



## Air Quality Monitoring Network for May 2007

Prepared by  
**FOCUS**  
 AMBIENT AIR MONITORING

Airshed Zone Association – May 2007 PASZA Ambient Air Report.....	2
PASZA Monthly Continuous Data Summary .....	5
PASZA - Henry Pirker - AQI Monthly Summary .....	11
PASZA - Henry Pirker - Sulphur Dioxide Monthly Summary .....	12
PASZA - Henry Pirker - Nitrogen Dioxide Monthly Summary .....	17
PASZA - Henry Pirker - Nitric Oxide Monthly Summary .....	22
PASZA - Henry Pirker - Oxides of Nitrogen Monthly Summary .....	23
PASZA - Henry Pirker - Ozone Monthly Summary .....	28
PASZA - Henry Pirker - Ozone Eight Hour Average Summary .....	33
PASZA - Henry Pirker - Carbon Monoxide Monthly Summary .....	34
PASZA - Henry Pirker - Carbon Monoxide Eight Hour Average Summary .....	39
PASZA - Henry Pirker - Total Hydrocarbons Monthly Summary .....	40
PASZA - Henry Pirker - Total Reduced Sulphur Monthly Summary .....	45
PASZA - Henry Pirker - Particulate Matter (less than 2.5 microns) Monthly Summary .....	50
PASZA - Henry Pirker - Relative Humidity Monthly Summary .....	55
PASZA - Henry Pirker - Temperature Monthly Summary .....	57
PASZA - Henry Pirker - Solar Radiation Monthly Summary .....	59
PASZA - Henry Pirker - Scalar Wind Speed Monthly Summary .....	61
PASZA - Henry Pirker - Vector Wind Speed Monthly Summary .....	62
PASZA - Henry Pirker - Wind Direction Monthly Summary .....	63
PASZA - Henry Pirker - Standard Deviation of Wind Direction Monthly Summary .....	64
PASZA - Evergreen Park - Sulphur Dioxide Monthly Summary .....	67
PASZA - Evergreen Park - Total Reduced Sulphur Monthly Summary .....	72
PASZA - Evergreen Park - Particulate Matter (less than 2.5 microns) Monthly Summary .....	77
PASZA - Evergreen Park - Temperature Monthly Summary .....	82
PASZA - Evergreen Park - Scalar Wind Speed Monthly Summary .....	84
PASZA - Evergreen Park - Vector Wind Speed Monthly Summary .....	85
PASZA - Evergreen Park - Wind Direction Monthly Summary .....	86
PASZA - Evergreen Park - Standard Deviation of Wind Direction Monthly Summary .....	87
PASZA - Smoky Heights - Sulphur Dioxide Monthly Summary .....	90
PASZA - Smoky Heights - Total Reduced Sulphur Monthly Summary .....	95
PASZA - Smoky Heights - Particulate Matter (less than 2.5 microns) Monthly Summary .....	100
PASZA - Smoky Heights - Temperature Monthly Summary .....	105
PASZA - Smoky Heights - Scalar Wind Speed Monthly Summary .....	107
PASZA - Smoky Heights - Vector Wind Speed Monthly Summary .....	108
PASZA - Smoky Heights - Wind Direction Monthly Summary .....	109
PASZA - Smoky Heights - Standard Deviation of Wind Direction Monthly Summary .....	110
PASZA - Beaverlodge - AQI Monthly Summary .....	113
PASZA - Beaverlodge - Sulphur Dioxide Monthly Summary .....	114
PASZA - Beaverlodge - Nitrogen Dioxide Monthly Summary .....	119
PASZA - Beaverlodge - Nitric Oxide Monthly Summary .....	124
PASZA - Beaverlodge - Oxides of Nitrogen Monthly Summary .....	125
PASZA - Beaverlodge - Ozone Monthly Summary .....	130
PASZA - Beaverlodge - Ozone Eight Hour Average Summary .....	135
PASZA - Beaverlodge - Particulate Matter (less than 2.5 microns) Monthly Summary .....	136
PASZA - Beaverlodge - Relative Humidity Monthly Summary .....	141
PASZA - Beaverlodge - Temperature Monthly Summary .....	143
PASZA - Beaverlodge - Scalar Wind Speed Monthly Summary .....	145



<b>PASZA - Beaverlodge - Vector Wind Speed Monthly Summary .....</b>	<b>146</b>
<b>PASZA - Beaverlodge - Wind Direction Monthly Summary .....</b>	<b>147</b>
<b>PASZA - Beaverlodge - Standard Deviation of Wind Direction Monthly Summary .....</b>	<b>148</b>
<b>PASZA - Portable-Falher - Sulphur Dioxide Monthly Summary .....</b>	<b>151</b>
<b>PASZA - Portable-Falher - Nitrogen Dioxide Monthly Summary .....</b>	<b>156</b>
<b>PASZA - Portable-Falher - Nitric Oxide Monthly Summary .....</b>	<b>161</b>
<b>PASZA - Portable-Falher - Oxides of Nitrogen Monthly Summary .....</b>	<b>162</b>
<b>PASZA - Portable-Falher - Ozone Monthly Summary .....</b>	<b>167</b>
<b>PASZA - Portable-Falher - Ozone Eight Hour Average Summary.....</b>	<b>172</b>
<b>PASZA - Portable-Falher - Total Reduced Sulphur Monthly Summary.....</b>	<b>173</b>
<b>PASZA - Portable-Falher - Relative Humidity Monthly Summary .....</b>	<b>178</b>
<b>PASZA - Portable-Falher - Temperature Monthly Summary .....</b>	<b>180</b>
<b>PASZA - Portable-Falher - Scalar Wind Speed Monthly Summary .....</b>	<b>182</b>
<b>PASZA - Portable-Falher - Vector Wind Speed Monthly Summary .....</b>	<b>183</b>
<b>PASZA - Portable-Falher - Wind Direction Monthly Summary .....</b>	<b>184</b>
<b>PASZA - Portable-Falher - Standard Deviation of Wind Direction Monthly Summary .....</b>	<b>185</b>
<b>PASZA - Valleyview - Sulphur Dioxide Monthly Summary.....</b>	<b>188</b>
<b>PASZA - Valleyview - Hydrogen Sulphide Monthly Summary .....</b>	<b>193</b>
<b>PASZA - Valleyview - Relative Humidity Monthly Summary .....</b>	<b>198</b>
<b>PASZA - Valleyview - Temperature Monthly Summary.....</b>	<b>200</b>
<b>PASZA - Valleyview - Scalar Wind Speed Monthly Summary .....</b>	<b>202</b>
<b>PASZA - Valleyview - Vector Wind Speed Monthly Summary .....</b>	<b>203</b>
<b>PASZA - Valleyview - Wind Direction Monthly Summary .....</b>	<b>204</b>
<b>PASZA - Valleyview - Standard Deviation of Wind Direction Monthly Summary .....</b>	<b>205</b>
<b>PASZA Passive Stations for May 2007 .....</b>	<b>208</b>
<b>May 2007 Calibration Reports .....</b>	<b>219</b>



P.O. Box 21135  
Grande Prairie, AB  
T8V 6W7  
Phone: (780) 539-2298

June 28, 2007

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) – May 2007 Ambient Air Report**

---

Enclosed is the PASZA Ambient Monitoring Network Report for the month of **May 2007**.

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

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

During the month of May the following events were noted:

**Henry Pirker Station:**

- ◆ New SO<sub>2</sub>, TRS and O<sub>3</sub> TECO analyzers were installed during the month of May.
- ◆ The CO spans dropped after the calibration on the 9<sup>th</sup>, due to the regulator pressure. On May 15<sup>th</sup>, 16<sup>th</sup> and 17<sup>th</sup> spans drop and then increase on 18<sup>th</sup> reason unknown.
- ◆ Maintenance activity on May 14<sup>th</sup> resulted in one (1) hour of invalid data.
- ◆ A power failure on May 17<sup>th</sup> resulted in one (1) hour of invalid data.
- ◆ All analyzers / sensors at the Henry Pirker station were above 90% uptime.
- ◆ The AQI for the month resulted in 682 hours of Good readings and 20 hours of Fair readings.

**Evergreen Park Station:**

- ◆ On May 3<sup>rd</sup> there was a TRS reading of 9.9 ppb at 00:00 - 01:00, the wind speed was 4 km/hr and the wind direction was from the northeast (NE).
- ◆ The wind speed sensor had one (1) hours of invalid data on May 24<sup>th</sup> due to cups freezing from rain and snow).
- ◆ On May 27<sup>th</sup> there were three (3) hours of invalid data due to power failures.
- ◆ All analyzers / sensors at the Evergreen Park station were above 90% uptime.

**Smoky Heights Station:**

- ◆ All analyzers / sensors at the Smoky Heights station operated at 100% uptime.

**Beaverlodge Station:**

- ◆ On May 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> spans from the NO<sub>x</sub> analyzer increased, a calibration was performed on May 4<sup>th</sup> and spans stabilized.
- ◆ On May 31<sup>st</sup> the NO<sub>x</sub> analyzer had fifteen (15) hours of invalid data due to a degraded O-ring. It was replaced on June 1<sup>st</sup>.
- ◆ All analyzers / sensors at the Beaverlodge station were above 90% uptime.

- ◆ The AQI for the month resulted in 647 hours of Good readings and 49 hours of Fair readings.

**Portable - Falher Station:**

- ◆ On May 2<sup>nd</sup> there was a TRS reading of 10.6 ppb at 22:00 - 23:00 hour, the wind speed was 5 km/hr and the wind direction was from the southeast (SE).
- ◆ A second calibration was performed on the SO<sub>2</sub> and TRS analyzers due to calibrator issues, which were resolved prior to the start of the second calibration.
- ◆ All analyzers / sensors at the Falher station operated at 100% uptime.

**Valleyview Station:**

- ◆ Both the SO<sub>2</sub> & H<sub>2</sub>S analyzers show a steady increase in spans throughout the month due to new perm tubes and new ovens.
- ◆ All analyzers / sensors at the Valleyview station operated at 100% uptime.

**Passive Monitoring: 42 Stations throughout the PASZA zone:**

There were no outstanding issues from the field notes for the month of May. There were five duplicate sites sampled in the month of May; Steeprock Creek, Hythe, Sylvester, Beaverlodge and Grande Prairie HP. An NO<sub>2</sub> duplicate sample from Beaverlodge was damaged in the lab and consequently there was no result for that sample. The passive sample analyses were performed by MAXXAM Analytics Inc.

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 0.3 ppb, with a mean of 0.2 ppb.
- Monthly average concentrations for NO<sub>2</sub> passives ranged from 0.1 ppb to 4.0 ppb, with a mean of 0.7 ppb.
- Monthly average concentrations for O<sub>3</sub> passives ranged from 27.9 ppb to 43.8 ppb, with a mean of 34.7 ppb.

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

On Behalf of the,  
Peace Airshed Zone Association



Michael Bisaga  
PASZA Program Manager



Sharon Whiteley, B.Sc..  
AQM Data Specialist

## PASZA Monthly Continuous Data Summary

May-2007 Peace Airshed Zone Association							Maximum Recorded Values						Operational Time (%)
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		Conc	1-hr		24-hr / 8-hr			
	1-hr	24-hr			1-hr	24-hr		Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	
SO <sub>2</sub> (ppb)	172	57	Henry Pirker	0.1	0	0	1.3	May-24 00:00	8.1	ESE	0.4	May-02	97.2%
SO <sub>2</sub> (ppb)	172	57	Evergreen Park	0.3	0	0	7.3	May-16 08:00	15.1	W	1.0	May-16	99.6%
SO <sub>2</sub> (ppb)	172	57	Smoky Heights	0.3	0	0	5.7	May-05 22:00	16.5	WSW	0.7	May-23	100.0%
SO <sub>2</sub> (ppb)	172	57	Beaverlodge	0.2	0	0	2.0	May-22 00:00	7.1	NE	0.6	May-02	100.0%
SO <sub>2</sub> (ppb)	172	57	Portable-Falher	0.2	0	0	2.7	May-11 15:00	7.0	S	0.7	May-11	100.0%
SO <sub>2</sub> (ppm)	172	57	Valleyview	0.21	0	0	5.65	May-06 21:00	13.2	W	1.15	May-07	100.0%
NO (ppb)			Henry Pirker	1.6	-	-	35.9	May-10 07:00	3.9	SE	7.4	May-24	99.7%
NO <sub>2</sub> (ppb)	212	106	Henry Pirker	7.4	0	0	37.0	May-11 22:00	4.8	SSE	12.3	May-10	99.7%
NO <sub>x</sub> (ppb)			Henry Pirker	9.0	-	-	58.9	May-10 07:00	3.9	SE	18.1	May-24	99.7%
NO (ppb)			Beaverlodge	0.1	-	-	4.4	May-01 08:00	4.8	NW	0.5	May-11	98.0%
NO <sub>2</sub> (ppb)	212	106	Beaverlodge	1.9	0	0	16.0	May-11 05:00	4.1	N	3.7	May-11	98.0%
NO <sub>x</sub> (ppb)			Beaverlodge	2.0	-	-	19.3	May-11 05:00	4.1	N	4.2	May-11	98.0%
NO (ppb)			Portable-Falher	0.2	-	-	4.6	May-28 00:00	4.8	SE	1.0	May-29	100.0%
NO <sub>2</sub> (ppb)	212	106	Portable-Falher	2.0	0	0	24.6	May-31 22:00	6.6	SE	5.1	May-31	100.0%
NO <sub>x</sub> (ppb)			Portable-Falher	2.1	-	-	28.5	May-31 22:00	6.6	SE	5.6	May-31	100.0%
O <sub>3</sub> (ppb)	82		Henry Pirker	31.6	0	-	57.3	May-30 13:00	7.9	SSE	45.0	May-17	99.7%
O <sub>3</sub> (ppb) - 8-hr		65	Henry Pirker			0					51.2	May-25	
O <sub>3</sub> (ppb)	82		Beaverlodge	36.4	0	-	57.6	May-05 20:00	31.3	W	46.5	May-17	100.0%
O <sub>3</sub> (ppb) - 8-hr		65	Beaverlodge			0					55.4	May-15	
O <sub>3</sub> (ppb)	82		Portable-Falher	31.9	0	-	57.5	May-15 18:00	12.4	SSE	44.1	May-06	100.0%
O <sub>3</sub> (ppb) - 8-hr		65	Portable-Falher			0					55.5	May-15	
CO (ppm)	13		Henry Pirker	0.21	0	-	0.8	May-26 02:00	5.9	SE	0.3	May-10	99.7%
CO (ppm) - 8-hr		5	Henry Pirker			0					0.5	May-26	
THC (ppm)			Henry Pirker	2.08	-	-	3.1	May-26 05:00	6.0	SW	2.3	May-26	99.7%
TRS (ppb)			Henry Pirker	0.3	-	-	4.6	May-26 03:00	6.9	SE	1.0	May-26	97.0%
TRS (ppb)			Evergreen Park	0.8	-	-	9.9	May-03 00:00	7.4	NW	2.3	May-04	99.6%
TRS (ppb)			Smoky Heights	0.5	-	-	1.3	May-25 00:00	4.2	WNW	0.7	May-11	100.0%
TRS (ppb)			Portable-Falher	0.7	-	-	10.6	May-02 22:00	5.4	SE	1.6	May-14	100.0%
H <sub>2</sub> S (ppb)	10	3	Valleyview	0.0	0	0	1.2	May-31 22:00	2.1	NNW	0.2	May-31	100.0%
PM <sub>2.5</sub> (µg/m <sup>3</sup> )		30 <sup>a</sup>	Henry Pirker	3.7	0	0	32.8	May-26 02:00	5.9	SE	8.9	May-30	99.7%
PM <sub>2.5</sub> (µg/m <sup>3</sup> )		30 <sup>a</sup>	Evergreen Park	4.4	0	0	60.0	May-31 23:00	2.7	ENE	14.0	May-16	99.6%
PM <sub>2.5</sub> (µg/m <sup>3</sup> )		30 <sup>a</sup>	Smoky Heights	2.9	0	0	42.5	May-30 19:00	5.1	NW	8.9	May-31	100.0%
PM <sub>2.5</sub> (µg/m <sup>3</sup> )		30 <sup>a</sup>	Beaverlodge	2.9	0	0	13.4	May-15 19:00	11.1	E	7.4	May-16	98.3%

## PASZA Monthly Continuous Data Summary - continued

May-2007		Peace Airshed Zone Association					Maximum Recorded Values						
							1-hr			24-hr / 8-hr			
RH (%)		Henry Pirker	59.7	-	-	-	-	-	-	-	-	-	99.7%
RH (%)		Beaverlodge	56.2	-	-	-	-	-	-	-	-	-	100.0%
RH (%)		Portable-Falher	62.0	-	-	-	-	-	-	-	-	-	100.0%
RH (%)		Valleyview	60.1	-	-	-	-	-	-	-	-	-	100.0%
SR (W/m <sup>2</sup> )		Henry Pirker	71.9	-	-	-	-	-	-	-	-	-	99.7%
Temp (°C)		Henry Pirker	10.4	-	-	-	-	-	-	-	-	-	99.7%
Temp (°C)		Evergreen Park	10.0	-	-	-	-	-	-	-	-	-	99.6%
Temp (°C)		Smoky Heights	10.1	-	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Beaverlodge	10.1	-	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Portable-Falher	10.4	-	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Valleyview	10.1	-	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)		Henry Pirker	12.4	-	-	42.9	May-05 11:00	42.9	WSW	27.5	May-05	99.1%	
WSPD v (km/hr)		Evergreen Park	8.3	-	-	37.1	May-06 13:00	37.1	W	18.6	May-05	99.5%	
WSPD v (km/hr)		Smoky Heights	13.0	-	-	50.6	May-06 12:00	50.6	WSW	29.9	May-05	100.0%	
WSPD v (km/hr)		Beaverlodge	10.0	-	-	42.5	May-06 11:00	42.5	W	25.8	May-05	100.0%	
WSPD v (km/hr)		Portable-Falher	12.1	-	-	48.8	May-06 14:00	48.8	W	24.3	May-05	100.0%	
WSPD v (km/hr)		Valleyview	7.0	-	-	25.9	May-05 12:00	25.9	WNW	15.9	May-05	100.0%	
WSPD s (km/hr)		Henry Pirker	13.3	-	-	43.1	May-05 11:00	43.1	WSW	28.4	May-05	99.1%	
WSPD s (km/hr)		Evergreen Park	9.0	-	-	37.6	May-06 13:00	37.6	W	19.1	May-05	99.5%	
WSPD s (km/hr)		Smoky Heights	13.6	-	-	50.9	May-06 12:00	50.9	WSW	31.0	May-05	100.0%	
WSPD s (km/hr)		Beaverlodge	10.4	-	-	42.8	May-06 11:00	42.8	W	26.7	May-05	100.0%	
WSPD s (km/hr)		Portable-Falher	12.6	-	-	49.0	May-06 14:00	49.0	W	25.8	May-05	100.0%	
WSPD s (km/hr)		Valleyview	7.3	-	-	26.2	May-05 12:00	26.2	WNW	17.0	May-05	100.0%	
WDIR		Henry Pirker	W	-	-	-	-	-	-	-	-	99.7%	
WDIR		Evergreen Park	WNW	-	-	-	-	-	-	-	-	99.5%	
WDIR		Smoky Heights	W	-	-	-	-	-	-	-	-	100.0%	
WDIR		Beaverlodge	WNW	-	-	-	-	-	-	-	-	100.0%	
WDIR		Portable-Falher	WSW	-	-	-	-	-	-	-	-	100.0%	
WDIR		Valleyview	WNW	-	-	-	-	-	-	-	-	100.0%	

Note: <sup>a</sup> the draft 24-hr Alberta Ambient Air Quality Objective

# Continuous Network Equipment Summary

## PASZA – Henry Pirker Station

### General Station Issues

Routine calibrations were performed on: May 8<sup>th</sup> (NO<sub>x</sub>), May 9<sup>th</sup> (CO) and on May 10<sup>th</sup> (THC). Removal calibrations for TRS, SO<sub>2</sub> and O<sub>3</sub> were performed on May 9<sup>th</sup>. Installation calibrations for TRS and SO<sub>2</sub> were performed on May 10<sup>th</sup> and the installation calibration for O<sub>3</sub> was performed on May 14<sup>th</sup>. On May 14<sup>th</sup> maintenance activity resulted in one (1) hour of invalid data for all parameters. On May 17<sup>th</sup> a power failure resulted in one (1) hour of invalid data for all parameters.

Parameter	Make	Model	Notes
SO <sub>2</sub>	TECO	43	New TECO analyzer was installed on May 10 <sup>th</sup> .
NO <sub>x</sub> /NO/NO <sub>2</sub>	TECO	42C	No operational problems observed.
O <sub>3</sub>	API	400	The API analyzer was replaced with a TECO 49.
CO	TECO	48C	Regulator pressure caused the spans to drop after calibration- pressure was increased. On May 15 <sup>th</sup> , 16 <sup>th</sup> and 17 <sup>th</sup> spans drop and then increase on 18 <sup>th</sup> reason unknown
THC	TEI	51-CLT	No operational problems observed.
TRS	TEI	42C	New TECO analyzer was installed on May 10 <sup>th</sup> .
PM <sub>2.5</sub>	R&P	1400AB	No 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	A total of five (5) hours of invalid data – due to cups freezing (rain & snow).
WD	Met One	020C	No operational problems observed.

## PASZA – Evergreen Park Station

### General Station Issues

Calibrations were performed on May 3<sup>rd</sup> (SO<sub>2</sub>, TRS). On May 27<sup>th</sup> there were three (3) hours of invalid data due to power failures for all parameters.

Parameter	Make	Model	Notes
SO <sub>2</sub>	API	100	Other than the above mentioned power failures there were no operational problems observed.
TRS	TEI	42C	Other than the above mentioned power failures there were no operational problems observed.
PM <sub>2.5</sub>	R&P	1400AB	Other than the above mentioned power failures there were no operational problems observed.
AT	Met One	083D	Other than the above mentioned power failures there were no operational problems observed.
WS	Met One	010C	On May 24 <sup>th</sup> the wind speed sensor had one (1) hour of invalid data – due to cups freezing (rain & snow).
WD	Met One	020C	Other than the above mentioned power failures there were no operational problems observed.

---



---

**PASZA – Smoky Heights Station**


---

**General Station Issues**

Calibrations were performed on May 31<sup>st</sup> (SO<sub>2</sub>, TRS).

Parameter	Make	Model	Notes
SO <sub>2</sub>	API	100A	No operational problems observed.
TRS	TEI	42C	No operational problems observed.
PM <sub>2.5</sub>	R&P	1400AB	No operational problems observed.
AT	Met One	083D	No operational problems observed.
WS	Met One	010C	No operational problems observed.
WD	Met One	020C	No operational problems observed.

---



---

**PASZA – Beaverlodge Station**


---

**General Station Issues**

Calibrations were performed on May 4<sup>th</sup> (NO<sub>x</sub>) and May 29<sup>th</sup> (SO<sub>2</sub>, O<sub>3</sub> and TEOM).

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	On May 2 <sup>nd</sup> , 3 <sup>rd</sup> and 4 <sup>th</sup> spans from the NO <sub>x</sub> analyzer increased, a calibration was performed on May 4 <sup>th</sup> and spans stabilized. On May 31 <sup>st</sup> the NO <sub>x</sub> analyzer had fifteen (15) hours of invalid data due a degraded O-ring. It was replaced on June 1 <sup>st</sup> .
O <sub>3</sub>	API	400	No operational problems observed.
PM <sub>2.5</sub>	R&P	1400AB	Fifteen (15) hours were removed due to excessive baseline drift.
AT	n/a	n/a	No operational problems observed.
RH	n/a	n/a	No operational problems observed.
WS	Blue Sky	857	There were five (5) hours of calm observed. No other operational problems observed.
WD	Blue Sky	857	No operational problems observed.

---



---

**PASZA – Falher (Portable) Station**

---

**General Station Issues**

Calibrations were performed on May 23<sup>rd</sup> (SO<sub>2</sub>, TRS, and NO<sub>x</sub>), and May 24<sup>th</sup> (SO<sub>2</sub>, TRS, and O<sub>3</sub>).

Parameter	Make	Model	Notes
SO <sub>2</sub>	TEI	43C	A second calibration was performed on the SO <sub>2</sub> and TRS analyzers due to calibrator issues, which were resolved prior to the start of the second calibration.
NO <sub>x</sub> /NO/NO <sub>2</sub>	TECO	43C	No operational problems observed.
TRS	TEI	43C	A second calibration was performed on the SO <sub>2</sub> and TRS analyzers due to calibrator issues, which were resolved prior to the start of the second calibration.
O <sub>3</sub>	TEI	49C	No operational problems observed.
AT	Gill Met Pak 3		No operational problems observed.
RH	Gill Met Pak 3		No operational problems observed.
WS	Gill Met Pak 3		No operational problems observed.
WD	Gill Met Pak 3		No operational problems observed.

---



---

**PASZA – Valleyview Station**

---

**General Station Issues**

Calibrations were performed on May 2<sup>nd</sup> for SO<sub>2</sub> and H<sub>2</sub>S.

Parameter	Make	Model	Notes
SO <sub>2</sub>	ML	332	Increase in spans throught out month due to new perm tubes and new ovens.
H <sub>2</sub> S	TEI	43C	Increase in spans throught out month due to new perm tubes and new ovens.
AT	Gill Met Pak 3		No operational problems observed.
RH	Gill Met Pak 3		No operational problems observed.
WS	Gill Met Pak 3		No operational problems observed.
WD	Gill Met Pak 3		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: May 1, 2007 to June 1, 2007

**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:	682
Number of 1-hr Fair Readings:	20
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

**Status Flag Characters**

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

Day	Mountain Standard Time																							
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-May-07	10	5	6	6	3	3	6	7	7	8	17	19	19	21	N	21	21	21	20	17	15	16	16	16
2-May-07	16	15	15	15	15	14	12	14	15	17	18	19	19	N	18	17	16	17	15	14	12	15	15	14
3-May-07	15	15	15	14	15	13	11	13	14	12	16	17	N	16	13	13	15	14	14	15	15	15	17	15
4-May-07	14	14	14	13	11	10	15	15	16	15	14	N	12	12	11	11	11	10	10	11	10	12	12	13
5-May-07	13	13	13	14	14	14	16	17	19	19	N	21	21	21	23	25	25	24	23	22	21	24	22	21
6-May-07	18	16	17	21	19	15	12	17	21	N	23	23	24	23	22	23	22	22	22	22	21	22	22	21
7-May-07	20	21	20	21	20	17	17	19	N	19	19	17	16	14	12	12	12	12	12	11	11	11	9	
8-May-07	9	9	7	10	8	7	6	N	7	10	11	14	14	15	16	16	17	15	15	15	16	19	19	19
9-May-07	18	16	17	18	18	N	16	16	17	N	N	N	N	N	14	16	15	17	17	17	12	8	5	5
10-May-07	8	9	8	6	4	N	6	5	6	9	14	16	19	20	21	22	22	22	22	21	13	10	9	10
11-May-07	11	10	7	8	8	N	7	9	13	17	19	20	22	22	24	22	23	23	23	21	18	11	18	16
12-May-07	9	22	22	24	N	22	21	19	22	22	23	24	23	23	23	22	22	22	22	22	20	17	18	16
13-May-07	17	17	17	N	11	14	16	17	19	20	22	24	24	25	25	25	25	24	21	19	18	15	9	
14-May-07	10	7	N	6	8	12	7	10	14	17	20	23	N	3	2	N	2	28	26	23	20	18	18	16
15-May-07	18	15	11	7	6	N	6	9	9	13	19	22	22	23	24	25	25	24	22	19	17	17	18	18
16-May-07	16	17	14	11	N	15	15	10	12	19	22	23	23	24	24	24	24	25	22	20	20	21	21	
17-May-07	22	22	21	N	22	21	19	22	23	24	N	N	24	25	27	28	27	26	23	25	25	18	15	15
18-May-07	15	14	14	14	13	N	10	9	10	10	9	10	10	11	11	13	14	13	12	12	11	11	12	11
19-May-07	11	11	11	10	N	8	8	7	7	8	9	12	15	17	19	23	23	21	19	18	21	19	18	19
20-May-07	19	20	19	N	15	14	14	16	17	18	19	19	18	17	16	17	17	17	17	17	14	12	10	12
21-May-07	11	12	N	8	8	8	8	10	14	17	19	19	21	22	22	23	23	23	22	19	17	19	17	16
22-May-07	13	N	9	7	8	7	8	10	13	15	17	16	17	20	22	23	22	21	21	21	18	16	18	17
23-May-07	N	11	13	15	16	16	15	15	17	18	17	16	16	15	14	16	15	14	16	14	12	7	6	N
24-May-07	6	5	4	4	3	4	5	6	8	14	18	19	21	23	24	24	25	25	25	23	18	14	N	15
25-May-07	14	14	10	6	6	5	9	14	17	19	20	23	24	25	26	27	26	27	27	25	21	N	16	17
26-May-07	16	19	26	17	14	13	12	13	17	18	21	24	26	25	26	26	25	24	22	21	N	16	14	15
27-May-07	15	18	19	20	19	17	18	20	22	22	22	21	21	21	20	21	20	21	21	N	18	18	14	11
28-May-07	14	16	17	17	15	14	14	15	15	16	16	15	15	16	15	15	15	15	N	16	14	6	5	6
29-May-07	7	5	5	5	6	7	10	12	12	13	17	20	21	21	22	22	22	N	19	18	14	13	13	9
30-May-07	15	10	8	5	6	7	8	9	14	17	18	22	27	31	31	28	N	23	22	20	17	18	12	12
31-May-07	14	12	8	9	6	12	18	14	16	22	23	24	24	25	25	N	26	25	25	24	19	13	11	14

# PASZA - Henry Pirker - Sulphur Dioxide Monthly Summary

Station: Henry Pirker  
Station Owner: PASZA

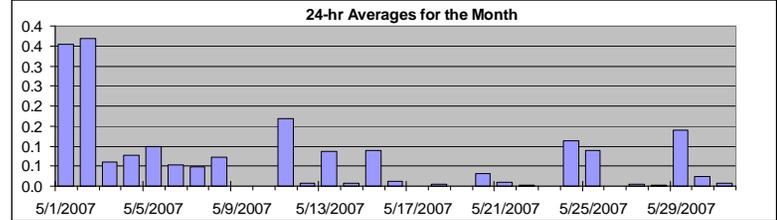
## HOURLY AVERAGE TABLE

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

Monitoring Dates: May 1, 2007 to June 1, 2007

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:	1.3 ppb 25-May 0:00 1:00
Maximum 24-hr Average:	0.4 ppb 2-May



AIC Time:	36 hrs	Operational Time:	679 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	97.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.7	0.4	0.1	0.0	0.0	0.0	0.0	0.1 ppb	0.0 ppb

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-May-07	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	A	0	0	0	0	1	1	0	0	0	0	0.4	0.8
2-May-07	1	0	0	0	0	0	0	0	1	1	1	1	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0.4	1.2
3-May-07	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
4-May-07	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
5-May-07	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
6-May-07	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
7-May-07	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	
8-May-07	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
9-May-07	0	0	0	0	0	A	0	0	0	0	C	C	C	C	C	A	S	S	S	S	S	S	S	S	S	N	0.2	
10-May-07	S	S	S	S	S	S	S	S	S	S	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	N	0.0	
11-May-07	0	0	0	0	0	A	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8	
12-May-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	
13-May-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
14-May-07	0	0	A	0	0	0	0	0	0	0	0	0	A	0	0	M	0	0	0	0	0	0	0	0	0	0.0	0.1	
15-May-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
16-May-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	
17-May-07	0	0	0	A	0	0	0	0	0	0	0	P	A	A	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
18-May-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	
19-May-07	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	
20-May-07	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	
21-May-07	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	
22-May-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
23-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.0	0.0	
24-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0.1	1.2	
25-May-07	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.1	1.3	
26-May-07	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	0.0	
27-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.0	0.1	
28-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.0	0.0	
29-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	A	0	0	0	0	0	0	0	0.1	1.0	
30-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.0	0.3	
31-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.0	0.1	
Hourly Avg	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.1	
Hourly Max	1.3	0.5	0.4	0.4	0.3	0.3	0.4	0.6	0.5	0.8	0.7	0.6	0.8	1.0	0.5	0.3	0.5	0.4	0.5	0.7	0.8	0.4	0.3	1.2				

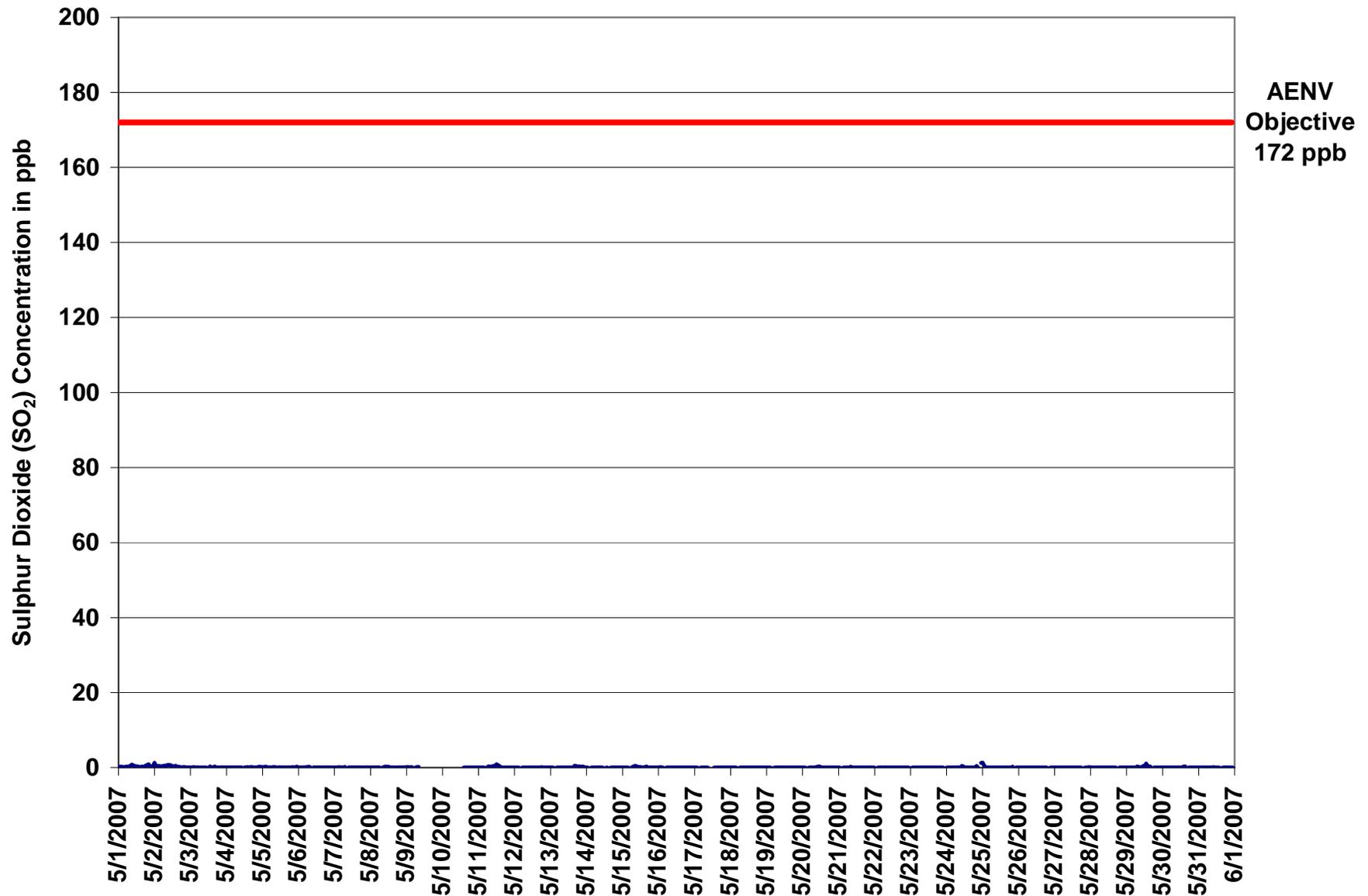


Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

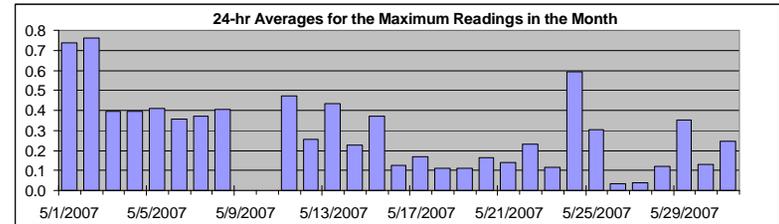
**Sulphur Dioxide (SO<sub>2</sub>)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	2.8	ppb	24-May	23:00 0:00
Maximum 24-hr Value:	0.8	ppb	2-May	

AIC Time:	36 hrs	Operational Time:	679 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	97.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.5	0.9	0.4	0.3	0.0	0.0	0.0	0.3 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	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-May-07	0	0	1	1	0	0	1	1	1	1	1	1	1	1	A	1	1	1	1	1	2	1	1	1	0.7	1.5	
2-May-07	3	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0	1	1	1	0	0	0	0	0	0.8	2.7	
3-May-07	0	0	1	0	0	0	0	0	0	0	0	0	A	1	0	1	1	0	0	0	0	0	0	0	0.4	1.0	
4-May-07	0	0	0	0	0	0	0	0	1	0	0	A	0	0	0	0	1	0	0	0	0	1	0	0	0.4	0.6	
5-May-07	0	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	
6-May-07	0	0	0	0	0	0	0	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6	
7-May-07	0	0	0	1	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.9	
8-May-07	0	0	0	0	0	0	0	A	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6	
9-May-07	0	0	0	0	0	A	0	0	1	C	C	C	C	C	A	S	S	S	S	S	S	S	S	S	N	0.5	
10-May-07	S	S	S	S	S	S	S	S	S	S	C	C	C	A	0	0	0	0	0	0	0	0	0	0	N	0.3	
11-May-07	0	0	0	0	0	A	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0.5	1.4	
12-May-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.3	1.2	
13-May-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.4	1.4	
14-May-07	0	0	A	0	0	0	0	0	0	0	1	0	A	0	0	M	0	0	0	0	0	0	0	0	0.2	0.5	
15-May-07	0	0	0	0	0	A	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.4	0.9	
16-May-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
17-May-07	0	0	0	A	0	0	0	0	0	0	P	A	A	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
18-May-07	0	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
19-May-07	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	
20-May-07	0	0	0	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6	
21-May-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
22-May-07	0	A	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0.2	0.8	
23-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.2	
24-May-07	0	0	0	0	0	0	0	0	0	0	2	1	0	1	0	1	0	0	0	1	2	0	A	3	0.6	2.8	
25-May-07	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	A	0	0	0.3	2.3	
26-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.0	0.2	
27-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.0	0.5	
28-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.1	0.5	
29-May-07	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	A	0	0	0	0	0	0	0	0.4	1.4	
30-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	A	0	0	0	0	0	0	0	0.1	0.8	
31-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.2	0.4	
Hourly Avg	0.4	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.3		
Hourly Max	2.7	1.7	0.6	0.7	0.5	0.6	0.8	0.9	1.0	1.3	1.7	1.3	1.4	1.4	1.0	0.8	1.4	0.9	1.2	1.3	1.8	0.6	0.5	2.8			

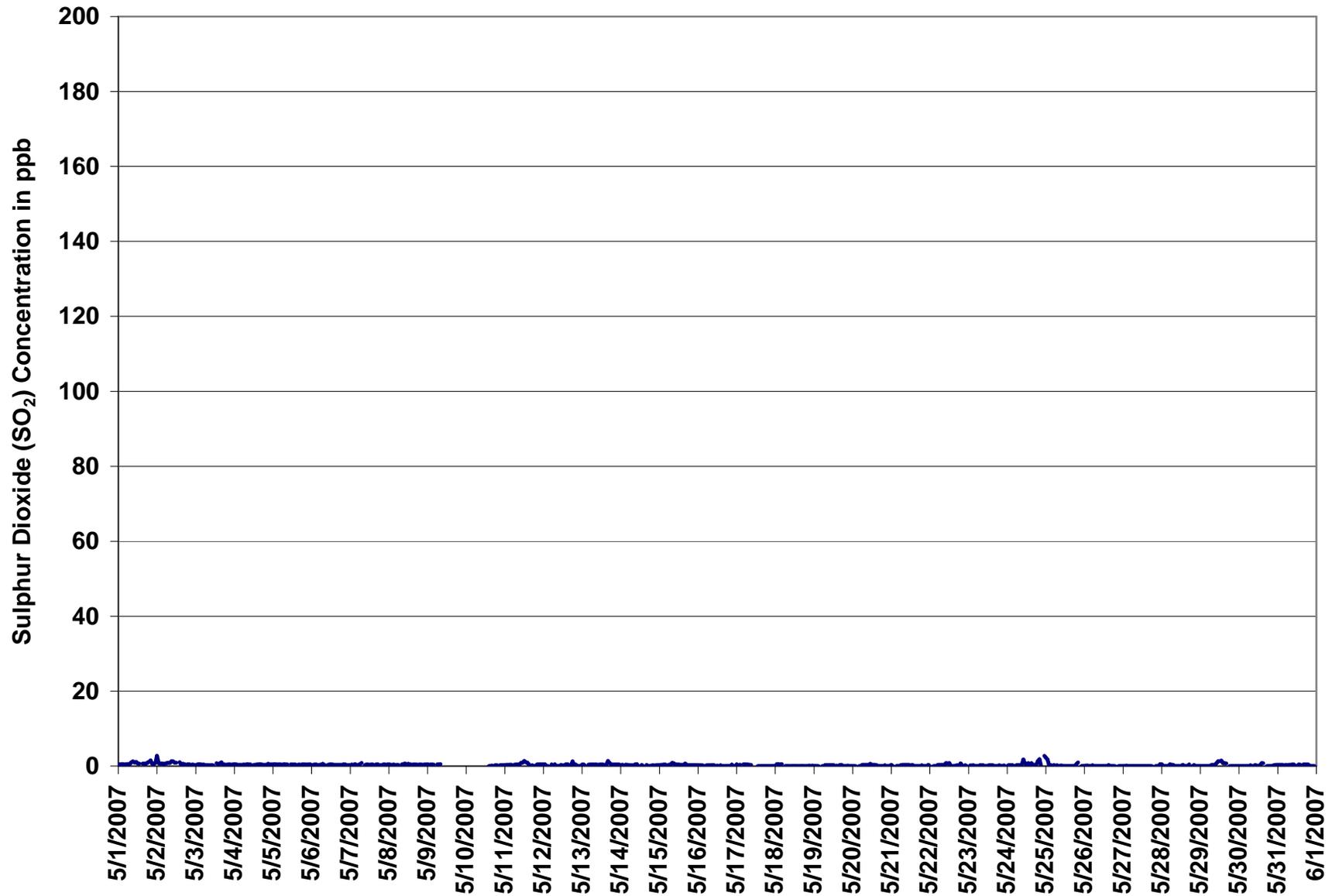
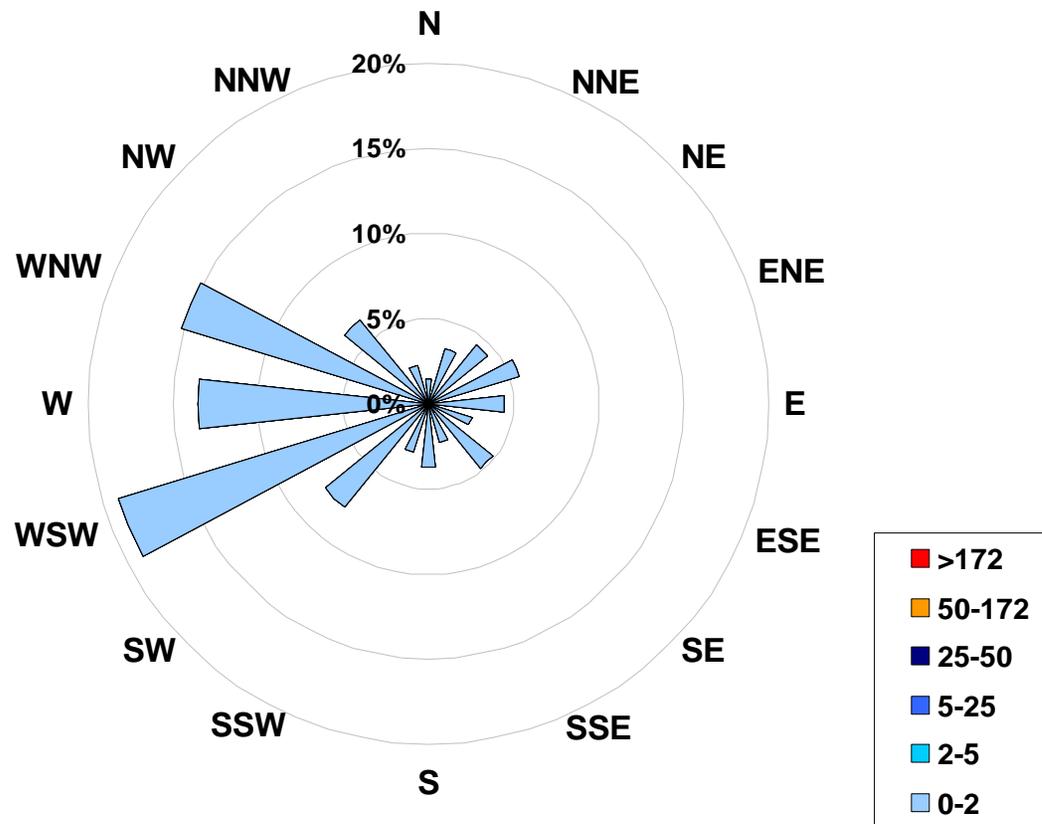


Figure 2. PASZA - Henry Pirker Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Henry Pirker Site for May 2007**



**Calms: 0%**

Frequency Distribution of SO <sub>2</sub> in ppb			
Range			Frequency (hrs)
0.0	<	2	679
2	to	5	0
5	to	25	0
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			679

# PASZA - Henry Pirker - Nitrogen Dioxide Monthly Summary

Station: Henry Pirker  
Station Owner: PASZA

## HOURLY AVERAGE TABLE

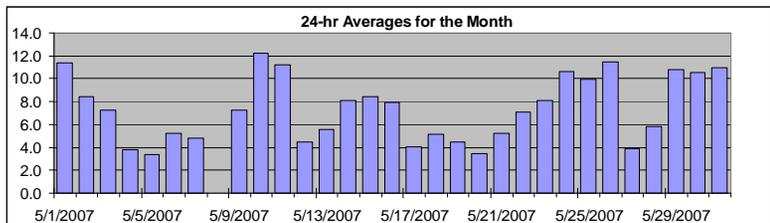
## Nitrogen Dioxide (NO<sub>2</sub>)

Monitoring Dates: May 1, 2007 to June 1, 2007

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:	37.0	ppb	11-May	22:00	23:00
Maximum 24-hr Average:	12.3	ppb	10-May		



AIC Time:	33 hrs		Operational Time:	704 hrs	
Calibration Time:	5 hrs		AMD Operational Uptime:	99.7%	
Percentile	99	95	75	50	25
	28.1	20.5	9.3	5.3	3.5
				2.1	1.6
				Average	Median
				7.4 ppb	5.3 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	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-May-07	25	22	23	18	12	13	17	12	17	18	6	4	4	3	A	5	5	4	7	11	14	9	7	7	11.4	25.3
2-May-07	5	5	6	5	6	8	12	10	7	6	6	6	7	A	7	8	10	7	11	11	16	11	11	11	8.4	15.5
3-May-07	8	7	6	6	5	8	12	12	9	10	8	6	A	8	12	10	6	5	7	7	4	4	3	4	7.2	12.3
4-May-07	3	3	3	3	3	4	4	5	3	3	A	4	4	4	4	5	6	5	4	4	4	3	3	3	3.8	5.8
5-May-07	2	2	2	2	2	3	3	3	4	4	A	4	3	3	3	3	3	3	3	4	5	5	6	6	3.4	5.8
6-May-07	8	9	8	3	4	11	19	8	4	A	5	4	4	3	3	3	4	3	3	3	4	3	3	3	5.2	18.8
7-May-07	3	2	2	3	3	7	10	7	A	6	4	5	4	5	7	7	6	4	5	4	4	4	3	5	4.8	10.2
8-May-07	5	7	9	4	7	10	13	A	12	7	C	C	C	C	C	A	9	9	9	8	9	7	5	6	N	12.6
9-May-07	5	5	4	2	3	A	6	5	5	4	4	4	5	4	5	6	8	14	7	6	10	18	20	17	7.2	20.0
10-May-07	12	8	8	10	18	A	24	23	20	15	9	6	6	5	3	3	3	3	3	5	21	29	26	22	12.3	29.2
11-May-07	11	9	11	7	9	A	20	23	13	6	4	4	4	6	5	4	4	4	3	6	11	28	37	29	11.2	37.0
12-May-07	12	2	2	1	A	5	6	7	4	3	4	4	3	3	3	3	3	3	4	4	6	9	6	7	4.5	11.5
13-May-07	5	4	4	A	15	12	8	7	4	3	2	2	2	1	2	2	1	2	3	5	8	9	10	16	5.6	16.1
14-May-07	16	17	A	12	11	10	21	16	10	7	5	3	2	2	2	M	2	2	2	6	10	8	6	7	8.1	20.9
15-May-07	6	7	10	14	13	A	24	16	16	11	7	4	3	3	4	4	4	5	5	8	9	9	7	5	8.4	23.9
16-May-07	6	5	6	16	A	24	31	18	12	7	5	5	4	2	4	5	4	4	4	6	5	3	3	3	7.9	30.9
17-May-07	3	3	3	A	5	6	12	8	4	3	P	2	2	2	3	2	3	4	6	4	4	4	3	3	4.0	12.1
18-May-07	3	3	3	3	3	A	7	8	6	5	7	6	5	5	6	6	6	5	5	5	5	5	5	4	5.1	7.7
19-May-07	4	4	4	4	A	7	6	6	8	5	4	3	3	3	4	4	5	6	4	5	5	4	2	2	4.4	7.6
20-May-07	2	2	2	A	5	5	5	3	4	3	3	3	2	2	2	2	2	2	2	2	4	6	9	7	3.4	8.5
21-May-07	7	6	A	8	10	10	10	6	4	5	4	4	3	2	2	2	2	2	3	4	9	4	6	7	5.2	10.1
22-May-07	7	A	12	12	11	13	14	14	10	8	4	3	3	4	6	4	3	2	3	4	7	8	6	5	7.1	13.9
23-May-07	A	12	7	6	5	5	8	7	5	4	7	11	4	4	7	4	4	5	6	10	11	21	27	A	8.1	26.9
24-May-07	24	21	16	15	14	12	14	17	15	9	4	4	3	3	3	3	3	3	4	5	16	22	A	15	10.6	23.7
25-May-07	13	11	15	22	19	18	23	13	8	8	9	4	2	2	3	2	2	3	3	6	12	A	17	13	10.0	22.5
26-May-07	23	30	29	23	21	20	14	13	8	8	5	4	4	4	4	4	4	4	3	4	A	12	12	11	11.4	30.4
27-May-07	9	5	3	3	4	5	5	4	3	3	3	3	3	3	3	2	3	2	3	A	6	6	7	5	3.9	8.6
28-May-07	3	2	1	2	3	5	6	3	3	3	3	3	3	3	4	3	4	4	A	5	7	21	22	22	5.8	21.8
29-May-07	15	17	15	15	14	13	14	17	18	15	7	4	3	4	3	4	4	A	7	6	12	13	14	15	10.8	18.1
30-May-07	18	16	14	14	15	12	18	19	12	9	12	10	9	4	4	4	A	5	6	6	9	8	10	10	10.5	19.2
31-May-07	8	8	16	15	19	25	24	16	12	5	5	5	4	3	3	A	5	4	4	5	9	21	29	10	10.9	28.7
Hourly Avg	9.0	8.5	8.5	8.8	9.2	10.4	13.2	10.8	8.7	6.8	5.2	4.5	3.8	3.5	4.2	4.1	4.2	4.3	4.6	5.7	8.5	10.4	10.8	9.3		
Hourly Max	25.3	30.4	29.1	22.9	20.6	24.6	30.9	23.2	20.0	17.9	11.6	10.6	8.8	8.2	12.0	9.7	9.7	14.2	10.7	11.3	21.2	29.2	37.0	28.7		

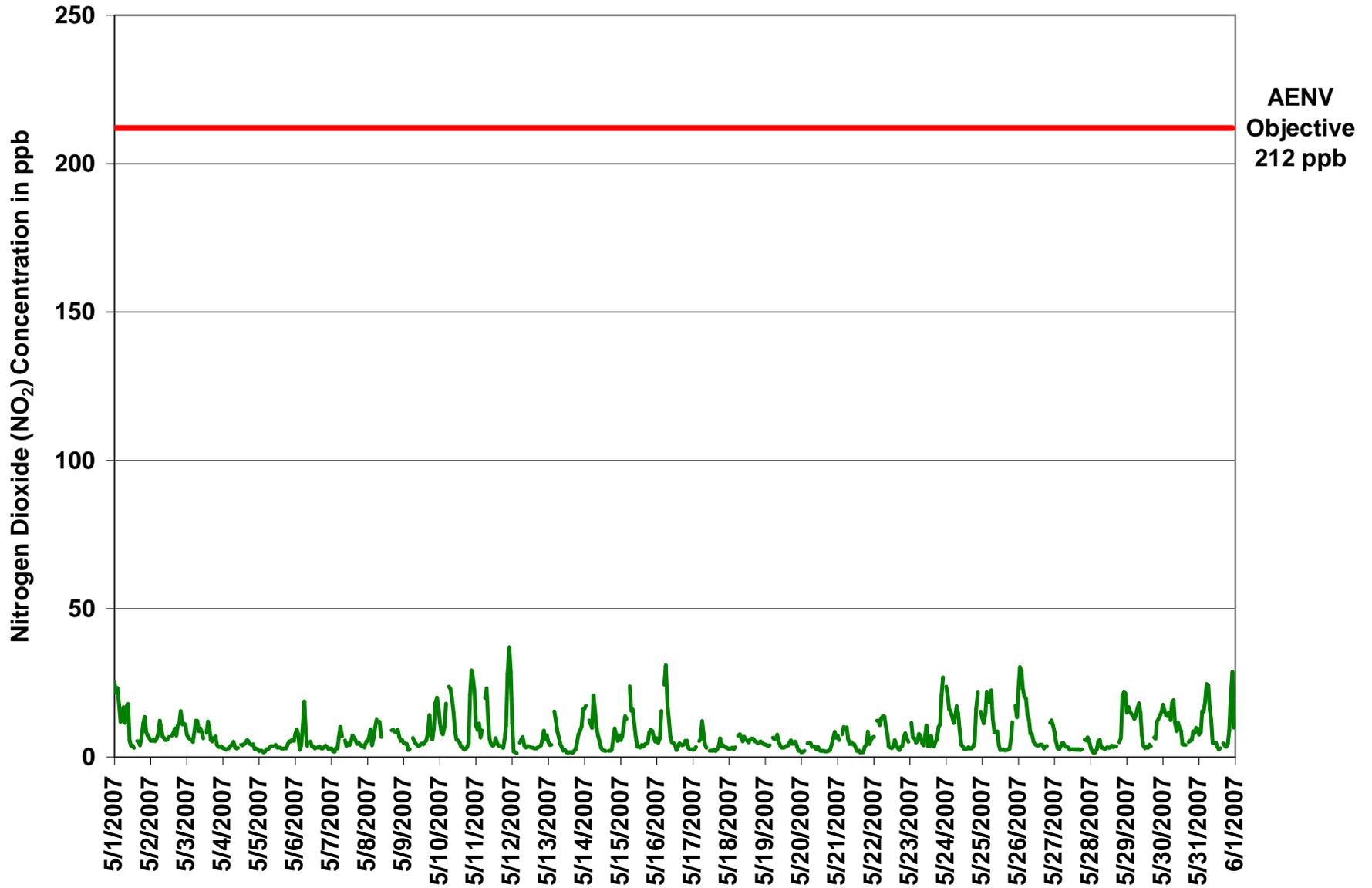


Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

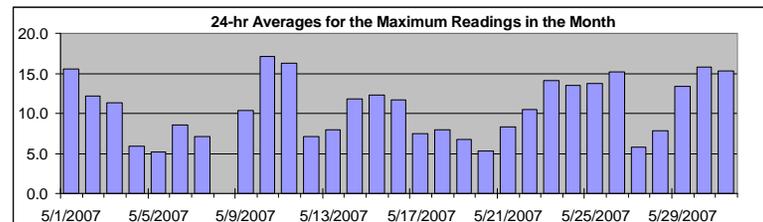
### INSTANTANEOUS (30 Second) MAXIMUM TABLE

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

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	51.5	ppb	23-May	11:00 12:00
Maximum 24-hr Value:	17.1	ppb	10-May	



**Status Flag Characters**

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

AIC Time:	33 hrs						Operational Time:	704 hrs			
Calibration Time:	5 hrs						AMD Operational Uptime:	99.7%			
Percentile	99	95	75	50	25	5	1	Average	Median		
	34.8	25.7	14.0	8.3	5.4	3.5	2.5				

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-May-07	29	25	29	24	15	17	18	16	24	24	9	7	7	8	A	8	12	6	12	25	16	12	10	9	15.6	28.6
2-May-07	8	11	10	7	9	11	17	13	11	9	9	11	11	A	10	12	13	9	16	16	20	19	14	14	12.1	20.0
3-May-07	11	10	10	12	9	14	16	19	15	15	13	9	A	12	21	16	8	8	10	14	5	5	5	5	11.3	21.0
4-May-07	4	4	4	4	4	8	7	8	6	4	5	A	5	6	6	8	9	8	9	9	9	4	3	3	5.9	8.9
5-May-07	3	3	3	2	4	4	4	5	5	4	A	6	5	5	5	4	4	4	8	9	11	10	9	5.2	11.1	
6-May-07	15	21	14	4	7	22	24	18	6	A	7	5	5	4	4	5	5	5	4	5	5	5	4	4	8.5	23.9
7-May-07	4	4	3	5	4	12	17	12	A	8	6	7	6	9	10	10	8	7	6	6	5	5	5	8	7.1	16.6
8-May-07	8	9	12	7	8	14	19	A	18	10	C	C	C	C	C	A	12	14	16	11	14	9	7	8	N	18.5
9-May-07	6	6	8	3	4	A	8	7	7	5	6	6	6	7	9	9	15	23	13	8	15	24	24	21	10.4	24.1
10-May-07	17	10	9	15	22	A	28	25	26	17	14	8	7	6	6	23	4	5	6	9	38	35	32	32	17.1	37.7
11-May-07	19	13	20	10	11	A	25	33	18	10	6	6	6	11	10	7	6	6	5	8	28	39	42	39	16.3	41.9
12-May-07	20	5	2	2	A	10	10	9	7	5	5	5	5	5	5	7	5	6	7	6	9	12	9	10	7.1	19.7
13-May-07	7	6	6	A	19	17	11	8	6	4	4	5	3	2	3	4	3	5	5	7	11	12	15	22	7.9	22.1
14-May-07	22	20	A	18	15	15	29	25	13	9	7	8	6	4	4	M	4	4	4	11	12	11	8	10	11.8	29.3
15-May-07	7	9	17	19	17	A	34	29	24	14	10	5	5	4	6	6	7	7	8	11	13	11	9	9	12.3	33.9
16-May-07	9	7	12	24	A	31	39	25	18	10	7	7	7	4	7	10	7	8	7	8	8	5	5	5	11.7	38.6
17-May-07	4	4	5	A	9	11	22	16	6	5	P	3	5	3	6	4	7	14	10	8	7	7	4	5	7.4	22.0
18-May-07	6	8	6	6	7	A	11	9	10	8	11	8	8	7	9	9	10	11	10	6	7	7	6	6	8.0	10.8
19-May-07	5	5	5	5	A	9	10	10	10	8	5	4	4	4	5	9	7	15	8	8	9	7	3	3	6.7	14.7
20-May-07	3	3	4	A	8	7	7	5	5	5	4	6	3	3	3	3	3	3	4	4	6	11	12	12	5.3	12.1
21-May-07	11	10	A	11	13	11	12	8	7	7	7	7	6	4	3	3	3	2	13	8	16	12	7	12	8.3	15.6
22-May-07	11	A	17	16	12	18	17	16	14	10	6	4	5	7	14	9	5	5	6	12	11	12	9	7	10.4	17.6
23-May-07	A	15	10	13	7	7	10	12	9	7	15	52	7	8	12	6	5	10	13	16	19	29	29	A	14.1	51.5
24-May-07	27	24	18	18	16	13	16	20	17	14	6	5	4	3	5	5	5	5	6	9	24	27	A	23	13.5	27.1
25-May-07	16	15	21	27	30	22	26	24	11	11	12	7	4	4	4	3	3	4	6	12	14	A	23	16	13.8	30.5
26-May-07	31	34	34	31	24	23	20	17	10	10	7	6	7	7	7	6	4	6	6	6	A	18	18	17	15.2	34.3
27-May-07	12	11	4	3	6	6	6	5	5	5	4	4	5	4	5	4	4	4	4	A	8	10	9	8	5.8	12.1
28-May-07	5	3	2	2	5	8	9	5	5	4	4	4	5	5	6	6	6	5	A	7	11	25	25	26	7.8	25.6
29-May-07	21	20	17	16	16	15	15	19	19	22	10	5	4	7	5	6	5	A	9	8	17	15	18	18	13.4	21.6
30-May-07	20	20	17	15	17	15	21	23	15	13	20	32	30	6	9	7	A	8	15	10	12	10	12	15	15.7	32.3
31-May-07	9	11	21	19	25	29	31	21	19	11	6	7	9	4	5	A	7	6	5	8	14	34	40	12	15.3	40.4
Hourly Avg	12.3	11.5	11.6	11.9	12.2	14.2	17.3	15.4	12.1	9.5	8.0	8.5	6.5	5.6	7.0	7.4	6.6	7.3	8.1	9.4	13.0	14.7	13.9	12.8		
Hourly Max	30.8	34.3	33.6	31.3	30.5	30.7	38.6	32.8	26.2	23.6	19.6	51.5	30.0	12.1	21.0	23.0	14.7	22.8	16.1	24.6	37.7	38.7	41.9	38.8		

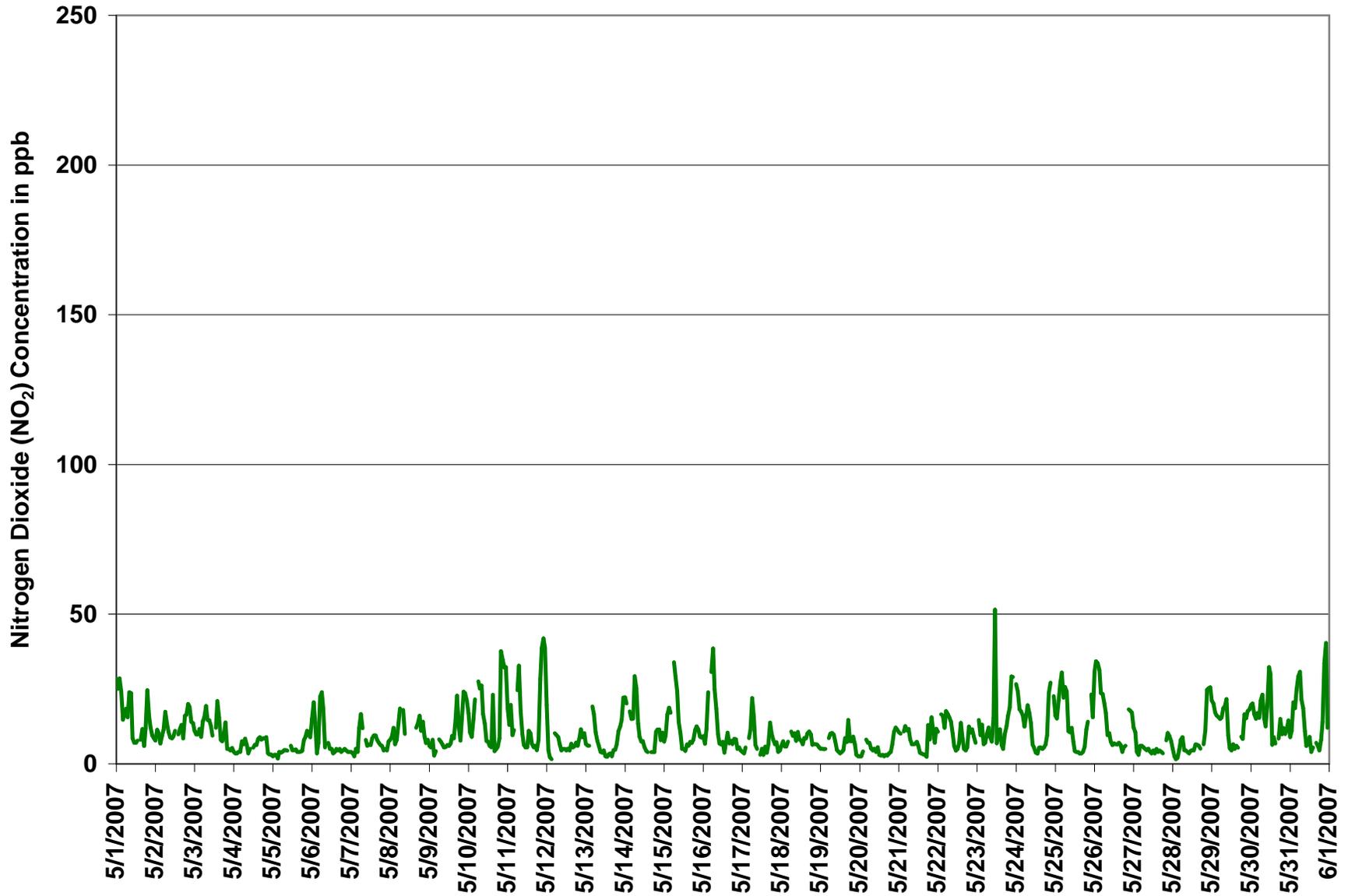
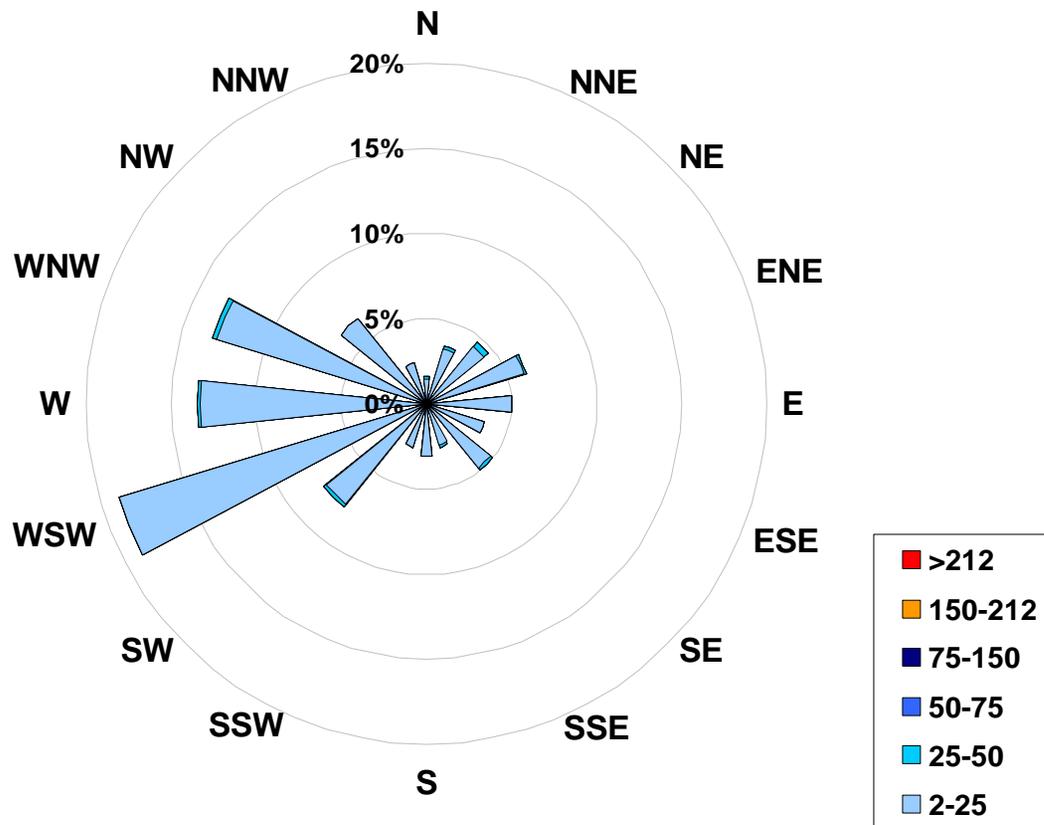


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Henry Pirker Site for May 2007**



**Calms: 0%**

Frequency Distribution of NO <sub>2</sub> in ppb			Frequency (hrs)
Range			
2.0	< 25		700
25	to 50		4
50	to 75		0
75	to 150		0
150	to 212		0
	> 212		0
Total Non-Zero Values			704

### PASZA - Henry Pirker - Nitric Oxide Monthly Summary

Station: Henry Pirker  
Station Owner: PASZA

### HOURLY AVERAGE TABLE

### Nitric Oxide (NO)

Monitoring Dates: May 1, 2007 to June 1, 2007

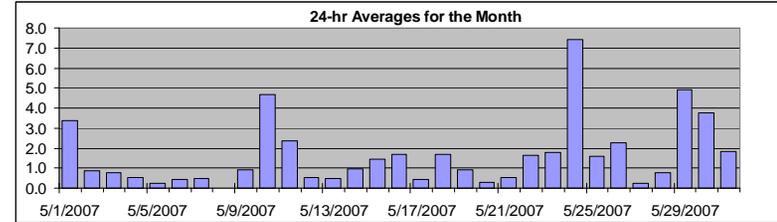
Guideline Limit: 

1-hr	na	ppb	24-hr	na	ppb
------	----	-----	-------	----	-----

**Summary**

Maximum 1-hr Average:	35.9	ppb	10-May	7:00 8:00
Maximum 24-hr Average:	7.4	ppb	24-May	

AIC Time:	33 hrs	Operational Time:	704 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	19.7	7.5	1.1	0.5	0.2	0.1	0.0	1.6 ppb	0.5 ppb



