8		

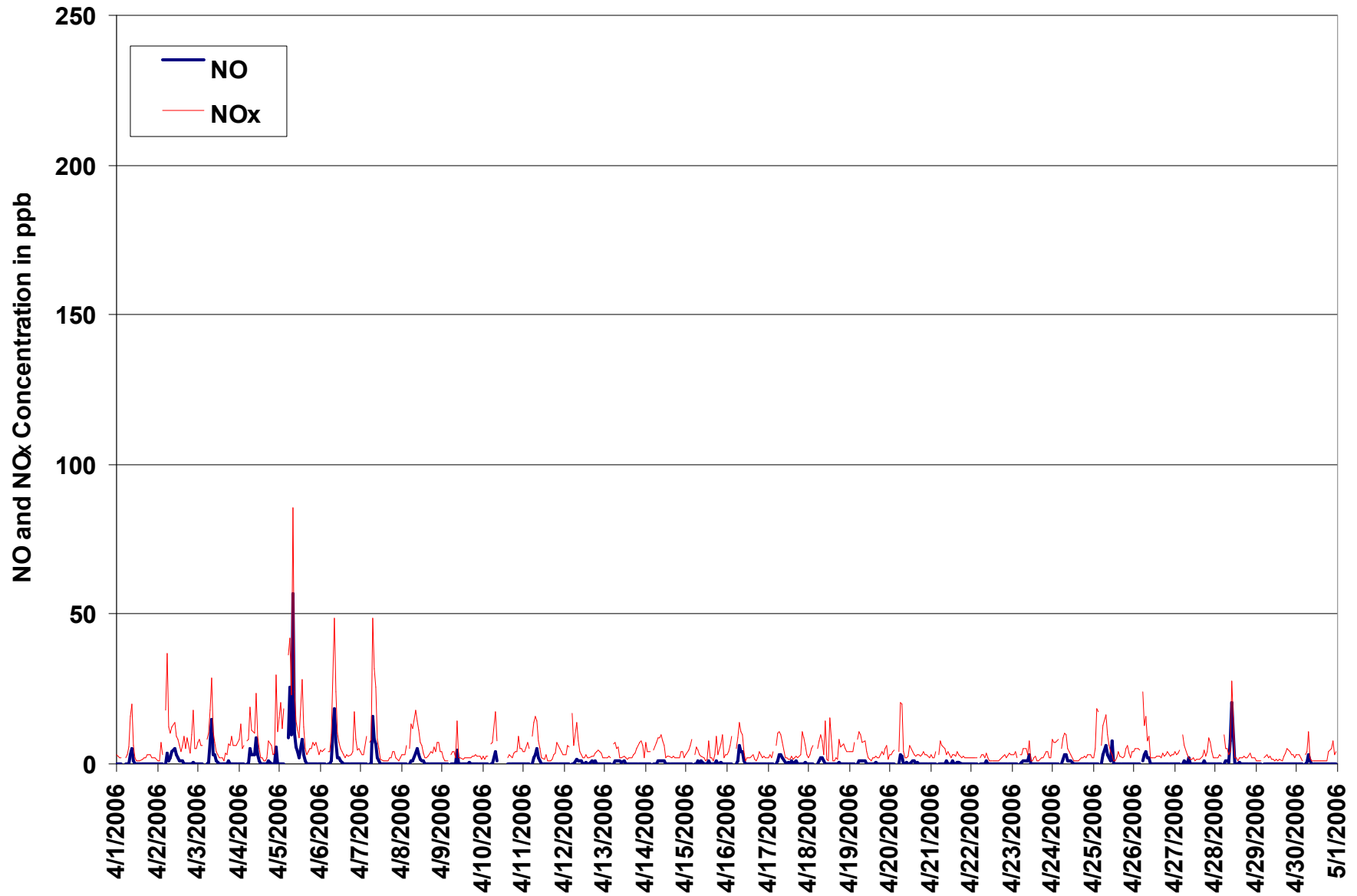


Figure 39. PASZA - Beaverlodge Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

# PASZA - Beaverlodge - Ozone Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

Ozone (O<sub>3</sub>)

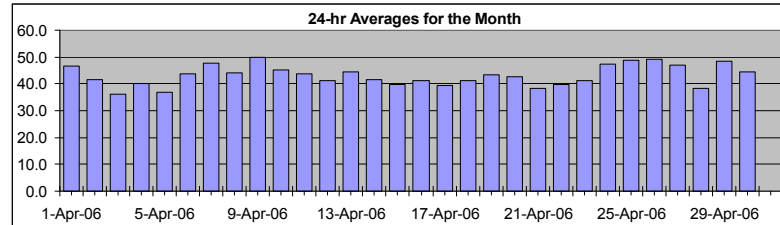
Monitoring Dates: April 1, 2006 to May 1, 2006

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

Summary

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	63.6 ppb	24-Apr	17:00 18:00
Maximum 24-hr Average:	50.1 ppb	9-Apr	

AIC Time:	31 hrs	Operational Time:	686 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	60.0	56.4	49.3	44.0	37.2	29.1	22.3	43.1 ppb	44.0 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-Apr-06	49	48	47	46	A	44	44	41	32	34	43	50	52	52	52	51	49	47	47	46	48	49	49	46.8	52.4	
2-Apr-06	48	49	46	46	A	37	32	29	34	33	34	39	43	47	50	49	48	49	44	48	46	37	36	35	41.7	49.6
3-Apr-06	28	22	22	24	A	25	23	23	22	25	30	39	44	49	50	50	51	50	43	41	40	41	41	42	36.0	50.8
4-Apr-06	39	33	31	31	A	30	30	22	30	32	31	39	47	50	51	52	53	52	49	45	46	46	41	39	39.9	52.8
5-Apr-06	39	31	29	32	A	21	6	14	15	22	37	36	42	38	44	51	56	56	55	50	42	41	43	45	36.8	56.4
6-Apr-06	44	44	44	44	A	39	36	34	25	31	35	37	42	50	52	52	52	52	51	49	45	47	50	51	43.7	52.0
7-Apr-06	49	50	44	38	A	40	41	28	31	32	42	52	55	56	57	57	57	56	55	52	51	53	53	52	47.8	56.9
8-Apr-06	48	49	47	43	A	39	24	30	28	29	38	46	50	56	56	58	55	52	49	47	48	42	39	40	44.1	57.7
9-Apr-06	40	43	47	56	A	58	56	54	56	56	57	53	51	50	50	50	49	49	48	47	45	45	45	46	50.1	58.2
10-Apr-06	45	45	40	39	A	36	35	28	36	44	49	51	52	53	53	53	53	54	52	47	46	43	45	44	45.3	53.7
11-Apr-06	44	44	33	33	A	32	28	26	C	C	C	A	53	53	53	53	53	52	52	45	45	45	42	46	43.8	53.1
12-Apr-06	45	42	41	33	A	26	33	30	27	31	39	47	47	44	43	42	45	48	50	49	47	45	48	48	41.4	49.8
13-Apr-06	47	46	42	39	A	36	33	35	42	45	46	47	47	48	48	48	49	52	52	46	44	44	42	43	44.3	52.3
14-Apr-06	39	39	37	37	A	34	35	34	34	36	38	48	49	49	48	49	47	47	47	46	44	42	38	39	41.5	49.4
15-Apr-06	40	38	36	32	A	31	27	32	38	41	44	46	46	47	46	45	46	43	42	41	40	40	38	38	39.8	46.7
16-Apr-06	39	36	31	36	A	37	38	29	30	35	42	48	48	47	49	48	49	50	49	44	41	43	40	40	41.2	50.0
17-Apr-06	38	36	35	35	A	31	30	30	34	40	44	45	45	45	45	44	44	44	44	42	40	38	37	38	39.4	45.1
18-Apr-06	38	36	34	32	A	33	31	29	35	39	45	48	50	51	51	51	49	47	44	41	42	40	37	39	41.1	51.1
19-Apr-06	37	36	37	33	A	34	34	34	38	42	46	50	52	53	52	51	49	48	48	46	45	44	43	44	43.3	53.3
20-Apr-06	44	42	42	39	A	39	32	36	43	44	46	47	48	47	47	46	45	45	44	43	40	39	42	43	42.8	48.4
21-Apr-06	38	39	42	37	A	34	33	32	34	37	38	41	41	41	42	42	41	41	41	39	39	38	35	34	38.2	42.3
22-Apr-06	34	34	34	35	A	34	34	35	39	41	44	45	46	47	47	47	47	46	44	43	39	35	36	31	39.8	47.5
23-Apr-06	31	30	29	31	A	30	29	27	28	32	37	44	46	47	50	53	54	54	52	48	48	48	49	49	41.1	54.5
24-Apr-06	45	37	36	31	A	30	28	31	32	38	46	52	54	55	58	60	61	64	60	56	56	53	53	54	47.5	63.6
25-Apr-06	53	49	42	29	A	33	27	27	34	40	50	55	60	62	61	58	59	62	58	54	52	54	53	51	48.8	62.0
26-Apr-06	50	43	41	40	A	33	26	30	39	54	60	59	60	59	58	60	58	58	57	55	52	49	46	43	49.2	60.2
27-Apr-06	41	39	39	37	A	34	39	45	47	49	51	51	52	54	55	56	57	56	53	50	46	42	44	45	47.1	56.9
28-Apr-06	44	43	42	40	A	33	36	39	41	43	42	43	44	45	38	39	37	36	35	35	32	33	33	33	38.5	44.7
29-Apr-06	33	32	36	40	A	48	50	52	53	53	53	53	56	58	58	58	57	55	51	47	47	45	41	39	48.5	58.4
30-Apr-06	39	38	37	39	A	34	32	34	39	45	46	46	48	50	54	54	55	54	54	50	44	43	45	45	44.5	54.8
Hourly Avg	41.6	39.8	38.1	36.9	N	34.8	32.8	32.3	35.0	38.8	43.2	46.8	49.1	50.2	50.7	51.0	50.9	50.7	49.0	46.3	44.6	43.5	42.9	42.8		
Hourly Max	53.0	49.6	47.3	56.2	0.0	58.2	55.6	54.0	55.6	56.3	59.6	59.3	60.3	62.0	60.7	60.2	61.1	63.6	59.9	56.1	56.0	53.8	53.4	54.0		



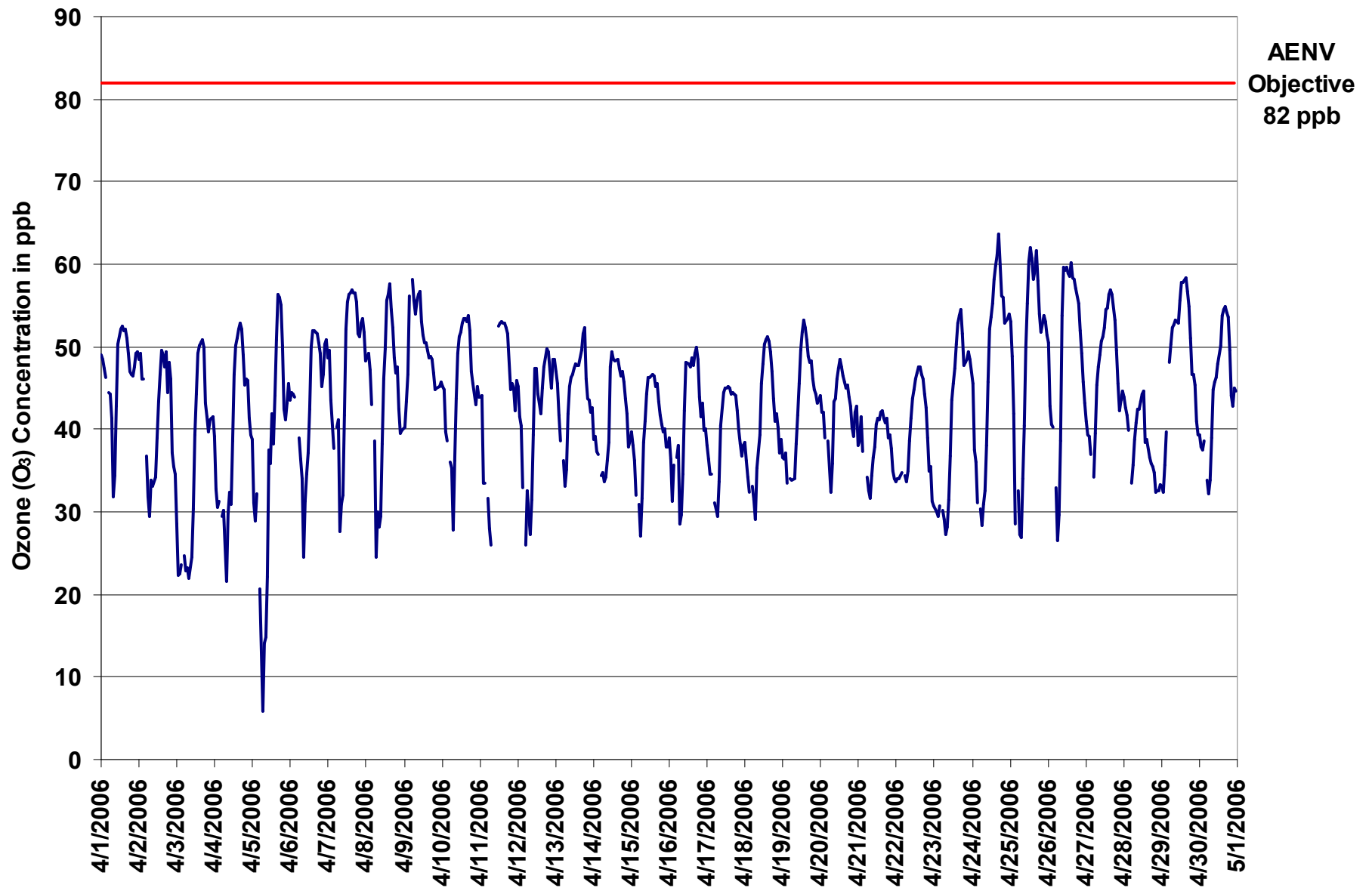


Figure 40. PASZA - Beaverlodge Ozone 1-hr Average Monthly Trend

Station: Beaverlodge  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

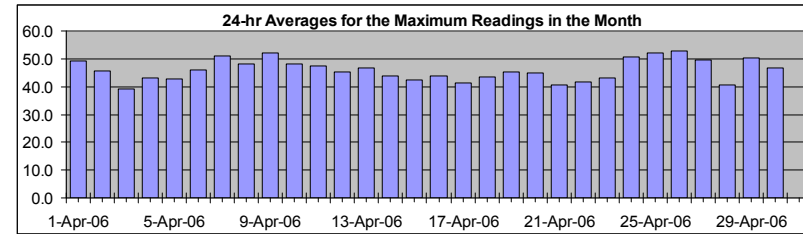
**Ozone (O<sub>3</sub>)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Value:	65.3	ppb	24-Apr	17:00 18:00
Maximum 24-hr Value:	52.6	ppb	26-Apr	

AIC Time:	31 hrs	Operational Time:	686 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	62.4	58.1	51.6	46.3	40.6	33.4	27.6	45.9 ppb	46.3 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-Apr-06	51	49	49	47	A	47	48	45	46	41	49	53	53	53	53	52	51	49	47	47	49	50	50	49.2	53.4	
2-Apr-06	50	51	49	47	A	41	39	37	38	35	39	42	47	49	52	52	53	51	49	55	55	46	37	37	45.6	55.2
3-Apr-06	33	24	24	25	A	30	28	31	27	29	37	45	48	51	51	52	52	46	44	43	43	43	44	39.1	52.3	
4-Apr-06	44	42	33	32	A	36	32	26	34	35	36	43	51	51	52	53	54	54	52	47	48	47	48	43	43.1	54.1
5-Apr-06	43	43	40	39	A	31	14	18	30	39	45	42	45	42	48	55	58	58	58	54	47	43	45	46	42.7	58.0
6-Apr-06	45	45	45	45	A	41	38	36	31	36	37	40	46	53	53	53	53	53	52	52	51	51	52	52	46.1	53.2
7-Apr-06	51	51	49	41	A	43	45	45	40	38	47	57	56	57	57	58	57	57	58	54	53	54	55	53	51.1	58.1
8-Apr-06	52	51	48	47	A	42	37	35	34	34	44	48	55	57	57	59	57	55	53	49	51	51	45	41	48.1	58.8
9-Apr-06	43	46	50	61	A	61	58	58	58	58	56	52	51	51	51	49	49	49	48	46	46	47	47	51.9	60.9	
10-Apr-06	46	46	44	43	A	42	40	36	41	49	51	53	53	54	55	54	55	55	54	50	48	45	46	46	48.1	55.2
11-Apr-06	46	46	44	39	A	41	32	29	C	C	C	A	53	54	54	54	54	53	53	49	52	51	47	52	47.6	53.7
12-Apr-06	49	45	46	40	A	37	36	32	30	37	46	52	51	46	45	44	49	49	52	52	49	48	52	51	45.1	52.0
13-Apr-06	49	47	45	40	A	39	36	38	44	47	48	48	49	49	49	49	52	54	55	50	49	46	44	45	46.6	55.3
14-Apr-06	42	41	40	39	A	37	38	37	36	40	41	52	51	50	50	49	48	48	49	47	45	44	40	41	43.8	51.6
15-Apr-06	41	40	38	36	A	34	31	37	41	43	48	48	47	48	48	47	47	46	45	43	42	43	41	41	42.3	47.8
16-Apr-06	41	39	36	39	A	40	40	35	34	39	46	49	49	49	50	50	50	51	50	48	43	45	41	41	43.8	50.9
17-Apr-06	40	38	36	36	A	33	34	34	38	44	46	46	46	46	46	45	45	45	45	45	42	42	39	39	41.4	46.3
18-Apr-06	40	37	37	34	A	34	33	32	39	43	48	49	52	52	52	52	51	48	47	44	43	44	44	42	43.3	52.0
19-Apr-06	39	39	40	35	A	36	36	38	42	45	48	52	53	54	55	53	50	49	49	48	46	46	44	45	45.4	54.5
20-Apr-06	45	44	44	42	A	41	38	39	46	45	48	48	49	49	47	47	46	46	46	45	42	41	46	46	44.8	49.5
21-Apr-06	42	42	46	40	A	36	36	34	37	39	39	42	43	43	44	45	43	43	44	41	41	39	37	35	40.5	45.9
22-Apr-06	35	35	36	36	A	36	36	38	41	45	45	46	47	47	49	48	48	47	46	46	43	38	37	37	41.8	48.5
23-Apr-06	34	34	32	32	A	31	30	29	30	34	42	45	48	50	52	54	55	56	54	50	49	49	50	50	43.1	55.9
24-Apr-06	51	45	40	37	A	32	31	36	35	43	51	54	55	57	60	61	64	65	63	59	58	54	55	56	50.5	65.3
25-Apr-06	55	55	48	37	A	34	34	32	39	43	53	59	62	65	63	60	62	64	60	57	54	55	54	53	52.0	64.6
26-Apr-06	51	52	43	43	A	45	30	36	48	60	63	60	61	61	60	62	60	60	59	58	55	51	48	45	52.6	62.8
27-Apr-06	43	41	41	39	A	39	43	48	49	50	52	52	54	56	57	58	59	58	55	52	51	48	46	46	49.5	59.2
28-Apr-06	45	44	43	43	A	38	41	41	43	44	44	45	46	46	41	41	38	37	36	36	35	34	34	34	40.4	46.0
29-Apr-06	34	35	38	41	A	52	52	55	54	54	54	54	58	59	59	60	58	58	54	50	49	48	43	41	50.5	59.5
30-Apr-06	41	41	41	41	A	36	36	36	44	46	46	48	50	52	57	57	57	55	55	53	47	45	46	45	46.8	57.5
Hourly Avg	44.0	42.9	41.4	39.8	N	38.8	36.7	36.8	39.5	42.6	46.5	49.2	51.1	51.8	52.2	52.6	52.6	52.3	51.3	49.2	47.5	46.2	45.3	44.8		
Hourly Max	54.5	54.5	49.8	60.7	0.0	60.9	58.4	57.6	57.9	60.2	62.8	60.3	62.0	64.6	62.6	62.1	63.6	65.3	62.7	59.2	57.9	54.6	55.3	55.7		

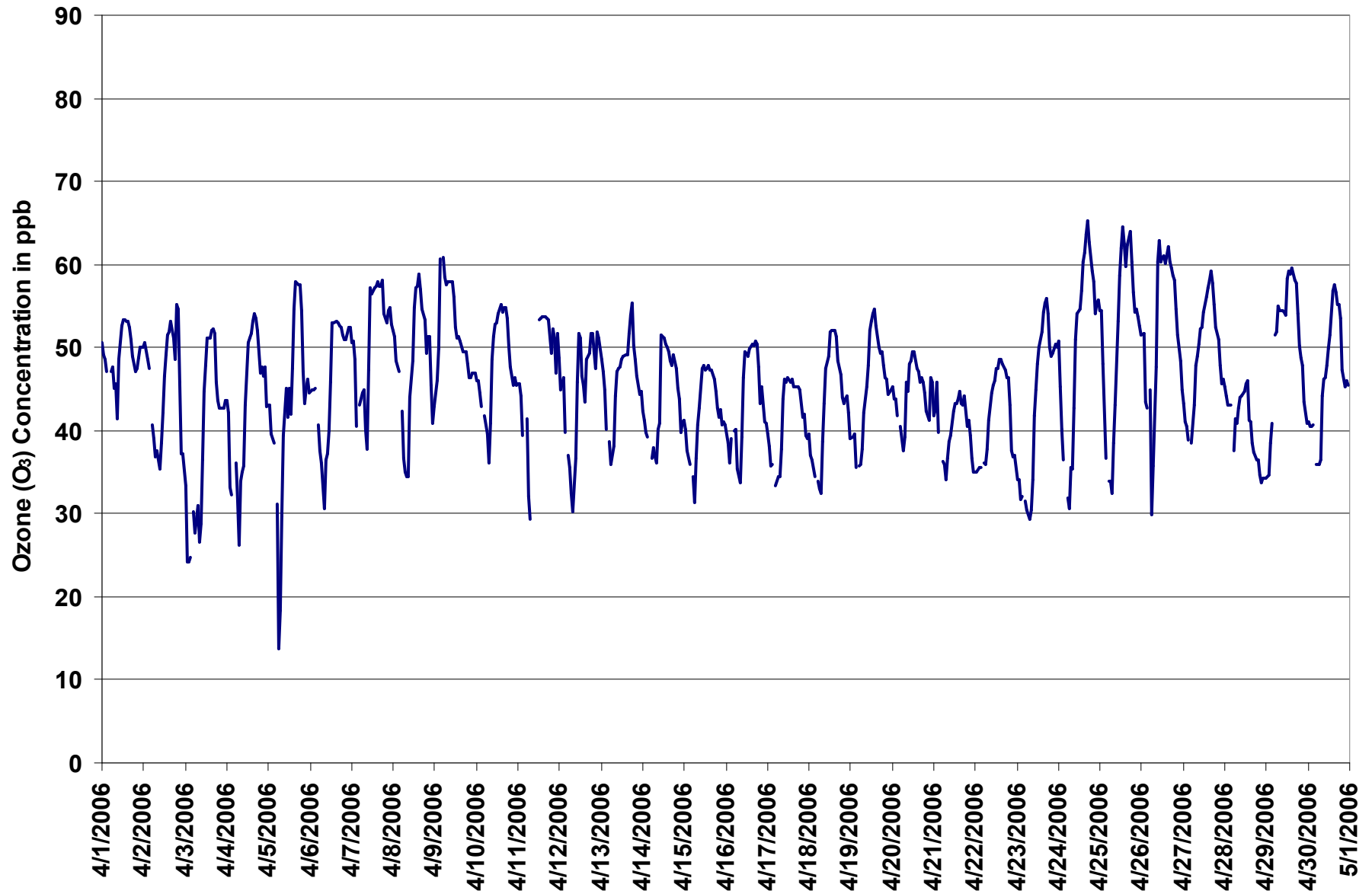
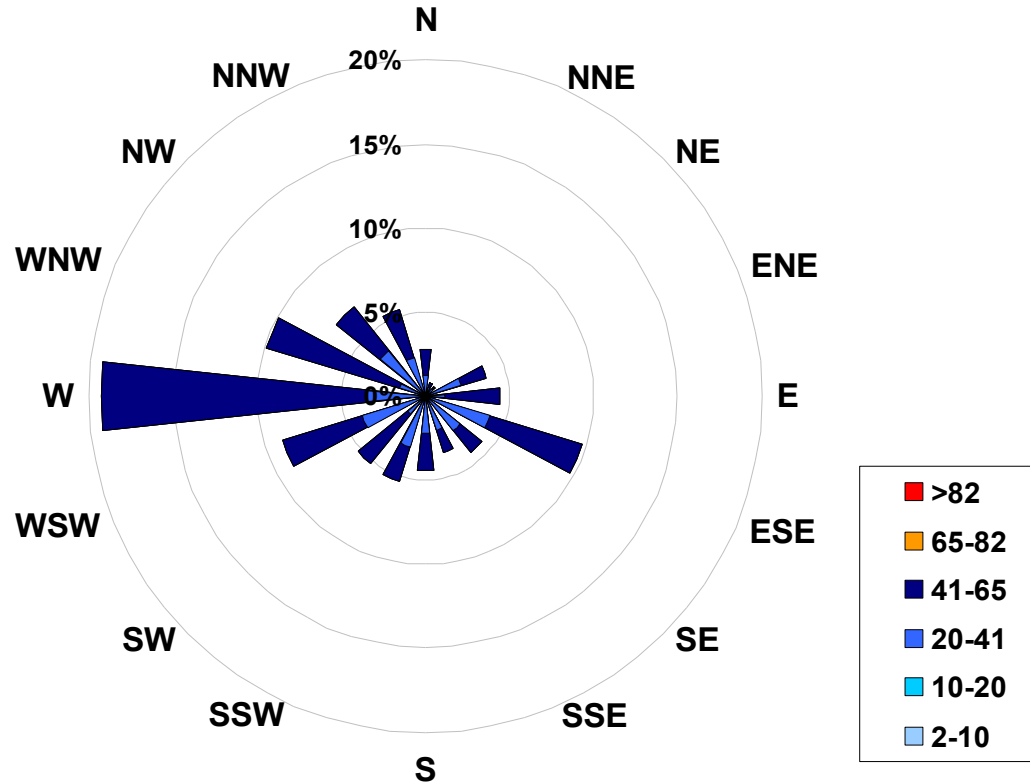


Figure 41. PASZA - Beaverlodge Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Ozone (in ppb) Located at the Beaverlodge Site for April 2006**



**Calms: 0%**

Frequency Distribution of O <sub>3</sub> in ppb			Frequency (hrs)
Range			
2.0	<	10	1
10	to	20	2
20	to	41	258
41	to	65	425
65	to	82	0
	>	82	0
Total Non-Zero Values			686

# PASZA - Beaverlodge - Ozone Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

## EIGHT HOUR RUNNING AVERAGE TABLE

## Ozone (O<sub>3</sub>)

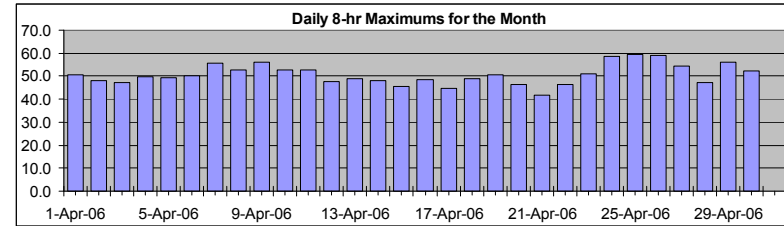
Monitoring Dates: April 1, 2006 to May 1, 2006

Objective Limit: Alberta Environment: 8-hr 65 ppb

**Summary**

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	59.4	ppb	25-Apr	18:00	19:00		

Percentile	99	95	75	50	25	5	1
	58.4	54.6	48.0	43.1	38.0	32.4	24.1



**Status Flag Characters**

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

Day	Mountain Standard Time																							Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Apr-06	50	50	50	49	49	48	47	46	43	41	41	41	43	44	45	46	48	50	51	50	50	49	49	48	50.7	
2-Apr-06	48	48	48	48	48	46	44	41	39	37	35	34	35	36	39	41	43	45	46	47	48	46	45	43	48.0	
3-Apr-06	40	37	34	31	29	27	26	24	23	23	24	27	29	32	35	39	42	46	47	47	47	46	45	44	47.4	
4-Apr-06	42	40	38	37	37	35	34	31	29	29	29	30	32	35	38	41	44	47	49	50	50	49	48	47	49.9	
5-Apr-06	45	42	40	38	37	33	28	24	21	20	21	22	24	26	31	36	41	45	47	49	49	49	49	49	49.5	
6-Apr-06	47	46	44	44	44	43	42	41	38	36	35	34	35	36	38	40	44	46	48	50	50	50	50	50	50.3	
7-Apr-06	49	49	48	47	47	46	45	41	39	36	36	38	40	42	44	48	51	54	56	56	55	55	54	54	55.7	
8-Apr-06	53	52	51	50	49	47	43	40	37	34	33	34	36	38	42	45	48	51	53	53	52	51	49	46	52.8	
9-Apr-06	45	44	43	44	44	46	49	51	53	55	56	56	55	54	53	53	52	51	50	49	49	48	47	47	56.1	
10-Apr-06	46	46	45	44	43	42	41	38	37	37	38	40	41	44	46	49	51	52	53	52	51	50	49	48	52.7	
11-Apr-06	47	46	43	42	41	39	37	34	N	N	N	N	N	N	N	N	N	N	53	52	51	50	48	48	52.6	
12-Apr-06	47	45	44	42	42	39	38	35	33	31	31	33	35	37	39	40	42	45	46	46	46	46	47	48	47.6	
13-Apr-06	48	48	47	45	45	44	42	40	39	39	40	41	41	43	45	46	47	48	49	49	48	48	47	46	48.9	
14-Apr-06	45	44	42	40	40	39	38	36	36	35	36	37	39	40	42	44	46	47	48	48	48	47	46	45	44	47.9
15-Apr-06	43	42	40	39	38	36	35	34	33	34	35	37	38	40	43	44	45	45	45	44	44	44	43	42	41	45.5
16-Apr-06	40	39	38	37	37	36	36	35	34	33	35	37	38	40	41	43	46	48	48	48	47	47	45	45	48.5	
17-Apr-06	43	41	40	39	38	36	35	34	33	33	35	36	37	39	41	44	46	48	49	49	48	47	46	44	42	44.7
18-Apr-06	40	39	38	37	36	36	35	34	33	34	35	37	39	41	44	46	48	49	49	48	47	46	44	42	49.1	
19-Apr-06	41	39	39	38	37	36	36	35	35	36	37	40	41	44	46	48	49	50	50	50	49	48	47	46	50.4	
20-Apr-06	45	45	44	43	43	42	40	39	39	39	40	41	42	43	45	46	46	46	46	46	46	45	44	43	43	46.5
21-Apr-06	42	41	41	40	40	39	38	36	36	35	35	35	36	37	38	40	40	41	41	41	41	40	40	39	41.8	
22-Apr-06	38	37	36	35	35	34	34	34	35	36	37	39	40	41	43	45	46	46	46	46	46	45	44	42	40	46.2
23-Apr-06	38	36	34	33	32	31	30	30	29	29	31	32	34	36	39	42	45	48	50	50	51	51	51	50	50.9	
24-Apr-06	49	47	45	43	42	40	37	34	32	32	34	37	39	42	46	49	53	56	58	58	59	58	58	57	58.7	
25-Apr-06	56	54	52	49	48	45	41	37	34	33	34	38	41	44	49	53	56	58	59	59	58	57	56	55	59.4	
26-Apr-06	54	52	50	48	47	45	41	38	36	37	40	43	45	48	52	56	59	59	59	58	57	56	55	52	59.1	
27-Apr-06	50	48	46	43	42	40	39	39	40	42	43	45	46	49	51	52	53	54	54	54	53	52	50	49	54.5	
28-Apr-06	47	46	44	43	43	41	40	39	39	39	39	40	40	42	42	42	41	41	40	39	37	36	35	34	47.4	
29-Apr-06	34	33	33	34	34	36	39	42	44	47	50	52	52	54	54	55	56	56	56	55	54	52	50	48	55.9	
30-Apr-06	46	43	42	41	40	38	37	36	36	37	38	39	40	42	45	48	50	51	52	52	52	51	50	49	52.3	

Hourly Max	56.1	54.3	52.0	49.6	49.4	48.0	48.6	50.6	52.8	54.7	56.1	55.6	55.1	54.1	54.4	56.1	58.5	59.1	59.4	59.3	58.7	58.5	57.8	57.1
------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