**Status Flag Characters**

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	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-May-07	5	3	5	6	3	4	12	8	10	11	2	1	1	1	A	1	1	0	1	1	0	0	0	0	3.4	12.3	
2-May-07	0	1	1	0	1	1	2	2	1	1	1	1	1	A	1	1	1	1	1	0	1	0	0	0	0.9	2.3	
3-May-07	0	0	1	1	1	1	2	2	1	1	1	1	A	1	1	1	1	1	1	1	0	0	0	0	0.8	2.0	
4-May-07	0	0	0	0	0	0	0	1	0	0	1	A	1	1	1	1	1	1	1	1	0	0	0	0	0.5	1.4	
5-May-07	0	0	0	0	0	0	0	0	0	0	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0.2	0.6	
6-May-07	0	0	0	0	0	1	3	1	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.6	
7-May-07	0	0	0	0	0	0	1	1	A	1	0	1	1	1	2	1	1	1	1	0	0	0	0	0	0.5	1.6	
8-May-07	0	0	0	0	0	1	2	A	3	2	C	C	C	C	C	A	1	1	0	0	0	0	0	N	3.3	3.3	
9-May-07	0	0	0	0	0	A	0	1	1	1	1	2	2	1	2	1	1	3	1	1	1	1	2	2	0.9	2.6	
10-May-07	1	1	1	1	2	A	27	36	18	9	3	2	1	1	0	1	0	0	0	0	1	1	0	1	4.7	35.9	
11-May-07	0	0	0	0	0	A	16	20	3	1	1	1	1	1	1	1	1	0	0	0	1	2	2	2	2.3	20.2	
12-May-07	0	0	0	0	A	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0.5	1.0	
13-May-07	0	0	0	A	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.3	
14-May-07	0	1	A	0	0	0	6	5	3	2	1	1	0	0	0	M	0	0	0	0	0	0	0	0	1.0	6.0	
15-May-07	0	0	0	0	0	A	8	5	8	3	1	1	0	0	1	0	1	1	1	1	1	0	0	0	1.4	8.2	
16-May-07	0	0	0	1	A	5	17	5	3	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	1.7	17.1	
17-May-07	0	0	0	A	0	0	2	1	1	0	P	0	0	0	0	0	0	0	1	0	0	1	0	0	0.4	1.7	
18-May-07	1	1	1	0	1	A	2	3	3	2	4	3	3	2	3	2	2	2	2	1	1	1	1	1	1.7	3.6	
19-May-07	1	1	1	1	A	1	1	1	5	3	2	1	1	0	1	0	1	1	1	0	0	0	0	0	0.9	4.7	
20-May-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
21-May-07	0	0	A	0	1	1	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.6	2.0	
22-May-07	0	A	1	1	1	4	7	8	5	3	1	1	1	1	2	1	0	0	0	0	0	1	0	0	1.6	7.6	
23-May-07	A	0	0	0	0	0	1	1	1	1	1	3	1	1	3	1	1	1	1	2	1	3	13	A	1.8	13.3	
24-May-07	13	31	15	18	11	7	18	28	20	5	1	1	0	0	0	0	0	0	0	0	0	0	A	0	7.4	31.2	
25-May-07	0	0	0	2	3	8	10	5	2	2	2	1	0	0	0	0	0	0	0	0	0	A	0	0	1.6	10.0	
26-May-07	2	5	16	4	4	7	3	4	2	2	1	1	0	0	0	0	0	0	0	0	A	0	0	0	2.3	16.4	
27-May-07	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.2	0.6	
28-May-07	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0	1	3	3	0.8	3.4
29-May-07	2	4	4	3	4	16	21	24	19	8	2	1	0	1	0	1	0	A	1	1	1	0	0	1	4.9	24.0	
30-May-07	4	5	7	7	6	12	14	13	4	3	3	3	2	0	0	0	A	0	0	0	0	0	0	0	3.8	13.9	
31-May-07	0	0	1	1	3	11	11	5	3	1	1	1	1	0	0	A	0	0	0	0	0	0	1	2	0	1.8	11.5
Hourly Avg	1.0	1.8	1.9	1.7	1.5	3.2	6.1	6.1	4.1	2.2	1.3	1.0	0.8	0.6	0.8	0.6	0.6	0.6	0.5	0.4	0.4	0.5	0.9	0.5			
Hourly Max	12.7	31.2	16.4	18.1	11.3	15.7	27.3	35.9	19.7	10.7	3.6	3.4	2.8	2.1	3.5	2.0	1.8	2.6	1.5	2.3	1.3	2.9	13.3	3.4			

## PASZA - Henry Pirker - Oxides of Nitrogen Monthly Summary

Station: Henry Pirker  
Station Owner: PASZA

### HOURLY AVERAGE TABLE

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

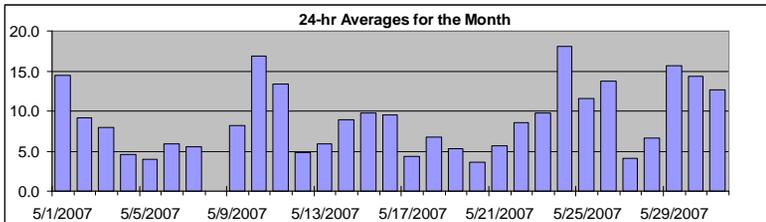
Monitoring Dates: May 1, 2007 to June 1, 2007

Guideline Limit: Alberta Environment: 

1-hr	na	ppb	24-hr	na	ppb
------	----	-----	-------	----	-----

Summary					
Maximum 1-hr Average:	58.9	ppb	10-May	7:00 8:00	
Maximum 24-hr Average:	18.1	ppb	24-May		

AIC Time:	33 hrs	Operational Time:	704 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	40.6	27.5	10.3	5.9	4.0	2.4	1.7	9.0 ppb	5.9 ppb



<b>Status Flag Characters</b>	
C Calibration	A AIC - Zero / Span Check
S 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-May-07	29	23	28	23	14	16	29	19	27	28	7	5	5	4	A	6	6	5	8	12	14	9	8	7	14.5	29.2	
2-May-07	6	6	7	6	7	9	15	11	8	8	7	7	8	A	8	9	10	8	11	12	16	11	12	11	9.1	15.9	
3-May-07	8	7	7	6	6	9	14	14	10	11	10	7	A	9	13	10	6	6	7	8	4	4	4	4	7.9	14.1	
4-May-07	3	3	3	3	3	4	5	6	4	4	4	A	5	5	6	6	7	7	5	5	5	3	3	3	4.6	7.4	
5-May-07	3	3	3	2	2	3	3	4	4	4	A	5	4	4	4	4	4	4	4	5	6	6	6	6	3.9	6.1	
6-May-07	8	10	8	3	4	12	22	10	4	A	6	4	4	4	4	4	4	4	4	3	4	4	4	3	5.9	21.7	
7-May-07	3	2	2	3	3	7	11	8	A	7	5	6	5	7	9	8	7	5	6	5	4	4	4	6	5.6	11.2	
8-May-07	6	7	10	4	7	11	15	A	16	10	C	C	C	C	C	A	10	10	9	9	10	7	6	6	N	15.5	
9-May-07	5	5	5	2	3	A	7	6	5	5	6	7	6	7	7	9	17	8	6	10	19	22	18	8.2	22.1		
10-May-07	13	9	8	11	20	A	51	59	38	24	12	8	7	6	4	4	3	3	3	5	22	30	27	22	16.9	58.9	
11-May-07	11	9	12	7	9	A	35	43	16	7	5	4	5	7	5	4	4	4	3	6	11	30	38	30	13.3	43.2	
12-May-07	12	2	2	1	A	5	6	8	4	4	4	4	4	4	4	4	4	4	4	4	6	9	6	8	4.8	11.7	
13-May-07	5	4	4	A	16	12	9	8	5	4	3	3	2	2	2	2	2	1	2	3	5	8	9	10	5.8	16.0	
14-May-07	16	18	A	12	11	10	27	20	12	9	6	4	2	2	2	M	2	2	2	6	10	8	6	7	8.9	26.6	
15-May-07	6	7	11	14	13	A	31	20	24	15	8	4	4	4	5	4	5	5	6	9	10	9	7	5	9.8	31.4	
16-May-07	7	5	7	16	A	29	48	22	16	8	6	5	5	3	4	5	5	4	5	6	6	3	3	3	9.5	47.9	
17-May-07	3	3	3	A	5	6	14	9	5	3	P	2	2	2	3	2	3	4	7	4	4	4	3	3	4.3	13.7	
18-May-07	3	3	4	3	4	A	9	10	9	8	10	9	8	7	9	8	8	7	7	6	6	6	5	5	6.7	10.3	
19-May-07	5	4	4	5	A	7	7	7	12	8	6	4	4	4	4	4	5	7	5	5	5	4	2	2	5.3	12.2	
20-May-07	2	2	2	A	5	5	5	4	4	4	3	4	3	2	2	2	2	2	2	3	4	6	9	7	3.6	8.9	
21-May-07	7	6	A	8	11	11	12	8	5	6	5	5	4	2	2	2	2	2	4	4	9	5	6	7	5.7	11.9	
22-May-07	7	A	13	13	11	16	20	21	15	10	5	4	4	5	8	5	3	3	4	4	7	9	6	5	8.6	21.1	
23-May-07	A	12	7	6	5	6	9	8	6	4	8	14	5	5	11	5	5	6	7	12	12	24	40	A	9.8	40.1	
24-May-07	36	52	31	33	25	19	31	45	34	14	5	4	3	3	3	4	3	3	4	6	17	22	A	15	18.1	52.1	
25-May-07	13	12	15	24	21	26	33	19	11	10	11	5	3	3	3	3	2	2	3	3	6	12	A	17	11.6	32.5	
26-May-07	25	35	45	27	25	26	17	17	10	10	6	5	4	4	5	4	4	3	4	4	A	12	12	11	13.7	45.4	
27-May-07	9	5	3	3	4	5	5	4	4	4	3	3	3	3	3	3	3	3	3	A	6	6	7	5	4.1	8.7	
28-May-07	3	2	1	2	3	6	7	4	4	3	3	4	4	4	5	4	5	4	A	5	7	22	24	25	6.6	24.8	
29-May-07	16	21	20	17	18	29	35	41	37	23	9	4	3	4	3	5	4	A	7	7	13	13	14	16	15.7	40.6	
30-May-07	22	21	21	21	21	25	32	32	16	11	15	13	10	5	5	5	A	5	6	6	9	8	10	10	14.4	32.3	
31-May-07	8	9	16	16	22	36	35	21	16	6	6	6	4	3	3	A	5	4	4	5	9	21	31	7	12.7	36.0	
Hourly Avg	10.0	10.2	10.3	10.4	10.7	13.5	19.3	16.9	12.8	9.0	6.5	5.5	4.5	4.1	5.0	4.7	4.7	4.8	5.1	6.1	8.9	10.9	11.7	9.6			
Hourly Max	36.3	52.1	45.4	33.4	25.0	36.0	51.1	58.9	38.4	28.3	15.0	13.9	10.4	8.9	13.0	10.4	10.4	16.8	11.1	12.4	21.8	29.8	40.1	30.4			

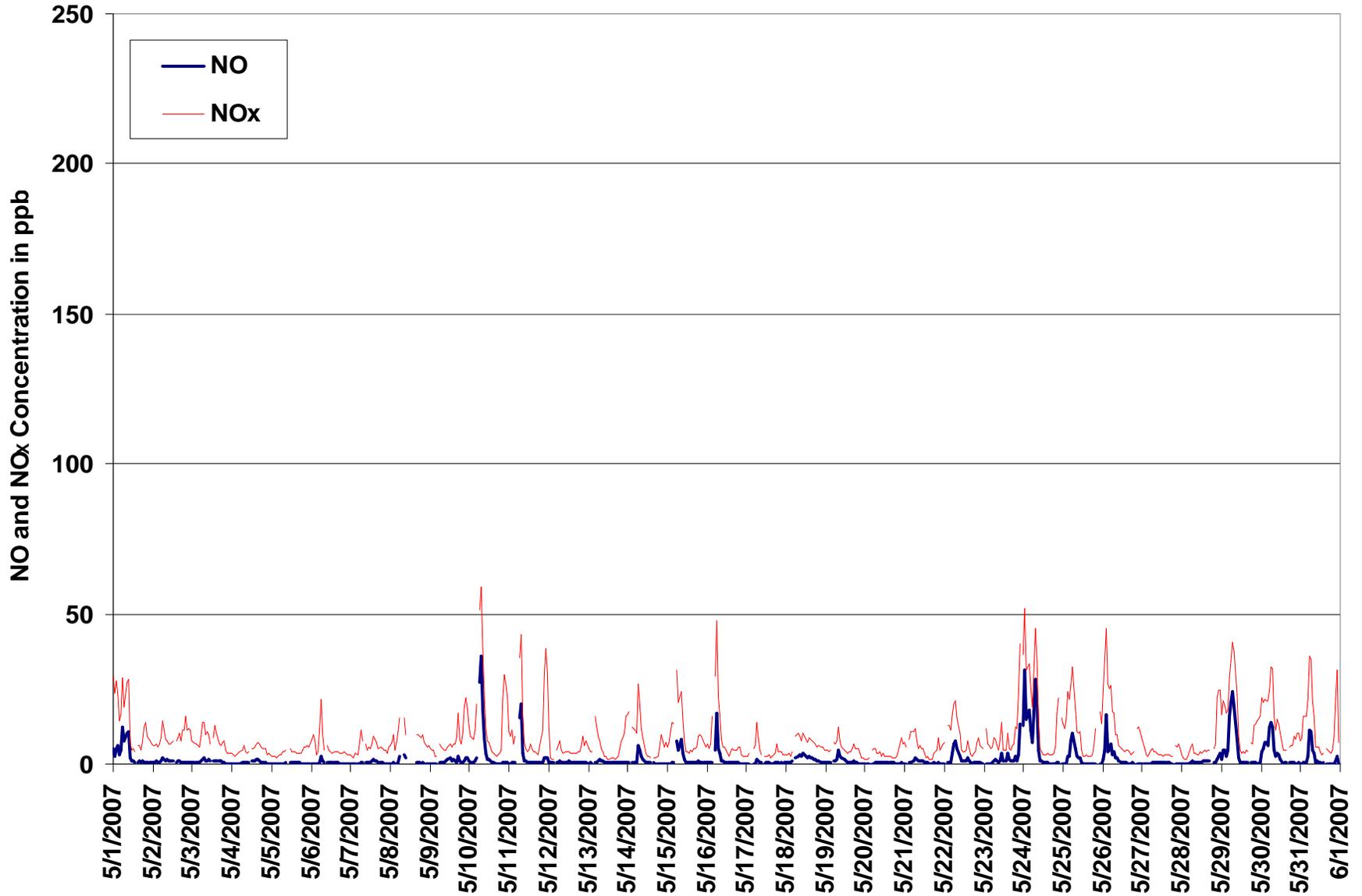


Figure 5. PASZA - Henry Pirkler Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

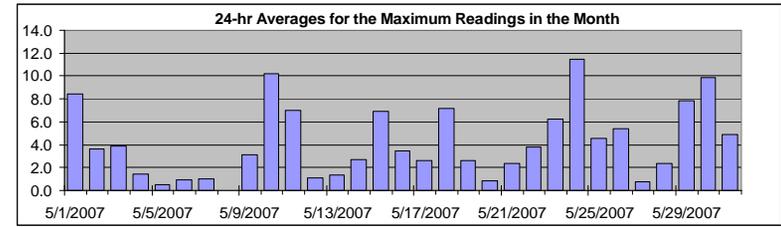
**Nitric Oxide (NO)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	67.1	ppb	30-May	11:00 12:00
Maximum 24-hr Value:	11.5	ppb	24-May	

AIC Time:	33 hrs		Operational Time:	704 hrs					
Calibration Time:	5 hrs		AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average	Median
	35.3	17.0	4.2	1.5	0.7	0.2	0.1	4.2 ppb	1.5 ppb



**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum	
1-May-07	33	5	13	14	6	10	17	13	17	18	8	3	3	A	1	7	2	7	4	2	2	1	1	1	8.4	33.1	
2-May-07	4	6	8	2	6	4	11	6	6	5	3	3	5	A	1	2	2	1	1	1	1	2	1	1	3.6	11.3	
3-May-07	1	3	4	5	4	12	5	13	8	3	5	3	A	2	11	2	1	2	2	3	1	1	0	1	3.9	13.4	
4-May-07	0	1	0	1	1	1	1	2	1	1	2	A	2	2	3	3	3	2	2	2	2	0	1	1	1.4	3.1	
5-May-07	0	1	1	0	0	0	0	1	1	1	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0.5	1.1	
6-May-07	0	1	1	0	0	3	4	4	1	A	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0.9	3.7	
7-May-07	0	0	0	0	0	1	1	1	A	1	2	1	2	2	3	2	2	2	1	1	1	1	0	1	1.0	2.9	
8-May-07	1	1	1	0	1	1	14	A	6	3	C	C	C	C	C	A	2	1	1	1	1	1	0	1	N	13.9	
9-May-07	1	0	1	0	1	A	1	2	2	1	2	5	6	4	5	4	2	9	6	1	1	4	5	10	3.1	9.7	
10-May-07	2	2	1	2	10	A	48	56	35	13	6	5	2	2	2	16	1	1	1	1	10	5	2	13	10.2	55.6	
11-May-07	1	1	3	3	2	A	35	43	7	3	2	1	1	2	4	1	1	1	1	1	11	24	8	7	7.0	43.1	
12-May-07	1	0	0	0	A	0	0	2	1	1	1	1	1	2	1	2	2	1	2	1	0	0	0	0	1.1	2.3	
13-May-07	0	0	1	A	2	1	1	2	1	1	1	1	0	2	4	2	0	2	1	1	4	1	1	1	1.4	3.9	
14-May-07	1	1	A	1	1	1	16	12	5	3	2	10	3	1	1	M	1	1	0	0	0	0	0	0	2.7	16.3	
15-May-07	0	0	1	3	2	A	34	20	57	10	3	4	1	1	2	2	3	2	2	7	5	1	1	1	6.9	57.1	
16-May-07	1	0	0	2	A	12	34	9	6	2	2	1	1	1	1	1	1	2	1	1	1	0	0	0	3.5	34.4	
17-May-07	0	0	0	A	0	1	5	3	2	1	P	1	5	1	4	1	1	8	7	3	3	7	1	4	2.6	8.3	
18-May-07	4	6	8	4	7	A	9	8	13	10	9	12	8	7	4	8	9	10	9	5	11	2	1	1	7.2	12.9	
19-May-07	1	2	2	1	A	2	2	3	7	6	3	4	2	1	2	2	3	9	5	2	0	0	0	1	2.6	9.2	
20-May-07	0	0	0	A	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	0.8	2.0	
21-May-07	1	1	A	2	2	1	3	17	2	2	2	2	2	2	2	1	1	1	8	1	1	1	0	1	2.4	17.1	
22-May-07	1	A	1	1	1	7	10	9	8	5	2	2	5	3	10	5	1	1	1	7	2	2	1	3	3.8	10.1	
23-May-07	A	1	0	0	0	1	2	9	3	2	4	28	3	3	8	3	4	8	6	6	2	14	31	A	6.2	30.6	
24-May-07	19	46	27	28	14	12	24	37	31	10	3	2	1	1	2	1	1	1	1	1	1	2	A	1	11.5	46.4	
25-May-07	1	1	1	26	13	12	15	16	4	3	4	2	1	1	1	1	1	1	1	1	1	1	A	1	0	4.5	26.5
26-May-07	8	14	32	15	10	15	6	7	3	3	2	1	1	1	1	1	1	1	1	1	A	1	1	0	5.4	32.4	
27-May-07	1	0	0	0	1	1	1	1	1	1	1	1	2	1	2	1	1	1	1	A	0	0	0	1	0.7	2.0	
28-May-07	0	0	0	0	1	1	2	1	1	1	1	1	2	2	3	3	2	3	A	1	1	3	9	18	2.4	17.9	
29-May-07	4	8	8	3	7	31	29	29	27	15	4	1	1	2	1	2	1	A	1	1	2	1	1	2	7.9	31.1	
30-May-07	7	10	13	10	11	19	19	20	7	5	11	67	12	2	2	2	A	1	3	1	1	1	1	5	9.9	67.1	
31-May-07	1	1	3	2	15	27	20	11	7	3	2	2	6	1	1	A	1	1	1	1	1	3	9	1	4.9	26.9	
Hourly Avg	3.1	3.7	4.5	4.5	4.1	6.8	11.9	11.8	9.0	4.4	3.1	5.7	2.7	1.9	2.8	2.5	1.9	2.4	2.4	1.8	2.1	2.7	2.6	2.5			
Hourly Max	33.1	46.4	32.4	28.4	14.7	31.1	47.6	55.6	57.1	18.3	10.7	67.1	12.1	7.1	11.0	15.9	9.4	9.9	9.0	7.0	11.4	23.6	30.6	17.9			

Station: Henry Pirker  
 Station Owner: PASZA

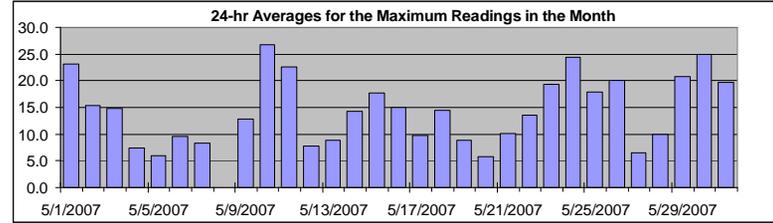
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

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

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	98.7	ppb	30-May	11:00 12:00
Maximum 24-hr Value:	26.8	ppb	10-May	



AIC Time:	33 hrs	Operational Time:	704 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	63.7	43.1	17.1	9.7	6.4	4.0	2.5	14.5 ppb	9.7 ppb

**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-07	60	29	38	37	20	26	35	28	40	41	16	10	9	15	A	9	16	7	19	27	17	15	10	9	23.2	59.7
2-May-07	11	18	17	7	15	15	29	19	17	13	11	12	16	A	10	13	14	9	17	17	21	21	15	15	15.3	28.6
3-May-07	12	12	14	16	12	26	20	32	23	17	16	12	A	13	32	18	9	11	17	5	5	5	6	6	14.8	32.1
4-May-07	5	4	4	5	5	9	7	10	7	4	7	A	7	9	9	12	12	10	11	11	12	4	4	4	7.5	11.9
5-May-07	3	4	4	3	4	4	5	6	5	6	A	7	6	6	6	5	5	5	5	9	9	12	10	9	5.9	11.5
6-May-07	15	22	15	3	7	26	28	22	6	A	9	6	6	4	5	6	5	6	4	5	5	5	4	4	9.6	27.6
7-May-07	4	4	2	5	4	13	18	13	A	9	8	8	8	11	12	12	10	9	7	7	5	6	5	8	8.3	18.4
8-May-07	9	9	13	7	8	15	33	A	24	14	C	C	C	C	A	13	14	17	11	15	10	7	8	N	33.0	
9-May-07	6	6	9	3	5	A	10	9	8	7	7	10	10	11	14	13	16	30	18	8	16	29	28	24	12.8	30.0
10-May-07	19	12	10	17	32	A	72	80	61	29	20	12	9	8	7	39	5	6	6	9	48	40	34	44	26.8	79.9
11-May-07	19	14	23	13	12	A	58	75	24	13	8	7	6	12	13	7	6	7	5	8	38	61	49	40	22.6	74.8
12-May-07	20	5	2	2	A	10	10	10	8	6	6	6	6	6	6	8	7	7	9	7	9	12	9	10	7.8	19.8
13-May-07	7	6	6	A	21	17	11	9	7	5	5	6	3	4	6	5	3	6	5	7	13	13	15	23	8.9	22.6
14-May-07	23	21	A	18	15	16	45	37	18	11	9	17	8	5	5	M	5	4	4	11	12	12	8	11	14.2	45.4
15-May-07	8	9	17	19	18	A	60	49	62	22	13	8	6	5	8	8	11	9	9	18	18	12	10	9	17.6	62.1
16-May-07	10	7	12	25	A	42	72	34	25	12	8	8	9	5	8	12	8	9	7	9	9	6	6	5	15.0	71.9
17-May-07	4	4	5	A	9	12	26	18	8	6	P	10	8	4	8	4	8	21	17	8	8	14	5	8	9.7	26.5
18-May-07	9	13	13	9	14	A	18	16	23	17	19	19	15	13	17	17	21	18	10	17	8	7	7	7	14.4	22.7
19-May-07	6	6	6	6	A	10	12	13	17	13	7	8	5	5	6	10	10	24	12	8	9	7	3	3	8.9	23.8
20-May-07	2	3	4	A	8	8	8	5	5	6	5	7	4	4	4	3	4	4	5	5	7	11	14	12	5.9	13.6
21-May-07	11	10	A	12	14	12	14	20	9	9	9	9	7	5	4	4	4	3	21	9	16	12	7	12	10.2	20.9
22-May-07	11	A	17	16	13	24	27	25	22	14	8	6	7	9	23	13	6	6	6	19	12	12	9	10	13.6	26.6
23-May-07	A	15	10	13	7	8	11	21	12	9	19	72	9	12	19	9	8	17	16	22	21	42	53	A	19.3	71.8
24-May-07	41	68	44	46	29	24	39	56	48	24	9	7	5	4	7	6	6	6	7	10	24	28	A	23	24.4	68.5
25-May-07	17	16	22	53	43	34	38	40	14	14	16	9	5	5	5	4	4	5	6	12	14	A	23	16	18.0	53.4
26-May-07	37	45	64	46	32	37	26	24	12	14	9	7	8	8	7	7	7	5	6	7	A	19	18	18	20.1	63.7
27-May-07	12	11	4	3	6	7	6	6	6	5	4	6	5	7	5	5	4	4	A	8	11	9	8	8	6.4	12.4
28-May-07	5	3	2	2	5	9	11	6	5	5	5	5	6	6	10	9	8	7	A	7	12	27	33	43	10.0	43.5
29-May-07	24	27	25	19	21	46	44	46	46	36	13	6	5	8	6	8	6	A	10	9	17	16	18	19	20.7	46.4
30-May-07	25	29	28	24	25	31	39	43	23	17	30	99	42	8	11	9	A	9	18	11	12	10	13	19	24.9	98.7
31-May-07	9	11	22	20	39	55	51	31	25	14	8	9	13	5	7	A	8	7	5	9	15	36	49	10	19.7	54.7
Hourly Avg	14.8	14.7	15.5	16.0	15.8	20.5	28.5	26.8	20.3	13.7	10.9	14.0	8.7	7.4	9.6	9.8	8.2	9.4	10.2	10.9	14.8	17.1	16.0	14.5		
Hourly Max	59.7	68.5	63.7	53.4	43.2	54.7	72.0	79.9	62.1	41.4	30.3	98.7	41.6	15.1	31.6	38.7	16.9	30.0	20.9	27.2	47.6	61.3	53.1	43.5		

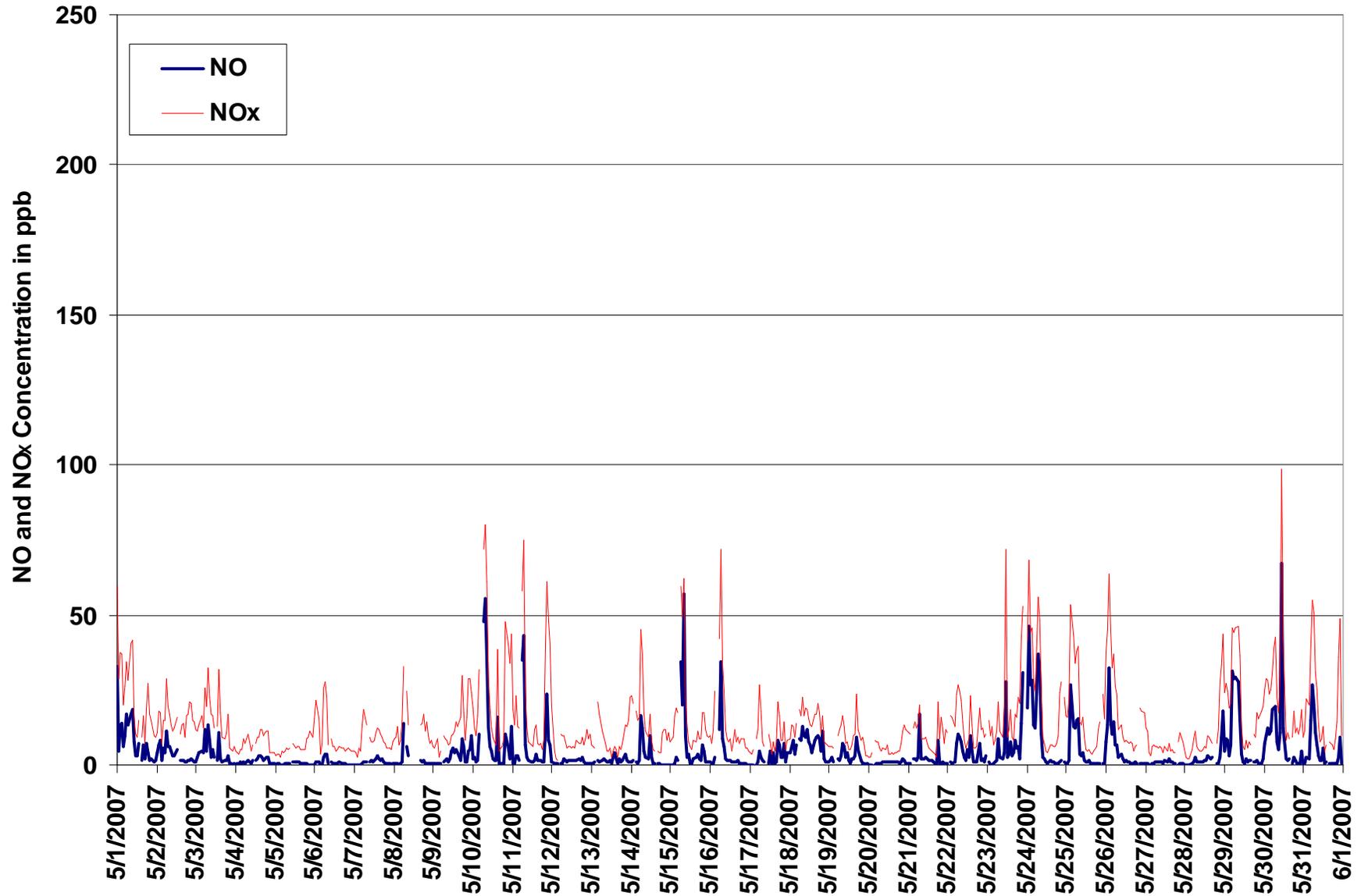


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

# PASZA - Henry Pirker - Ozone Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

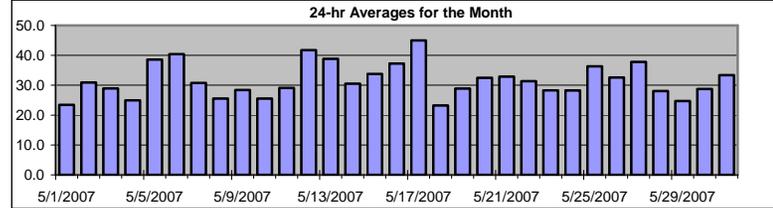
Ozone (O<sub>3</sub>)

Monitoring Dates: May 1, 2007 to June 1, 2007

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

**Summary**

Number of 1-hr Exceedances:				0
Maximum 1-hr Average:	57.3	ppb	30-May	13:00 14:00
Maximum 24-hr Average:	45.0	ppb	17-May	



AIC Time:	34 hrs	Operational Time:	701 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	52.5	49.4	41.7	32.4	23.8	8.7	4.5	31.6 ppb	32.4 ppb

**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00		
1-May-07	3	5	1	1	4	6	4	9	10	16	35	39	39	41	A	42	41	42	40	33	31	32	32	33	23.4	42.3
2-May-07	32	31	30	30	30	28	24	27	30	33	36	37	37	A	36	35	32	34	30	28	23	31	29	28	30.9	37.1
3-May-07	30	30	30	29	30	25	23	26	29	24	32	33	A	33	27	26	29	28	28	29	30	30	33	30	28.9	33.5
4-May-07	29	28	28	27	21	20	29	31	32	30	27	A	25	24	23	22	21	20	21	22	21	25	24	26	25.0	31.7
5-May-07	26	26	26	28	28	28	31	35	37	38	A	41	42	43	46	49	50	49	46	43	43	48	44	42	38.6	50.1
6-May-07	35	31	33	41	37	30	24	33	41	A	45	47	48	47	45	45	44	43	44	43	41	44	45	42	40.4	48.1
7-May-07	40	41	40	42	39	34	34	39	A	38	37	34	32	27	25	24	25	24	23	23	23	22	22	18	30.7	41.6
8-May-07	18	17	14	20	16	13	13	A	14	19	23	27	27	31	31	33	33	31	30	29	32	38	38	37	25.5	38.4
9-May-07	35	32	33	36	37	A	32	33	33	30	27	25	C	C	A	27	31	29	33	33	24	17	9	11	28.4	36.9
10-May-07	17	19	17	12	3	A	4	5	12	19	28	33	37	41	43	44	45	44	44	42	26	17	19	19	25.6	44.7
11-May-07	21	20	14	16	15	A	6	9	26	35	39	41	43	44	48	44	45	47	46	42	36	17	7	6	29.1	48.3
12-May-07	17	45	44	48	A	43	41	38	44	45	47	48	47	46	45	44	44	44	43	40	35	36	32	41.7	47.9	
13-May-07	34	35	33	A	23	27	31	34	38	39	44	47	48	50	50	49	49	49	48	43	38	35	31	18	38.8	49.6
14-May-07	12	10	A	11	17	23	14	20	28	34	40	45	C	C	C	C	C	53	52	47	39	36	37	32	30.5	53.2
15-May-07	35	31	22	13	12	A	12	17	19	25	37	43	45	47	49	50	50	47	45	38	34	34	35	36	33.8	50.4
16-May-07	33	34	28	10	A	D	0	16	24	38	45	46	46	49	49	48	48	47	49	45	40	41	43	42	37.3	49.0
17-May-07	43	44	43	A	44	42	38	44	47	48	P	A	48	50	52	54	52	51	46	50	50	36	31	30	45.0	54.0
18-May-07	29	28	28	28	25	A	20	18	19	20	19	20	20	21	21	25	27	25	24	24	23	23	24	22	23.2	29.2
19-May-07	21	21	22	21	A	17	16	15	13	15	17	23	30	34	37	46	46	42	37	37	42	38	36	38	28.9	46.3
20-May-07	38	40	37	A	31	29	28	32	34	36	37	37	35	33	32	34	33	34	34	34	29	24	21	24	32.5	39.9
21-May-07	22	25	A	17	15	15	16	21	28	33	37	39	42	44	45	45	45	46	43	39	34	37	35	33	32.9	45.6
22-May-07	27	A	18	14	15	13	17	20	25	30	35	32	35	40	44	46	44	43	43	42	36	33	36	33	31.3	45.9
23-May-07	A	23	27	30	32	32	30	31	34	36	33	31	32	30	28	31	31	28	32	28	25	14	6	A	28.3	35.8
24-May-07	5	5	5	5	6	9	10	12	16	29	36	39	43	46	47	48	49	50	50	47	36	28	A	29	28.2	50.4
25-May-07	29	29	20	12	9	11	19	29	35	38	40	47	49	50	52	52	52	53	53	50	43	A	32	34	36.3	52.8
26-May-07	16	7	7	12	9	12	23	25	34	36	42	48	51	50	51	51	49	48	45	43	A	31	28	30	32.6	51.5
27-May-07	31	35	38	39	38	34	34	36	40	44	44	43	42	41	41	42	41	42	41	A	36	35	29	23	37.8	44.1
28-May-07	29	32	34	34	31	29	28	31	30	32	31	30	30	31	31	31	29	30	A	33	29	13	9	8	28.1	34.1
29-May-07	14	8	6	7	6	7	9	11	16	25	34	41	41	42	44	44	45	A	37	36	29	26	25	14	24.7	44.5
30-May-07	5	6	5	5	5	7	12	18	27	33	36	44	52	57	57	53	A	46	45	39	33	27	23	24	28.7	57.3
31-May-07	28	23	15	13	12	9	17	27	33	44	46	48	49	49	50	A	51	50	48	38	21	17	28	33.4	51.2	
Hourly Avg	25.1	25.4	24.1	21.5	21.2	21.7	20.6	24.7	28.3	32.2	35.5	38.2	39.9	40.7	41.0	40.9	40.8	40.7	40.1	37.8	33.5	29.6	27.8	27.4		
Hourly Max	43.4	44.5	44.3	47.8	44.1	43.0	41.2	43.7	46.5	48.5	46.6	48.0	51.8	57.3	57.0	54.0	52.4	53.2	52.7	50.1	49.8	47.6	44.7	42.3		

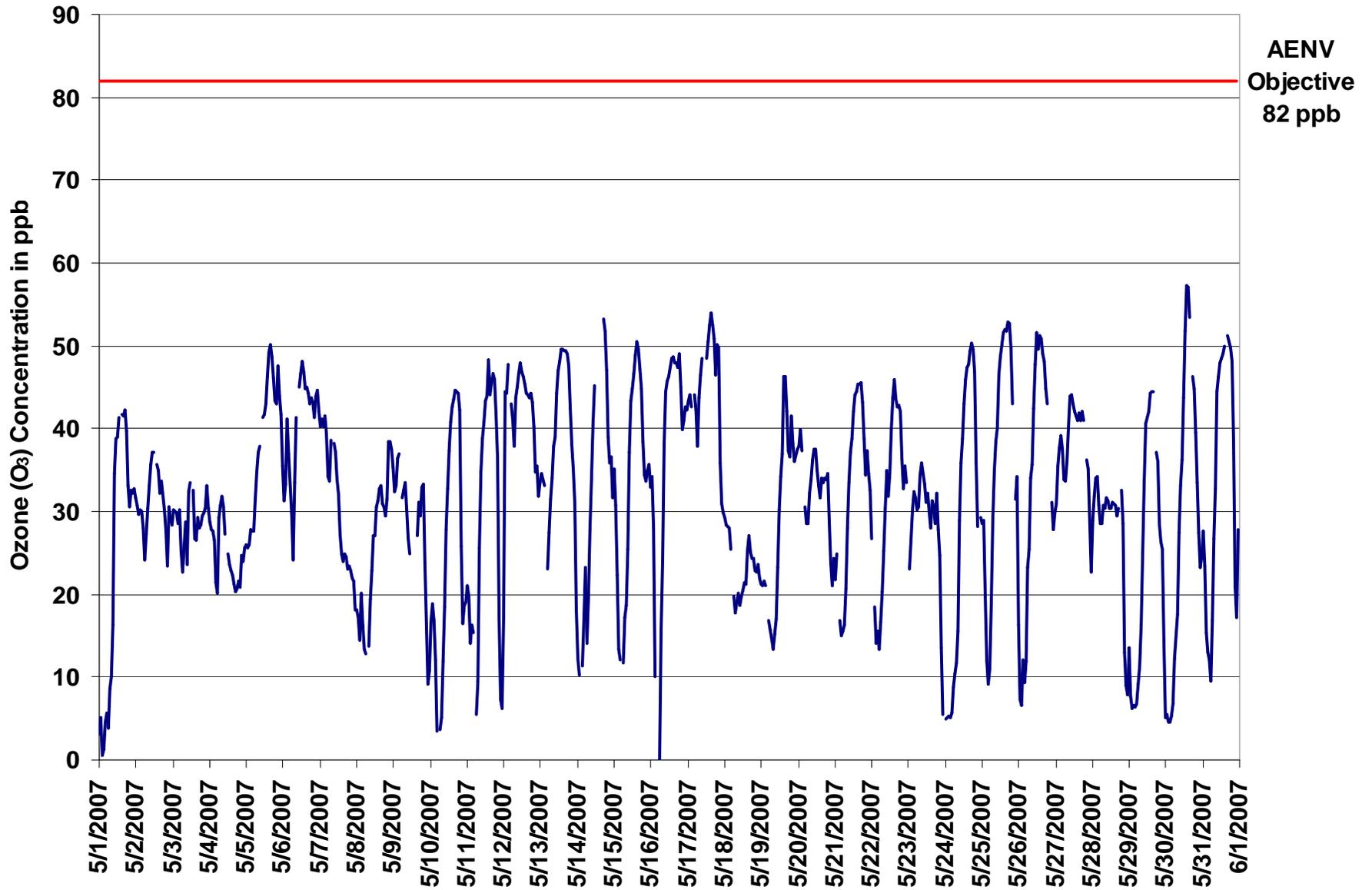


Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

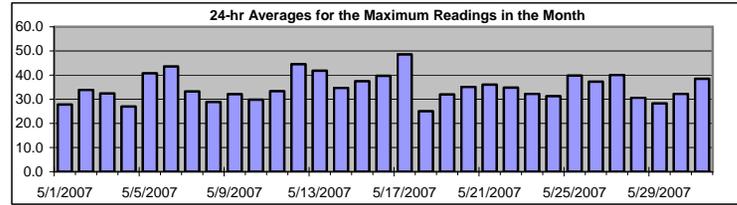
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

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

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	60.1	ppb	30-May	14:00 15:00
Maximum 24-hr Value:	48.6	ppb	17-May	



AIC Time:	34 hrs	Operational Time:	702 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	55.3	51.8	44.7	35.9	27.3	12.8	6.2	34.9 ppb	35.9 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/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-May-07	12	11	3	6	9	8	9	14	14	34	39	41	41	44	A	45	44	45	43	38	34	36	35	34	27.8	45.3
2-May-07	33	33	31	31	32	31	27	31	33	36	39	40	40	A	38	37	37	36	35	32	28	35	33	32	33.9	40.0
3-May-07	32	33	32	31	33	30	27	31	33	31	36	36	A	36	35	32	32	31	32	32	32	32	35	33	32.4	36.1
4-May-07	30	29	29	29	23	22	33	33	34	32	29	A	26	26	25	25	23	23	22	24	23	27	25	27	27.0	34.0
5-May-07	27	26	28	29	29	29	36	38	39	39	A	42	43	44	49	51	52	51	48	47	46	51	48	46	40.8	51.7
6-May-07	41	37	41	42	42	36	28	37	44	A	47	48	51	48	47	48	47	45	45	45	42	46	47	44	43.6	50.8
7-May-07	42	43	42	43	41	39	37	45	A	43	39	36	34	31	28	26	27	26	25	25	24	23	23	20	33.2	45.2
8-May-07	20	20	20	22	18	17	19	A	17	23	27	28	30	33	37	37	36	34	35	32	38	42	41	39	28.9	41.9
9-May-07	38	34	39	39	41	A	33	36	35	32	29	28	C	C	A	29	37	36	37	36	31	22	12	17	32.1	41.0
10-May-07	23	20	20	15	7	A	8	9	16	24	36	35	41	44	44	46	46	47	46	45	39	24	24	28	29.8	46.7
11-May-07	24	22	19	19	19	A	10	21	29	39	43	44	47	49	50	47	48	48	48	45	44	25	14	13	33.3	50.1
12-May-07	28	48	47	49	A	46	43	41	48	47	49	50	48	48	47	46	46	45	46	45	43	39	39	37	44.6	49.7
13-May-07	37	36	36	A	29	32	35	36	40	41	47	51	50	52	51	52	52	51	51	45	42	37	35	26	41.8	51.7
14-May-07	16	13	A	14	25	27	22	26	33	37	45	48	C	C	C	C	55	54	52	42	39	39	39	39	34.7	55.3
15-May-07	37	36	29	21	18	A	18	19	23	33	43	45	47	48	51	52	53	50	48	44	37	36	38	38	37.5	53.0
16-May-07	36	37	33	17	A	6	11	22	33	43	47	48	48	51	51	52	52	50	52	49	44	43	45	44	39.7	52.0
17-May-07	46	45	45	A	48	46	46	48	49	50	P	A	51	53	56	57	55	56	50	54	54	48	33	31	48.6	57.0
18-May-07	31	30	30	29	28	A	21	19	21	22	21	21	22	23	23	30	29	28	26	26	24	24	25	23	25.1	31.0
19-May-07	22	22	23	22	A	18	18	16	15	17	20	27	35	36	44	53	50	49	39	40	48	45	39	39	32.0	52.7
20-May-07	40	41	39	A	32	31	32	35	36	38	41	40	37	36	34	37	35	39	36	37	32	27	24	27	35.1	41.4
21-May-07	25	28	A	20	18	18	20	24	34	37	41	42	45	45	46	47	47	47	46	44	39	41	38	37	36.1	47.2
22-May-07	35	A	23	17	17	17	23	22	29	34	38	36	37	43	46	48	46	45	45	45	42	36	38	37	34.8	48.4
23-May-07	A	28	34	37	35	34	32	35	37	39	38	36	34	33	32	33	32	32	38	33	30	22	6	A	32.2	38.9
24-May-07	7	5	6	6	8	9	17	17	21	37	38	43	45	48	49	50	51	53	52	51	43	33	A	32	31.3	52.8
25-May-07	31	31	28	16	14	20	22	35	38	43	45	50	50	52	53	54	53	54	55	55	45	A	35	37	39.8	55.0
26-May-07	32	12	8	19	15	19	27	31	36	41	46	53	54	52	54	55	52	50	48	45	A	36	33	37	37.3	55.0
27-May-07	35	38	39	41	40	37	36	38	44	46	46	45	43	44	43	44	43	44	42	A	38	38	34	24	40.1	46.5
28-May-07	33	34	35	36	33	31	33	33	32	33	33	32	32	32	32	32	32	32	A	34	33	22	13	12	30.7	35.9
29-May-07	19	19	8	8	9	8	11	13	22	30	39	42	43	44	46	47	47	A	40	38	33	29	30	24	28.3	47.1
30-May-07	7	7	5	6	6	10	16	23	33	36	41	49	57	60	60	58	A	49	49	44	37	32	26	30	32.3	60.1
31-May-07	31	29	23	22	17	13	25	31	38	49	48	51	50	51	52	A	53	52	52	51	49	30	33	36	38.5	53.3
Hourly Avg	29.0	28.2	27.4	24.6	24.5	24.4	25.0	28.6	31.9	36.1	39.0	40.9	42.3	43.1	43.7	43.8	43.3	43.4	42.8	41.1	37.9	34.0	31.3	31.5		
Hourly Max	45.8	47.8	47.1	49.3	47.6	46.5	46.0	48.2	49.3	50.4	48.9	53.1	57.5	59.6	60.1	57.5	54.8	55.5	55.0	55.0	53.8	51.0	48.1	46.5		

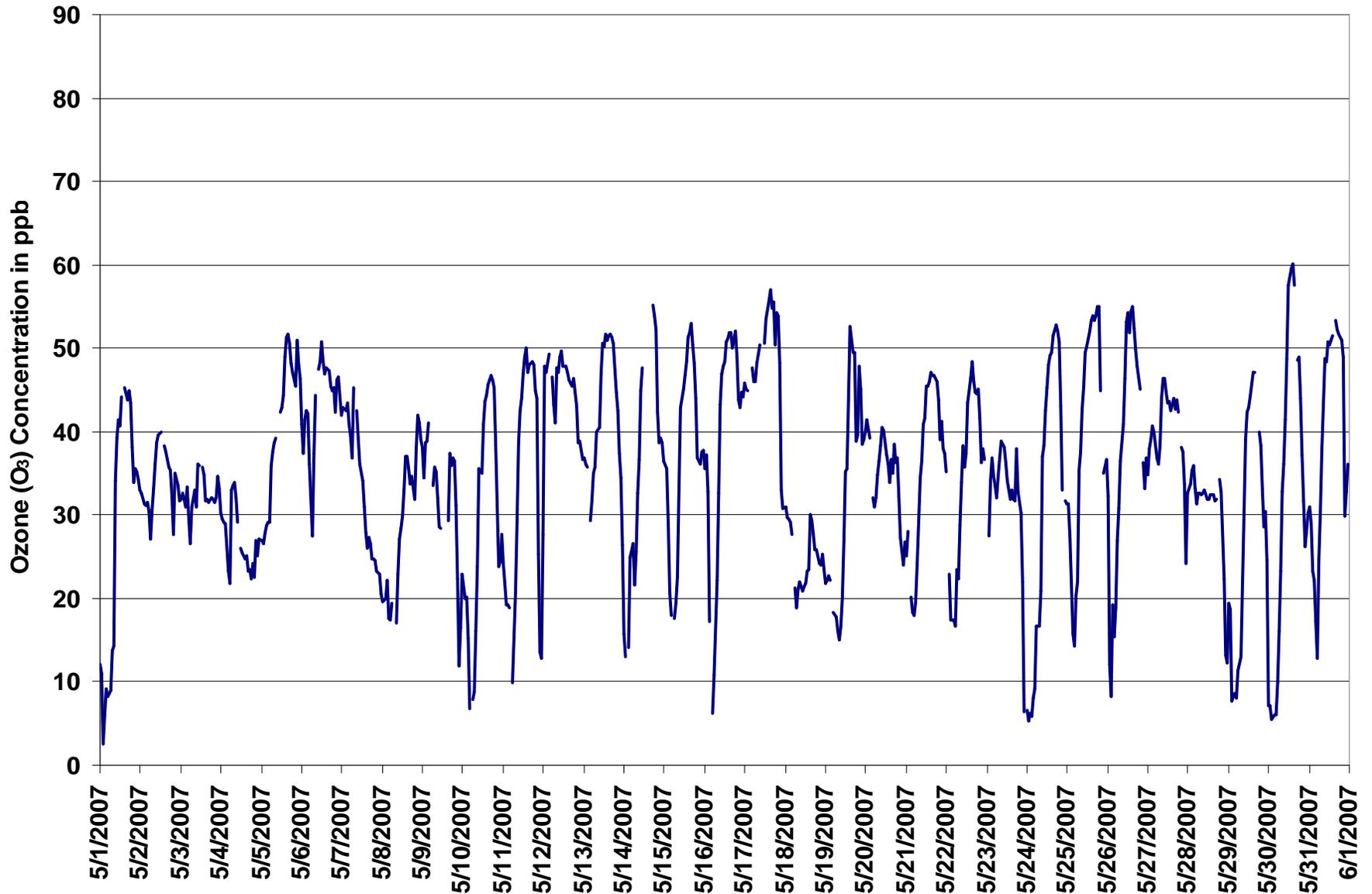
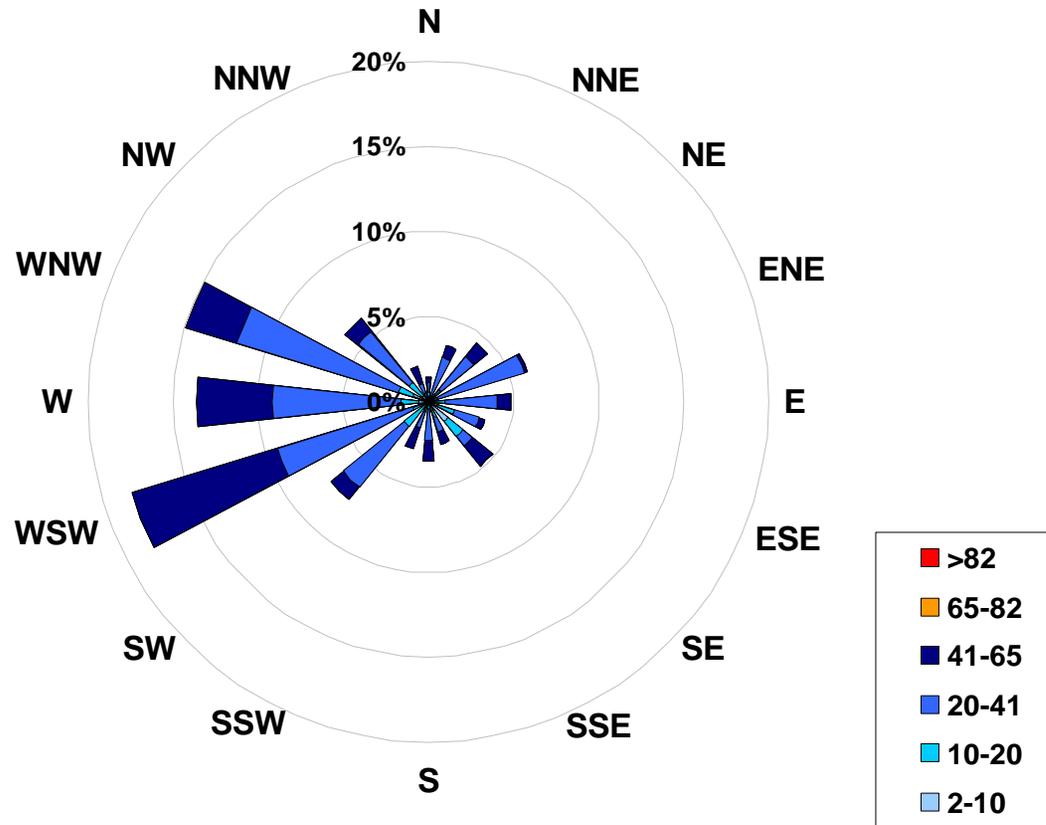


Figure 8. PASZA - Henry Pirker Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Ozone (in ppb) Located at the Henry Pirker Site for May 2007**



**Calms: 0%**

Frequency Distribution of O <sub>3</sub> in ppb			Frequency (hrs)
Range			
2.0	< 10		44
10	to 20		84
20	to 41		381
41	to 65		192
65	to 82		0
	> 82		0
Total Non-Zero Values			701

## PASZA - Henry Pirker - Ozone Eight Hour Average Summary

Station: Henry Pirker  
 Station Owner: PASZA

### EIGHT HOUR RUNNING AVERAGE TABLE

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

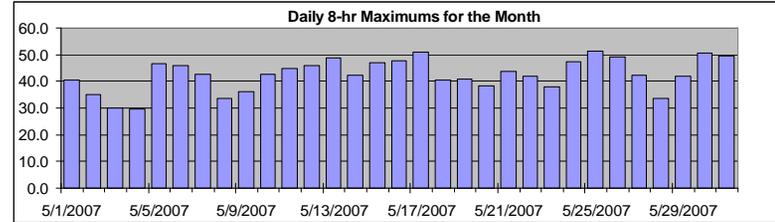
Monitoring Dates: May 1, 2007 to June 1, 2007

Objective Limit: Alberta Environment: 8-hr 65 ppb

**Summary**

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	51.2 ppb 25-May 19:00 20:00

Percentile		99	95	75	50	25	5	1
		50.4	46.8	39.6	31.4	24.1	14.2	7.2



**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-May-07	29	25	20	16	12	9	6	4	5	6	11	15	20	24	27	32	36	40	41	40	39	37	37	36	40.6
2-May-07	34	33	32	31	31	31	30	29	29	29	30	31	32	32	34	35	35	35	34	33	31	31	30	29	35.2
3-May-07	29	29	29	29	30	29	28	28	28	27	27	28	27	28	29	29	29	30	29	29	29	29	29	30	29.9
4-May-07	30	30	30	29	28	27	26	27	27	27	27	28	28	28	27	26	25	23	22	22	22	22	22	22	29.7
5-May-07	23	24	24	25	26	26	27	28	30	31	32	34	36	38	40	42	44	46	46	46	46	47	46	46	46.8
6-May-07	44	42	40	40	39	37	34	33	34	34	36	37	38	41	44	45	46	45	45	45	44	44	44	43	45.8
7-May-07	43	43	42	42	42	40	39	39	38	38	38	36	35	34	33	31	30	29	27	26	24	24	23	23	42.8
8-May-07	22	21	20	19	18	17	16	16	15	16	17	18	19	22	25	26	28	29	30	31	31	32	33	34	33.7
9-May-07	34	34	34	35	36	36	35	34	34	33	33	31	N	N	N	N	N	N	N	N	N	28	25	23	36.0
10-May-07	22	20	18	16	13	13	12	11	10	10	12	15	20	22	27	32	36	39	41	42	41	38	35	32	42.5
11-May-07	29	26	22	19	18	18	16	15	15	17	21	24	28	30	36	40	42	44	45	45	44	41	36	31	44.9
12-May-07	27	27	27	28	26	30	35	39	43	43	44	44	44	44	45	46	46	46	45	45	44	42	41	40	45.8
13-May-07	38	37	36	35	32	31	31	31	32	34	36	39	41	44	46	47	48	49	48	48	47	45	43	39	48.7
14-May-07	34	29	27	22	19	18	15	15	18	21	23	28	29	N	N	N	N	N	N	N	N	N	N	42	42.1
15-May-07	41	38	35	31	27	26	22	20	18	17	19	24	28	31	35	39	43	46	47	46	45	43	42	40	47.0
16-May-07	38	36	34	30	30	N	N	N	N	N	N	N	31	33	39	43	46	47	48	48	47	46	45	44	47.7
17-May-07	44	43	43	42	43	43	42	43	43	44	N	N	N	N	N	N	N	N	51	51	51	49	46	43	50.8
18-May-07	40	38	35	33	29	29	27	25	24	23	21	20	19	20	20	21	22	23	24	24	24	24	24	24	40.4
19-May-07	23	23	22	22	22	21	20	19	18	17	16	17	18	20	23	27	31	35	37	39	40	41	41	39	40.7
20-May-07	38	38	38	38	37	35	34	34	33	32	32	33	34	34	35	35	35	35	34	34	33	32	30	29	38.4
21-May-07	28	27	26	23	21	20	19	19	20	21	23	26	29	33	36	39	41	43	44	44	43	42	41	39	43.6
22-May-07	37	35	32	28	26	22	20	18	18	19	21	24	26	29	33	36	38	40	41	42	42	41	40	39	42.1
23-May-07	38	35	33	31	31	30	30	29	30	31	32	32	32	32	32	32	31	31	30	30	29	27	24	23	37.9
24-May-07	20	16	12	9	6	6	6	7	8	11	15	19	24	29	33	38	42	45	47	48	47	44	44	41	47.5
25-May-07	38	35	31	26	22	20	20	20	20	22	24	28	33	38	42	45	47	49	51	51	50	50	48	45	51.2
26-May-07	40	34	27	22	17	16	15	14	16	20	24	29	34	39	42	45	47	49	49	49	48	45	42	39	49.1
27-May-07	37	35	34	33	34	34	35	36	37	38	39	39	40	41	41	42	42	42	42	41	41	40	38	35	42.3
28-May-07	34	32	31	31	31	30	30	31	31	31	31	31	30	30	31	31	31	31	30	31	31	28	25	22	33.5
29-May-07	19	16	15	12	9	8	8	8	9	11	14	19	23	27	32	36	40	42	42	41	40	37	35	30	42.0
30-May-07	25	22	18	14	11	9	7	8	10	14	18	23	29	35	41	45	48	49	51	50	47	43	38	34	50.6
31-May-07	33	30	27	23	21	19	18	18	19	21	25	30	34	39	43	46	48	49	50	50	48	44	39	38	49.6

Hourly Max	43.8	43.4	42.6	42.2	42.8	43.0	42.4	42.6	43.2	43.6	43.6	43.6	44.0	44.4	44.9	45.7	48.2	49.4	50.8	51.2	50.8	50.5	47.6	45.5
------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

# PASZA - Henry Pirker - Carbon Monoxide Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

## Carbon Monoxide (CO)

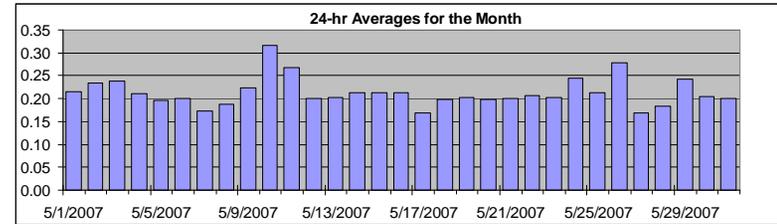
Monitoring Dates: May 1, 2007 to June 1, 2007

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

Summary

Number of 1-hr Exceedances:	0					
Maximum 1-hr Average:	0.8	ppm	26-May	2:00	3:00	
Maximum 24-hr Value:	0.3	ppm	10-May			

AIC Time:	34 hrs	Operational Time:	705 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.5	0.3	0.2	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 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-May-07	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.22	0.31
2-May-07	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	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.23	0.30	
3-May-07	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.2	A	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24	0.34	
4-May-07	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	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.24	
5-May-07	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.21	
6-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.27	
7-May-07	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17	0.20	
8-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.22	
9-May-07	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	C	C	C	A	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.22	0.34	
10-May-07	0.3	0.2	0.2	0.2	0.2	A	0.4	0.6	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.4	0.5	0.4	0.4	0.32	0.58	
11-May-07	0.3	0.2	0.2	0.2	0.2	A	0.3	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	0.4	0.6	0.5	0.27	0.60		
12-May-07	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.25	
13-May-07	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	0.3	0.3	0.3	0.20	0.29		
14-May-07	0.3	0.3	A	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	M	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.28	
15-May-07	0.2	0.2	0.2	0.2	0.2	A	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.21	0.26	
16-May-07	0.2	0.2	0.3	0.2	A	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	0.21	0.35	
17-May-07	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	P	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	0.17	0.19	
18-May-07	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.23	
19-May-07	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.24	
20-May-07	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	0.20	0.23	
21-May-07	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-May-07	0.2	A	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.28	
23-May-07	A	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	0.2	0.2	0.2	0.3	0.4	A	0.20	0.43	
24-May-07	0.4	0.4	0.3	0.3	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	A	0.2	0.24	0.43	
25-May-07	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.3	A	0.3	0.3	0.21	0.31	
26-May-07	0.4	0.5	0.8	0.5	0.5	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	0.2	0.28	0.82	
27-May-07	0.2	0.2	0.2	0.2	0.2	0.2	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	0.17	0.22	
28-May-07	0.2	0.2	0.2	0.2	0.2	0.2	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	0.3	0.3	0.3	0.18	0.34	
29-May-07	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.3	0.3	0.3	0.3	0.24	0.35	
30-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.27	
31-May-07	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	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.29	
Hourly Avg	0.22	0.22	0.23	0.21	0.21	0.23	0.24	0.24	0.22	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.21	0.23	0.24	0.25	0.23		
Hourly Max	0.42	0.52	0.82	0.50	0.45	0.37	0.41	0.58	0.35	0.31	0.27	0.36	0.34	0.30	0.30	0.29	0.28	0.28	0.26	0.27	0.39	0.49	0.60	0.47			

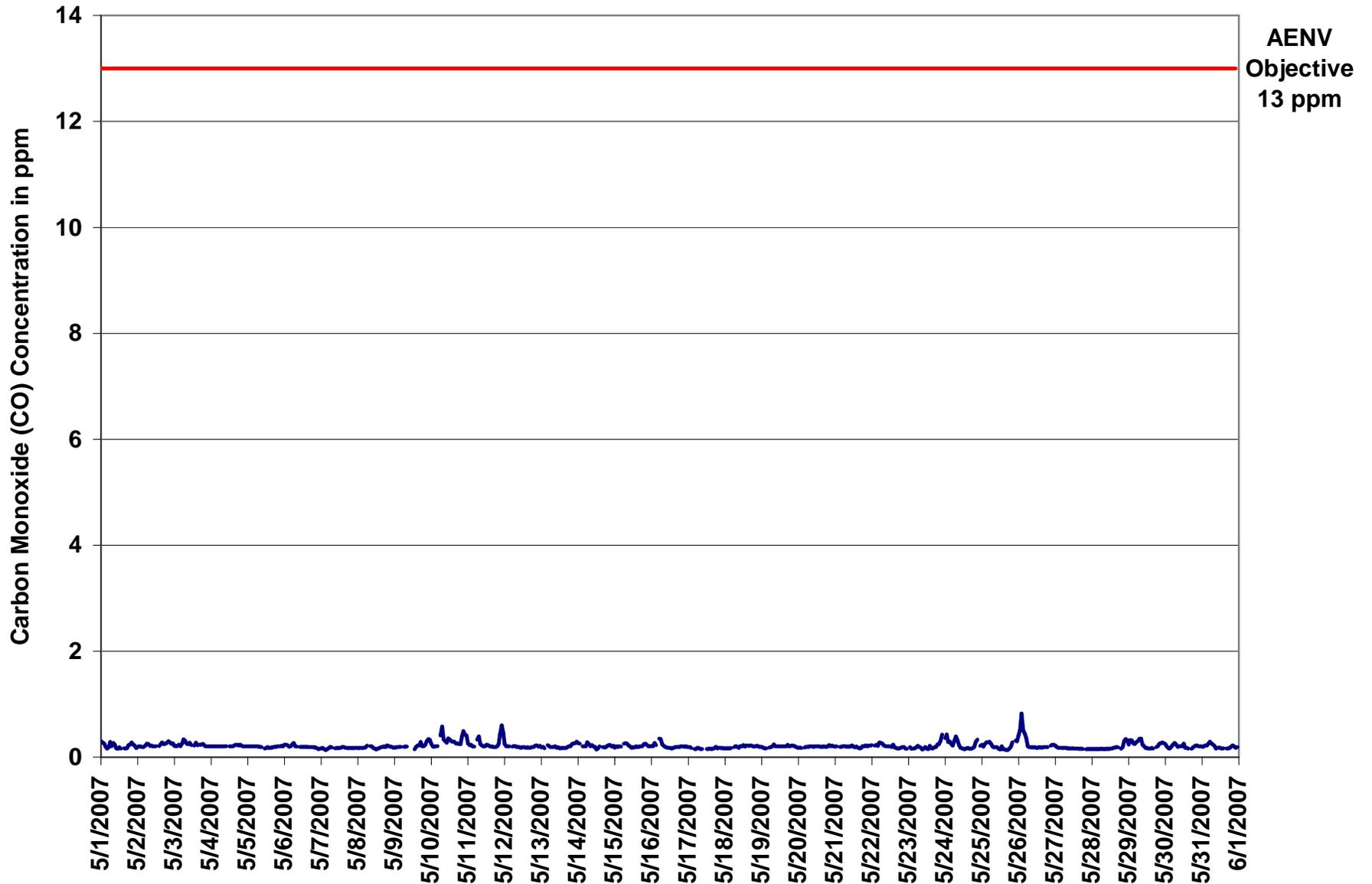


Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend

Station: Henry Pirker  
Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

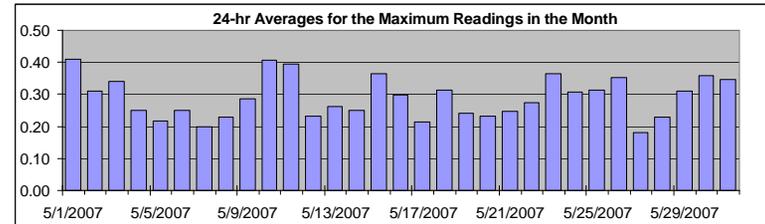
Carbon Monoxide (CO)

Monitoring Dates: May 1, 2007 to June 1, 2007

Summary

Maximum 1-hr Value:	2.4	ppm	30-May	12:00 13:00
Maximum 24-hr Value:	0.4	ppm	1-May	

AIC Time:	34 hrs					Operational Time:	705 hrs				
Calibration Time:	3 hrs					AMD Operational Uptime:	99.7%				
Percentile	99	95	75	50	25	5	1	Average		Median	
	1.1	0.6	0.3	0.2	0.2	0.2	0.2	0.3	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

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-hour Average	Daily Maximum	
1-May-07	0.4	0.6	0.4	0.3	0.3	0.3	0.5	0.3	0.4	0.5	0.3	0.2	0.8	0.4	A	0.3	0.2	0.3	1.0	0.4	0.4	0.5	0.9	0.2	0.41	0.97
2-May-07	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.7	0.3	0.3	0.3	A	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.31	0.67
3-May-07	0.3	0.3	0.5	0.3	0.3	0.4	0.6	0.4	0.4	0.3	0.6	0.3	A	0.3	0.6	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.34	0.60
4-May-07	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.3	0.2	0.3	0.3	0.25	0.45
5-May-07	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	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.22	0.25
6-May-07	0.4	0.4	0.3	0.2	0.3	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	0.2	0.2	0.2	0.2	0.2	0.25	0.63
7-May-07	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.23
8-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.23	0.33
9-May-07	0.2	0.2	0.2	0.2	0.2	A	0.3	0.2	0.2	C	C	C	A	0.2	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.5	0.5	0.5	0.29	0.54
10-May-07	0.3	0.2	0.2	0.2	0.3	A	0.7	0.8	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.6	0.6	0.5	0.5	0.41	0.79
11-May-07	0.3	0.3	0.3	0.2	0.2	A	0.6	0.7	0.3	0.3	0.3	0.3	1.1	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.7	0.7	0.7	0.39	1.15
12-May-07	0.3	0.2	0.2	0.2	A	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	0.3	0.3	0.3	0.3	0.3	0.3	0.23	0.30
13-May-07	0.2	0.2	0.2	A	0.3	0.4	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.6	0.26	0.59
14-May-07	0.3	0.3	A	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	M	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25	0.35
15-May-07	0.2	0.2	0.2	0.2	0.3	A	0.3	1.1	1.7	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.36	1.75
16-May-07	0.3	0.3	1.3	0.3	A	0.5	0.5	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	0.2	0.2	0.2	0.30	1.32
17-May-07	0.2	0.2	0.2	A	0.2	0.2	0.3	0.2	0.2	0.2	P	A	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.21	0.26
18-May-07	0.2	0.2	0.2	0.2	0.2	A	0.3	0.4	0.6	0.2	0.3	0.3	0.9	0.3	0.3	0.3	0.3	0.4	0.3	0.2	0.2	0.5	0.3	0.3	0.31	0.92
19-May-07	0.2	0.2	0.3	0.3	A	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.4	0.2	0.3	0.3	0.3	0.2	0.2	0.24	0.44
20-May-07	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.3	0.23	0.39
21-May-07	0.2	0.2	A	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.4	0.2	0.4	0.3	0.3	0.3	0.25	0.40
22-May-07	0.3	A	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.6	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.27	0.55
23-May-07	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.5	0.2	0.2	0.3	0.7	0.4	0.3	0.4	2.2	A	0.36	2.18
24-May-07	0.4	0.6	0.4	0.4	0.3	0.3	0.4	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	A	0.3	0.31	0.60
25-May-07	0.4	0.2	0.3	0.5	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	1.3	0.2	0.2	0.2	0.1	0.2	0.3	0.3	A	0.5	0.3	0.31	1.27
26-May-07	0.5	0.7	1.2	0.8	0.6	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	A	0.3	0.3	0.3	0.35	1.22
27-May-07	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	A	0.2	0.2	0.2	0.2	0.2	0.18	0.28
28-May-07	0.2	0.2	0.2	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	A	0.2	0.3	0.4	0.5	0.4	0.23	0.52
29-May-07	0.3	0.5	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.4	0.3	0.2	0.2	A	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.31	0.52
30-May-07	0.3	0.3	0.2	0.2	0.2	0.3	0.5	0.3	0.2	0.3	0.3	0.3	2.4	0.2	0.3	0.2	A	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.36	2.37
31-May-07	0.2	0.3	0.3	0.3	0.8	2.2	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.35	2.23
Hourly Avg	0.27	0.28	0.32	0.26	0.27	0.37	0.33	0.33	0.32	0.26	0.24	0.23	0.38	0.27	0.27	0.23	0.23	0.25	0.29	0.27	0.30	0.32	0.38	0.30		
Hourly Max	0.54	0.69	1.32	0.84	0.77	2.23	0.69	1.13	1.75	0.67	0.59	0.40	2.37	1.27	0.59	0.36	0.35	0.44	0.97	0.45	0.56	0.65	2.18	0.65		