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

Station: Beaverlodge  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

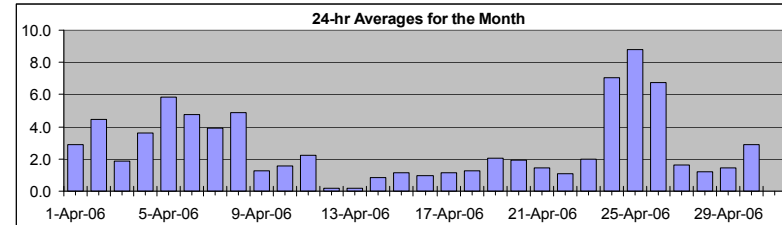
### Particulate Matter (PM<sub>2.5</sub>)

Monitoring Dates: April 1, 2006 to May 1, 2006

Draft Objective Limit: Alberta Environment: 1-hr - µg/m<sup>3</sup> 24-hr 30 µg/m<sup>3</sup>  
**Summary**

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	14.3 µg/m <sup>3</sup> 2-Apr 16:00 17:00
Maximum 24-hr Value:	8.8 µg/m <sup>3</sup> 25-Apr

AIC Time:	0 hrs	Operational Time:	713 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.4%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	10.3	8.7	4.1	1.8	0.6	0.0	0.0	2.7 2 µg/m <sup>3</sup>	1.9 µg/m <sup>3</sup>



#### Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
1-Apr-06	3	2	1	3	3	1	3	1	7	4	3	3	3	3	2	3	3	5	4	3	2	2	2	2	2	2.9	7.3
2-Apr-06	2	4	4	4	6	4	4	6	5	6	6	4	4	4	6	6	14	6	10	0	2	2	0	0	4.5	14.3	
3-Apr-06	0	0	1	0	0	1	2	4	0	4	2	0	0	D	0	0	0	2	3	3	6	6	4	3	1.8	6.1	
4-Apr-06	3	4	4	4	4	4	4	4	3	4	4	3	0	0	1	1	1	4	4	7	7	5	6	6	3.6	7.0	
5-Apr-06	5	7	5	4	6	5	6	8	9	8	4	4	4	10	7	4	4	2	5	10	8	6	5	6	5.9	9.7	
6-Apr-06	6	4	4	5	6	6	7	7	8	7	7	6	4	0	2	2	3	3	3	2	4	7	5	4	4.8	8.5	
7-Apr-06	5	4	4	4	4	4	3	6	7	10	2	0	0	1	2	1	2	2	2	12	5	8	4	2	3.9	12.2	
8-Apr-06	2	2	5	8	7	5	7	7	10	8	6	3	3	1	2	4	4	2	3	3	6	6	7	7	4.9	9.7	
9-Apr-06	7	7	1	D	0	1	2	1	0	0	0	0	0	0	0	0	1	1	2	2	2	1	0	0	1.2	7.4	
10-Apr-06	0	0	0	0	0	1	2	5	3	0	0	0	0	0	0	0	1	1	1	4	4	7	4	3	1.6	7.0	
11-Apr-06	2	2	3	3	3	2	3	5	5	2	C	C	C	2	0	0	0	0	0	4	5	1	3	2	2.3	5.1	
12-Apr-06	1	0	0	0	0	0	0	0	0	0	0	0	D	0	0	0	0	D	0	0	0	0	1	0.2	1.5		
13-Apr-06	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.2	1.1	
14-Apr-06	0	0	0	0	0	0	0	0	0	0	1	5	3	2	1	1	0	0	0	1	2	0	2	2	0.9	5.1	
15-Apr-06	2	1	1	1	1	2	2	2	1	1	0	0	0	0	1	3	0	3	1	2	2	1	0	1	1.1	3.0	
16-Apr-06	1	1	1	0	1	1	1	2	1	1	0	0	0	0	0	2	0	0	0	2	3	2	1	1	1.0	3.4	
17-Apr-06	1	0	1	1	1	1	2	2	2	0	0	0	0	0	1	2	1	1	2	1	2	2	1	1	1.2	2.4	
18-Apr-06	1	1	1	1	0	1	2	2	1	1	0	0	0	0	1	1	1	1	2	3	3	2	4	2	1.3	4.1	
19-Apr-06	2	1	0	0	1	1	2	3	3	3	2	0	1	2	1	1	2	2	2	3	5	4	4	3	2.0	4.7	
20-Apr-06	3	3	2	3	2	2	2	2	0	1	1	1	1	3	2	1	1	2	2	2	3	2	1	0	1.9	3.5	
21-Apr-06	1	0	0	0	1	0	1	0	1	1	1	0	1	2	3	4	4	4	3	2	2	2	2	2	1.5	4.2	
22-Apr-06	1	2	2	2	1	2	2	1	1	1	1	0	0	0	0	0	0	1	1	2	1	2	0	1	1.1	2.4	
23-Apr-06	1	0	1	1	1	0	2	1	1	1	0	0	0	1	2	2	2	3	3	4	5	6	5	5	2.0	5.9	
24-Apr-06	5	5	5	5	5	4	6	7	7	7	6	6	6	6	6	6	7	8	9	10	14	10	10	8	7.0	14.2	
25-Apr-06	8	10	10	11	10	9	11	11	10	9	7	6	6	6	8	10	6	9	10	9	10	9	9	9	8.8	11.2	
26-Apr-06	9	9	9	9	8	8	9	9	10	3	5	7	8	9	9	10	8	6	5	3	4	3	2	1	6.7	9.7	
27-Apr-06	1	2	1	2	2	1	2	2	1	0	1	0	1	1	2	2	2	2	2	2	3	4	1	2	1.6	3.8	
28-Apr-06	1	0	1	0	0	1	1	3	1	1	2	1	0	0	0	1	0	1	3	1	4	4	2	1	1.2	4.3	
29-Apr-06	3	1	0	1	1	0	1	1	1	0	1	0	2	1	1	0	2	2	2	5	3	1	2	3	1.5	4.7	
30-Apr-06	2	2	2	1	2	2	3	3	2	0	0	0	0	1	2	3	4	5	5	6	6	12	4	3	2.9	11.5	
Hourly Avg	2.7	2.5	2.3	2.6	2.6	2.3	3.1	3.6	3.4	2.7	2.1	1.8	1.7	2.0	2.0	2.3	2.6	2.6	3.1	3.6	4.2	3.8	3.0	2.7			
Hourly Max	8.7	9.6	10.0	10.5	9.9	9.5	10.6	11.2	9.8	9.5	7.4	7.2	8.3	9.7	9.1	9.6	14.3	8.9	9.9	12.2	14.2	11.5	10.0	8.6			

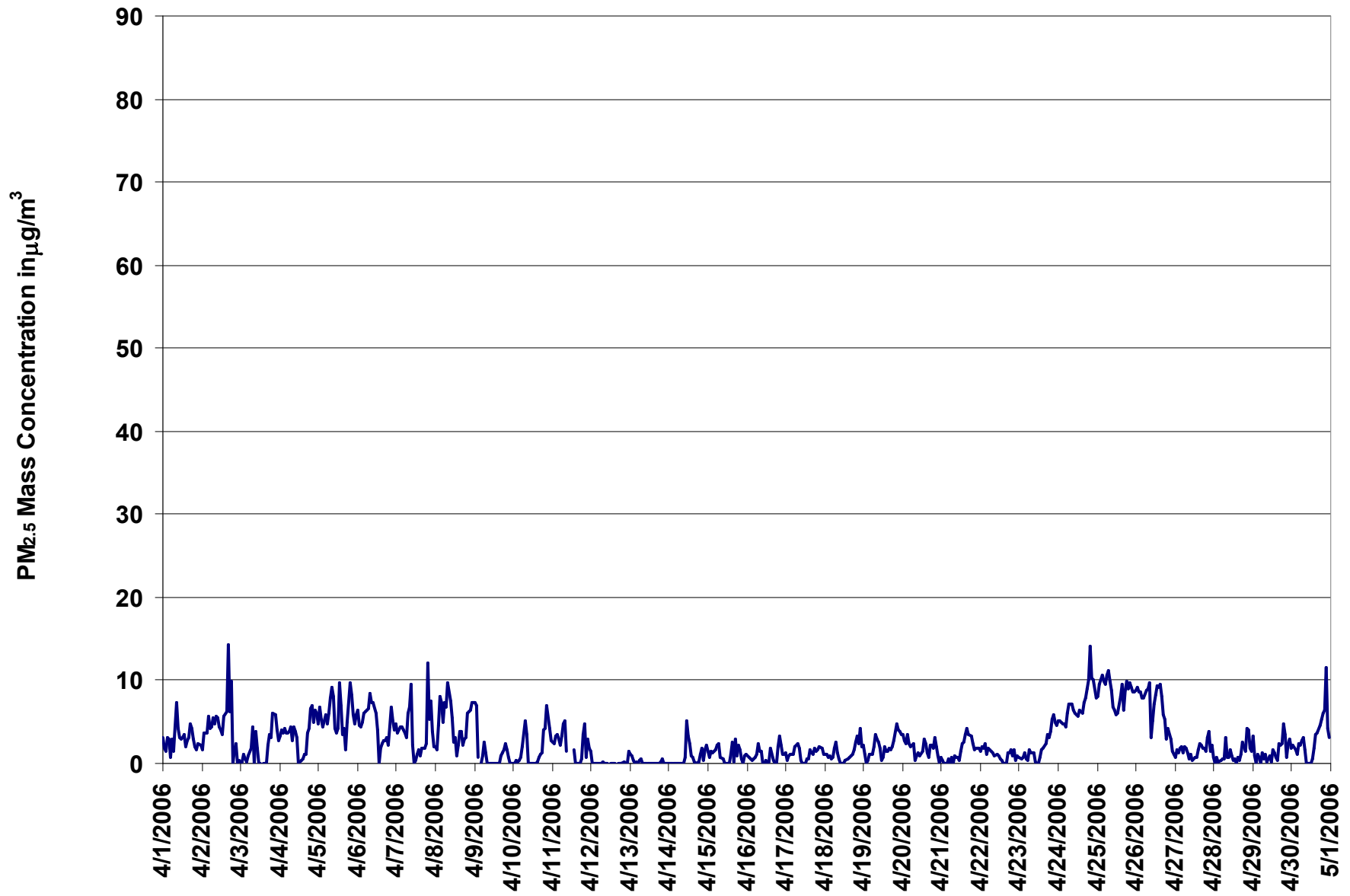


Figure 42. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Beaverlodge  
 Station Owner: PASZA

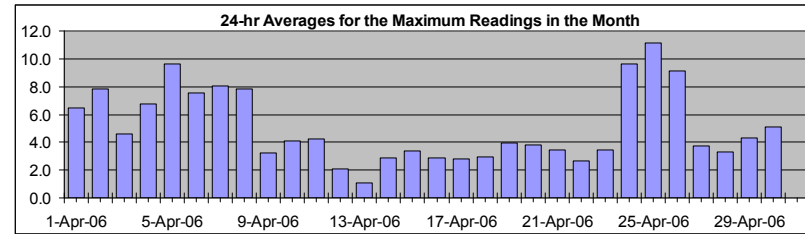
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Particulate Matter (PM<sub>2.5</sub>)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Average:	30.8	µg/m <sup>3</sup>	7-Apr	19:00 20:00
Maximum 24-hr Value:	11.1	µg/m <sup>3</sup>	25-Apr	



AIC Time:	0 hrs	Operational Time:	713 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.4%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	16.5	11.3	7.0	4.0	2.6	0.9	0.3	5.1	4 µg/m <sup>3</sup>
								4 µg/m <sup>3</sup>	4.4 µg/m <sup>3</sup>

**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Apr-06	5	4	3	5	5	4	9	6	19	12	7	5	8	8	4	6	7	8	6	5	3	7	5	5	6.5	18.7
2-Apr-06	4	6	7	6	8	6	8	8	7	8	7	8	7	5	10	16	21	9	17	5	6	5	1	2	7.8	20.6
3-Apr-06	2	3	4	2	2	3	5	10	3	7	5	2	1	D	4	4	3	7	8	5	9	8	6	4	4.6	9.9
4-Apr-06	5	6	5	5	6	6	5	6	6	6	6	8	7	3	4	6	6	11	7	12	8	7	13	8	6.8	13.0
5-Apr-06	6	10	7	7	8	7	8	11	17	13	11	11	7	14	14	9	9	6	8	15	10	8	6	7	9.7	16.5
6-Apr-06	8	6	6	7	8	7	7	9	12	9	9	9	10	8	4	5	5	5	7	5	10	11	9	6	7.5	11.5
7-Apr-06	6	5	8	6	6	5	7	12	11	15	6	4	3	4	4	4	5	7	8	31	7	14	10	3	8.0	30.8
8-Apr-06	5	4	7	11	10	7	11	10	16	10	9	5	7	3	5	7	7	4	5	5	10	10	10	9	7.8	16.2
9-Apr-06	9	10	2	D	2	3	4	5	3	2	2	2	2	1	2	1	4	3	4	4	3	2	2	1	3.2	10.1
10-Apr-06	1	1	4	2	2	5	5	8	9	3	0	1	1	2	4	3	7	4	4	7	5	11	8	4	4.1	10.9
11-Apr-06	3	5	6	5	4	4	5	6	8	4	C	C	C	4	3	0	0	1	2	6	8	2	8	5	4.3	8.4
12-Apr-06	5	3	2	3	1	1	1	1	2	1	0	D	7	1	1	0	D	3	3	1	2	2	3	3	2.1	7.2
13-Apr-06	2	2	1	1	2	1	2	2	1	0	2	0	0	0	0	0	1	1	1	1	2	2	0	0	1.1	2.4
14-Apr-06	1	0	1	1	2	1	1	1	0	0	3	10	8	8	3	4	3	2	3	3	4	2	2	5	2.8	9.8
15-Apr-06	4	2	4	3	3	4	4	4	2	3	2	1	2	2	4	10	2	5	5	4	4	2	2	3	3.4	10.5
16-Apr-06	4	2	2	5	2	2	3	4	3	3	3	1	2	3	3	5	2	2	1	3	5	4	2	2	2.9	5.3
17-Apr-06	2	2	2	2	2	3	4	4	3	2	1	2	3	3	3	5	3	4	3	3	4	3	3	3	2.8	4.6
18-Apr-06	2	4	2	2	2	2	4	4	4	2	1	1	2	2	2	3	2	3	5	5	4	7	4	4	2.9	6.7
19-Apr-06	4	2	1	2	3	3	4	5	5	9	3	2	2	4	4	4	3	3	4	4	6	5	6	6	3.9	8.6
20-Apr-06	4	4	4	6	4	3	4	4	2	2	3	2	4	5	4	4	3	4	5	5	6	4	3	2	3.8	5.5
21-Apr-06	3	2	2	1	2	3	3	3	3	2	2	2	4	5	5	6	5	5	5	4	3	4	3	3	3.4	6.2
22-Apr-06	3	3	3	4	3	3	3	3	3	2	3	3	3	2	2	1	1	3	3	3	2	3	2	2	2.6	4.0
23-Apr-06	2	2	2	2	2	1	3	3	3	3	2	0	1	3	4	4	4	5	5	7	6	7	7	6	3.5	7.1
24-Apr-06	6	7	7	7	7	6	8	10	9	8	7	8	8	9	9	8	9	11	11	20	22	12	13	9	9.7	22.1
25-Apr-06	10	11	13	13	12	11	14	14	11	11	10	10	9	10	11	11	10	12	13	10	11	10	10	10	11.1	13.8
26-Apr-06	10	11	11	10	10	10	11	11	13	8	10	10	11	12	11	12	11	11	9	7	5	5	4	3	9.1	13.4
27-Apr-06	3	3	3	3	3	3	5	3	3	3	3	2	4	4	5	5	4	5	4	3	6	5	3	3	3.7	6.2
28-Apr-06	3	1	3	2	3	2	4	5	3	3	3	4	3	2	2	3	2	4	5	4	7	5	3	3	3.3	6.8
29-Apr-06	5	4	1	3	3	3	6	3	3	3	6	3	5	6	5	3	5	4	4	8	6	3	5	5	4.3	7.7
30-Apr-06	3	4	3	3	4	4	5	5	4	2	1	1	1	2	4	7	7	7	7	8	10	17	6	4	5.1	16.5
Hourly Avg	4.4	4.4	4.2	4.4	4.5	4.1	5.4	6.0	6.3	5.2	4.4	4.2	4.5	4.7	4.6	5.1	5.3	5.2	5.7	6.6	6.5	6.2	5.3	4.4		
Hourly Max	9.8	11.4	13.3	13.3	12.1	10.7	13.8	13.5	18.7	15.5	10.7	10.9	11.2	14.4	13.7	15.5	20.6	12.4	16.8	30.8	22.1	16.5	13.0	9.8		



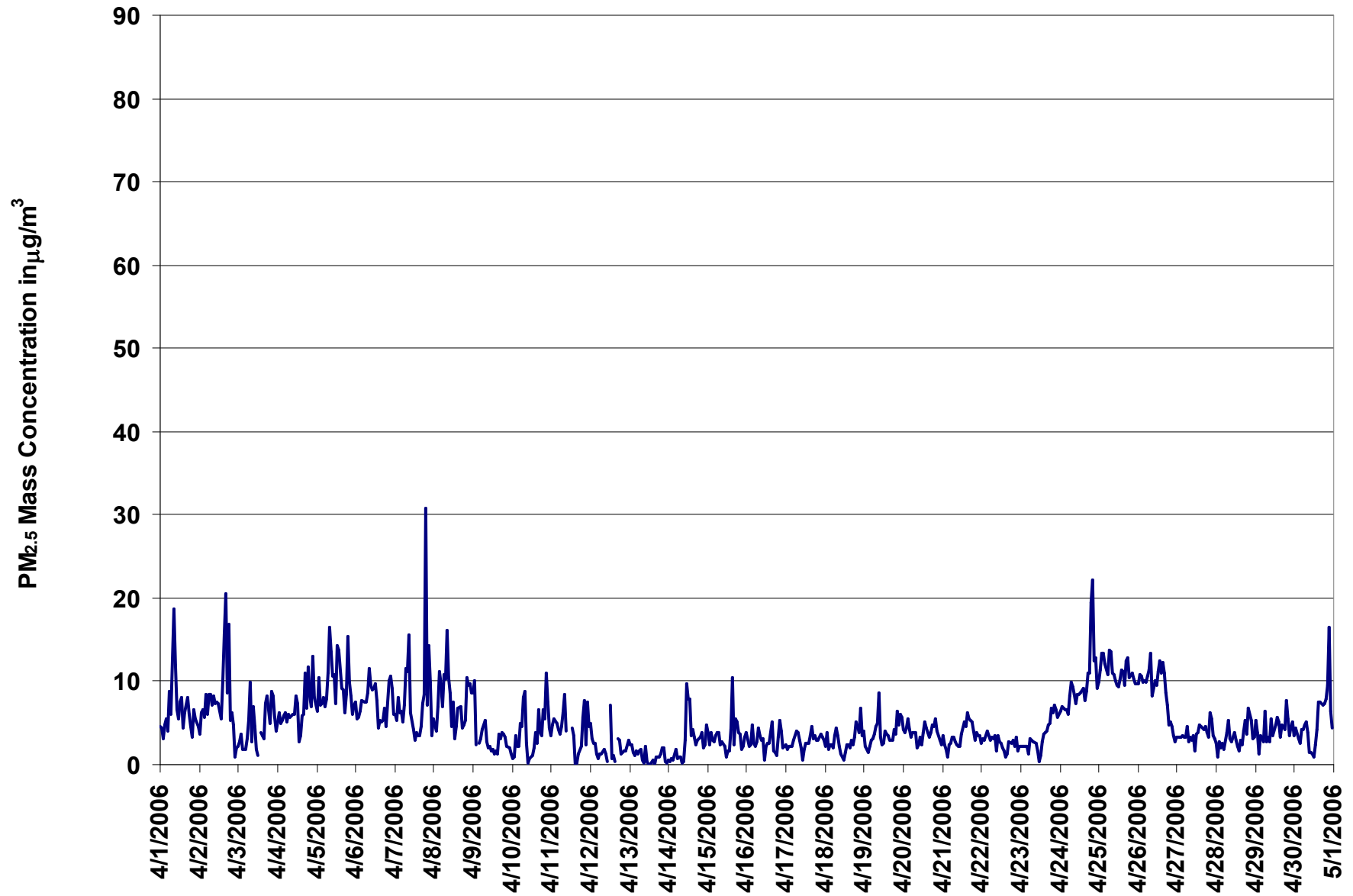
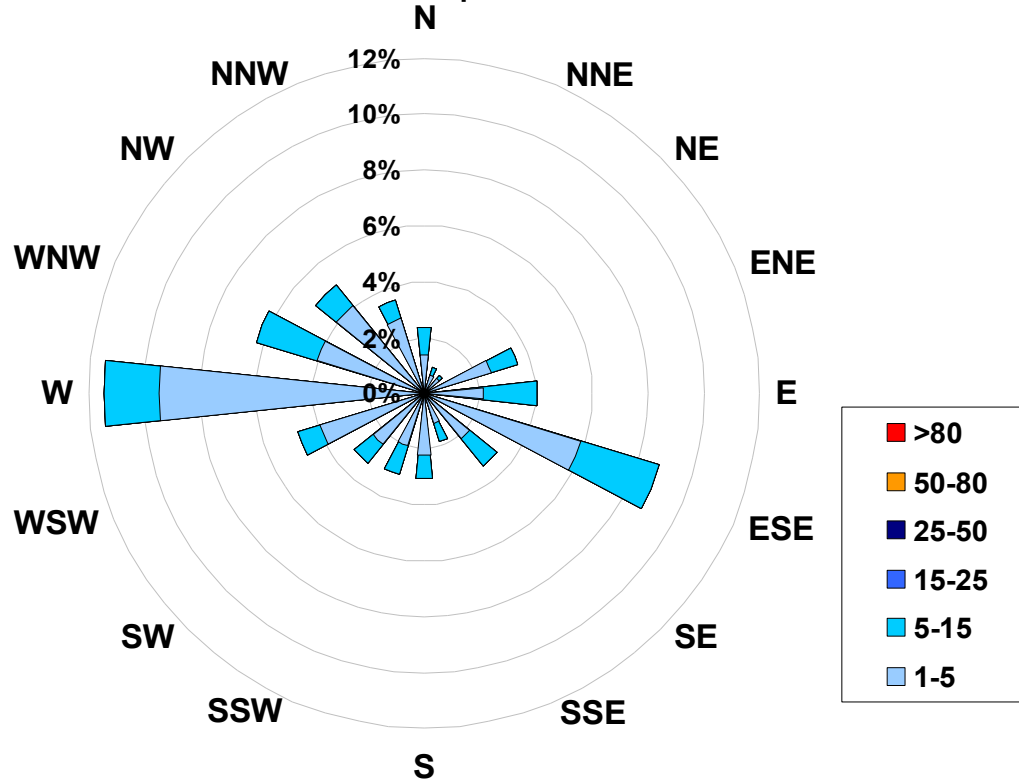


Figure 43. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Beaverlodge Site for April 2006**



**Calms: 0%**

Frequency Distribution of PM <sub>2.5</sub> in µg/m <sup>3</sup>			Frequency (hrs)
Range			
1.0	<	5	579
5	to	15	134
15	to	25	0
25	to	50	0
50	to	80	0
	>	80	0
Total Non-Zero Values			713

## PASZA - Beaverlodge - Relative Humidity Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

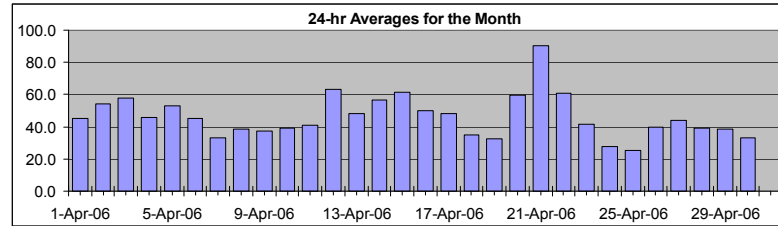
### Relative Humidity (RH)

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Maximum 1-hr Average:	96.8	%	3-Apr	2:00 3:00
Maximum 24-hr Value:	90.6	%	21-Apr	

AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	94.4	87.3	59.1	44.2	29.7	17.8	11.4	46.2 %	44.2 %



**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
1-Apr-06	51	51	51	50	56	53	50	55	56	49	35	36	37	37	35	36	39	43	49	51	50	43	39	39	45.4	55.8
2-Apr-06	41	41	48	49	57	58	65	63	56	46	43	37	33	32	32	33	47	44	62	74	68	84	92	95	54.1	94.7
3-Apr-06	96	96	97	95	91	91	90	78	77	73	61	49	41	29	26	25	23	25	33	38	39	41	42	41	58.1	96.8
4-Apr-06	46	55	63	64	69	71	69	67	56	51	42	34	28	26	24	22	22	26	32	42	47	47	47	51	46.0	71.3
5-Apr-06	53	59	70	66	76	77	87	74	58	51	39	45	39	38	36	33	31	31	34	46	53	59	59	58	53.1	87.4
6-Apr-06	56	54	54	58	65	70	74	75	73	65	57	44	36	25	22	23	23	24	26	27	29	34	34	33	45.0	74.5
7-Apr-06	38	38	46	50	49	47	47	48	40	40	30	21	18	20	19	19	19	21	26	32	33	34	32	32	33.3	50.1
8-Apr-06	35	33	36	42	47	50	61	55	53	46	35	27	24	23	21	23	26	28	33	37	40	47	52	49	38.5	61.3
9-Apr-06	54	59	57	44	35	40	48	46	43	36	31	25	24	24	24	26	27	28	30	33	38	40	43	44	37.5	59.5
10-Apr-06	48	50	58	60	58	63	64	61	52	40	32	28	26	23	22	22	22	20	24	29	32	34	37	39	39.3	63.8
11-Apr-06	41	44	59	62	64	67	66	61	53	42	32	26	23	22	21	21	21	23	26	33	34	42	50	54	41.1	66.5
12-Apr-06	62	75	78	85	85	88	87	81	81	73	59	47	65	70	60	62	41	35	41	44	51	53	44	48	63.3	88.3
13-Apr-06	57	61	65	69	72	69	69	59	47	39	35	35	31	28	28	30	32	35	39	44	50	53	55	56	48.4	72.0
14-Apr-06	58	58	59	60	63	63	59	57	52	45	43	69	89	82	65	50	45	38	35	35	47	54	64	67	56.5	89.0
15-Apr-06	66	66	69	73	73	75	75	65	57	49	40	32	30	26	29	51	46	55	65	79	86	85	88	92	61.3	91.7
16-Apr-06	83	80	82	72	70	71	64	66	67	52	40	30	29	27	24	31	25	23	23	29	37	48	59	65	50.0	83.2
17-Apr-06	71	74	79	78	78	78	72	67	56	44	33	29	26	24	24	26	28	29	30	33	39	41	46	48	48.1	79.0
18-Apr-06	54	55	57	56	56	55	51	46	39	30	23	19	16	16	15	17	18	22	25	30	31	34	39	41	35.2	56.6
19-Apr-06	43	42	41	42	43	44	45	41	37	34	31	27	24	21	18	18	18	17	19	22	28	36	42	45	32.3	44.8
20-Apr-06	47	51	55	62	71	77	77	73	62	55	47	42	42	50	52	53	51	50	59	62	66	69	72	79	59.5	79.0
21-Apr-06	87	90	91	93	94	94	95	94	94	93	91	89	88	90	88	86	86	84	85	90	93	94	94	92	90.6	94.6
22-Apr-06	90	88	86	85	83	84	84	81	74	69	62	53	46	41	33	30	30	32	38	42	48	58	59	66	61.0	90.4
23-Apr-06	69	71	73	73	75	74	69	64	60	50	39	28	23	21	19	17	17	18	21	23	25	24	24	26	41.8	74.7
24-Apr-06	31	43	44	51	58	57	57	46	40	33	24	16	14	13	11	10	11	11	12	14	16	19	17	17	27.7	57.7
25-Apr-06	18	21	26	46	47	49	50	43	32	26	18	14	11	10	11	12	12	11	15	21	25	26	28	30	25.2	49.8
26-Apr-06	31	40	45	49	49	55	62	53	41	23	16	18	20	26	27	29	33	34	38	43	50	54	61	63	39.9	62.9
27-Apr-06	63	71	72	70	71	71	62	48	41	34	30	27	24	22	22	22	25	29	32	35	39	45	47	50	43.8	71.7
28-Apr-06	54	56	56	58	59	59	55	42	37	32	32	32	27	22	20	20	21	23	25	28	36	45	50	49	39.1	59.5
29-Apr-06	58	60	54	52	52	46	39	32	30	25	23	23	26	30	32	29	34	37	40	45	45	35	38	46	38.8	59.6
30-Apr-06	47	50	52	51	58	59	53	49	36	26	23	22	20	18	15	16	16	16	17	21	28	30	32	34	32.9	59.4
Hourly Avg	54.9	57.8	60.8	62.2	64.1	65.2	64.9	59.7	53.3	45.8	38.2	34.1	32.7	31.1	29.3	29.8	29.7	30.4	34.4	39.4	43.4	47.0	49.5	51.6		
Hourly Max	95.6	96.5	96.8	95.1	93.9	94.4	94.6	94.3	94.4	93.1	91.1	89.1	89.0	90.0	88.5	86.1	85.8	83.9	84.9	89.9	92.7	93.6	93.8	94.7		