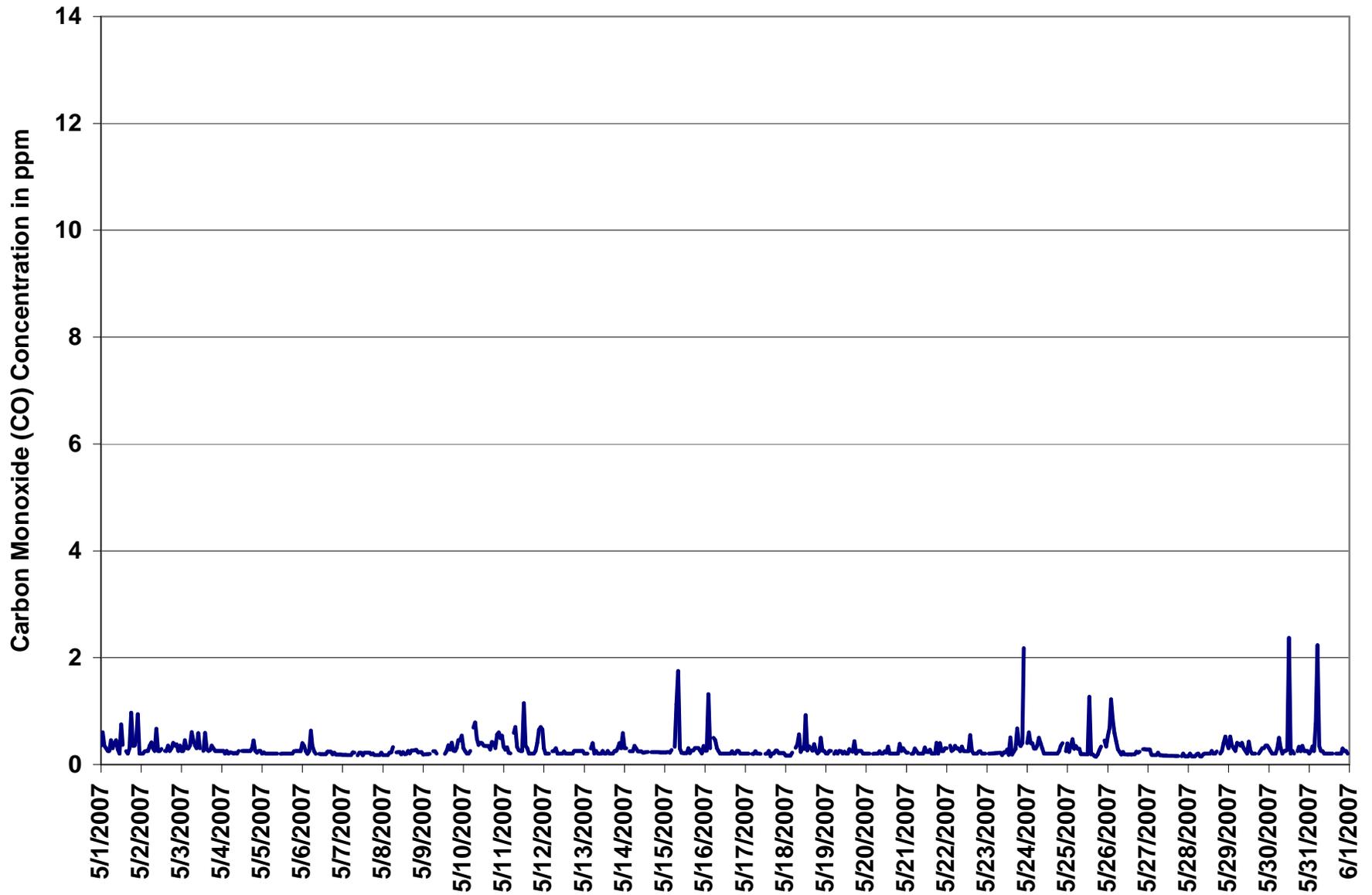
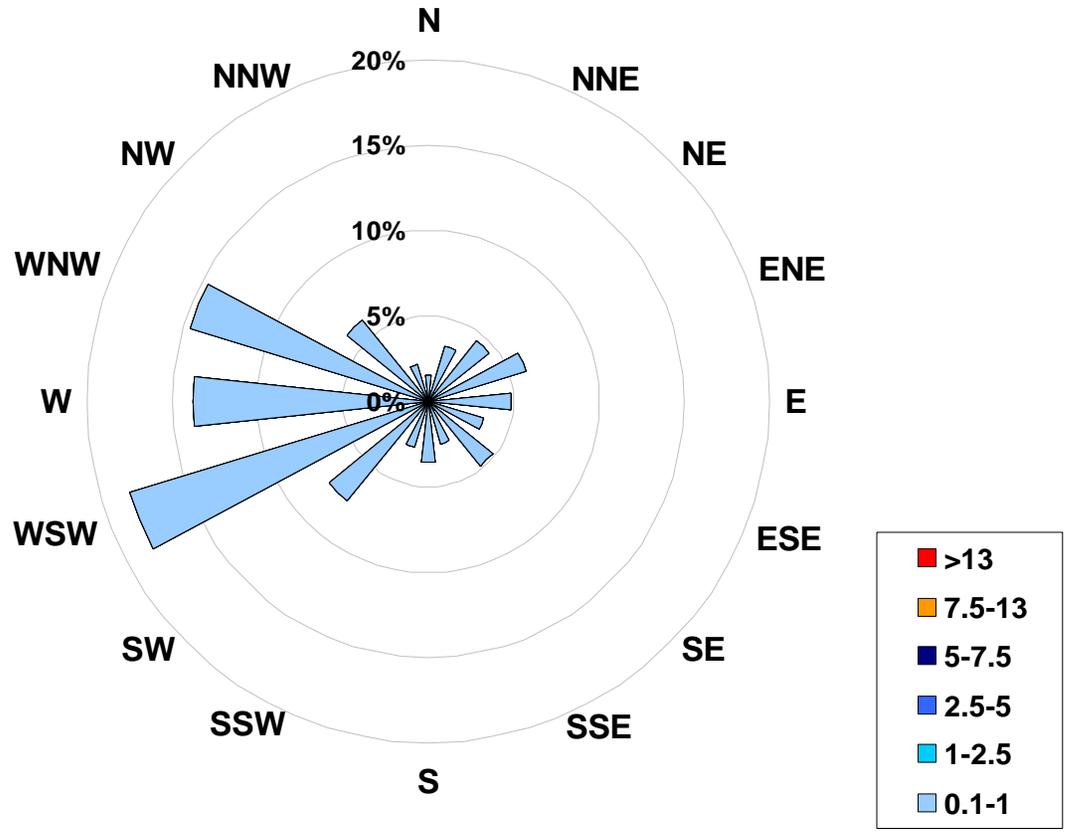


Figure 10. PASZA - Henry Pirker Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Carbon Monoxide (in ppm) Located at the Henry Pirker Site for May 2007**



**Calms: 0%**

Frequency Distribution of CO in ppm			Frequency (hrs)
Range			
0.1	<	1	705
1	to	2.5	0
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
	>	13	0
Total Non-Zero Values			705

# PASZA - Henry Pirker - Carbon Monoxide Eight Hour Average Summary

Station: Henry Pirker  
 Station Owner: PASZA

## EIGHT HOUR RUNNING AVERAGE TABLE

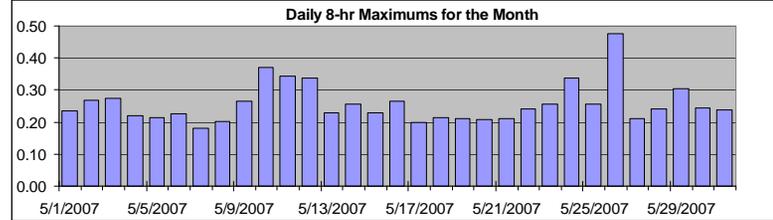
## Carbon Monoxide (CO)

Monitoring Dates: May 1, 2007 to June 1, 2007

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

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	0.5	ppm	26-May	4:00	5:00		

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



### Status Flag Characters

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

Day	Mountain Standard Time																								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-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
2-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.27
3-May-07	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.27
4-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
5-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
6-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
7-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18
8-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20
9-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N	N	N	N	N	N	N	N	N	0.2	0.2	0.2	0.3	0.3	0.27
10-May-07	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.37
11-May-07	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	0.3	0.3	0.34
12-May-07	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.34
13-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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-May-07	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26
15-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
16-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.27
17-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N	N	N	N	N	N	N	0.2	0.2	0.2	0.2	0.2	0.2	0.20
18-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
19-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
20-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
21-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
23-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.26
24-May-07	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	0.2	0.34
25-May-07	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26
26-May-07	0.3	0.3	0.4	0.5	0.5	0.5	0.4	0.4	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	0.2	0.48
27-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
28-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
29-May-07	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.30
30-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
31-May-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24

Hourly Max	0.34	0.34	0.41	0.45	0.48	0.46	0.45	0.44	0.41	0.36	0.33	0.35	0.37	0.36	0.35	0.31	0.30	0.30	0.29	0.28	0.29	0.31	0.33	0.34
------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

## PASZA - Henry Pirker - Total Hydrocarbons Monthly Summary

Station: Henry Pirker  
Station Owner: PASZA

### HOURLY AVERAGE TABLE

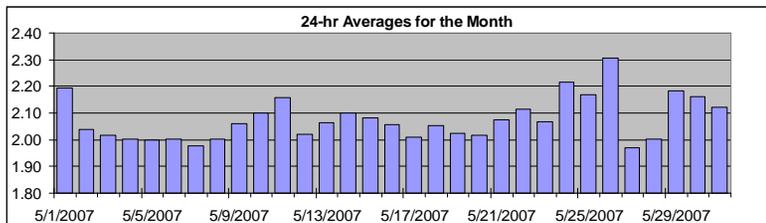
### Total Hydrocarbons (THC)

Monitoring Dates: May 1, 2007 to June 1, 2007

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

Summary						
Maximum 1-hr Average:	3.1	ppm	26-May	5:00	6:00	
Maximum 24-hr Value:	2.3	ppm	26-May			

AIC Time:	33 hrs	Operational Time:	707 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.6	2.4	2.1	2.0	2.0	2.0	1.9	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	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-May-07	2.5	2.4	2.4	2.4	2.2	2.4	2.5	2.5	2.4	2.2	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.20	2.52
2-May-07	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.04	2.09	
3-May-07	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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	2.02	2.09	
4-May-07	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	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.00	2.03	
5-May-07	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.00	2.03	
6-May-07	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	A	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	2.0	2.0	2.00	2.15	
7-May-07	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.98	2.00	
8-May-07	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.00	2.04	
9-May-07	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.06	2.23	
10-May-07	2.2	2.1	2.1	2.2	2.3	A	2.4	2.3	2.2	C	C	A	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.1	2.2	2.2	2.2	2.2	2.10	2.37		
11-May-07	2.2	2.2	2.2	2.3	2.4	A	2.5	2.4	2.1	2.1	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.4	2.3	2.16	2.51			
12-May-07	2.2	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.02	2.15			
13-May-07	2.1	2.1	2.1	A	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.06	2.25			
14-May-07	2.3	2.3	A	2.3	2.3	2.1	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.0	M	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.10	2.35			
15-May-07	2.1	2.1	2.2	2.2	2.2	A	2.2	2.2	2.2	2.1	2.1	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	2.0	2.08	2.22		
16-May-07	2.1	2.1	2.2	2.2	A	2.6	2.4	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.06	2.59		
17-May-07	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	P	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.01	2.04		
18-May-07	2.0	2.0	2.0	2.0	2.0	A	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	2.0	2.0	2.0	2.0	2.0	2.05	2.10		
19-May-07	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.02	2.06		
20-May-07	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.02	2.13			
21-May-07	2.1	2.1	A	2.2	2.2	2.3	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.07	2.26		
22-May-07	2.2	A	2.2	2.3	2.4	2.4	2.2	2.1	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.11	2.41		
23-May-07	A	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	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.3	A	2.07	2.26		
24-May-07	2.4	2.6	2.3	2.5	2.6	2.4	2.3	2.4	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	A	2.1	2.21	2.57		
25-May-07	2.1	2.2	2.3	2.4	2.7	2.6	2.2	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	A	2.3	2.3	2.17	2.66		
26-May-07	2.9	2.9	3.1	3.1	3.1	3.1	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.1	2.1	2.31	3.13			
27-May-07	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	1.9	1.9	1.9	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	1.97	2.03			
28-May-07	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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	2.0	2.0	2.1	2.3	2.3	2.00	2.27		
29-May-07	2.2	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.1	2.2	2.2	2.18	2.44		
30-May-07	2.3	2.3	2.3	2.3	2.5	2.6	2.4	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.16	2.57		
31-May-07	2.1	2.2	2.3	2.5	2.3	2.2	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.1	2.12	2.51			
Hourly Avg	2.14	2.15	2.15	2.19	2.22	2.22	2.15	2.12	2.09	2.05	2.03	2.02	2.01	2.01	2.01	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.03	2.05	2.09	2.10			
Hourly Max	2.93	2.94	3.11	3.07	3.12	3.13	2.52	2.48	2.41	2.23	2.11	2.09	2.09	2.06	2.07	2.08	2.06	2.07	2.05	2.08	2.15	2.17	2.40	2.34					

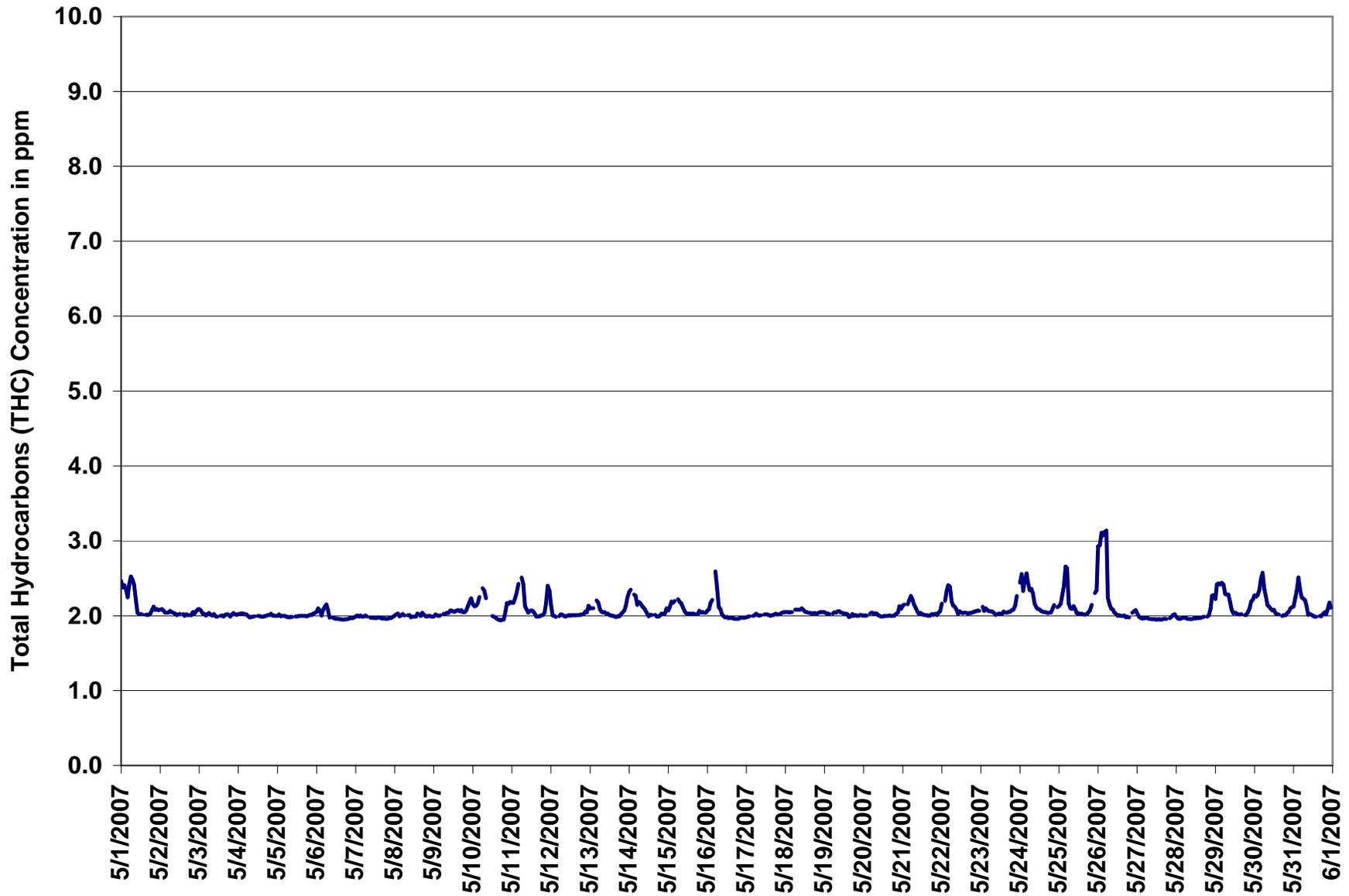


Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

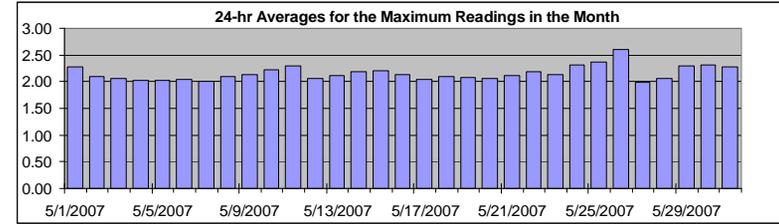
### INSTANTANEOUS (30 Second) MAXIMUM TABLE

### Total Hydrocarbons (THC)

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	4.6	ppm	26-May	2:00 3:00
Maximum 24-hr Value:	2.6	ppm	26-May	



AIC Time:	33 hrs	Operational Time:	707 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.6	2.6	2.2	2.1	2.0	2.0	2.0	2.2 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**

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-May-07	2.6	2.6	2.7	2.5	2.3	2.5	2.6	2.6	2.5	2.4	2.1	2.0	2.1	2.1	A	2.0	2.0	2.0	2.1	2.1	2.2	2.1	2.2	2.1	2.28	2.67	
2-May-07	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.0	2.0	2.1	A	2.0	2.0	2.1	2.1	2.0	2.1	2.2	2.1	2.1	2.1	2.09	2.20	
3-May-07	2.1	2.1	2.1	2.2	2.0	2.1	2.2	2.1	2.0	2.1	2.1	2.0	A	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.06	2.18	
4-May-07	2.0	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.03	2.06	
5-May-07	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.03	2.11	
6-May-07	2.1	2.2	2.2	2.0	2.3	2.2	2.2	2.2	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	2.05	2.29	
7-May-07	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.00	2.03	
8-May-07	2.1	2.1	2.1	2.0	2.1	2.0	2.1	A	2.0	2.0	2.1	2.6	2.0	2.0	2.7	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.10	2.70	
9-May-07	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.7	2.3	2.4	2.13	2.68	
10-May-07	2.2	2.2	2.2	2.2	2.4	A	2.6	2.4	2.3	C	C	A	2.0	2.0	2.0	2.7	2.0	2.0	2.0	2.0	2.3	2.3	2.4	2.4	2.22	2.74	
11-May-07	2.3	2.3	2.3	2.4	2.7	A	2.6	2.6	2.2	2.3	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.3	3.0	2.8	2.29	3.01	
12-May-07	2.3	2.1	2.0	2.0	A	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.2	2.06	2.29	
13-May-07	2.2	2.1	2.1	A	2.3	2.3	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.3	2.5	2.12	2.49	
14-May-07	2.7	2.5	A	2.8	2.3	2.2	2.3	2.2	2.2	2.2	2.2	2.1	2.0	2.1	2.0	M	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.1	2.19	2.83	
15-May-07	2.1	2.1	2.4	2.2	2.4	A	2.3	2.4	3.6	2.2	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.0	2.2	2.1	2.1	2.1	2.1	2.1	2.21	3.64	
16-May-07	2.1	2.1	2.6	2.5	A	2.8	2.7	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.14	2.81	
17-May-07	2.0	2.0	2.0	A	2.0	2.0	2.1	2.0	2.0	2.0	P	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	2.03	2.07	
18-May-07	2.1	2.1	2.1	2.1	2.1	A	2.1	2.1	2.2	2.1	2.4	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	2.10	2.36	
19-May-07	2.1	2.1	2.1	2.1	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.6	2.0	2.0	2.1	2.0	2.1	2.0	2.08	2.56	
20-May-07	2.0	2.0	2.0	A	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.1	2.1	2.3	2.2	2.06	2.26	
21-May-07	2.2	2.2	A	2.2	2.3	2.4	2.3	2.2	2.2	2.1	2.0	2.1	2.1	2.0	2.0	2.0	2.1	2.0	2.1	2.0	2.0	2.0	2.1	2.2	2.12	2.36	
22-May-07	2.4	A	2.4	2.4	2.6	2.6	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.20	2.58	
23-May-07	A	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	3.0	A	2.14	2.97
24-May-07	2.6	2.8	2.6	2.6	2.7	2.6	2.4	2.5	2.4	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	A	2.2	2.31	2.81	
25-May-07	2.2	2.4	2.5	2.6	2.9	3.0	2.2	2.2	2.1	2.3	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.2	2.3	2.3	2.4	A	3.6	2.5	2.38	3.59
26-May-07	3.8	3.8	4.6	3.5	3.8	3.8	3.2	2.3	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	A	2.1	2.2	2.2	2.2	2.61	4.59	
27-May-07	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.1	1.99	2.11	
28-May-07	2.0	2.0	2.0	2.0	2.0	2.0	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	2.0	2.1	2.2	2.6	2.6	2.06	2.65	
29-May-07	2.4	2.6	2.7	2.7	2.7	2.6	2.4	2.3	2.3	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.3	A	2.1	2.0	2.1	2.2	2.3	2.3	2.29	2.69	
30-May-07	2.5	2.4	2.4	2.5	2.7	2.9	2.5	2.4	2.2	2.2	2.2	2.2	3.6	2.1	2.0	2.0	A	2.0	2.0	2.0	2.1	2.1	2.2	2.2	2.32	3.58	
31-May-07	2.2	2.4	2.4	3.2	2.6	2.6	2.3	2.4	2.3	2.1	2.1	2.1	2.1	2.1	2.0	A	2.1	2.1	2.2	2.2	2.1	2.2	2.2	2.3	2.27	3.21	
Hourly Avg	2.25	2.26	2.30	2.32	2.35	2.34	2.26	2.19	2.18	2.11	2.08	2.08	2.10	2.04	2.07	2.06	2.04	2.06	2.05	2.06	2.09	2.11	2.24	2.19			
Hourly Max	3.80	3.83	4.59	3.47	3.80	3.77	3.22	2.64	3.64	2.42	2.36	2.56	3.58	2.14	2.70	2.74	2.31	2.56	2.27	2.31	2.36	2.68	3.59	2.84			

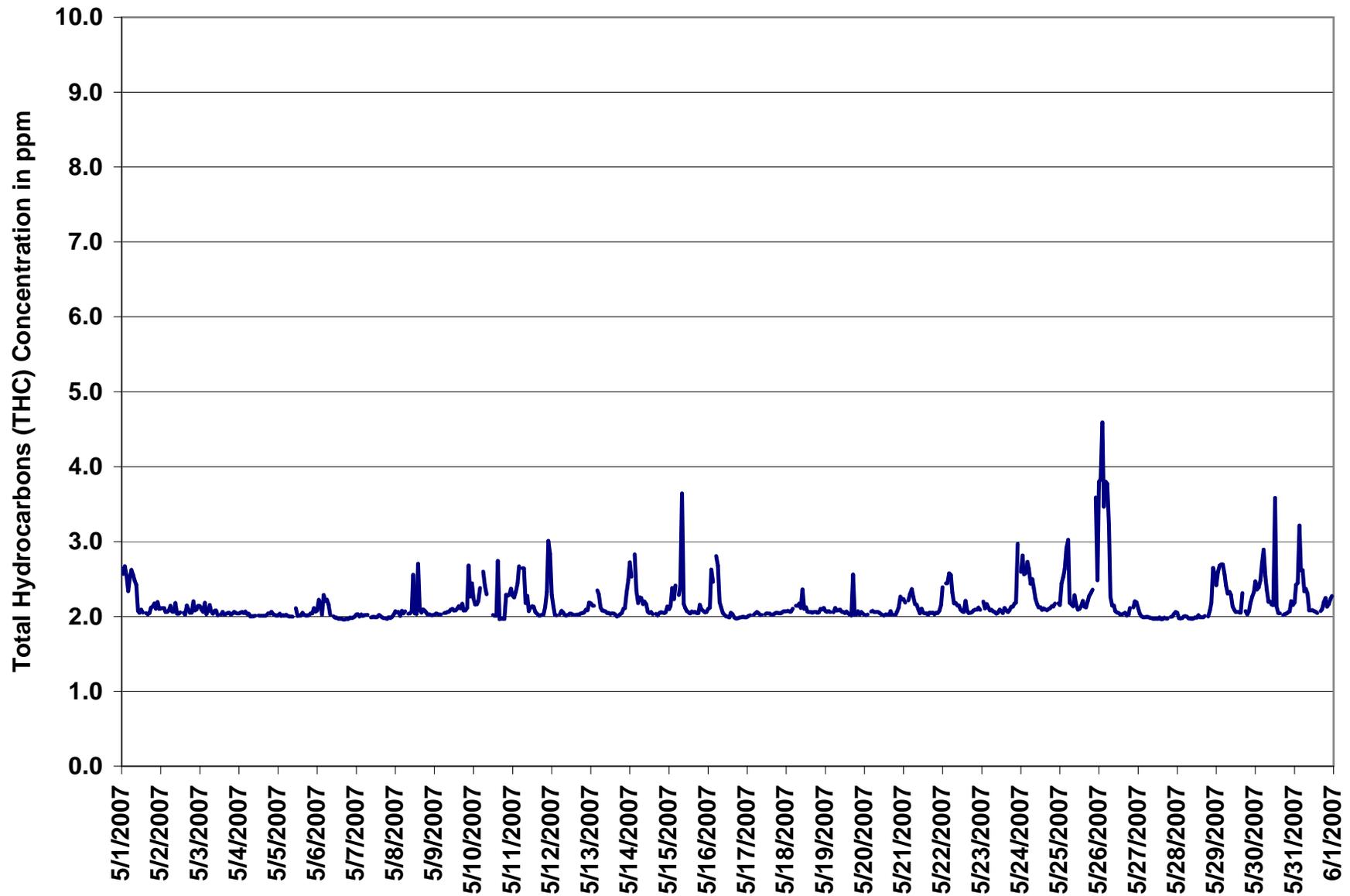
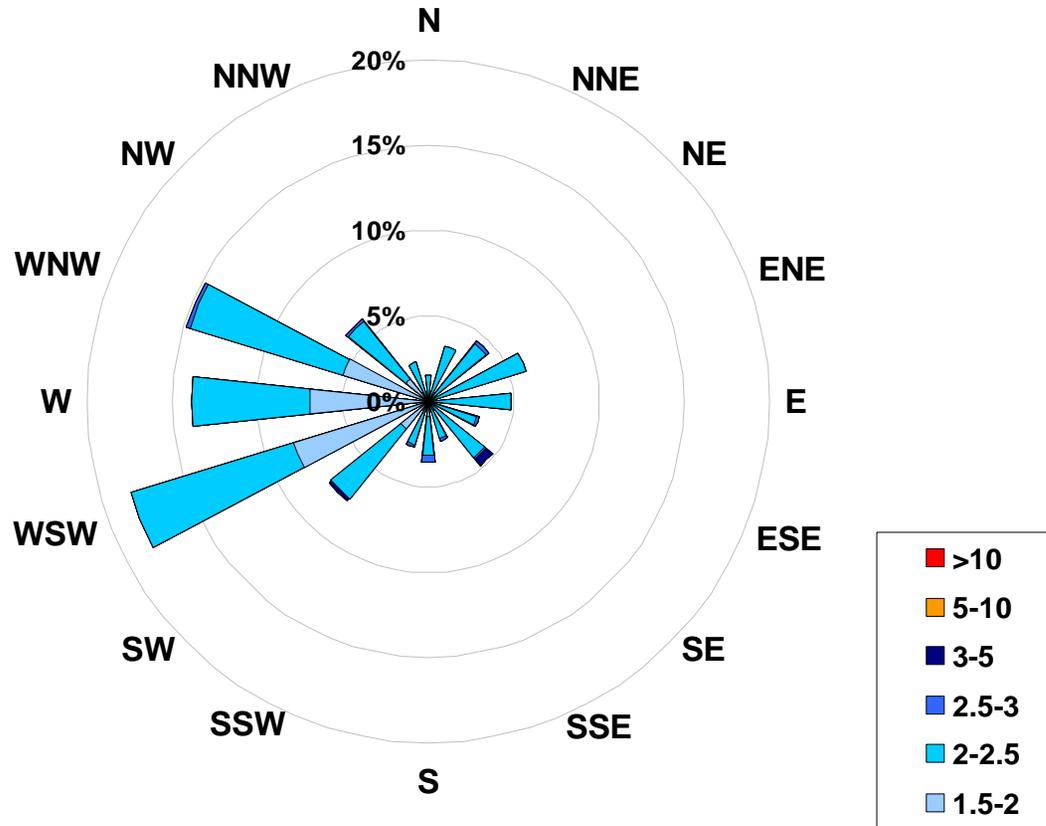


Figure 12. PASZA - Henry Pirker Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Hydrocarbons (in ppm)  
Located at the Henry Pirker Site for May 2007**



**Calms: 0%**

Frequency Distribution of THC in ppm			Frequency (hrs)
Range			
1.5	<	2	186
2	to	2.5	506
2.5	to	3	11
3	to	5	4
5	to	10	0
	>	10	0
Total Non-Zero Values			707

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

Station: Henry Pirker  
 Station Owner: PASZA

#### HOURLY AVERAGE TABLE

#### Total Reduced Sulphur (TRS)

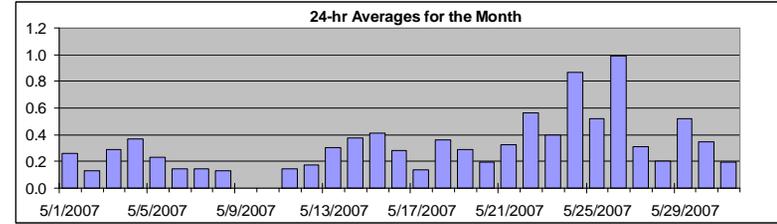
Monitoring Dates: May 1, 2007 to June 1, 2007

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

Summary

Maximum 1-hr Average:	4.6	ppb	26-May	3:00 4:00
Maximum 24-hr Value:	1.0	ppb	26-May	

AIC Time:	33 hrs	Operational Time:	681 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	97.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.4	0.8	0.4	0.3	0.1	0.0	0.0	0.3 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-May-07	0	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
2-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
3-May-07	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
4-May-07	0	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	0	1	0	0.4	0.6	
5-May-07	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0.2	0.5	
6-May-07	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	0.5	
7-May-07	0	0	0	0	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
8-May-07	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
9-May-07	0	0	0	0	0	A	0	0	0	C	C	C	C	C	S	S	S	S	S	S	S	S	S	S	N	0.3	
10-May-07	S	S	S	S	S	S	S	S	S	S	C	C	C	A	0	0	0	0	0	0	0	0	0	0	N	0.3	
11-May-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
12-May-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	0.6	
13-May-07	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8	
14-May-07	0	0	A	1	1	1	1	0	1	0	0	0	A	0	M	0	0	0	0	0	0	1	0	0	0.4	0.8	
15-May-07	0	0	1	1	1	A	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.4	
16-May-07	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9	
17-May-07	0	0	0	A	0	0	0	0	0	0	P	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
18-May-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	
19-May-07	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	0.4	
20-May-07	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	
21-May-07	0	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
22-May-07	0	A	0	2	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	3.2	
23-May-07	A	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	0.4	0.7	
24-May-07	1	0	0	1	5	4	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.9	4.5	
25-May-07	0	0	1	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	1	0.5	2.2	
26-May-07	1	1	1	5	4	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	0	1.0	4.6	
27-May-07	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.3	0.6	
28-May-07	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-May-07	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.5	1.2	
30-May-07	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.3	1.0	
31-May-07	0	0	0	0	1	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.2	1.1	
Hourly Avg	0.4	0.4	0.4	0.6	0.8	0.8	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	0.3		
Hourly Max	1.3	1.0	1.2	4.6	4.5	4.1	1.2	1.2	0.7	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.6	0.5	0.6	1.3			

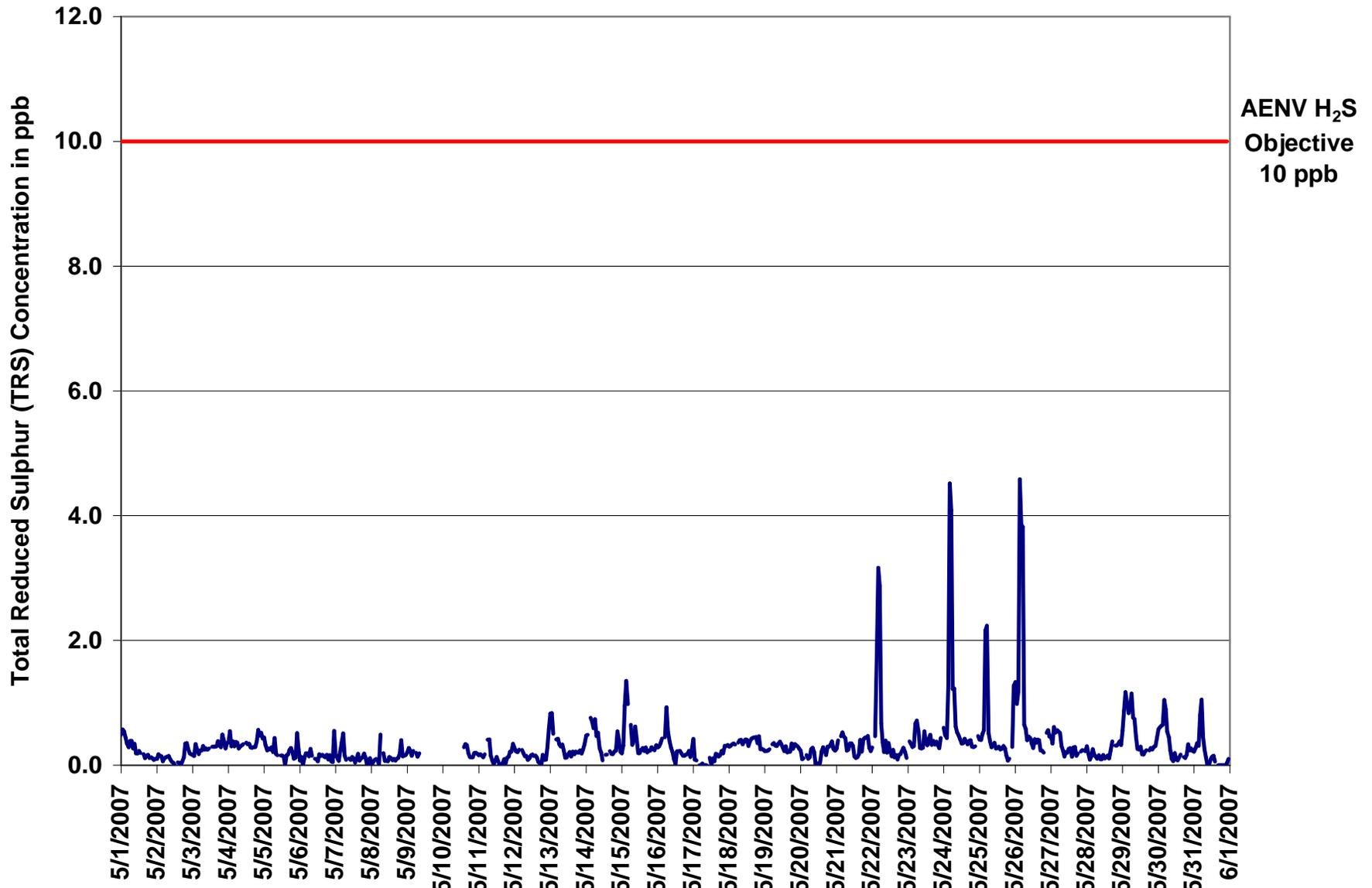


Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

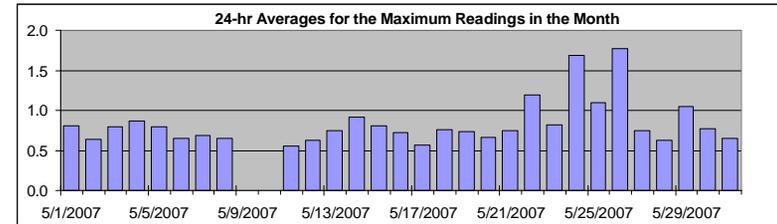
### INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	8.9	ppb	24-May	4:00 5:00
Maximum 24-hr Value:	1.8	ppb	26-May	



AIC Time:	33 hrs	Operational Time:	681 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	97.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	4.6	1.5	0.8	0.7	0.6	0.4	0.3	0.8 ppb	0.7 ppb

**Status Flag Characters**

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

Day	Mountain Standard Time																								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-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3
2-May-07	1	1	1	1	0	1	1	1	1	1	0	0	0	1	A	1	1	0	1	1	1	1	1	1	1	0.6	0.9
3-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3
4-May-07	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	0.9	1.4
5-May-07	1	1	1	1	1	1	1	2	1	1	A	1	1	1	0	1	1	1	1	1	0	1	2	1	1	0.8	1.7
6-May-07	0	1	0	1	1	1	1	1	1	A	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.3
7-May-07	1	1	1	1	1	2	1	1	A	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	0.7	1.7
8-May-07	0	0	1	1	1	0	1	A	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	1.4
9-May-07	1	1	1	1	1	A	1	1	1	C	C	C	C	C	S	S	S	S	S	S	S	S	S	S	S	N	0.9
10-May-07	S	S	S	S	S	S	S	S	S	S	C	C	C	A	1	1	1	0	1	0	0	0	1	1	1	N	0.8
11-May-07	0	1	1	1	1	A	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0.6	1.0
12-May-07	1	1	1	1	A	1	0	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1	0.6	1.2
13-May-07	2	2	1	A	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.6
14-May-07	1	1	A	1	1	2	1	2	1	1	1	1	A	1	0	M	1	1	1	1	1	1	1	1	1	0.9	1.6
15-May-07	1	1	2	2	1	A	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0.8	2.0
16-May-07	1	1	1	1	A	1	2	1	1	1	1	1	0	1	1	1	1	1	0	1	0	1	1	1	1	0.7	1.9
17-May-07	1	0	0	A	0	0	0	0	0	0	P	1	0	1	0	1	1	1	1	1	1	1	1	1	1	0.6	1.4
18-May-07	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	0.8	0.9
19-May-07	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	1.2
20-May-07	1	1	1	A	1	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0.7	1.0
21-May-07	1	1	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0
22-May-07	1	A	1	5	4	5	2	1	1	1	1	1	1	0	1	1	0	0	1	1	0	1	1	1	1	1.2	5.3
23-May-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.1
24-May-07	1	1	1	2	9	8	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.7	8.9
25-May-07	1	1	1	1	5	4	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	A	1	2	1	1.1	4.9
26-May-07	2	1	2	8	6	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1.8	8.1
27-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	A	1	1	1	1	1	0.7	1.3
28-May-07	1	1	0	1	1	1	1	0	1	1	1	1	0	1	1	0	1	1	A	1	1	1	1	1	1	0.6	0.8
29-May-07	1	2	2	1	1	2	2	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1.0	2.3
30-May-07	1	1	1	1	1	1	1	1	1	0	0	1	0	1	0	0	A	1	1	1	1	1	1	1	1	0.8	1.5
31-May-07	1	1	1	1	2	2	1	1	1	0	0	1	1	1	0	A	0	0	0	0	0	0	0	0	1	0.6	2.1
Hourly Avg	0.8	0.8	0.9	1.4	1.7	1.7	1.0	0.9	0.7	0.7	0.6	0.7	0.6	0.7	0.6	0.6	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.9			
Hourly Max	2.1	1.7	2.0	8.1	8.9	8.0	2.3	3.3	1.3	1.3	0.9	1.0	0.9	0.9	1.0	1.0	0.9	0.9	0.9	1.1	1.4	1.5	1.7	2.3			

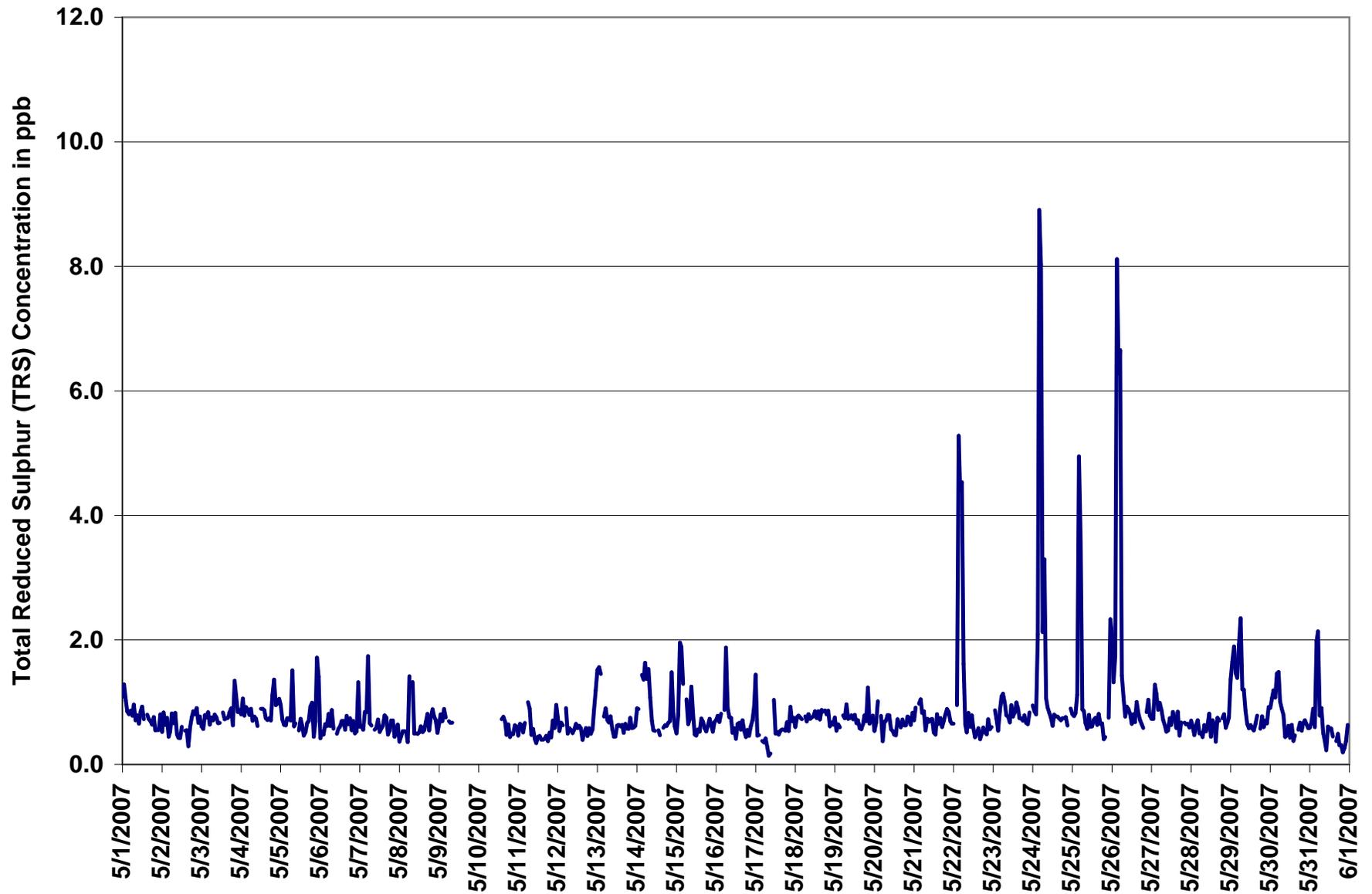
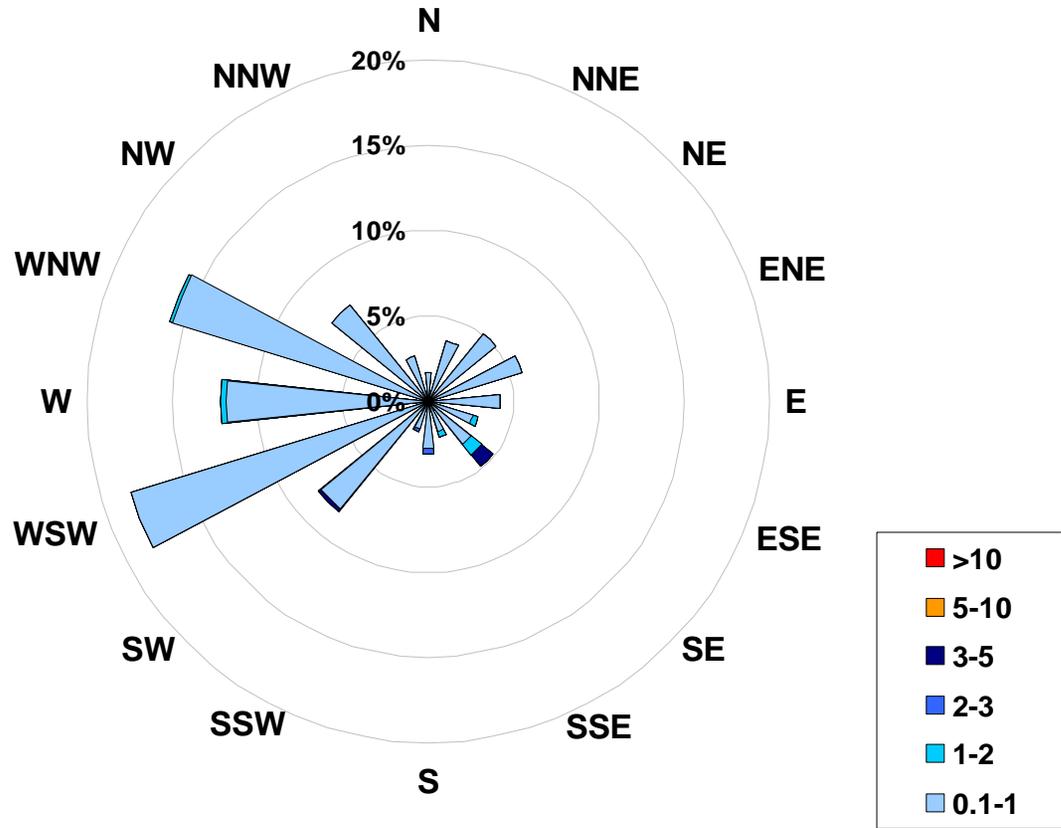


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)  
Located at the Henry Pirker Site for May 2007**



**Calms: 0%**

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	660
1	to	2	12
2	to	3	3
3	to	5	6
5	to	10	0
	>	10	0
Total Non-Zero Values			681

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

Station: Henry Pirker  
Station Owner: PASZA

### HOURLY AVERAGE TABLE

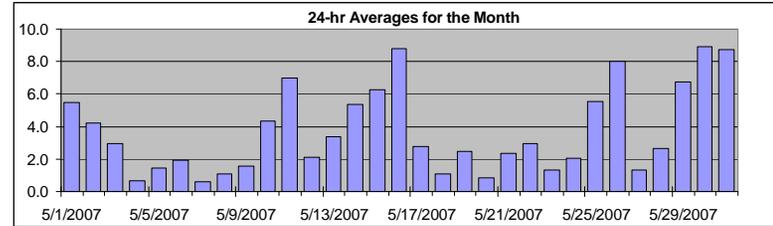
### Particulate Matter (PM<sub>2.5</sub>)

Monitoring Dates: May 1, 2007 to June 1, 2007

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:	32.8 µg/m <sup>3</sup>	26-May	2:00 3:00
Maximum 24-hr Value:	8.9 µg/m <sup>3</sup>	30-May	

AIC Time:	0 hrs	Operational Time:	742 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	19.2	11.3	5.0	2.7	1.1	0.0	0.0	3.7 3 µg/m <sup>3</sup>	2.8 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-May-07	12	6	7	7	3	3	8	9	8	8	1	1	3	1	2	3	3	2	4	8	4	8	5.5	16.2		
2-May-07	4	5	4	4	3	4	4	5	4	3	4	4	4	4	6	4	4	4	6	4	6	5	3	3	4.2	6.3
3-May-07	3	3	4	3	2	4	4	3	4	3	4	3	2	3	4	5	3	4	3	3	3	2	1	0	3.0	5.0
4-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	3	3	2	3	1	0	1	0	0.7	3.1
5-May-07	1	0	0	0	1	1	0	0	0	1	0	1	2	1	2	2	2	3	3	2	2	3	4	3	1.4	3.6
6-May-07	3	3	2	2	2	2	5	4	0	1	1	1	3	3	1	1	1	2	2	2	2	1	2	2	1.9	4.8
7-May-07	1	1	1	0	2	1	2	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.6	1.9
8-May-07	0	1	0	0	0	0	0	2	2	2	1	0	0	2	1	1	0	1	1	4	2	2	2	2	1.1	4.5
9-May-07	1	2	2	1	1	1	1	1	2	1	1	1	1	1	2	1	3	1	0	1	2	2	5	5	1.6	5.2
10-May-07	1	0	1	1	2	5	7	5	5	3	3	3	2	3	3	2	2	3	3	4	12	12	11	10	4.3	12.3
11-May-07	7	6	5	4	4	5	8	10	6	4	6	6	5	8	4	4	4	4	4	5	5	13	21	20	7.0	21.1
12-May-07	10	4	1	2	2	2	2	2	0	0	0	1	1	1	1	1	1	3	3	3	3	3	3	3	2.1	10.1
13-May-07	3	2	2	2	3	3	3	3	2	2	0	2	1	1	2	2	3	3	4	5	7	7	7	11	3.3	10.7
14-May-07	12	9	6	6	4	4	7	8	6	5	3	2	1	3	3	M	3	3	4	7	11	7	6	6	5.4	12.4
15-May-07	4	4	5	6	5	8	8	9	10	7	4	4	5	4	6	5	6	6	6	10	9	7	6	7	6.2	9.9
16-May-07	7	8	10	13	14	18	18	13	12	7	5	5	4	3	5	7	7	7	6	9	11	10	7	5	8.8	18.1
17-May-07	3	3	3	2	1	4	6	4	2	1	P	1	0	0	1	1	3	4	4	6	4	5	2	2	2.8	6.4
18-May-07	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0	1	1	1	1	2	2	3	2	1.1	3.4
19-May-07	1	1	2	2	1	1	2	3	5	4	3	2	3	3	3	0	2	4	5	4	8	1	0	0	2.5	7.5
20-May-07	1	0	0	0	1	2	1	0	1	0	0	2	0	0	0	0	1	0	1	1	4	3	1	1	0.8	3.9
21-May-07	2	2	2	1	2	3	3	3	2	1	2	6	1	1	2	0	1	2	4	5	3	5	3	2	2.4	6.2
22-May-07	4	7	3	5	6	7	5	4	3	3	5	6	2	2	1	0	1	0	0	2	2	2	0	1	2.9	7.1
23-May-07	3	4	1	2	1	0	1	0	0	0	1	2	1	2	2	0	0	3	0	1	1	2	3	2	1.4	3.7
24-May-07	1	3	1	3	2	3	5	6	3	0	1	0	0	0	0	1	0	0	0	2	5	6	4	4	2.1	6.0
25-May-07	3	3	4	5	7	6	5	4	3	5	4	2	2	3	3	3	3	4	4	8	11	14	15	14	5.5	15.0
26-May-07	20	22	33	21	17	15	3	5	3	4	2	3	3	3	3	4	3	2	3	2	6	6	5	4	8.0	32.8
27-May-07	3	1	0	1	2	1	0	0	0	0	0	0	1	0	0	0	1	0	2	2	3	3	5	6	1.3	5.5
28-May-07	1	1	0	0	1	1	2	2	1	1	1	1	2	2	3	4	5	5	4	3	4	7	6	7	2.6	7.4
29-May-07	6	6	6	6	7	9	12	14	15	6	6	4	4	4	3	3	3	4	5	5	8	8	7	11	6.7	14.8
30-May-07	19	11	9	6	7	8	9	11	8	9	7	6	6	5	5	4	5	8	8	9	21	14	10	8.9	21.3	
31-May-07	11	8	9	11	7	14	21	16	10	1	3	4	3	3	3	4	6	6	7	6	11	16	14	16	8.7	21.3
Hourly Avg	4.7	4.1	3.9	3.8	3.5	4.4	5.0	4.7	3.8	2.7	2.2	2.4	2.0	2.2	2.3	2.2	2.5	2.8	3.2	4.2	5.5	5.9	5.3	5.2		
Hourly Max	19.6	22.5	32.8	21.0	17.2	18.1	21.3	16.2	14.8	8.9	6.6	6.5	6.1	7.7	6.1	6.6	6.9	7.0	8.2	9.7	16.2	21.3	21.1	19.6		

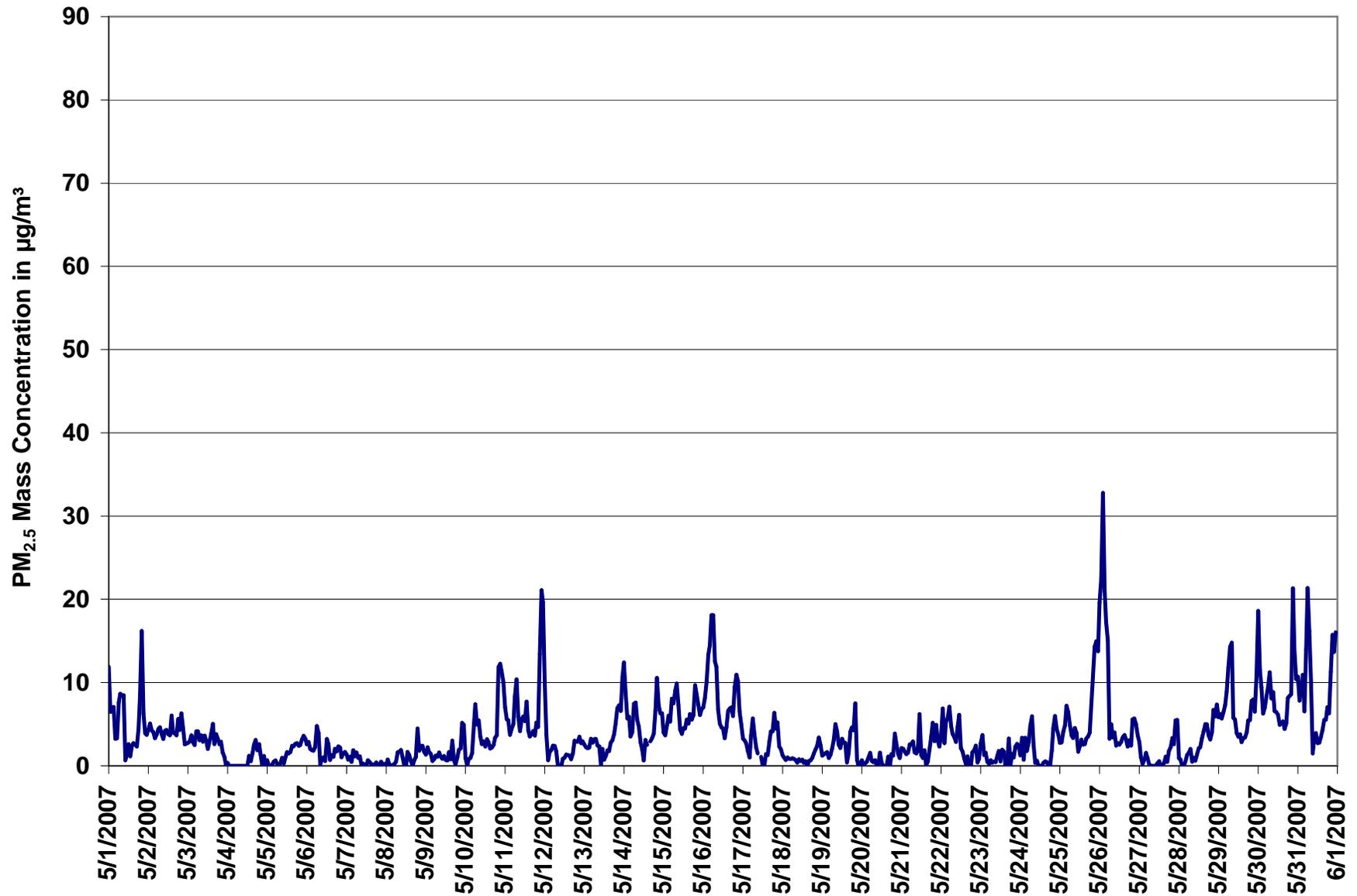


Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Henry Pirker  
Station Owner: PASZA

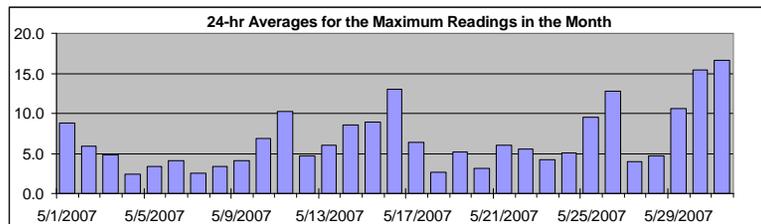
### INSTANTANEOUS (30 Second) MAXIMUM TABLE

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

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Average:	37.7	µg/m <sup>3</sup>	26-May	2:00 3:00
Maximum 24-hr Value:	16.6	µg/m <sup>3</sup>	31-May	



AIC Time:	0 hrs	Operational Time:	742 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	27.3	17.5	8.3	5.2	3.4	1.7	0.7	6.8	5 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**

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-07	19	9	11	9	4	6	14	12	11	13	2	5	6	3	4	5	4	4	7	18	25	9	5	5	8.9	24.9
2-May-07	6	6	6	5	5	5	6	6	6	5	6	6	6	6	8	6	6	5	7	6	8	8	4	4	5.9	8.0
3-May-07	4	5	5	4	4	6	6	5	5	5	6	5	4	4	6	10	5	6	5	4	6	4	3	1	4.8	9.7
4-May-07	3	2	0	1	1	1	1	3	2	1	2	1	2	4	2	3	5	4	4	5	3	2	3	2	2.4	4.7
5-May-07	2	2	1	1	2	2	2	2	2	2	2	3	4	4	4	5	5	5	4	5	5	6	6	4	3.3	5.8
6-May-07	4	4	3	4	3	4	7	6	2	3	3	2	7	4	4	4	4	5	4	4	4	5	4	4	4.1	6.7
7-May-07	4	5	3	3	4	3	3	4	3	1	2	2	1	5	4	1	1	2	3	1	1	2	2	2	2.6	4.6
8-May-07	2	2	4	2	1	2	3	4	4	4	4	1	1	4	2	2	2	3	8	10	4	5	4	3	3.4	9.9
9-May-07	3	4	3	3	2	2	3	2	4	4	3	3	3	2	4	2	7	4	3	3	3	9	13	10	4.1	12.7
10-May-07	3	1	2	2	3	7	9	8	7	6	6	8	5	6	5	4	4	4	5	5	21	16	17	13	6.9	20.8
11-May-07	10	6	8	5	7	7	11	14	8	6	8	8	8	16	11	6	6	6	6	7	10	17	27	27	10.3	27.4
12-May-07	14	8	3	3	4	5	4	4	2	1	3	3	4	4	3	3	3	3	9	8	5	5	4	5	4.7	14.3
13-May-07	4	4	3	5	6	4	5	5	4	4	3	7	5	4	5	6	5	6	6	7	10	10	9	18	6.0	18.2
14-May-07	17	13	9	9	5	6	12	12	8	7	7	6	3	7	5	M	6	7	7	11	12	10	8	10	8.6	17.3
15-May-07	6	5	7	10	9	12	10	12	13	10	7	8	9	7	9	9	9	7	8	13	11	9	8	9	8.9	12.8
16-May-07	8	11	16	18	20	22	25	20	15	14	8	7	8	8	10	12	12	12	10	12	15	14	9	7	13.0	24.7
17-May-07	5	5	4	4	5	6	11	12	5	3	P	3	3	4	5	8	7	13	6	12	8	10	5	3	6.3	13.1
18-May-07	3	3	3	3	2	2	2	2	2	1	3	2	2	3	2	2	2	2	2	3	3	4	5	4	2.6	4.7
19-May-07	3	2	2	3	2	3	3	5	7	7	5	4	6	6	6	7	5	10	6	7	14	6	1	2	5.2	14.2
20-May-07	2	1	2	2	3	4	2	2	3	2	2	3	2	3	3	3	5	4	7	4	7	5	3	2	3.2	7.3
21-May-07	5	4	4	3	3	4	4	4	3	5	5	14	14	7	6	6	4	5	6	12	6	9	6	6	6.1	13.8
22-May-07	6	10	6	7	7	9	8	6	5	5	9	11	5	4	3	4	5	2	2	4	4	4	3	2	5.6	11.4
23-May-07	5	6	4	3	2	2	2	2	2	3	4	4	5	5	6	3	3	10	4	6	3	5	5	6	4.2	9.6
24-May-07	3	6	3	7	4	5	7	16	5	4	4	2	2	4	4	4	4	6	4	4	7	8	5	6	5.1	15.5
25-May-07	4	5	7	7	10	9	7	8	6	8	7	6	9	8	8	7	8	9	9	14	13	18	24	15	9.5	24.4
26-May-07	28	27	38	35	26	26	7	8	7	7	5	6	7	7	7	6	7	5	6	6	9	9	8	7	12.8	37.7
27-May-07	7	3	1	2	3	3	2	0	0	1	3	4	4	3	6	4	5	4	3	5	6	5	10	9	4.0	9.6
28-May-07	4	3	1	0	2	3	4	3	2	3	3	4	5	4	5	6	7	8	9	5	6	9	8	9	4.7	9.3
29-May-07	8	8	7	9	9	11	15	20	21	11	11	8	7	14	7	9	9	8	7	7	12	9	8	19	10.6	21.0
30-May-07	25	21	15	12	9	13	12	14	15	13	13	16	13	15	16	12	8	9	21	14	12	32	27	13	15.4	32.4
31-May-07	19	17	12	22	12	30	36	24	15	10	10	10	9	8	11	11	13	12	14	12	21	20	21	28	16.6	35.8
Hourly Avg	7.6	6.7	6.4	6.6	5.7	7.3	7.8	7.9	6.3	5.5	5.2	5.6	5.5	5.9	5.8	5.6	5.7	6.2	6.6	7.5	8.8	9.1	8.5	8.3		
Hourly Max	28.4	27.1	37.7	35.1	25.8	29.8	35.8	23.9	21.0	13.5	13.0	16.0	13.6	16.5	16.2	12.3	13.4	13.1	21.5	17.8	24.9	32.4	27.1	28.4		

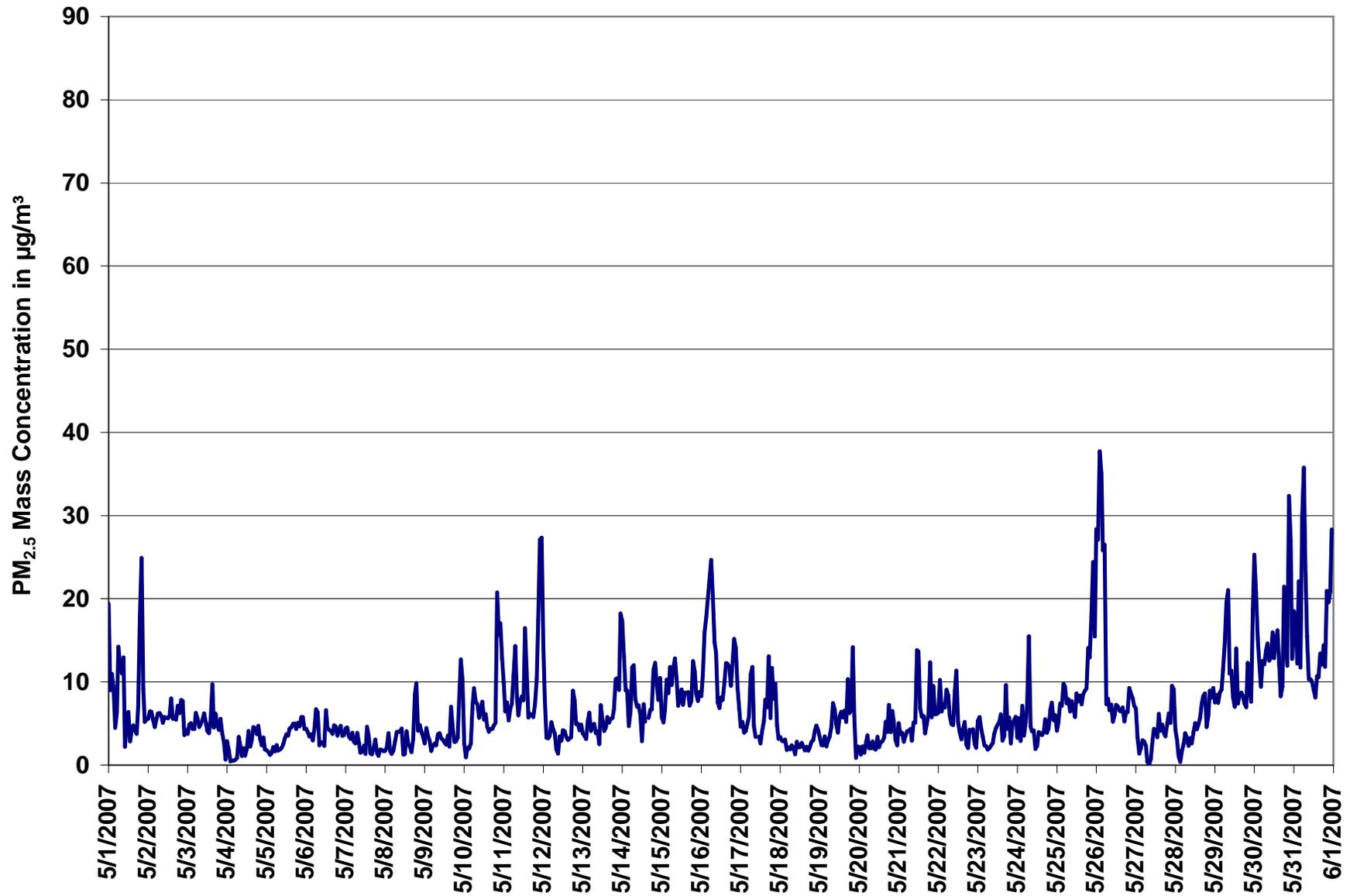
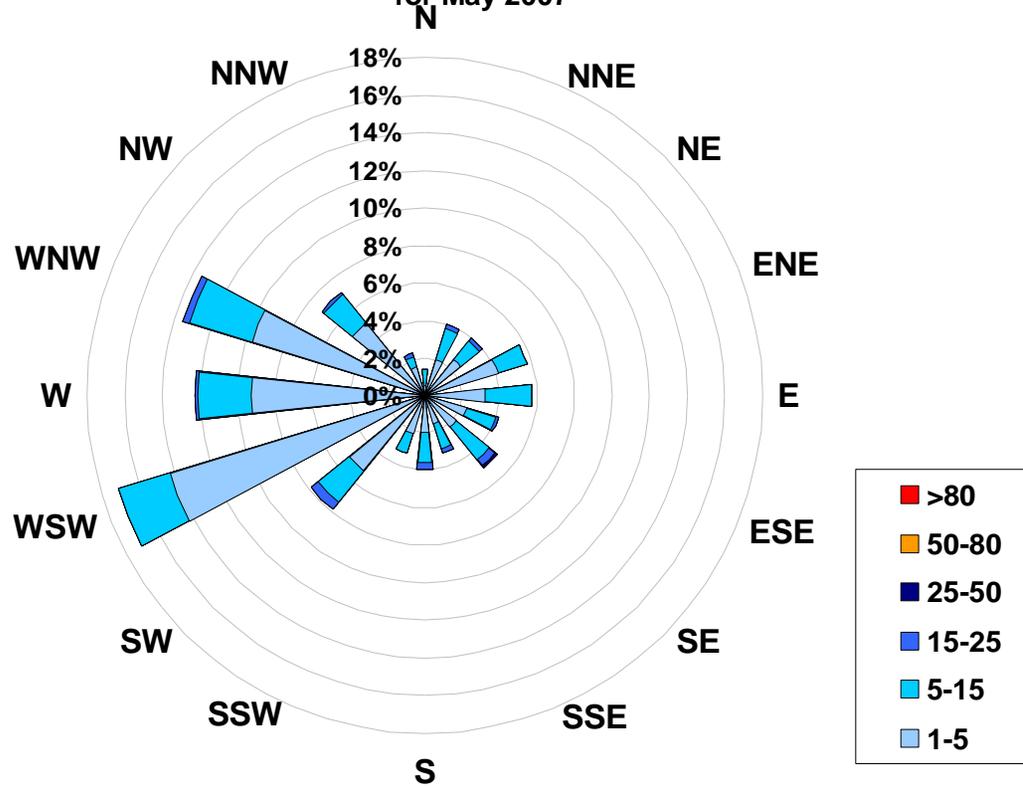


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

**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 May 2007**



**Calms: 0%**

Frequency Distribution of PM <sub>2.5</sub> in µg/m <sup>3</sup>			Frequency (hrs)
Range			
1.0	<	5	557
5	to	15	168
15	to	25	16
25	to	50	1
50	to	80	0
	>	80	0
Total Non-Zero Values			742

### PASZA - Henry Pirker - Relative Humidity Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

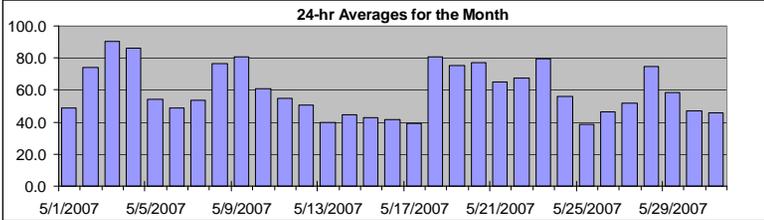
#### HOURLY AVERAGE TABLE

**Relative Humidity (RH)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Average:	94.6 %	29-May	5:00 6:00
Maximum 24-hr Value:	90.2 %	3-May	



AIC Time:	0 hrs	Operational Time:	742 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	93.6	91.5	80.1	60.8	39.6	24.2	19.2	59.7 %	60.8 %

**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-May-07	61	63	72	76	77	74	72	70	60	49	35	30	29	28	30	31	31	30	32	37	42	44	48	51	48.7	77.0
2-May-07	59	66	68	69	70	72	72	71	68	61	55	54	54	54	73	83	86	88	89	92	93	92	92	93	73.9	93.2
3-May-07	93	93	93	93	93	94	93	92	88	91	91	88	83	82	80	85	87	87	91	93	94	94	94	93	90.2	94.0
4-May-07	93	92	92	91	91	91	89	86	83	82	81	79	76	76	77	82	87	89	91	93	90	88	87	87	85.9	93.5
5-May-07	89	89	87	86	87	88	83	64	57	52	44	38	36	34	31	28	28	30	32	38	40	42	49	52	54.4	89.4
6-May-07	56	59	61	57	61	60	53	50	49	47	43	43	40	39	40	39	42	47	49	51	53	44	42	47	48.8	61.5
7-May-07	50	48	53	47	58	62	57	53	50	53	52	51	48	49	55	49	48	50	52	54	57	61	65	68	53.7	67.8
8-May-07	68	68	70	73	77	76	71	70	71	68	64	64	64	69	78	82	83	85	88	89	90	90	91	90	76.7	90.6
9-May-07	89	87	83	87	88	88	90	89	87	84	80	78	68	65	64	69	85	83	68	68	79	84	89	91	81.0	91.4
10-May-07	92	89	89	91	92	93	90	82	76	65	51	45	39	36	38	38	34	35	36	38	44	52	53	60	60.8	93.2
11-May-07	68	71	77	79	79	82	79	70	62	51	49	46	43	49	39	35	32	30	31	35	36	46	54	65	54.5	82.4
12-May-07	69	68	80	78	81	86	85	79	54	49	41	34	33	31	30	30	29	28	27	30	35	43	47	53	50.7	85.7
13-May-07	54	54	57	59	65	61	53	48	43	40	31	26	24	22	21	22	23	23	24	30	34	38	44	57	39.6	64.7
14-May-07	68	68	69	77	68	60	62	58	49	41	33	27	24	23	23	M	23	23	24	27	35	43	45	50	44.5	77.2
15-May-07	49	54	62	71	77	74	62	58	51	43	33	28	27	25	24	23	23	24	26	32	37	39	40	41	42.6	76.5
16-May-07	45	46	54	65	71	74	68	54	44	30	25	24	26	25	24	25	26	28	27	33	42	47	52	53	41.8	73.7
17-May-07	53	53	55	57	48	48	43	38	37	34	P	31	27	23	21	20	22	25	31	35	39	49	55	57	39.2	57.1
18-May-07	63	65	69	71	72	74	80	84	87	88	87	87	85	84	83	84	84	86	85	84	84	83	82	83	80.7	87.7
19-May-07	84	85	86	87	87	89	90	89	82	78	75	71	64	60	55	58	52	54	59	61	80	89	85	84	75.2	90.4
20-May-07	89	89	89	90	91	91	88	85	82	79	75	76	74	69	64	59	60	61	61	61	71	79	83	81	77.0	90.8
21-May-07	84	83	86	90	90	89	87	84	74	63	57	57	55	43	42	39	35	35	40	54	58	67	71	72	64.8	89.8
22-May-07	81	81	86	90	92	91	80	71	62	52	52	69	64	63	62	58	60	56	49	49	55	63	65	71	67.5	91.5
23-May-07	76	81	77	77	91	90	87	82	74	76	89	86	80	74	77	62	61	76	81	72	75	82	89	91	79.5	91.5
24-May-07	92	93	93	94	94	94	92	81	71	55	48	41	36	33	32	30	27	24	24	25	30	37	43	50	55.8	93.9
25-May-07	56	62	74	79	85	78	52	44	38	32	29	22	20	19	19	17	17	16	17	19	25	31	38	38	38.7	85.2
26-May-07	57	63	72	70	76	72	53	49	39	35	31	28	25	26	27	30	32	34	36	38	48	53	61	63	46.6	76.4
27-May-07	68	66	65	66	72	80	75	65	54	45	41	40	39	38	36	33	35	34	35	37	42	44	55	73	51.5	79.6
28-May-07	72	73	71	72	77	78	76	78	79	76	76	72	71	68	68	69	72	73	72	69	74	81	88	91	74.9	90.9
29-May-07	92	93	93	94	94	95	91	80	67	51	45	39	35	33	31	29	28	29	34	37	44	50	54	70	58.7	94.6
30-May-07	77	79	84	86	88	89	67	53	44	40	33	27	24	20	17	19	19	20	22	29	36	45	53	51	46.8	89.3
31-May-07	54	68	71	79	74	70	59	54	48	39	38	36	33	30	29	27	28	27	29	30	35	41	43	52	45.6	78.8
Hourly Avg	71.0	72.5	75.5	77.4	79.6	79.5	74.2	68.6	62.2	56.5	52.8	49.5	46.7	44.9	44.8	44.9	44.9	46.0	47.1	49.6	54.9	59.4	63.1	67.1		
Hourly Max	93.5	93.1	93.4	93.9	94.3	94.6	93.5	91.5	88.3	91.3	91.2	88.0	85.4	83.7	83.5	84.6	86.8	88.0	90.8	92.9	94.0	93.7	93.6	93.1		

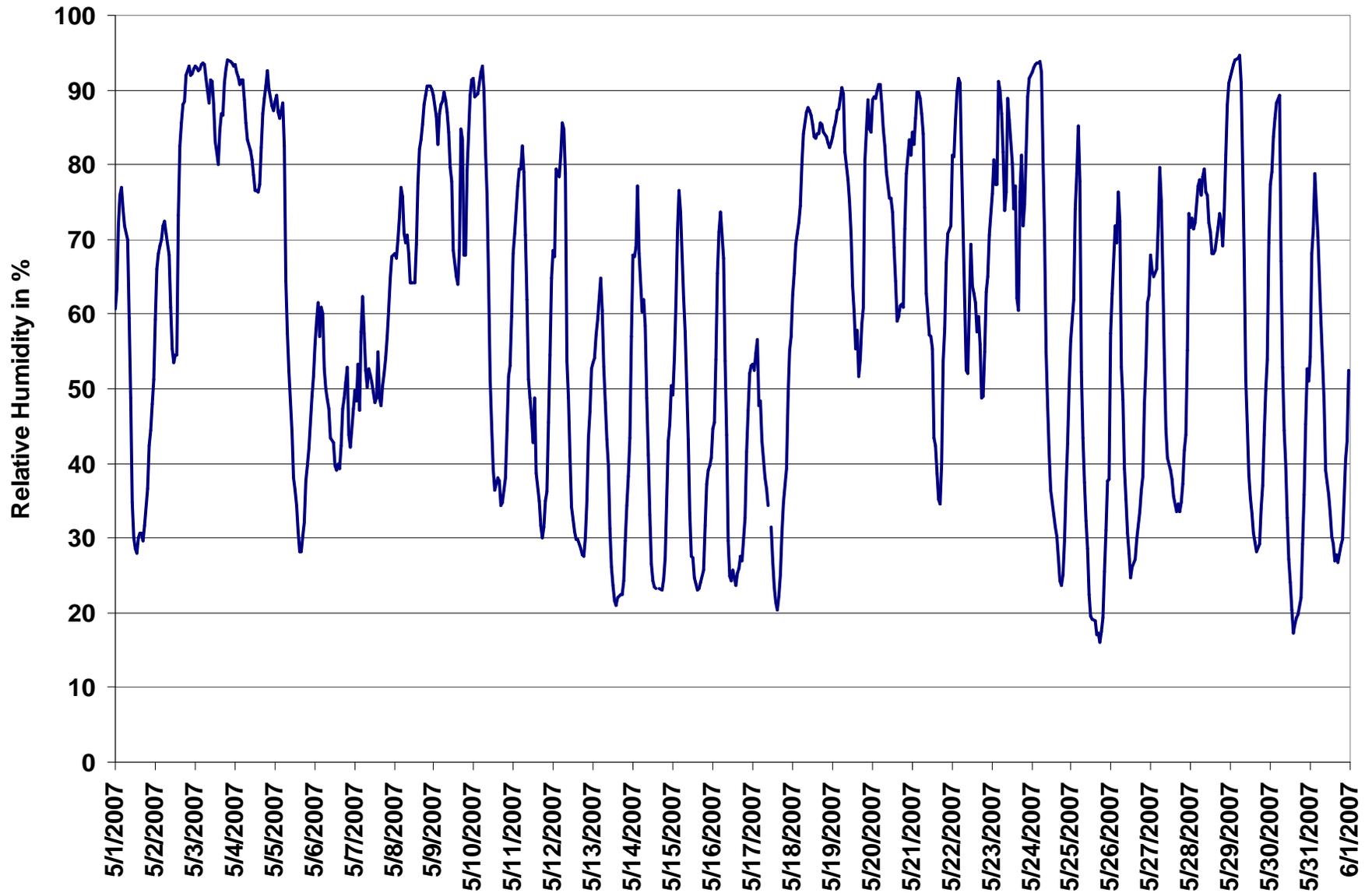


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

# PASZA - Henry Pirker - Temperature Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

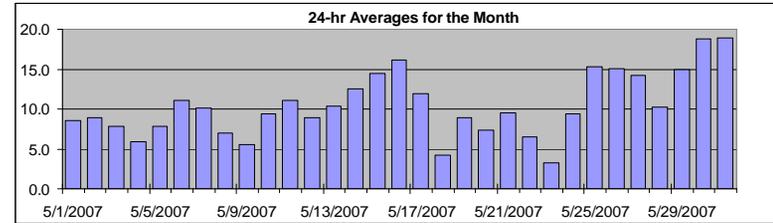
## HOURLY AVERAGE TABLE

## Ambient Temperature (T)

Monitoring Dates: May 1, 2007 to June 1, 2007

### Summary

Maximum 1-hr Average:	27.9 °C	30-May	14:00 15:00
Maximum 24-hr Value:	18.9 °C	31-May	



AIC Time:	0 hrs	Operational Time:	742 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	26.0	21.5	13.8	9.3	6.0	2.9	0.6	10.4 °C	9.3 °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	0:00
1-May-07	4	3	2	2	1	1	2	3	6	9	12	12	13	14	14	14	14	14	14	13	12	11	11	10	9	8.5	13.9
2-May-07	8	8	8	8	7	7	7	7	8	10	12	13	13	12	10	9	9	9	9	9	8	8	8	8	7	8.9	12.8
3-May-07	7	7	8	8	7	7	7	8	8	8	8	8	10	9	9	9	9	8	8	7	7	7	7	6	7.8	9.6	
4-May-07	6	5	5	5	4	4	4	5	5	6	6	6	7	7	7	7	7	7	7	6	6	5	5	5	5	5.8	7.3
5-May-07	5	5	5	5	4	4	4	5	6	7	8	9	10	11	11	12	12	12	11	10	9	8	7	6	7.8	11.8	
6-May-07	5	5	4	6	5	5	8	10	12	13	15	15	15	15	15	16	15	14	14	13	12	12	11	10	11.1	15.7	
7-May-07	8	8	7	8	7	6	7	9	10	10	11	12	12	13	13	13	13	13	12	12	11	10	9	9	10.1	13.3	
8-May-07	8	8	8	7	6	7	7	8	8	9	9	9	9	8	7	6	6	6	5	5	5	5	5	5	7.0	9.4	
9-May-07	5	5	5	4	3	3	3	3	4	5	6	7	9	9	10	8	5	6	9	8	6	5	4	3	5.5	9.8	
10-May-07	4	4	3	3	2	2	4	6	7	10	12	13	15	15	15	15	16	15	14	13	12	10	10	9	9.5	15.8	
11-May-07	8	7	6	4	4	4	6	9	10	12	14	16	17	15	18	17	17	16	15	14	12	10	9	8	11.1	17.6	
12-May-07	8	7	5	5	5	5	5	6	8	9	10	11	11	12	13	13	13	13	13	12	10	8	7	6	9.0	13.0	
13-May-07	6	5	4	3	2	3	5	7	9	12	13	14	15	16	16	16	16	15	15	14	12	11	10	8	10.3	16.3	
14-May-07	7	7	7	6	6	7	6	8	11	14	16	17	18	18	19	M	18	18	18	16	15	13	12	11	12.5	18.5	
15-May-07	11	9	7	6	5	5	7	9	13	15	17	18	19	20	21	21	21	21	20	19	17	16	15	14	14.4	21.4	
16-May-07	13	13	11	9	9	8	10	13	17	19	20	20	20	22	22	21	21	21	20	19	16	15	14	13	16.2	22.4	
17-May-07	12	12	11	10	9	8	9	10	11	12	P	14	14	15	16	16	15	15	13	13	12	10	8	7	11.9	15.8	
18-May-07	6	5	4	3	3	3	2	2	1	2	2	3	5	5	6	6	6	6	5	5	6	6	6	6	4.2	5.9	
19-May-07	5	5	5	5	5	5	5	6	8	9	10	11	12	13	14	13	14	14	14	13	12	9	7	6	5	8.9	14.4
20-May-07	4	4	4	4	4	4	5	6	6	7	8	8	9	10	10	10	12	12	11	11	10	8	7	5	5	7.3	11.6
21-May-07	5	6	5	4	4	4	5	7	9	11	12	11	11	14	14	15	15	16	16	14	12	11	9	8	8	9.5	15.6
22-May-07	6	6	4	3	3	3	6	8	11	13	14	9	8	6	6	6	6	6	7	7	7	6	4	3	1	6.5	13.7
23-May-07	0	0	1	1	1	1	1	2	4	3	2	3	4	5	6	8	8	5	4	7	6	4	3	2	3.3	7.9	
24-May-07	1	0	-1	-1	-1	-1	1	4	7	9	10	12	13	15	16	17	18	19	18	18	16	14	12	11	9.4	18.7	
25-May-07	9	8	6	4	3	4	8	11	13	16	19	21	22	22	23	23	23	23	23	23	21	19	17	14	13	15.3	23.5
26-May-07	10	8	7	7	6	7	10	13	16	19	20	22	21	21	21	19	19	19	19	19	16	15	12	12	15.0	21.7	
27-May-07	11	11	11	11	11	10	11	13	14	15	16	17	17	18	18	19	18	18	17	16	15	14	12	10	14.3	18.9	
28-May-07	11	10	9	9	8	8	9	9	9	10	10	11	11	12	12	13	12	12	12	12	13	11	9	8	7	10.3	12.9
29-May-07	7	6	5	4	4	4	7	9	13	16	18	20	21	22	23	23	23	23	23	22	21	19	17	16	13	14.9	23.5
30-May-07	11	10	8	8	8	8	12	15	18	20	23	25	26	27	28	28	27	27	26	23	21	19	17	16	18.8	27.9	
31-May-07	15	13	11	10	9	9	13	16	18	20	21	23	24	25	25	26	26	26	25	24	23	19	17	15	18.9	26.3	
Hourly Avg	7.3	6.8	6.0	5.5	5.0	5.0	6.3	8.0	9.7	11.3	12.5	13.2	14.0	14.4	14.8	14.7	14.7	14.5	14.0	13.2	11.8	10.5	9.4	8.5			
Hourly Max	15.5	12.8	11.5	11.3	10.6	9.8	13.1	15.5	17.7	20.3	23.2	25.5	26.0	27.0	27.9	27.6	27.4	27.3	26.2	24.5	22.8	19.3	17.3	16.2			

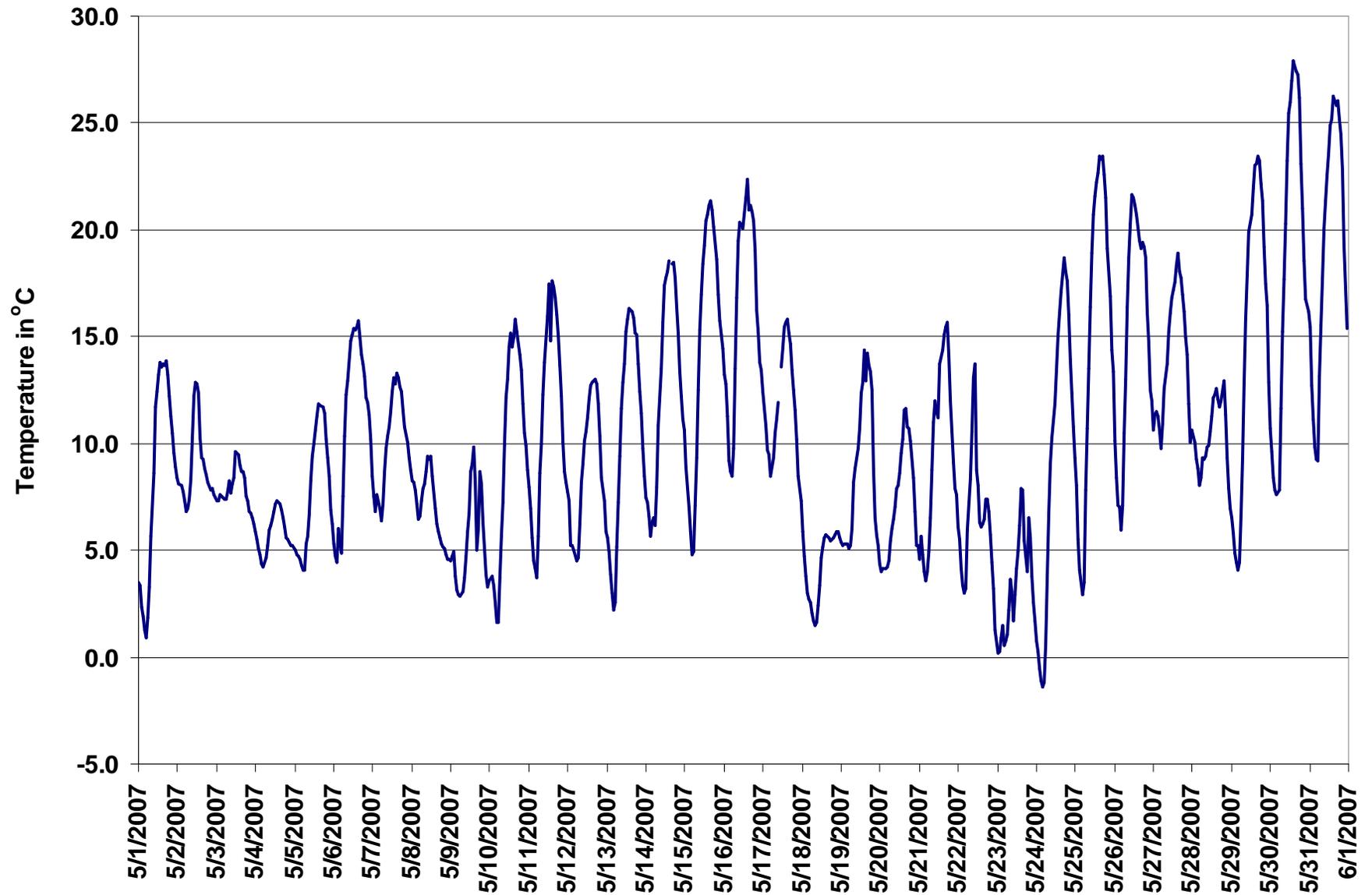


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

# PASZA - Henry Pirker - Solar Radiation Monthly Summary

Station: Henry Pirker  
Station Owner: PASZA

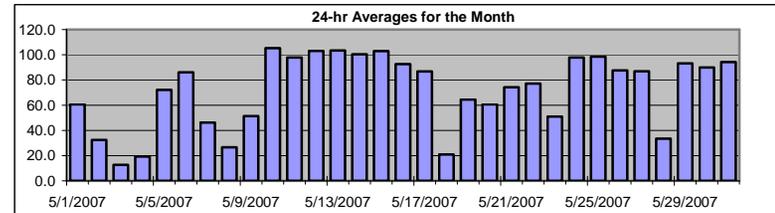
## HOURLY AVERAGE TABLE

## Solar Radiation (SR)

Monitoring Dates: May 1, 2007 to June 1, 2007

### Summary

Maximum 1-hr Average:	362.4	W/m <sup>2</sup>	14-May	11:00 12:00
Maximum 24-hr Value:	105.3	W/m <sup>2</sup>	10-May	



AIC Time:	0 hrs	Operational Time:	742 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	318.8	255.1	125.7	30.7	0.0	0.0	0.0	71.9 W/m <sup>2</sup>	30.7 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-May-07	0	0	0	0	0	5	44	73	78	98	211	197	186	167	119	92	75	74	28	8	0	0	0	0	60.7	210.8	
2-May-07	0	0	0	0	0	3	15	26	51	118	215	94	61	52	41	45	27	18	8	3	0	0	0	0	32.4	215.3	
3-May-07	0	0	0	0	0	0	11	24	17	15	33	31	71	31	8	12	30	13	5	3	0	0	0	0	12.7	71.0	
4-May-07	0	0	0	0	0	0	5	17	51	39	52	65	59	45	39	37	26	17	8	3	0	0	0	0	19.3	64.5	
5-May-07	0	0	0	0	0	0	6	22	47	96	254	311	259	160	120	122	117	110	78	24	4	0	0	0	72.1	311.1	
6-May-07	0	0	0	0	0	23	174	222	172	156	180	232	232	187	126	120	72	58	64	41	5	0	0	0	86.1	232.3	
7-May-07	0	0	0	0	0	8	30	135	180	119	109	102	106	88	76	50	46	33	19	8	1	0	0	0	46.2	179.5	
8-May-07	0	0	0	0	0	2	10	22	39	79	94	130	105	40	34	31	27	16	7	3	0	0	0	0	26.5	130.0	
9-May-07	0	0	0	0	0	2	7	31	47	69	95	213	256	132	128	45	12	64	84	44	6	0	0	0	51.4	256.4	
10-May-07	0	0	0	0	0	13	119	195	302	224	202	350	318	205	150	140	128	96	50	29	5	0	0	0	105.3	350.5	
11-May-07	0	0	0	0	0	11	90	179	235	207	223	353	292	91	149	150	133	110	81	38	7	0	0	0	97.8	353.0	
12-May-07	0	0	0	0	1	2	24	136	290	329	255	298	284	207	136	124	127	110	92	51	9	0	0	0	103.0	328.9	
13-May-07	0	0	0	1	1	16	109	197	298	245	161	348	307	229	171	126	110	65	69	27	4	0	0	0	103.4	347.6	
14-May-07	0	0	1	0	0	8	32	132	263	240	192	362	324	240	168	M	140	107	70	25	4	0	0	0	100.3	362.4	
15-May-07	0	0	0	0	0	15	76	165	260	225	191	343	307	236	160	144	131	108	76	28	5	0	0	0	102.9	343.2	
16-May-07	0	0	0	0	0	11	39	142	265	267	189	243	204	246	149	79	124	116	91	52	4	0	0	0	92.6	266.6	
17-May-07	0	0	0	0	0	18	64	165	237	167	P	256	255	269	211	161	102	54	24	12	2	0	0	0	86.8	268.8	
18-May-07	0	0	0	0	0	3	8	15	31	35	47	57	71	52	55	44	29	21	18	12	3	0	0	0	20.9	71.2	
19-May-07	0	0	0	0	0	2	5	37	96	107	142	297	216	121	160	107	113	78	54	12	0	0	0	0	64.4	296.9	
20-May-07	0	0	0	0	0	13	28	32	39	87	121	94	148	172	146	166	146	117	85	53	8	0	0	0	60.6	172.4	
21-May-07	0	0	0	0	1	5	21	48	111	165	212	129	235	237	162	139	134	121	41	13	6	0	0	0	74.2	237.1	
22-May-07	0	0	0	0	2	18	58	130	235	185	177	166	248	158	126	97	84	78	54	25	11	0	0	0	77.1	248.5	
23-May-07	0	0	0	0	2	29	36	63	136	47	41	67	171	80	146	164	103	34	27	61	15	0	0	0	51.0	170.6	
24-May-07	0	0	0	0	2	20	61	128	233	213	176	318	289	217	149	137	129	112	91	57	15	0	0	0	97.8	317.8	
25-May-07	0	0	0	0	2	19	57	111	218	211	171	319	298	241	167	146	135	116	91	46	14	1	0	0	98.5	319.2	
26-May-07	0	0	0	0	3	22	58	107	208	207	189	297	245	175	132	73	95	126	94	58	14	0	0	0	87.6	296.7	
27-May-07	0	0	0	0	0	7	57	105	207	239	172	250	223	181	190	159	121	84	57	27	7	0	0	0	86.9	250.1	
28-May-07	0	0	0	0	2	14	32	36	46	49	39	40	68	75	57	86	82	50	56	56	13	1	0	0	33.4	86.2	
29-May-07	0	0	0	0	4	21	62	93	172	199	163	305	289	240	165	140	134	109	83	49	9	1	0	0	93.2	305.0	
30-May-07	0	0	0	0	4	21	58	88	153	190	167	305	247	245	187	139	136	117	60	30	10	1	0	0	89.9	305.0	
31-May-07	0	0	0	0	2	20	68	91	135	172	168	300	291	261	194	151	136	115	82	53	22	2	0	0	94.3	299.5	
Hourly Avg	0.0	0.0	0.0	0.0	0.9	11.3	47.3	95.6	156.6	154.8	154.7	221.6	215.0	163.9	129.6	107.5	96.8	78.9	56.3	30.6	6.5	0.2	0.0	0.0			
Hourly Max	0.4	0.4	0.7	0.7	3.6	28.6	174.1	221.6	301.9	328.9	255.1	362.4	323.6	268.8	210.8	166.4	146.3	125.7	93.8	61.4	21.9	2.0	0.4	0.4			

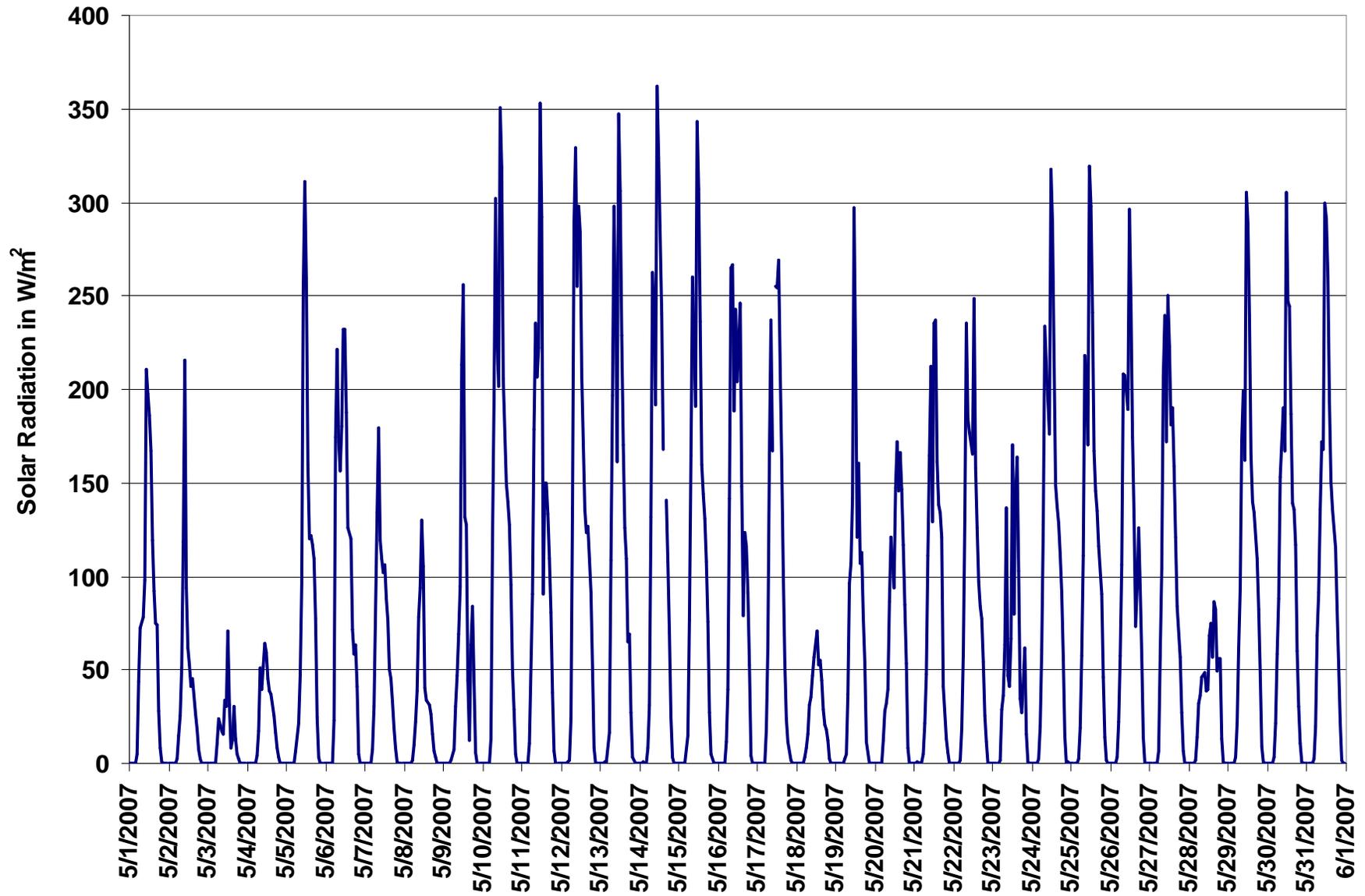


Figure 19. PASZA - Henry Pirker Solar Radiation 1-hr Average Monthly Trend

### PASZA - Henry Pirkler - Scalar Wind Speed Monthly Summary

Station: Henry Pirkler  
 Station Owner: PASZA

#### HOURLY AVERAGE TABLE

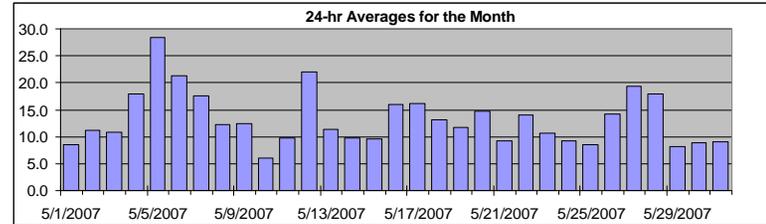
#### Wind Speed (WSs)

Monitoring Dates: May 1, 2007 to June 1, 2007

#### Summary

Maximum 1-hr Average:	43.1	km/hr	5-May	11:00 12:00
Maximum 24-hr Value:	28.4	km/hr	5-May	

Calm Time:	0 hrs	0% calms	Operational Time:	737 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.1%				
Percentile	99	95	75	50	25	5	1	AverageS
	35.3	25.9	16.6	11.5	8.2	5.2	4.4	13.3 km/hr



#### Status Flag Characters

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

Day	Mountain Standard Time																							24-hr 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	23:00 0:00			
1-May-07	6	5	5	6	7	7	6	8	7	7	9	10	10	11	12	9	10	10	9	10	9	11	11	11		8.5	12.2	
2-May-07	9	9	10	12	12	13	12	14	15	14	16	14	15	18	17	13	9	6	5	7	6	7	7	8		11.2	17.5	
3-May-07	8	8	7	6	8	7	8	8	6	11	8	10	11	14	8	12	18	17	14	11	17	16	14	12		10.8	17.9	
4-May-07	13	14	13	13	10	11	19	22	24	22	20	22	22	22	24	22	17	14	15	14	16	21	20	21		18.0	24.3	
5-May-07	22	24	27	28	28	28	30	26	31	36	42	43	42	37	35	32	35	33	25	19	15	21	12	10		28.4	43.1	
6-May-07	9	4	8	8	9	6	8	8	19	21	24	29	39	43	35	35	30	30	30	27	21	26	24	19		21.3	42.8	
7-May-07	13	14	16	17	15	14	14	13	21	22	22	17	15	19	15	22	24	22	20	23	20	19	16	11		17.6	24.3	
8-May-07	9	10	8	10	9	7	13	13	13	13	14	20	18	15	14	12	12	11	10	8	13	12	14	13		12.2	19.7	
9-May-07	13	16	19	21	20	19	18	18	16	13	13	13	11	8	10	9	16	9	8	6	9	5	4	4		12.4	21.2	
10-May-07	6	8	5	N	N	N	3	4	5	4	4	6	7	8	10	10	8	7	8	5	4	5	5	4		6.0	10.1	
11-May-07	7	5	6	7	4	5	5	7	8	10	12	10	8	15	8	18	23	23	19	14	7	5	5	6		9.8	23.3	
12-May-07	9	27	23	22	19	12	13	14	26	30	32	34	33	30	30	29	28	23	23	22	17	11	13	11		22.1	33.6	
13-May-07	12	13	10	7	7	8	10	10	11	10	16	17	14	15	14	15	16	14	16	10	8	8	5	5		11.4	17.3	
14-May-07	5	5	6	6	7	10	9	11	12	11	9	10	12	12	11	M	11	9	9	10	14	12	12	10		9.7	13.9	
15-May-07	13	9	6	6	6	7	12	11	9	8	9	9	9	8	9	9	10	12	13	11	11	12	12	11		9.7	13.1	
16-May-07	11	11	6	6	5	5	10	12	17	23	23	24	19	15	9	18	23	24	26	20	15	23	22	18		16.0	25.5	
17-May-07	22	19	19	15	20	21	18	22	23	18	P	15	15	18	18	12	11	9	12	16	9	14	12	12		16.1	23.2	
18-May-07	13	11	11	13	10	12	12	10	12	12	10	13	13	14	14	15	16	15	14	15	14	14	15	14		13.1	16.2	
19-May-07	15	15	16	15	11	10	7	5	7	9	10	12	10	7	8	13	8	11	12	12	17	17	21	18	17		11.8	20.6
20-May-07	19	16	16	11	12	12	12	15	15	17	16	17	20	19	19	18	18	20	14	13	11	9	8	8		14.8	20.1	
21-May-07	7	10	8	8	7	5	6	7	6	7	7	10	16	12	12	11	11	10	8	15	12	14	7	7		9.3	16.1	
22-May-07	6	7	6	7	7	7	8	9	11	10	25	34	32	26	22	18	14	15	17	16	13	11	11	7		14.1	34.5	
23-May-07	5	7	8	13	15	14	14	15	17	19	17	15	11	14	9	10	8	9	10	7	7	5	5	5		10.7	18.5	
24-May-07	4	6	5	6	N	N	7	7	7	10	11	13	12	11	12	12	10	8	12	12	10	10	11	9		9.3	12.6	
25-May-07	8	8	6	5	7	8	9	11	10	9	8	9	9	11	12	9	9	7	9	9	9	9	7	7		8.5	11.9	
26-May-07	5	5	6	7	5	6	10	12	14	14	16	19	23	24	25	21	20	24	19	18	12	14	11	11		14.1	25.2	
27-May-07	12	12	16	19	18	12	13	18	24	24	25	23	22	21	23	24	24	24	25	25	18	18	16	10		19.4	25.4	
28-May-07	14	18	19	20	17	17	21	25	23	26	24	21	23	22	22	23	23	20	14	13	9	6	5	6		17.9	25.6	
29-May-07	5	6	5	5	5	5	8	7	6	8	8	9	9	9	8	9	9	10	13	14	10	11	10	6		8.1	13.6	
30-May-07	6	7	6	6	5	7	9	10	11	10	7	7	8	8	8	10	12	13	10	15	11	11	10	9		8.9	15.0	
31-May-07	8	7	6	5	7	7	7	9	9	11	10	9	10	9	12	9	10	10	10	9	11	11	11	9		9.0	11.6	
1-hr Average	10.1	10.8	10.6	10.9	10.8	10.4	11.3	12.3	14.0	14.7	15.5	16.5	16.7	16.6	15.5	15.9	15.8	15.1	14.4	13.7	12.1	12.6	11.3	10.1				
Hourly Max	22.3	27.2	26.9	28.0	27.8	28.2	29.9	25.9	31.5	36.3	41.9	43.1	41.8	42.8	34.9	35.0	35.4	33.3	30.3	26.6	21.0	25.6	24.4	21.4				

# PASZA - Henry Pirker - Vector Wind Speed Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

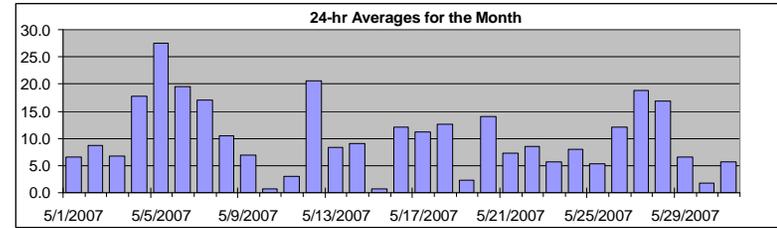
## HOURLY AVERAGE TABLE

## Wind Speed (WSv)

Monitoring Dates: May 1, 2007 to June 1, 2007

### Summary

Maximum 1-hr Average:	42.9	km/hr	5-May	11:00 12:00
Maximum 24-hr Value:	27.5	km/hr	5-May	



Calm Time:	2 hrs	0% calms	Operational Time:	735 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.1%				
Percentile	99	95	75	50	25	5	1	AverageV
	35.1	25.7	16.3	10.9	7.0	3.5	1.4	46.3 km/hr

### Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max			
Hour Start	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-May-07	5	3	2	5	7	7	4	7	4	7	2	8	9	10	9	5	7	8	8	9	9	11	10	11		6.6	11.0	
2-May-07	9	9	10	11	12	13	12	14	15	14	15	14	14	17	17	13	8	5	4	6	1	7	7	7		8.7	17.2	
3-May-07	8	8	7	6	7	7	8	8	5	8	8	9	10	13	8	12	18	17	13	11	17	16	14	12		6.8	17.8	
4-May-07	13	14	12	12	10	11	19	22	24	21	20	22	22	22	24	22	17	14	15	13	16	21	20	21		17.7	24.1	
5-May-07	22	24	27	28	28	28	29	26	31	36	42	43	42	37	34	31	35	33	25	19	15	21	11	9		27.5	42.9	
6-May-07	8	2	6	7	6	5	7	5	19	21	23	28	38	42	34	35	30	29	30	27	21	26	24	19		19.5	42.5	
7-May-07	11	14	16	16	15	14	14	12	21	21	22	16	14	18	14	22	24	21	20	23	20	19	16	11		17.0	24.1	
8-May-07	9	10	8	10	9	7	11	13	13	13	13	19	18	15	14	12	11	11	9	8	12	12	14	13		10.5	19.4	
9-May-07	13	15	19	21	20	19	18	18	16	13	13	12	10	6	9	8	12	7	7	6	9	5	4	3		6.9	21.1	
10-May-07	6	8	5	N	N	N	1	4	5	2	1	2	4	7	9	8	6	5	8	4	2	4	5	1		0.7	9.1	
11-May-07	7	4	5	7	1	4	4	5	7	9	11	9	calm	11	1	16	23	23	19	13	6	4	2	4		3.0	23.1	
12-May-07	8	27	22	22	19	10	12	13	26	29	32	33	33	30	29	28	28	22	23	22	17	11	12	11		20.6	33.1	
13-May-07	12	13	9	6	6	8	9	10	10	9	15	17	13	13	12	13	16	14	14	10	8	8	4	3		8.3	16.6	
14-May-07	3	3	5	4	7	9	9	11	11	10	8	7	8	8	9	M	6	7	7	10	14	12	12	10		9.1	13.9	
15-May-07	13	8	4	5	5	7	12	11	8	7	8	5	8	4	5	4	8	11	12	11	11	12	12	11		0.7	12.9	
16-May-07	11	11	2	3	4	4	9	12	17	23	22	23	18	14	7	14	22	24	25	20	15	23	21	18		12.1	25.3	
17-May-07	22	19	19	15	20	21	17	22	23	17	P	14	14	16	18	12	10	6	11	15	7	14	12	12		11.1	22.9	
18-May-07	12	11	11	12	10	12	12	10	12	12	10	13	13	14	14	15	16	15	14	14	13	14	15	14		12.6	16.0	
19-May-07	15	15	15	14	11	9	7	4	2	7	9	11	8	2	5	7	5	10	12	11	11	19	18	16		2.4	19.4	
20-May-07	19	16	15	10	12	11	12	15	14	17	15	16	19	19	18	18	18	20	14	13	11	9	8	8		14.1	19.9	
21-May-07	5	10	7	7	5	4	6	7	4	5	4	4	15	10	11	7	9	8	7	14	12	13	5	6		7.3	14.9	
22-May-07	4	1	4	5	7	6	7	9	10	8	24	34	31	26	21	18	14	15	17	16	13	11	10	6		8.5	34.2	
23-May-07	5	2	7	12	15	14	14	15	16	18	16	12	10	13	8	8	4	3	5	7	7	2	1	2		5.8	17.5	
24-May-07	4	4	3	6	N	N	7	7	5	9	10	11	10	9	10	10	8	6	11	12	10	10	10	8		8.1	11.6	
25-May-07	8	8	6	1	6	7	9	11	9	8	7	7	6	6	10	4	4	5	9	8	9	8	7	7		5.3	11.2	
26-May-07	2	3	6	7	4	4	9	11	14	14	15	19	22	23	25	20	19	24	18	17	12	14	11	11		12.1	24.5	
27-May-07	12	12	16	18	18	12	13	17	23	24	24	23	21	20	23	23	23	23	24	25	24	17	18	15	10		18.8	25.2
28-May-07	14	18	19	20	17	17	21	25	23	25	24	21	23	22	22	23	22	19	13	13	9	5	4	5		16.9	25.5	
29-May-07	5	3	4	5	4	3	7	7	5	6	6	5	6	5	3	7	4	9	12	13	10	11	9	4		6.6	13.4	
30-May-07	5	6	5	5	3	7	9	9	10	9	6	3	6	4	4	8	11	12	4	15	11	11	9	9		1.8	14.8	
31-May-07	7	6	1	calm	7	6	6	9	7	11	8	6	9	6	10	6	8	9	9	8	9	11	11	7		5.8	10.9	
1-hr Vector	3.8	4.8	5.4	5.6	5.7	5.6	6.3	7.7	9.6	10.2	9.5	9.2	9.7	9.6	7.5	8.3	9.3	8.2	6.3	6.1	5.1	5.1	4.1	4.1				
Hourly Max	22.3	26.9	26.9	27.9	27.7	28.1	29.3	25.6	31.4	36.2	41.8	42.9	41.5	42.5	34.4	34.7	35.3	33.2	30.1	26.5	20.9	25.5	24.2	21.3				

# PASZA - Henry Pirker - Wind Direction Monthly Summary

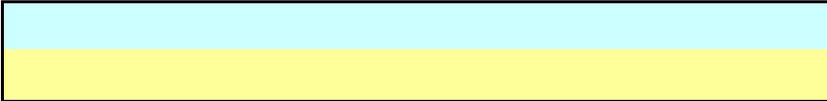
Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**



Calm Time:	0 hrs		0% calms		Operational Time:		742 hrs	
Calibration Time:	0 hrs		AMD Operational Uptime:				99.7%	
Percentile	99	95	75	50	25	5	1	Average
	350.5	316.8	280.1	245.3	139.6	41.8	19.7	266 deg

**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	WD Sector
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-May-07	360	32	343	283	307	317	298	291	310	338	59	70	35	16	62	43	27	47	42	16	19	23	25	27	16	NNE
2-May-07	37	42	58	68	63	66	62	70	77	69	72	67	81	101	141	98	127	194	288	289	24	77	22	18	73	ENE
3-May-07	26	36	52	66	58	74	55	62	44	285	336	315	259	270	310	279	284	291	311	304	289	289	302	300	313	NW
4-May-07	293	289	286	299	305	282	279	273	279	284	291	302	302	305	306	305	307	306	299	295	295	288	289	287	293	WNW
5-May-07	289	283	280	278	277	270	268	255	244	243	244	245	247	246	254	261	263	254	257	251	259	236	242	257	247	WSW
6-May-07	266	255	272	242	180	122	113	174	231	225	235	248	249	250	255	259	262	268	249	245	244	243	256	260	247	WSW
7-May-07	286	293	272	254	251	267	255	270	259	255	273	253	252	243	220	243	246	268	242	241	251	242	244	233	254	WSW
8-May-07	217	211	233	270	278	262	245	258	222	209	190	170	173	176	195	206	202	177	201	241	235	215	228	235	214	SSW
9-May-07	229	248	278	289	283	279	282	278	284	290	297	322	347	357	43	75	274	21	78	95	107	95	68	63	296	WNW
10-May-07	94	100	113	111	165	319	36	146	110	102	110	153	277	270	311	303	231	287	325	284	325	32	74	81	343	NNW
11-May-07	318	356	308	317	330	292	295	127	117	80	96	90	87	177	205	263	266	271	297	309	339	53	147	290	286	WNW
12-May-07	299	295	289	295	287	272	193	228	262	251	249	247	248	251	250	259	258	256	246	239	235	230	232	229	256	WSW
13-May-07	249	241	272	276	233	242	239	240	232	246	244	253	267	289	303	293	283	307	311	25	30	28	98	314	275	W
14-May-07	233	266	313	249	251	238	224	239	239	232	235	252	262	240	251	M	273	293	279	231	244	250	241	221	248	WSW
15-May-07	236	250	265	263	244	229	234	245	235	234	221	249	251	228	90	85	40	56	53	52	64	73	72	77	208	SSW
16-May-07	78	97	111	10	153	174	229	262	243	240	242	247	255	277	188	254	268	268	262	266	288	291	280	253	257	WSW
17-May-07	258	253	260	258	260	270	251	255	266	274	P	279	271	296	300	301	301	328	33	335	51	56	26	35	285	WNW
18-May-07	31	41	45	32	35	55	51	36	51	52	51	58	66	66	70	75	70	63	62	63	68	74	91	88	60	ENE
19-May-07	84	82	83	81	83	89	101	149	293	261	294	320	299	301	274	258	89	38	54	60	213	279	313	304	2	N
20-May-07	286	276	268	245	237	256	273	276	267	264	276	265	283	295	299	297	302	294	282	291	294	311	302	313	282	WNW
21-May-07	254	249	256	266	315	324	295	280	247	241	245	15	339	336	332	282	267	303	349	272	271	304	358	317	296	WNW
22-May-07	162	360	340	162	144	171	159	185	189	217	293	301	312	331	331	339	285	287	310	321	311	344	8	51	308	NW
23-May-07	115	216	302	275	234	240	242	248	251	279	258	257	287	313	20	48	1	162	357	72	97	351	271	296	272	W
24-May-07	127	325	261	146	145	143	138	129	132	122	139	137	131	148	143	116	134	169	140	133	119	103	108	108	132	SE
25-May-07	105	101	123	93	184	194	225	236	234	227	191	204	209	252	297	258	221	172	138	128	150	173	153	153	192	SSW
26-May-07	112	44	130	130	141	225	215	234	238	240	245	251	254	260	252	242	237	255	264	254	263	252	261	258	246	WSW
27-May-07	264	260	263	240	233	219	220	221	236	236	252	255	258	259	258	258	252	257	245	240	246	247	259	292	248	WSW
28-May-07	305	303	300	291	278	263	268	280	277	283	285	295	297	299	297	295	299	299	302	286	278	254	216	140	288	WNW
29-May-07	140	111	107	105	118	168	129	112	143	169	142	168	143	110	174	127	95	82	80	85	87	101	101	311	117	ESE
30-May-07	328	292	299	264	263	156	198	222	226	200	184	136	145	159	29	55	99	89	357	298	304	287	293	318	258	WSW
31-May-07	310	274	142	170	290	282	225	183	213	277	208	169	193	199	160	199	175	192	159	186	254	280	288	307	219	SW
Hourly Avg	283	286	284	275	263	255	244	246	248	251	252	258	264	267	269	272	267	276	285	275	270	280	281	288		

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

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

--	--

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	742 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	99.7%			
Percentile	99	95	75	50	25	5	1
	58.2	48.4	22.8	11.3	7.2	4.4	3.6

**Status Flag Characters**

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

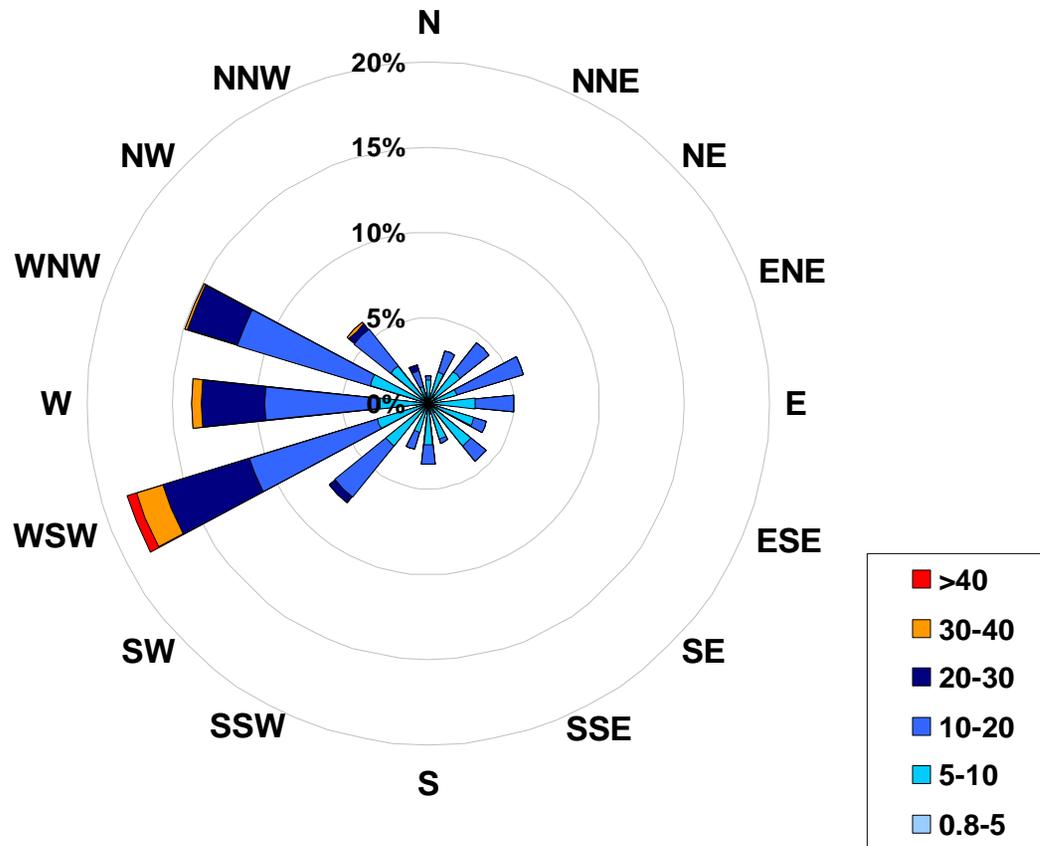
**Day Mountain Standard Time**

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-May-07	36	58	46	26	10	13	43	12	17	40	27	28	25	41	43	44	31	26	18	10	9	10	12	9
2-May-07	13	13	7	6	7	7	8	7	8	10	13	12	11	9	13	17	15	27	38	39	39	14	11	10
3-May-07	17	10	13	15	14	14	11	12	27	42	12	11	12	10	10	5	5	5	9	6	4	4	9	6
4-May-07	6	5	5	6	6	6	4	4	4	6	6	5	6	6	5	7	7	6	5	4	4	4	4	4
5-May-07	4	3	3	4	3	4	7	6	4	4	4	5	6	7	7	5	5	6	5	7	5	10	13	
6-May-07	20	41	21	25	12	18	17	46	10	9	9	8	8	7	8	7	6	4	6	5	4	4	4	5
7-May-07	9	4	3	9	6	6	7	8	7	8	8	12	14	9	11	9	6	8	7	5	5	4	4	6
8-May-07	7	5	8	7	4	12	21	7	8	14	12	10	11	11	11	10	10	9	11	11	9	8	9	7
9-May-07	10	11	6	4	4	5	4	5	6	10	15	16	22	52	33	16	27	32	18	16	8	15	5	22
10-May-07	8	11	8	7	35	33	27	18	24	42	70	36	51	33	25	41	38	34	12	15	22	17	13	18
11-May-07	20	22	13	11	48	15	30	38	16	19	15	29	59	35	60	34	10	8	7	6	14	20	32	30
12-May-07	10	4	5	5	5	11	9	13	8	8	7	9	8	10	11	11	8	12	10	6	5	7	7	7
13-May-07	7	5	31	35	43	11	17	17	17	20	14	14	29	27	31	20	15	10	19	13	12	10	16	35
14-May-07	47	30	21	30	15	8	11	7	10	21	26	44	48	32	46	M	51	38	28	12	5	7	6	6
15-May-07	5	18	24	14	15	13	7	9	17	24	29	52	37	57	54	61	31	19	11	8	6	5	5	6
16-May-07	4	4	25	34	49	38	14	13	9	8	11	8	13	37	41	22	13	8	6	5	4	6	4	7
17-May-07	4	5	4	5	5	4	9	7	7	10	P	25	17	19	14	22	20	26	16	13	40	13	12	13
18-May-07	13	15	13	12	19	12	11	15	10	14	14	12	10	9	9	9	8	8	8	7	8	7	7	8
19-May-07	7	6	6	7	8	10	24	44	34	34	23	16	40	59	51	25	46	18	12	10	16	9	6	5
20-May-07	5	6	9	11	10	7	7	10	10	8	9	12	7	9	11	13	11	9	12	7	5	19	8	6
21-May-07	22	8	18	19	16	25	10	13	49	29	49	35	17	31	26	53	32	52	29	15	6	9	34	38
22-May-07	48	43	48	23	10	24	17	16	13	30	12	6	8	8	9	12	14	11	10	8	8	7	9	16
23-May-07	15	34	11	11	7	8	8	10	11	12	9	14	16	14	22	28	47	34	36	23	10	25	54	34
24-May-07	24	33	50	11	6	6	7	16	39	25	30	31	30	46	33	26	44	53	17	12	7	4	5	20
25-May-07	7	15	12	50	23	6	8	10	16	21	36	40	47	62	34	44	68	58	20	23	5	12	8	10
26-May-07	29	39	10	5	12	24	12	9	9	11	13	14	11	11	11	21	17	9	8	8	5	6	5	6
27-May-07	4	7	6	6	8	7	9	9	7	9	10	12	12	11	11	11	8	11	7	5	12	6	9	5
28-May-07	5	7	5	6	5	6	5	5	5	5	6	6	7	8	7	7	7	8	11	8	6	19	26	13
29-May-07	11	47	41	19	12	51	13	23	39	44	48	49	41	56	46	49	54	36	12	7	6	5	5	50
30-May-07	15	9	23	20	38	33	10	10	16	19	36	79	38	47	53	33	21	16	38	5	6	4	7	15
31-May-07	19	26	41	44	10	16	30	17	21	17	33	52	33	54	28	48	50	25	22	21	12	2	6	36

Daily Maximum
57.6
39.4
42.1
7.3
13.4
46.2
14.3
21.3
51.7
70.0
59.7
12.8
43.3
51.4
60.9
48.5
39.8
19.1
58.6
19.1
52.6
48.2
54.2
53.2
68.5
39.0
12.1
26.3
55.6
78.5
54.5

Hourly Max	48	58	50	50	49	51	43	46	49	44	70	79	59	62	60	61	68	58	38	39	40	25	54	50
------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

1-hr Average Wind Rose (in km/hr) Located at the Henry Pirker Site for May 2007



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	27
5	to	10	262
10	to	20	329
20	to	30	97
30	to	40	18
	>	40	4
Total Non-Zero Values			737

# PASZA – Evergreen Park Station

## Monthly Summary Tables, Graphs, and Roses

# PASZA - Evergreen Park - Sulphur Dioxide Monthly Summary

Station: Evergreen Park  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

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

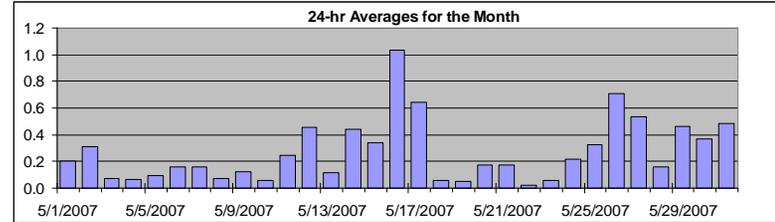
Monitoring Dates: May 1, 2007 to June 1, 2007

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:	7.3 ppb 16-May 8:00 9:00
Maximum 24-hr Average:	1.0 ppb 16-May

AIC Time:	31 hrs	Operational Time:	706 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.6	1.0	0.2	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	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-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
2-May-07	0	0	0	0	0	0	0	0	0	1	1	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9
3-May-07	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
4-May-07	0	0	0	0	0	A	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	
5-May-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
6-May-07	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	0.2	0.3	
7-May-07	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	
8-May-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	
9-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.4	
10-May-07	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	0.1	0.2	
11-May-07	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	A	0	0	0	0.2	1.9	
12-May-07	0	0	0	0	0	0	0	0	0	1	4	1	0	0	0	0	3	2	0	0	0	0	A	0	0	0	0	0.5	3.6	
13-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	A	0	0	0	0	0	0.1	0.7	
14-May-07	0	0	0	0	0	0	0	0	1	1	1	1	1	2	1	0	0	1	1	A	0	0	0	0	0	0	0	0.4	1.8	
15-May-07	0	0	0	0	0	0	0	0	1	1	2	0	1	0	0	1	0	A	0	0	0	0	0	0	0	0	0	0.3	1.6	
16-May-07	0	0	0	0	0	0	0	3	7	4	3	4	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	1.0	7.3	
17-May-07	0	0	0	0	0	0	6	3	2	0	0	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.6	5.8	
18-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	
19-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	
20-May-07	0	0	0	0	0	0	0	0	0	0	0	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8	
21-May-07	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.2	
22-May-07	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	
23-May-07	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
24-May-07	0	0	0	0	0	0	0	0	A	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.2	1.3	
25-May-07	0	0	0	0	0	0	0	A	2	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0.3	1.8	
26-May-07	0	0	0	0	0	0	A	0	2	3	0	1	6	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0.7	5.6	
27-May-07	0	0	0	0	P	P	0	0	0	1	5	0	4	0	0	0	0	0	0	0	0	0	P	0	0	0	0	0.5	4.8	
28-May-07	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8	
29-May-07	0	0	0	A	0	0	0	0	1	0	0	0	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.5	2.3	
30-May-07	0	0	A	0	0	0	1	1	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.6	
31-May-07	0	A	0	0	0	0	0	0	1	1	2	1	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0.5	2.2	
Hourly Avg	0.1	0.0	0.1	0.0	0.0	0.1	0.3	0.4	0.7	0.6	0.7	0.4	0.7	0.4	0.4	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1				
Hourly Max	0.3	0.1	0.2	0.2	0.2	0.2	5.8	3.0	7.3	3.9	4.8	4.1	5.6	1.8	2.7	2.0	1.2	1.2	0.9	0.5	0.3	0.2	0.2	0.2	0.5					

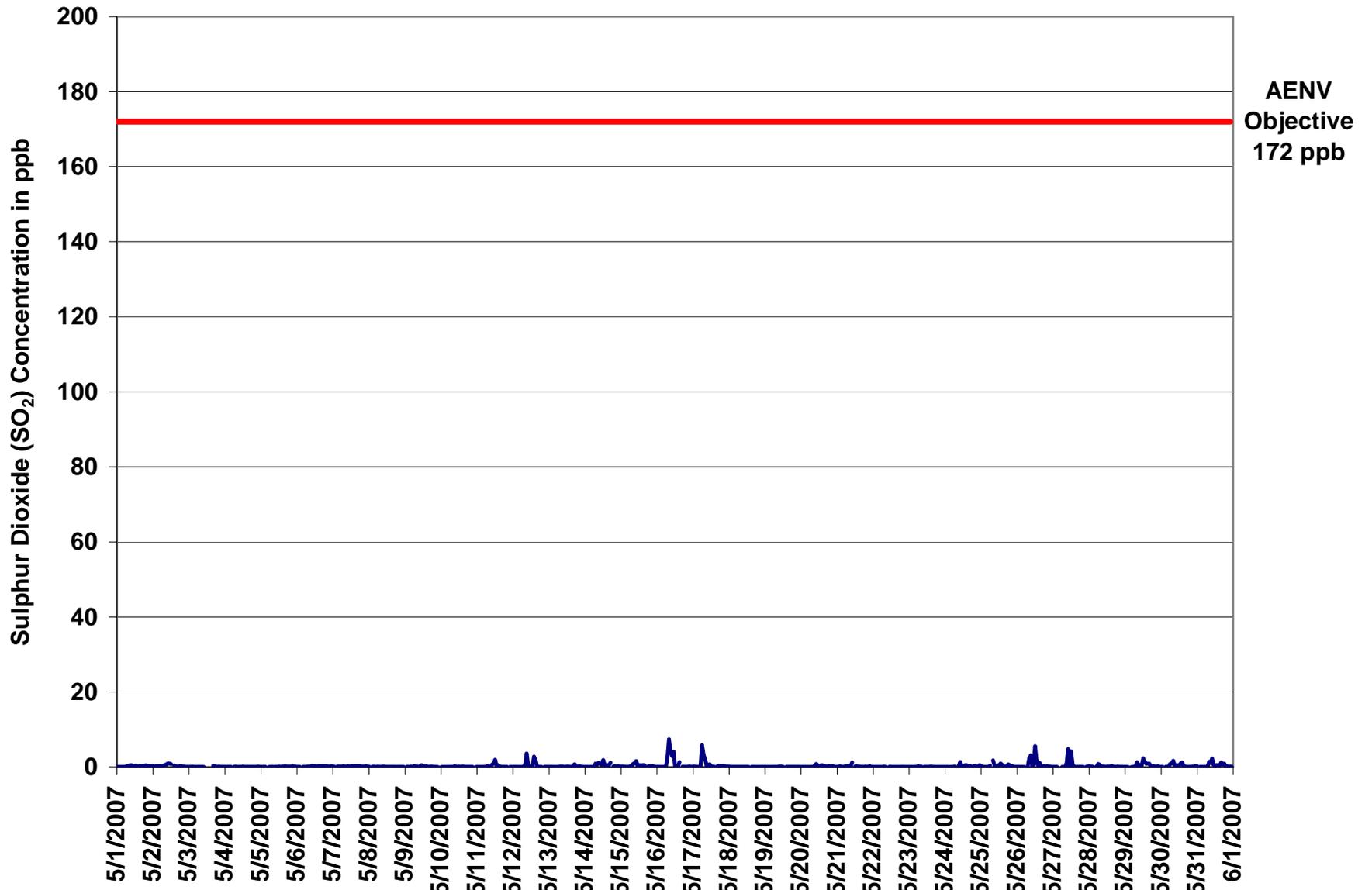


Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

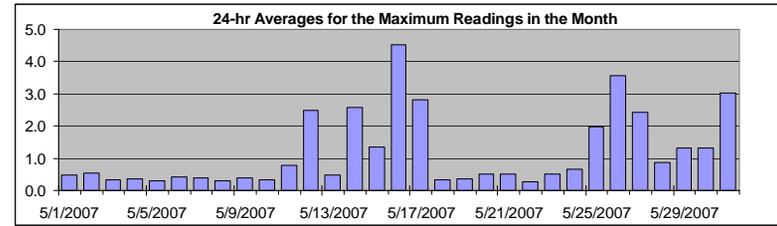
**Sulphur Dioxide (SO<sub>2</sub>)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	22.7	ppb	16-May	9:00 10:00
Maximum 24-hr Value:	4.5	ppb	16-May	

AIC Time:	31 hrs	Operational Time:	706 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	15.9	6.7	0.5	0.4	0.3	0.2	0.1	1.2 ppb	0.4 ppb



**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-07	0	0	0	0	0	0	0	1	1	1	1	0	0	1	A	1	0	0	0	1	1	0	0	0	0.5	1.0
2-May-07	0	0	0	1	0	0	0	1	1	1	1	1	1	A	1	1	0	0	1	1	0	0	0	0	0.6	1.3
3-May-07	0	0	0	0	0	0	0	1	0	0	0	C	C	C	C	A	1	1	0	0	0	0	0	0	0.3	0.6
4-May-07	0	0	0	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.2
5-May-07	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	0.4
6-May-07	0	0	0	A	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	1	1	0	0	0.4	0.8
7-May-07	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0.4	0.8
8-May-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0.3	0.5
9-May-07	A	0	0	0	0	0	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	A	0.4	0.8
10-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	A	0	0.3	1.0
11-May-07	0	0	0	0	0	0	0	2	0	0	2	3	4	1	1	1	0	1	0	0	0	0	A	0	0.8	3.9
12-May-07	0	0	0	0	0	0	0	7	11	7	0	0	0	17	10	0	0	0	0	0	A	0	0	0	2.5	17.2
13-May-07	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	1	1	A	0	0	0	0	0	0.5	1.5
14-May-07	0	0	0	0	0	0	3	3	1	8	4	3	11	3	1	4	4	10	A	0	0	0	0	0	2.6	11.0
15-May-07	0	0	0	0	0	0	0	1	4	5	9	1	4	0	2	1	1	A	0	0	0	0	0	0	1.3	8.9
16-May-07	0	0	0	0	0	0	0	7	23	23	16	21	0	1	0	7	A	0	0	0	0	0	0	0	4.5	22.7
17-May-07	0	0	0	0	0	0	18	14	11	0	0	11	1	0	0	A	0	3	1	0	1	0	0	0	2.8	17.6
18-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.3	0.4
19-May-07	0	0	0	0	0	0	0	0	0	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0.4	0.8
20-May-07	0	0	0	0	0	0	0	0	1	1	1	1	A	1	1	0	0	0	0	0	0	0	0	0	0.5	1.3
21-May-07	0	0	0	0	0	0	0	0	0	1	2	A	0	0	0	0	0	0	0	0	0	1	1	0	0.5	2.5
22-May-07	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	0	0	0	0.3	0.5
23-May-07	0	0	0	0	0	0	3	0	3	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	3.0
24-May-07	0	0	0	0	0	0	0	0	A	1	3	0	1	2	1	0	1	1	0	0	1	0	1	1	0.7	2.7
25-May-07	1	0	0	0	0	0	5	A	10	0	0	0	4	9	6	0	0	0	5	1	1	0	0	0	2.0	10.0
26-May-07	0	0	0	0	0	0	A	3	14	13	1	8	16	15	0	8	0	0	1	0	0	0	0	0	3.6	15.6
27-May-07	0	0	0	0	P	P	0	0	0	8	17	1	16	5	0	0	0	0	0	0	0	P	0	0	2.4	17.1
28-May-07	0	0	0	0	A	0	4	6	0	0	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0.9	6.1
29-May-07	0	0	0	A	0	0	0	0	4	1	1	2	4	8	3	1	2	0	0	0	0	0	1	0	1.3	7.7
30-May-07	0	0	A	0	0	0	3	5	8	1	1	2	1	1	2	1	0	0	0	0	1	0	1	1	1.3	8.3
31-May-07	0	A	0	0	0	0	0	1	10	6	11	7	3	6	0	3	7	7	5	0	1	0	0	0	3.0	11.3
Hourly Avg	0.3	0.3	0.3	0.3	0.3	0.3	1.5	1.6	3.4	2.8	2.8	2.3	2.5	2.1	1.5	1.6	0.8	1.0	0.7	0.4	0.4	0.4	0.4	0.3		
Hourly Max	0.7	0.5	0.5	0.5	0.5	0.6	17.6	13.7	22.7	22.7	17.1	21.4	15.9	14.8	17.2	10.0	7.5	10.3	5.4	1.4	0.7	0.8	0.6	0.9		

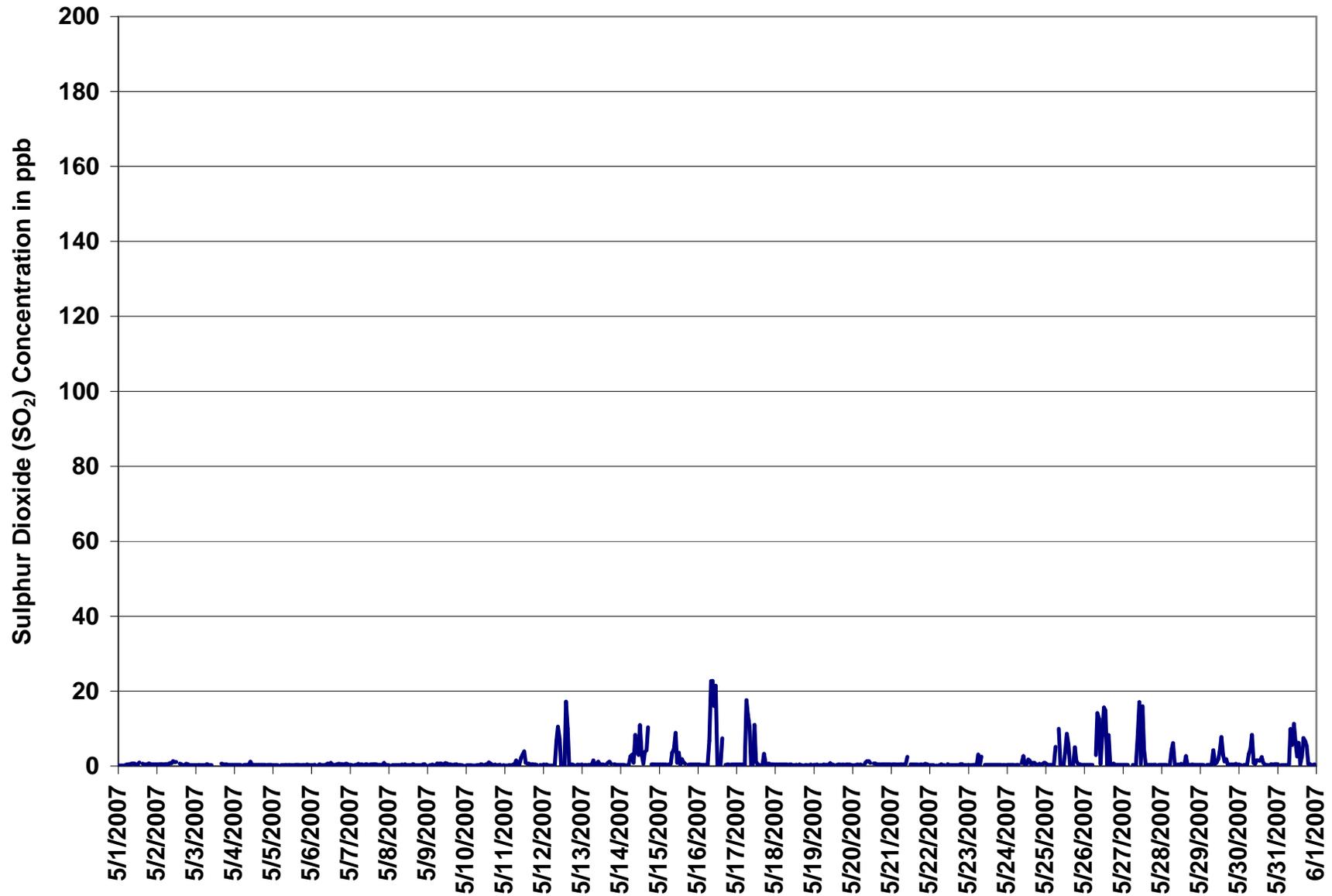
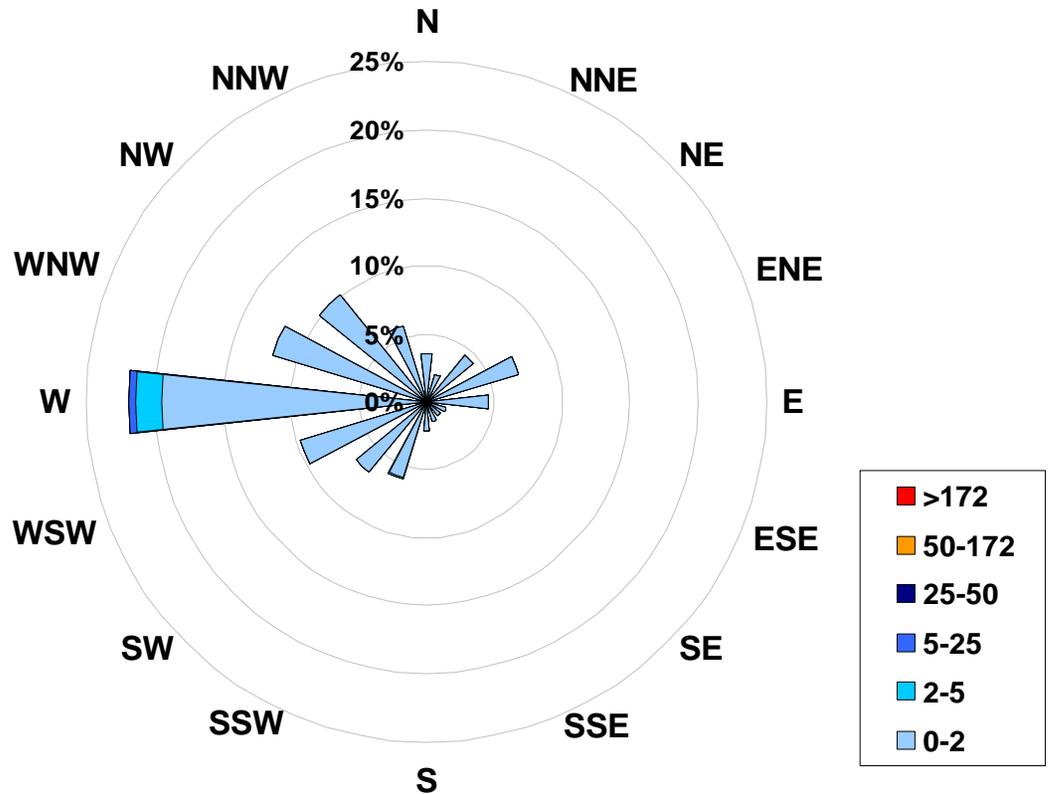