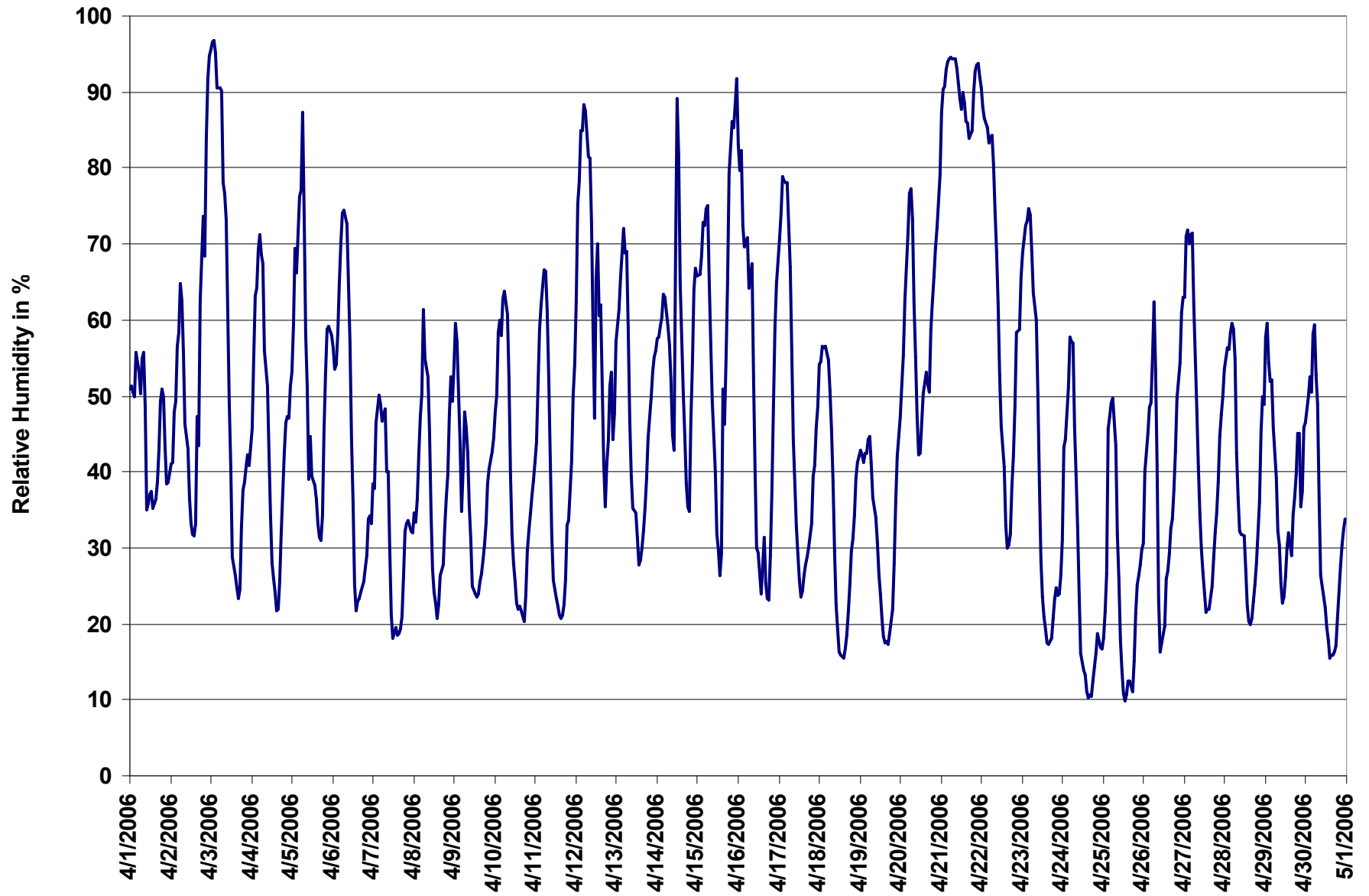


Figure 44. PASZA - Beaverlodge Relative Humidity 1-hr Average Monthly Trend

# PASZA - Beaverlodge - Temperature Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

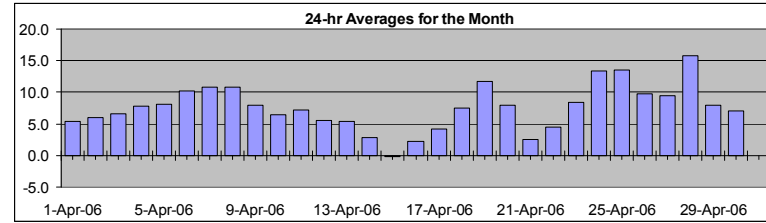
## HOURLY AVERAGE TABLE

## Ambient Temperature (T)

Monitoring Dates: April 1, 2006 to May 1, 2006

### Summary

Maximum 1-hr Average:	23.6	°C	28-Apr	15:00 16:00
Maximum 24-hr Value:	15.7	°C	28-Apr	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	22.6	17.9	11.5	7.2	3.2	-1.1	-4.3	7.6 °C	7.2 °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-Apr-06	4	4	3	3	2	2	2	2	3	4	8	8	9	9	9	9	9	8	6	6	5	5	5	5	5.4	9.4
2-Apr-06	4	4	3	3	2	1	0	2	3	6	7	10	11	13	13	14	10	11	8	6	6	3	2	2	5.9	13.6
3-Apr-06	1	0	0	0	-1	-1	-1	2	2	4	7	10	12	13	14	15	14	14	12	10	9	8	7	7	6.5	14.7
4-Apr-06	5	3	2	1	0	0	0	1	4	6	9	13	14	14	15	15	16	15	13	10	8	8	7	6	7.8	15.7
5-Apr-06	5	4	2	2	0	0	-2	2	6	8	11	10	12	13	14	15	16	15	13	12	10	9	8	8	8.1	15.6
6-Apr-06	8	7	6	6	6	5	5	5	5	7	9	13	16	18	18	17	17	16	15	13	11	9	8	7	10.3	18.2
7-Apr-06	6	6	4	3	3	4	4	5	7	9	12	15	17	17	18	18	18	17	16	13	12	12	12	11	10.8	18.4
8-Apr-06	10	9	8	6	5	4	3	4	5	8	12	15	17	17	19	18	16	16	15	13	12	9	8	8	10.8	18.8
9-Apr-06	7	8	8	7	7	6	5	5	5	7	8	10	11	12	12	11	11	11	10	8	7	6	6	5	8.0	11.9
10-Apr-06	4	3	1	0	1	0	-1	1	4	7	9	10	11	13	13	12	12	13	11	9	7	5	6	5	6.5	12.8
11-Apr-06	4	4	0	-1	-1	-2	-2	0	4	7	10	12	13	13	14	15	14	13	12	10	10	9	8	8	7.3	14.5
12-Apr-06	7	5	4	3	3	2	3	4	4	6	8	10	7	7	9	8	10	8	6	5	3	3	3	3	5.6	10.3
13-Apr-06	1	0	0	-1	-2	-1	-1	2	4	6	8	8	10	12	12	11	11	10	9	8	7	6	5	5	5.4	12.0
14-Apr-06	4	4	4	3	3	3	3	4	5	7	8	2	0	0	2	4	4	4	4	3	1	0	-2	-3	2.9	8.0
15-Apr-06	-3	-3	-4	-5	-5	-5	-5	-1	0	2	4	5	5	6	5	3	3	2	1	-1	-2	-2	-3	-3	-0.2	5.8
16-Apr-06	-3	-4	-5	-4	-5	-5	-4	-2	2	4	6	7	9	9	8	10	9	8	5	4	4	2	1	1	2.2	9.7
17-Apr-06	0	-1	-2	-2	-2	-2	-1	1	4	6	8	8	9	10	10	9	9	9	8	7	5	4	3	2	4.2	9.7
18-Apr-06	1	1	0	0	-1	-1	0	3	5	8	10	12	13	14	15	15	15	15	13	11	10	8	6	6	7.4	15.1
19-Apr-06	6	6	7	6	6	6	6	7	9	10	12	14	16	18	19	19	19	19	17	16	13	11	10	9	11.7	19.3
20-Apr-06	9	8	7	5	5	4	4	5	6	8	10	11	12	11	11	11	12	12	9	8	7	6	6	5	8.0	12.0
21-Apr-06	4	3	2	2	2	2	2	2	1	2	2	3	3	3	3	4	4	5	4	3	2	2	1	2	2.5	4.7
22-Apr-06	1	1	1	1	0	0	0	0	1	2	4	6	7	9	10	11	10	10	9	8	6	4	3	2	4.5	10.7
23-Apr-06	1	0	0	-1	-1	-1	0	2	3	6	9	11	13	15	16	17	17	17	16	15	12	11	11	11	8.4	17.4
24-Apr-06	9	5	4	3	1	1	2	6	8	12	16	19	21	21	23	23	23	23	21	20	16	14	14	14	13.3	23.4
25-Apr-06	13	12	10	4	3	3	3	6	11	14	18	21	22	23	22	21	20	19	18	15	13	12	12	11	13.5	22.6
26-Apr-06	10	7	5	5	4	3	2	5	10	14	15	17	16	15	15	14	13	12	11	10	9	8	6	5	9.7	16.6
27-Apr-06	4	3	3	4	4	4	5	7	9	10	11	12	13	14	15	15	15	14	13	13	11	10	10	10	9.4	14.9
28-Apr-06	10	9	9	9	9	9	10	14	16	17	17	17	19	21	23	24	24	22	21	20	17	15	14	14	15.7	23.6
29-Apr-06	13	12	10	8	8	6	6	7	7	8	9	9	8	9	9	10	9	8	8	7	7	6	4	3	7.9	13.0
30-Apr-06	2	1	0	1	-1	-2	0	3	7	9	10	11	12	13	13	14	14	13	13	12	8	7	6	5	7.1	13.5
Hourly Avg	4.9	4.0	3.0	2.4	1.9	1.5	1.7	3.4	5.3	7.3	9.5	10.9	11.9	12.6	13.3	13.4	13.2	12.7	11.5	9.7	8.1	7.1	6.2	5.7		
Hourly Max	13.2	11.7	9.5	8.8	8.7	9.1	10.4	14.3	15.7	16.7	18.1	20.7	22.5	22.6	23.0	23.6	23.5	22.8	21.4	19.6	16.5	14.6	14.5	14.3		

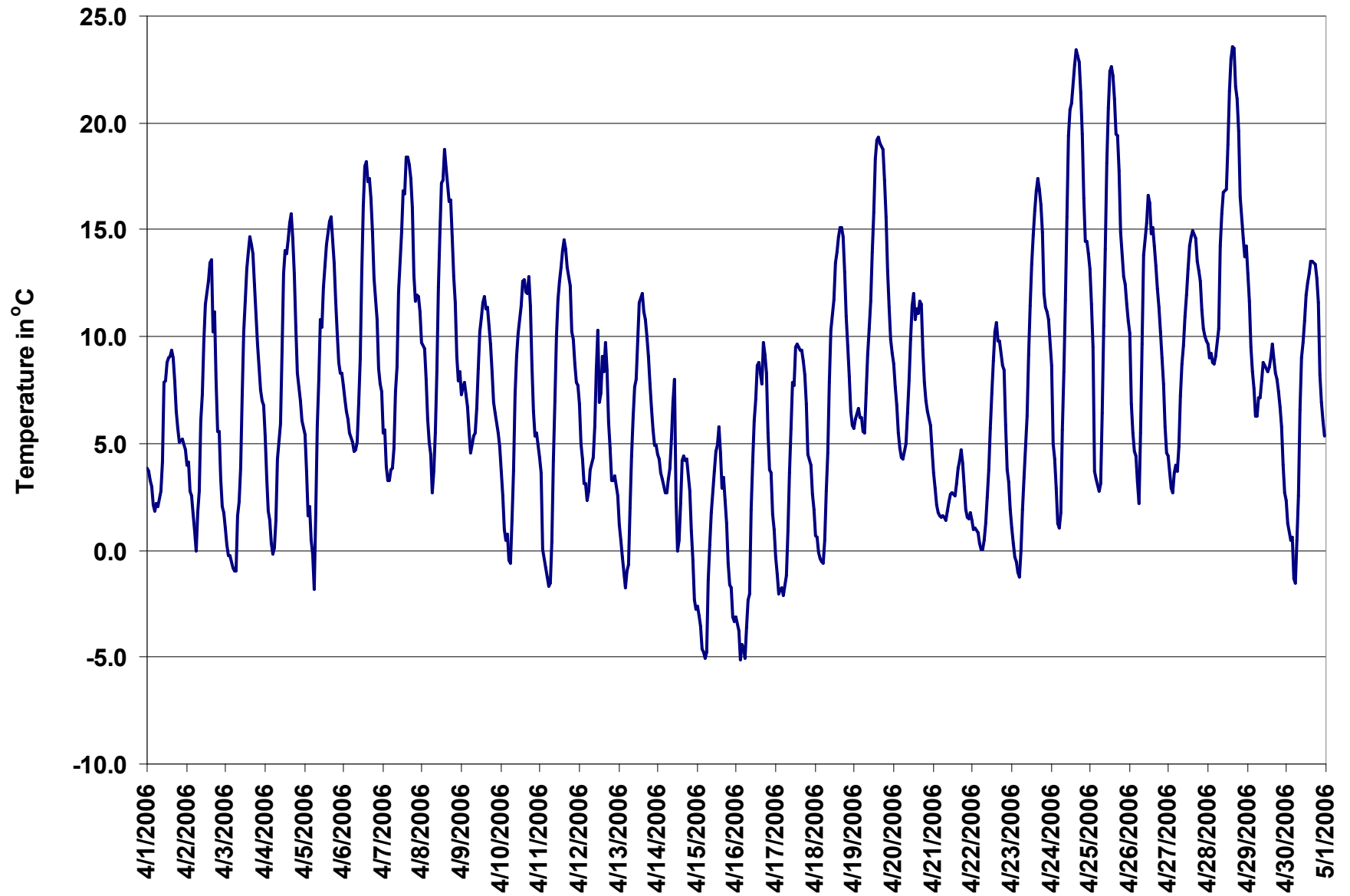


Figure 45. PASZA - Beaverlodge Temperature 1-hr Average Monthly Trend

# PASZA - Beaverlodge - Scalar Wind Speed Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

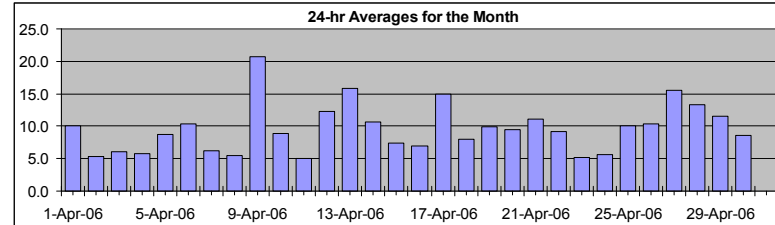
## Wind Speed (WSs)

Monitoring Dates: April 1, 2006 to May 1, 2006

### Summary

Maximum 1-hr Average:	36.5	km/hr	9-Apr	16:00 17:00
Maximum 24-hr Value:	20.7	km/hr	9-Apr	

Calm Time:	1 hrs	0% calms	Operational Time:	719 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	30.9	22.7	13.0	8.1	4.7	2.6	2.0	9.6 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-Apr-06	9	8	8	7	6	7	6	6	4	3	2	8	8	11	10	12	15	17	15	16	16	15	16	14	10.0	17.3	
2-Apr-06	10	8	4	5	4	3	3	1	1	2	4	3	4	3	4	4	9	6	15	13	8	7	3	2	5.3	15.0	
3-Apr-06	5	5	2	2	5	2	2	3	3	3	4	7	10	13	9	11	8	8	9	9	6	5	9	8	6.1	12.9	
4-Apr-06	3	2	3	4	4	4	3	3	3	4	4	4	6	11	11	9	6	7	9	6	6	8	8	8	5.7	10.8	
5-Apr-06	9	5	4	3	2	3	2	3	3	3	5	8	9	10	14	16	17	22	19	12	12	10	10	11	8.8	21.6	
6-Apr-06	14	15	14	15	14	11	7	2	5	3	4	4	4	11	14	16	18	18	17	11	9	9	8	6	10.3	18.5	
7-Apr-06	7	4	3	4	2	4	5	3	4	3	4	4	6	8	7	7	6	5	6	7	8	11	14	16	6.2	16.4	
8-Apr-06	6	9	8	5	5	2	2	3	3	4	3	3	4	6	5	9	12	11	9	6	3	3	5	4	5.4	12.1	
9-Apr-06	7	13	13	12	17	11	15	11	14	18	21	28	32	32	31	35	36	32	28	22	16	19	17	17	20.7	36.5	
10-Apr-06	13	11	6	4	5	3	3	3	5	10	16	15	12	12	12	9	10	14	14	9	9	8	6	4	8.8	16.4	
11-Apr-06	5	5	4	5	3	3	2	2	2	4	5	7	10	8	4	6	6	7	5	5	5	5	6	8	5.0	9.9	
12-Apr-06	6	11	8	6	2	2	4	5	7	5	7	8	16	12	14	9	20	28	28	22	16	14	21	25	12.3	28.5	
13-Apr-06	22	19	17	13	10	11	10	7	15	26	31	22	19	22	25	22	21	18	12	9	10	8	5	4	15.8	30.8	
14-Apr-06	5	7	4	5	6	6	5	5	6	5	7	27	21	17	14	18	16	17	18	14	9	5	3		10.7	27.0	
15-Apr-06	4	6	6	5	7	3	2	3	8	10	12	14	15	6	10	12	9	13	7	10	6	4	2	2	7.4	14.7	
16-Apr-06	2	3	3	3	3	4	2	2	6	4	4	7	10	7	7	14	5	9	9	12	12	16	12	13	7.0	16.2	
17-Apr-06	9	5	3	6	4	6	5	6	8	13	22	26	28	33	32	30	30	26	27	16	10	6	4	4	15.0	32.9	
18-Apr-06	3	3	3	3	5	3	3	4	6	10	10	10	14	14	14	14	15	17	12	10	8	6	5	3	8.0	16.8	
19-Apr-06	3	3	4	5	6	7	5	6	9	10	13	15	11	10	14	12	14	20	20	15	13	9	7	8	10.0	19.6	
20-Apr-06	6	5	6	11	8	6	5	7	6	6	8	8	11	16	14	12	13	13	12	12	7	7	13	14	9.5	16.1	
21-Apr-06	11	11	11	6	7	5	6	9	8	9	11	12	14	15	14	14	15	13	16	14	14	11	11	12	11.2	16.1	
22-Apr-06	12	11	11	14	15	11	9	9	12	12	10	8	9	8	8	8	6	8	7	6	10	5	5	5	9.2	14.8	
23-Apr-06	3	4	4	3	2	2	2	3	4	5	5	6	6	6	6	6	6	8	10	8	7	7	7	4	5.2	9.8	
24-Apr-06	5	5	4	6	3	calm	4	3	3	4	5	4	5	6	5	4	5	6	11	9	6	8	8	8	5.6	10.9	
25-Apr-06	7	5	5	4	3	3	3	4	2	4	5	10	12	14	23	24	24	27	22	15	7	6	6	6	10.1	27.4	
26-Apr-06	7	4	3	4	3	4	4	4	4	6	5	4	11	16	17	20	19	20	19	16	14	18	14	12	10.3	20.3	
27-Apr-06	11	10	8	7	6	10	13	19	20	28	27	25	20	23	20	24	24	23	17	10	8	9	6	6	15.5	27.6	
28-Apr-06	6	2	3	3	3	3	7	12	14	20	17	15	13	13	24	14	12	26	25	21	14	15	16	21	13.3	25.6	
29-Apr-06	21	18	18	15	16	12	11	13	14	11	6	9	13	11	10	6	10	11	9	8	14	11	6	7	11.5	20.6	
30-Apr-06	7	5	5	6	2	3	3	6	8	10	14	12	12	15	14	13	13	13	13	11	8	5	4	4	8.6	15.0	
1-hr Average	7.9	7.4	6.6	6.3	5.9	5.3	5.1	5.5	6.9	8.4	9.7	11.0	12.1	13.0	13.5	13.7	14.1	15.3	14.6	12.0	10.0	9.2	8.7	8.6			
Hourly Max	22.0	18.9	18.0	15.0	17.2	12.3	14.5	18.5	19.9	27.6	30.8	27.9	32.2	32.9	32.3	34.6	36.5	32.1	27.5	22.3	16.4	19.4	21.0	24.5			

# PASZA - Beaverlodge - Vector Wind Speed Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

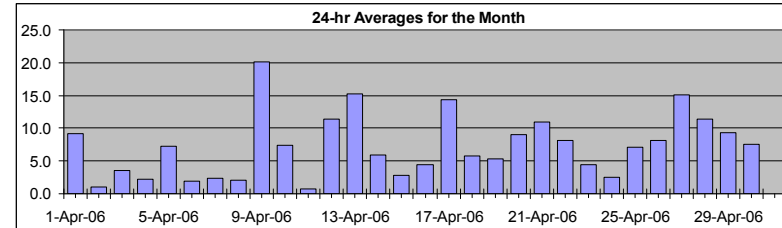
## Wind Speed (WSv)

Monitoring Dates: April 1, 2006 to May 1, 2006

### Summary

Maximum 1-hr Average:	36.3	km/hr	9-Apr	16:00 17:00
Maximum 24-hr Value:	20.2	km/hr	9-Apr	

Calm Time:	5 hrs	1% calms	Operational Time:	715 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	30.7	22.5	12.7	7.5	4.0	1.6	1.1	4.8 km/hr



### Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Apr-06	9	8	8	7	6	7	6	5	2	1	2	7	8	10	10	12	15	17	15	16	16	15	16	14		9.1	17.2	
2-Apr-06	10	7	3	4	2	3	2	1	1	2	3	2	2	3	4	calm	8	2	15	10	5	6	3	2		1.1	14.6	
3-Apr-06	5	4	2	2	4	2	2	2	3	2	3	6	8	12	9	10	7	7	9	9	6	4	9	7		3.5	12.2	
4-Apr-06	2	2	3	4	3	4	2	3	2	4	4	2	4	10	10	8	4	7	9	6	6	8	4	7		2.2	10.3	
5-Apr-06	9	4	4	1	1	2	2	3	2	2	3	7	8	9	14	15	17	21	19	12	12	10	10	11		7.2	21.5	
6-Apr-06	14	15	14	14	14	11	7	2	4	1	3	2	4	8	14	15	18	18	17	11	9	9	8	6		1.9	18.1	
7-Apr-06	7	4	3	3	1	2	5	calm	4	3	3	3	3	7	6	4	5	4	6	7	8	11	14	16		2.4	16.4	
8-Apr-06	3	7	7	3	4	2	2	3	2	1	3	2	2	5	2	8	12	11	9	6	1	2	3	4		2.1	11.7	
9-Apr-06	6	12	13	12	17	10	14	11	13	18	20	27	32	32	31	34	36	32	27	22	16	19	17	17		20.2	36.3	
10-Apr-06	13	11	4	1	3	1	3	2	5	10	15	14	11	11	10	9	9	13	13	9	9	8	6	4		7.4	15.2	
11-Apr-06	5	5	1	4	2	1	2	2	2	3	4	6	8	5	1	4	3	5	4	5	4	3	6	7		0.7	8.1	
12-Apr-06	3	10	7	4	1	2	4	5	7	5	6	8	16	12	13	7	19	28	27	21	16	14	21	24		11.4	28.3	
13-Apr-06	22	19	17	13	10	11	10	6	15	26	31	22	19	22	24	21	21	18	12	9	10	8	4	3		15.2	30.7	
14-Apr-06	5	7	4	4	6	6	5	5	6	4	6	27	21	17	13	18	18	16	17	18	14	8	5	2		5.8	26.7	
15-Apr-06	4	6	6	4	7	2	1	calm	8	10	12	13	14	5	7	4	8	13	5	10	6	4	1	1		2.8	14.3	
16-Apr-06	2	1	1	1	2	4	2	1	6	3	3	6	9	6	6	12	3	8	8	12	12	16	12	13		4.5	16.1	
17-Apr-06	9	4	2	6	4	6	4	6	7	13	21	26	28	33	32	30	30	26	27	16	10	6	4	4		14.4	32.6	
18-Apr-06	2	3	3	2	5	3	2	4	6	9	10	9	12	13	13	13	15	17	12	10	8	5	1	1		5.8	16.7	
19-Apr-06	3	3	4	4	6	6	5	6	9	10	13	14	10	9	13	12	13	19	19	15	13	9	7	8		5.3	19.4	
20-Apr-06	5	4	6	11	8	6	5	6	6	6	7	8	11	16	14	12	12	13	12	12	7	7	13	14		9.1	15.6	
21-Apr-06	11	11	11	6	6	5	6	9	8	9	11	11	14	15	14	14	15	13	16	14	14	11	11	12		10.9	16.0	
22-Apr-06	12	11	11	14	15	11	9	9	11	11	10	8	8	7	7	6	5	8	6	6	10	5	5	3		8.2	14.8	
23-Apr-06	3	4	4	3	2	2	2	3	4	4	5	6	5	5	5	5	5	7	10	8	7	7	7	2		4.5	9.8	
24-Apr-06	5	4	2	6	2	calm	3	calm	3	4	4	3	3	5	2	3	4	6	11	9	6	8	8	8		2.4	10.8	
25-Apr-06	6	4	5	2	2	3	2	2	1	3	4	4	10	12	13	22	24	24	27	22	15	7	6	6		7.2	27.3	
26-Apr-06	7	1	3	2	3	3	3	2	1	3	5	4	2	8	15	16	19	19	20	19	16	14	18	14	12		8.1	20.2
27-Apr-06	11	10	8	7	5	9	13	18	20	27	26	24	19	23	19	24	24	23	17	10	8	9	6	5		15.1	27.4	
28-Apr-06	5	2	3	2	2	2	6	12	14	19	17	15	12	12	23	13	12	25	25	21	14	14	16	21		11.4	25.4	
29-Apr-06	21	17	18	15	15	12	10	12	14	10	4	8	12	10	9	6	9	10	9	8	13	11	5	7		9.3	20.6	
30-Apr-06	7	5	5	5	1	2	2	5	8	9	13	11	10	14	13	13	13	12	13	11	8	5	4	4		7.6	13.7	
1-hr Vector	2.8	2.3	1.3	1.1	0.8	0.4	0.7	1.6	4.2	5.8	6.4	6.6	7.4	8.2	9.6	9.7	9.1	9.7	9.1	6.8	5.2	4.2	2.8	2.6				
Hourly Max	21.9	18.9	17.9	14.9	17.1	12.2	14.5	18.5	19.7	27.4	30.7	26.8	32.0	32.6	32.1	34.4	36.3	31.9	27.4	22.1	16.4	19.3	20.9	24.4				



## PASZA - Beaverlodge - Wind Direction Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	352.4	333.4	280.8	246.6	133.4	67.3	10.0	270 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**

Day	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-Apr-06	102	106	99	88	46	71	63	71	282	329	85	115	107	107	106	91	85	87	74	70	76	90	91	90	87	E	
2-Apr-06	60	108	113	121	126	243	272	72	180	128	142	102	119	108	104	21	192	314	279	202	335	251	194	111	164	SSE	
3-Apr-06	180	186	123	129	205	153	134	66	161	178	205	253	228	296	289	282	283	274	240	264	305	294	340	355	265	W	
4-Apr-06	352	211	68	66	60	69	187	115	161	210	207	99	170	216	214	234	172	123	137	103	94	109	10	355	143	SE	
5-Apr-06	48	342	49	42	163	65	64	58	301	175	153	159	126	124	117	107	100	84	84	95	125	125	116	109	102	ESE	
6-Apr-06	112	114	113	108	107	114	111	113	311	240	209	172	109	286	300	279	280	280	285	286	289	298	299	274	266	W	
7-Apr-06	276	272	135	161	115	62	58	343	289	192	170	176	196	214	264	234	175	73	114	82	67	98	100	107	129	SE	
8-Apr-06	68	123	106	169	320	29	201	187	107	255	129	116	137	193	260	243	241	231	237	279	4	291	115	217	206	SSW	
9-Apr-06	280	297	299	288	282	285	277	266	267	254	244	267	279	275	268	258	259	259	272	280	291	292	286	283	273	W	
10-Apr-06	281	278	269	66	267	105	98	147	209	261	284	285	280	270	301	289	284	279	256	271	282	296	315	306	279	W	
11-Apr-06	313	331	204	59	108	10	104	96	165	195	262	282	306	300	143	137	222	320	304	41	183	193	107	137	257	WSW	
12-Apr-06	264	310	342	352	74	217	274	273	232	253	268	274	292	274	287	294	271	280	268	270	261	253	269	263	275	W	
13-Apr-06	262	266	265	264	260	260	247	223	247	262	272	261	247	252	239	247	263	253	269	259	227	234	204	175	255	WSW	
14-Apr-06	150	156	160	145	115	103	108	124	132	134	318	315	319	313	311	289	286	263	264	281	281	258	239	233	283	WNW	
15-Apr-06	314	307	308	251	258	196	115	16	254	247	261	251	234	277	280	328	92	150	122	10	44	75	209	91	267	W	
16-Apr-06	116	169	159	113	72	71	72	220	213	202	170	169	167	163	196	224	280	259	250	265	272	273	255	257	231	SW	
17-Apr-06	256	245	196	239	225	239	249	235	226	238	254	270	266	273	273	272	271	271	264	271	278	255	205	201	262	W	
18-Apr-06	188	118	129	127	100	90	117	178	198	194	209	230	239	247	254	262	249	267	270	276	272	274	207	139	238	WSW	
19-Apr-06	102	118	111	113	125	114	120	137	163	166	173	166	192	184	237	242	237	261	273	279	286	289	285	273	221	SW	
20-Apr-06	301	358	6	16	17	360	352	344	26	8	343	326	323	341	353	344	356	334	338	333	339	334	331	331	345	NNW	
21-Apr-06	341	337	332	341	314	326	312	334	318	331	336	345	336	329	316	307	314	310	307	313	314	318	323	326	323	323	NW
22-Apr-06	324	323	325	324	326	317	308	312	306	319	324	334	314	328	315	276	263	288	274	249	269	257	259	202	306	NW	
23-Apr-06	161	152	129	132	152	106	118	191	186	185	176	170	161	151	174	168	142	137	123	110	96	91	92	108	139	SE	
24-Apr-06	326	2	331	333	15	158	67	121	198	213	222	219	184	163	231	124	90	119	113	104	92	109	101	106	116	ESE	
25-Apr-06	118	209	202	125	155	94	84	136	190	221	215	258	269	283	267	286	282	275	269	282	319	336	341	346	274	W	
26-Apr-06	349	254	244	30	73	259	75	85	4	338	0	85	273	270	274	270	279	278	273	265	269	269	279	282	280	W	
27-Apr-06	275	280	274	292	282	297	296	289	289	280	282	278	285	288	273	274	278	287	284	274	246	232	245	257	279	W	
28-Apr-06	246	189	207	153	112	113	240	252	249	243	218	213	210	205	251	275	259	253	262	271	294	294	288	281	253	WSW	
29-Apr-06	290	309	323	328	291	276	281	289	290	291	268	234	222	181	227	230	219	235	235	232	266	287	270	262	272	W	
30-Apr-06	283	259	289	273	127	134	127	215	266	283	275	273	262	256	253	259	262	278	278	289	299	294	313	350	271	W	
Hourly Avg	296	285	307	353	311	334	285	266	256	255	256	260	259	265	266	268	265	269	269	279	288	277	288	282			

## PASZA - Beaverlodge - Standard Deviation of Wind Direction Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: April 1, 2006 to May 1, 2006

**Summary**


Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%
Percentile	99	95	75	50
	58.3	46.8	24.2	12.3
			6.1	3.2
				2.2

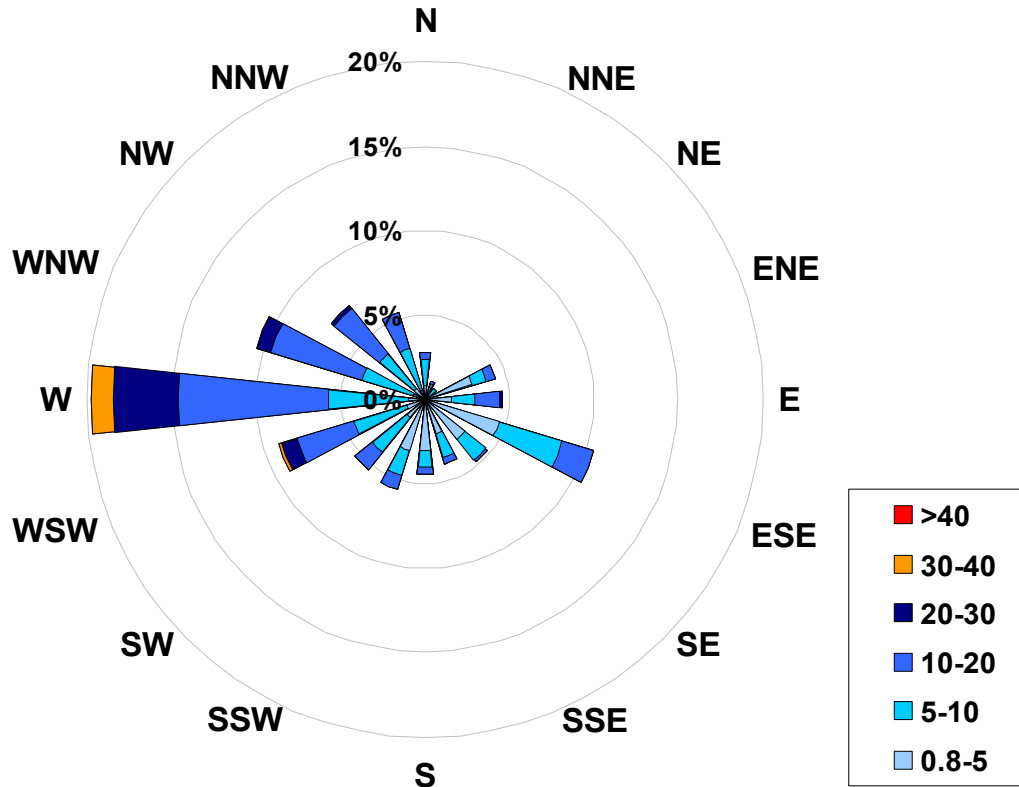
**Status Flag Characters**

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																								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-Apr-06	4	3	4	5	9	4	7	10	25	39	33	16	13	14	13	11	7	4	4	3	3	3	3	4	39.1
2-Apr-06	13	14	49	6	20	13	44	57	49	47	21	58	47	32	29	50	32	36	10	18	32	15	11	12	58.2
3-Apr-06	7	8	20	17	12	11	14	37	21	40	26	22	28	16	15	23	31	16	3	3	10	13	6	4	39.6
4-Apr-06	51	26	7	9	24	30	18	20	23	16	31	42	38	25	19	24	45	15	4	4	9	3	13	14	50.5
5-Apr-06	5	31	28	28	34	43	40	47	54	39	28	15	12	13	8	11	8	5	3	4	3	5	3	3	53.9
6-Apr-06	2	2	3	2	3	4	7	18	14	36	27	62	29	38	13	13	8	9	5	3	3	5	4	7	61.6
7-Apr-06	5	12	24	17	29	50	14	35	12	17	24	34	62	28	42	52	39	35	10	8	3	3	2	3	62.4
8-Apr-06	54	44	7	21	20	38	38	18	44	39	24	38	49	43	64	22	12	8	6	12	47	64	29	8	64.2
9-Apr-06	13	4	5	5	3	6	5	11	5	8	8	13	6	7	6	6	6	5	5	6	3	3	3	2	13.2
10-Apr-06	3	2	34	44	46	28	21	25	15	14	13	19	18	29	25	10	18	15	12	3	4	3	5	9	46.2
11-Apr-06	8	13	31	29	25	58	16	15	21	35	31	35	55	47	71	57	47	22	27	20	43	28	7	23	71.3
12-Apr-06	32	8	10	22	33	32	14	9	7	14	11	18	10	11	11	15	14	5	4	4	2	2	3	3	33.3
13-Apr-06	3	2	2	3	5	4	4	14	8	8	5	8	12	10	9	8	6	5	10	6	4	7	30	12	30.4
14-Apr-06	12	4	8	17	7	8	12	9	9	14	44	5	5	6	8	7	6	6	5	4	4	10	20	23	43.6
15-Apr-06	39	6	7	19	12	33	37	41	11	11	13	14	14	28	31	25	14	11	24	10	8	12	15	36	41.0
16-Apr-06	17	51	36	44	29	9	28	35	10	27	33	28	25	29	32	24	57	23	13	6	9	4	2	4	56.8
17-Apr-06	4	19	25	12	11	8	15	11	12	16	14	5	6	6	6	7	8	6	4	5	5	9	16	10	24.9
18-Apr-06	24	12	7	13	9	23	18	17	10	12	19	22	22	19	19	15	13	8	8	5	5	39	49	57	56.8
19-Apr-06	28	11	12	16	6	6	6	8	6	6	5	17	21	35	21	15	19	16	5	3	3	6	12	12	35.0
20-Apr-06	11	16	6	7	9	8	8	9	11	22	21	34	15	11	10	12	12	10	7	5	9	10	6	4	34.1
21-Apr-06	5	6	6	8	6	14	7	7	7	7	7	8	7	6	5	6	5	7	5	5	5	5	5	4	14.2
22-Apr-06	4	4	4	4	5	5	7	7	9	12	17	21	20	37	34	23	32	30	14	14	5	12	10	26	37.3
23-Apr-06	20	13	12	14	18	28	14	17	19	26	28	30	32	54	44	46	47	20	7	4	3	3	5	33	54.4
24-Apr-06	28	45	50	11	42	23	9	25	26	20	20	35	64	49	75	42	38	45	6	4	5	4	4	3	75.1
25-Apr-06	29	29	16	21	18	34	41	42	44	22	31	23	27	18	11	11	7	5	5	4	7	8	4	7	43.6
26-Apr-06	5	44	40	44	8	29	21	34	22	24	49	52	22	17	12	9	8	7	5	4	4	3	8	8	52.2
27-Apr-06	12	4	5	5	20	6	2	4	7	7	7	9	16	10	14	9	10	5	6	4	8	5	32	16	31.9
28-Apr-06	7	17	7	18	14	17	19	5	9	12	9	7	19	24	12	17	23	6	4	10	5	4	4	4	23.7
29-Apr-06	3	5	4	6	6	4	10	5	8	16	32	18	17	25	20	36	11	9	5	8	3	3	15	13	36.3
30-Apr-06	9	14	43	24	50	18	15	15	12	17	21	24	34	21	16	16	16	12	10	4	3	6	13	14	49.6