Figure 21. PASZA - Evergreen Park Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Evergreen Park Site for May 2007**



**Calms: 0%**

Frequency Distribution of SO <sub>2</sub> in ppb			
Range		Frequency (hrs)	
0.0	< 2	688	
2	to 5	15	
5	to 25	3	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values		706	

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

Station: Evergreen Park  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

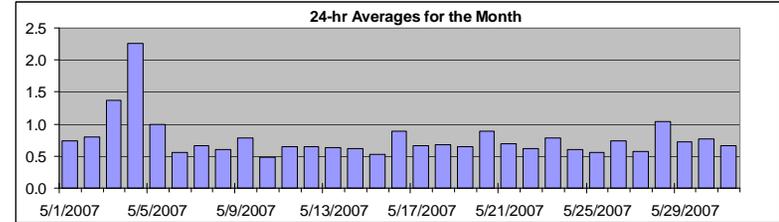
### Total Reduced Sulphur (TRS)

Monitoring Dates: May 1, 2007 to June 1, 2007

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

**Summary**

Maximum 1-hr Average:	9.9	ppb	4-May	0:00 1:00
Maximum 24-hr Value:	2.3	ppb	4-May	



AIC Time:	31 hrs	Operational Time:	706 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	99.6%
Percentile	99	95	75
	3.2	1.4	0.8
	50	25	5
	0.6	0.5	0.4
	1	0.3	Average
	0.8	ppb	Median
	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-May-07	0	1	1	0	1	1	2	2	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0	0.7	1.8	
2-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	2	1	1	1	1	0.8	1.9	
3-May-07	1	1	1	1	1	1	1	1	1	1	1	C	C	C	C	A	3	1	1	1	1	8	1	1.4	8.3		
4-May-07	10	8	6	3	2	A	1	1	2	1	2	1	1	1	1	1	1	1	3	5	1	1	1	2.3	9.9		
5-May-07	1	4	3	3	A	1	2	0	1	1	0	1	1	1	0	1	1	1	1	1	1	0	0	1.0	3.7		
6-May-07	0	0	0	A	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7		
7-May-07	1	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0.7	1.7	
8-May-07	0	A	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	0.6	1.4	
9-May-07	A	1	1	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	0	0	A	0.8	2.0	
10-May-07	0	0	0	0	0	1	1	1	1	1	1	0	1	1	1	1	0	0	0	1	0	0	0	A	0	0.5	1.0
11-May-07	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	A	0	1	0.7	1.1	
12-May-07	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	A	0	1	0	0.6	1.9
13-May-07	0	0	0	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.6	1.2
14-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	A	1	1	1	1	1	0.6	0.7
15-May-07	1	1	1	1	0	0	1	1	1	1	0	1	0	0	1	0	0	A	0	0	0	1	0	1	0.5	0.8	
16-May-07	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	2	1	0.9	1.6	
17-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0	1	1	1	1	1	1	1	0.7	0.8
18-May-07	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	0.7	0.8
19-May-07	1	1	1	1	1	1	0	1	0	1	1	1	1	A	1	1	0	1	1	1	1	1	1	1	1	0.6	1.1
20-May-07	2	1	1	0	1	1	0	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	3	2	0.9	2.6	
21-May-07	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0	1	1	1	1	1	1	1	1	1	0.7	1.4
22-May-07	1	0	1	1	1	1	1	1	1	0	A	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0.6	1.0
23-May-07	0	0	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3
24-May-07	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0	1	0	1	0	1	1	1	1	0.6	0.8
25-May-07	1	1	1	1	1	1	1	A	1	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	0.6	0.9
26-May-07	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	0.7	1.4
27-May-07	1	1	0	0	P	P	0	1	1	1	1	1	0	0	1	0	0	1	0	1	1	1	P	0	1	0.6	1.0
28-May-07	1	1	1	1	A	1	1	2	2	1	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1.0	1.8
29-May-07	1	0	0	A	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.2
30-May-07	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	2	1	1	0.8	1.7
31-May-07	1	A	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	1	1	1	1	0.7	1.4
Hourly Avg	1.1	1.0	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.7	0.8	0.8	1.0	0.7		
Hourly Max	9.9	8.3	6.0	2.8	1.6	1.5	1.7	1.8	2.2	1.5	1.8	1.7	1.1	1.0	0.8	1.3	3.2	1.2	1.0	3.0	4.5	1.7	8.3	2.1			

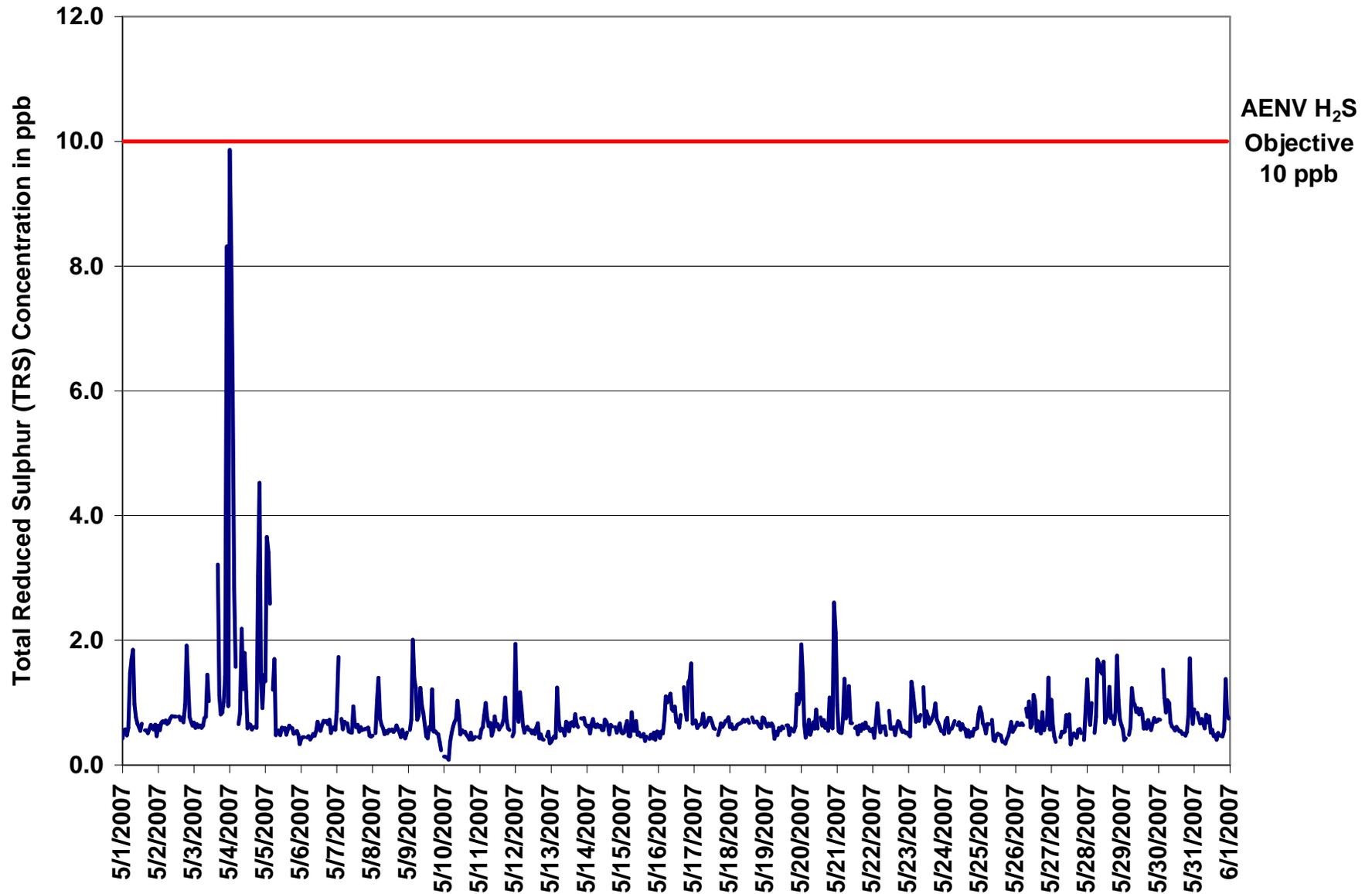


Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park  
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

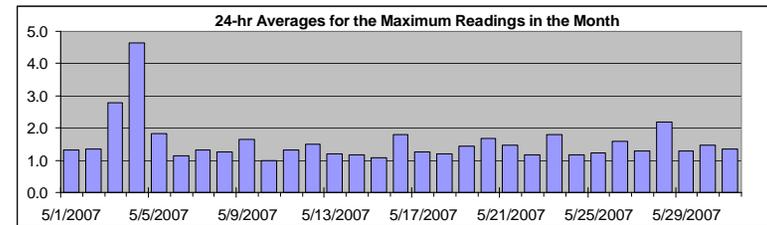
Total Reduced Sulphur (TRS)

Monitoring Dates: May 1, 2007 to June 1, 2007

Summary

Maximum 1-hr Value:	16.0	ppb	4-May	0:00 1:00
Maximum 24-hr Value:	4.6	ppb	4-May	

AIC Time:	31 hrs	Operational Time:	706 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.7	3.4	1.4	1.2	1.1	0.9	0.8	1.5 ppb	1.2 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-07	1	1	1	1	1	3	2	3	2	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1.3	3.2
2-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	2	3	2	1	1	1	1.3	3.0
3-May-07	1	1	1	1	1	1	1	1	1	5	3	C	C	C	C	A	6	3	1	1	2	3	14	4	2.8	14.2
4-May-07	16	13	14	12	5	A	1	1	3	2	4	3	1	1	1	1	1	1	8	10	3	2	2	2	4.6	16.0
5-May-07	2	6	5	5	A	2	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.8	5.7
6-May-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.4
7-May-07	3	3	A	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1.3	3.2
8-May-07	1	A	1	3	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.3	3.1
9-May-07	A	1	1	4	4	3	1	2	2	2	1	1	1	1	1	1	4	1	1	1	1	1	1	A	1.7	4.2
10-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.0	1.5
11-May-07	1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	2	1	2	2	1	1	A	1	1	1.3	2.3
12-May-07	5	2	2	2	2	3	1	1	1	1	1	1	1	1	2	1	1	1	1	1	A	1	1	1	1.5	4.7
13-May-07	1	1	1	1	3	1	1	1	1	1	2	1	1	2	1	1	1	1	1	A	1	1	1	1	1.2	2.7
14-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	A	1	1	1	1	1	1.2	1.5
15-May-07	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1.1	1.6
16-May-07	1	1	1	1	1	2	2	2	3	2	2	2	1	1	1	1	A	2	2	1	4	3	4	1	1.8	3.9
17-May-07	1	1	1	1	1	1	2	1	1	1	2	2	1	1	1	A	1	1	1	1	1	1	1	1	1.3	2.1
18-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1.2	1.4
19-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	2	4	2	3	1.4	4.1
20-May-07	3	3	2	1	1	2	1	1	1	2	2	1	A	2	1	1	1	1	1	2	1	1	3	3	1.7	3.5
21-May-07	2	1	1	1	3	4	1	1	2	1	1	A	1	1	1	1	1	1	1	1	1	2	1	1	1.5	4.1
22-May-07	1	1	1	2	1	1	1	1	1	1	A	1	1	1	1	1	1	2	1	1	1	1	1	1	1.2	1.8
23-May-07	1	1	5	4	3	1	2	1	2	A	4	1	2	1	1	1	1	2	2	1	1	1	1	1	1.8	4.7
24-May-07	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	1.4
25-May-07	1	1	1	1	1	1	1	A	3	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1.2	2.6
26-May-07	1	1	1	1	1	1	A	2	2	3	1	2	2	3	1	1	1	1	3	1	2	1	3	1	1.6	3.4
27-May-07	2	2	1	1	P	P	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	P	1	3	1.3	3.0
28-May-07	4	3	1	3	A	1	1	3	4	3	3	3	1	2	2	2	2	1	1	2	4	2	1	1	2.2	3.9
29-May-07	1	1	1	A	1	1	2	2	2	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1.3	2.1
30-May-07	1	1	A	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	2	3	1	1.5	2.7
31-May-07	2	A	1	1	1	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1.3	2.2
Hourly Avg	2.1	1.9	1.9	2.0	1.7	1.6	1.4	1.4	1.6	1.5	1.6	1.3	1.3	1.3	1.2	1.2	1.4	1.3	1.3	1.4	1.7	1.5	1.9	1.5		
Hourly Max	16.0	13.3	14.0	11.8	4.5	4.1	4.0	3.2	3.9	5.2	3.8	3.3	2.4	2.8	1.9	2.4	5.5	2.8	2.5	7.7	9.8	4.1	14.2	3.9		

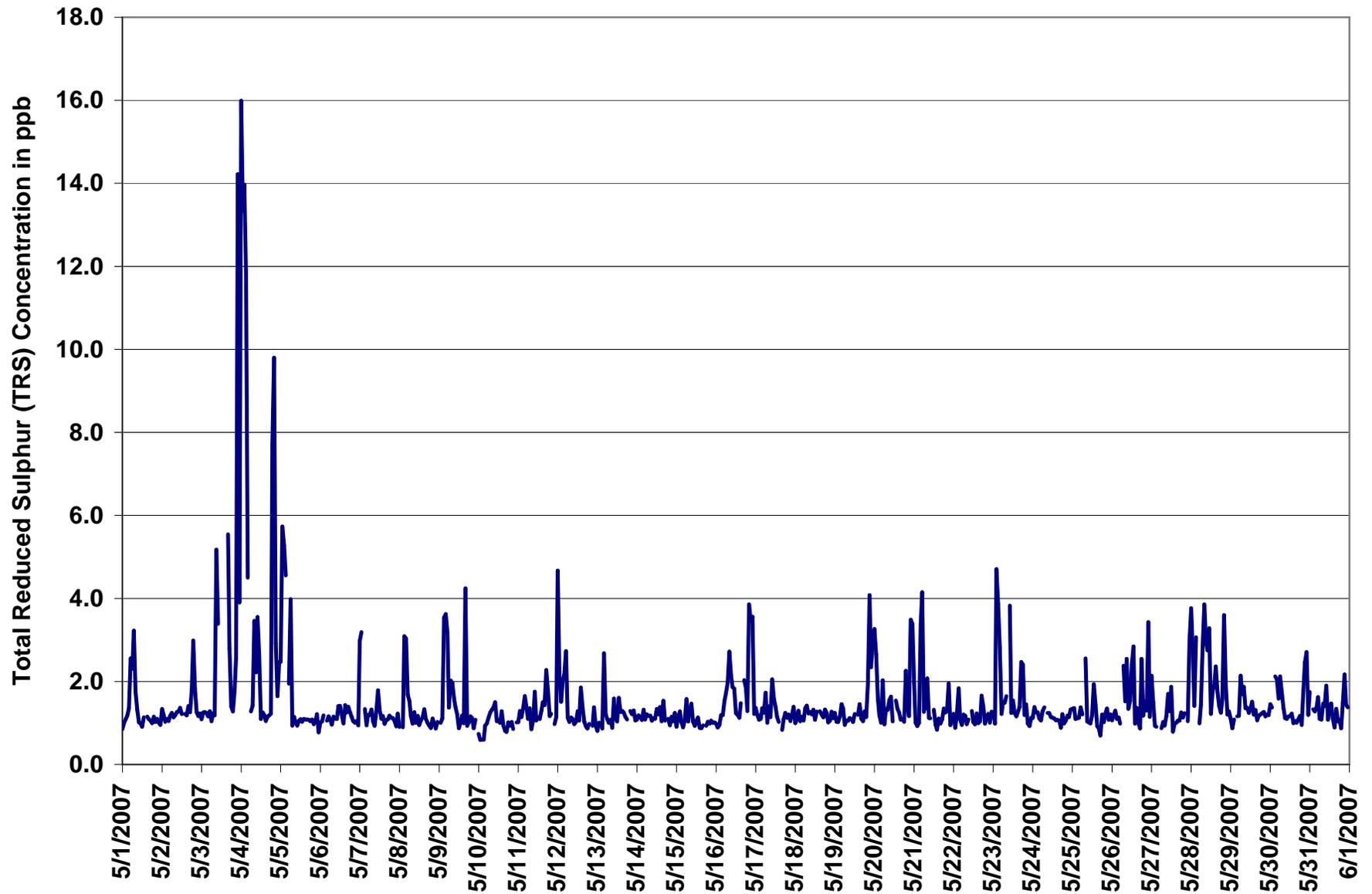
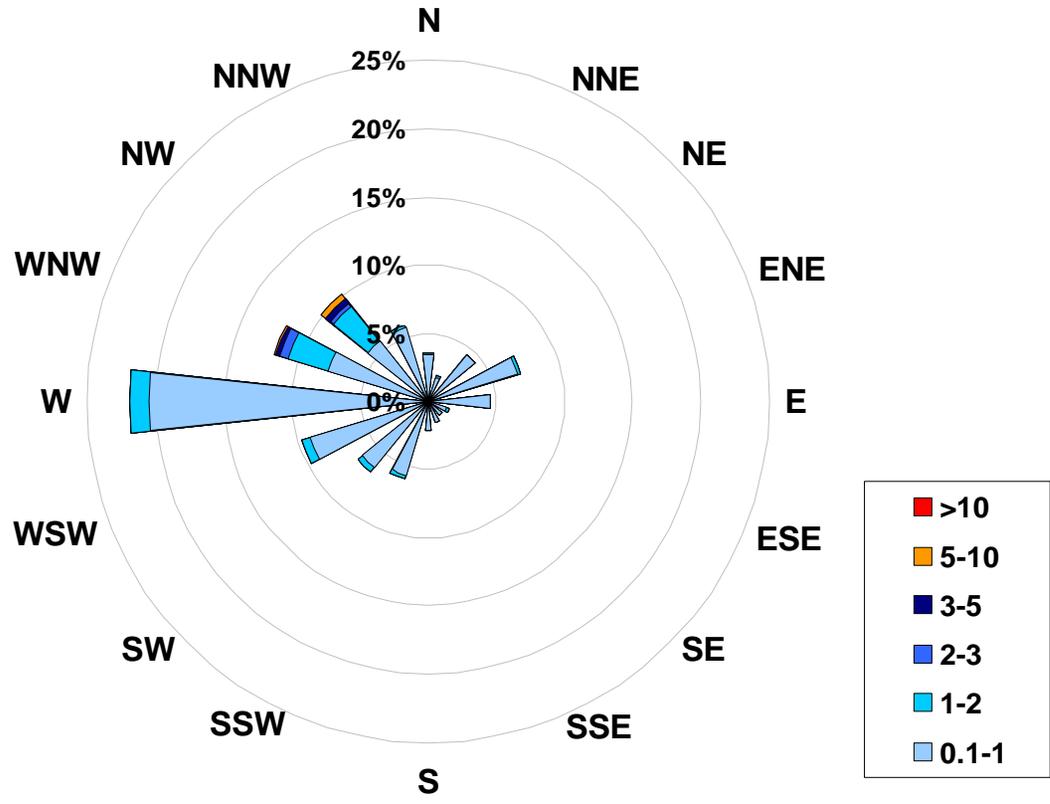


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)  
Located at the Evergreen Park Site for May 2007**



**Calms: 0%**

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	621
1	to	2	70
2	to	3	6
3	to	5	5
5	to	10	4
	>	10	0
Total Non-Zero Values			706

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

Station: Evergreen Park  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

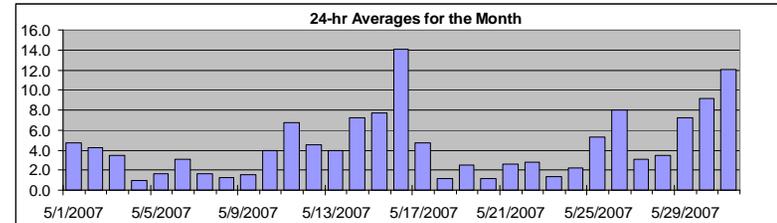
### Particulate Matter (PM<sub>2.5</sub>)

Monitoring Dates: May 1, 2007 to June 1, 2007

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

Number of 24-hr Exceedances (draft): 0			
Maximum 1-hr Average:	60.0	µg/m³	31-May 23:00 0:00
Maximum 24-hr Value:	14.0	µg/m³	16-May

AIC Time:	0 hrs	Operational Time:	740 hrs									
Calibration Time:	1 hrs	AMD Operational Uptime:	99.6%									
Percentile	99	95	75	50	25	5	1	Average / Median	4.4	3 µg/m³	Geomean	3.5 µg/m³
	23.9	12.0	5.8	3.3	1.4	0.0	0.0					



#### 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																							24-hour Average	Daily Maximum	
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
1-May-07	7	8	5	4	6	8	11	12	12	9	0	0	1	1	1	2	2	1	3	5	5	3	3	4	4.7	12.4
2-May-07	4	5	5	5	4	4	4	4	3	3	3	4	4	6	7	4	4	3	5	6	6	3	2	2	4.2	6.6
3-May-07	3	3	4	3	3	4	4	4	4	2	5	5	4	8	C	6	3	3	3	3	3	2	1	0	3.5	7.7
4-May-07	0	0	0	0	0	0	2	3	1	0	1	0	0	1	1	2	3	3	2	2	0	1	0	0	1.0	3.0
5-May-07	1	0	0	1	1	1	0	0	0	1	1	1	2	1	2	2	2	3	3	3	3	4	5	3	1.7	4.6
6-May-07	4	2	3	2	2	4	4	5	0	1	0	2	5	16	6	3	1	4	2	2	2	1	2	2	3.1	16.1
7-May-07	2	1	2	2	2	2	4	3	3	1	1	1	2	2	1	2	1	1	1	1	1	2	1	1	1.7	3.7
8-May-07	0	2	0	0	1	1	2	3	1	0	0	0	0	1	2	1	1	0	1	1	2	2	2	3	1.2	3.4
9-May-07	2	2	3	2	1	1	2	2	3	2	2	1	0	1	0	3	2	0	1	1	3	0	0	0	1.5	3.3
10-May-07	1	1	1	0	1	4	8	9	4	6	4	1	0	1	4	4	4	3	5	8	8	5	7	9	4.0	9.1
11-May-07	9	6	6	9	11	11	11	7	5	4	8	5	5	7	3	4	4	4	4	5	7	7	11	12	6.8	11.6
12-May-07	14	6	2	3	2	4	3	1	0	10	1	8	6	5	10	10	3	3	2	2	3	3	3	4	4.5	14.5
13-May-07	5	3	3	4	4	5	5	6	2	2	1	0	2	2	3	3	3	3	3	6	6	6	8	9	3.9	8.8
14-May-07	8	6	8	8	6	10	14	12	8	6	4	2	7	3	4	4	8	8	3	7	18	7	6	6	7.2	18.5
15-May-07	4	4	5	5	5	9	25	14	14	8	8	5	6	3	4	6	6	6	6	8	8	7	8	10	7.7	25.4
16-May-07	8	8	9	10	11	14	26	29	39	15	19	26	4	2	7	38	10	9	9	11	10	10	6	5	14.0	39.4
17-May-07	4	3	3	4	1	4	21	14	11	6	2	3	0	1	2	1	2	4	6	4	6	6	2	2	4.7	21.5
18-May-07	2	1	2	1	1	1	1	1	1	0	1	1	1	2	1	0	0	0	1	1	1	2	2	2	1.1	2.1
19-May-07	0	1	2	2	2	2	3	3	4	3	2	3	2	3	3	3	2	4	4	5	7	1	1	0	2.5	6.6
20-May-07	1	0	2	0	1	1	1	2	3	0	1	1	0	0	1	0	0	0	1	1	3	4	3	2	1.2	3.6
21-May-07	4	3	2	2	4	5	5	2	2	1	2	1	2	0	1	1	0	1	6	5	4	5	3	3	2.6	6.2
22-May-07	2	4	2	3	4	7	7	3	3	4	4	8	1	2	1	0	1	1	0	2	1	3	1	0	2.8	8.2
23-May-07	0	2	3	2	1	1	1	1	2	5	3	1	2	2	1	0	0	2	1	0	1	1	0	1	1.3	4.6
24-May-07	1	3	4	2	3	4	6	5	5	1	0	0	0	0	1	0	0	0	1	1	4	5	3	4	2.2	6.1
25-May-07	3	4	3	3	5	8	1	7	6	3	3	2	4	4	5	3	4	4	6	6	10	13	9	10	5.3	13.1
26-May-07	15	13	14	11	9	11	8	8	9	11	5	4	12	6	8	7	8	5	4	3	5	4	4	5	8.0	14.5
27-May-07	5	4	2	1	P	P	1	0	0	12	1	9	3	0	2	3	3	4	4	4	4	P	4	6	3.1	12.0
28-May-07	5	2	0	0	1	3	6	3	1	2	2	2	3	3	4	5	6	6	4	4	5	6	4	5	3.5	6.4
29-May-07	5	6	6	6	5	9	19	14	17	8	4	2	4	2	1	3	3	6	7	4	6	5	20	12	7.3	20.0
30-May-07	7	9	9	9	9	17	15	18	16	10	10	6	5	4	7	5	4	5	12	3	9	10	10	11	9.1	17.8
31-May-07	12	11	14	7	8	14	19	6	9	7	9	4	3	3	4	6	7	7	11	13	11	7	38	60	12.0	60.0
Hourly Avg	4.5	4.0	3.9	3.6	3.8	5.7	7.8	6.5	6.2	4.2	3.8	3.2	3.1	3.1	3.1	4.2	3.1	3.3	3.9	4.1	5.2	4.5	5.5	6.2		
Hourly Max	14.5	13.1	14.2	11.3	10.6	17.2	26.5	29.1	39.4	15.5	18.8	26.4	12.5	16.1	9.6	37.7	10.1	9.2	11.6	12.8	18.5	13.1	37.8	60.0		

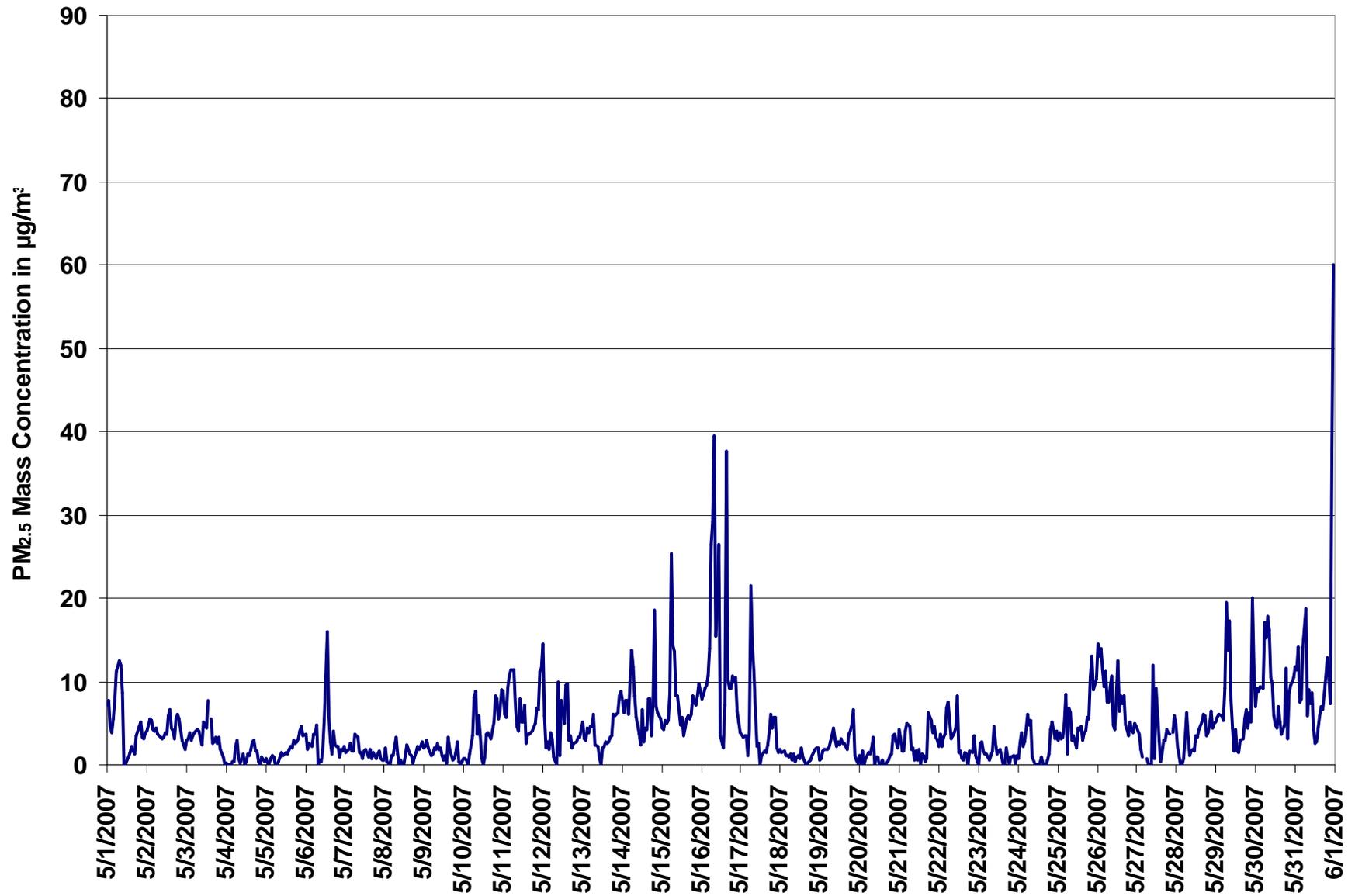


Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

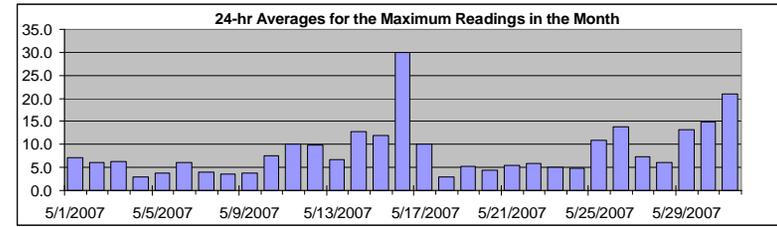
**Particulate Matter (PM<sub>2.5</sub>)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Average:	129.5	µg/m <sup>3</sup>	16-May	15:00 16:00
Maximum 24-hr Value:	30.0	µg/m <sup>3</sup>	16-May	

AIC Time:	0 hrs	Operational Time:	740 hrs							
Calibration Time:	1 hrs	AMD Operational Uptime:	99.6%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	42.1	21.7	10.0	5.7	3.8	2.0	1.2	8.5	6 µg/m <sup>3</sup>	7.1 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**

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-07	9	13	6	6	9	10	15	16	15	14	1	2	3	2	3	4	4	2	5	6	7	6	5	5	7.0	16.0
2-May-07	6	7	7	7	6	5	6	5	4	5	5	5	5	10	9	6	7	5	8	7	8	5	3	3	6.0	10.2
3-May-07	4	4	6	4	5	6	6	6	6	5	16	12	9	12	C	10	6	4	5	4	5	5	2	2	6.3	15.6
4-May-07	2	1	1	2	3	3	6	7	4	2	5	2	2	3	2	4	5	5	3	3	2	1	3	2	3.0	6.8
5-May-07	2	2	2	2	3	3	2	1	3	3	3	3	4	5	5	5	4	5	5	5	4	6	6	6	3.7	6.4
6-May-07	5	4	5	4	4	6	6	7	2	2	2	4	12	31	15	5	4	7	5	4	5	3	4	3	6.2	31.1
7-May-07	5	4	4	4	3	3	7	7	5	3	4	4	4	4	3	4	3	4	4	3	2	4	3	2	3.9	7.2
8-May-07	4	4	3	2	3	3	6	6	3	1	3	2	1	4	5	3	3	7	3	3	3	4	4	4	3.5	7.3
9-May-07	4	4	5	4	3	3	4	3	4	4	4	3	2	3	5	6	5	5	4	4	5	4	2	2	3.8	5.5
10-May-07	3	3	3	2	4	6	10	12	9	8	9	4	4	5	9	6	6	5	17	12	13	9	9	14	7.6	17.4
11-May-07	12	8	9	12	13	13	16	11	7	7	10	7	8	17	7	5	6	6	6	7	10	10	19	16	10.1	18.9
12-May-07	18	19	4	5	3	7	6	3	7	18	14	15	11	8	26	31	6	7	3	4	4	4	5	6	9.8	31.1
13-May-07	8	5	6	7	6	7	8	15	4	5	5	3	5	4	5	4	4	5	5	9	7	13	14	11	6.8	15.1
14-May-07	12	10	11	10	9	17	22	22	14	13	7	5	17	5	7	9	15	22	7	19	26	11	11	8	12.9	26.0
15-May-07	6	5	6	6	10	12	50	21	19	16	19	10	9	5	7	8	9	8	7	11	9	9	10	12	11.8	50.5
16-May-07	12	12	11	12	14	17	39	40	72	39	33	65	7	4	101	130	19	15	18	18	12	13	9	7	30.0	129.5
17-May-07	6	5	5	5	3	11	43	33	25	12	9	14	3	4	4	4	5	8	13	7	7	9	3	4	10.1	43.3
18-May-07	4	3	3	2	3	2	3	3	3	2	3	3	3	6	3	1	2	2	2	2	3	3	4	3	2.9	5.7
19-May-07	2	2	3	3	3	5	5	5	6	6	5	5	6	5	5	6	5	10	6	10	13	5	4	4	5.2	12.7
20-May-07	2	3	4	2	2	3	3	3	11	2	5	5	2	2	4	4	5	6	6	7	6	6	5	4	4.3	11.5
21-May-07	6	5	3	4	7	7	6	4	4	3	4	4	7	3	5	5	3	6	11	8	6	9	4	4	5.4	10.7
22-May-07	5	6	4	6	6	13	14	8	6	6	11	13	5	4	3	2	4	3	2	4	4	5	2	2	5.8	13.6
23-May-07	2	5	6	6	4	3	4	3	4	22	8	5	7	7	5	1	3	8	5	3	3	4	3	3	5.1	21.5
24-May-07	2	6	6	5	6	10	9	9	9	4	1	0	2	3	3	4	5	2	4	7	7	5	6	4.9	9.7	
25-May-07	5	6	7	6	8	15	11	11	24	5	7	6	8	10	10	6	9	10	10	8	22	27	16	19	10.9	26.9
26-May-07	18	15	17	17	11	14	13	11	20	17	15	9	20	13	19	17	36	9	7	5	7	7	6	7	13.8	35.6
27-May-07	6	6	3	2	P	P	3	1	1	2	30	4	21	20	3	6	6	8	8	6	5	P	6	9	7.3	30.1
28-May-07	7	5	1	1	2	5	10	12	3	5	5	4	6	5	6	10	8	7	6	6	7	10	7	6	6.0	11.6
29-May-07	6	7	8	8	8	13	27	21	32	14	11	10	8	5	8	6	6	12	11	9	11	11	40	20	13.1	39.7
30-May-07	9	13	11	12	12	24	28	24	22	21	13	11	12	11	14	10	9	9	22	14	11	12	15	18	14.8	28.0
31-May-07	19	16	17	11	11	26	27	10	14	13	21	18	6	9	9	11	16	13	16	22	26	11	76	84	20.9	83.8
Hourly Avg	6.8	6.7	6.0	5.8	6.1	9.1	13.4	11.0	11.7	8.9	9.3	8.4	7.1	7.4	10.3	10.7	7.2	7.3	7.4	7.5	8.4	7.7	9.8	9.6		
Hourly Max	19.4	18.8	17.1	17.1	13.7	25.7	50.5	40.2	72.2	39.1	32.6	64.9	20.5	31.1	101.1	129.5	35.6	21.7	22.1	22.5	26.4	26.9	76.0	83.8		

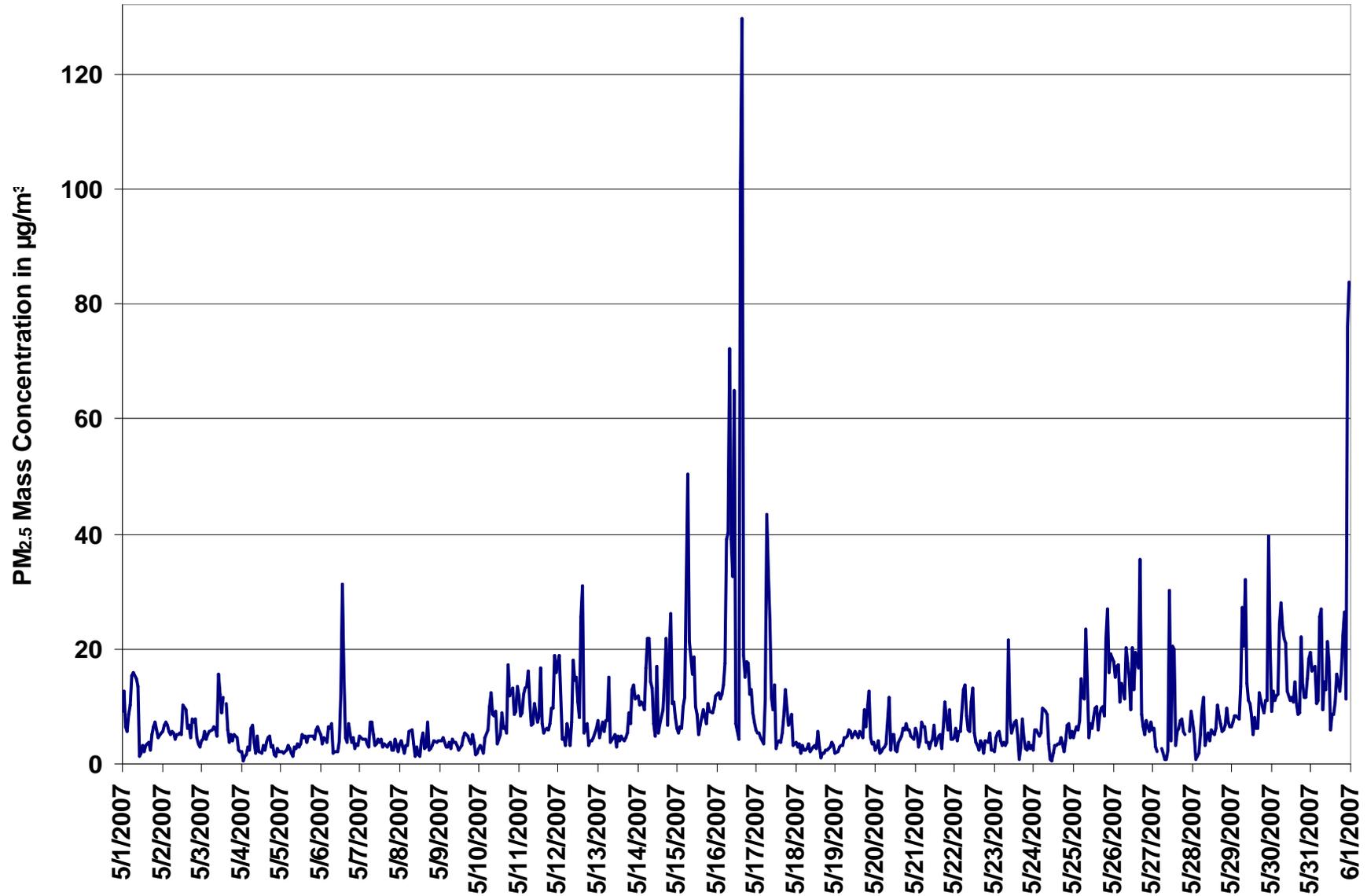
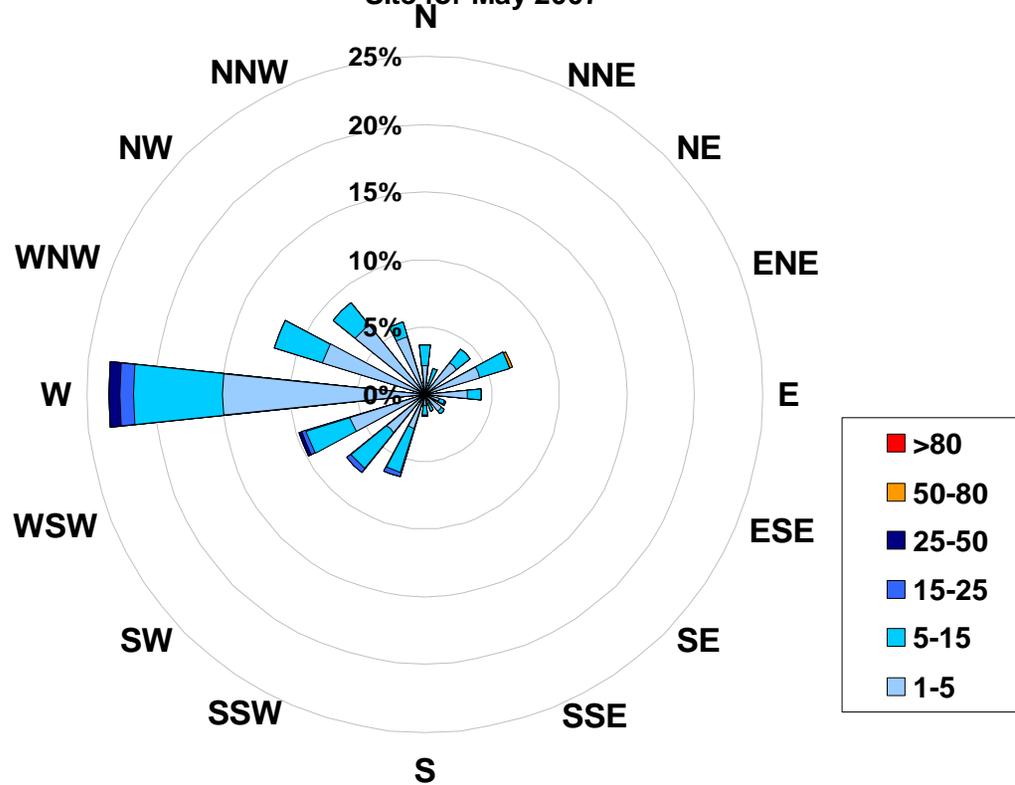


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

**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 May 2007**



**Calms: 0%**

Frequency Distribution of PM <sub>2.5</sub> in µg/m <sup>3</sup>			Frequency (hrs)
Range			
1.0	<	5	516
5	to	15	203
15	to	25	13
25	to	50	7
50	to	80	1
	>	80	0
Total Non-Zero Values			740

### PASZA - Evergreen Park - Temperature Monthly Summary

Station: Evergreen Park  
Station Owner: PASZA

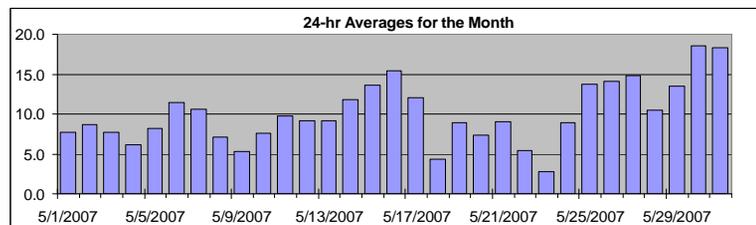
#### HOURLY AVERAGE TABLE

#### Ambient Temperature (T)

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Average:	28.4	°C	30-May	15:00 16:00
Maximum 24-hr Value:	18.6	°C	30-May	



AIC Time:	0 hrs	Operational Time:	741 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	26.2	21.5	13.8	9.0	5.7	0.6	-1.5	10.0 °C	9.0 °C

**Status Flag Characters**

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-May-07	0	0	0	0	0	-1	0	3	6	9	11	12	13	13	14	14	14	14	13	12	11	10	9	8	7.7	14.3	
2-May-07	8	7	7	7	7	6	7	7	9	11	13	13	13	12	10	9	9	9	9	8	8	8	7	7	8.7	13.1	
3-May-07	7	7	7	7	7	7	7	8	8	8	8	9	9	9	9	9	9	9	8	8	7	7	7	6	7.8	9.3	
4-May-07	6	6	5	5	5	5	5	5	6	6	7	8	8	8	8	7	7	7	6	6	6	6	6	6	6.2	7.7	
5-May-07	5	5	5	5	5	5	5	6	6	7	9	10	11	11	12	12	12	12	12	11	10	9	7	5	8.2	12.4	
6-May-07	5	6	6	6	4	2	6	10	13	13	15	15	15	16	16	16	16	16	15	14	14	14	13	12	12	11.5	16.1
7-May-07	10	8	8	8	8	7	8	9	10	11	11	12	12	13	13	13	13	13	13	12	11	11	10	9	10.6	13.5	
8-May-07	9	8	8	8	7	6	7	8	8	8	9	9	10	9	7	6	6	6	5	5	5	5	5	5	7.1	9.5	
9-May-07	4	5	5	4	3	3	3	3	4	4	5	6	8	9	10	7	6	8	9	9	6	3	1	1	5.2	9.6	
10-May-07	0	0	0	-1	-1	-1	0	4	7	9	11	13	14	14	14	14	15	15	14	13	10	7	6	6	7.6	15.2	
11-May-07	5	3	2	2	1	1	4	8	8	12	14	16	17	15	17	17	17	16	16	14	11	7	6	6	9.8	17.0	
12-May-07	7	8	6	5	5	5	5	6	8	9	10	11	12	12	13	13	13	13	13	12	11	9	8	7	9.2	13.2	
13-May-07	5	5	3	0	-1	-1	3	6	8	11	12	14	15	15	16	16	16	15	15	14	11	9	7	5	9.2	16.3	
14-May-07	5	4	3	3	5	6	6	8	10	13	14	16	17	17	18	18	18	18	18	16	14	14	12	10	11.8	18.3	
15-May-07	10	9	8	5	3	2	6	9	12	14	16	17	18	19	20	21	21	21	21	20	18	16	15	13	11	13.6	21.4
16-May-07	8	7	7	6	6	6	8	12	17	20	21	21	21	21	22	22	22	22	21	21	20	18	16	15	14	15.5	22.0
17-May-07	13	12	11	10	10	9	9	10	11	12	13	13	14	15	16	15	15	15	14	13	12	11	9	8	12.1	15.7	
18-May-07	6	5	4	3	3	3	2	2	2	2	3	3	4	5	6	6	6	6	6	6	6	6	6	6	6	4.4	6.0
19-May-07	5	5	5	5	5	5	6	6	8	9	10	11	12	12	13	13	14	14	14	14	12	8	7	6	6	8.9	14.3
20-May-07	5	4	4	4	4	5	6	6	6	7	8	8	8	10	10	11	11	11	11	10	9	7	6	4	7.3	11.4	
21-May-07	5	5	5	3	3	4	5	6	8	10	10	12	11	13	14	15	15	15	14	12	11	9	8	5	9.0	15.0	
22-May-07	3	2	1	1	0	1	5	7	10	13	14	9	8	7	6	6	6	7	7	7	6	4	2	0	5.5	13.9	
23-May-07	-2	-2	-1	1	1	1	1	2	3	4	2	3	4	5	5	7	7	7	5	7	6	3	0	-1	2.8	7.3	
24-May-07	-2	-2	-3	-3	-3	-3	1	4	7	9	11	12	14	15	16	17	18	19	19	19	16	12	12	10	8.9	18.9	
25-May-07	6	3	2	1	0	2	7	10	13	15	18	20	21	22	22	22	23	23	24	23	22	19	14	11	8	13.7	23.6
26-May-07	6	5	4	3	3	4	8	12	16	18	20	21	22	21	20	20	20	20	20	19	17	15	13	11	14.1	21.7	
27-May-07	9	10	12	11	P	P	11	12	14	15	16	17	17	18	19	19	19	18	18	17	16	P	13	12	14.9	18.8	
28-May-07	11	11	10	10	9	9	10	10	10	10	10	11	12	12	13	13	12	12	12	12	13	12	8	6	5	10.5	13.0
29-May-07	4	3	2	1	0	1	5	9	12	16	17	19	20	22	22	23	24	24	23	22	18	14	12	10	13.5	23.6	
30-May-07	9	8	7	6	5	7	12	14	17	20	22	24	26	27	28	28	28	28	26	24	22	21	19	18	18.6	28.4	
31-May-07	16	12	9	8	8	8	12	15	17	19	21	22	23	24	25	26	26	26	26	26	24	20	15	12	18.3	26.4	
Hourly Avg	6.1	5.5	4.9	4.3	3.7	3.8	5.8	7.7	9.4	11.0	12.3	13.1	13.7	14.3	14.6	14.7	14.8	14.8	14.3	13.7	12.0	10.0	8.6	7.4			
Hourly Max	16.5	12.2	11.6	11.4	9.7	9.0	11.8	14.9	17.2	19.7	22.1	24.4	25.7	27.3	27.7	28.4	28.1	27.7	26.2	25.8	23.8	20.7	18.8	17.8			

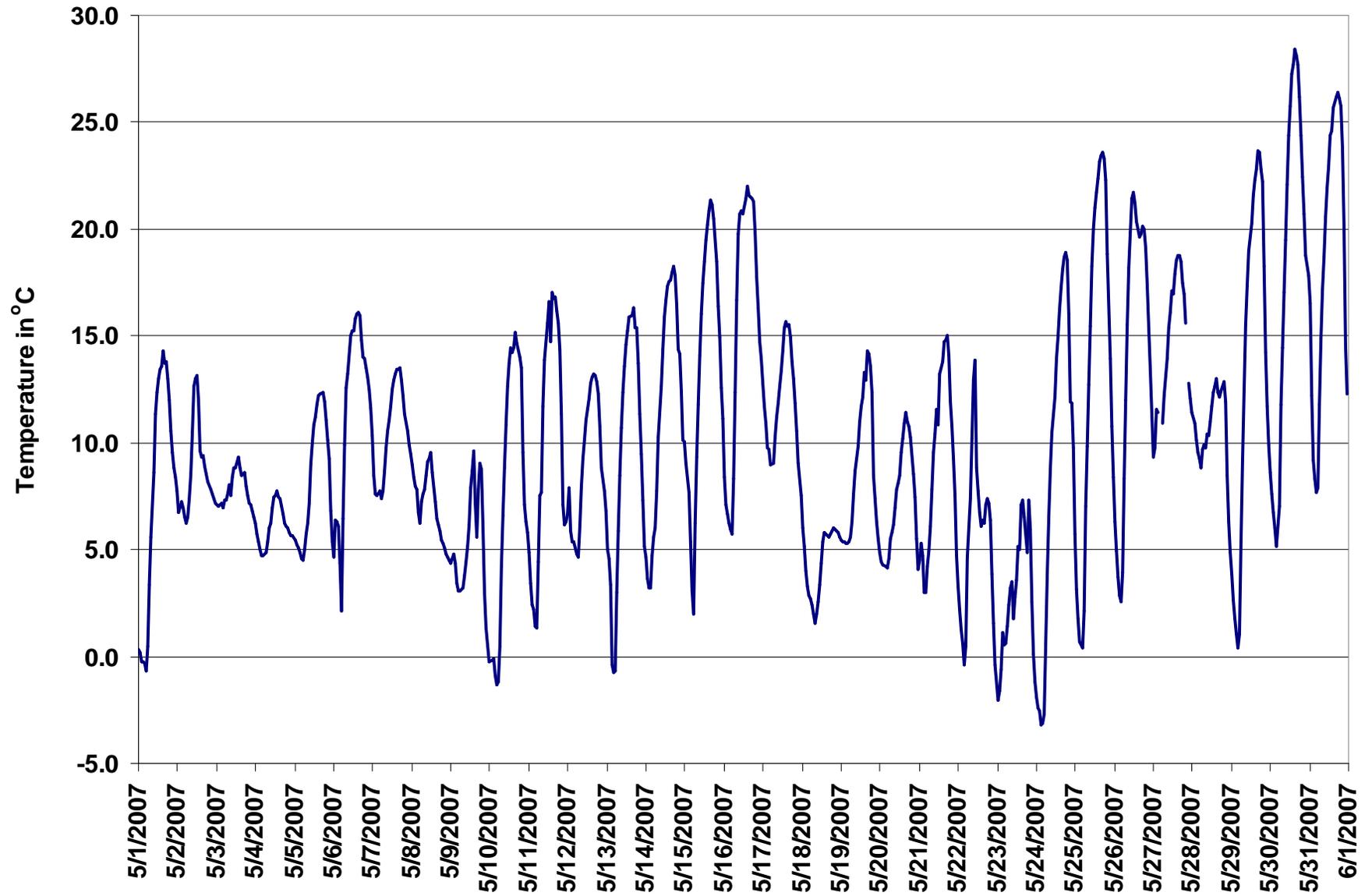


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

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

Station: Evergreen Park  
Station Owner: PASZA

## HOURLY AVERAGE TABLE

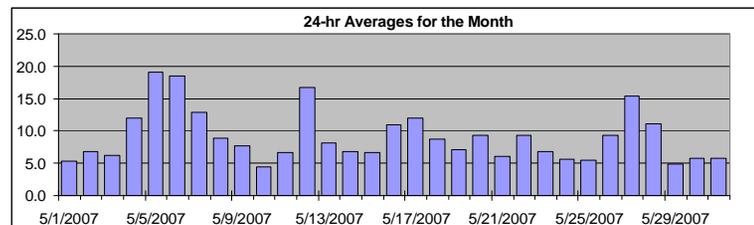
Wind Speed (WSs)

Monitoring Dates: May 1, 2007 to June 1, 2007

## Summary

Maximum 1-hr Average: 37.6 km/hr 6-May 13:00 14:00  
Maximum 24-hr Value: 19.1 km/hr 5-May

Calm Time:	0 hrs	0% calms	Operational Time:	740 hrs					
Calibration Time:	0 hrs		AMD Operational Uptime:	99.5%					
Percentile	99	95	75	50	25	5	1	Average	S
	28.2	20.5	11.6	7.8	4.9	2.6	2.1	9.0 km/hr	



## Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max		
	Hour Start	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-May-07	3	2	2	2	3	3	3	3	5	4	4	6	8	9	8	6	6	7	8	7	8	7	6	8	6	6	5.3	8.6
2-May-07	6	6	7	8	8	8	7	8	8	9	11	9	11	11	9	6	6	3	4	3	3	4	4	5	5	6.8	10.8	
3-May-07	4	4	5	3	5	4	5	4	4	8	6	5	6	10	5	5	9	11	8	8	10	9	6	7	6.2	10.8		
4-May-07	7	8	7	10	8	7	11	12	13	12	14	16	16	20	17	15	10	11	8	12	14	13	13	11.9	19.9			
5-May-07	14	13	14	15	15	16	19	20	24	28	30	30	30	30	27	24	23	21	20	12	10	11	5	7	19.1	30.4		
6-May-07	6	11	9	9	6	4	6	6	22	22	26	21	25	38	31	24	23	19	25	23	22	24	24	20	18.6	37.6		
7-May-07	13	5	6	9	12	8	10	10	16	18	15	13	12	13	18	16	18	17	20	18	14	9	8	9	12.9	19.6		
8-May-07	8	6	6	5	4	4	9	10	10	12	13	15	13	13	9	7	7	7	6	6	10	10	12	9	8.8	15.2		
9-May-07	7	12	10	12	10	11	10	11	10	9	9	8	7	7	6	10	6	4	5	4	3	2	2	2	7.7	12.3		
10-May-07	2	2	2	3	3	2	3	3	4	4	5	6	6	9	11	10	7	5	4	3	4	2	2	2	4.4	11.3		
11-May-07	3	2	3	3	2	3	3	4	5	7	7	6	8	13	8	12	17	16	12	11	5	4	4	3	6.7	16.9		
12-May-07	4	16	16	12	13	9	8	12	17	22	26	27	28	26	25	24	23	20	20	17	13	9	9	7	16.7	27.9		
13-May-07	6	8	6	4	4	5	5	7	8	8	10	14	14	14	12	12	10	13	7	5	4	3	3	8.1	14.0			
14-May-07	3	3	3	3	4	4	5	9	10	9	9	9	9	9	8	7	9	8	8	5	6	11	6	4	6.9	11.5		
15-May-07	6	5	5	3	3	2	5	9	7	7	6	8	8	7	7	8	9	11	11	8	8	7	5	4	6.6	11.3		
16-May-07	3	3	3	3	3	3	5	11	15	18	19	18	13	10	10	14	17	16	17	14	8	14	12	14	10.9	18.5		
17-May-07	15	12	13	9	13	13	14	16	18	14	13	12	15	11	12	11	9	8	7	8	8	10	11	13	11.9	18.3		
18-May-07	10	10	9	9	8	9	9	9	8	9	9	9	8	7	8	9	9	9	10	9	7	7	9	8	8.8	10.4		
19-May-07	9	8	8	7	5	4	3	3	5	7	7	9	9	9	5	8	8	5	8	8	5	10	10	9	9	7.0	10.5	
20-May-07	10	8	9	7	7	6	7	11	10	11	12	14	12	13	13	12	13	13	10	8	5	6	4	4	9.4	14.0		
21-May-07	5	5	4	3	5	4	4	5	4	5	6	7	11	8	9	8	8	8	6	12	6	8	4	3	6.1	11.7		
22-May-07	4	4	3	3	2	3	5	5	8	8	18	30	26	16	14	12	9	10	11	9	10	6	4	3	9.3	29.8		
23-May-07	3	3	3	8	9	9	10	11	12	12	10	11	7	8	7	6	5	6	8	5	5	4	2	2	6.9	12.4		
24-May-07	N	2	2	1	1	1	3	4	4	8	8	10	9	9	9	8	7	8	8	6	4	4	7	4	5.6	9.9		
25-May-07	3	3	2	3	6	5	8	8	8	6	5	7	8	8	8	7	6	5	6	6	3	5	3	3	5.5	8.4		
26-May-07	3	3	3	3	3	2	5	8	11	12	13	13	18	17	16	13	14	16	12	11	7	8	7	5	9.3	18.2		
27-May-07	4	6	9	14	P	P	9	14	19	21	20	20	18	17	20	18	19	21	21	19	16	P	11	8	15.4	21.1		
28-May-07	8	11	12	11	10	9	12	15	13	14	12	13	15	14	16	15	18	15	12	8	4	3	3	2	11.1	18.4		
29-May-07	3	3	2	3	2	3	3	4	3	5	5	8	8	7	8	7	6	8	7	6	5	4	3	2	4.8	8.2		
30-May-07	3	3	3	4	4	5	5	7	5	6	5	6	6	6	7	7	7	8	5	12	7	6	5	6	5.7	12.2		
31-May-07	6	4	3	6	5	3	5	7	7	8	6	7	9	6	8	7	6	6	6	5	6	4	2	3	5.7	9.2		
1-hr Average	6.1	6.1	6.1	6.3	6.1	5.6	7.0	8.6	10.2	11.0	11.6	12.5	12.8	12.5	12.0	11.2	11.3	10.8	10.5	9.2	7.9	7.6	6.7	6.3				
Hourly Max	15.4	15.8	16.3	15.1	14.7	16.0	18.8	20.3	24.2	28.4	29.8	30.4	29.6	37.6	31.5	24.2	23.4	21.1	25.1	23.4	22.4	24.3	23.6	20.5				

# PASZA - Evergreen Park - Vector Wind Speed Monthly Summary

Station: Evergreen Park  
Station Owner: PASZA

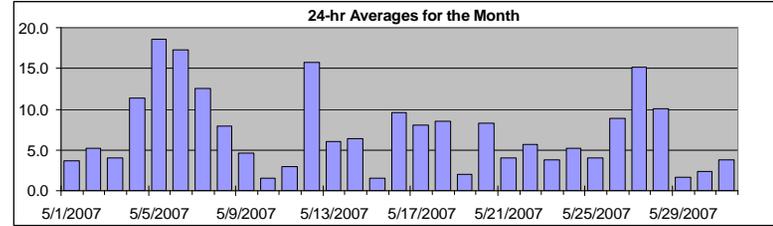
## HOURLY AVERAGE TABLE

## Wind Speed (WSv)

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Average:	37.1	km/hr	6-May	13:00 14:00
Maximum 24-hr Value:	18.6	km/hr	5-May	



Calm Time:	14 hrs	2% calms	Operational Time:	726 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.5%				
Percentile	99	95	75	50	25	5	1	AverageV
	27.9	20.2	10.9	7.0	4.1	1.5	0.9	26.0 km/hr

**Status Flag Characters**

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max		
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00
1-May-07	1:00	calm	2	2	1	1	2	2	4	4	2	5	6	8	5	1	4	6	7	7	7	6	8	6	6	3.7	8.0
2-May-07	6	6	7	8	8	8	7	8	8	8	10	8	10	10	8	6	2	3	3	2	4	3	5	5	5	5.2	9.8
3-May-07	4	4	5	3	4	3	5	4	1	7	5	4	6	10	3	4	9	10	8	7	10	9	6	7	4.0	10.5	
4-May-07	7	8	7	10	8	6	11	12	13	12	11	13	16	16	20	17	15	10	10	8	11	13	13	13	11.3	19.7	
5-May-07	14	13	14	15	14	16	18	20	24	28	30	30	29	29	26	24	23	21	19	12	10	11	4	7	18.6	29.9	
6-May-07	5	11	6	8	6	3	5	3	22	21	26	20	25	37	31	24	22	18	25	23	22	24	23	20	17.3	37.1	
7-May-07	13	4	5	8	12	8	10	10	16	18	15	12	12	13	17	15	18	17	19	18	13	9	8	9	12.6	19.4	
8-May-07	8	6	6	5	3	4	8	9	10	11	13	15	13	12	9	7	7	7	6	6	10	10	12	9	7.9	15.0	
9-May-07	7	12	10	12	10	10	10	10	9	8	9	9	7	6	3	5	7	6	4	4	4	3	1	2	4.6	12.1	
10-May-07	1	calm	calm	2	2	calm	1	2	3	1	3	1	3	5	9	9	5	2	2	3	4	2	2	2	1.5	9.1	
11-May-07	1	2	1	2	1	2	3	3	3	5	5	4	5	11	4	10	16	15	12	11	4	4	2	1	3.0	16.0	
12-May-07	4	15	16	11	13	6	8	12	17	21	26	26	27	25	24	23	22	19	20	17	13	9	9	7	15.7	27.1	
13-May-07	6	8	6	2	3	5	5	7	8	5	8	13	12	12	10	11	10	9	12	6	5	3	3	3	6.0	13.0	
14-May-07	3	calm	2	2	4	3	5	9	10	9	9	8	7	7	6	4	7	7	8	4	6	11	6	4	6.4	11.5	
15-May-07	6	5	5	3	3	2	5	8	7	6	5	3	4	5	3	4	8	11	10	8	8	6	5	4	1.6	10.9	
16-May-07	2	2	2	2	2	1	5	10	15	17	18	18	12	9	7	13	17	15	17	14	8	13	12	14	9.5	17.9	
17-May-07	15	12	13	9	13	13	14	15	18	14	11	11	14	10	11	10	8	6	7	8	7	9	11	13	8.1	17.9	
18-May-07	10	9	9	9	8	9	9	9	8	9	8	9	8	7	7	9	9	9	10	9	7	7	9	8	8.6	10.2	
19-May-07	9	8	7	7	4	4	calm	1	1	6	6	8	8	1	6	7	3	8	8	3	7	9	8	9	2.0	9.2	
20-May-07	10	8	8	6	7	6	7	11	10	11	11	14	11	12	12	12	12	13	10	7	5	5	4	3	8.3	13.5	
21-May-07	5	4	4	3	4	3	4	5	3	4	4	4	11	6	6	6	6	7	2	11	5	7	2	1	4.1	11.3	
22-May-07	3	1	calm	3	1	3	5	5	7	7	16	30	25	15	13	11	6	9	11	9	10	5	4	1	5.7	29.6	
23-May-07	1	3	2	7	8	9	10	11	12	9	9	11	4	1	6	5	2	2	7	4	5	2	1	1	3.8	12.0	
24-May-07	N	1	2	calm	1	calm	3	3	4	6	6	8	7	7	6	5	4	6	6	6	4	4	7	3	5.2	7.8	
25-May-07	1	1	1	1	6	5	8	7	8	6	4	5	6	5	3	3	2	2	3	5	3	5	2	3	4.0	7.9	
26-May-07	2	2	3	2	2	2	5	8	10	11	13	13	18	16	16	13	14	15	11	11	7	7	6	4	8.8	17.7	
27-May-07	3	6	8	13	P	P	9	14	19	20	20	19	17	17	19	17	19	21	21	19	16	P	10	7	15.2	20.8	
28-May-07	8	10	12	11	9	9	11	14	12	13	12	12	15	13	16	14	18	14	12	8	4	3	2	calm	10.1	18.2	
29-May-07	2	2	1	1	2	2	1	3	2	2	3	5	6	5	2	4	3	7	7	6	5	3	1	2	1.7	7.1	
30-May-07	2	calm	calm	3	4	5	4	6	5	6	3	3	4	3	4	5	5	7	2	12	7	6	5	5	2.3	12.0	
31-May-07	5	2	2	6	5	3	4	6	6	7	4	5	4	2	7	calm	4	4	6	5	4	4	1	calm	3.8	7.1	
1-hr Vector	3.0	3.2	3.4	3.6	3.4	2.9	4.5	6.2	8.0	8.0	7.6	7.8	7.9	7.4	7.4	6.0	7.0	5.8	5.8	4.2	3.4	3.4	3.2	2.8			
Hourly Max	15.3	15.3	16.0	14.8	14.2	15.8	18.0	20.0	24.1	28.2	29.5	29.9	28.9	37.1	31.0	23.7	23.0	20.8	24.9	23.1	22.2	24.2	23.5	20.3			

## PASZA - Evergreen Park - Wind Direction Monthly Summary

Station: Evergreen Park  
Station Owner: PASZA

### HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates:     May 1, 2007     to     June 1, 2007    

**Summary**

--

Calm Time:	0 hrs	0% calms	Operational Time:	740 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.5%				
Percentile	99	95	75	50	25	5	1	Average
	353.9	334.4	288.6	260.9	182.3	44.1	8.2	284 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-May-07	171	20	233	349	329	247	250	343	331	5	53	71	65	82	133	89	59	57	54	37	40	52	50	49	52	NE	
2-May-07	53	62	74	73	74	72	74	76	79	82	93	93	107	145	165	117	179	255	321	12	62	57	54	54	86	E	
3-May-07	58	60	72	68	52	84	70	71	82	293	353	11	287	277	13	318	303	319	350	327	313	315	317	324	340	NNW	
4-May-07	305	299	310	283	308	292	281	286	306	314	314	321	338	340	338	340	339	338	326	308	311	312	317	313	317	NW	
5-May-07	315	305	299	299	295	282	290	269	267	262	273	272	270	272	274	281	284	282	276	264	260	270	255	240	277	W	
6-May-07	232	238	237	230	184	134	165	204	246	247	249	267	272	265	278	276	275	283	268	261	265	267	271	271	261	W	
7-May-07	282	280	259	276	278	292	271	272	273	269	268	299	281	280	256	241	263	275	263	266	265	262	256	247	269	W	
8-May-07	243	243	264	294	306	330	266	253	222	219	215	209	203	206	225	230	241	230	250	253	259	252	263	256	239	WSW	
9-May-07	239	253	279	299	286	290	288	289	295	313	324	328	1	34	28	90	325	41	50	74	129	65	13	344	315	NW	
10-May-07	296	85	284	16	340	140	206	222	146	64	6	66	257	225	285	298	254	248	15	352	91	35	263	320	290	WNW	
11-May-07	304	356	313	215	253	244	271	218	221	66	151	136	203	219	278	309	293	297	336	344	44	56	214	292	284	WNW	
12-May-07	290	317	318	311	317	275	222	251	274	268	264	274	268	274	278	274	271	274	263	259	253	241	252	263	273	W	
13-May-07	255	265	257	318	277	204	229	256	282	280	291	281	280	293	323	316	318	345	343	30	44	50	258	216	297	WNW	
14-May-07	216	210	240	237	245	266	249	277	259	282	273	289	289	283	273	305	280	289	316	283	253	258	273	230	273	W	
15-May-07	251	287	281	290	201	336	262	278	273	291	283	304	252	200	278	24	58	60	57	63	73	79	69	84	333	NNW	
16-May-07	93	62	13	359	207	193	256	261	265	267	272	267	290	329	303	274	292	293	276	285	302	310	293	276	283	WNW	
17-May-07	280	283	280	265	269	282	264	279	279	277	313	314	327	326	357	351	342	335	42	34	22	45	47	56	314	NW	
18-May-07	57	58	56	57	55	65	61	63	65	58	66	77	81	75	82	82	80	78	75	76	83	87	99	99	72	ENE	
19-May-07	96	96	95	92	102	97	125	55	279	284	334	355	332	249	350	309	95	72	65	106	230	307	309	310	11	N	
20-May-07	299	297	267	242	251	287	271	258	264	286	289	274	315	326	334	337	329	324	331	304	332	312	293	310	300	WNW	
21-May-07	249	262	281	282	292	287	268	273	244	259	223	276	36	0	358	5	326	330	315	259	272	329	30	239	304	WNW	
22-May-07	196	355	153	216	247	213	201	204	202	225	330	335	335	10	8	9	324	285	329	355	343	33	47	48	333	NNW	
23-May-07	352	235	323	270	269	254	280	282	262	292	279	248	268	204	48	52	28	25	331	68	103	192	237	293	282	WNW	
24-May-07	N	267	207	277	206	241	187	142	222	173	158	180	168	201	192	190	188	169	166	156	146	163	170	167	178	S	
25-May-07	80	108	229	213	219	215	252	253	260	280	281	284	265	231	244	202	244	115	210	166	171	218	194	218	233	SW	
26-May-07	269	277	213	198	227	233	244	259	260	267	277	287	276	283	277	284	238	265	289	286	278	279	274	271	271	W	
27-May-07	316	277	264	254	P	P	243	251	259	261	272	269	272	266	265	271	268	264	266	261	259	P	275	292	266	W	
28-May-07	325	321	323	317	298	269	278	304	293	293	297	309	323	325	330	306	334	329	333	319	299	217	208	130	311	NW	
29-May-07	256	290	318	316	6	36	107	217	222	189	169	212	205	219	220	235	183	65	65	94	94	101	219	1	187	S	
30-May-07	355	352	280	221	204	212	263	273	258	209	197	206	252	219	200	123	121	91	20	326	312	309	284	269	250	WSW	
31-May-07	291	210	212	216	219	248	197	216	269	273	275	217	235	335	321	85	242	230	238	202	284	295	189	68	248	WSW	
Hourly Avg	290	296	288	283	280	271	260	266	265	271	279	284	286	277	293	299	292	303	306	296	288	298	284	288			