Hourly Max	54	51	50	44	50	58	44	57	54	47	49	62	64	54	75	57	57	45	27	20	47	64	49	57
------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

**1-hr Average Wind Rose (in km/hr) Located at the Beaverlodge Site for April 2006**



**Calms: 0%**

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	200
5	to	10	239
10	to	20	226
20	to	30	44
30	to	40	10
	>	40	0
Total Non-Zero Values			719

# PASZA

## Monthly Passive Data Summary

**Table 1. PASZA Passive Stations for April 2006**  
**Peace Airshed Zone Association - PASZA Passive Stations for April 2006**

PASZA					
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
<b>Duplicates</b>					
7a	Steepprock Creek	0.1	38.6	0.6	
7b	Steepprock Creek	0.2	37.3	0.5	
12a	Hythe	0.3	33.4	1.3	
12b	Hythe	0.2	32.4	1.5	
16a	Beaverlodge	0.3	37.6	1.8	
16b	Beaverlodge	0.3	40.9	2.0	
49a	Grande Prairie HP	0.3	32.7	8.6	
49b	Grande Prairie HP	0.3	31.9	8.2	
1	Silver Valley	0.4	34.9	1.0	08-27-081-11 W6M
2	Bay Tree	0.2	42.6	0.3	13-16-078-13 W6M
3	Forth Creek	0.3	40.3	0.7	04-13-082-07 W6M
4	Gordondale	0.4	43.5	0.9	04-34-078-10 W6M
5	Boone Creek	0.3	32.8	1.0	01-23-076-11 W6M
7	Steepprock Creek	0.2	37.9	0.6	09-35-072-13 W6M
9	Spirit River	0.4	35.9	1.3	08-12-079-07 W6M
10	Woking	0.4	36.2	1.0	01-13-076-07 W6M
11	Webber Creek	0.3	38.0	1.3	09-36-074-09 W6M
12	Hythe	0.2	32.9	1.4	14-36-072-11 W6M
14	Sylvester	0.3	28.8	0.6	08-06-069-12 W6M
16	Beaverlodge	0.3	39.2	1.9	15-36-071-10 W6M
17	Poplar	0.3	33.8	1.1	13-06-073-08 W6M
18	Saddle Hills	0.4	37.1	1.0	04-25-074-07 W6M
19	Wanham	0.4	38.9	0.8	16-22-077-03 W6M
20	Shaftesbury	0.2	34.9	0.7	04-03-082-23 W5M

**Table 1. PASZA Passive Stations for April 2006 (Continued)**

<b>Station Number</b>	<b>Station Name</b>	<b>SO2 ppb</b>	<b>O3 ppb</b>	<b>NO2 ppb</b>	<b>Site Legal</b>
21	Eaglesham	0.2	36.8	0.7	16-21-079-25 W5M
23	Bear Lake	0.2	32.3	1.9	15-31-072-06 W6M
24	Wembley	0.1	34.8	2.2	12-31-070-08 W6M
25	Pinto Creek	0.2	33.7	0.9	04-24-069-11 W6M
26	Flyingshot	0.2	32.3	1.9	15-36-070-07 W6M
27	Grande Prairie I	0.3	32.6	7.7	08-15-071-06 W6M
28	Clairmont Lake	0.3	36.3	1.5	09-06-073-04 W6M
29	Smoky Heights	0.4	37.7	1.1	04-06-075-02 W6M
30	Fitzsimmons	0.3	33.0	1.2	15-36-072-03 W6M
32	Gold Creek	1.0	31.0	2.5	06-33-067-05 W6M
33	Wapiti	0.3	36.3	1.3	02-25-071-03 W6M
34	Puskwaskau	0.3	30.9	0.3	15-35-074-25 W5M
35	Jean Cote	0.2	35.9	1.0	12-35-079-21 W5M
36	Guy	0.3	36.0	0.8	03-04-076-22 W5M
37	Crooked Creek	0.3	36.1	1.3	16-01-071-26 W5M
38	Karr Creek	0.2	29.8	0.5	10-16-065-02 W6M
39	Clouston Creek	0.3	33.2	0.9	12-01-073-22 W5M
40	McLennan	0.3	33.2	1.4	03-29-077-19 W5M
41	Valleyview	0.4	39.1	1.0	09-30-069-22 W5M
42	Sunset House	0.5	43.5	0.6	05-32-070-19 W5M
43	High Prairie	0.2	38.9	1.3	16-13-074-17 W5M
44	Peavine	0.2	43.3	0.3	03-05-079-15 W5M
45	Gift Lake	0.2	30.7	1.4	10-07-079-12 W5M
46	Little Smoky	0.4	29.4	3.9	12-01-065-21 W5M
47	Kinuso	0.3	33.5	1.0	12-10-073-10 W5M
48	Deer Mountain	0.3	31.8	0.6	15-22-068-09 W5M
49	Grande Prairie HP	0.3	32.3	8.4	17-26-071-06 W6M

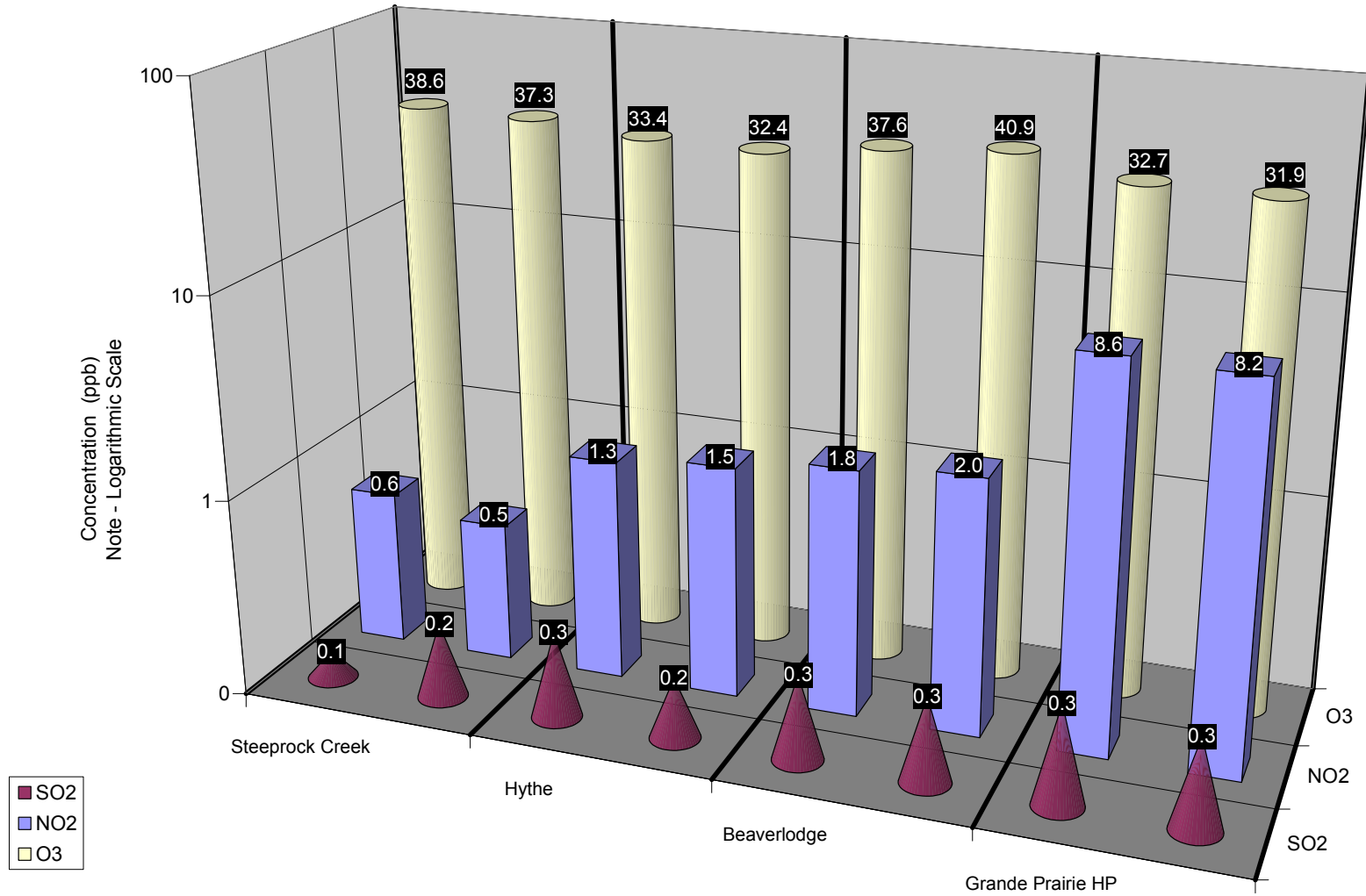


Figure 46. Duplicate Summary Chart

**Table 2. Passive Summary Results for April 2006**

Stats	Sulphur Dioxide	Ozone	Nitrogen Dioxide
	SO <sub>2</sub>	O <sub>3</sub>	NO <sub>2</sub>
	ppb	ppb	ppb
<b>Passive Summary for April 2006 (PASZA Zone)</b>			
Mean	0.3	35.4	1.5
Standard Deviation	0.1	3.8	1.6
Minimum	0.1	28.8	0.3
	Wembley (#24)	Sylvester (#14)	Puskwaskau (#34)
Maximum	1.0	43.5	8.4
	Gold Creek (#32)	Gordondale (#4)	Grande Prairie HP (#49)
<b>Comparison between Continuous and Passive monitoring at Beaverlodge (passive #16 Beaverlodge)</b>			
	SO <sub>2</sub>	O <sub>3</sub>	NO <sub>2</sub>
AENV Beaverlodge station	0.3	43.1	2.5
PASZA Beaverlodge passive	0.3	39.2	1.9
<b>Comparison between Continuous and Passive monitoring at Henry Pirker (passive #49 Grande Prairie HP)</b>			
	SO <sub>2</sub>	O <sub>3</sub>	NO <sub>2</sub>
PASZA Henry Pirker station	0.4	33.0	9.7
PASZA Grande Prairie passive	0.3	32.3	8.4



PASZA Passive SO<sub>2</sub> Stations - April 2006  
Average Concentrations in ppb

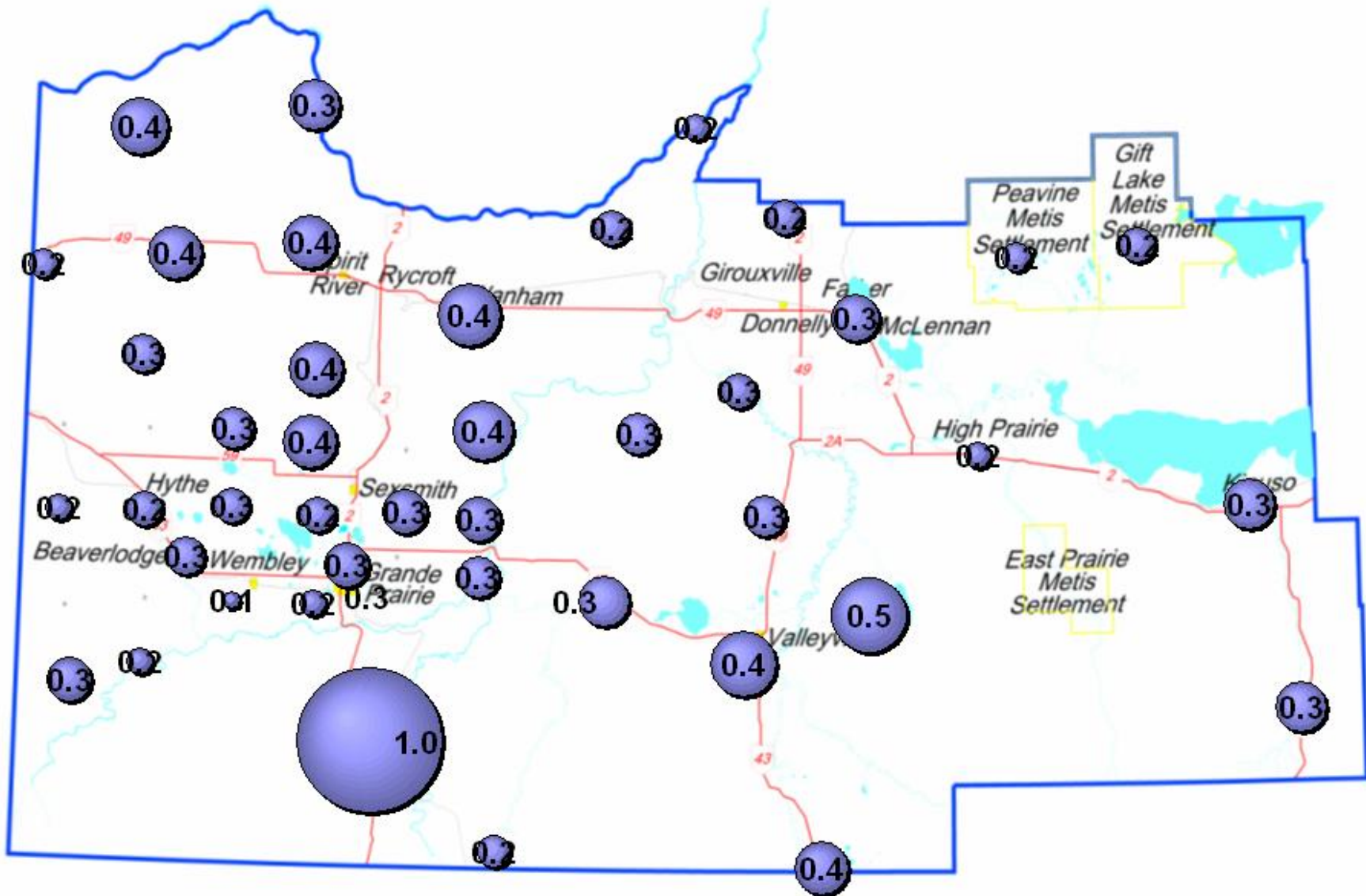
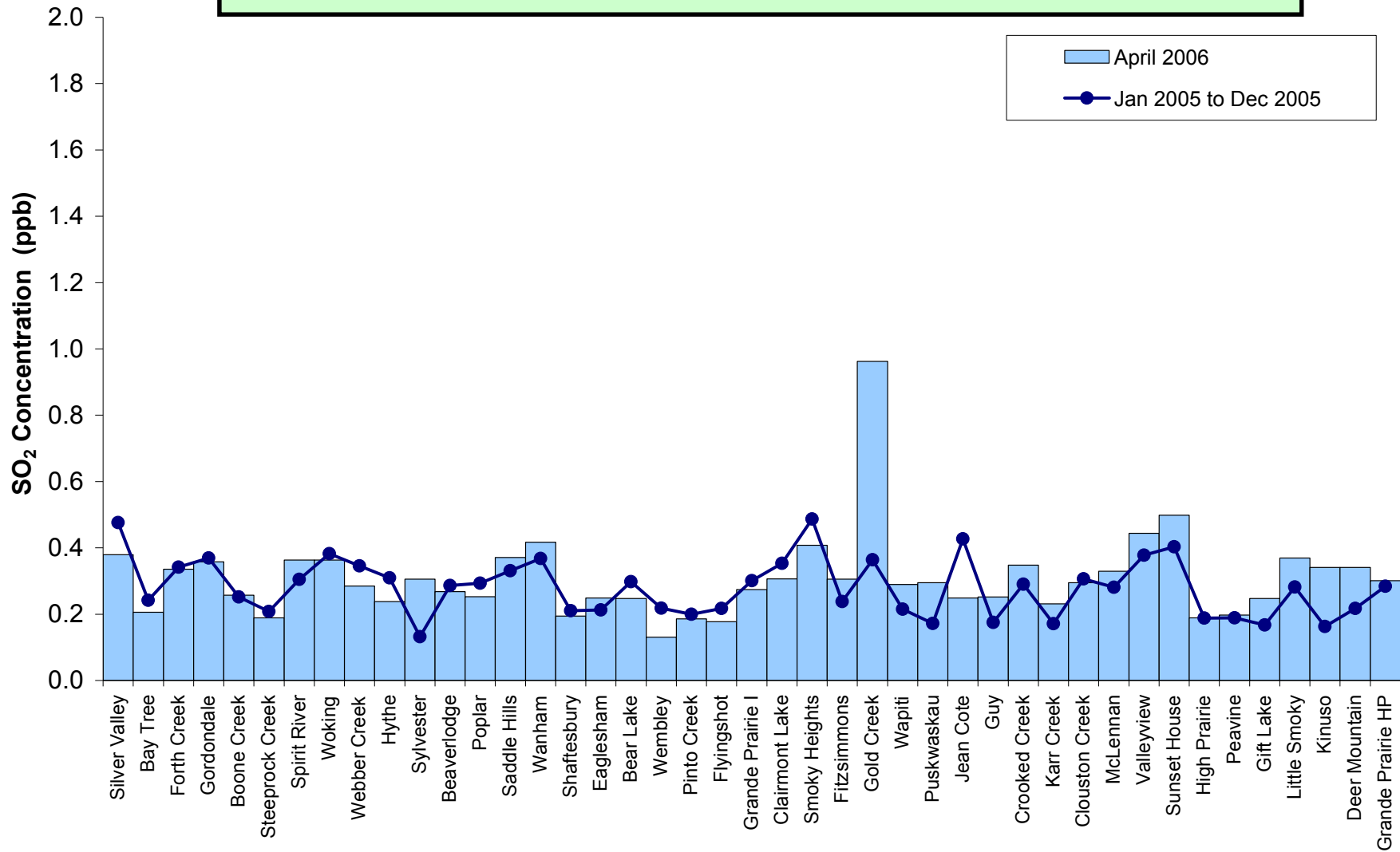


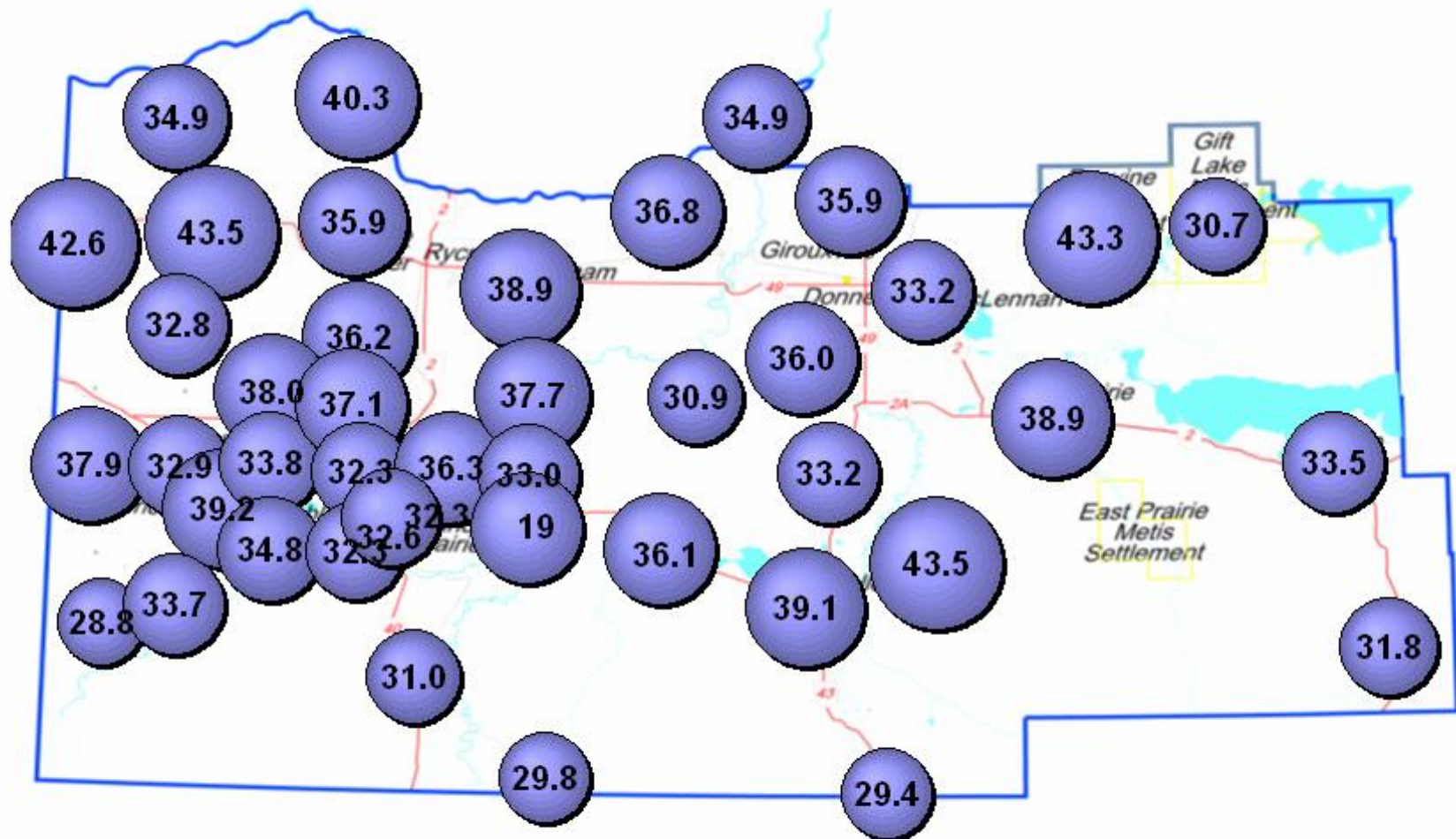
Figure 47. SO<sub>2</sub> Bubble Chart

**Alberta Ambient Air Quality Guidelines - Annual SO<sub>2</sub> Guideline is 11 ppb**



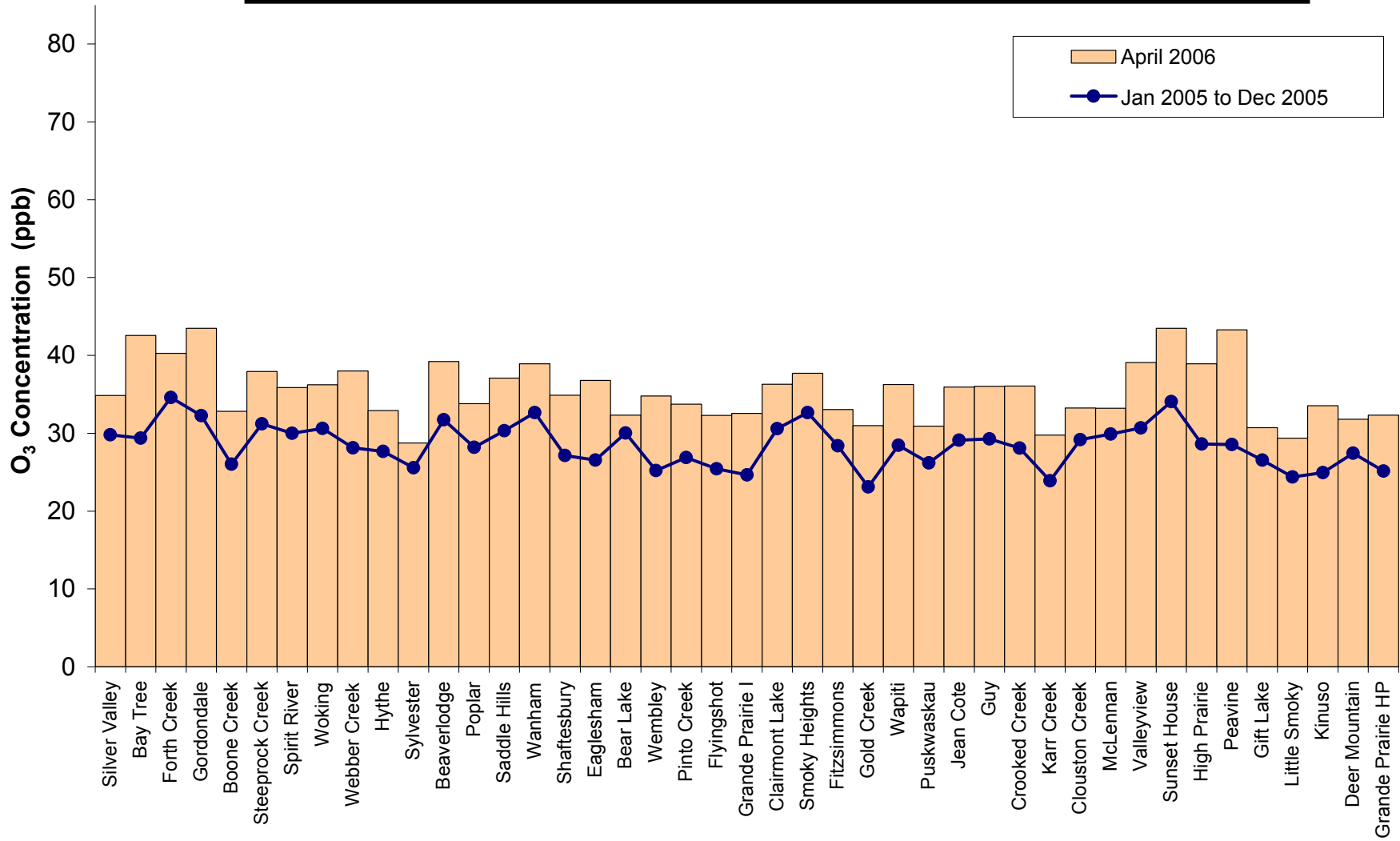
**Figure 48. SO<sub>2</sub> Summary Chart**

**PASZA Passive O<sub>3</sub> Stations - April 2006**  
**Average Concentrations in ppb**



**Figure 49. O<sub>3</sub> Bubble Chart**

**Alberta Ambient Air Quality Guidelines - No Annual O<sub>3</sub> Guideline**



**Figure 50. O<sub>3</sub> Summary Chart**

**PASZA Passive NO<sub>2</sub> Stations - April 2006**  
**Average Concentrations in ppb**

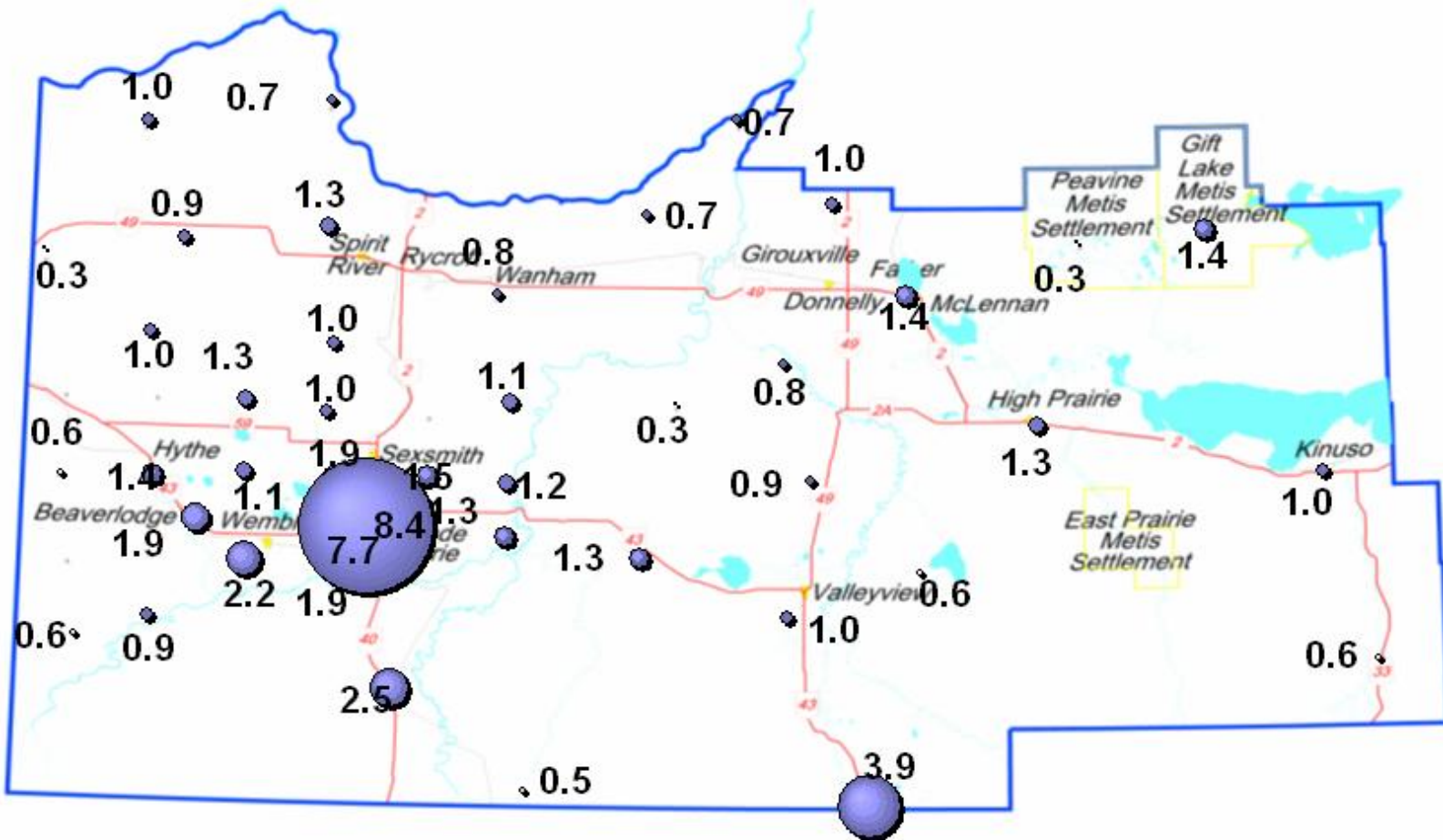
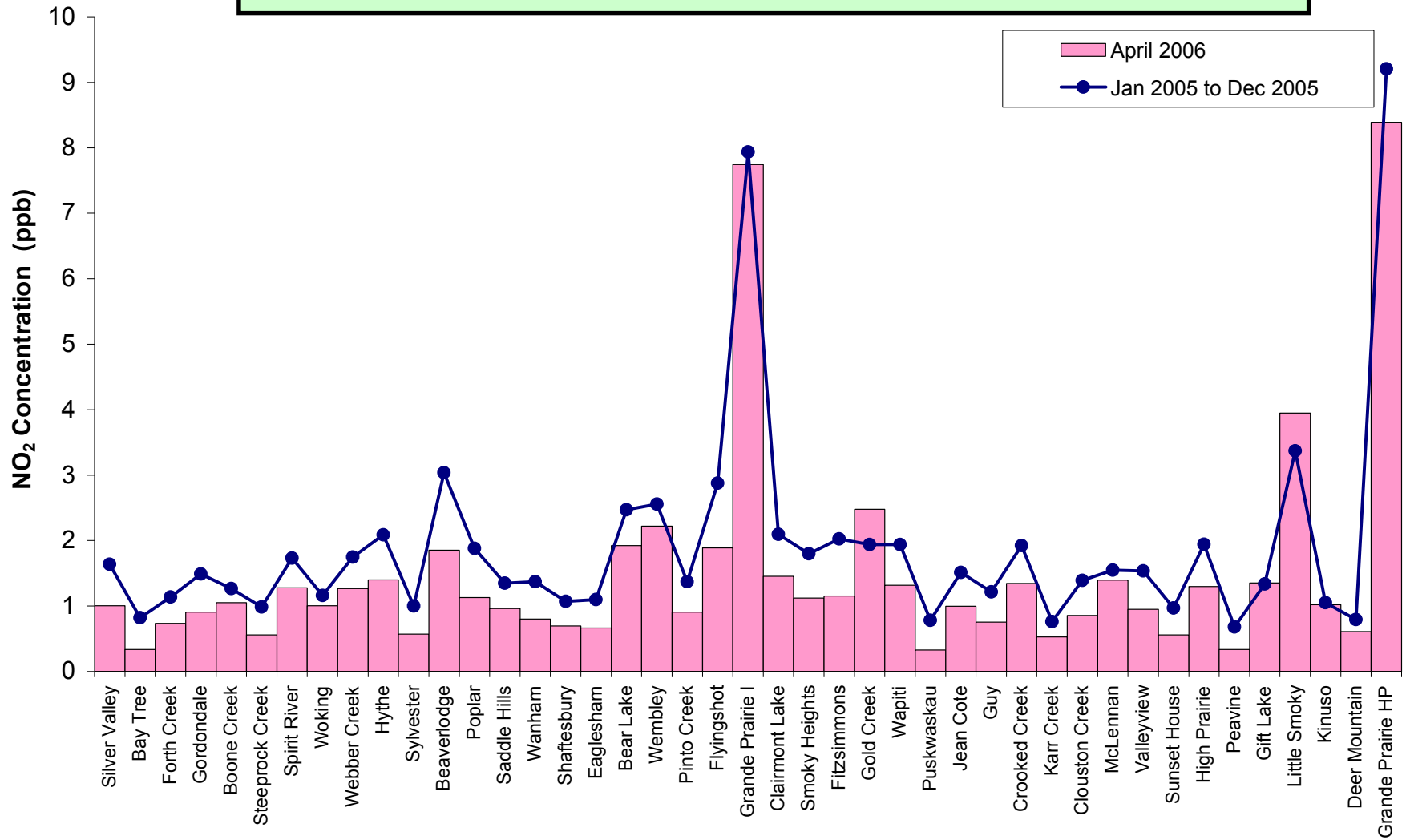