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

Station: Evergreen Park  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**


Determined by the Yamartino 15-min interval calculation

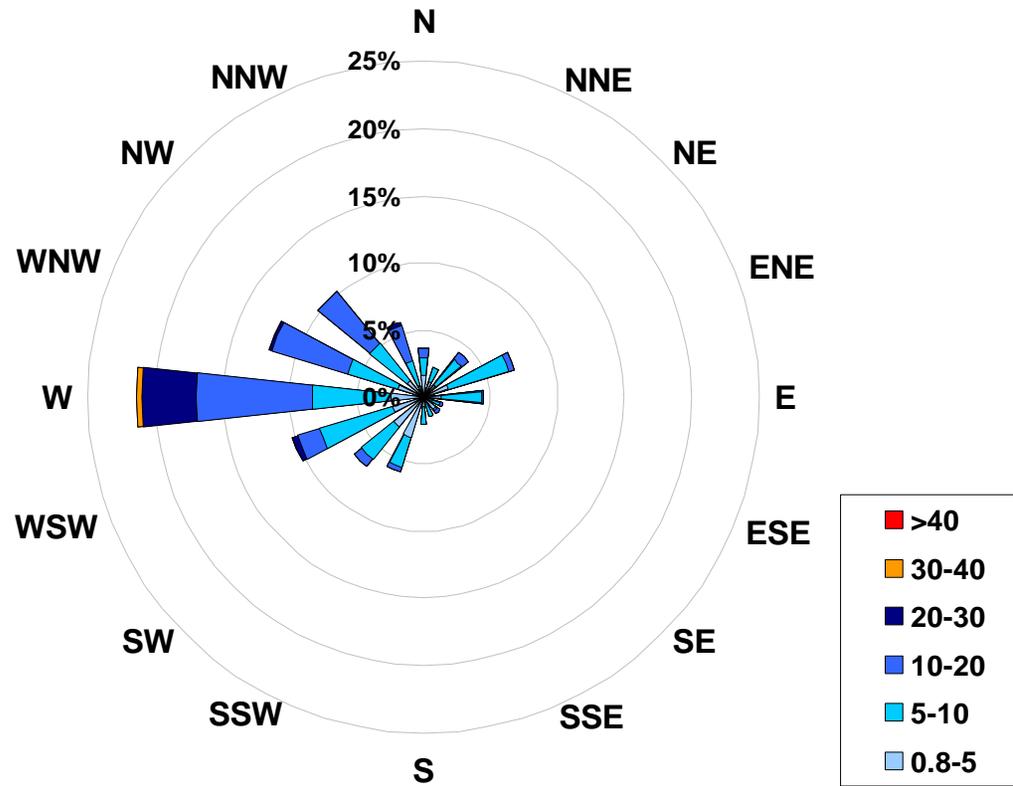
Calm Time:	0 hrs	0% calms	Operational Time:	740 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	99.5%			
Percentile	99	95	75	50	25	5	1
	65.6	54.1	31.1	16.2	11.4	6.9	5.8

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

**Day Mountain Standard Time**

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-May-07	29	45	38	28	21	30	49	13	31	50	46	39	23	42	48	54	24	16	13	8	7	6	7	7	54.4	
2-May-07	6	6	9	7	9	10	12	14	16	16	25	24	21	16	15	21	45	20	28	23	18	15	8	6	44.8	
3-May-07	8	8	10	19	14	26	14	28	47	17	19	29	15	13	17	41	13	13	19	10	11	12	23	12	46.6	
4-May-07	11	12	14	15	16	14	9	9	13	13	14	13	11	10	7	7	8	9	10	11	12	10	10	10	15.8	
5-May-07	10	11	12	11	13	8	11	8	6	7	7	10	10	9	9	10	11	11	10	7	7	8	14	20	20.4	
6-May-07	18	6	44	40	11	48	20	40	8	8	9	10	10	8	10	10	15	10	7	8	6	5	6	6	48.1	
7-May-07	10	18	14	8	10	12	9	11	12	10	14	19	16	16	14	11	10	10	7	7	5	6	7	6	19.2	
8-May-07	6	9	12	16	27	11	10	9	7	8	11	8	15	10	14	9	12	10	14	17	7	6	7	10	26.7	
9-May-07	12	8	10	13	12	12	11	13	14	14	18	20	27	33	53	34	47	22	23	17	21	23	27	32	52.7	
10-May-07	69	70	56	21	29	46	52	28	57	67	51	77	53	47	33	28	40	46	66	18	27	37	13	27	76.9	
11-May-07	40	22	34	35	35	32	22	39	31	38	44	44	47	50	52	29	15	16	16	14	21	18	46	55	54.7	
12-May-07	34	14	11	14	11	15	9	12	10	13	12	12	9	12	13	12	12	12	8	8	6	5	9	7	34.0	
13-May-07	6	7	36	31	29	7	18	15	19	49	40	22	23	28	31	29	34	23	18	20	8	20	17	10	49.0	
14-May-07	32	38	25	59	13	15	17	9	10	17	20	32	51	31	44	42	35	44	17	16	9	4	12	11	59.3	
15-May-07	10	15	11	13	31	26	13	11	17	23	51	52	43	63	49	44	29	14	10	10	7	7	9	7	62.8	
16-May-07	41	35	25	36	44	46	10	11	10	12	14	12	18	29	43	17	15	20	10	10	11	13	12	9	45.8	
17-May-07	9	9	9	6	7	11	6	12	12	19	23	26	19	31	27	30	26	29	22	19	33	24	9	9	32.6	
18-May-07	12	15	11	14	15	15	15	16	16	13	15	14	18	17	20	15	11	13	13	13	12	15	11	15	20.1	
19-May-07	13	14	14	16	26	30	65	62	45	30	31	30	28	64	42	27	48	20	24	34	23	18	21	12	64.7	
20-May-07	13	14	12	12	12	15	13	9	11	17	18	14	17	18	21	23	18	18	14	14	8	10	11	22	22.5	
21-May-07	9	12	15	15	22	18	10	16	35	33	60	47	16	52	51	51	42	32	43	10	24	14	45	50	60.2	
22-May-07	34	62	57	19	43	14	9	16	14	23	17	7	12	17	20	20	40	23	14	19	9	12	12	34	62.1	
23-May-07	43	36	26	15	13	8	13	15	13	15	12	12	42	36	27	39	61	28	19	32	13	29	38	23	61.1	
24-May-07	N	29	27	51	32	50	20	32	43	33	51	37	42	45	58	51	65	33	41	24	18	16	11	33	64.7	
25-May-07	63	52	51	38	25	6	7	9	13	31	54	49	33	62	67	57	56	69	37	22	16	32	29	20	69.3	
26-May-07	19	27	24	34	16	20	31	12	13	15	16	18	14	15	14	14	17	13	15	15	11	11	10	11	34.2	
27-May-07	31	24	14	6	P	P	9	8	9	11	13	16	13	14	14	14	13	9	10	7	7	P	11	13	30.5	
28-May-07	11	13	15	14	18	10	11	14	15	15	16	15	14	16	13	18	10	12	14	16	25	8	59	53	59.1	
29-May-07	28	43	28	32	35	35	27	36	45	65	52	49	34	60	42	61	61	27	18	21	11	11	19	26	64.6	
30-May-07	26	52	53	28	12	6	21	19	25	26	67	50	51	56	54	47	42	35	27	11	12	12	11	22	67.2	
31-May-07	20	32	34	6	9	18	14	14	25	31	54	49	45	63	27	50	61	51	31	21	30	23	47	57	62.8	
Hourly Max	69	70	57	59	44	50	65	62	57	67	67	77	53	64	67	61	65	69	66	34	33	37	59	57		

1-hr Average Wind Rose (in km/hr) Located at the Evergreen Park Site for May 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	189
5	to	10	312
10	to	20	199
20	to	30	37
30	to	40	3
	>	40	0
Total Non-Zero Values			740

# PASZA – Smoky Heights Station

## Monthly Summary Tables, Graphs, and Roses

# PASZA - Smoky Heights - Sulphur Dioxide Monthly Summary

Station: Smoky Heights  
Station Owner: PASZA

## HOURLY AVERAGE TABLE

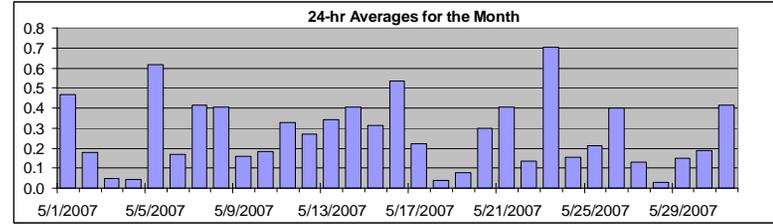
## Sulphur Dioxide (SO<sub>2</sub>)

Monitoring Dates: May 1, 2007 to June 1, 2007

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

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	5.7 ppb 5-May 22:00 23:00
Maximum 24-hr Average:	0.7 ppb 23-May

AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.1	1.0	0.3	0.1	0.1	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	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	0:00	
1-May-07	0	A	0	0	2	2	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.8
2-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	A	0.2	0.5
3-May-07	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
4-May-07	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	0.1
5-May-07	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	1	0	A	0	6	4	0	0.6	5.7
6-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0	1	0	0	0	0.2	0.5
7-May-07	1	1	1	1	0	0	0	2	1	0	0	0	1	0	0	0	0	0	0	A	1	0	0	0	0	0.4	1.8
8-May-07	0	0	0	0	0	2	0	1	1	1	0	0	0	0	0	0	0	A	0	0	0	0	1	0	0	0.4	2.1
9-May-07	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.2	2.1
10-May-07	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0.2	0.7
11-May-07	0	0	0	0	0	0	0	1	1	0	1	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0.3	1.0
12-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	1	0	2	1	0	0.3	2.0
13-May-07	0	0	0	1	0	0	0	0	1	1	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0.3	0.9
14-May-07	0	0	0	0	2	1	0	0	0	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.0
15-May-07	0	0	1	0	0	0	0	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
16-May-07	1	1	1	1	1	1	1	1	2	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	2.2
17-May-07	0	0	0	0	0	0	0	0	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
18-May-07	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
19-May-07	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
20-May-07	0	0	1	1	2	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.6
21-May-07	0	0	0	0	A	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	3	2	0	0	0	0.4	2.5
22-May-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.1	0.6
23-May-07	0	0	A	0	0	2	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0.7	3.7
24-May-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
25-May-07	A	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.8
26-May-07	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	1	1	1	A	0	0	0.4	1.3
27-May-07	1	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	0.7
28-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.0	0.1
29-May-07	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
30-May-07	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	0.3
31-May-07	0	0	0	0	0	1	1	1	1	1	1	C	C	C	A	0	0	0	0	0	0	0	1	0	0	0.4	0.9
Hourly Avg	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.4	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3			
Hourly Max	2.1	1.3	1.2	1.2	2.0	2.1	3.7	3.4	2.2	0.9	0.8	1.0	0.9	0.7	0.5	0.4	0.5	0.6	0.7	0.6	2.5	2.1	5.7	4.0			

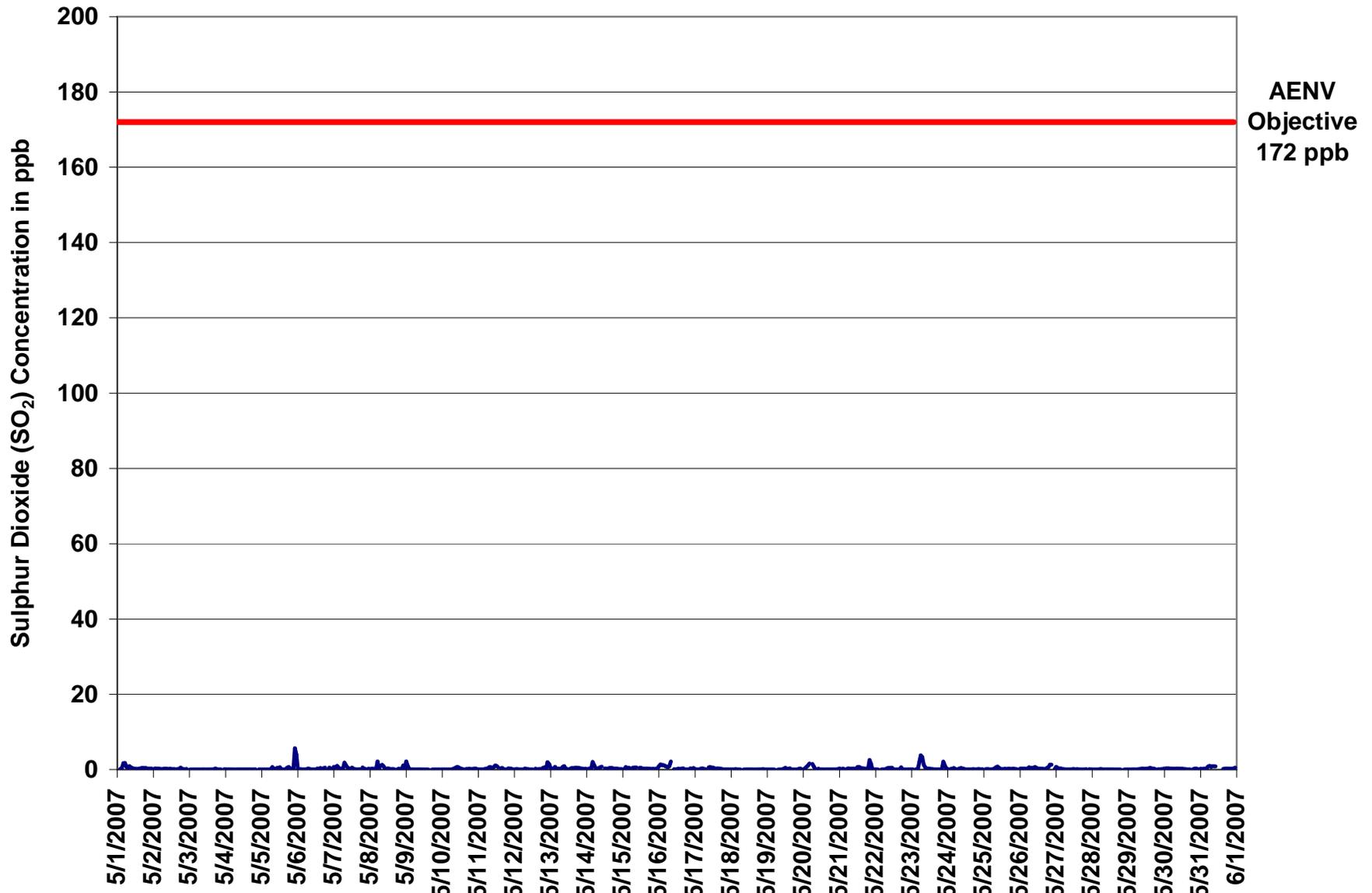


Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights  
 Station Owner: PASZA

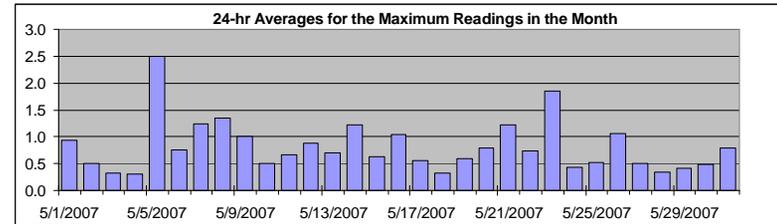
### INSTANTANEOUS (30 Second) MAXIMUM TABLE

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

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	19.4	ppb	5-May	23:00 0:00
Maximum 24-hr Value:	2.5	ppb	5-May	



AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	8.6	2.1	0.7	0.4	0.3	0.2	0.2	0.8 ppb	0.4 ppb

**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-07	0	A	0	1	3	4	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	0	1	0.9	4.4	
2-May-07	A	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	1	1	A	0.5	1.4
3-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.5	
4-May-07	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	A	0	0	0.3	0.6	
5-May-07	0	0	0	0	0	0	1	4	1	1	1	1	2	1	0	1	1	2	2	A	0	16	19	2.5	19.4	
6-May-07	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	2	2	A	0	3	0	0	1	0.8	2.5	
7-May-07	1	1	2	1	0	1	1	6	2	1	1	0	1	1	0	0	0	A	3	0	0	0	1	1.2	6.4	
8-May-07	0	0	0	0	0	9	1	3	4	2	0	0	1	0	0	0	0	A	0	0	0	0	4	1	1.3	9.0
9-May-07	15	3	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	1.0	15.0	
10-May-07	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	A	1	0	1	0	1	1	0	0.5	1.0	
11-May-07	0	0	0	0	0	1	0	1	1	1	1	1	1	1	A	1	1	0	0	1	1	1	0	0.7	1.4	
12-May-07	0	0	0	0	0	0	1	0	1	1	0	0	A	1	0	0	0	1	1	4	0	4	3	0.9	4.0	
13-May-07	1	0	1	2	0	0	0	1	1	2	1	0	A	1	1	1	1	1	1	1	0	0	0	0.7	1.9	
14-May-07	0	0	1	1	4	11	1	1	1	1	1	A	1	1	0	1	1	1	1	1	0	1	0	1.2	11.0	
15-May-07	0	0	1	1	1	1	1	1	1	1	A	1	1	1	0	0	1	0	0	1	0	0	1	0.6	1.4	
16-May-07	1	2	2	1	1	1	1	1	5	A	0	0	1	1	0	1	1	0	0	1	0	1	0	1.0	5.0	
17-May-07	0	0	0	0	1	1	0	0	A	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0.5	1.4	
18-May-07	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
19-May-07	0	0	0	0	0	0	A	0	0	0	0	1	1	0	3	3	0	0	0	0	1	1	0	0.6	2.8	
20-May-07	0	1	2	2	4	A	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.8	4.1	
21-May-07	0	0	0	0	A	0	1	0	0	1	1	0	2	1	1	1	0	1	1	9	7	0	0	1.2	8.8	
22-May-07	0	0	0	A	0	0	0	1	1	1	1	1	0	0	0	0	8	0	0	0	0	0	0	0.7	8.4	
23-May-07	0	0	A	1	0	9	11	7	2	1	1	1	0	0	0	0	0	0	0	0	4	2	1	1.8	10.9	
24-May-07	0	A	0	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7	
25-May-07	A	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	A	0.5	1.3	
26-May-07	1	1	1	1	0	1	1	1	1	1	2	1	1	1	1	1	0	2	2	3	4	A	1	1.1	3.7	
27-May-07	2	1	1	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	A	0	0	0.5	1.6	
28-May-07	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.9	
29-May-07	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	1	0	0	A	0	0	0	0	0.4	0.7	
30-May-07	1	1	1	1	1	1	0	0	1	1	0	1	1	0	0	0	0	A	0	0	1	0	0	0.5	0.7	
31-May-07	0	0	0	0	1	2	1	1	1	1	1	C	C	C	A	0	0	1	1	1	1	0	1	0.8	1.6	
Hourly Avg	1.0	0.6	0.5	0.6	0.8	1.5	1.0	1.2	1.0	0.8	0.7	0.6	0.7	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.9	1.0	1.2	1.3		
Hourly Max	15.0	2.6	1.6	1.9	4.1	11.0	10.9	7.2	5.0	1.9	1.5	1.5	1.9	1.2	2.8	2.6	2.0	8.4	2.1	2.8	8.8	7.0	15.6	19.4		

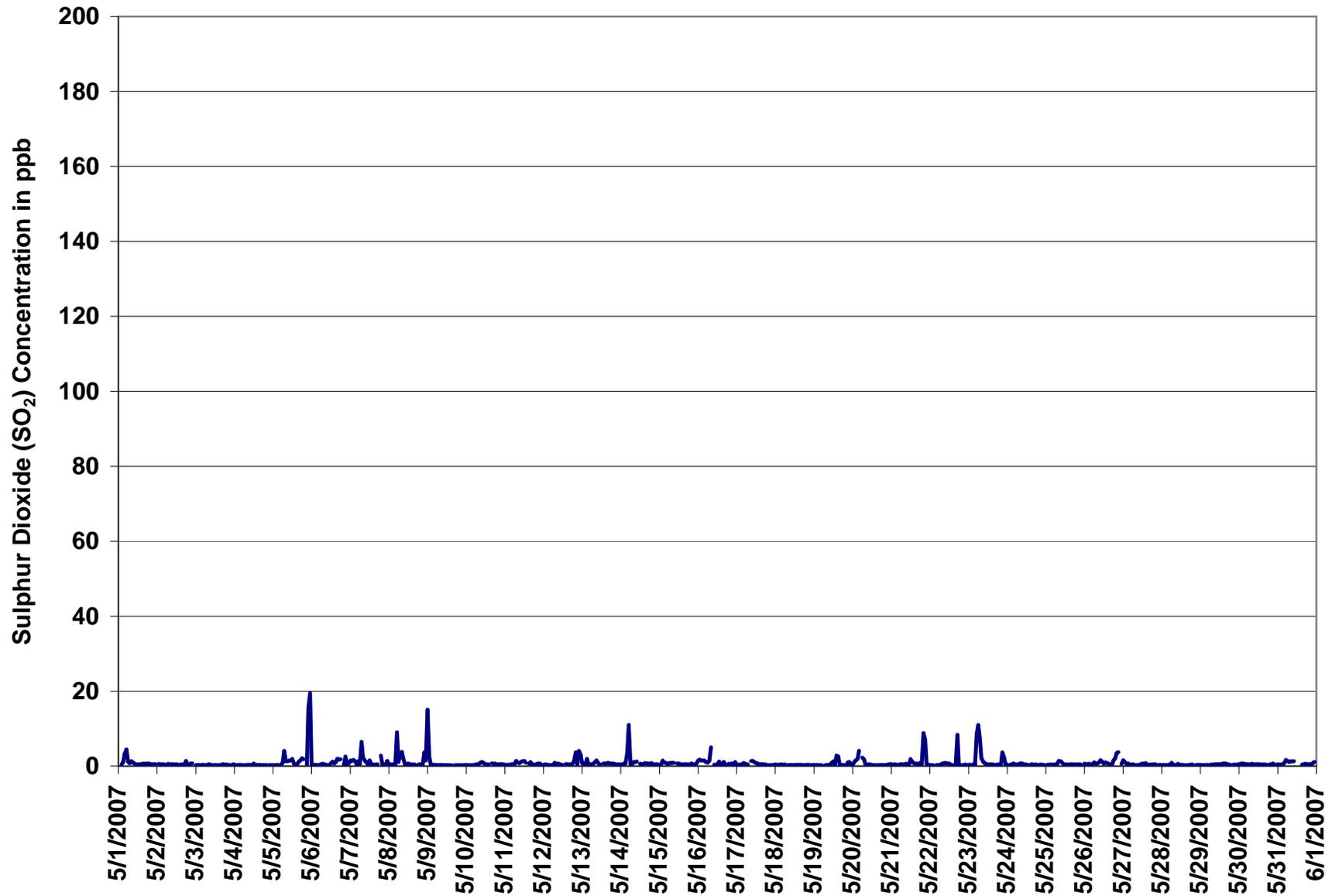
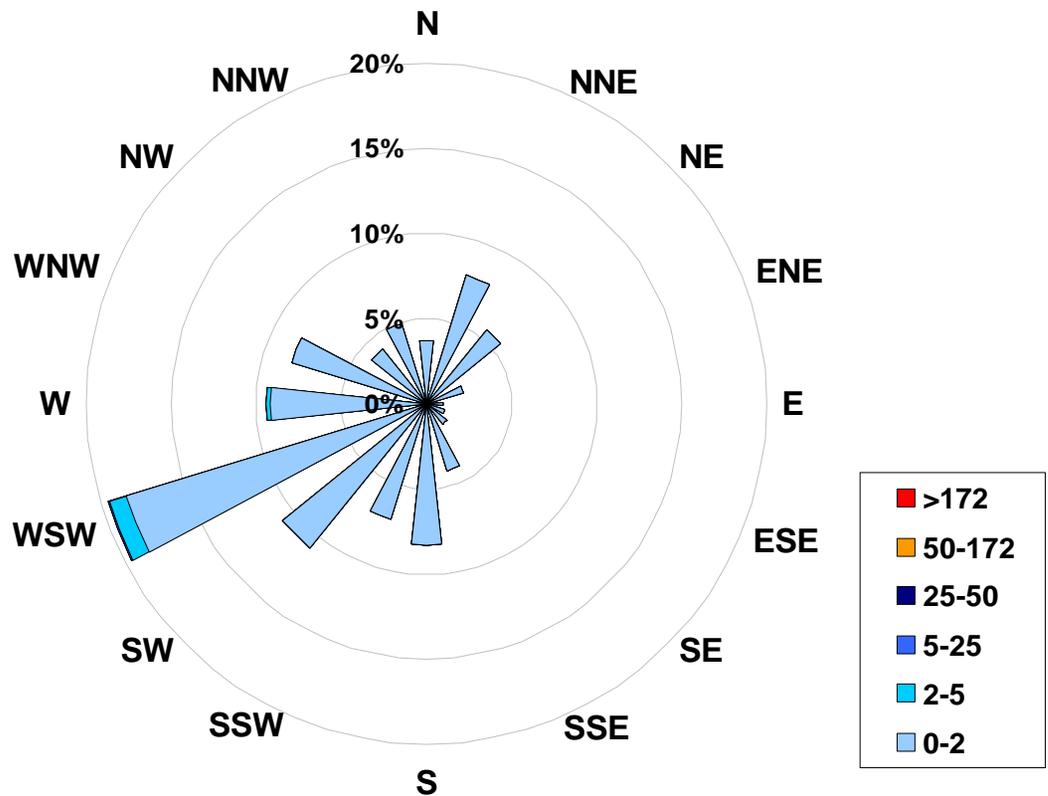


Figure 28. PASZA - Smoky Heights Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Smoky Heights Site for May 2007**



**Calms: 0%**

Frequency Distribution of SO <sub>2</sub> in ppb			
Range			Frequency (hrs)
0.0	<	2	698
2	to	5	9
5	to	25	1
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			708

## PASZA - Smoky Heights - Total Reduced Sulphur Monthly Summary

Station: Smoky Heights  
 Station Owner: PASZA

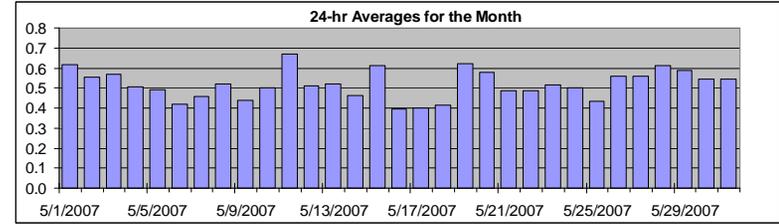
### HOURLY AVERAGE TABLE

### Total Reduced Sulphur (TRS)

Monitoring Dates: May 1, 2007 to June 1, 2007

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

Maximum 1-hr Average:	1.3 ppb	26-May	0:00 1:00
Maximum 24-hr Value:	0.7 ppb	11-May	



AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.9	0.7	0.6	0.5	0.4	0.3	0.2	0.5 ppb	0.5 ppb

<b>Status Flag Characters</b>			
C	Calibration	A	AIC - Zero / Span Check
S	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-May-07	0:00	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	0.6	0.9	
2-May-07	1:00	A	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	1	1	1	0	0	0	1	A	0.6	0.8	
3-May-07	2:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	A	1	0.6	0.8	
4-May-07	3:00	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	1	A	1	1	0.5	0.6	
5-May-07	4:00	0	1	1	1	0	1	1	1	0	0	0	0	0	0	0	1	1	1	0	1	A	1	1	1	0.5	0.6	
6-May-07	5:00	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	A	1	1	1	0	0.4	0.6	
7-May-07	6:00	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	A	1	1	1	1	1	0.5	0.7	
8-May-07	7:00	1	1	1	1	1	1	1	0	1	0	0	0	1	0	0	0	0	A	0	0	1	1	1	1	0.5	0.7	
9-May-07	8:00	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	A	1	0	0	0	0	0	0	0.4	0.5	
10-May-07	9:00	0	0	0	0	0	0	0	0	1	1	0	1	0	1	0	A	0	1	1	1	1	1	1	1	0.5	0.6	
11-May-07	10:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.7	0.8	
12-May-07	11:00	1	1	1	1	1	0	1	1	1	0	0	1	0	A	0	0	0	0	0	0	0	0	1	1	0	0.5	0.9
13-May-07	12:00	0	0	1	1	1	0	1	1	1	1	1	0	A	0	0	0	0	1	1	0	1	1	1	0	0.5	0.7	
14-May-07	13:00	0	0	0	1	1	1	0	1	1	1	1	A	0	0	0	0	0	0	0	0	0	0	1	1	0.5	0.8	
15-May-07	14:00	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0	0	0	0	0	1	1	1	0	1	0.6	1.1	
16-May-07	15:00	1	1	0	0	1	0	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.9	
17-May-07	16:00	0	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.4	0.5	
18-May-07	17:00	0	0	0	0	0	0	1	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0.4	0.6	
19-May-07	18:00	1	0	1	1	0	1	A	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	1.1	
20-May-07	19:00	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0.6	0.7	
21-May-07	20:00	0	0	0	0	A	0	0	1	1	0	0	1	0	1	1	1	0	1	0	0	0	1	1	0	0.5	0.6	
22-May-07	21:00	1	0	0	A	0	0	0	1	1	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0.5	0.7	
23-May-07	22:00	0	0	A	0	0	1	1	0	1	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1	0.5	0.6	
24-May-07	23:00	1	A	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.5	0.7	
25-May-07	0:00	A	0	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.4	0.7	
26-May-07	1:00	1	1	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	A	1	0.6	1.3	
27-May-07	2:00	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	1	1	0	1	0	A	1	1	0.6	0.8	
28-May-07	3:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0	0	1	0.6	0.8	
29-May-07	4:00	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	A	1	1	1	1	0.6	0.8	
30-May-07	5:00	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	A	1	0	0	1	1	0.5	0.8	
31-May-07	6:00	1	1	1	1	1	1	1	1	1	0	0	C	C	C	A	0	0	0	0	0	0	1	1	1	0.5	1.0	
Hourly Avg		0.6	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5			
Hourly Max		1.3	0.7	0.7	1.0	0.9	0.8	1.1	1.1	0.9	0.8	0.9	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.9	0.8	1.1		

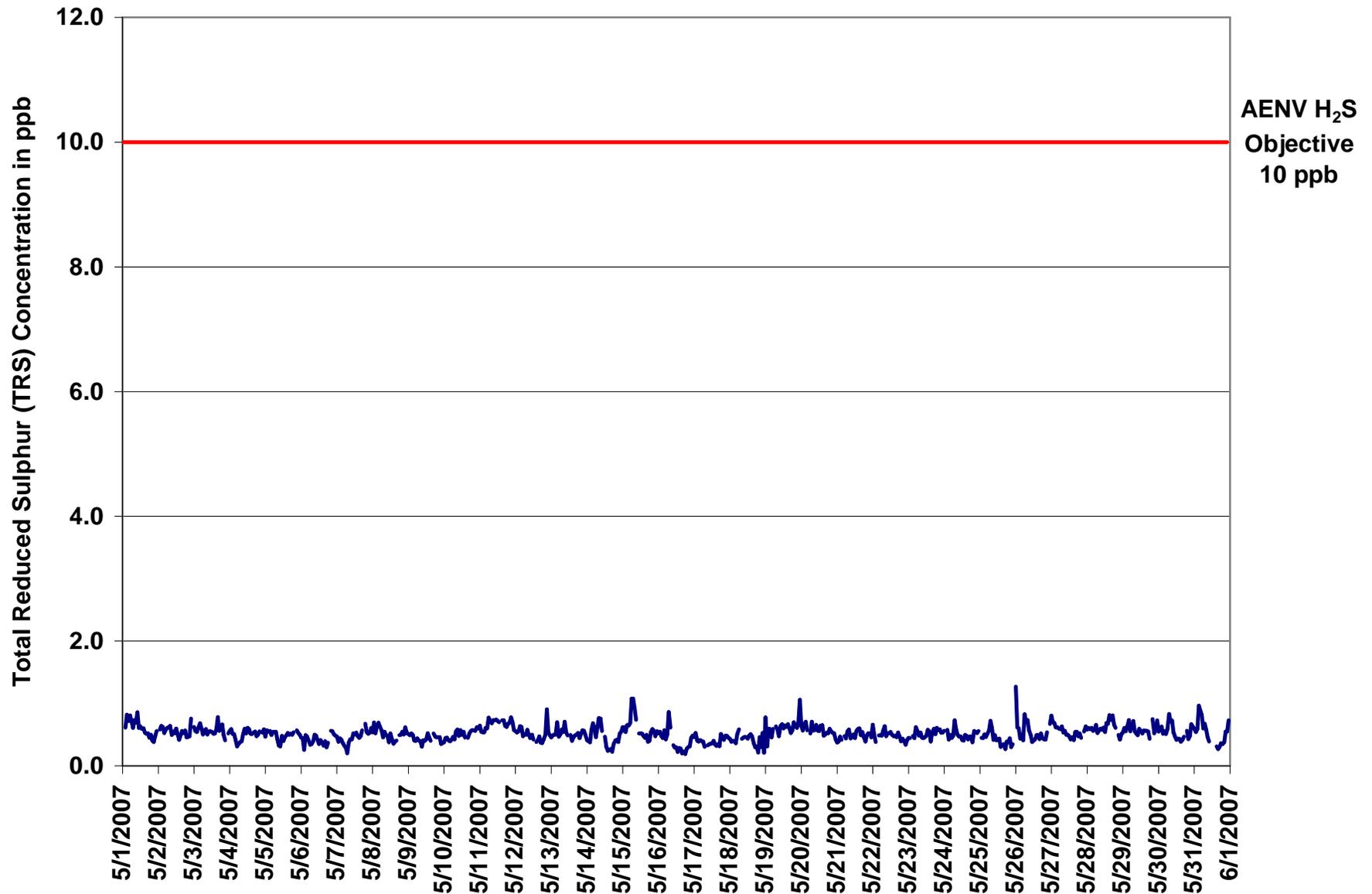


Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

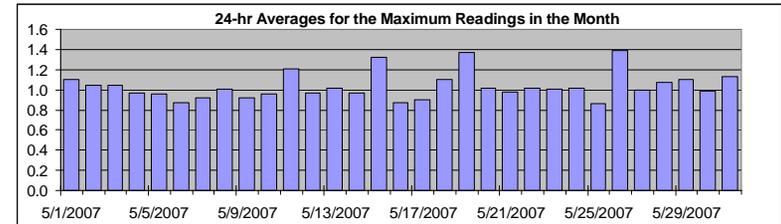
**Total Reduced Sulphur (TRS)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	8.9	ppb	26-May	0:00 1:00
Maximum 24-hr Value:	1.4	ppb	26-May	

AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.6	1.3	1.1	1.0	0.9	0.7	0.7	1.0 ppb	1.0 ppb



**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum	
1-May-07		A	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.6	
2-May-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.0	1.3
3-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.0	1.3	
4-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.0	1.3	
5-May-07	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	1.2	
6-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.9	1.3	
7-May-07	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	1.1	
8-May-07	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	1.3	
9-May-07	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	
10-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1.0	1.3	
11-May-07	1	1	1	1	1	1	2	1	1	1	1	1	1	1	A	1	1	1	1	1	1	2	1	1.2	2.2	
12-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	2	1	1.0	1.6	
13-May-07	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1.0	1.2	
14-May-07	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1.0	1.3	
15-May-07	1	1	1	1	1	1	2	2	2	1	A	1	1	1	1	1	1	1	1	2	2	2	1	3	1.3	2.6
16-May-07	1	1	1	1	1	1	1	2	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.7
17-May-07	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.5
18-May-07	1	1	1	1	1	1	2	A	1	1	1	1	1	1	1	1	1	2	1	1	1	3	1	1.1	3.3	
19-May-07	5	1	2	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1.4	4.7	
20-May-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.2	
21-May-07	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	1.3	
22-May-07	3	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.6	
23-May-07	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	1.4	
24-May-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1.0	1.7	
25-May-07	A	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	
26-May-07	9	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.4	8.9	
27-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.0	1.2	
28-May-07	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	1.3	
29-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	3	1	1	1	1.1	3.1	
30-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1.0	1.3	
31-May-07	1	1	3	2	1	1	1	1	1	1	1	C	C	C	A	1	1	1	1	1	1	1	1	1.1	2.9	
Hourly Avg	1.5	1.0	1.1	1.0	1.0	1.0	1.1	1.0	1.1	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.1		
Hourly Max	8.9	1.5	2.9	1.8	1.3	1.6	2.2	1.7	1.6	1.3	1.4	1.2	1.3	1.3	1.4	1.3	1.3	1.3	1.9	2.1	3.1	2.2	3.3	3.3		

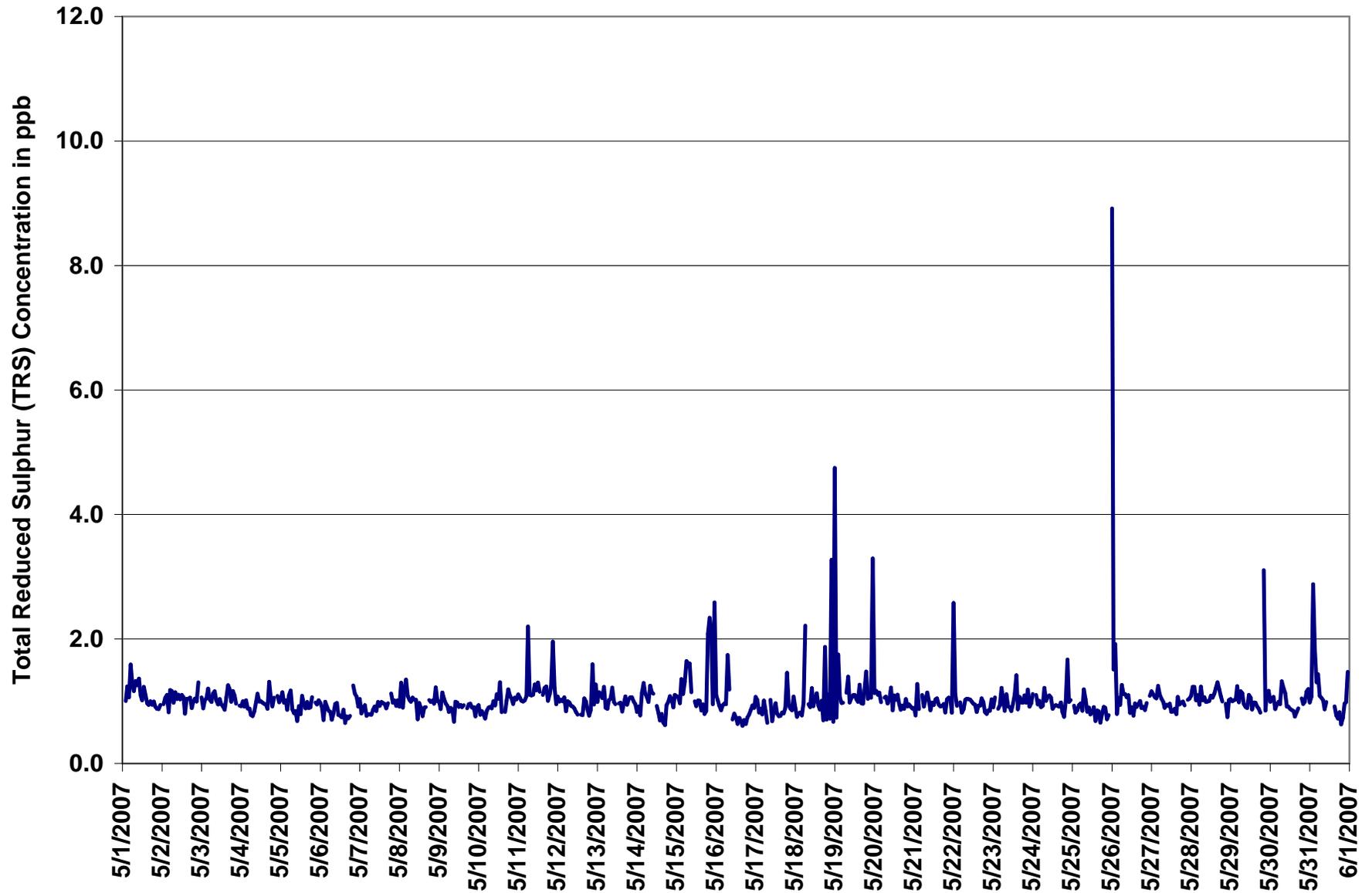
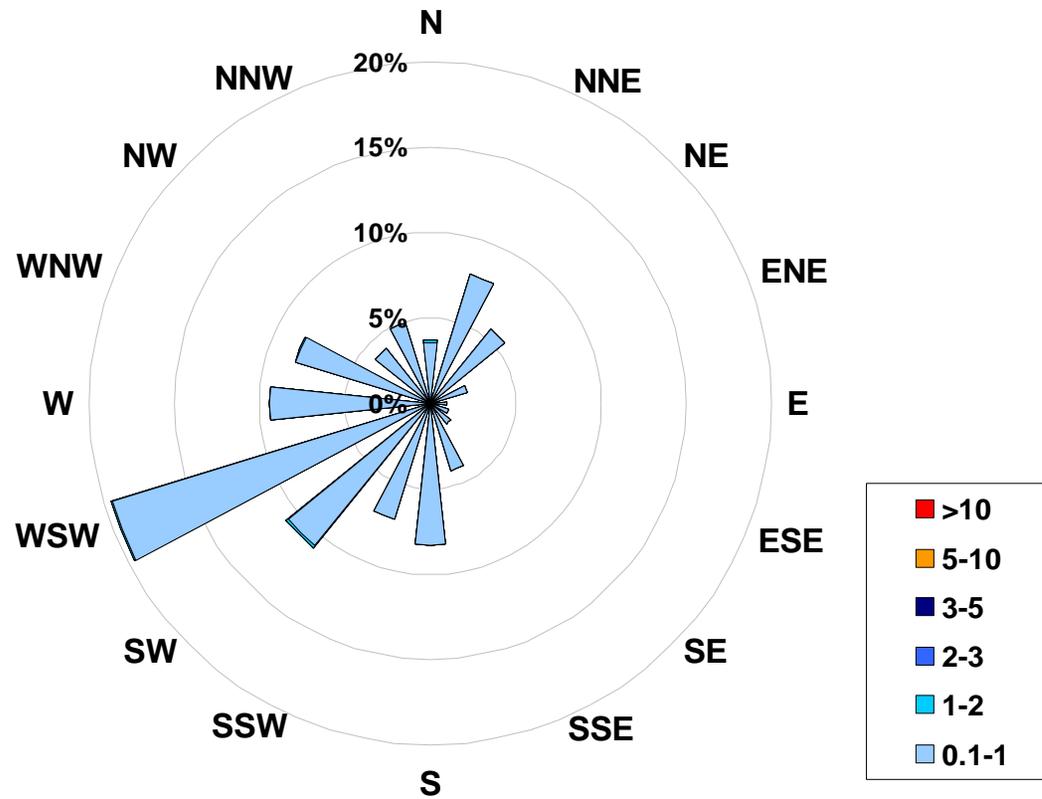


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)  
Located at the Smoky Heights Site for May 2007**



**Calms: 0%**

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	704
1	to	2	4
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			708

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

Station: Smoky Heights  
 Station Owner: PASZA

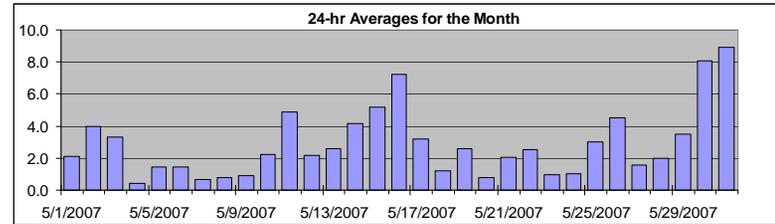
### HOURLY AVERAGE TABLE

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

Monitoring Dates: May 1, 2007 to June 1, 2007

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:	42.5 µg/m <sup>3</sup> 30-May 19:00 20:00
Maximum 24-hr Value:	8.9 µg/m <sup>3</sup> 31-May



AIC Time:	0 hrs	Operational Time:	744 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%
Percentile	99	95	75
	13.9	7.5	4.0
			2.2
			0.9
			0.0
			0.0
Average / Median		Geomean	
2.9		2 µg/m <sup>3</sup>	
2.2		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	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-May-07	3	3	1	1	2	2	3	2	0	1	1	0	1	1	2	2	2	2	3	4	3	3	4	5	2.1	5.1
2-May-07	5	5	4	5	5	5	5	5	4	4	4	3	2	3	4	5	4	3	3	3	6	5	4	3	4.0	6.1
3-May-07	4	3	3	4	4	3	3	3	4	7	5	3	4	1	2	1	2	5	4	4	4	2	0	3.3	7.0	
4-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	1	1	0	0	0	1	0	0.4	2.4
5-May-07	0	0	0	0	1	0	0	2	1	2	1	0	0	2	1	2	2	2	3	2	3	2	3	3	1.4	3.5
6-May-07	3	3	2	2	2	3	1	2	1	1	1	1	0	1	0	1	3	1	1	2	2	2	0	0	1.5	3.3
7-May-07	1	1	2	2	1	1	2	1	1	0	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0.7	1.7
8-May-07	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0	2	4	3	2	2	0.8	4.1
9-May-07	3	3	2	2	1	2	2	1	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.9	3.1
10-May-07	1	1	1	1	1	1	3	1	2	1	2	1	1	1	2	3	4	3	4	4	4	4	5	4	2.3	4.6
11-May-07	5	6	5	5	4	5	6	4	3	4	5	6	5	4	6	5	5	4	4	4	4	6	4	6	4.9	6.4
12-May-07	4	5	3	5	3	3	3	3	2	0	0	0	0	1	1	1	2	1	1	1	2	3	3	3	2.2	5.5
13-May-07	2	2	2	2	3	3	5	3	1	1	0	1	1	2	2	3	3	2	3	3	3	5	6	4	2.6	5.5
14-May-07	3	3	4	5	4	5	5	4	5	5	2	2	2	3	3	3	3	4	5	6	5	8	7	5	4.2	8.2
15-May-07	5	5	4	5	6	8	9	6	6	4	4	3	4	4	4	5	5	4	5	5	7	5	5	6	5.2	9.4
16-May-07	8	8	9	9	9	9	11	10	9	6	4	4	4	5	5	8	7	5	8	7	7	10	7	5	7.2	10.9
17-May-07	5	4	2	1	4	2	3	4	3	2	2	3	5	8	3	3	1	3	5	3	2	2	2	2	3.2	8.3
18-May-07	2	1	1	1	1	1	1	0	0	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1.2	2.3
19-May-07	2	1	0	0	1	1	1	2	2	3	2	2	3	3	2	19	3	1	3	2	6	3	0	0	2.6	18.9
20-May-07	1	1	1	1	1	1	2	1	0	0	0	1	1	1	0	0	1	0	1	0	2	1	1	1	0.8	1.9
21-May-07	2	2	2	2	2	3	2	3	3	2	0	0	2	1	1	1	2	2	3	3	4	4	1	2	2.0	4.4
22-May-07	3	3	2	2	2	5	4	4	4	3	3	6	3	2	2	0	0	6	5	1	0	1	1	1	2.5	5.6
23-May-07	1	1	0	0	0	1	2	1	1	3	2	2	1	1	1	1	0	1	0	1	2	0	1	1	0.9	2.7
24-May-07	0	0	1	0	0	2	1	4	5	0	0	0	1	0	0	0	0	0	1	1	2	1	2	2	1.0	5.4
25-May-07	2	2	2	2	2	3	3	2	2	3	4	1	0	2	2	4	4	4	4	4	3	7	5	6	3.0	6.7
26-May-07	6	6	4	5	6	9	9	8	9	4	1	4	3	3	5	4	4	1	2	2	3	4	4	2	4.5	9.2
27-May-07	3	3	3	3	1	2	2	0	0	0	0	0	0	1	1	2	0	2	4	4	2	2	1	0	1.6	4.3
28-May-07	0	0	0	0	0	1	1	2	2	2	3	3	3	4	2	3	3	3	3	3	4	3	1	2	2.0	4.4
29-May-07	3	1	2	2	2	5	11	7	7	7	4	2	0	1	1	1	2	3	5	4	2	4	6	4	3.5	10.5
30-May-07	4	5	4	4	4	6	9	11	10	10	6	0	0	2	3	1	5	3	7	42	25	15	9	7	8.1	42.5
31-May-07	3	4	4	6	7	22	10	7	5	4	4	1	4	3	5	7	5	8	10	17	28	12	33	4	8.9	32.7
Hourly Avg	2.7	2.7	2.4	2.5	2.5	3.6	3.8	3.4	3.0	2.6	2.0	1.7	1.7	1.8	2.2	2.9	2.5	2.4	3.1	4.5	4.7	3.9	3.9	2.6		
Hourly Max	7.8	8.3	8.9	9.1	8.6	22.1	10.9	10.8	10.5	9.6	5.7	6.4	5.2	5.1	8.3	18.9	6.7	8.2	9.7	42.5	27.8	15.1	32.7	7.4		

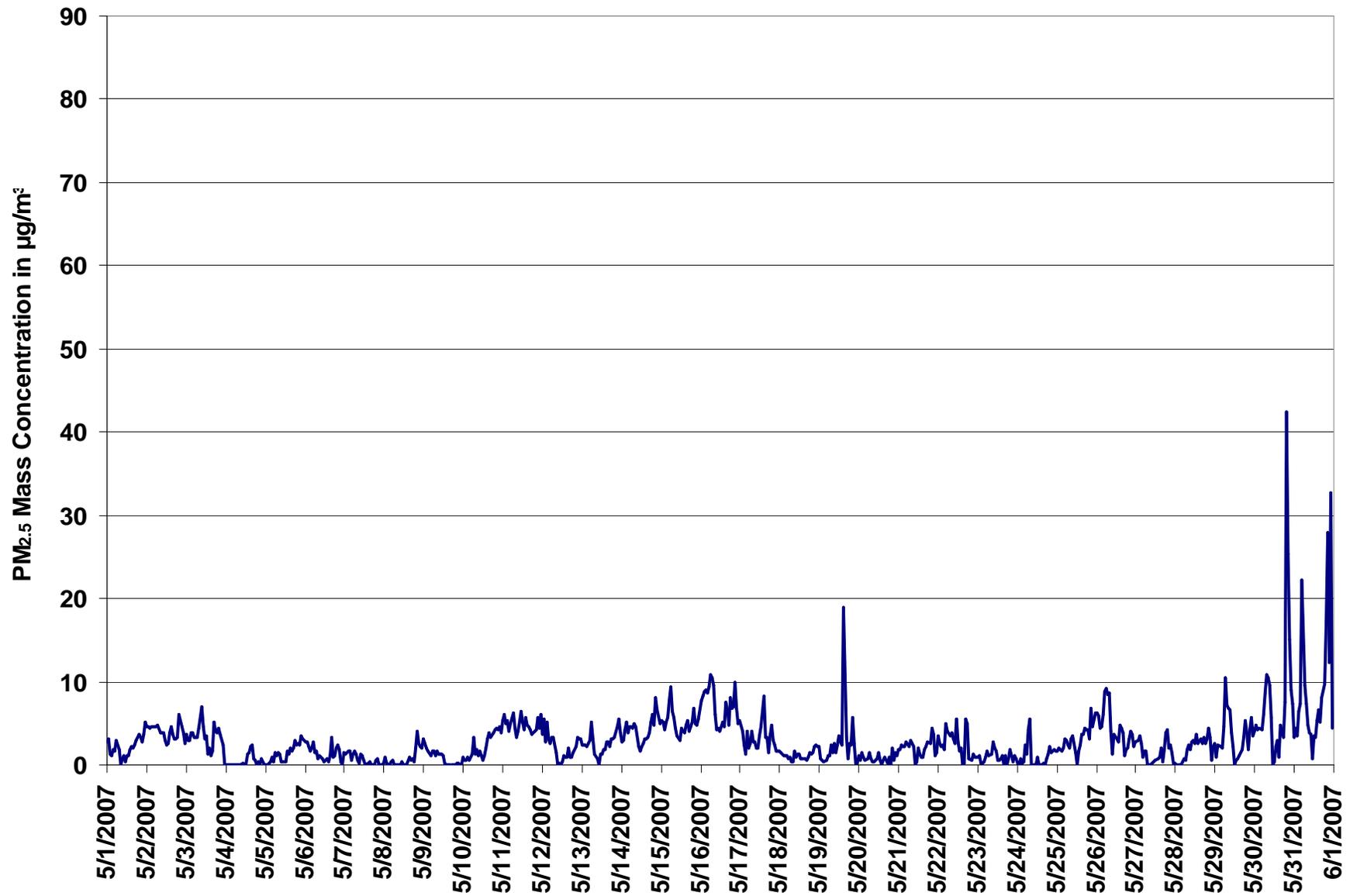


Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights  
 Station Owner: PASZA

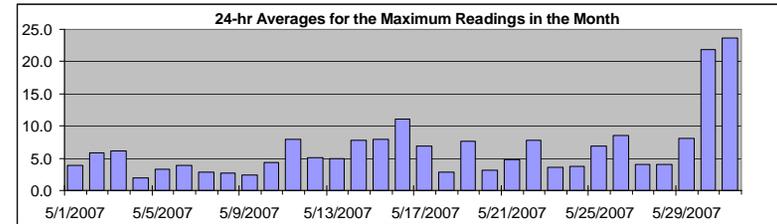
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

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

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Average:	122.8	µg/m <sup>3</sup>	30-May	20:00 21:00
Maximum 24-hr Value:	23.6	µg/m <sup>3</sup>	31-May	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	39.1	14.3	7.0	4.7	3.0	1.5	0.8	6.4	5 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**

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-07	5	5	3	4	3	5	5	3	2	3	3	3	3	2	5	4	4	4	4	5	5	5	5	6	3.9	6.2
2-May-07	6	6	6	6	6	6	6	6	6	6	5	5	4	5	6	7	6	5	6	6	8	7	7	4	5.9	7.9
3-May-07	5	4	5	5	5	5	5	5	6	20	18	6	6	4	4	3	5	6	5	5	7	5	4	1	6.1	19.6
4-May-07	3	2	0	1	1	1	0	3	1	1	3	1	2	3	3	4	5	3	2	1	2	1	3	1	1.9	5.0
5-May-07	1	1	2	1	2	2	3	3	3	3	3	3	4	4	5	5	4	5	4	4	4	4	5	5	3.3	5.5
6-May-07	4	4	4	3	4	5	3	4	3	4	3	4	3	3	3	4	10	3	4	4	5	4	3	2	3.9	10.2
7-May-07	4	5	3	4	2	4	4	3	4	2	3	4	2	2	3	3	2	2	3	3	3	2	2	2	2.8	4.6
8-May-07	2	4	2	3	2	2	3	1	2	1	3	3	2	2	2	3	2	2	2	4	6	4	3	5	2.7	6.3
9-May-07	5	4	3	4	2	3	3	2	3	2	3	3	3	2	1	3	2	1	1	2	2	1	1	1	2.3	4.7
10-May-07	2	2	2	2	2	3	5	4	4	3	3	3	4	4	4	5	6	5	6	6	8	6	9	6	4.3	8.7
11-May-07	9	9	7	7	6	6	8	9	7	7	7	8	8	7	8	7	7	6	6	8	8	12	12	11	7.9	12.4
12-May-07	9	16	6	7	5	4	7	5	4	3	3	2	2	3	5	4	6	4	4	4	5	5	4	4	5.0	15.8
13-May-07	3	3	4	3	4	5	10	5	3	2	2	3	5	4	5	7	5	5	6	5	5	7	10	6	4.9	10.4
14-May-07	6	7	8	8	5	8	8	7	8	7	5	5	5	7	6	5	6	6	12	11	8	17	12	7	7.7	16.6
15-May-07	7	7	6	7	7	10	12	9	8	8	7	6	8	8	6	8	9	9	9	9	10	8	7	8	8.0	11.6
16-May-07	10	10	11	11	10	11	13	15	14	10	8	8	6	10	7	12	14	8	20	11	11	18	9	7	11.1	20.3
17-May-07	8	5	4	5	7	4	6	6	5	6	4	9	9	10	29	7	6	5	6	10	4	4	4	4	6.9	29.5
18-May-07	3	3	2	2	2	2	2	3	3	4	2	3	4	2	3	2	2	3	3	3	3	4	4	3	2.9	4.3
19-May-07	3	2	1	1	3	2	2	4	4	6	4	7	6	6	6	68	23	4	5	5	8	8	3	2	7.7	68.5
20-May-07	2	2	2	3	3	2	3	2	2	2	3	5	4	6	3	3	5	2	5	4	5	3	4	2	3.2	5.7
21-May-07	4	3	4	3	3	5	4	5	4	4	2	5	9	5	4	5	7	6	5	6	6	7	4	7	4.8	9.0
22-May-07	6	5	4	5	3	9	8	5	6	6	6	9	8	4	5	3	3	39	38	3	2	3	2	3	7.7	39.5
23-May-07	3	3	3	2	1	3	3	3	4	6	4	5	5	7	4	6	3	3	3	4	5	2	4	2	3.5	7.1
24-May-07	2	1	3	3	2	4	3	6	12	1	1	6	4	3	4	3	4	3	3	4	8	5	4	3	3.8	12.4
25-May-07	4	4	4	3	4	5	5	4	6	6	6	5	4	7	9	14	9	13	10	10	6	10	8	9	6.9	13.9
26-May-07	18	13	8	6	9	12	12	11	12	11	8	7	6	6	9	9	9	5	4	5	6	8	7	4	8.6	18.3
27-May-07	4	5	5	4	3	3	3	1	2	3	3	4	3	5	5	5	4	6	10	7	5	4	4	1	4.1	9.7
28-May-07	2	1	1	1	2	2	3	3	3	4	5	6	4	5	6	5	4	5	5	5	7	6	4	7	4.0	6.9
29-May-07	6	5	5	5	4	6	15	14	9	10	9	9	6	7	6	7	11	10	12	10	5	7	12	6	8.2	15.0
30-May-07	6	6	6	5	6	9	13	15	15	15	11	8	8	10	15	13	18	19	35	110	123	19	17	21	21.8	122.8
31-May-07	6	9	9	10	13	59	15	12	12	10	12	9	13	8	14	16	17	22	22	48	85	24	104	17	23.6	103.8
Hourly Avg	5.1	5.0	4.4	4.3	4.3	6.7	6.2	5.8	5.7	5.6	5.1	5.2	5.2	5.2	6.2	8.1	7.0	7.0	8.3	10.3	12.1	7.1	9.0	5.4		
Hourly Max	18.3	15.8	10.7	10.8	12.8	58.8	15.5	15.5	15.1	19.6	18.4	9.3	13.0	10.4	29.5	68.5	23.4	39.5	38.5	110.5	122.8	24.3	103.8	21.2		

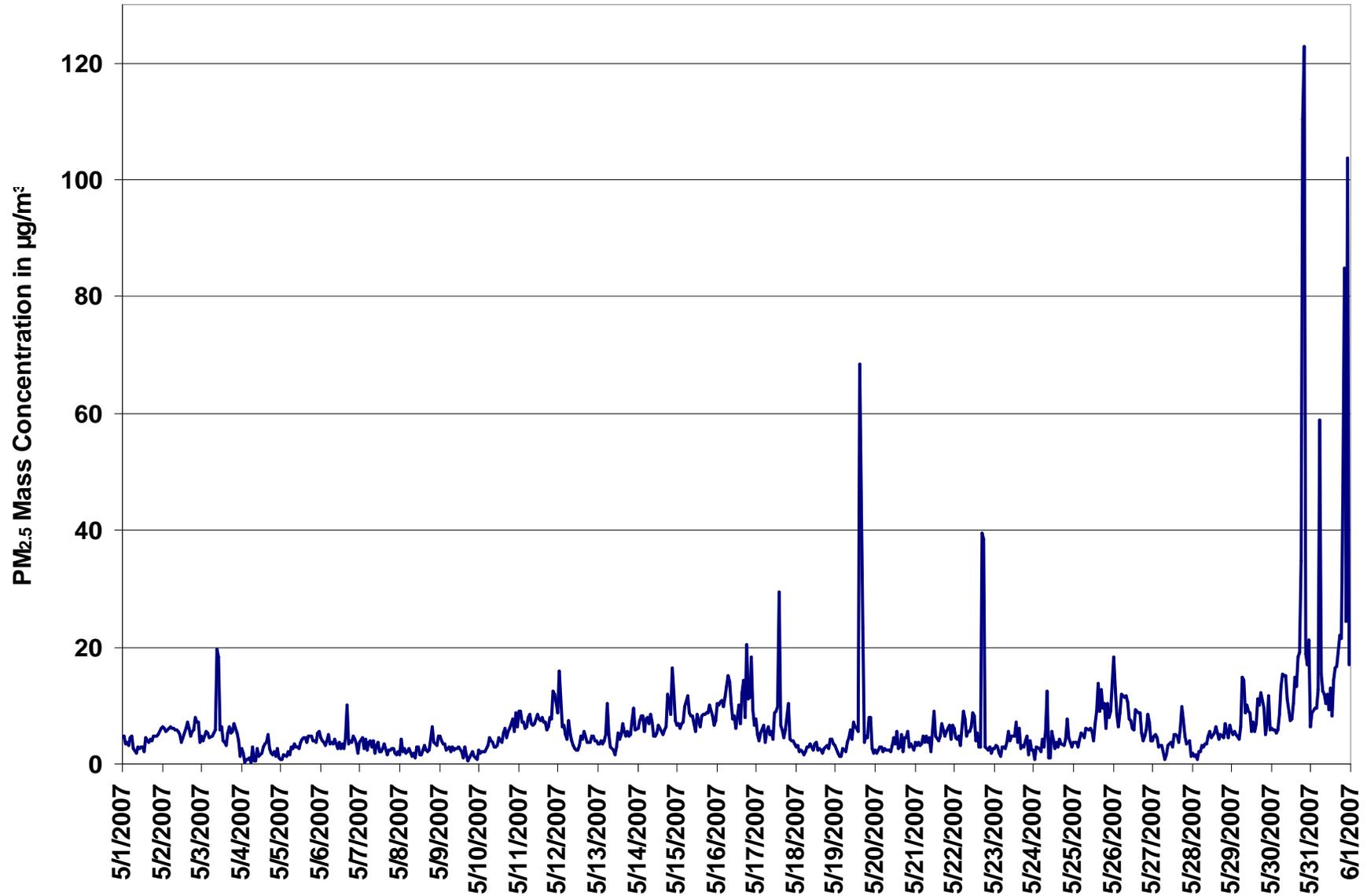
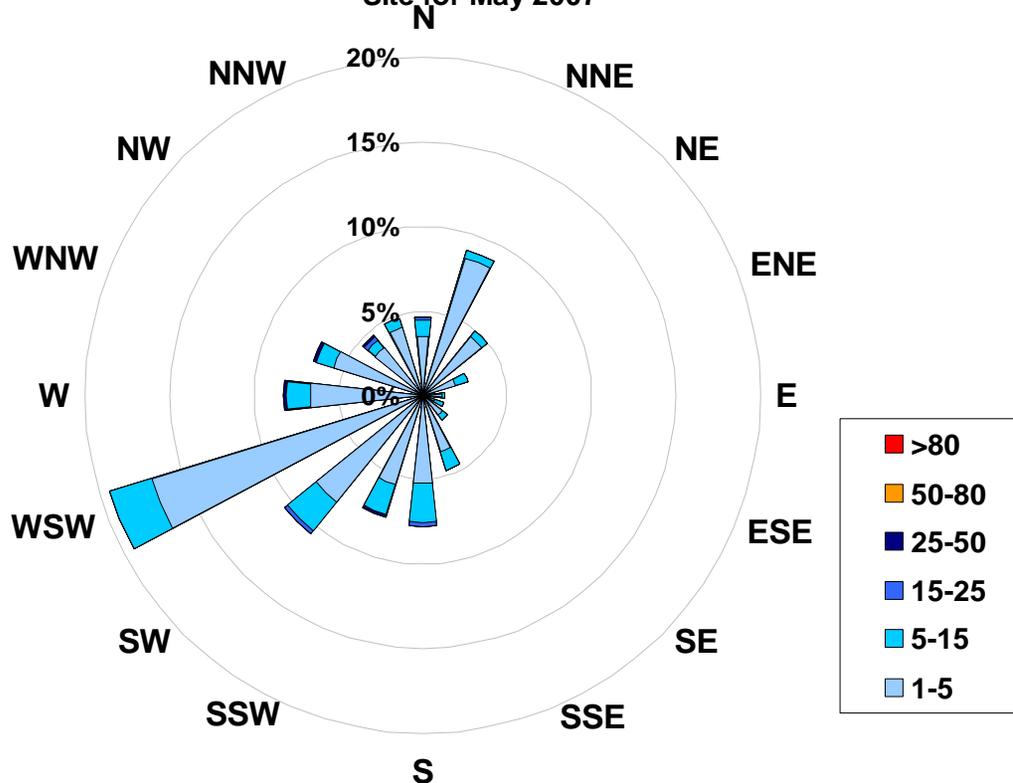


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

**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 May 2007**



**Calms: 0%**

Frequency Distribution of PM <sub>2.5</sub> in µg/m <sup>3</sup>			Frequency (hrs)
Range			
1.0	<	5	640
5	to	15	96
15	to	25	4
25	to	50	4
50	to	80	0
	>	80	0
Total Non-Zero Values			744

# PASZA - Smoky Heights - Temperature Monthly Summary

Station: Smoky Heights  
 Station Owner: PASZA

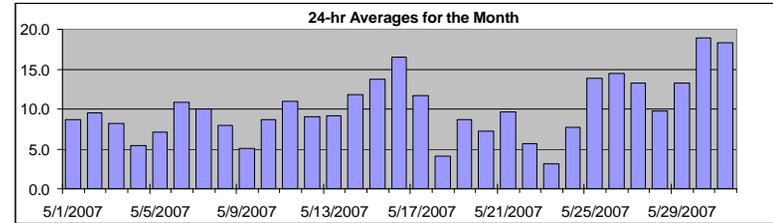
## HOURLY AVERAGE TABLE

## Ambient Temperature (T)

Monitoring Dates: May 1, 2007 to June 1, 2007

### Summary

Maximum 1-hr Average:	26.9	°C	30-May	16:00 17:00
Maximum 24-hr Value:	19.0	°C	30-May	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	24.7	20.8	13.6	9.3	5.9	2.3	-0.6	10.1 °C	9.3 °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-May-07	2	3	3	2	1	1	3	6	8	9	10	12	13	13	13	14	15	14	13	12	11	11	10	9	8.7	14.7
2-May-07	9	8	7	7	6	6	6	8	8	10	12	14	14	14	13	11	11	11	10	10	9	8	8	8	9.6	14.1
3-May-07	8	8	8	8	7	7	7	8	8	8	9	9	9	10	10	10	9	9	9	8	7	7	7	6	8.2	10.0
4-May-07	6	5	5	4	4	4	4	5	6	6	7	7	6	6	6	6	6	6	6	5	5	5	5	5	5.4	6.8
5-May-07	4	4	4	4	4	4	4	4	4	5	7	8	9	10	11	11	12	11	11	10	9	8	7	7	7.1	11.5
6-May-07	7	6	5	3	4	5	7	8	11	12	13	14	15	15	15	15	15	15	15	13	12	11	10	10	10.8	15.4
7-May-07	10	9	7	6	6	6	7	8	9	10	10	11	12	14	13	14	14	13	12	12	11	10	10	9	10.0	13.9
8-May-07	9	8	8	8	7	7	7	8	8	9	10	10	10	10	10	8	8	7	7	6	6	6	6	6	7.9	10.4
9-May-07	5	5	5	5	4	4	4	3	3	4	4	5	5	6	6	7	8	8	8	8	7	4	3	2	5.1	8.2
10-May-07	2	3	3	3	3	2	4	5	7	9	11	12	13	13	14	14	14	14	14	14	12	9	8	6	8.7	14.4
11-May-07	5	4	4	5	5	5	7	10	11	13	15	16	16	17	16	17	17	17	16	14	12	9	7	6	10.9	17.2
12-May-07	9	9	8	7	6	5	5	6	7	9	10	11	11	12	13	13	13	13	13	12	10	7	6	5	9.1	13.0
13-May-07	4	3	2	2	1	2	4	6	9	11	12	13	14	14	15	16	16	15	15	14	12	8	7	7	9.2	16.2
14-May-07	7	7	6	7	7	6	6	8	11	13	15	15	15	16	17	17	17	17	17	17	13	10	9	10	11.8	17.3
15-May-07	8	8	6	6	5	4	7	10	12	15	16	17	18	19	19	20	20	20	20	19	16	16	15	14	13.8	20.2
16-May-07	14	13	12	11	10	10	10	12	16	19	21	21	21	20	21	21	21	21	21	20	19	17	16	15	16.5	21.1
17-May-07	13	12	12	11	9	9	10	10	11	12	13	14	14	15	16	15	15	14	13	12	10	9	7	6	11.7	15.5
18-May-07	5	4	3	2	2	2	2	0	1	2	3	5	6	6	6	6	5	5	5	5	6	6	6	6	4.1	6.1
19-May-07	5	5	5	5	5	5	5	6	7	8	9	10	13	13	13	12	12	14	13	12	10	8	6	6	8.6	13.7
20-May-07	6	6	5	5	4	5	6	6	7	7	8	7	7	8	9	10	9	10	10	11	9	7	7	6	7.2	11.1
21-May-07	6	5	6	5	5	6	6	6	7	8	11	11	12	12	13	14	13	14	14	13	11	10	10	11	9.6	14.0
22-May-07	7	5	4	3	2	3	5	6	9	11	13	12	6	5	5	5	7	7	7	6	5	2	1	0	5.6	13.2
23-May-07	-1	0	1	1	-1	0	1	3	3	2	2	3	5	4	5	5	7	6	8	8	6	3	2	1	3.2	8.0
24-May-07	0	-1	-1	-2	-2	-2	-2	0	3	7	9	10	11	13	14	15	16	17	17	16	15	12	11	10	7.7	16.6
25-May-07	7	7	6	5	4	4	7	9	12	15	17	18	20	20	21	22	21	22	21	20	18	14	13	11	13.8	21.5
26-May-07	9	8	8	8	7	7	10	11	14	17	20	21	22	21	21	19	18	19	19	18	15	13	10	10	14.4	21.6
27-May-07	8	8	8	9	10	11	11	11	13	14	16	16	17	17	18	16	17	17	16	15	14	12	12	11	13.3	17.6
28-May-07	11	10	9	8	8	8	9	10	9	9	10	10	10	10	11	11	11	12	11	12	12	10	7	6	9.8	11.9
29-May-07	5	4	3	3	3	4	6	8	11	13	15	17	19	20	20	21	21	22	21	21	18	16	13	13	13.2	21.6
30-May-07	14	12	12	11	10	9	11	13	16	18	20	23	24	25	26	27	27	27	26	25	23	21	19	17	19.0	26.9
31-May-07	18	16	15	11	9	10	11	14	16	19	20	22	22	23	24	24	25	25	24	23	20	17	16	16	18.3	24.8
Hourly Avg	7.2	6.6	6.1	5.6	5.0	5.1	6.0	7.4	8.9	10.4	11.8	12.7	13.2	13.7	14.0	14.1	14.2	14.2	13.9	13.3	11.7	9.8	8.8	8.2		
Hourly Max	18.2	15.9	14.8	11.3	10.3	10.8	11.0	14.2	16.4	19.4	20.5	22.5	24.3	25.0	25.8	26.5	26.9	26.7	25.6	25.5	22.7	20.9	19.0	16.7		

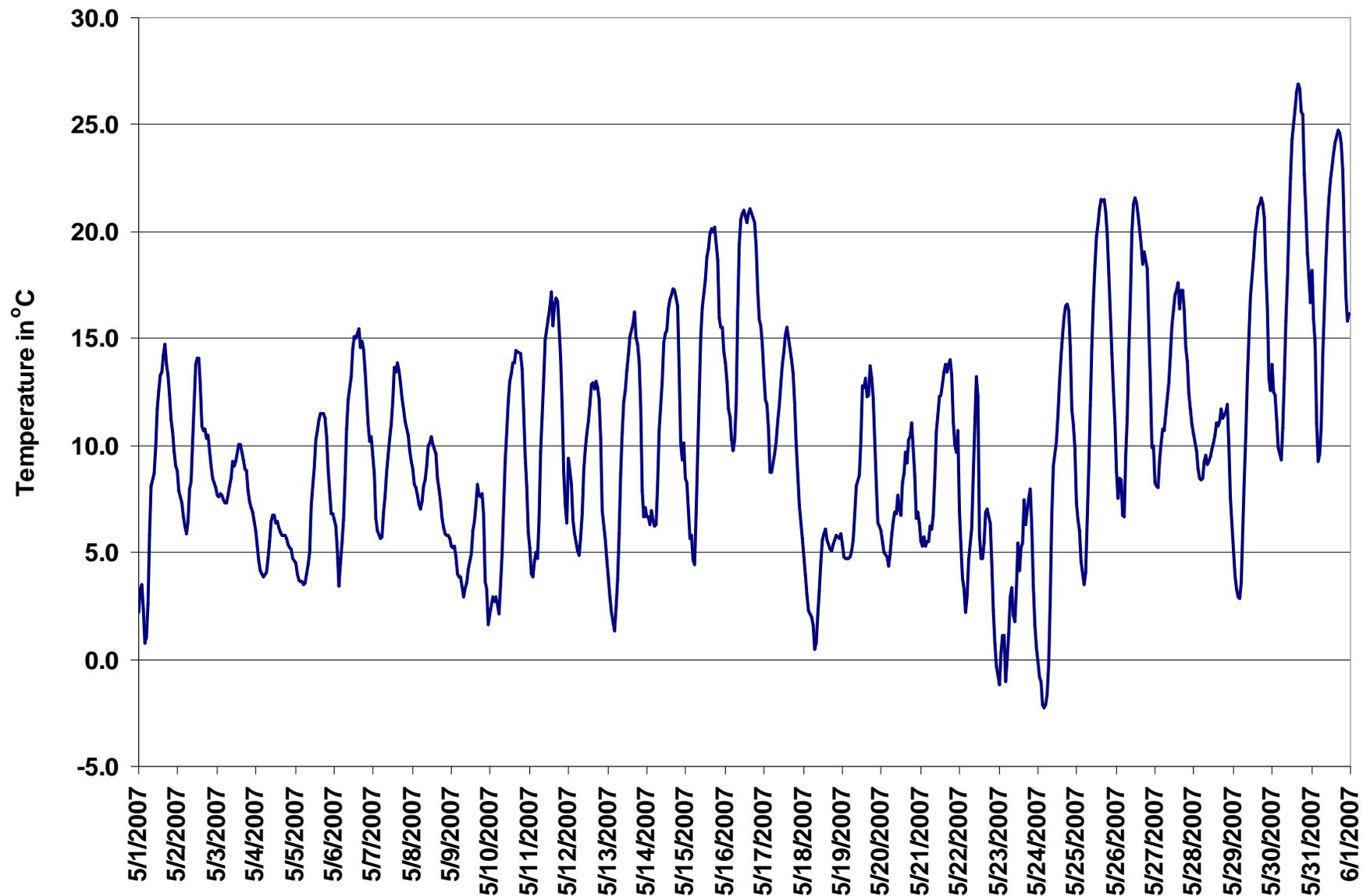


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend

# PASZA - Smoky Heights - Scalar Wind Speed Monthly Summary

Station: Smoky Heights  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

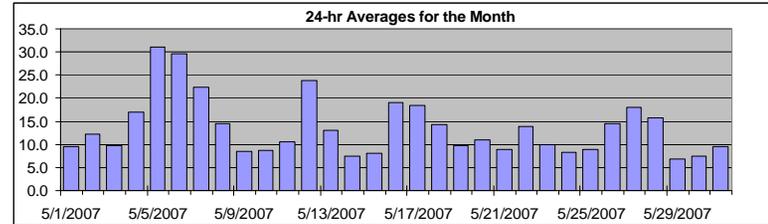
## Wind Speed (WSs)

Monitoring Dates: May 1, 2007 to June 1, 2007

### Summary

Maximum 1-hr Average:	50.9	km/hr	6-May	12:00 13:00
Maximum 24-hr Value:	31.0	km/hr	5-May	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	42.1	30.5	17.1	11.3	7.8	4.5	3.0	13.6 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-May-07	6	9	6	4	5	4	5	8	12	13	12	16	13	11	9	10	10	9	13	12	10	10	12	11	9.6	15.8	
2-May-07	9	10	10	10	11	13	13	14	19	19	18	19	18	17	16	16	12	11	8	9	5	5	8	6	12.3	19.5	
3-May-07	8	11	12	11	9	10	8	9	7	7	9	10	9	12	11	10	11	11	10	10	9	9	11	12	9.8	12.3	
4-May-07	11	9	10	11	12	13	15	13	11	14	19	15	19	20	23	20	14	20	19	24	24	24	23	25	17.1	24.5	
5-May-07	24	28	24	24	26	26	27	33	37	39	41	42	42	45	44	41	38	37	29	25	15	20	16	19	31.0	45.4	
6-May-07	22	19	15	15	14	16	17	17	29	29	37	39	51	46	46	46	40	39	46	34	31	21	21	24	29.6	50.9	
7-May-07	24	21	12	12	13	14	17	14	18	24	28	31	27	34	28	30	33	31	23	17	21	23	22	20	22.4	34.1	
8-May-07	16	15	17	14	11	11	14	12	14	15	18	19	22	22	22	18	15	11	10	9	8	8	10	17	14.6	22.2	
9-May-07	12	13	10	11	10	11	8	8	8	8	9	12	13	14	11	10	9	7	3	3	3	4	6	3	8.6	13.7	
10-May-07	4	4	5	7	6	8	9	10	9	12	9	7	10	11	13	15	14	13	13	10	5	6	6	4	8.7	15.0	
11-May-07	6	3	4	3	4	3	4	5	8	14	12	8	11	13	27	15	21	23	26	21	8	4	5	5	10.5	26.6	
12-May-07	7	8	22	25	25	17	8	16	24	33	36	39	39	35	38	36	26	26	26	22	17	13	15	16	23.7	39.3	
13-May-07	15	16	16	15	12	8	9	10	12	13	18	20	16	19	21	12	13	15	13	11	7	5	6	6	13.0	20.7	
14-May-07	3	3	8	9	5	5	4	4	7	6	8	11	12	13	17	14	13	12	6	3	3	4	6	7	7.6	16.6	
15-May-07	10	9	8	11	7	7	6	11	6	4	6	9	10	8	8	7	9	8	6	8	8	10	12	11	8.2	11.6	
16-May-07	10	10	6	6	6	8	10	15	22	29	29	30	30	26	19	15	22	19	25	25	19	17	29	29	19.1	30.5	
17-May-07	19	20	24	20	17	19	28	32	25	20	16	14	14	13	14	15	14	15	14	17	20	16	18	21	18.5	31.5	
18-May-07	20	17	17	17	17	17	14	14	15	16	13	14	14	16	17	14	14	14	10	9	11	10	9	10	14.3	20.4	
19-May-07	9	11	11	11	10	8	9	5	6	6	8	6	7	10	10	10	10	8	11	10	14	20	15	9	9.8	19.9	
20-May-07	9	16	16	18	19	17	12	10	10	10	6	9	12	13	13	10	8	6	6	5	4	10	11	9	10.9	18.7	
21-May-07	8	7	7	8	6	3	3	5	5	7	9	10	11	12	9	6	6	9	9	10	14	20	18	11	8.9	19.6	
22-May-07	8	5	4	7	5	8	10	10	12	14	18	34	36	27	24	20	15	14	16	14	13	10	5	3	13.9	35.7	
23-May-07	5	5	7	11	9	13	19	21	19	17	16	12	8	10	9	10	5	12	5	5	6	4	5	5	9.9	20.9	
24-May-07	5	4	5	6	6	3	1	5	5	6	10	14	13	12	13	14	13	12	13	9	5	6	10	10	8.4	14.5	
25-May-07	5	6	6	7	6	7	9	10	11	8	9	11	12	10	9	8	11	10	14	13	11	7	10	6	8.9	13.9	
26-May-07	4	6	7	8	10	9	9	8	9	16	22	21	24	27	22	22	18	24	24	17	13	9	8	11	14.5	26.8	
27-May-07	10	12	13	13	15	22	17	20	31	27	27	25	25	24	26	14	16	19	13	16	12	12	13	12	18.1	30.9	
28-May-07	13	18	13	17	15	16	19	24	22	19	20	19	18	18	19	20	18	19	18	13	5	6	6	6	15.8	23.6	
29-May-07	5	5	7	6	5	4	6	8	10	11	12	10	7	7	7	7	7	5	7	8	5	6	3	5	6.9	11.9	
30-May-07	7	4	6	7	8	8	9	6	7	8	9	8	7	9	8	7	6	5	5	5	14	10	5	9	7.4	13.6	
31-May-07	12	10	7	7	5	6	5	7	8	7	7	13	15	17	13	14	10	11	10	8	7	9	12	10	9.6	17.1	
1-hr Average	10.5	10.9	10.8	11.3	10.7	10.9	11.0	12.4	14.1	15.3	16.5	17.6	18.3	18.5	18.1	16.4	15.2	15.4	14.5	13.0	11.3	10.8	11.4	11.3			
Hourly Max	24.5	28.2	24.4	25.2	26.1	26.2	27.5	33.0	36.8	38.7	41.0	42.1	50.9	46.0	46.2	45.9	39.7	39.3	45.8	33.9	30.9	23.8	28.7	29.1			

PASZA - Smoky Heights - Vector Wind Speed Monthly Summary

Station: Smoky Heights  
 Station Owner: PASZA

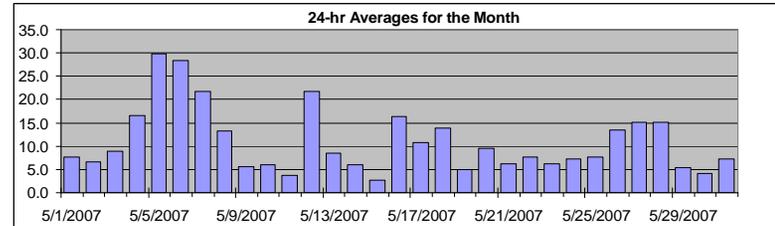
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: May 1, 2007 to June 1, 2007

Summary

Maximum 1-hr Average:	50.6	km/hr	6-May	12:00 13:00
Maximum 24-hr Value:	29.9	km/hr	5-May	



Calm Time:	1 hrs	0% calms	Operational Time:	743 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	41.9	30.0	16.7	10.9	7.1	3.4	1.7	51.6 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

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hr Vector Average	Daily Max
1-May-07	6	9	5	4	2	3	4	8	12	13	11	15	13	11	8	7	8	8	12	10	10	12	11	7.6	15.4	
2-May-07	9	10	10	10	11	13	13	14	19	19	17	18	16	15	13	11	10	6	8	5	3	8	5	6.7	19.1	
3-May-07	8	11	12	11	9	10	8	9	7	7	9	10	8	12	10	10	11	11	10	10	9	9	11	12	8.9	11.9
4-May-07	10	9	10	11	12	13	15	13	11	14	19	15	19	20	23	20	14	20	19	24	24	24	23	24	16.6	24.4
5-May-07	24	28	24	24	26	26	27	33	37	38	41	42	42	45	43	40	38	37	29	25	15	19	16	18	29.9	45.0
6-May-07	22	19	15	14	14	16	16	17	28	29	37	38	51	46	46	46	39	39	46	34	31	21	21	24	28.3	50.6
7-May-07	24	21	11	12	13	14	17	14	18	23	28	30	27	33	27	29	32	30	23	17	21	23	22	20	21.8	33.4
8-May-07	16	15	17	14	11	11	13	12	14	15	17	18	22	21	21	18	15	11	10	9	7	8	10	17	13.2	21.8
9-May-07	12	12	10	11	10	11	8	8	8	8	8	11	13	13	11	9	9	6	2	2	3	3	6	2	5.6	13.5
10-May-07	3	4	4	5	5	7	9	10	9	12	7	6	9	9	12	15	13	13	12	10	4	6	5	4	6.1	14.6
11-May-07	4	3	3	3	3	2	3	5	8	14	11	5	10	12	26	14	21	23	26	21	8	3	5	5	3.7	26.2
12-May-07	7	5	22	25	25	16	6	16	23	33	36	39	38	35	38	36	24	25	26	22	17	13	15	16	21.8	38.7
13-May-07	15	16	16	15	12	8	9	10	12	13	17	19	15	18	20	8	13	14	13	11	7	5	6	6	8.5	19.7
14-May-07	2	3	8	9	5	3	3	4	6	6	7	8	10	11	16	14	12	11	5	calm	3	2	4	7	6.0	15.9
15-May-07	10	8	8	11	7	7	6	10	6	2	4	8	8	6	5	4	7	7	5	8	7	9	11	10	2.7	11.5
16-May-07	9	10	4	5	6	8	10	15	22	28	29	30	29	26	18	15	21	19	24	25	19	16	29	29	16.4	30.0
17-May-07	19	20	24	19	17	19	27	31	25	20	16	12	12	10	13	14	14	15	13	16	19	16	18	21	10.8	31.4
18-May-07	20	17	17	17	17	17	14	14	15	16	13	14	14	16	17	14	14	14	10	9	11	10	8	10	13.8	20.3
19-May-07	9	11	11	11	10	8	9	5	6	4	7	4	6	10	10	10	8	11	9	13	14	13	7	4.9	13.6	
20-May-07	9	16	16	18	18	17	12	10	10	9	3	5	12	13	12	8	7	5	5	4	4	10	10	9	9.6	18.4
21-May-07	8	7	6	8	6	2	2	4	5	6	8	9	10	10	8	4	6	8	8	10	14	19	16	10	6.1	18.9
22-May-07	6	3	2	6	5	8	10	10	11	14	15	34	35	26	24	20	14	14	16	14	13	10	4	1	7.6	34.8
23-May-07	4	4	6	10	8	13	19	21	19	17	16	10	5	7	3	4	1	11	4	4	5	3	5	5	6.2	20.7
24-May-07	5	3	5	6	6	3	1	4	5	6	9	14	12	11	12	13	12	12	13	9	5	5	10	10	7.1	13.9
25-May-07	5	6	6	7	6	7	9	10	10	7	9	10	10	8	5	7	10	8	14	13	11	6	9	5	7.6	13.6
26-May-07	2	5	7	8	10	9	8	8	8	16	21	21	23	26	22	21	17	24	24	17	13	9	7	11	13.4	26.0
27-May-07	10	11	13	12	15	21	17	20	31	27	26	24	24	24	21	14	16	19	13	16	11	12	13	12	15.1	30.7
28-May-07	13	18	13	16	14	16	19	23	22	19	20	19	18	18	18	19	18	19	18	12	3	6	6	6	15.1	23.4
29-May-07	4	5	7	6	5	4	5	8	10	11	11	9	6	5	5	6	7	4	6	8	5	6	2	3	5.3	11.4
30-May-07	5	4	6	7	8	8	9	6	6	8	8	8	6	9	7	6	5	4	2	5	13	10	1	7	4.1	12.5
31-May-07	12	9	6	6	4	5	4	7	8	6	4	8	14	16	11	13	9	10	10	8	7	8	11	10	7.3	16.1
1-hr Vector	5.5	6.1	5.8	7.1	6.4	6.1	5.9	6.6	8.0	8.7	9.9	10.2	10.7	10.4	10.5	9.0	8.1	7.7	7.5	5.3	4.6	5.1	6.6	6.2		
Hourly Max	24.4	28.1	24.3	25.0	26.1	26.1	27.2	32.8	36.5	38.5	40.9	42.0	50.6	45.7	46.0	45.6	39.5	39.1	45.7	33.7	30.9	23.7	28.5	28.9		

## PASZA - Smoky Heights - Wind Direction Monthly Summary

Station: Smoky Heights  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**


Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	351.9	334.7	267.9	234.3	170.3	25.0	8.0	260 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-May-07	232	260	227	287	346	22	26	29	34	28	29	31	31	26	13	32	25	30	62	27	11	10	21	32	22	NNE
2-May-07	31	28	35	28	28	28	33	37	33	51	42	48	63	77	99	171	249	276	285	137	217	223	291	357	43	NE
3-May-07	27	24	36	37	42	27	24	20	29	6	18	14	12	344	351	334	338	338	327	349	335	340	322	345	2	N
4-May-07	333	358	330	296	288	276	275	282	294	286	286	310	298	296	299	301	304	303	295	296	302	299	305	303	299	WNW
5-May-07	298	289	286	279	273	266	260	253	258	259	255	255	251	242	237	237	246	251	249	245	244	239	248	240	255	WSW
6-May-07	229	232	226	202	192	228	205	195	220	223	240	239	249	252	253	250	258	252	253	243	241	249	260	274	241	WSW
7-May-07	273	272	257	264	249	252	251	233	243	252	257	256	249	246	224	229	233	238	243	234	235	239	239	242	245	WSW
8-May-07	237	228	234	239	244	258	261	248	234	228	220	197	184	187	197	210	206	195	184	209	211	210	241	268	220	SW
9-May-07	247	257	349	346	340	318	353	332	301	297	336	6	21	35	42	34	35	35	85	23	45	229	275	275	346	NNW
10-May-07	217	207	175	227	223	226	196	176	168	180	169	162	229	253	253	254	237	236	242	254	335	357	350	358	226	SW
11-May-07	6	23	14	271	0	20	75	81	49	37	34	93	144	181	245	249	247	261	267	271	272	71	339	349	273	W
12-May-07	356	315	310	296	304	309	225	232	238	251	250	252	250	252	254	259	277	270	253	247	246	253	256	259	262	W
13-May-07	259	257	258	258	255	192	177	181	225	226	238	240	242	252	245	349	6	0	345	352	346	291	255	276	261	W
14-May-07	214	288	239	269	238	155	167	146	161	147	165	210	221	230	232	228	234	233	220	315	82	254	243	182	219	SW
15-May-07	183	257	254	258	258	196	231	253	221	144	232	253	214	200	202	202	121	108	93	60	42	70	71	67	197	SSW
16-May-07	123	154	190	209	208	214	219	225	244	240	236	231	243	254	263	268	263	277	273	274	282	303	283	271	253	WSW
17-May-07	259	263	270	264	251	256	269	267	263	246	249	238	239	280	338	343	354	6	11	33	31	28	20	18	293	WNW
18-May-07	26	23	21	18	19	26	34	28	22	26	38	50	53	50	53	63	56	45	45	46	51	45	56	79	38	NE
19-May-07	57	44	45	43	29	43	52	45	51	178	237	263	12	22	25	7	34	42	41	62	135	213	281	9	36	NE
20-May-07	296	252	251	241	252	258	263	268	283	272	293	276	284	308	284	272	200	211	203	309	292	287	313	331	270	W
21-May-07	309	326	299	296	290	341	316	152	177	178	220	252	244	256	227	258	258	234	209	220	260	323	334	233	264	W
22-May-07	292	51	239	263	183	178	175	174	171	171	241	310	323	345	334	329	332	345	320	328	347	13	29	258	315	NW
23-May-07	224	267	277	301	238	248	249	244	238	255	236	277	327	304	124	77	342	118	173	136	250	272	269	278	252	WSW
24-May-07	264	255	262	194	222	197	187	157	180	177	163	183	185	157	173	191	181	179	184	171	113	63	160	161	179	S
25-May-07	181	187	196	210	214	213	191	201	217	211	158	168	184	179	230	174	153	161	128	122	131	175	202	243	180	S
26-May-07	294	223	192	214	221	210	188	176	167	230	248	250	257	251	249	255	242	234	247	251	252	257	241	248	240	WSW
27-May-07	248	224	213	223	225	242	233	232	240	242	239	252	244	259	259	321	295	293	306	328	312	311	316	312	260	W
28-May-07	292	285	280	289	271	262	273	280	278	281	292	290	288	295	300	300	289	297	292	315	302	191	214	257	285	WNW
29-May-07	222	189	196	219	209	217	208	180	180	161	153	158	170	168	167	165	190	129	123	99	91	72	352	178	167	SSE
30-May-07	167	244	188	209	221	194	180	179	187	160	164	183	177	179	174	174	128	130	35	307	299	319	350	270	198	SSW
31-May-07	292	286	338	293	232	233	205	191	214	224	150	193	217	219	221	211	215	200	186	180	193	253	264	307	226	SW
Hourly Avg	275	273	272	270	264	256	244	238	242	241	245	251	252	256	253	258	261	264	263	275	280	285	288	285		

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

Station: Smoky Heights  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**


Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	49.6	40.0	16.6	9.1	5.7	3.4	2.5

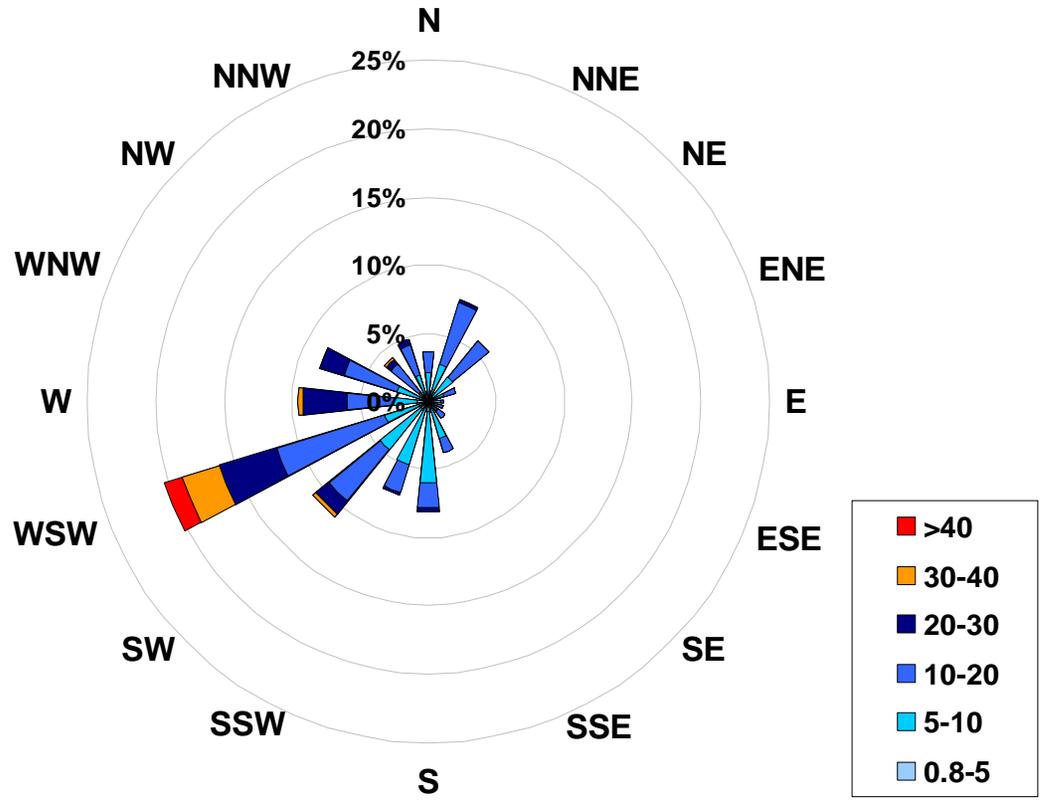
**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-May-07	11	6	20	19	21	21	13	7	7	6	8	9	11	16	22	30	32	31	10	6	4	5	5	6	32.4		
2-May-07	9	3	4	2	3	3	4	5	5	7	10	11	14	11	10	9	12	7	32	26	10	29	8	10	32.5		
3-May-07	3	4	3	5	5	4	6	6	17	14	13	13	11	12	12	7	7	10	9	7	7	6	6	6	16.8		
4-May-07	13	8	9	5	4	3	4	7	9	10	9	9	9	8	5	6	7	6	5	4	5	6	5	4	13.2		
5-May-07	4	5	4	4	3	3	3	5	4	5	4	29	5	6	7	7	7	6	5	4	6	3	3	5	28.8		
6-May-07	3	3	5	4	9	5	3	9	6	7	5	6	5	6	5	6	5	5	4	4	3	4	4	5	8.8		
7-May-07	3	3	9	13	5	3	4	6	9	7	6	7	8	8	9	7	6	5	5	5	3	4	3	4	12.8		
8-May-07	3	3	3	4	4	10	7	4	8	9	13	46	9	9	10	10	7	6	7	7	8	5	6	4	46.5		
9-May-07	5	11	10	7	7	5	9	8	10	12	17	11	7	11	15	15	33	21	49	28	14	30	7	19	49.0		
10-May-07	15	6	11	19	14	5	6	5	11	13	31	34	45	42	18	12	22	19	13	6	36	7	7	6	45.3		
11-May-07	19	25	28	44	32	46	33	18	12	9	23	40	29	21	10	15	12	10	5	3	9	41	29	15	46.0		
12-May-07	9	29	7	6	6	12	44	6	6	8	7	8	9	9	9	7	14	11	6	5	3	2	2	2	43.7		
13-May-07	3	2	1	2	17	24	8	9	11	11	16	13	20	18	15	40	21	11	12	12	6	7	4	11	39.7		
14-May-07	25	29	14	19	20	34	21	17	14	28	28	30	25	34	15	20	27	16	50	30	12	35	17	9	50.4		
15-May-07	4	11	5	4	15	11	9	9	25	44	42	34	45	47	52	45	54	21	17	8	8	11	9	12	53.8		
16-May-07	12	24	48	18	10	5	4	4	5	5	8	9	11	8	13	15	8	7	7	4	3	6	5	4	47.8		
17-May-07	3	3	3	7	4	3	4	4	7	10	20	29	29	35	24	17	16	12	8	10	5	6	6	4	35.1		
18-May-07	4	4	5	4	4	5	6	5	4	6	8	8	10	7	7	8	7	5	7	6	4	4	7	8	9.8		
19-May-07	5	4	4	5	4	6	6	13	14	33	22	56	41	16	19	13	9	18	10	7	6	14	9	13	56.3		
20-May-07	8	6	4	5	5	4	5	8	8	16	41	39	11	13	14	23	40	35	41	31	15	3	6	5	41.2		
21-May-07	10	5	7	4	22	38	38	20	12	14	19	26	43	29	34	46	33	11	14	8	6	8	23	19	45.6		
22-May-07	17	50	49	21	14	8	8	10	12	10	17	8	8	9	9	10	20	12	10	9	7	5	25	53	52.6		
23-May-07	20	22	26	7	7	3	5	8	9	8	6	14	42	32	51	23	64	17	31	29	20	32	10	11	64.0		
24-May-07	13	22	17	13	9	7	9	16	18	24	22	15	16	23	19	18	18	14	10	7	7	13	7	3	23.8		
25-May-07	12	14	7	6	5	4	3	9	11	19	14	16	24	44	48	28	19	25	12	4	3	11	10	10	47.5		
26-May-07	40	15	13	6	2	3	8	5	8	12	12	11	13	12	11	7	8	7	6	5	4	5	10	4	40.1		
27-May-07	10	8	5	3	5	5	5	5	6	9	11	11	13	11	13	11	10	6	9	7	7	4	3	5	12.8		
28-May-07	8	5	8	7	7	6	11	6	6	5	7	6	8	6	8	6	6	6	5	8	42	16	9	16	42.1		
29-May-07	11	12	9	9	13	17	11	8	8	15	11	18	42	48	48	43	29	29	19	5	9	5	19	32	48.2		
30-May-07	16	18	8	8	5	6	3	12	13	12	16	13	29	33	25	20	33	37	21	13	9	8	29	22	37.4		
31-May-07	5	13	8	16	34	32	29	13	10	32	37	20	21	14	27	17	26	22	8	4	4	13	11	14	36.6		
Hourly Max	40	50	49	44	34	46	44	20	25	44	42	56	45	48	52	46	64	37	50	31	42	41	29	53			

1-hr Average Wind Rose (in km/hr) Located at the Smoky Heights Site for May 2007



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	59
5	to	10	242
10	to	20	313
20	to	30	91
30	to	40	28
	>	40	11
Total Non-Zero Values			744

# PASZA – Beaverlodge Station

## Monthly Summary Tables, Graphs, and Roses

# PASZA - Beaverlodge - AQI Monthly Summary

Station: Beaverlodge  
Station Owner: PASZA

## Air Quality Index (AQI)

Monitoring Dates: May 1, 2007 to June 1, 2007

### 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:	647
Number of 1-hr Fair Readings:	49
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

### Status Flag Characters

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

Day	Mountain Standard Time																								
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-May-07	19	18	14	15	N	12	11	11	11	14	19	21	22	23	24	25	24	24	23	21	20	19	20	19	
2-May-07	19	19	18	19	N	18	18	18	18	18	21	21	21	21	20	20	21	20	20	20	19	20	21	20	
3-May-07	19	20	20	19	N	15	16	16	15	15	16	16	18	20	19	20	20	19	19	17	19	20	21	20	
4-May-07	21	20	19	20	N	18	19	19	19	18	17	N	N	15	15	17	18	19	16	15	16	16	15	15	
5-May-07	15	15	15	15	N	14	16	20	20	21	22	22	22	23	25	27	27	27	26	29	31	28	25	24	
6-May-07	23	22	23	22	N	20	19	22	22	23	24	26	25	24	24	24	24	24	24	23	24	25	24	25	
7-May-07	25	23	22	22	N	21	22	24	24	21	20	18	16	15	15	15	15	15	14	13	13	12	12	10	
8-May-07	9	10	9	10	N	10	10	11	12	13	15	17	21	23	22	24	23	23	23	22	20	19	18	18	
9-May-07	17	19	21	20	N	20	21	19	19	18	16	16	18	20	20	22	23	22	19	18	18	17	17	17	
10-May-07	16	12	12	11	N	7	8	11	15	18	21	22	23	23	23	24	25	25	24	21	22	23	23	24	
11-May-07	22	20	16	20	N	6	6	11	15	19	21	23	25	25	24	26	28	26	25	24	23	20	22	19	
12-May-07	24	26	26	27	N	20	18	22	24	24	25	25	25	25	24	24	24	24	24	23	22	20	20	18	
13-May-07	19	20	19	17	N	16	15	17	17	20	N	27	27	27	27	27	27	27	27	25	25	23	22	20	
14-May-07	22	19	16	12	N	11	10	15	18	23	24	26	27	26	27	27	27	27	25	23	20	22	22	19	
15-May-07	20	20	20	17	N	16	12	14	16	20	23	25	28	30	30	30	30	30	31	27	25	24	24	23	
16-May-07	23	21	19	18	N	13	11	13	20	24	25	25	26	27	27	28	26	28	27	24	23	23	23	22	
17-May-07	22	22	21	22	N	22	23	23	23	24	24	24	24	24	24	26	26	27	27	26	24	24	21	15	
18-May-07	14	13	12	12	N	11	10	10	9	10	9	10	10	10	10	11	12	13	12	12	11	11	11	10	
19-May-07	9	9	9	9	N	8	7	7	6	7	10	13	16	17	20	N	22	21	22	19	19	17	17	18	
20-May-07	18	15	14	13	N	11	14	15	17	18	17	17	17	15	14	15	15	16	15	15	16	16	17	14	
21-May-07	13	11	10	9	N	7	9	10	11	13	16	18	19	19	19	20	19	18	19	19	18	19	19	19	
22-May-07	18	16	15	10	N	7	7	9	11	12	14	15	17	20	21	20	19	19	20	19	18	17	16	15	
23-May-07	16	13	12	15	N	13	13	15	16	16	17	16	15	14	14	13	13	13	14	14	13	12	12	12	
24-May-07	14	13	11	8	N	5	6	7	10	13	17	17	N	N	N	23	25	24	23	21	17	16	17	17	
25-May-07	16	11	14	16	N	14	13	13	15	16	N	22	23	23	23	23	24	23	23	21	18	17	17	17	
26-May-07	17	16	15	14	N	12	10	12	14	N	19	21	22	23	23	23	22	21	20	19	18	18	18	18	
27-May-07	17	17	18	18	N	15	14	17	19	19	N	N	N	18	18	18	18	18	19	19	18	17	14	13	
28-May-07	13	13	14	14	N	12	12	12	13	14	14	14	14	14	14	14	13	14	14	15	15	14	13	11	11
29-May-07	11	11	10	11	N	8	6	7	9	N	14	N	N	N	N	21	21	21	20	19	15	14	15	15	
30-May-07	15	10	9	7	N	9	9	12	13	15	18	22	22	23	23	24	24	22	20	18	17	17	16	19	
31-May-07	18	16	17	17	N	13	14	15	16	20	21	21	21	22	23	23	22	23	21	19	18	20	20	17	

# PASZA - Beaverlodge - Sulphur Dioxide Monthly Summary

Station: Beaverlodge  
Station Owner: PASZA

## HOURLY AVERAGE TABLE

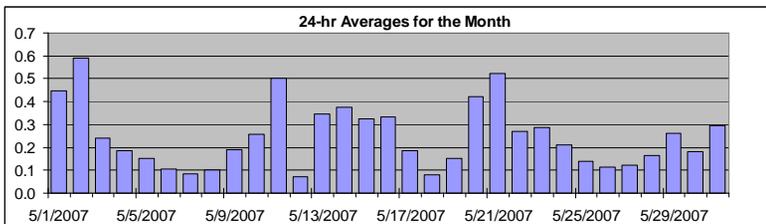
### Sulphur Dioxide (SO<sub>2</sub>)

Monitoring Dates: May 1, 2007 to June 1, 2007

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:	2.0 ppb	23-May	0:00	1:00
Maximum 24-hr Average:	0.6 ppb	2-May		

AIC Time:	32 hrs		Operational Time:	710 hrs					
Calibration Time:	2 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	1.2	0.8	0.3	0.2	0.1	0.0	0.0	0.2 ppb	0.2 ppb



### Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
Hour Start	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-May-07	0	0	0	1	A	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	2	1	0.4	1.9
2-May-07	1	1	0	1	A	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.6	1.2
3-May-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.2	0.8
4-May-07	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
5-May-07	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
6-May-07	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
7-May-07	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
8-May-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
9-May-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	0.8
10-May-07	1	1	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	1.0
11-May-07	1	1	1	2	A	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.5	1.7
12-May-07	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
13-May-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0.3	1.3
14-May-07	1	0	1	0	A	0	0	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.4	1.0
15-May-07	0	0	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9
16-May-07	1	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.0
17-May-07	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
18-May-07	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-May-07	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
20-May-07	0	0	0	0	A	0	0	1	1	2	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0.4	1.6
21-May-07	0	1	1	1	A	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	1	1	0.5	1.2
22-May-07	1	1	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	1.2
23-May-07	2	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.0
24-May-07	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
25-May-07	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
26-May-07	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
27-May-07	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.8
28-May-07	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
29-May-07	0	0	0	0	A	0	1	0	0	C	C	A	0	0	0	0	0	0	0	0	0	0	0	1	0.3	0.7
30-May-07	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
31-May-07	0	0	0	0	A	0	0	1	1	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0.3	0.9
Hourly Avg	0.3	0.4	0.3	0.3	N	0.2	0.2	0.3	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		
Hourly Max	2.0	1.4	1.2	1.7	0.0	0.8	0.9	1.2	1.2	1.6	1.1	0.8	0.9	1.3	1.1	1.3	0.7	0.8	0.5	0.5	1.0	0.7	1.9	1.2		

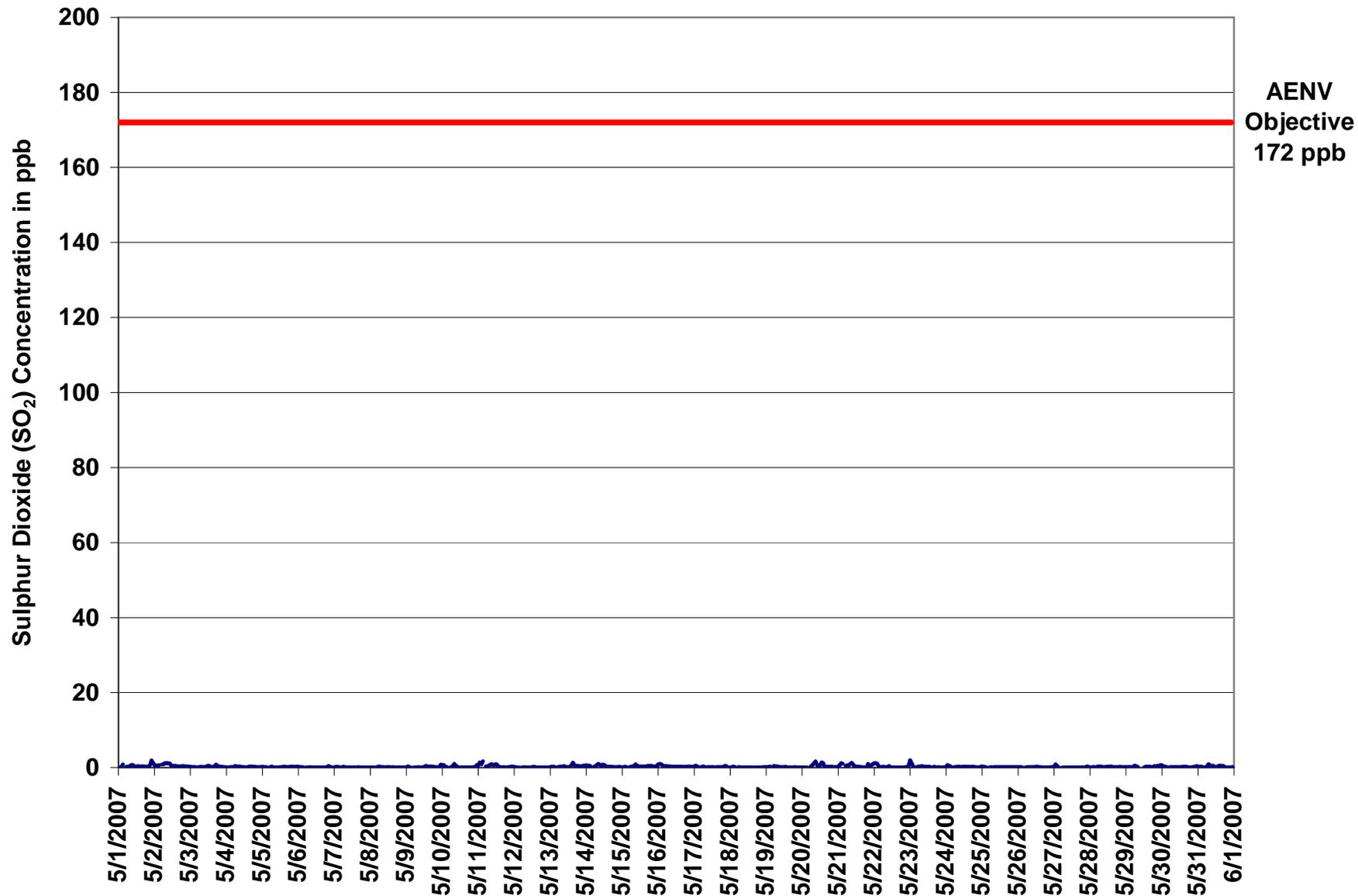


Figure 34. PASZA - Beaverlodge Sulphur Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge  
 Station Owner: PASZA

### INSTANTANEOUS (30 Second) MAXIMUM TABLE

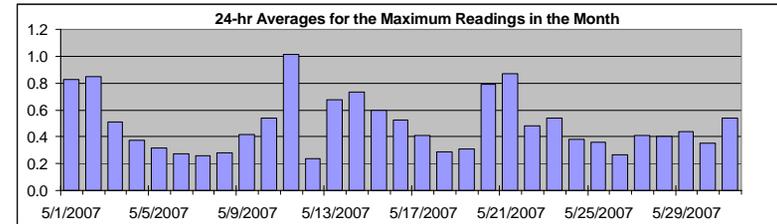
### Sulphur Dioxide (SO<sub>2</sub>)

Monitoring Dates: May 1, 2007 to June 1, 2007

#### Summary

Maximum 1-hr Value:	6.9	ppb	11-May	3:00 4:00
Maximum 24-hr Value:	1.0	ppb	11-May	

AIC Time:	32 hrs	Operational Time:	710 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.3	1.4	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

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-07	0	0	1	2	A	0	0	0	1	1	1	0	0	1	0	0	1	0	0	0	1	4	2	0.8	3.6	
2-May-07	1	1	1	1	A	1	1	2	1	2	2	1	1	1	1	0	0	0	1	1	0	1	1	0	0.8	1.6
3-May-07	0	0	0	0	A	0	0	0	0	0	0	1	1	1	0	0	1	1	1	1	0	0	0	0	0.5	1.4
4-May-07	0	0	0	0	A	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.4	0.6
5-May-07	0	0	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7
6-May-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0.3	1.2
7-May-07	0	1	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
8-May-07	0	0	0	0	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9
9-May-07	0	1	0	0	A	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	1	1	0.4	1.1
10-May-07	1	1	0	0	A	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.5	2.3
11-May-07	1	2	2	7	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1.0	6.9
12-May-07	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
13-May-07	0	0	0	0	A	0	0	0	0	0	3	0	0	0	1	2	1	1	1	1	1	1	1	1	0.7	2.5
14-May-07	1	1	1	1	A	0	0	1	1	1	1	2	1	1	0	1	0	0	0	0	0	0	0	0	0.7	1.9
15-May-07	0	0	0	0	A	0	0	2	1	1	1	0	1	0	0	0	0	1	1	1	1	0	0	1	0.6	2.3
16-May-07	1	1	1	1	A	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.5	1.3
17-May-07	1	1	0	0	A	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0.4	1.0
18-May-07	0	0	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.4
19-May-07	0	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7
20-May-07	0	0	0	0	A	0	1	1	2	3	1	1	1	2	2	0	1	0	0	0	0	0	0	0	0.8	2.6
21-May-07	0	1	2	2	A	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	3	0	1	2	0.9	2.5
22-May-07	1	2	1	1	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.5	1.7
23-May-07	3	2	1	0	A	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0.5	3.0
24-May-07	1	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.9
25-May-07	0	0	0	0	A	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.4	1.6
26-May-07	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	0.4
27-May-07	1	2	2	1	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0.4	1.9
28-May-07	0	0	0	0	A	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.4	1.5
29-May-07	0	0	0	0	A	1	1	0	0	C	C	A	0	0	0	0	0	0	0	1	1	1	1	1	0.4	0.9
30-May-07	1	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9
31-May-07	0	1	0	0	A	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	0	0	0	0	0.5	1.3
Hourly Avg	0.6	0.7	0.6	0.7	N	0.4	0.5	0.6	0.7	0.7	0.5	0.4	0.4	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.5	0.5		
Hourly Max	3.0	2.0	1.7	6.9	0.0	1.1	1.5	2.3	2.3	2.6	1.6	1.9	1.3	1.7	1.5	2.1	1.0	1.4	0.8	0.9	2.5	1.2	3.6	1.7		

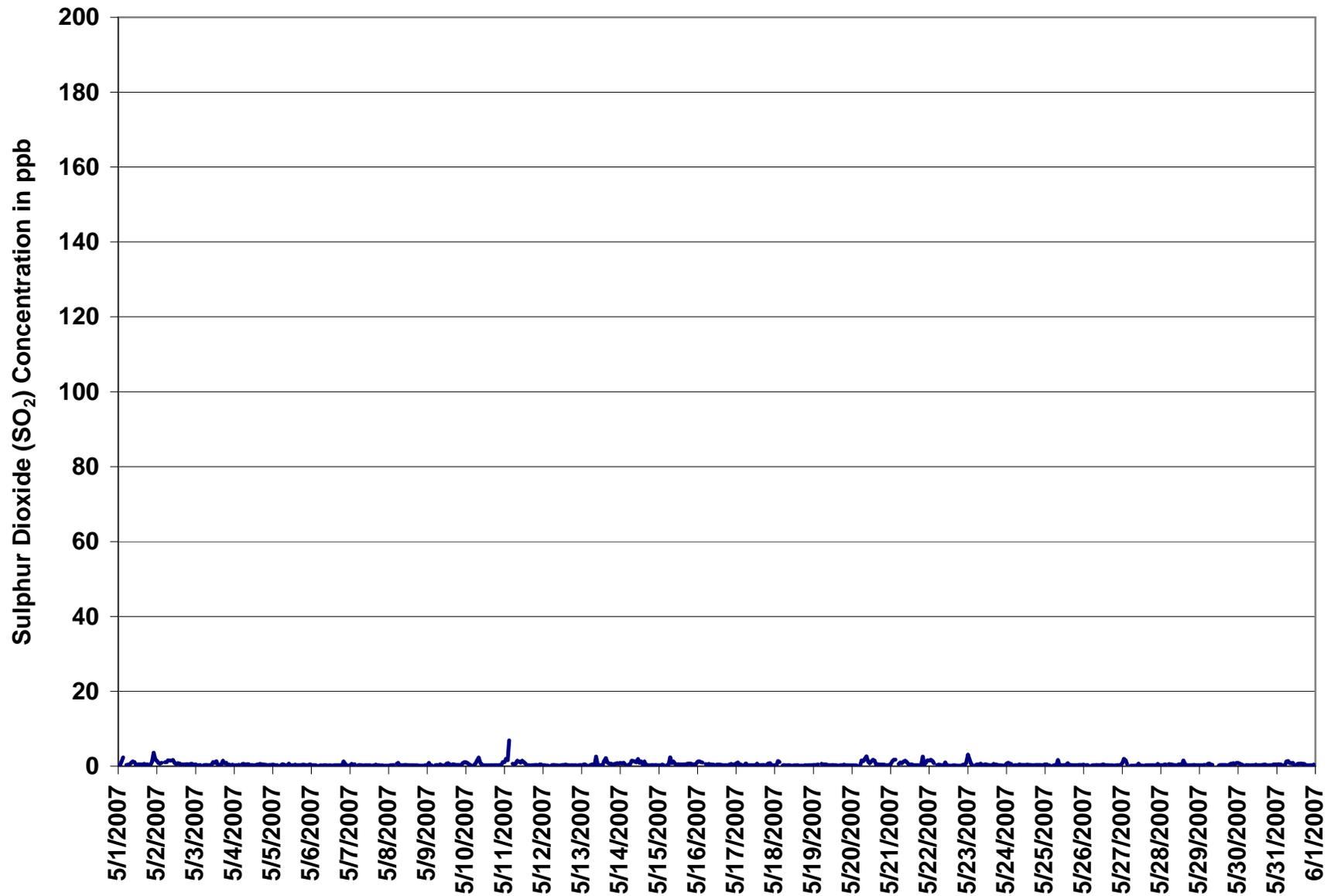
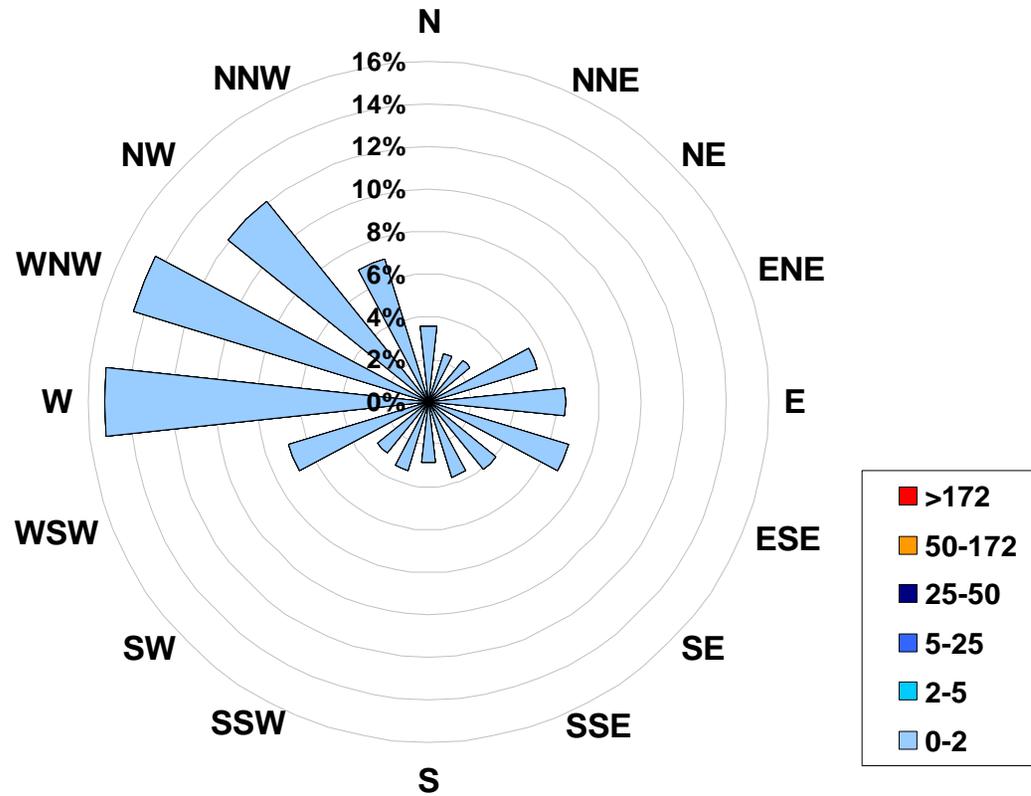


Figure 35. PASZA - Beaverlodge Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Beaverlodge Site for May 2007**



**Calms: 0%**

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

# PASZA - Beaverlodge - Nitrogen Dioxide Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

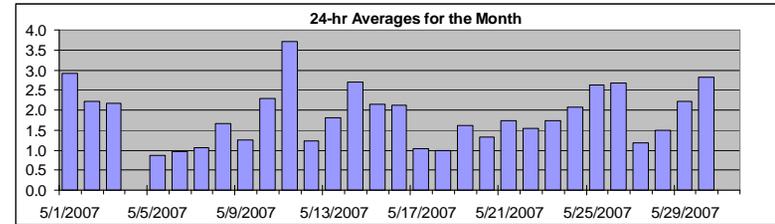
## Nitrogen Dioxide (NO<sub>2</sub>)

Monitoring Dates: May 1, 2007 to June 1, 2007

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:	16.0	ppb	11-May	5:00 6:00
Maximum 24-hr Average:	3.7	ppb	11-May	



AIC Time:	32 hrs	Operational Time:	692 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	98.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	6.6	4.7	2.2	1.2	0.9	0.8	0.7	1.9 ppb	1.2 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-May-07	2	2	7	5	A	6	6	5	10	6	1	1	1	1	1	1	1	1	2	1	2	2	2	2	2.9	10.0	
2-May-07	2	2	3	2	A	3	3	3	3	3	2	2	2	2	2	2	2	2	3	2	2	2	2	1	2.2	2.9	
3-May-07	2	1	1	2	A	3	2	4	3	3	3	2	2	2	2	2	2	3	2	3	2	2	1	1	2.2	3.8	
4-May-07	1	1	1	1	A	2	3	2	2	1	C	C	C	C	C	A	2	1	1	1	1	1	1	1	N	3.0	
5-May-07	1	1	1	1	A	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.6	
6-May-07	1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.1	
7-May-07	1	1	2	1	A	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.3	
8-May-07	2	1	2	2	A	3	3	3	1	1	1	1	1	1	1	1	1	1	1	3	2	1	2	1	1.7	3.5	
9-May-07	2	1	1	1	A	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	2	1.2	2.7	
10-May-07	3	6	4	4	A	6	5	3	2	2	1	1	1	1	1	1	1	1	1	3	3	2	1	1	2.3	5.6	
11-May-07	2	7	12	5	A	16	9	4	4	3	3	2	2	1	1	1	1	1	1	1	2	2	2	4	3.7	16.0	
12-May-07	1	1	1	1	A	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	1.2	4.6	
13-May-07	2	2	2	2	A	2	4	4	4	4	1	1	1	1	1	1	1	1	1	1	1	2	3	2	1.8	4.3	
14-May-07	2	2	4	5	A	6	6	5	4	1	2	1	1	3	1	3	1	1	1	1	6	3	2	3	2.7	5.7	
15-May-07	2	2	4	4	A	3	5	3	4	3	2	1	1	1	1	1	1	1	2	3	2	2	2	2	2.1	4.8	
16-May-07	2	4	3	4	A	6	6	5	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2.1	6.3	
17-May-07	1	1	1	1	A	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.6	
18-May-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.0	1.9	
19-May-07	2	2	2	2	A	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	2	2	1	1	1.6	2.4	
20-May-07	1	1	1	1	A	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	3	1.3	3.0	
21-May-07	2	3	4	3	A	5	3	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.7	4.9	
22-May-07	1	1	1	2	A	4	5	3	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.5	5.2	
23-May-07	2	3	4	2	A	3	3	2	1	1	1	1	1	1	1	1	1	1	1	1	2	4	3	1	1.7	4.2	
24-May-07	1	2	2	2	A	4	4	3	2	1	1	1	1	1	1	1	1	1	1	2	5	5	3	3	2.1	4.7	
25-May-07	4	4	3	4	A	5	5	4	6	3	2	1	1	1	1	1	1	1	1	2	3	3	2	4	2.6	5.9	
26-May-07	4	5	6	6	A	8	7	4	3	2	2	1	1	1	1	1	1	1	1	1	2	2	2	2	2.7	7.6	
27-May-07	2	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	1.2	3.0	
28-May-07	1	1	1	1	A	2	2	2	1	1	1	1	1	1	1	1	1	1	2	1	2	3	3	2	1.5	3.3	
29-May-07	2	3	4	3	A	3	5	3	2	1	1	2	1	1	1	1	1	1	1	3	3	3	2	2	2.2	5.1	
30-May-07	2	4	7	4	A	4	4	3	3	3	3	1	1	1	1	1	1	1	2	3	4	4	5	2	2.8	6.7	
31-May-07	2	3	3	3	A	5	4	5	5	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	5.5
Hourly Avg	1.8	2.3	2.8	2.5	N	3.7	3.5	2.8	2.4	1.9	1.3	1.1	1.0	1.1	1.0	1.1	1.0	1.1	1.2	1.6	1.9	1.9	1.9	1.9			
Hourly Max	3.9	7.1	11.9	5.8	0.0	16.0	8.6	5.5	10.0	6.2	3.0	3.0	2.0	3.4	2.2	2.5	2.2	2.7	2.6	3.5	5.6	4.6	4.9	4.6			

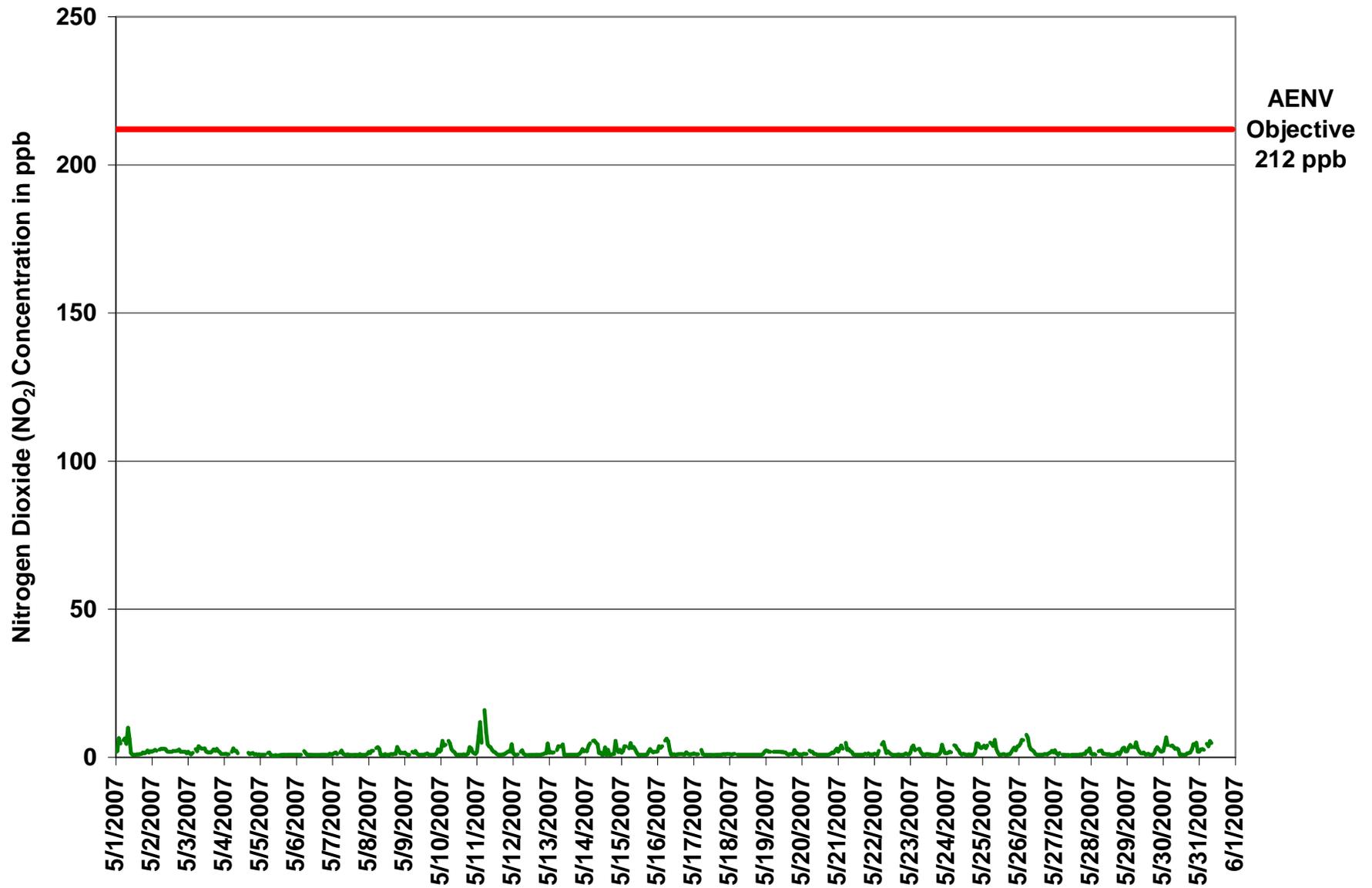


Figure 36. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge  
 Station Owner: PASZA

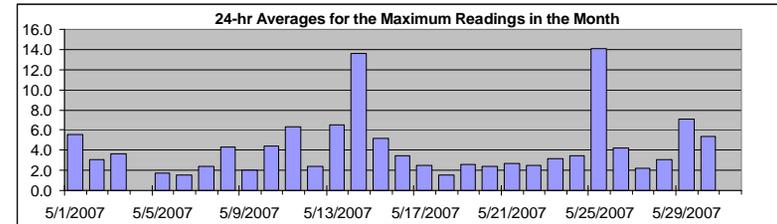
### INSTANTANEOUS (30 Second) MAXIMUM TABLE

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

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	222.4	ppb	25-May	8:00 9:00
Maximum 24-hr Value:	14.1	ppb	25-May	



AIC Time:	32 hrs	Operational Time:	692 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	98.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	26.7	10.4	3.9	2.7	1.9	0.9	0.9	4.2 ppb	2.7 ppb

**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum	
1-May-07	2	5	15	10	A	11	14	7	19	13	2	1	1	2	2	2	2	3	3	3	4	4	3	5.6	19.4		
2-May-07	3	3	3	3	A	4	4	4	3	3	3	3	2	4	3	4	3	4	3	4	3	3	2	3.1	3.8		
3-May-07	3	2	2	3	A	6	4	9	8	4	5	5	3	3	3	2	3	4	3	4	4	3	2	3.7	8.7		
4-May-07	2	3	2	3	A	4	5	5	4	3	C	C	C	C	C	A	3	2	2	2	2	2	1	2	N	5.3	
5-May-07	2	2	1	1	A	2	7	2	1	1	5	1	1	1	1	1	1	2	2	1	2	2	1	1.7	6.7		
6-May-07	1	1	1	2	A	3	3	2	2	2	1	1	1	1	1	2	2	1	1	2	1	3	2	1.5	3.1		
7-May-07	2	4	3	2	A	4	7	3	2	2	2	2	1	2	2	2	1	2	3	1	2	1	2	4	2.4	6.7	
8-May-07	4	3	4	4	A	6	7	7	2	2	9	17	1	5	2	3	2	3	3	5	5	3	3	3	4.3	16.8	
9-May-07	2	2	1	2	A	3	3	3	2	2	1	2	2	1	3	4	1	1	1	2	1	2	4	3	2.0	3.8	
10-May-07	12	13	7	6	A	10	11	4	3	3	1	1	1	1	1	2	2	3	8	5	4	3	3	4.4	12.6		
11-May-07	3	14	16	13	A	26	13	7	5	4	3	3	2	2	2	2	2	2	3	3	4	9	8	6.4	26.2		
12-May-07	5	1	1	2	A	3	4	3	2	1	1	1	1	1	1	2	2	2	2	2	3	3	13	2.4	12.5		
13-May-07	3	3	3	3	A	3	5	4	5	93	1	1	1	1	1	1	2	1	2	3	3	9	3	6.5	93.3		
14-May-07	4	3	13	8	A	11	7	9	6	4	40	1	1	57	1	113	2	1	3	3	11	6	3	6	13.6	113.5	
15-May-07	3	3	5	5	A	5	7	5	32	4	7	1	4	2	2	1	2	3	6	14	5	4	2	2	5.2	31.7	
16-May-07	3	6	4	4	A	9	9	8	5	2	2	2	2	2	3	3	2	2	2	3	3	2	2	3	3.5	8.7	
17-May-07	3	3	2	2	A	5	2	2	2	1	1	1	6	12	1	2	1	2	1	2	2	2	2	2	2.5	12.2	
18-May-07	2	2	2	2	A	1	2	2	2	2	1	2	2	2	1	1	1	2	1	1	1	1	2	3	1.5	2.8	
19-May-07	3	3	2	2	A	3	3	3	3	2	2	2	3	3	2	1	3	3	2	9	2	2	2	2	2.6	8.7	
20-May-07	2	2	4	2	A	5	3	3	3	2	2	2	1	1	1	1	2	2	2	2	2	3	6	5	2.4	5.8	
21-May-07	3	4	10	4	A	8	4	3	3	2	2	1	1	1	1	1	2	3	2	2	2	2	2	2	2.7	10.2	
22-May-07	3	2	1	4	A	6	9	5	3	3	3	2	2	1	1	1	2	2	1	2	2	2	2	2	2.5	8.7	
23-May-07	2	13	7	4	A	6	4	3	2	2	1	2	2	2	1	1	1	1	1	2	5	6	4	2	3.2	12.8	
24-May-07	2	5	5	3	A	6	5	4	3	3	2	2	2	3	1	2	1	1	2	4	8	10	4	4	3.5	10.2	
25-May-07	5	5	4	6	A	6	6	6	222	4	3	1	1	6	17	1	1	2	3	4	5	7	4	5	14.1	222.4	
26-May-07	7	7	7	10	A	9	10	6	5	3	3	2	2	2	2	2	3	3	3	2	4	3	5	3	4.2	9.6	
27-May-07	7	3	1	4	A	2	2	1	1	1	2	1	1	1	1	2	3	2	4	2	5	3	4	2.2	6.7		
28-May-07	3	2	2	2	A	4	4	5	3	2	2	2	2	2	3	2	2	2	3	2	3	9	8	4	3.1	8.7	
29-May-07	3	5	5	5	A	5	7	6	4	4	5	65	5	3	12	1	2	2	3	8	6	4	3	3	7.1	65.4	
30-May-07	5	10	12	5	A	8	8	5	4	4	4	3	2	1	1	2	2	5	3	4	8	14	11	3	5.4	14.5	
31-May-07	3	4	6	3	A	11	5	11	9	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	11.3
Hourly Avg	3.3	4.3	4.8	4.0	N	6.2	5.8	4.6	11.8	5.8	3.9	4.4	1.8	4.3	2.4	5.5	1.8	2.0	2.3	3.4	3.5	3.8	3.7	3.3			
Hourly Max	11.6	14.3	16.1	12.5	0.0	26.2	13.7	10.6	222.4	93.3	39.8	65.4	5.7	57.3	17.4	113.5	3.5	4.8	5.5	13.9	11.2	14.5	11.4	12.5			

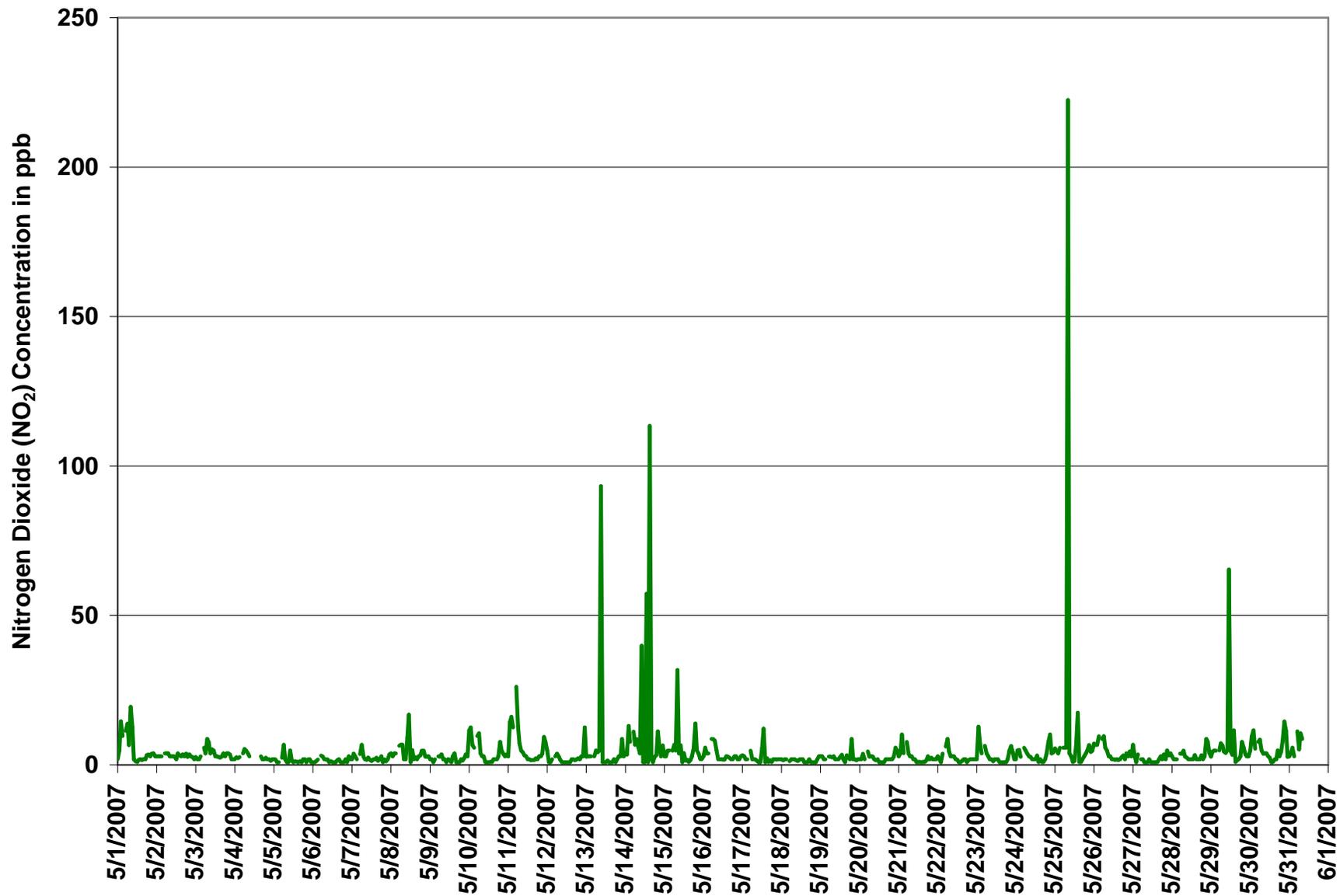
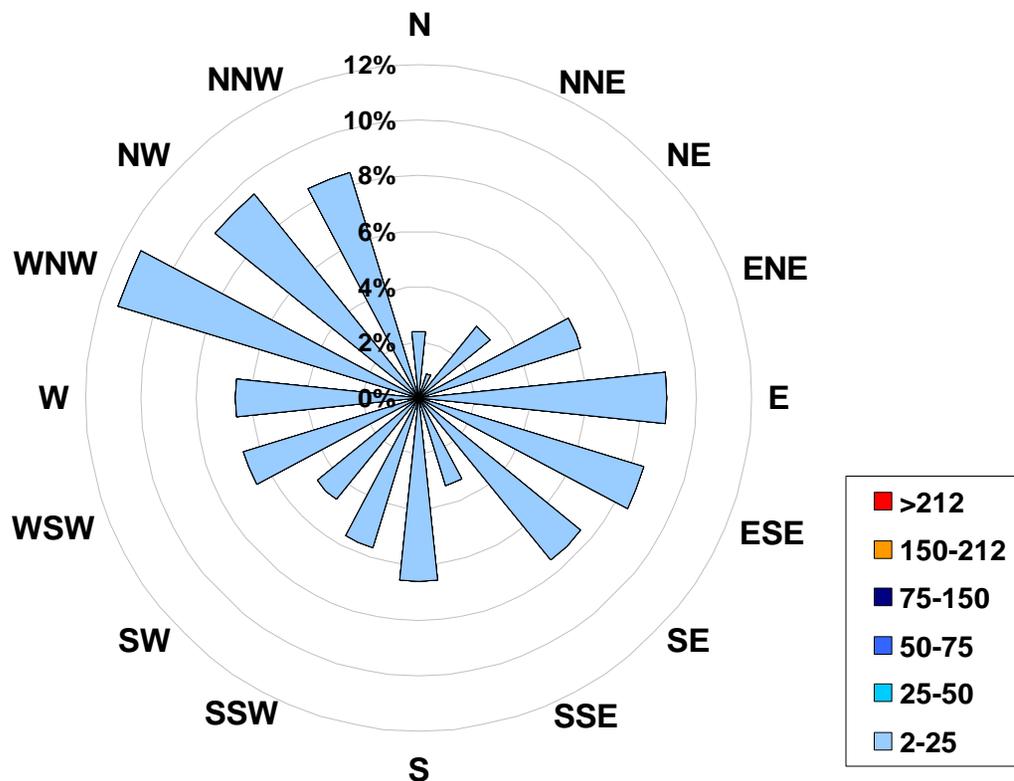