Figure 51. NO<sub>2</sub> Bubble Chart



**Alberta Ambient Air Quality Guidelines - Annual NO<sub>2</sub> Guideline is 32 ppb**



**Figure 52. NO<sub>2</sub> Summary Chart**

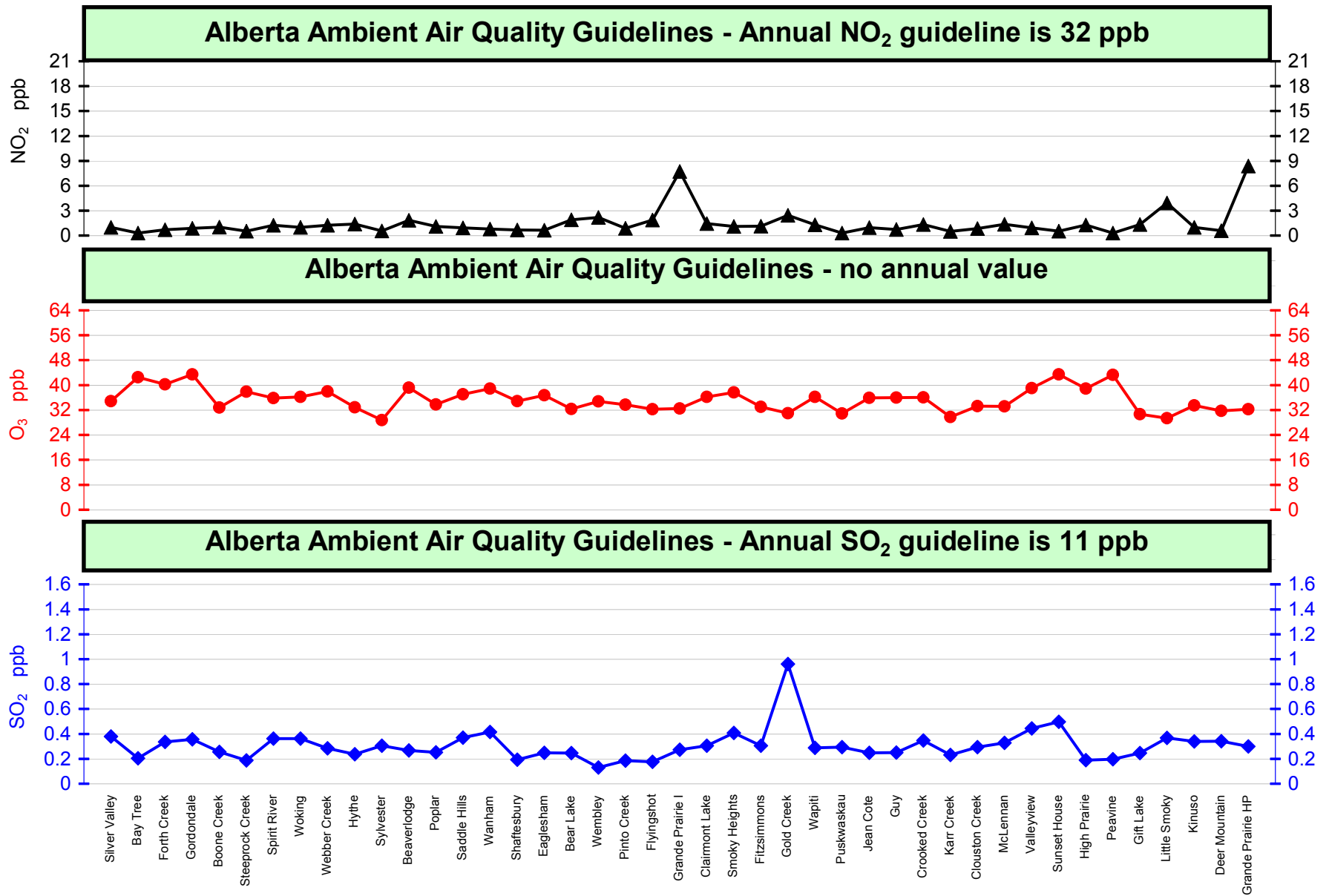


Figure 53. Overview Summary

## **April 2006 Calibration Reports**

**PASZA - Henry Pirker Station with the following calibrations:**

**SO<sub>2</sub>, NO, NO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, CO, THC, TRS, PM<sub>2.5</sub>**

**PASZA – Evergreen Park Station with the following calibrations:**

**SO<sub>2</sub>, TRS, PM<sub>2.5</sub>**

**PASZA – Smoky Heights Station with the following calibrations:**

**SO<sub>2</sub>, TRS, PM<sub>2.5</sub>**

**PASZA – Beaverlodge Station with the following calibrations:**

**SO<sub>2</sub>, NO, NO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, PM<sub>2.5</sub>**



**Calibration Report**Parameter SO<sub>2</sub>Air Monitoring Network PASZA**Station Information**

Calibration Date	April 18, 2006	Previous Calibration	March 15, 2006
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:20	End Time (MST)	15:00
Barometric Pressure	27.7 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	2,097 ng/min	Perm-tube Expiry Date	
Correction factor	0.942621	Perm-tube Cert #	19-9955
DACS make	Focus AP1000	DACS serial No.	45266
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
Calculated slope	0.999259	Calculated slope	0.995944
Calculated intercept	0.079305	Calculated intercept	-0.139673
Analyzer make	TEI Model 43A	Analyzer serial #	43A-21120-195

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
SO <sub>2</sub> zero pot	167		167	
SO <sub>2</sub> span pot	216		252	
UV Lamp voltage	951	V	948	V
Vacuum	17.2	" Hg	17.2	" Hg
Sample Flow	420	ccm	420	ccm

**Calibration Data**

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	2356.6	0.0	0.1	N/A
2500	2356.6	339.7	341.0	0.9962
4975	4689.5	170.7	172.1	0.9915
9000	8483.6	94.3	94.5	0.9981
zero	2356.6	0.0	0.1	As Found Zero
2500	2356.6	339.7	335.6	As Found Span
Average Correction Factor				0.9953

Calculated value of As Found Response: 335.392 ppm Percent Change of As Found: 1.3%

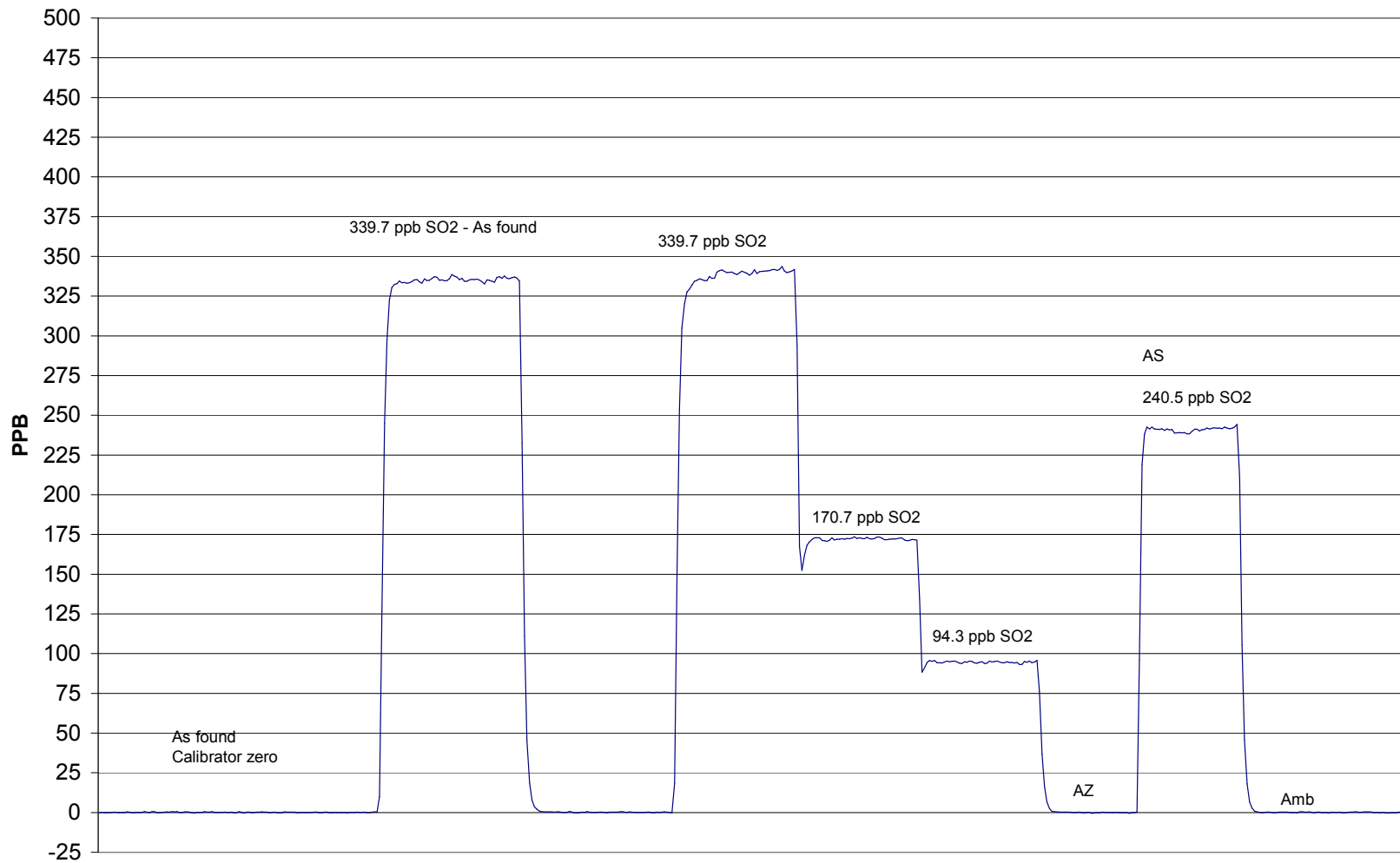
	before calibration		after calibration	
Auto zero	0.3	ppm	-0.1	ppm
Auto span	342.8	ppm	240.5	ppm

Notes: \_\_\_\_\_

Calibration Performed By: Dawn Ewan



### SO2 Calibration



April 18, 2006

# Calibration Report

Parameter **NOx-NO-NO<sub>2</sub>**  
 Air Monitoring Network **PASZA**



## Station Information

Calibration Date	<u>April 13, 2006</u>	Previous Calibration	<u>March 3, 2006</u>
Station Number	<u>1</u>	Station Location	<u>Muskoseepi Park</u>

Reason:  Routine     Installation     Removal    Other: \_\_\_\_\_

Start Time (MST)	<u>8:40</u>	End Time (MST)	<u>15:10</u>
Barometric Pressure	<u>0.910</u> Atm	Station Temperature	<u>20.0</u> Deg C
Calibrator	<u>EnviroNics 6103</u>	Serial Number	<u>2977</u>
NO Cal Gas Conc	<u>50.3</u> ppm	Cal Gas Expiry Date	<u>22-Nov-06</u>
NOx Cal Gas Conc	<u>50.5</u> ppm	Cal Gas Serial #	<u>BAL786</u>

## DACS Information

DACS make FOCUS AP1000      DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	Data Slope	1.004919	1.002648	1.006581
	Data Offset	-1.110727	0.507850	0.402622
After	Data Slope	1.004199	0.997680	0.996419
	Data Offset	-1.413853	-2.034960	-1.630104
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	8.5	ppb	8.8	mV
NOx background	9.5	ppb	9.1	mV
NO coefficient	0.890		0.913	
NOx coefficient	0.99		0.976	
Chamber Temp	50.0	Deg C	50.1	Deg C
Cooler Temp	-2.5	Deg C	-2.5	Deg C
Converter Temp	318.0	Deg C	318.0	Deg C
Vacuum	196.9	mm Hg	207.5	mm Hg

Notes: Adjusted zero and span

# Calibration Report

Parameter **NO<sub>x</sub>-NO-NO<sub>2</sub>**  
 Air Monitoring Network **PASZA**



## Station Information

Calibration Date: April 13, 2006 Station Location: Muskosepi Park

## Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO <sub>x</sub> conc (ppb)	Calculated NO conc (ppb)	Calculated NO <sub>2</sub> conc (ppb)	Indicated NO <sub>x</sub> conc (ppb)	Indicated NO conc (ppb)	Indicated NO <sub>2</sub> conc (ppb)	NO <sub>x</sub> Correction factor	NO Correction factor	
zero	4992	0.00	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	
1	4992	39.88	400.2	398.7	1.6	402.7	401.4	1.3	0.9940	0.9931	
2	4992	19.91	200.6	199.8	0.8	202.7	201.5	1.3	0.9897	0.9919	
3	4992	9.50	95.9	95.5	0.4	101.2	100.2	1.1	0.9479	0.9537	
AFZ	4992	0.00	0.0	0.0	0.0	-0.5	0.0	-0.6	0.0000	0.0000	
AFS	4992	39.88	400.2	398.7	1.6	396.8	395.9	1.0	1.0087	1.0070	
									Average Correction Factor	0.9772	0.9796

As Found Concentrations: NO<sub>x</sub>= 397.8 NO= 396.2 As Found Percent Change NO<sub>x</sub>= -0.6% NO= -0.6%

## GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

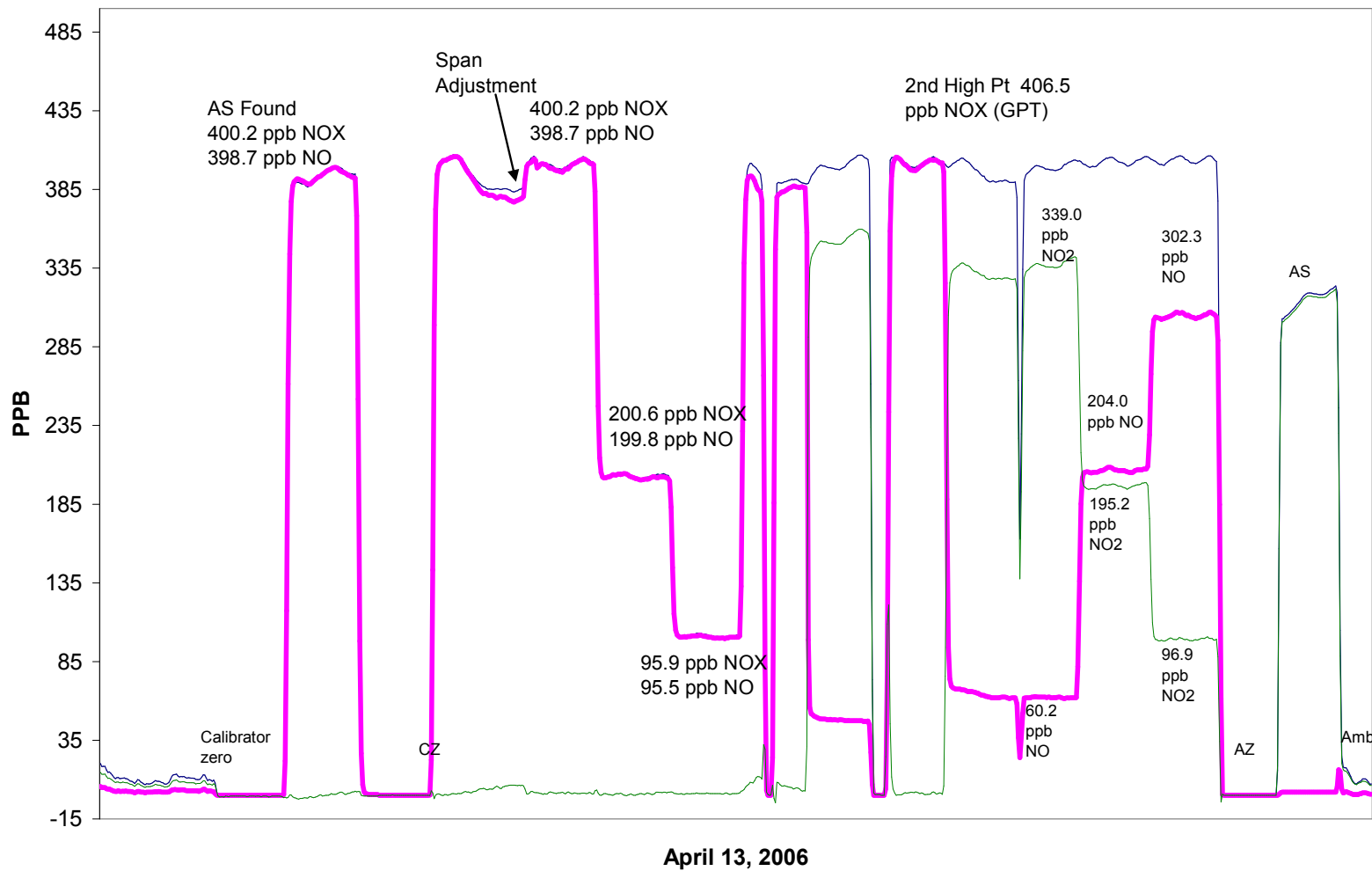
O3 Setpoint (ppb)	Calculated NO <sub>x</sub> conc (ppb)	Calculated NO conc (ppb)	Calculated NO <sub>2</sub> conc (ppb)	Indicated NO <sub>x</sub> conc (ppb)	Indicated NO conc (ppb)	Indicated NO <sub>2</sub> conc (ppb)	NO <sub>x</sub> Correction factor	NO Correction factor	NO <sub>2</sub> Correction factor	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	399.2	397.7	1.5	402.1	400.7	1.4	0.9927	0.9924	N/A	N/A	
350	399.2	60.2	339.0	399.7	62.0	338.0	0.9986	0.9701	1.0029	99.7%	
200	399.2	204.0	195.2	402.8	206.4	196.7	0.9911	0.9885	0.9920	100.8%	
100	399.2	302.3	96.9	403.9	305.0	99.3	0.9882	0.9911	0.9760	102.5%	
							Average Correction Factor	0.9926	0.9832	0.9903	101.0%

## AIC Data

Parameter	Previous calibration				Current calibration			
	NO <sub>x</sub>	NO <sub>2</sub>	NO		NO <sub>x</sub>	NO <sub>2</sub>	NO	
Auto zero	0.8	1.4	1.0	ppb	1.0	1.0	1.0	ppb
Auto span	319.9	317.1	2.4	ppb	316.2	317.0	0.4	ppb

Calibration Performed By: Dawn Ewan

### NOx Calibration



## Calibration Summary

Parameter                     NO<sub>2</sub>  
 Air Monitoring Network                     PASZA

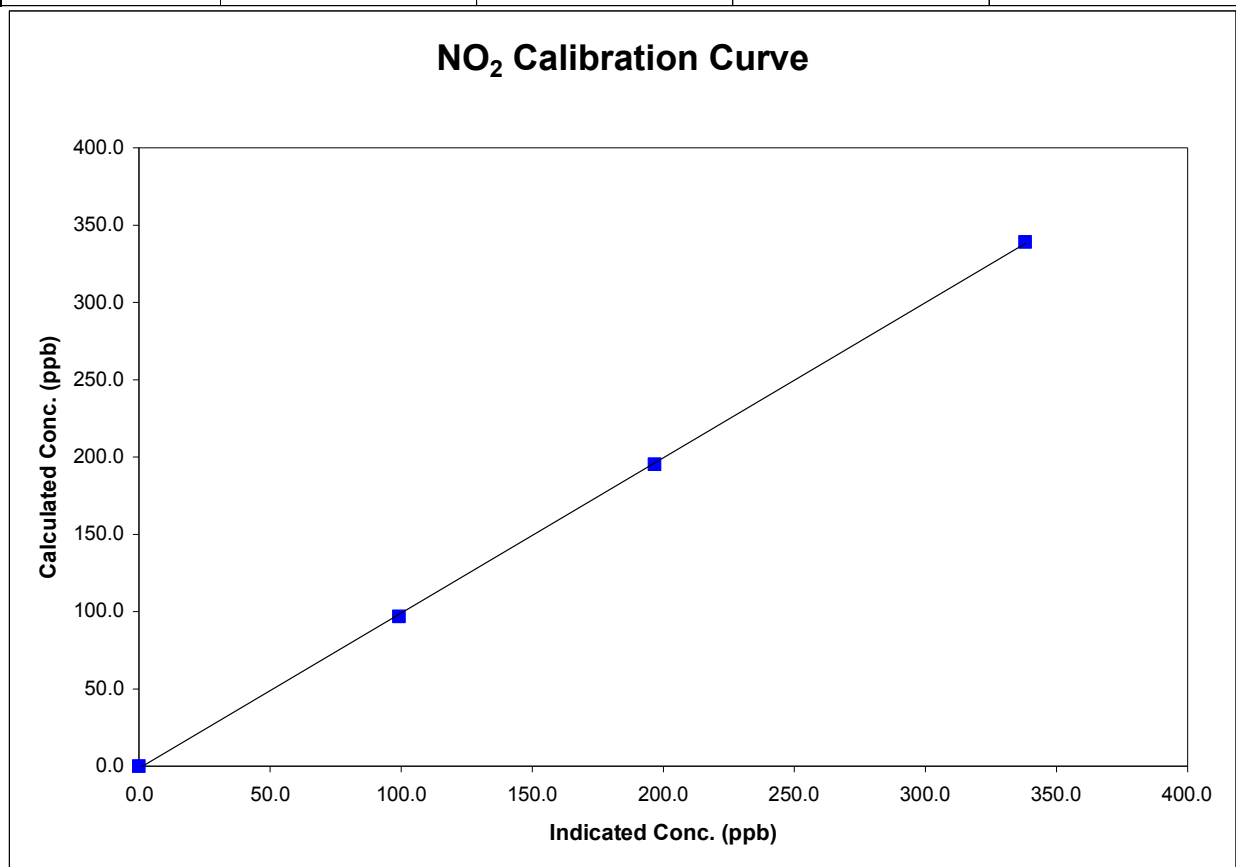


### Station Information

Calibration Date	April 13, 2006	Previous Calibration	March 3, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	8:40	End Time (MST)	15:10
Analyzer make	Teco 42C	Analyzer serial #	508011073

### Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	0.0000		
339.0	338.0	1.0029	Correlation Coefficient	0.999909
195.2	196.7	0.9920		
96.9	99.3	0.9760	Slope	1.004199
			Intercept	-1.413853



## Calibration Summary

Parameter NO<sub>x</sub>  
 Air Monitoring Network PASZA

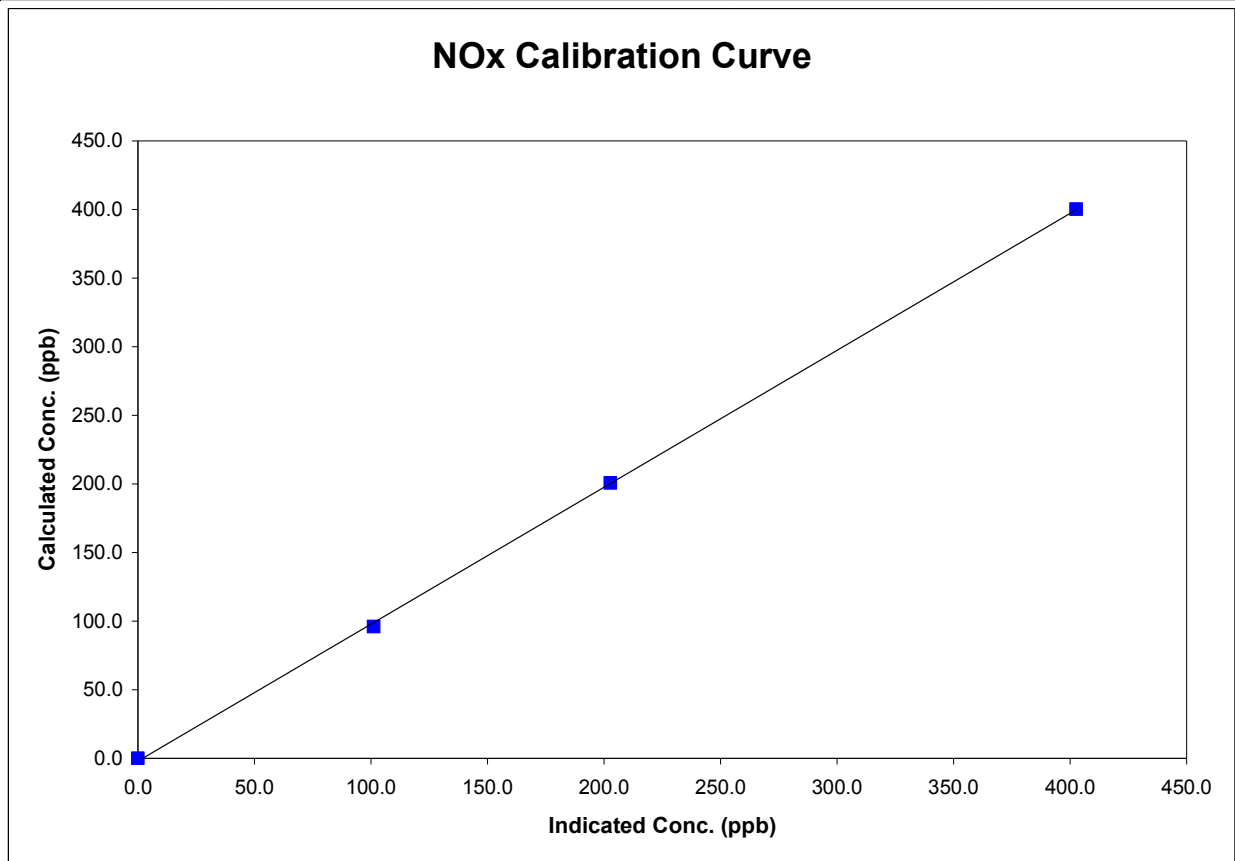


### Station Information

Calibration Date	April 13, 2006	Previous Calibration	March 3, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	8:40	End Time (MST)	15:10
Analyzer make	Teco 42C	Analyzer serial #	508011073

### Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	0.0000		
400.2	402.7	0.9940	Correlation Coefficient	0.999846
200.6	202.7	0.9897		
95.9	101.2	0.9479	Slope	0.997680
			Intercept	-2.034960





## Calibration Summary

Parameter NO  
 Air Monitoring Network PASZA

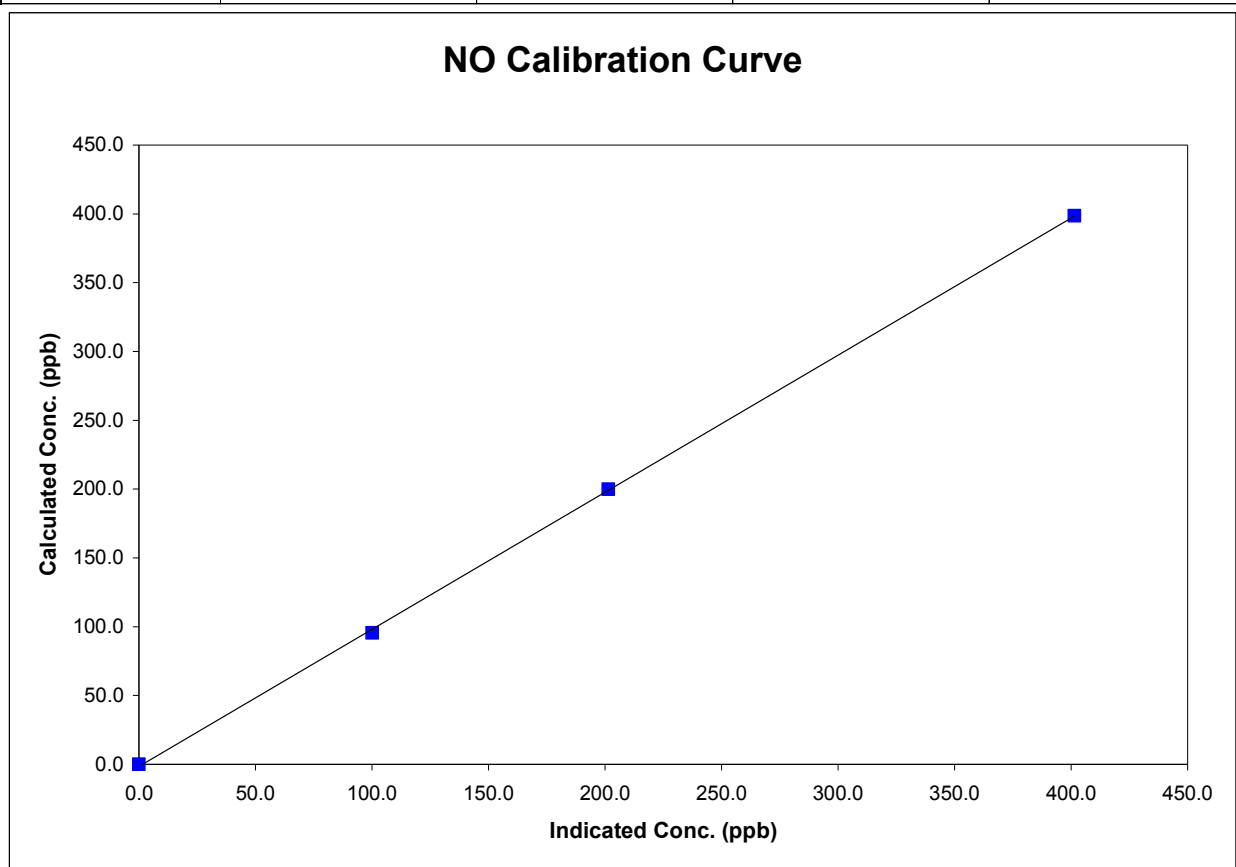


### Station Information

Calibration Date	April 13, 2006	Previous Calibration	March 3, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	8:40	End Time (MST)	15:10
Analyzer make	Teco 42C	Analyzer serial #	508011073

### Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A	Correlation Coefficient	0.999882
398.7	401.4	0.9931		
199.8	201.5	0.9919		
95.5	100.2	0.9537	Slope	0.996419
			Intercept	-1.630104





## Calibration Summary

Parameter                     O3                      
 Air Monitoring Network   PASZA  



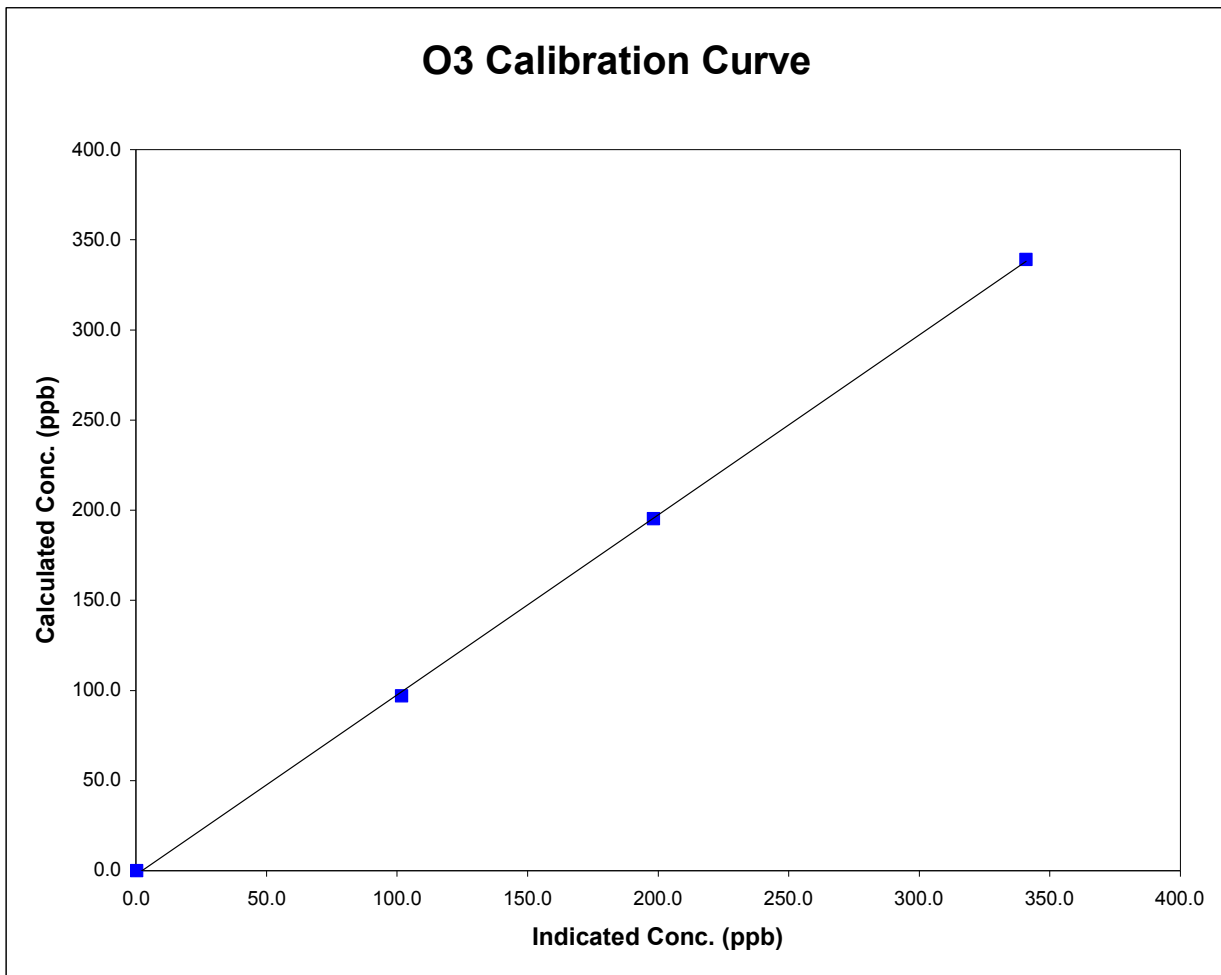
### Station Information

Calibration Date	April 18, 2006	Previous Calibration	March 10, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	9:05	End Time (MST)	11:55
Analyzer make/model	API Model 400	Analyzer serial #	383

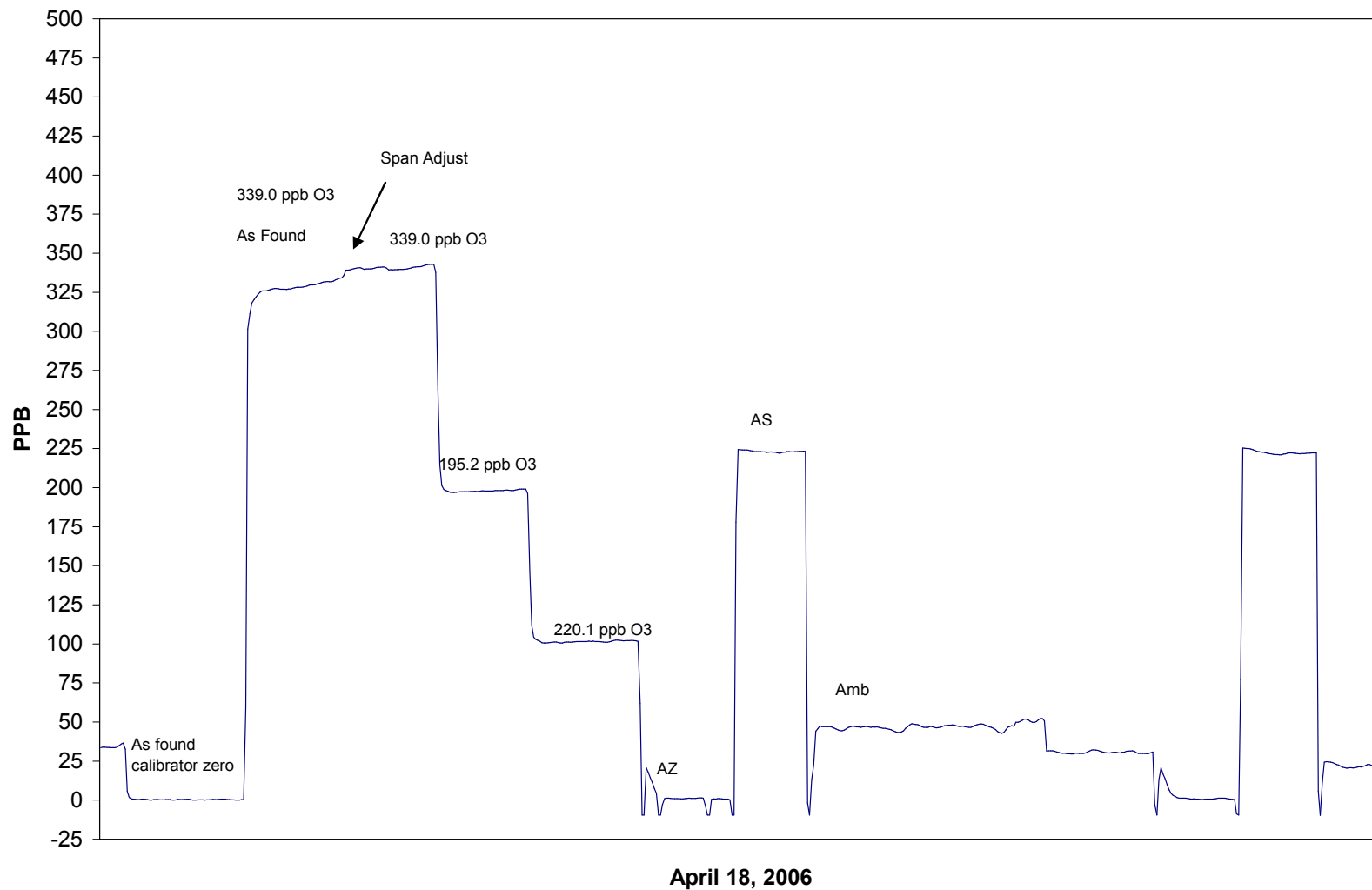
### Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	NA		
339.0	340.9	0.9945	Correlation Coefficient	0.999826
195.2	198.3	0.9845		
96.9	101.8	0.9520	Slope	0.998106
			Intercept	-2.232910

**O3 Calibration Curve**



### O3 Calibration



# Calibration Report



Parameter CO

Air Monitoring Network PASZA

## Station Information

Calibration Date	April 7, 2006	Previous Calibration	March 1, 2006
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:55	End Time (MST)	13:20
Barometric Pressure	0.925 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2977
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	1.005774	Calculated slope	1.001682
Calculated intercept	0.085119	Calculated intercept	-0.022686
Analyzer make	TEI Model 48C	Analyzer serial #	508011062

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
CO span setting	4.734		5.398	
CO zero setting	1.042		1.042	
Sample pressure	694.7	mm Hg	682.6	mm Hg
Sample Flow	1.086	LPM	1.079	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)
4994	0.00	0.00	0.02	N/A
4994	39.94	23.80	23.83	0.9989
4994	19.91	11.91	11.79	1.0105
4994	9.50	5.70	5.79	0.9835
4994	0.00	0.00	0.72	As Found Zero
4994	39.94	23.80	25.31	As Found Span
Average Correction Factor				0.9977

Calculated value of As Found Response: 24.825 ppm      Percent Change of As Found: -4.3%

	before calibration		after calibration	
Auto zero	0.31	ppm	-0.12	ppm
Auto span	21.27	ppm	20.51	ppm

Notes: Adjusted zero

---



---

Calibration Performed By: Dawn Ewan

**Calibration Summary**

Parameter                         CO                        

Air Monitoring Network   PASZA  

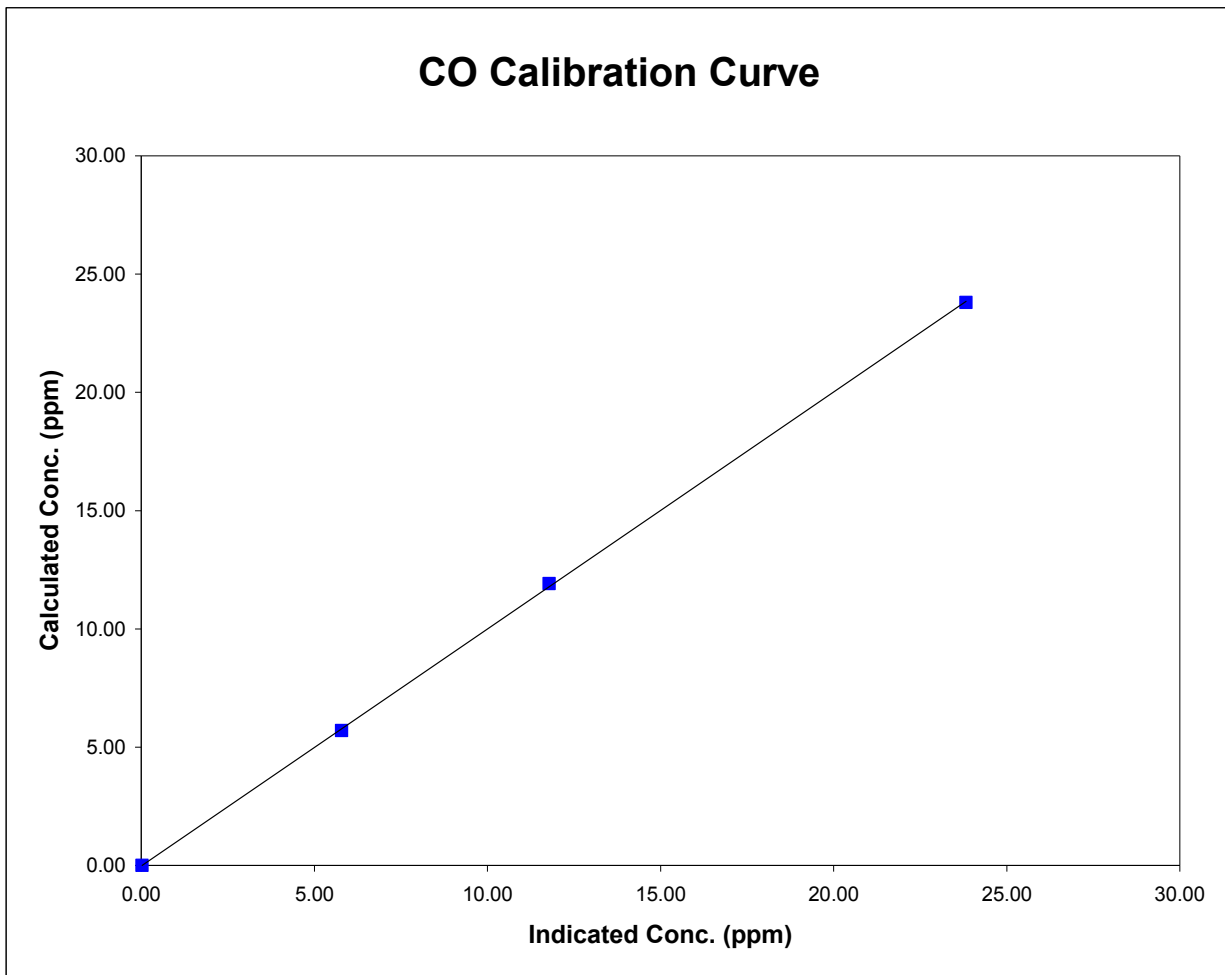


**Station Information**

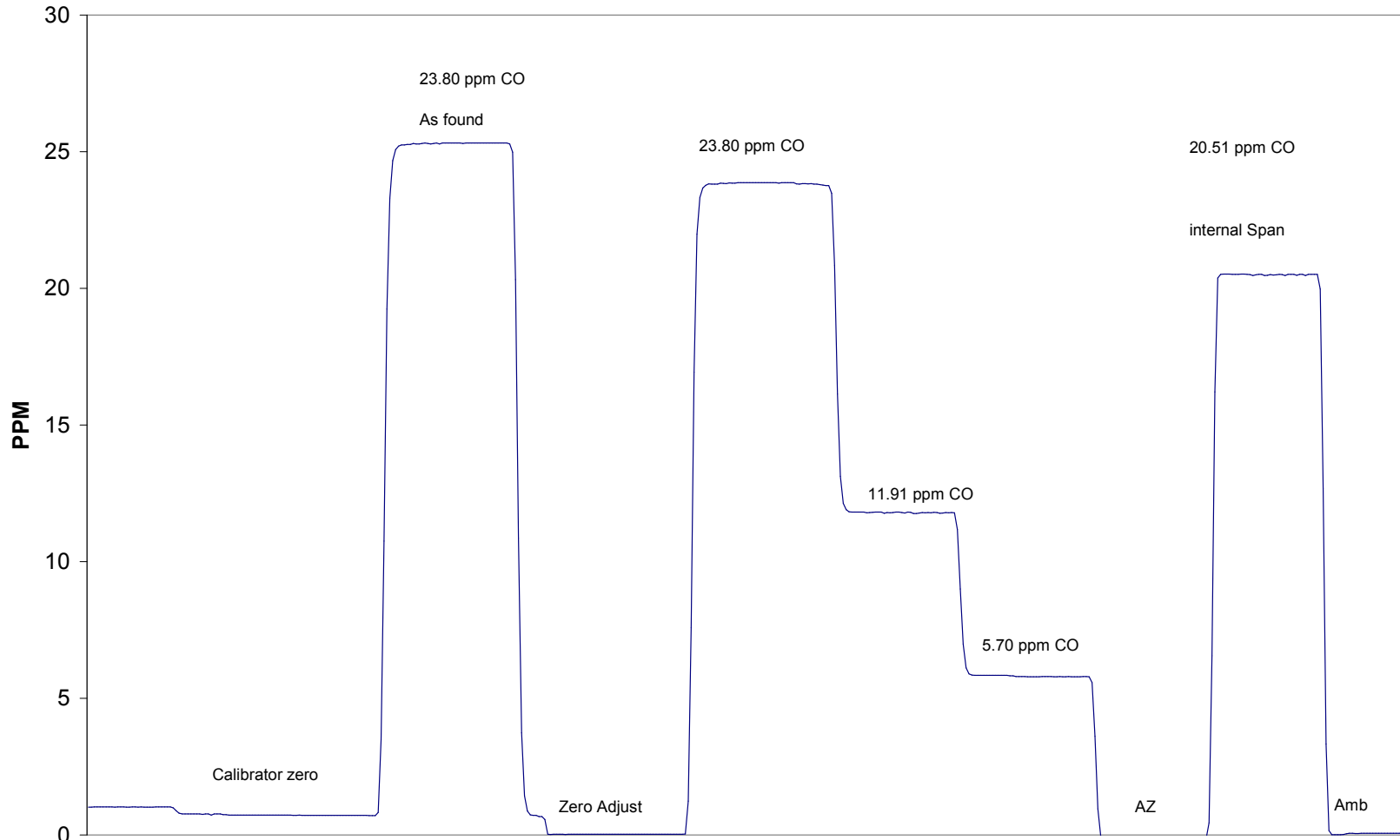
Calibration Date	<u>                        April 7, 2006                        </u>	Previous Calibration	<u>                        March 1, 2006                        </u>
Station Number	<u>                        1                        </u>	Station Location	<u>                        Muskoseepi Park                        </u>
Start Time (MST)	<u>                        9:55                        </u>	End Time (MST)	<u>                        13:20                        </u>
Analyzer make/model	<u>                        TEI Model 48C                        </u>	Analyzer serial #	<u>                        508011062                        </u>

**Calibration Data**

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.024	N/A		
23.802	23.828	0.9989	Correlation Coefficient	0.999921
11.913	11.789	1.0105		
5.696	5.792	0.9835	Slope	1.001682
			Intercept	-0.022686



### CO Calibration



April 7, 2006

# Calibration Report



Parameter THC  
 Air Monitoring Network PASZA

### Station Information

Calibration Date	April 18, 2006	Previous Calibration	March 27, 2006
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:15	End Time (MST)	13:55
Barometric Pressure	0.926 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2977
Cal Gas Concentration	700 ppm CH4/ 299 ppm C3H8	Cal Gas Expiry Date	12/10/2005
Cal Gas CH4 equiv	1522.25 ppm	Cal Gas Cylinder #	ALM 030358
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.001143	Calculated slope	1.009974
Calculated intercept	0.002285	Calculated intercept	-0.136352
Analyzer make	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
THC sample pressure	6.1	psi	6.1	psi
THC span counts	6975	capture	6943	capture
THC zero counts	1336	capture	1336	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)
4992	0.00	0.00	0.12	N/A
4992	64.92	19.54	19.49	1.0025
4992	34.95	10.58	10.59	0.9994
4992	9.92	3.02	3.15	0.9581
4992	0.00	0.00	0.12	As Found Zero
4992	64.92	19.54	19.40	As Found Span
Average Correction Factor				0.9867

Calculated value of As Found Response: 19.302 ppm      Percent Change of As Found: 1.2%

	before calibration		after calibration	
Auto zero	0.04	ppm	-0.02	ppm
Auto span	22.09	ppm	22.33	ppm

Notes: Adjusted span.  
 \_\_\_\_\_  
 \_\_\_\_\_

Calibration Performed By: Dawn Ewan



## Calibration Summary

Parameter THC  
 Air Monitoring Network PASZA

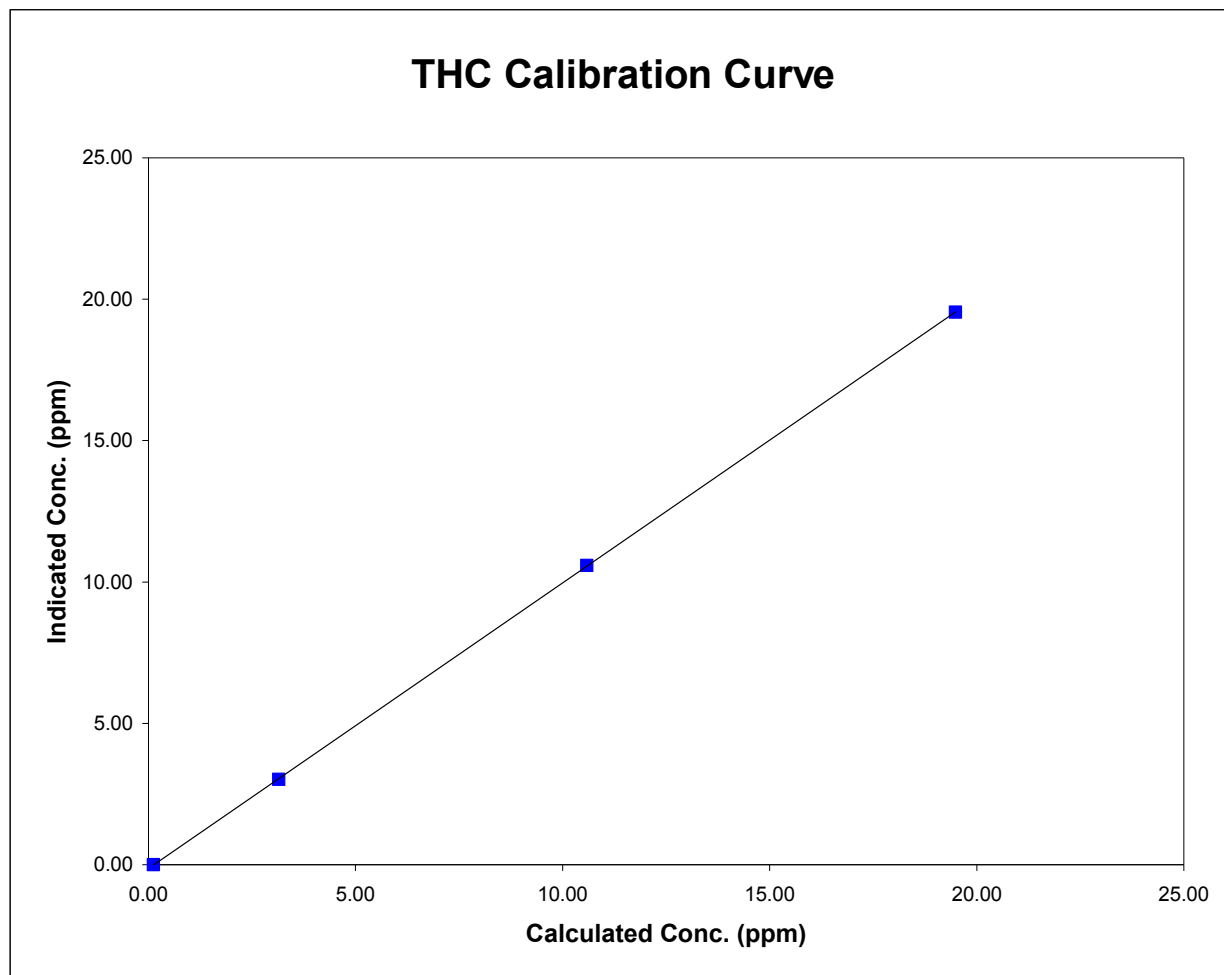


### Station Information

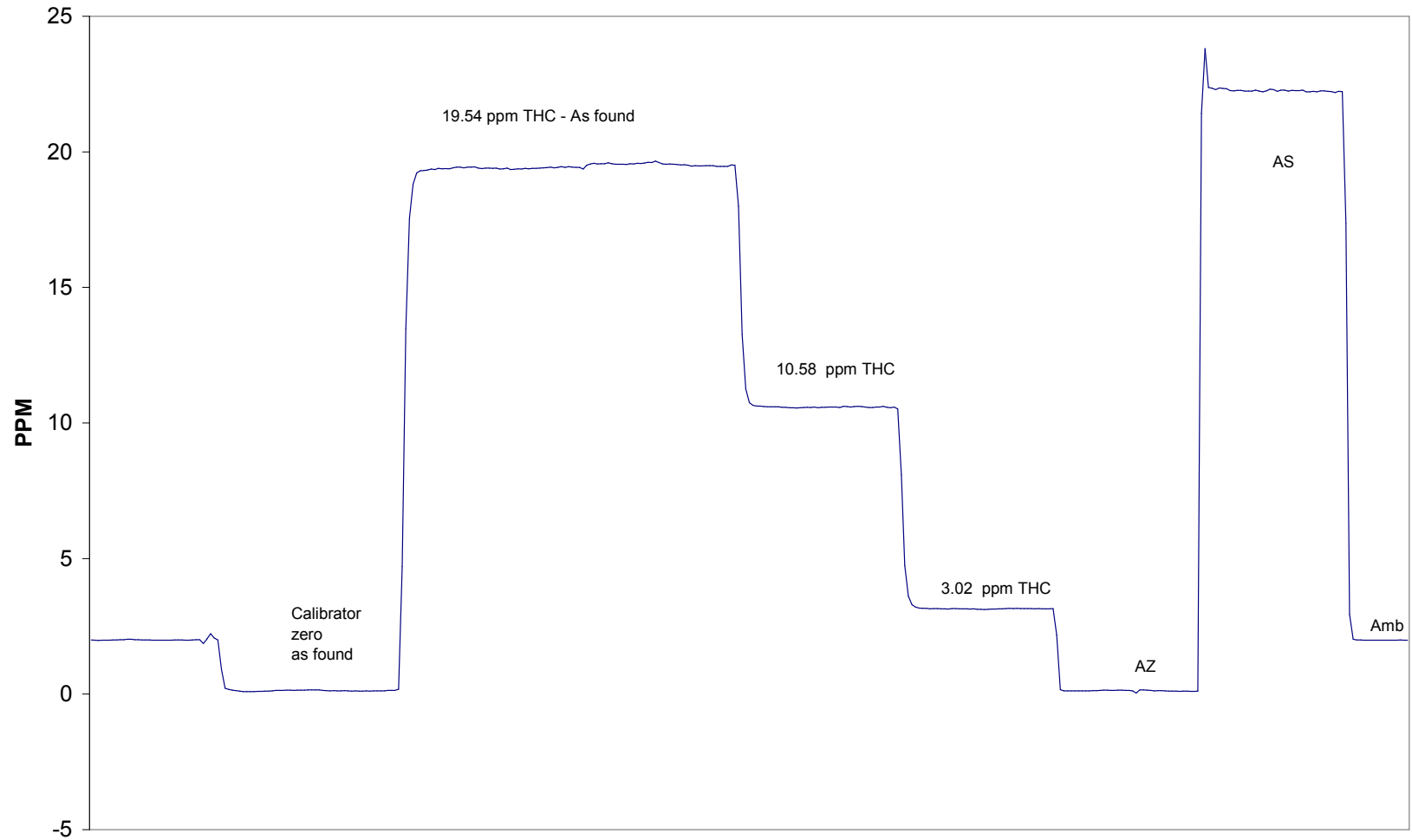
Calibration Date	April 18, 2006	Previous Calibration	March 27, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	11:15	End Time (MST)	13:55
Analyzer make/model	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

### Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.123	N/A		
19.542	19.492	1.0025	Correlation Coefficient	0.999993
10.583	10.590	0.9994		
3.019	3.151	0.9581	Slope	1.009974
			Intercept	-0.136352



### THC Calibration

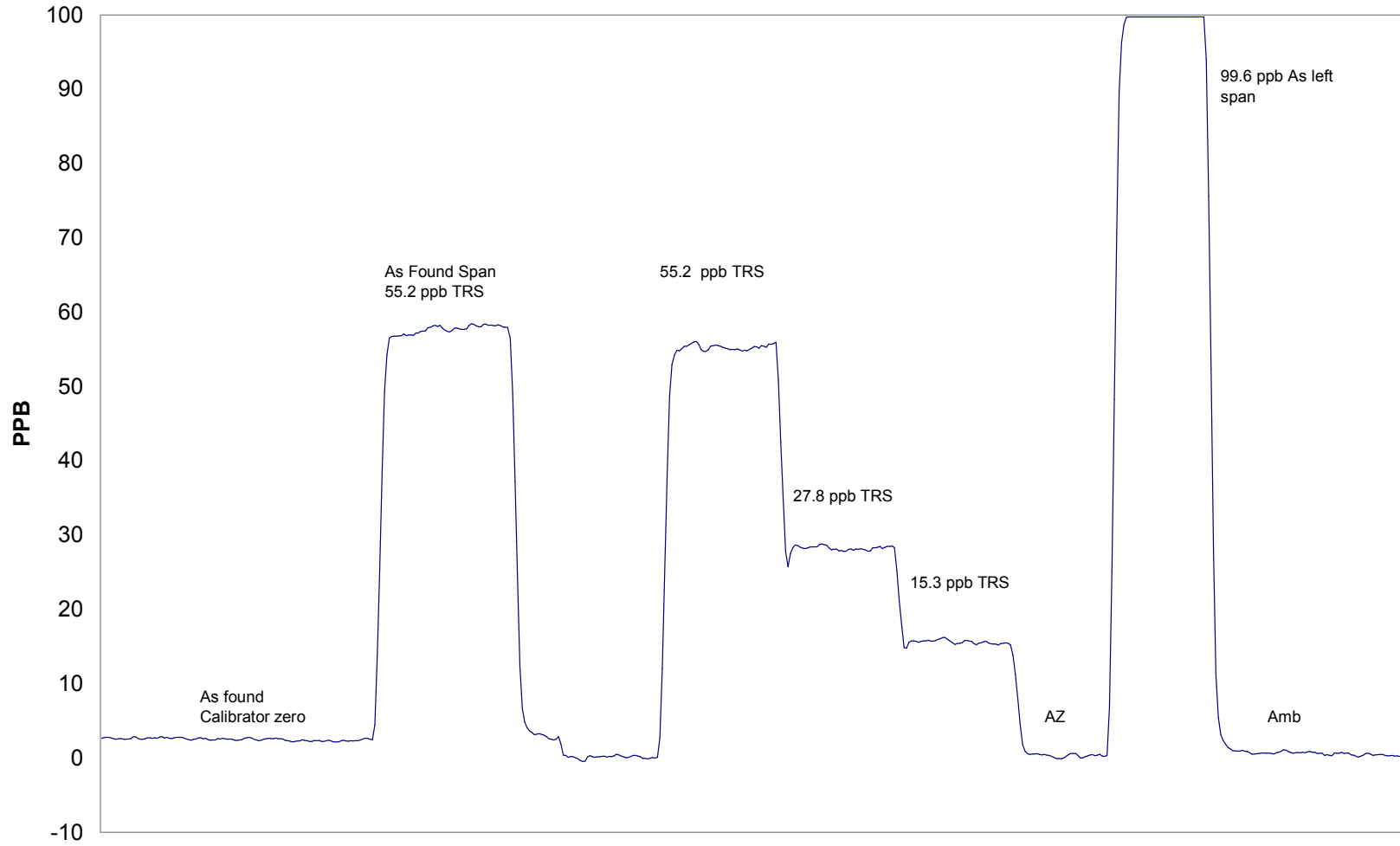


April 18, 2006





### TRS Calibration



April 18, 2006

**Calibration Report**Parameter PM2.5Air Monitoring Network PASZA**Station Information**

Calibration Date	April 7, 2006	Previous Calibration	March 27, 2006
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input type="checkbox"/> Routine	<input type="checkbox"/> Install	<input checked="" type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	8:00	End Time (MST)	11:45
Barometric Pressure	0.925 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

**Analyzer Information**

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

	before		after	
Main Flow Set Point	2.990	SLPM	2.990	SLPM
Aux Flow Set Point	13.68	SLPM	13.68	SLPM
Filter Load	22	%	15	%
Ko Factor	12122		13020	
Temperature	5.43	Deg C	12.5	Deg C
Pressure	0.920	ATM	0.928	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		0.00
flow recovery - main	45 - 60 Seconds	30.00	45 - 60 Seconds	25.00
flow recovery - aux	46 - 60 Seconds	45.00	46 - 60 Seconds	37.00
Temperature	measured	5.7	+/- 1.0 Deg C	0.2
Pressure	measured	0.930	+/- 1.5% ΔATM	0.924
Total Flow	16.67 SLPM	14.68		16.47
Main Flow	13.67 SLPM	12.45	+/- 1.0 SLPM	14.05
Auxillary Flow	3.0 SLPM	2.700	+/- 0.2 SLPM	3.030
Leak Check - main	0.0	0.02	<0.15 SLPM	0.07
Leak Check - aux	0.0	0.01	<0.15 SLPM	0.00
Ko Factor (w/o filter)	measured	337.749	filter weight (g)	0.11112
Ko Factor (w/ filter)	measured	239.141	% Ko difference	2.12%

Notes: Switched out Teom with s/n 140AB258750510Calibration Performed By: Dawn Ewan

# Calibration Report



Parameter SO<sub>2</sub>  
 Air Monitoring Network PASZA

### Station Information

Calibration Date	April 19, 2006	Previous Calibration	March 17, 2006
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)	9:59	End Time (MST)	13:20
Barometric Pressure	27.6 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	2,097 ng/min	Perm-tube Expiry Date	June 30/05
Correction factor	0.937522	Perm-tube Cert #	19-9955
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
Calculated slope	0.990689	Calculated slope	0.999109
Calculated intercept	-6.136535	Calculated intercept	-6.147531
Analyzer make	API 100	Analyzer serial #	32

	before		after	
Concentration range	500	ppb	500	ppb
Sample Flow	420	ccm	424	ccm
UV Lamp Voltage	3245	mv	3200	mv
Lamp Ratio	92	%	91	%
Rx Cell Temp	49	Deg C	49	Deg C
PMT Temp	10	Deg C	10	Deg C
IZS Temp	40	Deg C	40	Deg C
Slope	9.19		9.44	
Intercept	191.2		153	

### Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	1884.4	0.0	-1.0	N/A
2010	1884.4	424.8	427.7	0.9931
4980	4668.9	171.4	183.1	0.9363
9500	8906.5	89.9	101.5	0.8851
zero	1875.0		-4.1	As Found Zero
2000	1875.0	426.9	435.0	As Found Span
Average Correction Factor				0.9382

Calculated value of As Found Response: 428.818 ppm      Percent Change of As Found: -0.5%

	before calibration		after calibration	
Auto zero	-4.4	ppm	-5.2	ppm
Auto span	181.6	ppm	207.0	ppm

Notes:

Calibration Performed By: Dawn Ewan

## Calibration Summary

Parameter SO2  
Air Monitoring Network PASZA

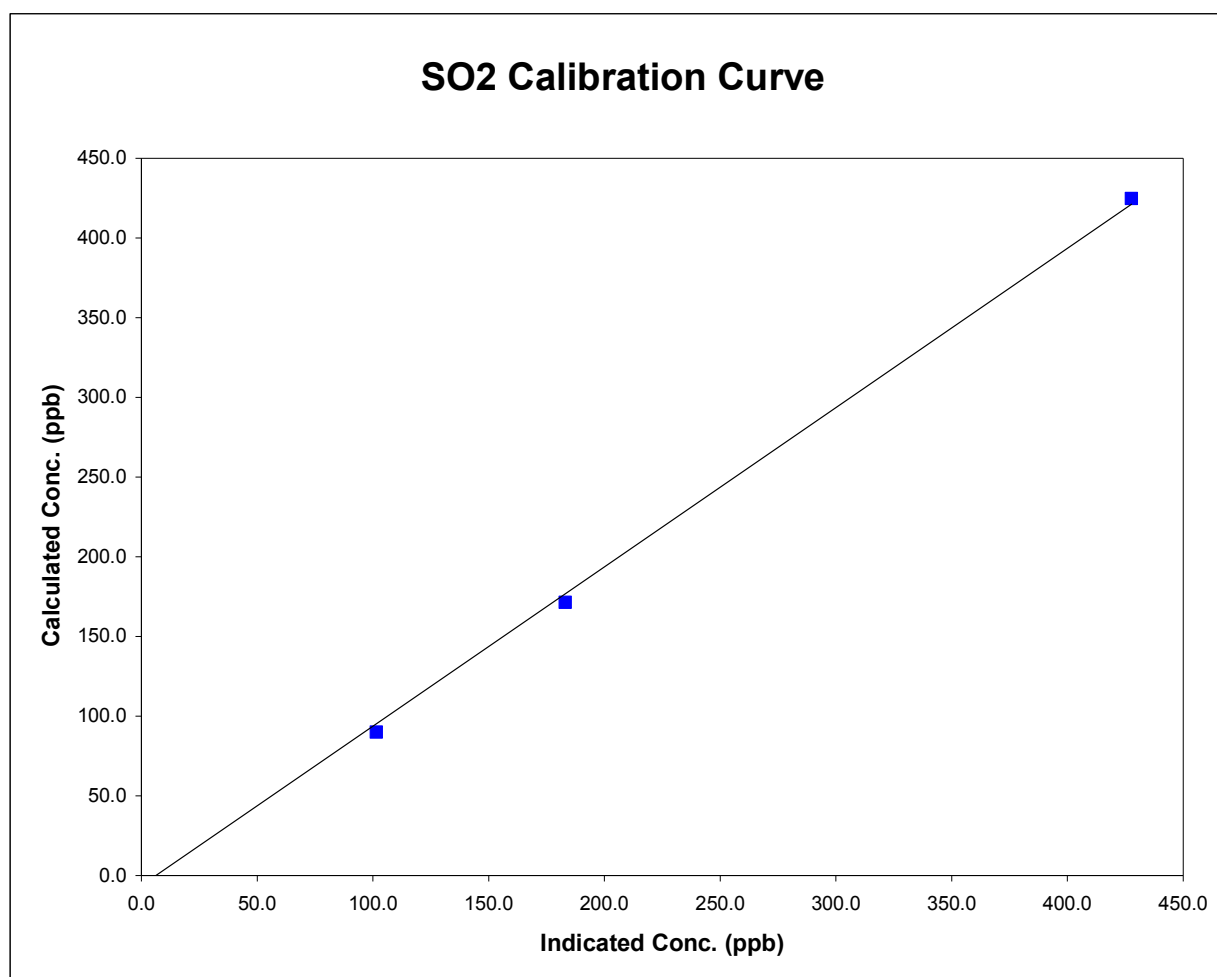


### Station Information

Calibration Date	April 19, 2006	Previous Calibration	March 17, 2006
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	9:59	End Time (MST)	13:20
Analyzer make/model	API 100	Analyzer serial #	32

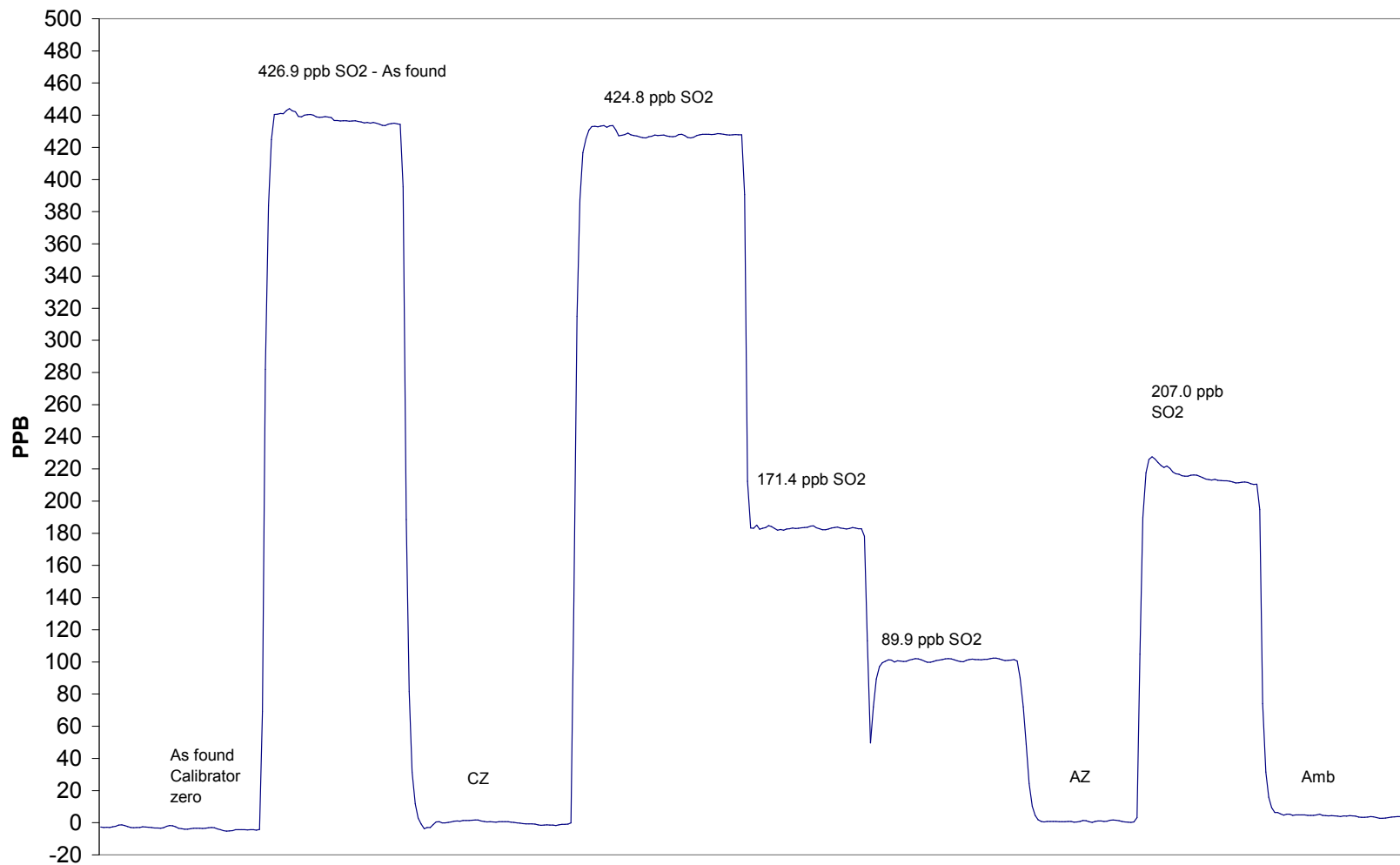
### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-1.0	N/A		
424.8	427.7	0.9931	Correlation Coefficient	0.998776
171.4	183.1	0.9363		
89.9	101.5	0.8851	Slope	0.999109
			Intercept	-6.147531





### SO2 Calibration

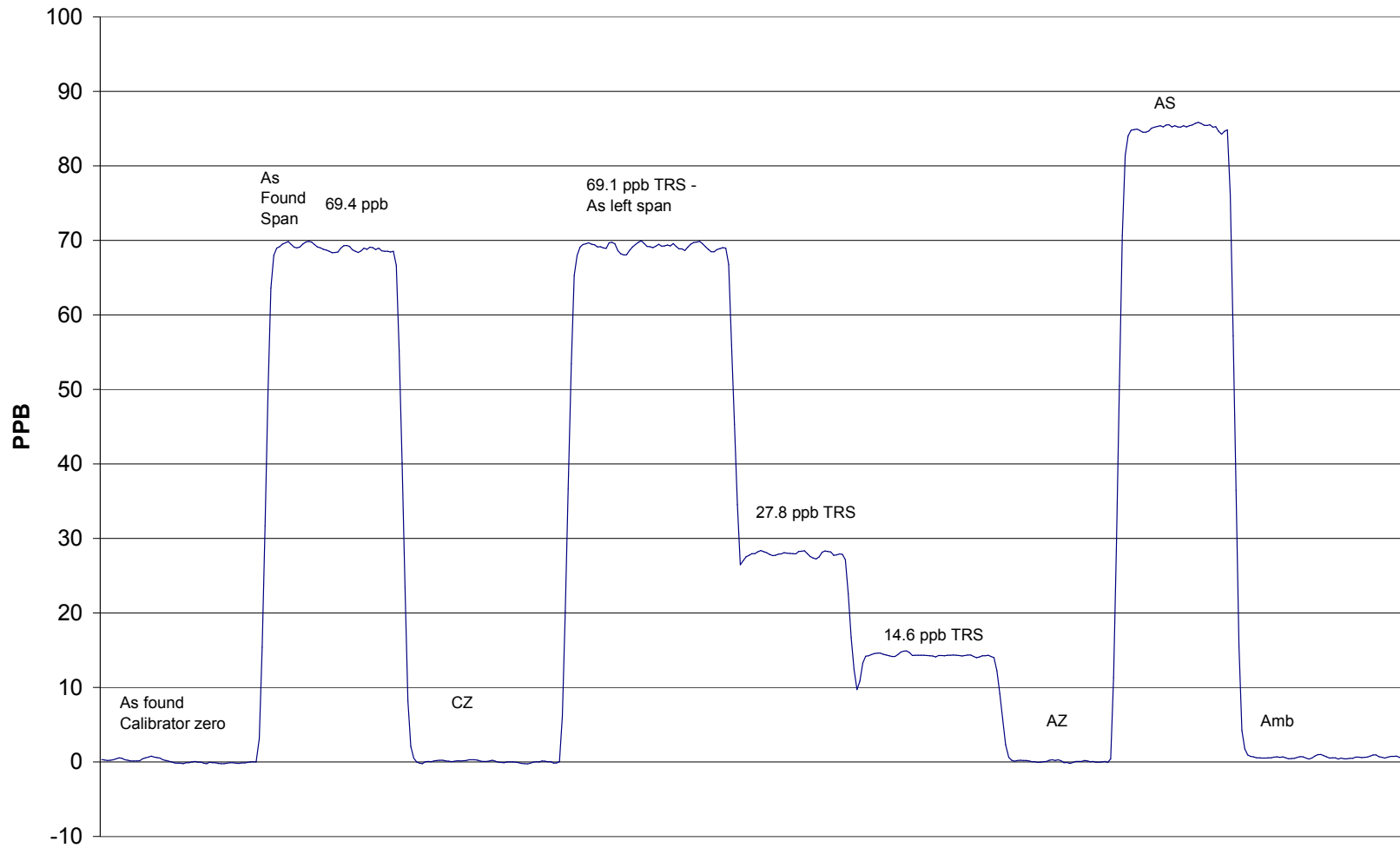


April 19, 2006





### TRS Calibration



April 19, 2006

**Calibration Report**Parameter PM2.5Air Monitoring Network PASZA**Station Information**

Calibration Date	April 18, 2006	Previous Calibration	March 14, 2006
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="text"/>
Start Time (MST)	11:05	End Time (MST)	15:00
Barometric Pressure	0.923 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15
	Before		After
DACS slope	0.050000	DACS slope	0.050000
DACS intercept	-50.000000	DACS intercept	-50.000000

**Analyzer Information**

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

	before		after	
Main Flow Set Point	2.990	SLPM	3.000	SLPM
Aux Flow Set Point	13.65	SLPM	13.65	SLPM
Filter Load	29	%	34	%
Ko Factor	10124		10124	
Temperature	14.5	Deg C	14.5	Deg C
Pressure	0.922	ATM	0.922	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	-0.01		-0.01
flow recovery - main	45 - 60 Seconds	30.0	45 - 60 Seconds	30
flow recovery - aux	46 - 60 Seconds	42.0	46 - 60 Seconds	42
Temperature	measured	14.8	+/- 1.0 Deg C	-15.2
Pressure	measured	0.926	+/- 1.5% ΔATM	0.925
Total Flow	16.67 SLPM	14.40		16.00
Main Flow	13.67 SLPM	12.11	+/- 1.0 SLPM	13.52
Auxillary Flow	3.0 SLPM	2.650	+/- 0.2 SLPM	2.982
Leak Check - main	0.0	-0.01	<0.15 SLPM	-0.01
Leak Check - aux	0.0	0.14	<0.15 SLPM	0.13
Ko Factor (w/o filter)	measured		filter weight (g)	0.11012
Ko Factor (w/ filter)	measured		% Ko difference	N/A

Notes: Cleaned head.Calibration Performed By: Dawn Ewan

**Calibration Report**Parameter SO<sub>2</sub>Air Monitoring Network PASZA**Station Information**

Calibration Date	April 3, 2006	Previous Calibration	March 21, 2006
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:	Check on lack of span
Start Time (MST)	7:55	End Time (MST)	23:13
Barometric Pressure	27.55 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	2,097 ng/min	Perm-tube Expiry Date	June 30/05
Correction factor	0.936502	Perm-tube Cert #	19-9955
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	<u>Before</u>		<u>After</u>
Calculated slope	1.010796	Calculated slope	1.000821
Calculated intercept	3.035897	Calculated intercept	0.189580
Analyzer make	API 102A	Analyzer serial #	212

	before		after	
Concentration range	500	ppb	500	ppb
Sample Flow	563	ccm	574	ccm
UV Lamp Voltage	3500	mv	3140	mv
Lamp Ratio	99.5	%	90	%
Rx Cell Temp	50	Deg C	51.4	Deg C
PMT Temp	7	Deg C	7	Deg C
IZS Temp	45	Deg C	45	Deg C
Slope	1.049		1.082	
Intercept	25.9		21.3	

**Calibration Data**

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	1896.4	0.0	0.5	N/A
2025	1896.4	422.1	421.3	1.0017
4020	3764.7	212.6	213.3	0.9969
9000	8428.5	95.0	93.2	1.0187
zero	1882.4	0.0	-1.7	As Found Zero
2010	1882.4	425.2	398.3	As Found Span
Average Correction Factor				1.0058

Calculated value of As Found Response: 407.418 ppm      Percent Change of As Found: 4.2%

	before calibration		after calibration	
Auto zero	2.2	ppm	-0.2	ppm
Auto span	241.7	ppm	231.3	ppm

Notes: Adjusted zero and span.Calibration Performed By: Dawn Ewan

## Calibration Summary

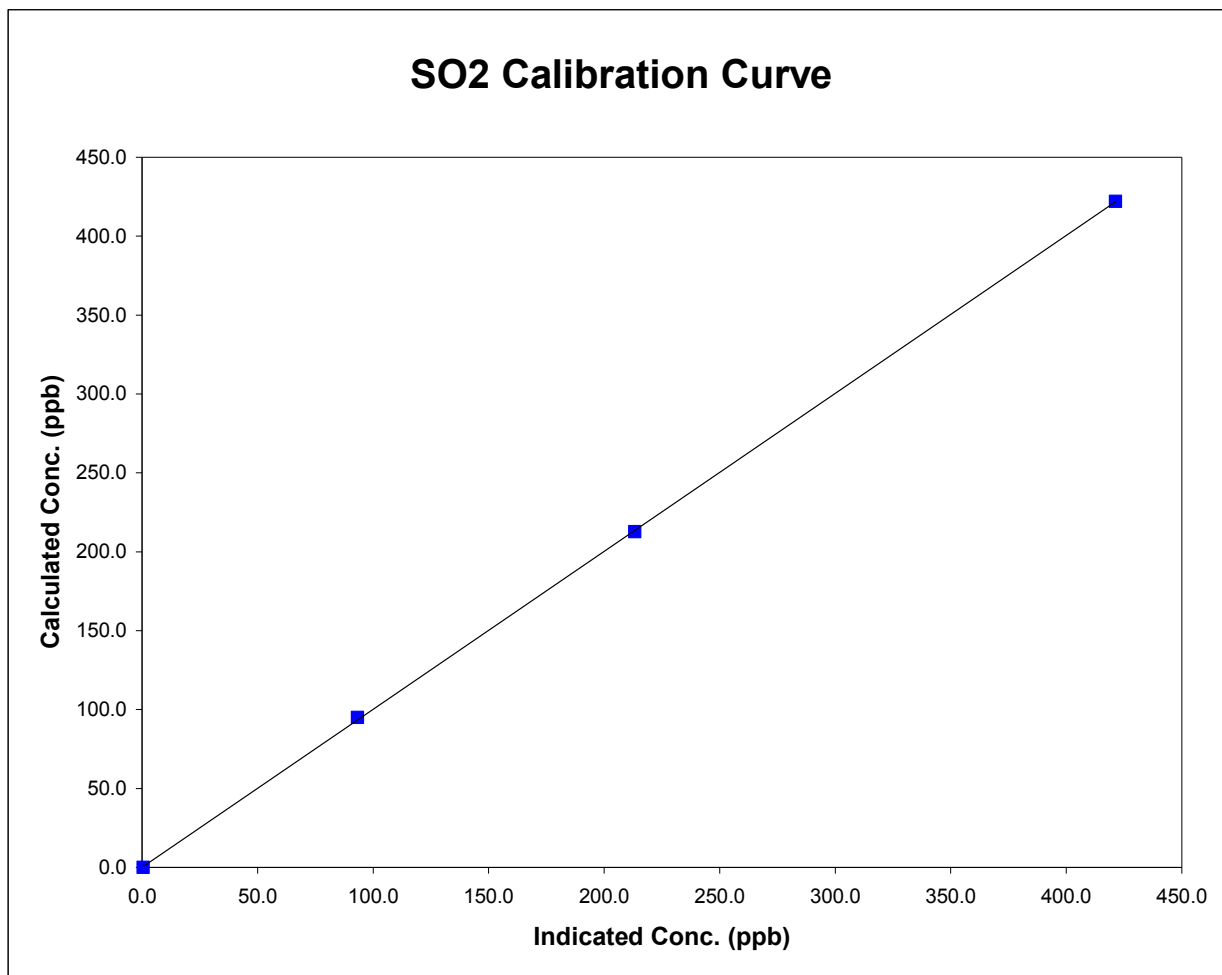
Parameter SO2Air Monitoring Network PASZA

### Station Information

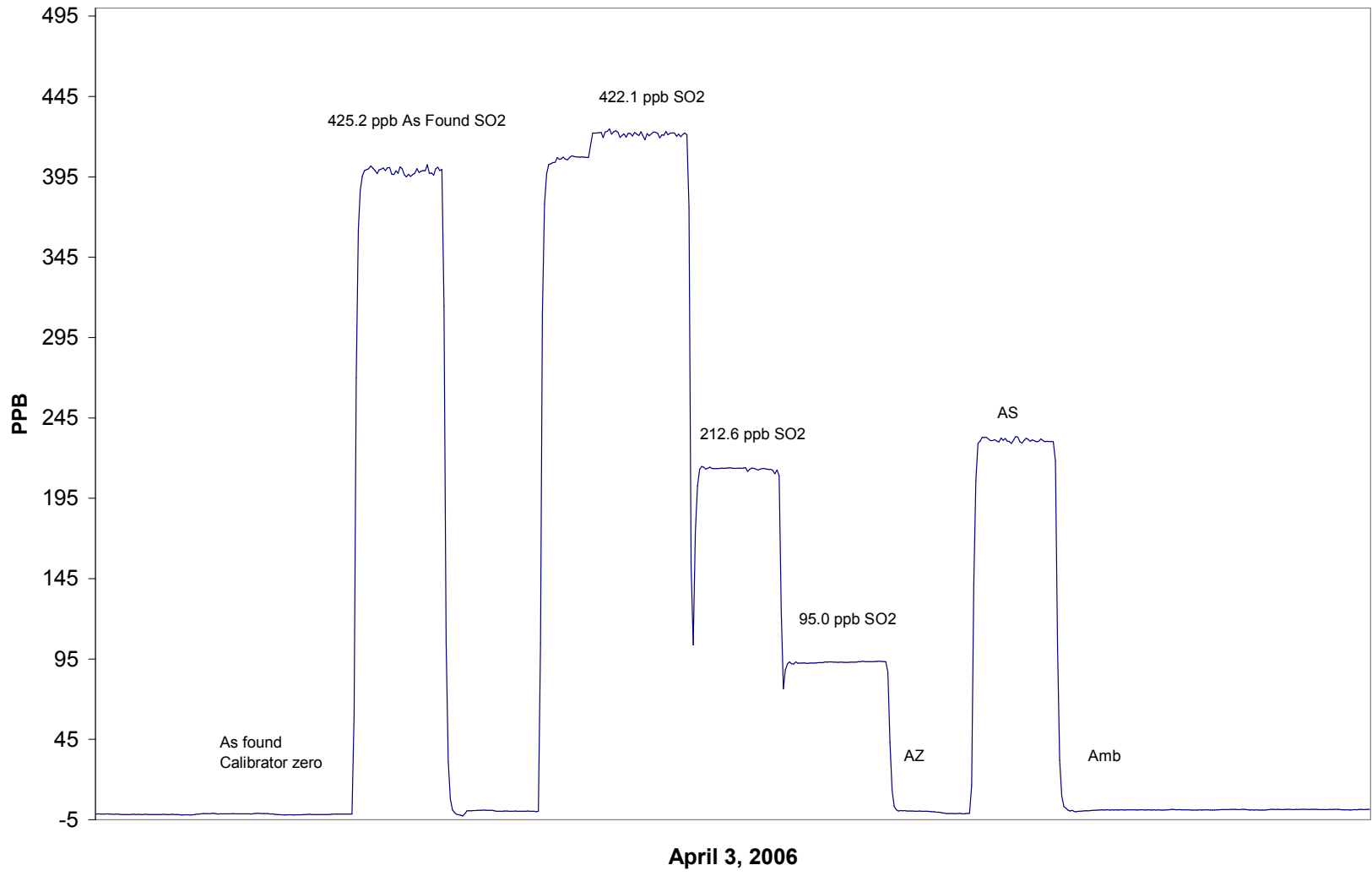
Calibration Date	April 3, 2006	Previous Calibration	March 21, 2006
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	7:55	End Time (MST)	23:13
Analyzer make/model	API 102A	Analyzer serial #	212

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.5	N/A		
422.1	421.3	1.0017	Correlation Coefficient	0.999963
212.6	213.3	0.9969		
95.0	93.2	1.0187	Slope	1.000821
			Intercept	0.189580



### SO2 Calibration

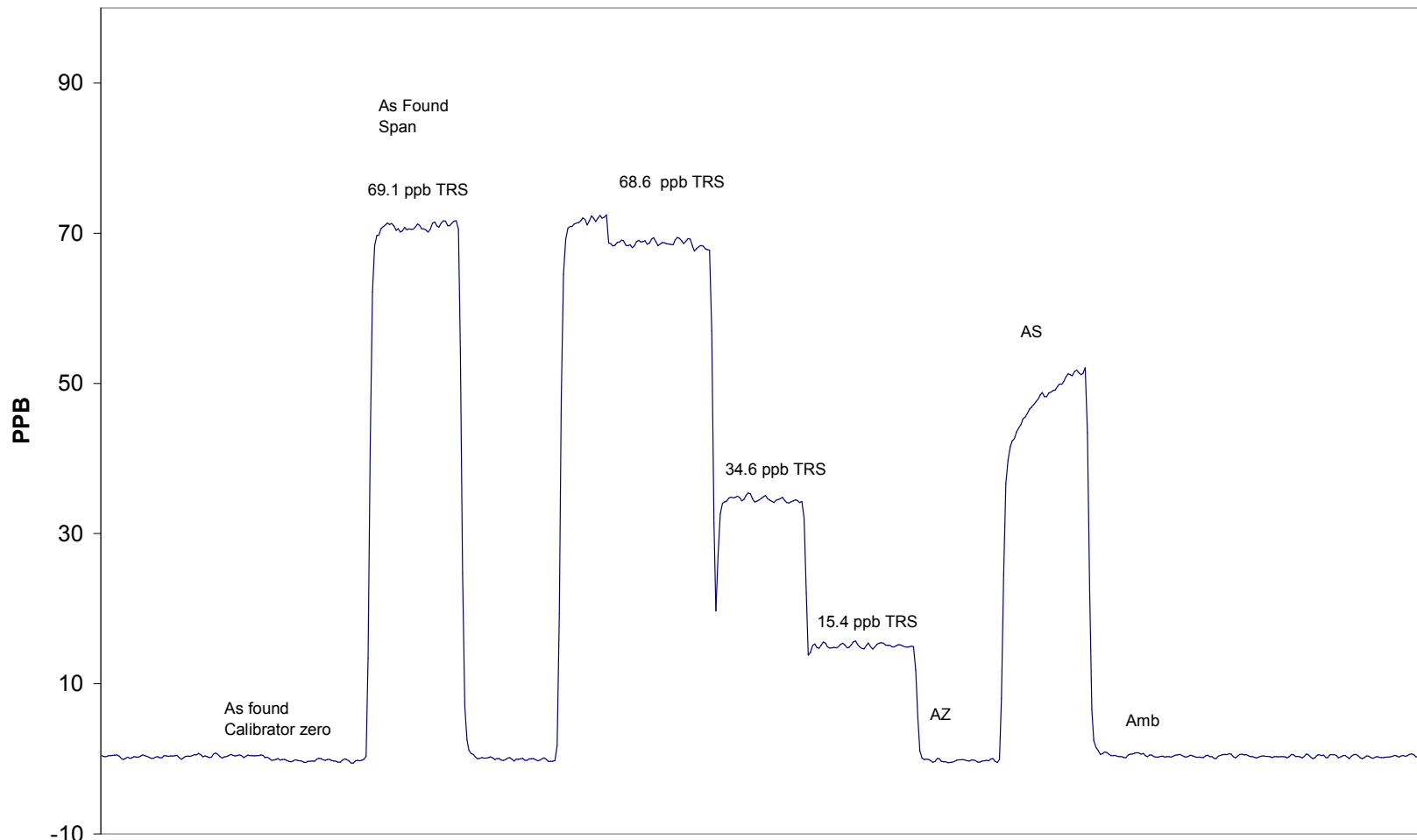








### TRS Calibration



April 3, 2006

**Calibration Report**Parameter PM2.5Air Monitoring Network PASZA**Station Information**

Calibration Date	April 3, 2006	Previous Calibration	March 21, 2006
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)	20:00	End Time (MST)	20:45
Barometric Pressure	0.921 inches Hg	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

**Analyzer Information**

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

	before		after	
Main Flow Set Point	2.990	SLPM	2.990	SLPM
Aux Flow Set Point	13.65	SLPM	16.65	SLPM
Filter Load	28	%	28	%
Ko Factor	10997		10997	
Temperature	8.5	Deg C	8.5	Deg C
Pressure	0.921	ATM	0.921	ATM
Main Fadj	0.948		0.948	
Aux Fadj	0.880		0.880	

**Calibration Data**

Parameter	Set Point	As Found	Tolerance	New Reading
zero flow - main	0.0	0.02		0.02
zero flow - auxillary	0.0	0.03		0.03
flow recovery - main	45 - 60 Seconds	25	45 - 60 Seconds	27
flow recovery - aux	46 - 60 Seconds	45	46 - 60 Seconds	50
Temperature	measured	7.9	+/- 1.0 Deg C	-0.1
Pressure	measured	0.926	+/- 1.5% ΔATM	0.922
Total Flow	16.67 SLPM	15.14		15.14
Main Flow	13.67 SLPM	12.67	+/- 1.0 SLPM	12.67
Auxillary Flow	3.0 SLPM	2.820	+/- 0.2 SLPM	2.820
Leak Check - main	0.0	0.11	<0.15 SLPM	0.11
Leak Check - aux	0.0	0.07	<0.15 SLPM	0.07
Ko Factor (w/o filter)	measured		filter weight (g)	
Ko Factor (w/ filter)	measured		% Ko difference	

Notes: No adjustments made.Calibration Performed By: Dawn Ewan

**Calibration Report**

Parameter PM2.5  
 Air Monitoring Network PASZA

**Station Information**

Calibration Date	April 19, 2006	Previous Calibration	April 3, 2006
Station Number	3	Station Location	Smoky Heights
Reason:	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	19:00	End Time (MST)	20:45
Barometric Pressure	0.919 inches Hg	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

**Analyzer Information**

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

	before		after	
Main Flow Set Point		SLPM	3.000	SLPM
Aux Flow Set Point		SLPM	13.67	SLPM
Filter Load		%	16	%
Ko Factor			12122	
Temperature		Deg C	16.8	Deg C
Pressure		ATM	0.919	ATM
Main Fadj			1.000	
Aux Fadj			1.000	

**Calibration Data**

Parameter	Set Point	As Found	Tolerance	New Reading
zero flow - main	0.0			0.00
zero flow - auxillary	0.0			0.00
flow recovery - main	45 - 60 Seconds		45 - 60 Seconds	30
flow recovery - aux	46 - 60 Seconds		46 - 60 Seconds	40
Temperature	measured		+/- 1.0 Deg C	16.6
Pressure	measured		+/- 1.5% ΔATM	0.924
Total Flow	16.67 SLPM			16.00
Main Flow	13.67 SLPM		+/- 1.0 SLPM	13.05
Auxillary Flow	3.0 SLPM		+/- 0.2 SLPM	3.008
Leak Check - main	0.0		<0.15 SLPM	0.01
Leak Check - aux	0.0		<0.15 SLPM	-0.02
Ko Factor (w/o filter)	measured		filter weight (g)	0.11014
Ko Factor (w/ filter)	measured		% Ko difference	

Notes: Instal of HP Teom unit.

Calibration Performed By: Dawn Ewan

**Calibration Report**Parameter SO<sub>2</sub>Air Monitoring Network PASZA**Station Information**

Calibration Date	April 11, 2006	Previous Calibration	March 8, 2006
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)	10:40	End Time (MST)	13:10
Barometric Pressure	0.909 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2977
Cal Gas Make	Scott	Cal Gas Expiry Date	December 12, 2005
Cal Gas Conc.	10.3 ppm	Cal Gas Cylinder #	BLM002816
DACS make	Focus AP1000	DACS serial No.	45267
DACS voltage range	0 - 10 volt	DACS channel #	3
	<u>Before</u>		<u>After</u>
Calculated slope	0.994638	Calculated slope	1.010050
Calculated intercept	0.406075	Calculated intercept	-0.125754
Analyzer make	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	2.39	ppb	2.39	ppb
Coefficient	0.828		0.828	
Lamp Voltage	906.0	Volts	909.0	Volts
Chamber Temp	43.8	Deg C	43.2	Deg C
Sample Flow	602	ccm	616	ccm

**Calibration Data**

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.00	0.00	0.40	N/A
4992	39.92	81.71	81.14	1.0071
4992	19.93	40.96	40.61	1.0085
4992	9.95	20.49	20.08	1.0203
4992	0.00	0.00	-0.07	As Found Zero
4992	39.92	81.71	81.53	As Found Span
Average Correction Factor				1.0120

Calculated value of As Found Response: 81.571 ppm Percent Change of As Found: 0.2%

	before calibration		after calibration	
Auto zero	0.34	ppm	-0.19	ppm
Auto span	29.32	ppm	27.70	ppm

Notes: No adjustments necessary.Calibration Performed By: Dawn Ewan

# Calibration Summary

Parameter SO2

Air Monitoring Network PASZA

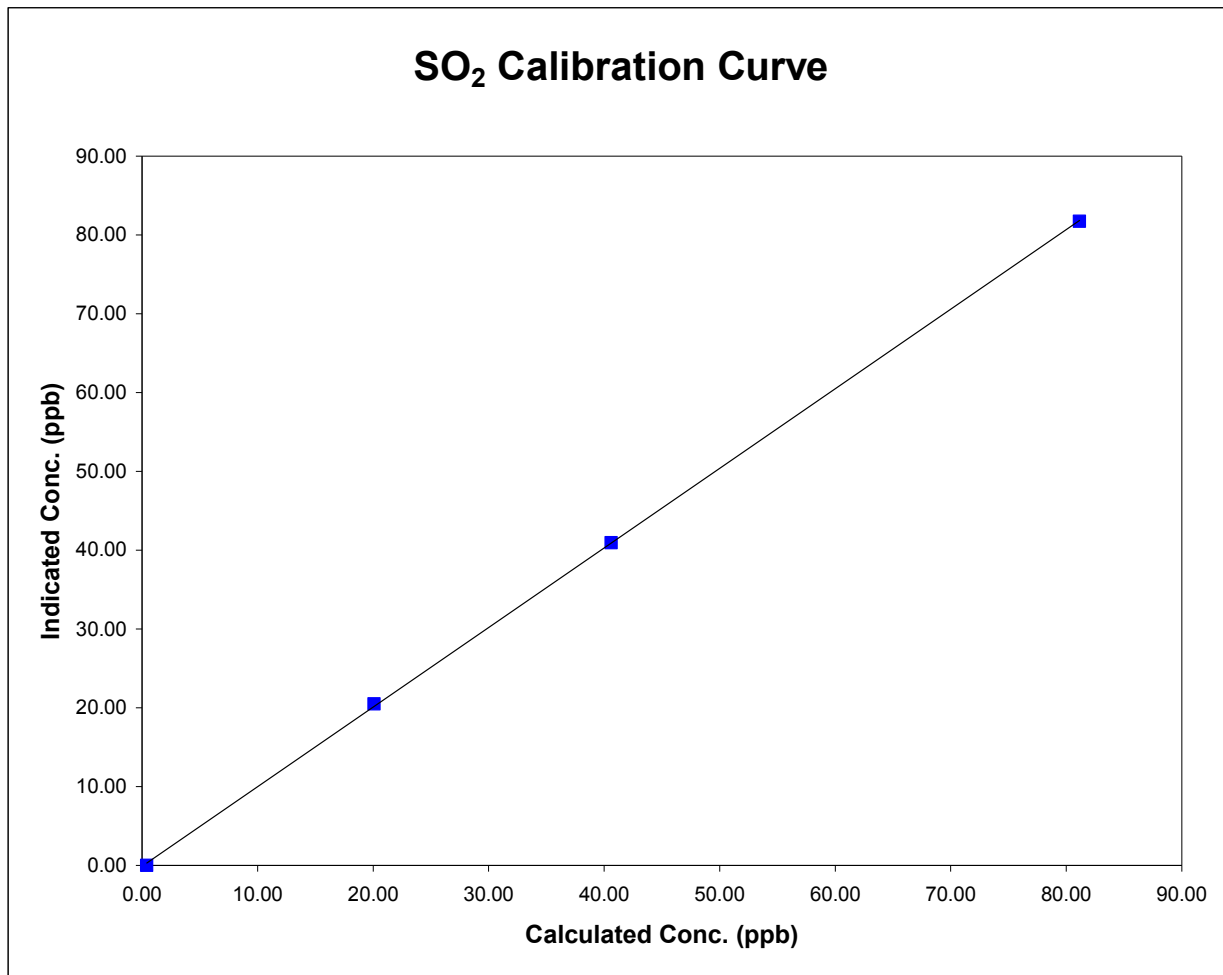


### Station Information

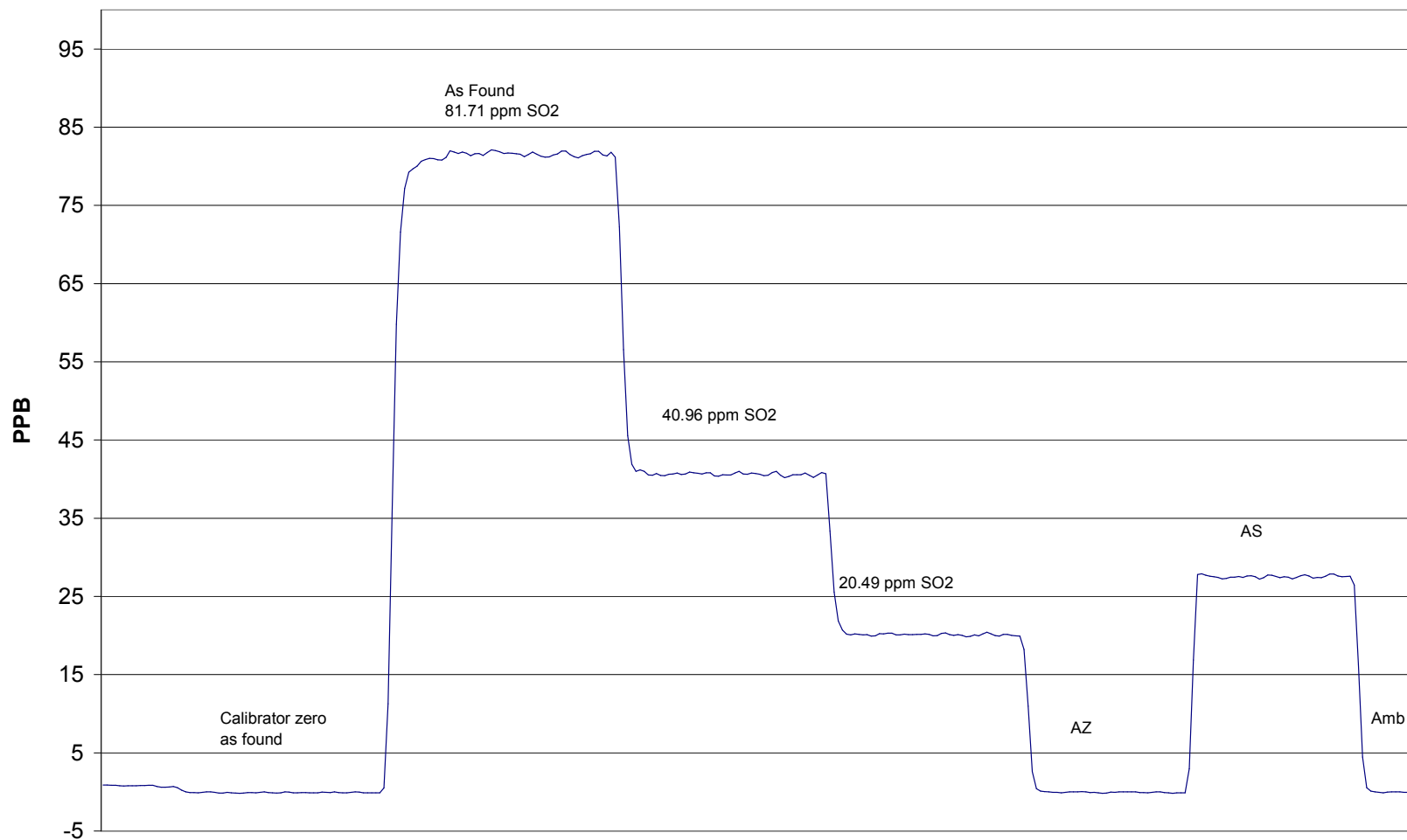
Calibration Date	April 11, 2006	Previous Calibration	March 8, 2006
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	10:40	End Time (MST)	13:10
Analyzer make/model	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

### Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.404	N/A		
81.714	81.136	1.0071	Correlation Coefficient	0.999944
40.958	40.613	1.0085		
20.489	20.082	1.0203	Slope	1.010050
			Intercept	-0.125754



### SO<sub>2</sub> Calibration



April 11, 2006



# Calibration Report

Parameter **NO<sub>x</sub>-NO-NO<sub>2</sub>**  
 Air Monitoring Network **PASZA**



## Station Information

Calibration Date	<u>April 10, 2006</u>	Previous Calibration	<u>March 7, 2006</u>
Station Number	<u>4</u>	Station Location	<u>AG Canada Research Station</u>

Reason:  Routine     Installation     Removal    Other: \_\_\_\_\_

Start Time (MST)	<u>9:21</u>	End Time (MST)	<u>16:19</u>
Barometric Pressure	<u>0.905</u> <small>Atm</small>	Station Temperature	<u>20.0</u> <small>Deg C</small>
Calibrator	<u>EnviroNics 6103</u>	Serial Number	<u>2977</u>
NO Cal Gas Conc	<u>50.3</u> <small>ppm</small>	Cal Gas Expiry Date	<u>Nov 22/06</u>
NO <sub>x</sub> Cal Gas Conc	<u>50.5</u> <small>ppm</small>	Cal Gas Serial #	<u>BAL786</u>

## DACS Information

DACS make FOCUS AP1000      DACS serial No. 45269

Parameter		NO <sub>2</sub>	NO <sub>x</sub>	NO
Before	Data Slope	1.018206	1.000817	0.999771
	Data Offset	-2.061054	1.920631	1.920965
After	Data Slope	0.999807	1.001268	1.002293
	Data Offset	0.209217	0.934865	0.795856
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

## Analyzer Information

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

Test Point	before		after	
Concentration range	0-1000	ppb	0-1000	ppb
NO background	1.2	ppb	1.1	mV
NO <sub>x</sub> background	1.6	ppb	1.4	mV
NO coefficient	0.965		0.952	
NO <sub>x</sub> coefficient	0.982		0.992	
Box Temp	35.6	ccm	27.3	ccm
Chamber Temp	49.4	Deg C	49.4	Deg C
Cooler Temp	-2.2	Deg C	-2.1	Deg C
Converter Temp	324.0	Deg C	324.0	Deg C
Sample Flow	847.0	LPM	831.0	LPM
Ozonator Flow	0.087	LPM	0.087	LPM
Pressure	161.2	inches HG	159.6	inches Hg

Notes: Adjusted zero and span.

# Calibration Report

Parameter **NO<sub>x</sub>-NO-NO<sub>2</sub>**  
 Air Monitoring Network **PASZA**



## Station Information

Calibration Date: **April 10, 2006** Station Location: **AG Canada Research Station**

## Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO <sub>x</sub> conc (ppb)	Calculated NO conc (ppb)	Calculated NO <sub>2</sub> conc (ppb)	Indicated NO <sub>x</sub> conc (ppb)	Indicated NO conc (ppb)	Indicated NO <sub>2</sub> conc (ppb)	NO <sub>x</sub> Correction factor	NO Correction factor	
zero	4992	0.00	0.0	0.0	0.0	-0.3	-0.4	-0.4	N/A	N/A	
1	4992	79.92	795.7	792.6	3.2	794.0	790.0	3.0	1.0022	1.0032	
2	4992	39.98	401.2	399.6	1.6	399.9	398.1	1.1	1.0034	1.0038	
3	4992	20.00	201.5	200.7	0.8	199.5	198.8	0.2	1.0102	1.0098	
AFZ	4992	0.00	0.0	0.0	0.0	-0.7	-0.4	-0.4	0.0000	0.0000	
AFS	4992	79.92	795.7	792.6	3.2	800.5	807.1	-7.6	0.9941	0.9820	
									Average Correction Factor	1.0053	1.0056

As Found Concentrations: **NO<sub>x</sub>= 803.1** **NO= 809.4** As Found Percent Change **NO<sub>x</sub>= 0.9%** **NO= 2.1%**

## GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

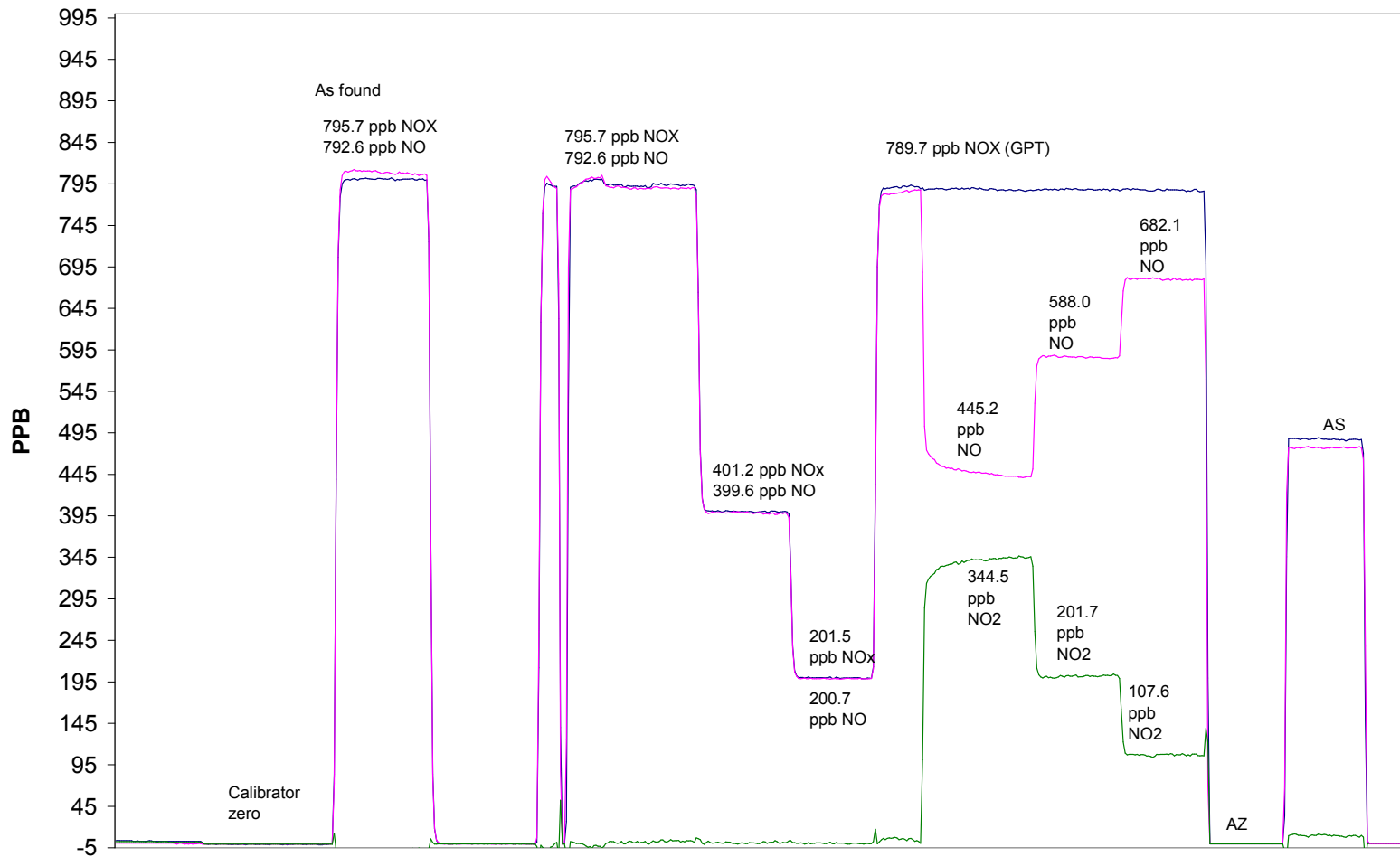
O3 Setpoint (ppb)	Calculated NO <sub>x</sub> conc (ppb)	Calculated NO conc (ppb)	Calculated NO <sub>2</sub> conc (ppb)	Indicated NO <sub>x</sub> conc (ppb)	Indicated NO conc (ppb)	Indicated NO <sub>2</sub> conc (ppb)	NO <sub>x</sub> Correction factor	NO Correction factor	NO <sub>2</sub> Correction factor	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	789.7	787.3	2.4	791.2	784.7	5.7	0.9981	1.0033	N/A	N/A	
350	789.7	445.2	344.5	787.7	443.4	344.1	1.0026	1.0041	1.0013	99.9%	
200	789.7	588.0	201.7	788.3	585.9	202.1	1.0018	1.0037	0.9978	100.2%	
100	789.7	682.1	107.6	787.4	679.7	107.3	1.0029	1.0035	1.0030	99.7%	
							Average Correction Factor	1.0025	1.0037	1.0007	99.9%

## AIC Data

Parameter	Previous calibration				Current calibration			
	NO <sub>x</sub>	NO <sub>2</sub>	NO		NO <sub>x</sub>	NO <sub>2</sub>	NO	
Auto zero	1.6	-2.4	1.6	ppb	0.6	-0.1	0.5	ppb
Auto span	468.2	102.8	364.2	ppb	488.6	9.7	479.0	ppb

Calibration Performed By: Dawn Ewan

### NOx Calibration



April 10, 2006

## Calibration Summary

Parameter NO<sub>2</sub>  
 Air Monitoring Network PASZA

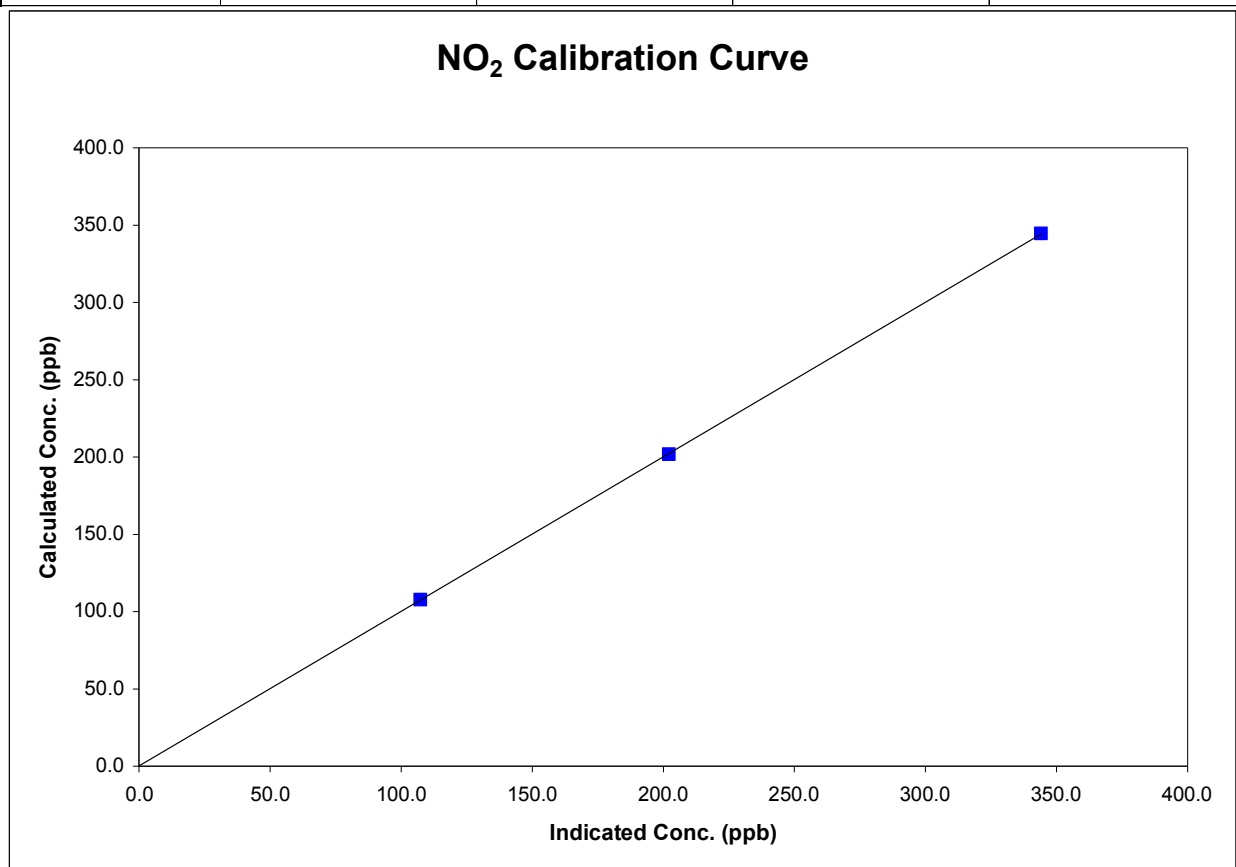


### Station Information

Calibration Date	April 10, 2006	Previous Calibration	March 7, 2006
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	9:21	End Time (MST)	16:19
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	0.0000	Correlation Coefficient	0.999992
344.5	344.1	1.0013		
201.7	202.1	0.9978	Slope	0.999807
107.6	107.3	1.0030		
			Intercept	0.209217



## Calibration Summary

Parameter NO<sub>x</sub>  
 Air Monitoring Network PASZA

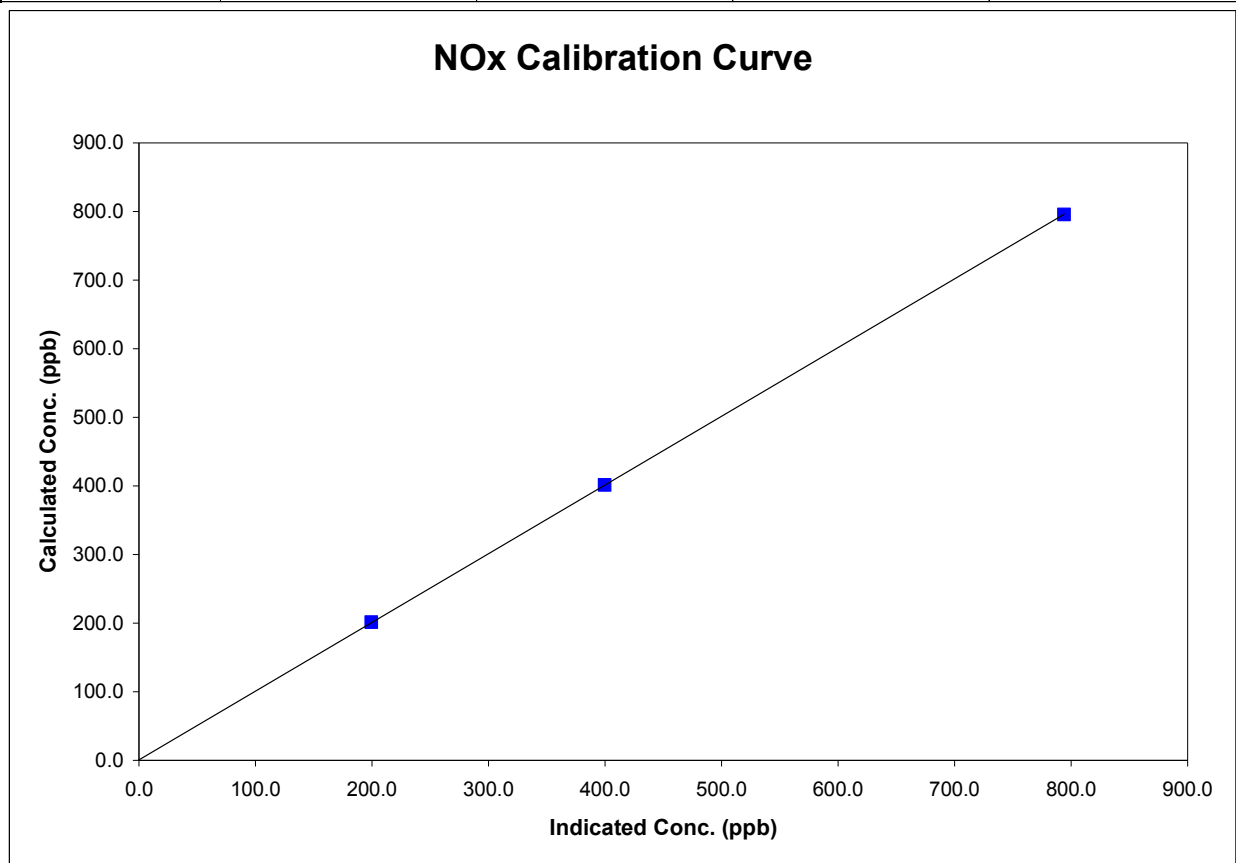


### Station Information

Calibration Date	April 10, 2006	Previous Calibration	March 7, 2006
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	9:21	End Time (MST)	16:19
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

### Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	0.0000	Correlation Coefficient	0.999997
795.7	794.0	1.0022		
401.2	399.9	1.0034	Slope	1.001268
201.5	199.5	1.0102		
			Intercept	0.934865



## Calibration Summary

Parameter NO  
 Air Monitoring Network PASZA

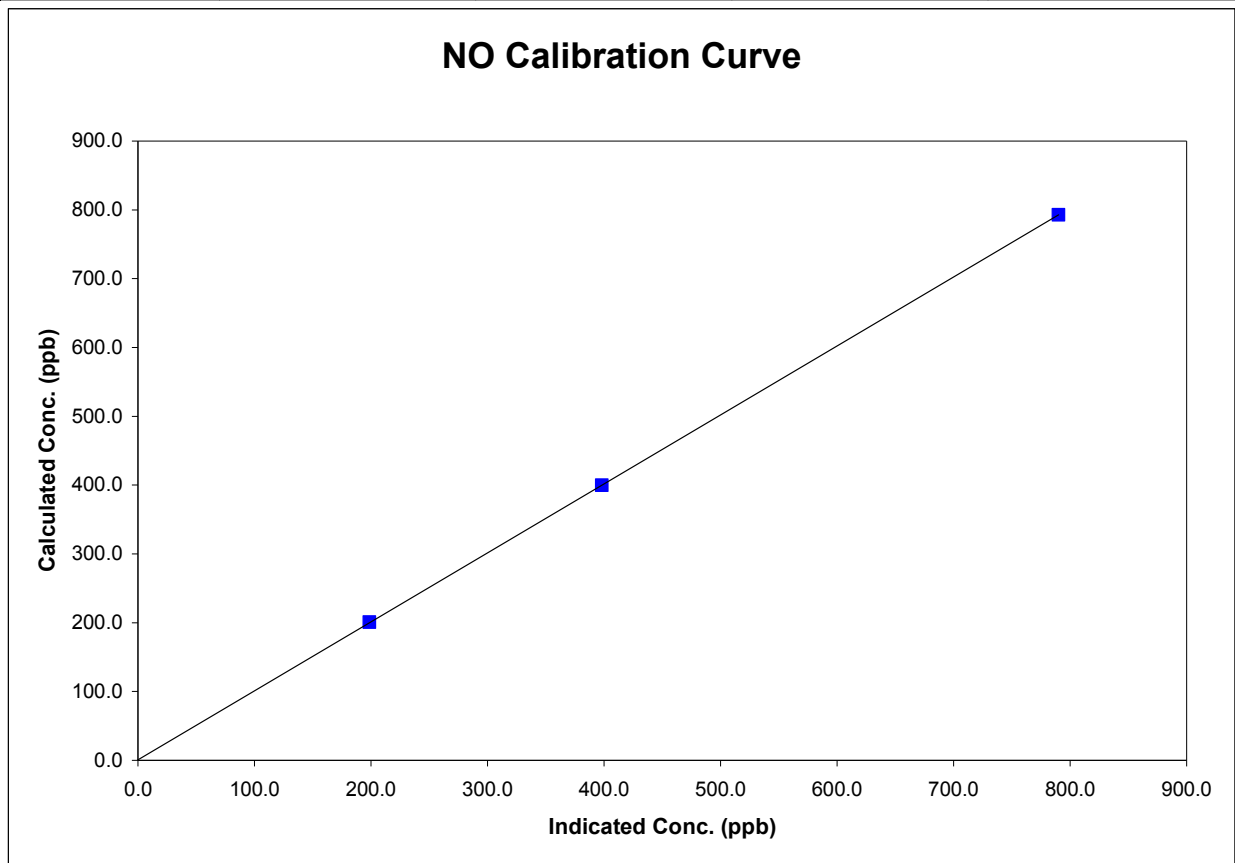


### Station Information

Calibration Date	April 10, 2006	Previous Calibration	March 7, 2006
Station Number	4	Station Location	AG Canada Research Station
Start Time (MST)	9:21	End Time (MST)	16:19
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

### Calibration Data

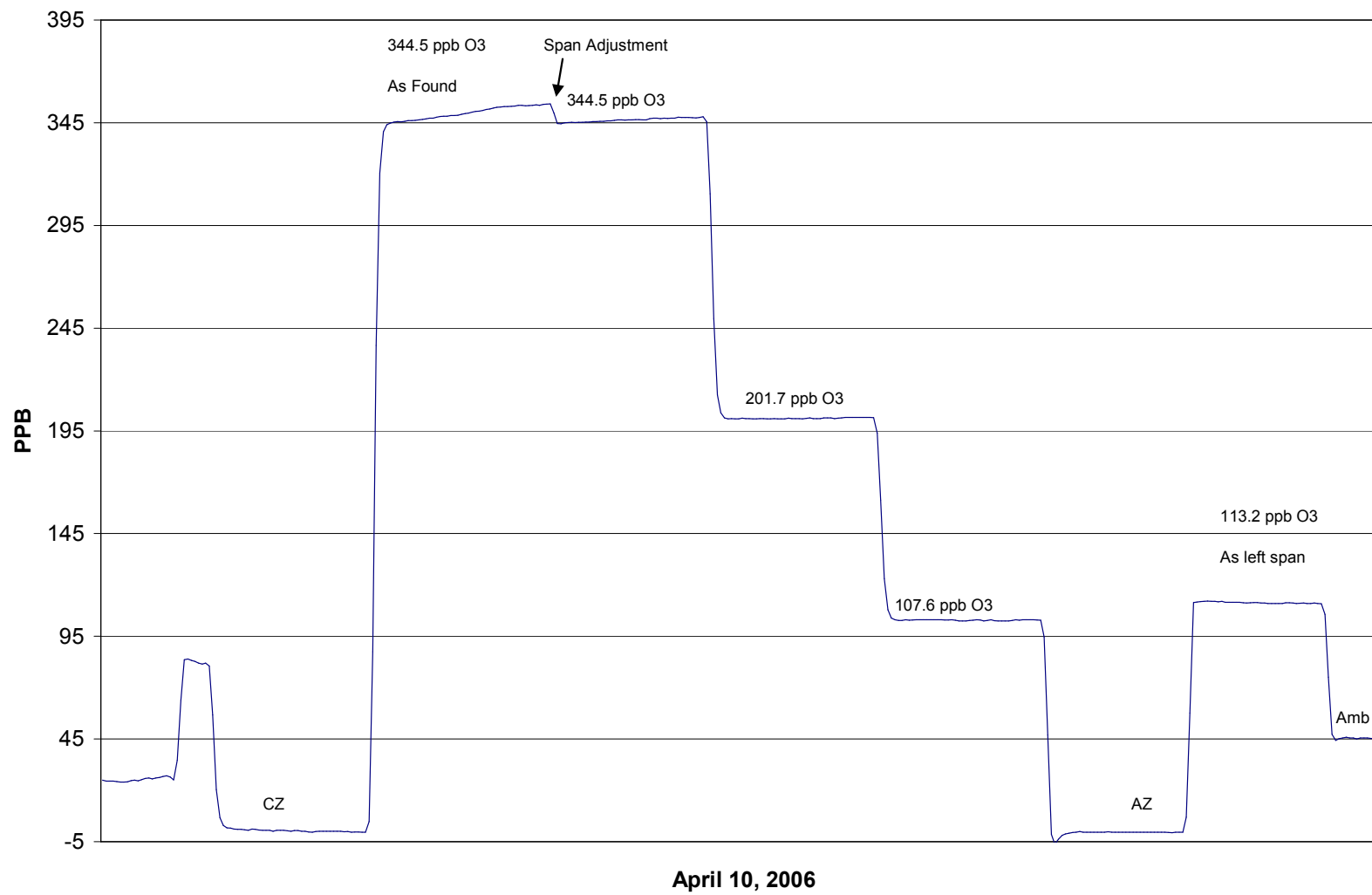
Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.4	N/A	Correlation Coefficient	0.999998
792.6	790.0	1.0032		
399.6	398.1	1.0038		
200.7	198.8	1.0098	Slope	1.002293
			Intercept	0.795856









**O3 Calibration**

**Calibration Report**Parameter PM2.5Air Monitoring Network PASZA**Station Information**

Calibration Date	April 11, 2006	Previous Calibration	March 7, 2006
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)	10:00	End Time (MST)	12:40
Barometric Pressure	0.903 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	10

**Analyzer Information**

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

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.68	SLPM
Filter Load	34	%	17	%
Ko Factor	14287		14287	
Temperature	12.3	Deg C	12.3	Deg C
Pressure	0.909	ATM	0.909	ATM

**Calibration Data**

Parameter	Set Point	Teom Reading (As Found)	Tolerance	Teom Reading (After Adjustments)
zero flow - main	0.0	0.01		0.01
zero flow - auxiliary	0.0	0.03		0.04
flow recovery - main	45 - 60 Seconds	na	45 - 60 Seconds	40
flow recovery - aux	46 - 60 Seconds	na	46 - 60 Seconds	35
Temperature	measured	12.6	+/- 1.0 Deg C	12.6
Pressure	measured	0.909	+/- 1.5% ΔATM	0.909
Total Flow	16.67 SLPM	15.25		15.18
Auxiliary Flow	13.67 SLPM	12.93	+/- 1.0 SLPM	12.90
Main Flow	3.0 SLPM	2.840	+/- 0.2 SLPM	2.850
Leak Check - main	0.0	-0.04	<0.15 SLPM	-0.05
Leak Check - aux	0.0	0.09	<0.15 SLPM	0.08
Ko Factor (w/o filter)	measured		filter weight (g)	
Ko Factor (w/ filter)	measured		% Ko difference	N/A

Notes: Rebuilt pump vacuum 19"Hg.  
New Filter.  
Cleaned head.

Calibration Performed By: Dawn Ewan