Figure 37. PASZA - Beaverlodge Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Beaverlodge Site for May 2007**



**Calms: 0%**

Frequency Distribution of NO <sub>2</sub> in ppb			
Range		Frequency (hrs)	
2.0	< 25	692	
25	to 50	0	
50	to 75	0	
75	to 150	0	
150	to 212	0	
	> 212	0	
Total Non-Zero Values		692	



## PASZA - Beaverlodge - Oxides of Nitrogen Monthly Summary

Station: Beaverlodge  
Station Owner: PASZA

### HOURLY AVERAGE TABLE

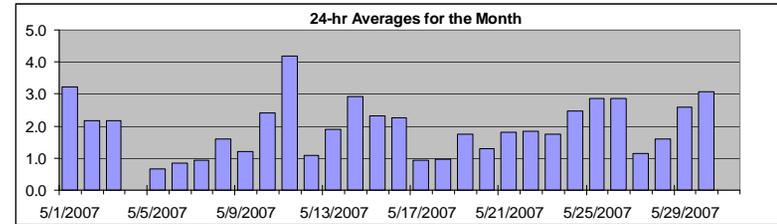
### Oxides of Nitrogen (NO<sub>x</sub>)

Monitoring Dates: May 1, 2007 to June 1, 2007

Guideline Limit: Alberta Environment: 

1-hr	na	ppb
24-hr	na	ppb

Maximum 1-hr Average:	19.3	ppb	11-May	5:00 6:00
Maximum 24-hr Average:	4.2	ppb	11-May	



AIC Time:	32 hrs	Operational Time:	692 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	98.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	8.1	5.5	2.3	1.2	0.9	0.6	0.4	2.0 ppb	1.2 ppb

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum				
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00	23:00	
1-May-07			2	2	6	5	A	6	7	6	15	8	2	1	1	1	1	1	1	1	1	1	1	1	2	1	2	3.2	14.6	
2-May-07			2	2	2	2	A	2	3	3	3	3	3	2	2	2	2	2	2	2	2	3	2	2	2	2	1	2.2	3.0	
3-May-07			2	1	1	1	A	3	2	4	3	3	3	3	2	2	2	2	2	3	2	3	2	2	1	1	2.2	3.8		
4-May-07			1	1	1	1	A	2	3	2	2	1	C	C	C	C	C	A	2	1	1	1	1	1	1	1	1	N	3.1	
5-May-07			1	1	1	1	A	1	1	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1	1	1	0.7	1.5	
6-May-07			1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0	1	1	0.8	2.1	
7-May-07			1	1	1	1	A	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0.9	2.4	
8-May-07			2	1	2	2	A	3	4	3	1	1	1	1	0	1	1	1	1	1	1	1	3	2	1	1	1	1.6	3.7	
9-May-07			1	1	1	1	A	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	2	1.2	2.5	
10-May-07			2	6	4	4	A	6	6	4	3	2	1	1	1	1	1	1	1	1	1	1	3	3	2	1	1	2.4	6.2	
11-May-07			2	7	12	5	A	19	12	6	5	5	3	2	2	1	1	1	1	1	1	1	1	2	2	2	4	4.2	19.3	
12-May-07			1	1	1	1	A	2	2	1	1	0	0	1	0	1	1	1	1	1	0	1	1	1	1	1	5	1.1	4.5	
13-May-07			1	2	1	2	A	2	4	5	5	6	1	1	1	1	1	1	1	1	1	1	1	1	3	2	1.9	5.9		
14-May-07			2	2	4	5	A	6	7	6	6	2	2	1	1	5	1	2	1	1	1	1	1	6	2	2	2	2.9	6.7	
15-May-07			1	2	4	4	A	3	6	5	5	4	2	1	1	1	1	1	1	1	2	3	2	2	2	2	2	2.3	5.7	
16-May-07			2	4	3	4	A	6	7	7	3	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2.3	7.4	
17-May-07			1	1	1	1	A	3	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0.9	2.6	
18-May-07			1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.0	1.8	
19-May-07			2	2	2	2	A	2	2	3	3	3	2	2	2	2	2	1	1	1	1	1	1	2	1	1	1	1.7	2.9	
20-May-07			1	1	1	1	A	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	1.3	3.0	
21-May-07			2	3	4	3	A	5	3	3	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.8	5.4	
22-May-07			1	1	1	2	A	5	8	5	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.8	7.7	
23-May-07			1	3	4	2	A	3	3	2	1	1	1	1	1	1	1	0	1	1	1	1	1	2	4	2	1	1.7	4.2	
24-May-07			1	1	2	2	A	5	6	5	4	2	1	2	1	1	1	1	1	1	1	1	2	5	5	3	3	2.5	6.3	
25-May-07			3	4	3	4	A	5	6	6	8	4	2	1	1	1	1	1	1	1	1	1	2	3	3	2	4	2.9	7.5	
26-May-07			4	4	6	6	A	8	8	5	4	3	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2.9	8.4	
27-May-07			2	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	3	1.1	3.0	
28-May-07			1	1	1	1	A	2	2	3	1	1	1	1	1	1	1	2	1	1	2	2	1	2	3	3	2	1.6	3.3	
29-May-07			2	3	4	3	A	4	8	5	3	2	2	2	1	1	1	1	1	1	1	3	4	3	2	2	2	2.6	8.4	
30-May-07			2	4	7	4	A	4	5	5	4	4	3	1	1	1	1	1	1	1	1	2	3	4	4	5	2	3.1	6.8	
31-May-07			2	3	3	2	A	5	4	7	7	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	7.2
Hourly Avg			1.7	2.2	2.8	2.4	N	4.0	4.3	3.5	3.1	2.3	1.5	1.2	1.0	1.1	1.0	1.0	1.0	1.0	1.0	1.2	1.6	1.8	1.8	1.7	1.8			
Hourly Max			3.8	7.0	12.0	5.8	0.0	19.3	12.5	7.2	14.6	8.1	3.4	3.3	2.1	4.8	2.2	2.5	2.2	2.7	2.7	3.5	5.6	4.6	4.9	4.5				

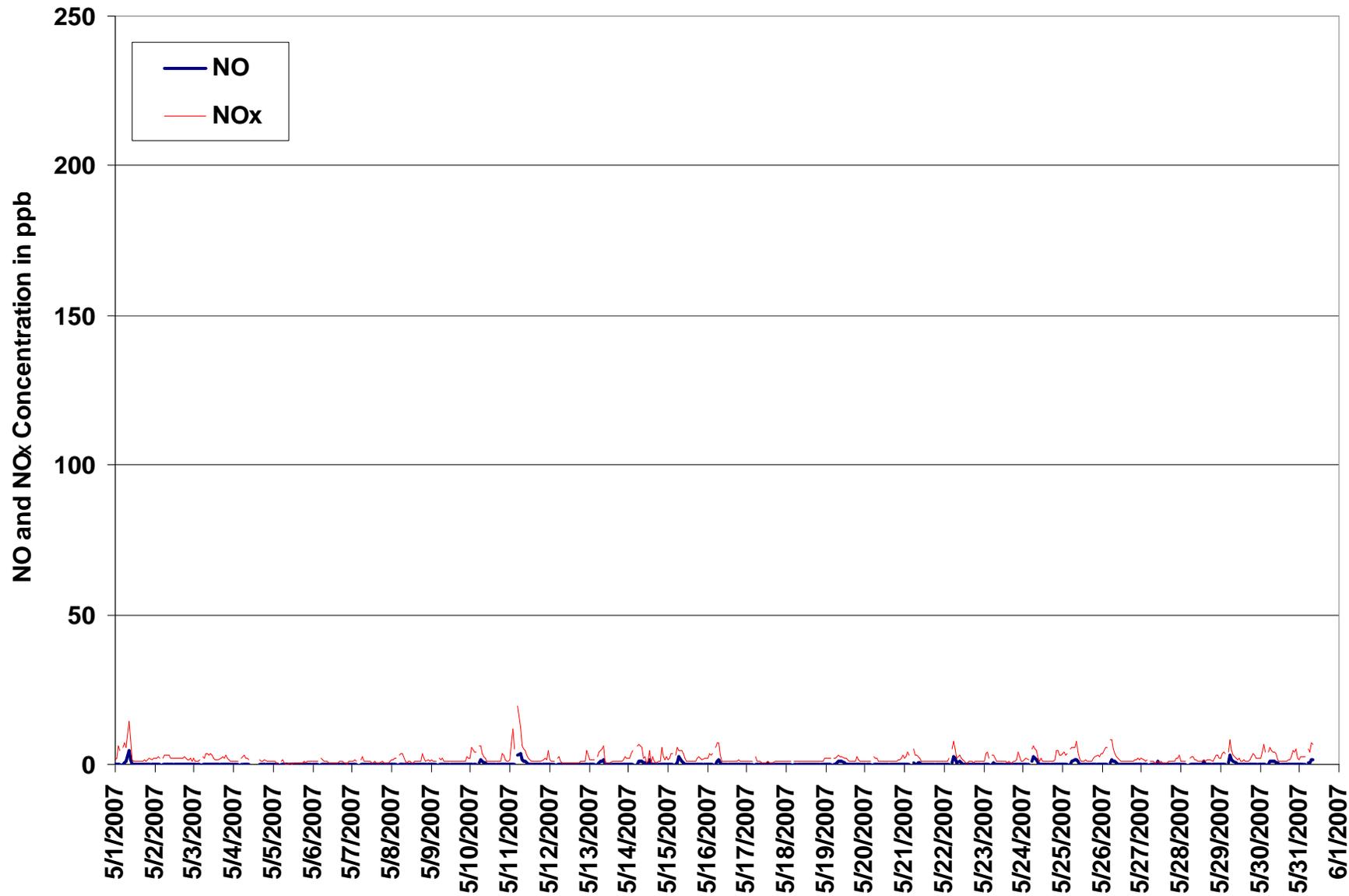


Figure 38. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Beaverlodge  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

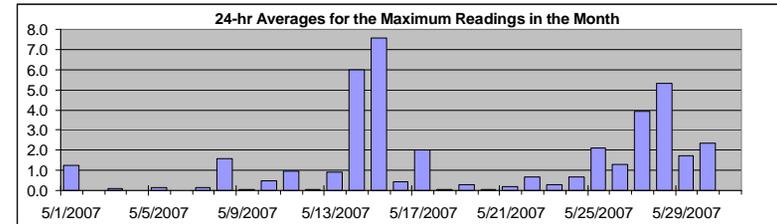
**Nitric Oxide (NO)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	142.7	ppb	15-May	7:00 8:00
Maximum 24-hr Value:	7.6	ppb	15-May	

AIC Time:	32 hrs	Operational Time:	692 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	98.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	23.5	4.0	0.0	0.0	0.0	0.0	0.0	1.4 ppb	0.0 ppb



**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-May-07	0	0	0	0	A	0	5	3	13	5	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1.2	13.3	
2-May-07	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-May-07	0	0	0	0	A	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9	
4-May-07	0	0	0	0	A	0	0	0	0	0	C	C	C	C	C	A	0	0	0	0	0	0	0	0	N	0.0	
5-May-07	0	0	0	0	A	0	0	0	0	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0.2	2.9	
6-May-07	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	
7-May-07	0	0	0	0	A	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0.1	0.9	
8-May-07	0	0	0	0	A	0	1	1	0	0	23	1	9	1	0	0	0	0	0	0	0	0	0	0	1.6	22.5	
9-May-07	0	0	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.3	
10-May-07	0	0	0	0	A	2	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	5.1	
11-May-07	0	0	0	0	A	8	8	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	7.8	
12-May-07	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	0.9	
13-May-07	0	0	0	0	A	0	1	1	2	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	17.2	
14-May-07	0	0	0	0	A	1	2	2	2	17	36	0	0	76	1	1	0	0	0	0	0	0	0	0	6.0	76.1	
15-May-07	0	0	0	0	A	0	2	143	7	6	5	0	10	0	0	0	0	0	1	1	0	0	0	0	7.6	142.7	
16-May-07	0	0	0	0	A	1	2	3	2	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.4	2.7	
17-May-07	0	0	0	0	A	0	0	0	6	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	2.0	39.9	
18-May-07	0	0	0	0	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.0	0.9	
19-May-07	0	0	0	0	A	0	0	1	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0.3	1.0	
20-May-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.0	0.9	
21-May-07	0	0	0	0	A	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9	
22-May-07	0	0	0	0	A	2	5	3	2	2	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0.7	4.8	
23-May-07	0	2	0	0	A	1	1	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.3	1.9	
24-May-07	0	0	0	0	A	2	3	3	2	1	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0.7	2.9	
25-May-07	0	0	0	0	A	1	2	6	10	2	1	0	0	5	21	0	0	0	0	0	0	0	0	0	2.1	21.3	
26-May-07	0	0	0	0	A	1	5	2	18	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1.3	18.4	
27-May-07	0	0	0	0	A	0	0	0	0	0	90	0	0	0	0	0	0	1	0	0	0	0	0	0	3.9	89.6	
28-May-07	0	0	0	0	A	0	0	1	0	1	0	0	0	117	0	1	1	1	0	0	0	0	0	0	5.3	116.6	
29-May-07	0	0	0	0	A	1	5	3	4	2	3	5	4	4	7	0	0	0	0	1	0	0	0	0	1.7	7.3	
30-May-07	1	0	0	2	A	2	4	2	1	5	4	34	0	0	0	0	0	0	0	0	0	0	0	0	2.4	33.5	
31-May-07	0	0	0	0	A	4	1	5	4	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	4.9
Hourly Avg	0.0	0.1	0.0	0.1	N	0.8	1.7	5.9	2.5	2.1	6.0	1.6	0.9	4.5	5.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hourly Max	1.0	1.9	0.0	2.3	0.0	7.5	7.8	142.7	18.4	17.2	89.6	33.5	10.2	76.1	116.6	1.1	0.9	0.9	0.9	0.9	0.0	0.6	0.7	0.0	0.0	0.0	0.0

Station: Beaverlodge  
Station Owner: PASZA

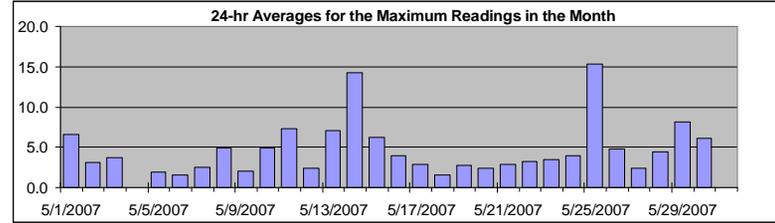
### INSTANTANEOUS (30 Second) MAXIMUM TABLE

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

Monitoring Dates: May 1, 2007 to June 1, 2007

#### Summary

Maximum 1-hr Value:	228.4	ppb	25-May	8:00 9:00
Maximum 24-hr Value:	15.3	ppb	25-May	



AIC Time:	32 hrs	Operational Time:	692 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	98.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	34.0	12.0	4.5	2.8	1.9	0.9		4.7 ppb	2.8 ppb

#### Status Flag Characters

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

#### Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-May-07	2	5	15	10	A	12	16	9	31	18	3	1	1	1	1	2	2	3	3	3	5	4	3	6.6	31.5		
2-May-07	2	3	3	3	A	4	5	4	3	3	3	3	2	4	4	3	4	3	4	3	4	2	2	2	3.1	4.9	
3-May-07	2	2	1	3	A	5	4	9	8	4	6	6	3	3	3	3	4	3	4	4	3	2	2	3.7	8.8		
4-May-07	2	2	2	2	A	4	6	5	4	3	C	C	C	C	A	3	2	2	3	2	2	1	2	N	5.7		
5-May-07	2	1	1	1	A	3	8	2	1	1	8	1	1	2	2	1	2	1	2	2	1	2	1	1	1.9	7.9	
6-May-07	1	1	1	1	A	3	3	2	2	2	1	1	1	1	1	2	2	1	1	1	1	1	3	2	1.5	2.9	
7-May-07	1	3	3	2	A	4	7	3	2	2	4	2	2	2	3	3	2	2	3	1	2	2	2	4	2.5	6.8	
8-May-07	4	3	4	4	A	7	8	8	2	2	18	16	1	6	2	3	2	3	3	5	5	3	3	3	4.9	17.8	
9-May-07	2	2	1	2	A	3	3	3	2	2	2	3	2	1	3	4	1	1	1	2	1	2	3	2	2.0	3.9	
10-May-07	12	13	6	6	A	12	16	5	5	4	1	1	1	1	1	2	2	2	3	8	5	3	3	3	4.9	16.0	
11-May-07	3	14	16	13	A	34	21	10	6	6	4	3	2	2	1	2	2	3	2	3	3	4	10	7	7.3	34.2	
12-May-07	5	1	1	1	A	3	5	3	2	1	1	1	1	1	1	2	2	1	2	2	2	3	3	13	2.4	12.8	
13-May-07	3	3	3	3	A	3	6	6	6	102	1	1	1	1	1	1	1	2	1	2	2	3	9	3	7.0	101.8	
14-May-07	3	3	13	8	A	12	8	11	8	5	42	1	1	59	2	116	2	1	3	3	11	6	3	7	14.2	115.6	
15-May-07	3	3	5	5	A	5	8	13	34	10	12	1	5	2	2	1	2	3	6	14	5	4	2	2	6.3	34.0	
16-May-07	3	6	4	4	A	10	11	11	7	3	2	2	2	2	3	3	2	2	2	3	3	2	2	3	3.9	10.8	
17-May-07	3	3	2	2	A	5	2	2	2	1	1	1	6	21	1	3	1	2	1	2	2	2	2	2	2.9	20.6	
18-May-07	2	1	2	2	A	1	2	2	2	2	2	2	2	3	1	2	1	2	1	1	1	1	1	2	1.6	2.6	
19-May-07	3	3	2	2	A	3	3	3	3	3	3	3	3	4	2	1	4	3	2	9	2	2	1	2	2.8	8.8	
20-May-07	2	2	4	2	A	5	3	3	3	2	2	2	1	1	1	1	1	2	2	2	2	3	6	5	2.4	5.9	
21-May-07	3	4	10	4	A	8	4	4	4	3	2	1	1	1	1	1	1	1	3	2	2	3	2	2	2.8	10.1	
22-May-07	3	2	1	4	A	9	14	8	4	4	3	3	2	2	2	2	2	2	1	2	2	2	2	2	3.2	13.7	
23-May-07	2	14	7	4	A	7	5	4	2	3	1	2	2	2	1	2	1	1	1	2	5	6	5	2	3.5	14.4	
24-May-07	2	5	5	2	A	7	8	6	6	4	2	2	2	4	1	2	1	1	2	5	8	10	4	4	4.0	10.4	
25-May-07	5	5	4	6	A	7	8	8	228	6	4	1	1	10	28	1	2	2	4	4	5	7	4	4	15.3	228.4	
26-May-07	7	7	7	10	A	9	15	8	8	4	4	3	2	2	2	2	3	4	2	4	3	4	3	4	4.8	14.6	
27-May-07	7	3	1	3	A	2	2	1	1	1	2	2	1	2	1	1	2	4	2	3	2	5	3	4	2.4	6.9	
28-May-07	2	2	2	2	A	4	4	6	3	3	2	2	2	2	31	2	2	3	4	3	3	9	8	4	4.5	30.6	
29-May-07	3	4	5	5	A	6	12	9	7	5	8	69	5	4	16	1	1	2	3	9	6	3	3	3	8.1	69.2	
30-May-07	6	10	12	8	A	9	12	7	5	5	5	4	3	1	1	2	2	5	3	5	8	15	12	2	6.1	14.7	
31-May-07	3	4	6	3	A	15	6	16	12	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		15.7
Hourly Avg	3.2	4.3	4.7	4.0	N	7.0	7.4	6.0	13.3	7.0	5.0	4.8	2.0	5.0	4.0	5.7	1.8	2.1	2.4	3.6	3.5	3.8	3.6	3.3			
Hourly Max	11.8	14.5	16.1	12.6	0.0	34.2	20.6	15.7	228.4	101.8	41.5	69.2	5.9	59.4	30.6	115.6	3.9	5.3	6.3	14.4	11.4	14.7	11.6	12.8			

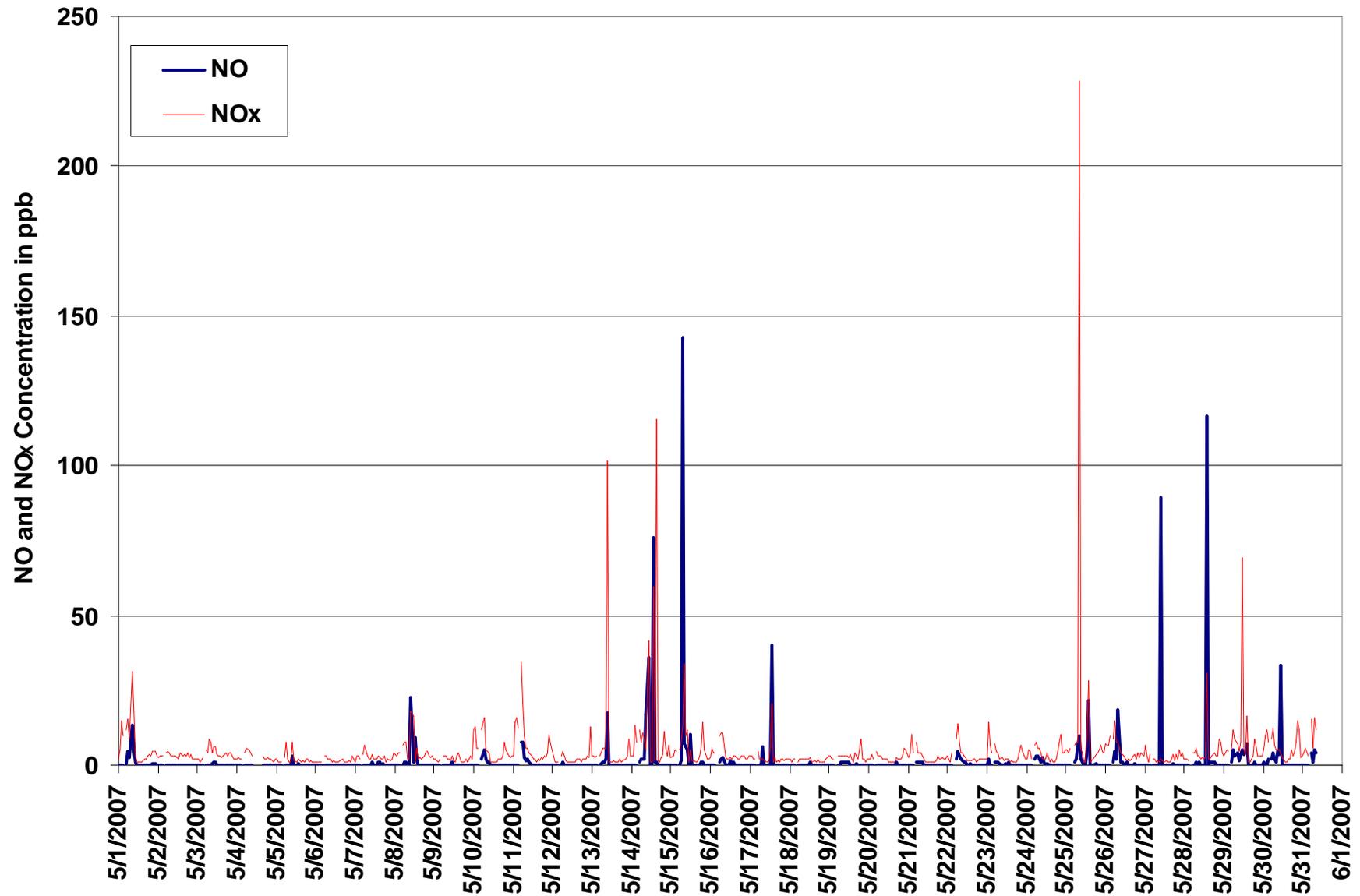


Figure 39. PASZA - Beaverlodge Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

### PASZA - Beaverlodge - Ozone Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

#### HOURLY AVERAGE TABLE

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

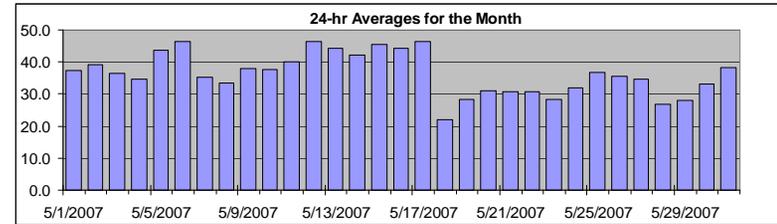
Monitoring Dates: May 1, 2007 to June 1, 2007

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

**Summary**

Number of 1-hr Exceedances:	0
Maximum 1-hr Average:	57.6 ppb 5-May 20:00 21:00
Maximum 24-hr Average:	46.5 ppb 17-May

AIC Time:	32 hrs	Operational Time:	710 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median
	54.5 51.8 44.3 37.1 29.5 19.1 13.4		36.4 ppb 37.1 ppb



**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start	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	24-hour Average	Daily Maximum
1-May-07	38	36	29	29	A	24	23	22	22	28	38	42	44	46	48	50	49	48	46	43	40	38	40	38		37.5	49.7	
2-May-07	39	38	37	37	A	36	35	35	36	37	42	42	42	43	39	40	41	40	39	39	38	40	41	40		39.1	42.8	
3-May-07	37	39	40	39	A	30	32	31	31	30	33	33	36	40	38	41	40	38	37	34	39	40	42	40		36.6	42.3	
4-May-07	42	40	38	39	A	36	37	38	38	37	34	32	31	30	29	33	36	37	33	31	32	33	30	30		34.6	41.5	
5-May-07	30	30	31	31	A	27	32	40	41	42	44	44	43	46	49	52	53	52	51	55	58	54	49	48		43.5	57.6	
6-May-07	46	44	46	43	A	41	38	43	44	45	48	51	50	48	48	48	47	48	48	45	49	49	47	50		46.4	50.9	
7-May-07	49	46	44	43	A	42	44	48	48	43	40	36	33	30	30	30	30	29	28	26	26	25	24	21		35.3	49.2	
8-May-07	18	19	19	21	A	20	20	21	24	27	30	34	42	47	44	48	47	46	47	44	40	37	37	37		33.4	47.8	
9-May-07	35	39	42	40	A	40	42	39	38	35	31	31	35	39	41	44	46	43	38	36	35	34	34	35		38.0	45.5	
10-May-07	31	25	24	22	A	14	16	21	30	36	41	43	46	47	47	48	50	50	49	43	44	46	47	48		37.8	50.5	
11-May-07	44	39	31	39	A	11	12	22	30	38	42	47	49	49	47	51	53	51	49	48	47	41	45	37		40.1	53.2	
12-May-07	47	51	51	52	A	40	36	45	49	49	50	51	50	49	48	48	48	48	48	47	44	41	40	37		46.4	51.8	
13-May-07	39	40	38	35	A	32	31	34	35	40	49	52	52	52	52	53	52	52	52	50	49	45	43	40		44.2	52.8	
14-May-07	43	38	33	24	A	23	19	30	36	46	49	51	53	51	52	52	53	53	50	47	40	43	45	38		42.1	52.8	
15-May-07	40	40	40	33	A	32	25	28	33	41	47	50	53	56	56	56	56	56	57	52	50	49	47	46		45.4	57.4	
16-May-07	45	41	39	35	A	27	22	26	40	48	49	50	52	52	53	53	51	53	52	49	47	46	45	45		44.3	53.1	
17-May-07	45	43	43	44	A	43	46	46	47	47	47	48	48	48	49	51	52	52	52	51	48	47	41	30		46.5	52.2	
18-May-07	28	27	25	24	A	22	21	19	19	19	19	19	20	20	21	21	23	26	24	23	23	23	22	20		22.1	27.7	
19-May-07	18	17	18	18	A	15	14	13	13	13	15	19	26	31	35	41	46	44	42	43	37	37	34	35	37		28.2	45.8
20-May-07	36	31	28	26	A	21	28	29	34	35	34	35	35	30	29	31	30	31	31	30	32	33	34	29		30.9	35.9	
21-May-07	25	23	20	18	A	14	17	19	22	27	32	35	37	37	38	39	39	35	37	38	37	39	38	39		30.7	39.2	
22-May-07	36	31	30	20	A	13	14	18	23	25	28	30	34	40	42	39	38	38	39	38	37	34	32	31		30.9	41.5	
23-May-07	31	26	25	30	A	27	27	30	33	32	33	33	31	29	28	26	26	26	28	29	26	24	24	24		28.2	33.5	
24-May-07	27	26	23	16	A	11	12	15	19	27	34	34	39	42	44	46	49	48	47	43	35	32	34	34		32.0	49.4	
25-May-07	32	23	28	31	A	27	26	27	30	32	39	45	45	46	46	46	47	46	46	42	36	35	35	34		36.6	47.2	
26-May-07	34	32	29	28	A	23	20	24	28	33	37	42	44	45	45	45	44	41	40	39	37	35	36	35		35.5	45.5	
27-May-07	34	33	36	35	A	30	28	33	37	38	37	36	36	35	36	35	37	36	37	37	34	29	25		34.5	37.8		
28-May-07	27	27	27	28	A	24	24	24	25	28	29	29	28	29	28	27	28	29	30	30	28	27	22	22		26.9	30.3	
29-May-07	22	22	21	21	A	16	11	15	18	23	29	C	C	A	41	41	42	41	40	38	30	28	30	31		28.0	41.6	
30-May-07	30	21	15	14	A	18	18	23	26	31	37	43	44	45	47	49	49	43	40	36	33	34	31	39		33.2	48.7	
31-May-07	36	32	34	35	A	27	28	30	33	41	41	41	42	44	45	46	44	45	42	39	37	40	41	34		38.1	45.8	
Hourly Avg	35.0	32.9	31.6	30.7	N	26.0	25.7	28.7	31.6	34.7	37.5	39.5	40.8	41.7	41.9	43.1	43.3	42.8	42.0	40.0	38.4	37.4	36.8	35.4				
Hourly Max	49.2	51.3	50.8	51.8	0.0	43.4	46.2	48.3	48.7	48.7	50.1	51.9	53.5	55.9	55.9	56.2	55.8	56.0	57.4	54.6	57.6	53.5	49.4	49.9				

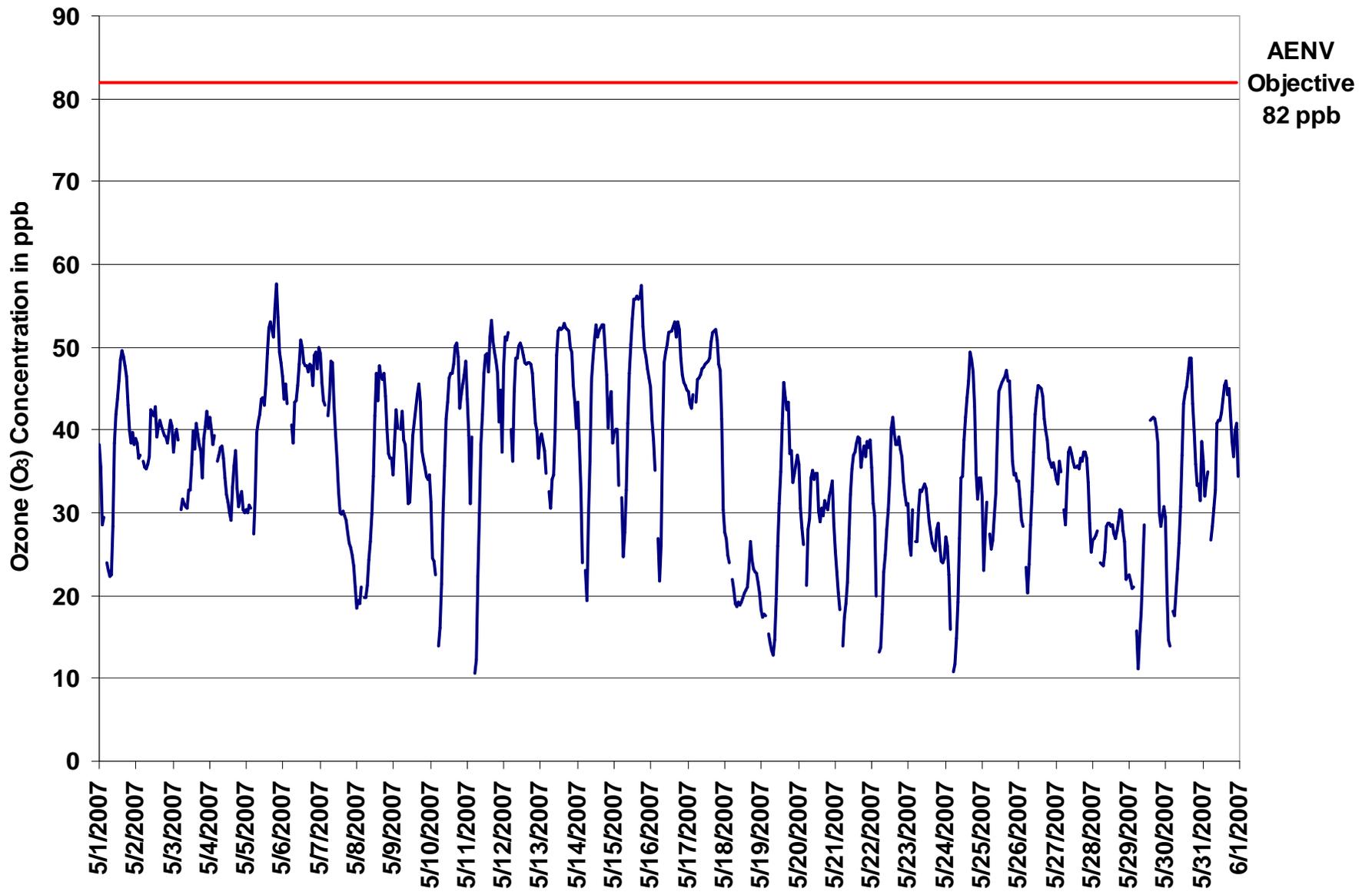


Figure 40. PASZA - Beaverlodge Ozone 1-hr Average Monthly Trend

Station: Beaverlodge  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

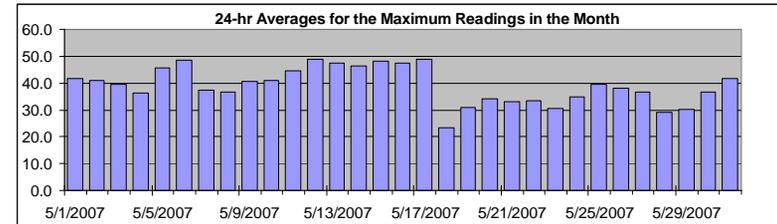
**Ozone (O<sub>3</sub>)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	59.9	ppb	5-May	20:00 21:00
Maximum 24-hr Value:	48.9	ppb	17-May	

AIC Time:	32 hrs	Operational Time:	710 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	57.4	53.7	47.2	39.8	32.0	21.2	16.5	39.1 ppb	39.8 ppb



**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-07	39	38	38	34	A	34	30	28	33	36	42	45	45	49	51	51	50	49	49	46	44	42	41	41	41.5	51.0
2-May-07	41	41	39	38	A	38	37	36	37	39	44	43	43	45	42	42	43	43	41	41	41	42	42	42	40.9	45.4
3-May-07	40	41	41	42	A	35	34	38	35	33	36	37	39	44	40	43	42	41	39	36	43	44	45	43	39.5	45.2
4-May-07	43	41	39	40	A	38	39	39	40	38	36	34	33	31	32	35	38	38	37	33	33	34	31	31	36.4	43.2
5-May-07	31	31	32	32	A	29	40	41	42	43	46	45	45	48	51	54	54	54	53	59	60	56	52	50	45.6	59.9
6-May-07	49	46	47	46	A	43	42	46	45	47	50	53	52	50	49	49	49	50	50	47	51	51	50	51	48.4	52.6
7-May-07	51	49	46	46	A	44	47	52	50	47	42	39	36	31	31	32	30	30	30	27	27	26	26	23	37.4	51.6
8-May-07	20	22	21	23	A	22	23	24	26	28	32	39	45	54	53	53	50	48	49	48	43	39	40	40	36.5	53.8
9-May-07	39	43	45	42	A	44	44	41	40	38	34	34	38	42	45	47	47	46	41	38	38	37	35	36	40.5	47.4
10-May-07	34	28	26	24	A	17	22	24	37	41	44	47	48	48	49	51	52	53	52	48	49	49	48	50	40.9	52.5
11-May-07	49	48	39	46	A	29	19	25	36	42	44	49	51	52	49	55	55	53	51	50	48	47	50	42	44.7	55.4
12-May-07	53	52	53	55	A	43	38	50	51	50	51	52	52	50	50	50	50	50	49	49	46	42	42	41	48.7	54.8
13-May-07	43	43	43	38	A	35	35	36	36	46	53	54	55	54	54	55	55	54	54	53	51	51	45	46	47.4	54.9
14-May-07	47	42	43	32	A	35	23	37	42	50	51	52	54	53	53	54	54	54	54	49	45	46	47	45	46.3	54.4
15-May-07	43	43	42	40	A	33	30	31	39	46	49	52	58	57	57	57	57	58	60	57	52	51	49	49	48.3	59.5
16-May-07	47	47	41	39	A	30	27	29	49	51	51	53	53	53	54	56	54	55	55	52	50	47	47	47	47.3	56.0
17-May-07	46	45	44	47	A	46	48	48	49	49	49	49	49	50	51	53	53	53	54	52	52	52	50	34	48.9	53.9
18-May-07	30	29	27	25	A	23	22	20	20	20	20	21	21	21	21	22	26	29	25	24	24	24	23	22	23.4	29.9
19-May-07	20	18	19	18	A	16	16	14	14	17	25	30	34	37	48	48	46	45	46	43	40	37	37	41	30.8	47.9
20-May-07	41	32	30	28	A	25	30	31	38	37	37	38	39	32	30	34	32	35	36	34	33	39	38	32	34.0	40.8
21-May-07	29	26	23	21	A	17	20	21	26	30	35	37	38	39	40	40	41	37	40	41	40	42	40	40	33.1	41.5
22-May-07	39	35	32	24	A	15	17	19	26	26	31	34	36	42	43	42	41	40	41	40	38	35	33	33	33.3	43.3
23-May-07	32	32	30	33	A	29	30	34	35	35	35	35	33	31	29	28	28	27	29	30	29	27	27	26	30.6	35.4
24-May-07	28	28	25	22	A	13	14	18	22	32	37	37	43	43	47	50	52	52	49	47	38	34	35	35	34.8	51.8
25-May-07	36	28	32	32	A	30	28	29	32	36	44	46	47	47	48	48	50	49	49	46	40	38	36	34	39.4	49.6
26-May-07	35	33	31	31	A	26	26	28	32	36	41	44	47	48	47	47	46	44	42	41	40	37	38	37	38.2	48.4
27-May-07	36	36	39	38	A	33	32	36	39	39	39	38	37	37	38	38	39	38	39	39	38	36	33	27	36.7	39.5
28-May-07	28	28	29	29	A	26	25	25	29	30	30	31	30	30	29	28	29	30	32	32	30	30	28	25	29.0	32.3
29-May-07	24	23	22	23	A	19	14	17	23	26	33	C	C	A	42	42	43	43	42	42	33	29	30	31	30.1	43.1
30-May-07	32	28	20	17	A	20	23	25	29	37	41	46	46	48	49	50	51	52	42	38	35	37	38	40	36.8	52.2
31-May-07	41	37	38	38	A	34	35	35	41	42	42	43	44	46	48	49	46	48	46	42	39	42	43	40	41.7	48.9
Hourly Avg	37.6	35.9	34.7	33.7	N	29.8	29.3	31.5	35.2	37.8	40.2	41.9	43.2	43.9	44.2	45.3	45.3	45.0	44.4	42.7	41.0	40.1	39.4	37.9		
Hourly Max	53.0	52.4	52.5	54.8	0.0	46.4	47.5	51.6	50.5	50.7	53.0	54.1	57.7	57.3	57.1	57.4	57.4	58.1	59.5	58.6	59.9	56.4	52.0	51.4		

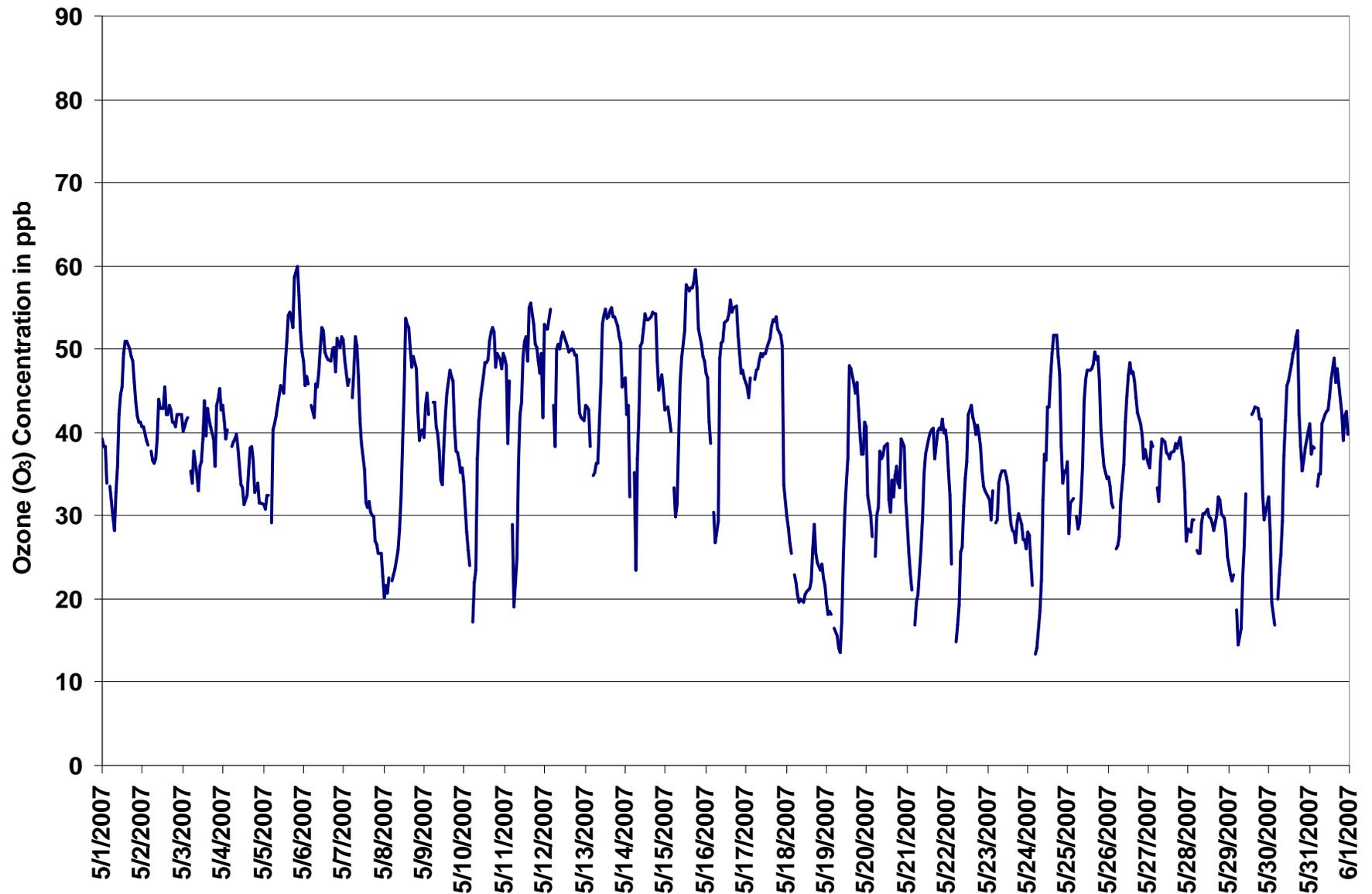
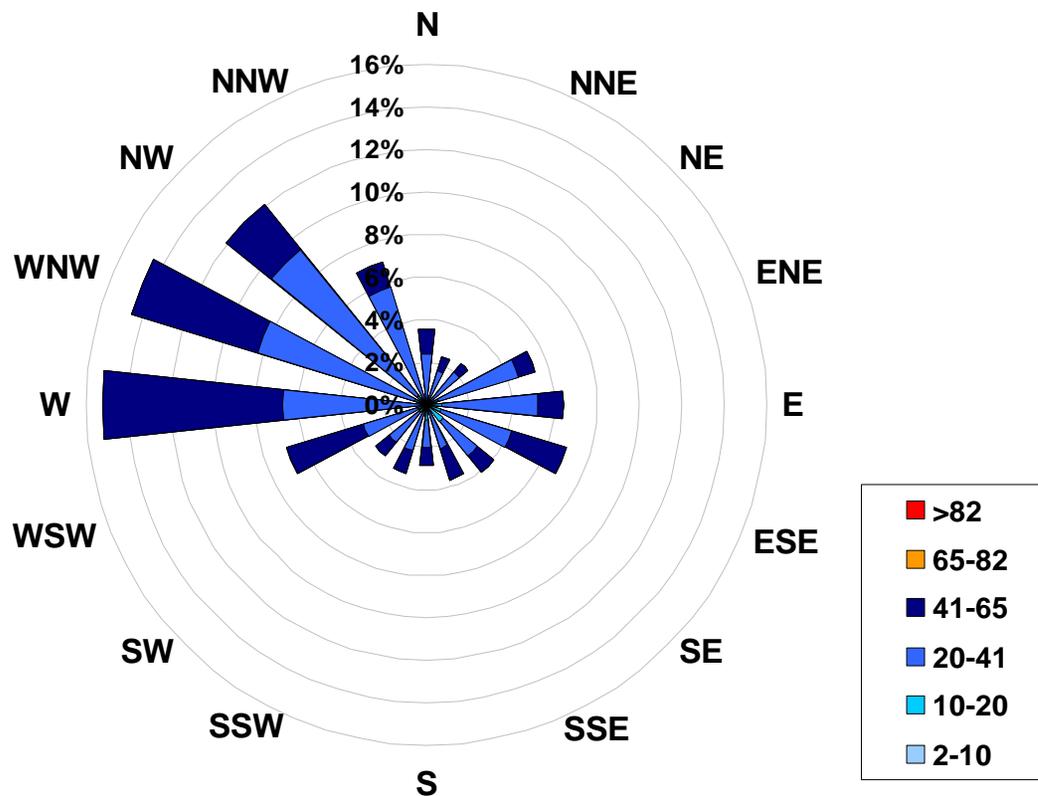


Figure 41. PASZA - Beaverlodge Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Beaverlodge Site for May 2007



Calms: 0%

Frequency Distribution of O <sub>3</sub> in ppb			Frequency (hrs)
Range			
2.0	< 10		0
10	to 20		46
20	to 41		416
41	to 65		248
65	to 82		0
	> 82		0
Total Non-Zero Values			710

## PASZA - Beaverlodge - Ozone Eight Hour Average Summary

Station: Beaverlodge  
Station Owner: PASZA

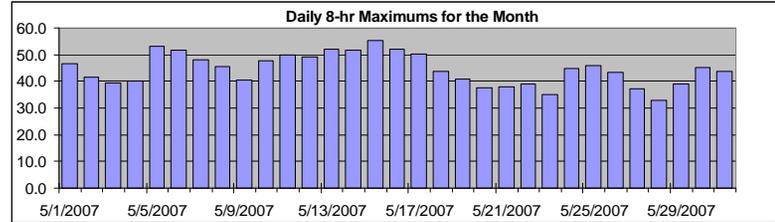
### EIGHT HOUR RUNNING AVERAGE TABLE

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

Monitoring Dates: May 1, 2007 to June 1, 2007

Objective Limit: Alberta Environment: 8-hr 65 ppb

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	55.4 ppb 15-May 19:00 20:00



Percentile	99	95	75	50	25	5	1
	52.8	49.8	43.1	36.6	30.1	20.5	17.5

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 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-May-07	40	39	38	36	36	33	31	29	26	25	27	29	30	33	36	40	43	46	47	47	46	45	44	43	46.7
2-May-07	42	40	39	38	38	38	37	37	36	36	37	38	38	39	40	40	41	41	41	41	40	40	40	40	41.6
3-May-07	40	39	39	39	40	38	37	36	35	33	32	31	32	33	34	35	36	37	38	38	38	38	39	39	39.6
4-May-07	39	39	39	40	40	40	39	39	38	38	37	36	35	35	34	33	33	33	33	33	33	33	33	33	40.3
5-May-07	32	31	31	31	31	30	30	32	33	35	37	39	39	41	44	45	47	48	49	50	52	53	53	52	53.0
6-May-07	52	51	50	48	47	45	44	43	43	43	44	44	45	46	47	48	48	48	48	48	48	48	48	48	51.6
7-May-07	48	48	47	47	47	46	45	45	45	44	44	43	42	40	38	36	34	32	31	29	29	28	27	26	48.2
8-May-07	25	23	22	22	21	20	20	20	21	22	23	25	27	31	34	37	40	42	44	45	45	44	43	42	45.4
9-May-07	40	39	39	38	38	38	39	40	40	42	38	37	36	36	36	37	38	39	40	40	40	40	39	38	40.4
10-May-07	36	34	32	30	29	26	24	22	22	23	26	29	31	35	39	42	45	47	48	47	47	47	47	47	47.6
11-May-07	46	45	43	42	42	37	32	28	26	26	28	29	31	36	41	44	47	49	50	50	49	48	48	46	49.8
12-May-07	46	46	46	46	46	46	45	46	46	46	46	46	46	47	49	49	49	49	49	48	47	46	45	44	49.1
13-May-07	43	42	40	39	38	37	36	35	35	36	39	41	43	46	48	50	52	52	52	52	52	51	50	48	52.2
14-May-07	47	45	43	40	38	35	32	30	29	30	32	36	38	42	46	49	51	52	52	51	50	49	48	46	51.8
15-May-07	44	43	42	40	40	38	35	34	33	33	34	36	39	42	45	49	52	54	55	55	55	54	53	52	55.4
16-May-07	50	49	46	44	43	40	36	34	33	34	35	37	39	42	46	50	51	52	52	52	51	50	50	48	52.0
17-May-07	48	46	45	45	44	44	44	44	45	45	46	46	47	47	48	48	49	49	50	50	50	50	49	47	50.3
18-May-07	44	41	37	34	32	28	25	24	22	21	20	20	20	19	19	20	20	21	22	22	23	23	23	23	43.7
19-May-07	22	21	21	20	19	18	17	16	16	15	15	17	18	21	24	28	32	36	39	40	41	41	40	39	40.7
20-May-07	38	36	34	33	32	31	30	28	28	29	30	31	31	33	33	33	32	32	31	31	31	31	31	31	37.7
21-May-07	31	30	28	27	26	23	21	20	19	20	21	24	25	28	31	34	36	37	37	38	38	38	38	38	37.8
22-May-07	37	37	36	34	33	29	26	23	21	20	20	22	23	27	30	33	35	36	38	39	39	38	37	36	38.9
23-May-07	35	34	32	31	30	29	28	28	28	29	30	31	31	31	31	31	30	29	28	28	27	26	26	26	35.0
24-May-07	26	26	25	24	23	22	20	18	17	17	19	22	24	28	32	36	39	42	44	45	44	43	42	40	44.7
25-May-07	38	35	33	31	31	30	29	28	27	29	30	32	34	36	39	41	43	45	46	46	44	43	42	40	45.9
26-May-07	38	37	34	33	32	31	29	27	26	27	28	30	31	34	37	40	42	43	43	43	42	41	40	38	43.3
27-May-07	37	36	36	35	35	34	33	33	33	34	34	34	35	35	36	36	36	36	36	36	36	36	35	34	37.1
28-May-07	33	32	30	29	28	27	26	26	25	26	26	26	26	27	27	28	28	28	28	29	29	28	28	27	32.8
29-May-07	26	25	24	23	22	21	19	18	18	18	19	N	N	N	N	N	N	N	N	N	39	38	36	35	39.1
30-May-07	34	31	28	25	24	22	21	20	19	21	24	28	30	33	37	40	43	45	45	44	43	41	39	38	45.0
31-May-07	36	35	34	34	34	33	33	32	31	33	34	35	35	38	40	42	43	44	44	43	43	42	42	40	43.6

Hourly Max    51.6   50.6   49.9   48.4   47.1   46.2   45.3   46.0   46.2   45.8   46.0   46.5   46.7   47.3   48.7   49.6   51.9   53.8   55.1   55.4   54.9   54.0   53.0   52.5

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

Station: Beaverlodge  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

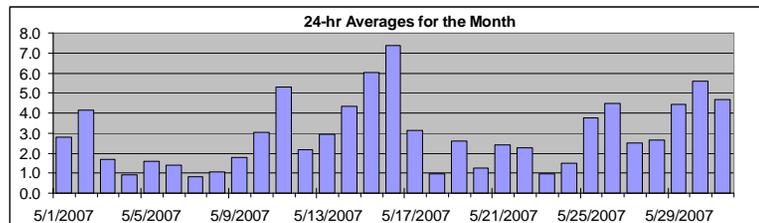
### Particulate Matter (PM<sub>2.5</sub>)

Monitoring Dates: May 1, 2007 to June 1, 2007

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:	13.4 µg/m <sup>3</sup> 15-May 19:00 20:00
Maximum 24-hr Value:	7.4 µg/m <sup>3</sup> 16-May

AIC Time:	0 hrs	Operational Time:	727 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	98.3%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	11.8	7.8	4.5	2.4	0.8	0.0	0.0	2.9 2 µg/m <sup>3</sup>	2.5 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
1-May-07	3	4	4	4	2	2	3	3	5	2	0	0	0	0	1	2	0	5	4	6	5	4	4	4	2.8	5.5
2-May-07	1	4	4	5	5	5	4	5	5	3	4	4	5	3	7	5	5	5	5	3	4	5	2	1	4.1	6.5
3-May-07	3	3	3	3	4	3	2	3	3	1	0	1	2	2	1	2	1	1	1	2	0	0	0	0	1.7	3.8
4-May-07	0	0	1	0	0	0	1	2	2	1	0	D	D	0	0	4	5	4	0	1	0	0	0	0	0.9	4.6
5-May-07	0	0	0	1	1	0	0	2	1	1	0	1	3	0	2	0	3	2	4	3	3	4	2	4	1.6	4.0
6-May-07	2	3	2	3	1	1	2	0	0	1	0	1	2	1	0	0	1	3	3	1	2	4	0	2	1.4	3.8
7-May-07	1	2	1	2	2	0	2	0	0	0	0	0	4	0	0	0	0	0	1	0	2	0	0	0	0.8	3.9
8-May-07	0	0	0	1	0	0	0	0	0	0	0	0	1	3	2	3	2	1	1	4	2	2	2	2	1.1	3.7
9-May-07	2	2	3	1	2	2	2	2	2	1	2	0	0	0	4	3	0	2	3	3	1	1	2	3	1.8	4.0
10-May-07	2	4	5	5	4	3	4	0	1	0	0	0	0	2	2	3	2	4	5	5	6	5	6	6	3.1	5.8
11-May-07	7	5	6	6	7	7	6	6	6	5	3	4	2	3	3	4	3	4	4	4	6	10	6	9	5.3	9.8
12-May-07	9	4	2	3	3	3	3	0	2	1	0	0	0	2	0	0	0	1	1	2	3	6	3	4	2.2	9.2
13-May-07	3	3	2	4	3	2	3	3	2	D	0	0	0	1	2	3	4	4	5	4	5	7	6	6	2.9	6.5
14-May-07	7	4	7	7	4	5	6	5	7	0	0	0	1	5	3	3	3	4	5	5	7	6	4	7	4.3	7.1
15-May-07	6	7	5	5	6	4	6	5	7	2	1	1	6	5	6	4	6	5	10	13	11	8	7	8	6.0	13.4
16-May-07	8	12	12	13	12	13	13	11	1	0	2	4	8	5	2	2	8	5	5	8	9	8	8	7	7.4	13.4
17-May-07	6	5	3	4	2	2	4	2	0	0	0	0	0	0	0	0	1	4	4	5	9	9	7	7	3.1	9.2
18-May-07	1	0	1	1	1	1	1	1	1	0	1	0	0	1	0	0	0	0	0	1	2	2	3	4	1.0	4.1
19-May-07	3	2	2	3	2	2	4	0	1	4	1	1	0	2	0	D	0	0	4	7	11	6	1	1	2.6	10.6
20-May-07	0	1	2	2	2	1	1	2	0	1	0	0	1	0	1	0	1	0	1	4	3	2	2	3	1.2	4.0
21-May-07	3	2	3	2	3	3	2	2	2	0	0	0	0	2	0	2	0	6	2	2	7	6	5	4	2.4	6.9
22-May-07	5	4	5	4	4	3	1	1	1	2	6	3	3	2	1	0	0	0	0	1	0	3	3	1	2.2	5.9
23-May-07	1	1	3	1	0	1	0	0	1	0	0	1	1	2	2	0	0	1	0	1	0	2	1	2	1.0	3.2
24-May-07	1	0	1	1	1	2	0	0	0	0	0	0	D	D	D	1	0	3	3	0	2	5	7	5	1.5	6.7
25-May-07	5	5	1	2	2	2	3	3	3	0	D	1	5	5	3	3	1	2	3	2	5	12	9	7	3.8	11.9
26-May-07	9	8	8	7	6	6	8	6	2	D	5	1	4	4	4	3	0	2	2	1	3	4	6	5	4.5	8.7
27-May-07	6	4	1	2	2	1	0	0	0	D	D	D	0	5	0	0	0	3	4	3	5	12	5	2.5	11.6	
28-May-07	4	2	1	2	2	2	1	1	1	3	0	2	1	2	2	3	3	3	3	4	4	5	6	8	2.7	7.5
29-May-07	8	4	4	5	6	4	3	2	5	D	2	C	C	C	C	3	3	2	3	5	5	6	8	7	4.4	8.0
30-May-07	7	8	10	7	7	6	7	6	5	3	3	1	2	2	2	4	5	6	3	9	7	6	11	7	5.6	10.5
31-May-07	8	8	9	5	6	8	7	7	6	0	3	5	2	3	4	3	1	1	3	5	6	4	6	4	4.7	8.9
Hourly Avg	3.9	3.6	3.6	3.6	3.3	3.1	3.2	2.6	2.5	1.1	1.2	1.1	2.0	1.9	2.1	1.9	1.9	2.6	2.9	3.6	4.3	4.6	4.5	4.2		
Hourly Max	9.2	11.9	11.9	13.4	12.3	12.7	12.8	11.3	7.3	5.1	5.9	4.9	7.9	5.5	6.5	4.7	7.8	6.4	9.9	13.4	10.7	11.9	11.6	8.8		

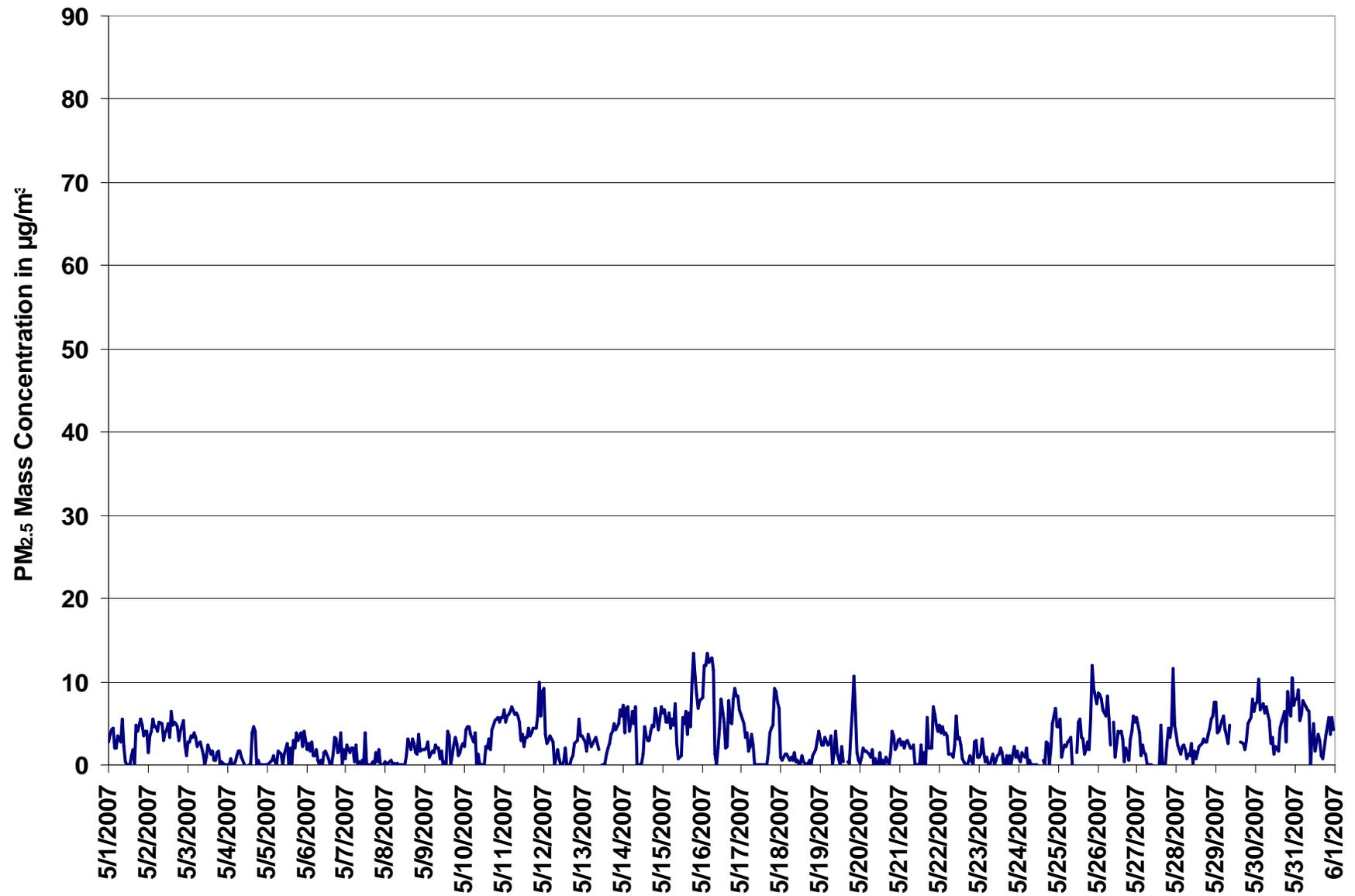


Figure 42. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Beaverlodge  
 Station Owner: PASZA

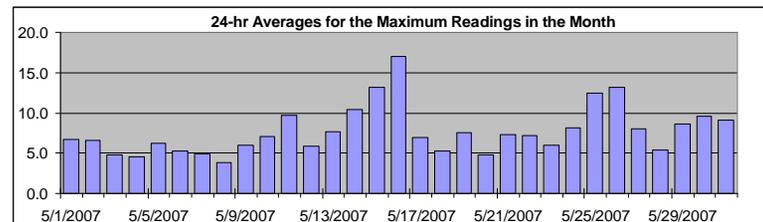
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

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

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Average:	34.0	µg/m <sup>3</sup>	15-May	19:00 20:00
Maximum 24-hr Value:	17.0	µg/m <sup>3</sup>	16-May	



AIC Time:	0 hrs	Operational Time:	727 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	98.3%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	23.6	16.4	9.4	6.7	4.8	2.3	0.6	7.7	7 µg/m <sup>3</sup>
									7.2 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**

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-07	6	7	11	9	7	8	9	8	10	6	4	1	1	2	7	5	6	9	10	10	7	5	5	7	6.7	10.5
2-May-07	4	6	7	8	9	7	7	8	8	6	6	7	7	7	8	6	7	7	6	6	6	7	5	5	6.6	8.5
3-May-07	6	6	7	6	7	6	5	6	5	5	5	4	4	3	6	5	5	4	4	5	3	4	3	2	4.8	7.4
4-May-07	3	3	5	3	4	4	4	10	6	4	7	D	D	2	5	6	8	7	3	3	4	2	2	2	4.5	10.3
5-May-07	3	3	4	5	5	4	4	6	6	6	5	10	7	5	7	5	5	6	9	7	8	9	8	9	6.2	10.5
6-May-07	6	7	6	7	6	6	6	3	3	3	2	6	7	6	4	3	5	9	7	3	6	6	5	6	5.3	8.6
7-May-07	6	6	6	5	7	4	6	6	6	6	3	0	32	2	1	2	2	2	3	2	3	3	3	3	5.0	31.6
8-May-07	4	5	5	3	5	3	3	3	2	1	0	0	0	3	9	4	4	5	4	6	7	5	6	5	3.8	9.3
9-May-07	6	6	7	5	7	6	7	7	8	6	5	4	5	2	11	13	3	7	5	5	5	5	5	6	6.0	13.1
10-May-07	6	9	8	8	9	7	9	6	6	1	1	6	5	7	7	8	6	7	10	12	9	8	8	7	7.1	12.5
11-May-07	11	14	8	10	12	11	9	9	11	8	5	7	5	6	6	12	8	8	8	10	16	12	17	9.7	16.7	
12-May-07	14	8	5	7	8	8	7	3	7	6	6	5	6	5	2	2	3	3	3	4	5	8	9	8	5.9	13.9
13-May-07	9	9	10	10	9	7	9	9	7	6	D	1	2	3	6	9	7	7	9	7	7	7	8	16	7.6	15.9
14-May-07	13	10	16	13	12	12	13	14	17	2	1	5	8	15	12	11	9	10	13	8	11	8	6	12	10.4	16.7
15-May-07	9	9	9	10	9	10	12	11	12	7	4	6	15	14	16	15	13	14	28	34	25	12	11	13	13.2	34.0
16-May-07	13	16	14	14	14	15	16	14	11	15	16	18	26	33	28	19	19	15	18	23	17	14	12	8	17.0	33.3
17-May-07	9	7	6	6	6	6	8	6	5	2	2	0	1	6	7	3	8	10	10	11	14	12	13	10	7.0	13.8
18-May-07	7	5	7	6	6	5	5	6	6	5	5	4	4	6	5	4	3	4	3	5	5	6	7	8	5.3	8.0
19-May-07	6	7	5	7	7	7	6	5	4	6	5	7	2	11	5	D	8	8	15	16	18	9	5	5	7.5	17.7
20-May-07	4	4	5	5	4	5	5	6	3	3	4	4	6	3	3	3	5	10	6	8	5	7	5	6	4.8	10.0
21-May-07	7	6	6	5	7	8	6	6	6	4	3	5	5	10	6	13	8	10	7	7	12	10	8	7	7.2	12.7
22-May-07	10	9	9	9	10	8	5	7	3	6	12	9	9	7	5	5	4	3	4	9	3	9	8	10	7.2	12.2
23-May-07	8	8	8	9	5	7	5	5	7	6	6	7	4	16	7	5	1	4	3	3	3	5	6	6	5.9	16.2
24-May-07	6	6	7	6	7	7	4	4	4	4	2	1	D	D	D	14	12	17	13	16	9	11	12	6	8.1	17.2
25-May-07	8	11	7	6	7	6	9	7	7	4	D	18	18	24	16	13	17	13	17	23	12	19	16	9	12.4	23.7
26-May-07	12	11	10	9	9	11	20	14	7	D	22	13	18	16	17	12	16	17	19	15	7	9	10	7	13.2	22.4
27-May-07	8	6	3	4	5	3	2	0	2	3	D	D	D	1	18	19	18	8	15	10	9	9	16	9	8.0	18.9
28-May-07	6	5	5	4	5	6	4	5	4	5	7	4	4	4	4	5	7	6	6	6	5	7	9	10	5.4	9.9
29-May-07	10	8	9	11	11	11	10	6	9	D	13	C	C	C	7	5	4	6	7	9	7	9	9	9	8.6	13.4
30-May-07	11	10	12	9	9	8	9	8	7	7	7	5	5	6	7	8	9	20	6	15	15	12	17	9	9.6	19.9
31-May-07	11	10	12	7	8	11	12	13	9	4	11	10	4	7	7	7	6	6	7	12	15	8	10	8	9.1	15.3
Hourly Avg	7.7	7.6	7.7	7.4	7.6	7.3	7.5	7.2	6.7	5.1	6.0	5.9	7.8	8.0	8.3	8.1	7.6	8.4	9.0	9.9	8.8	8.4	8.4	7.9		
Hourly Max	13.9	16.5	15.6	14.5	14.1	14.8	20.4	14.3	16.7	14.7	22.4	18.2	31.6	33.3	28.0	19.0	18.8	19.9	28.1	34.0	24.7	19.0	17.2	16.7		

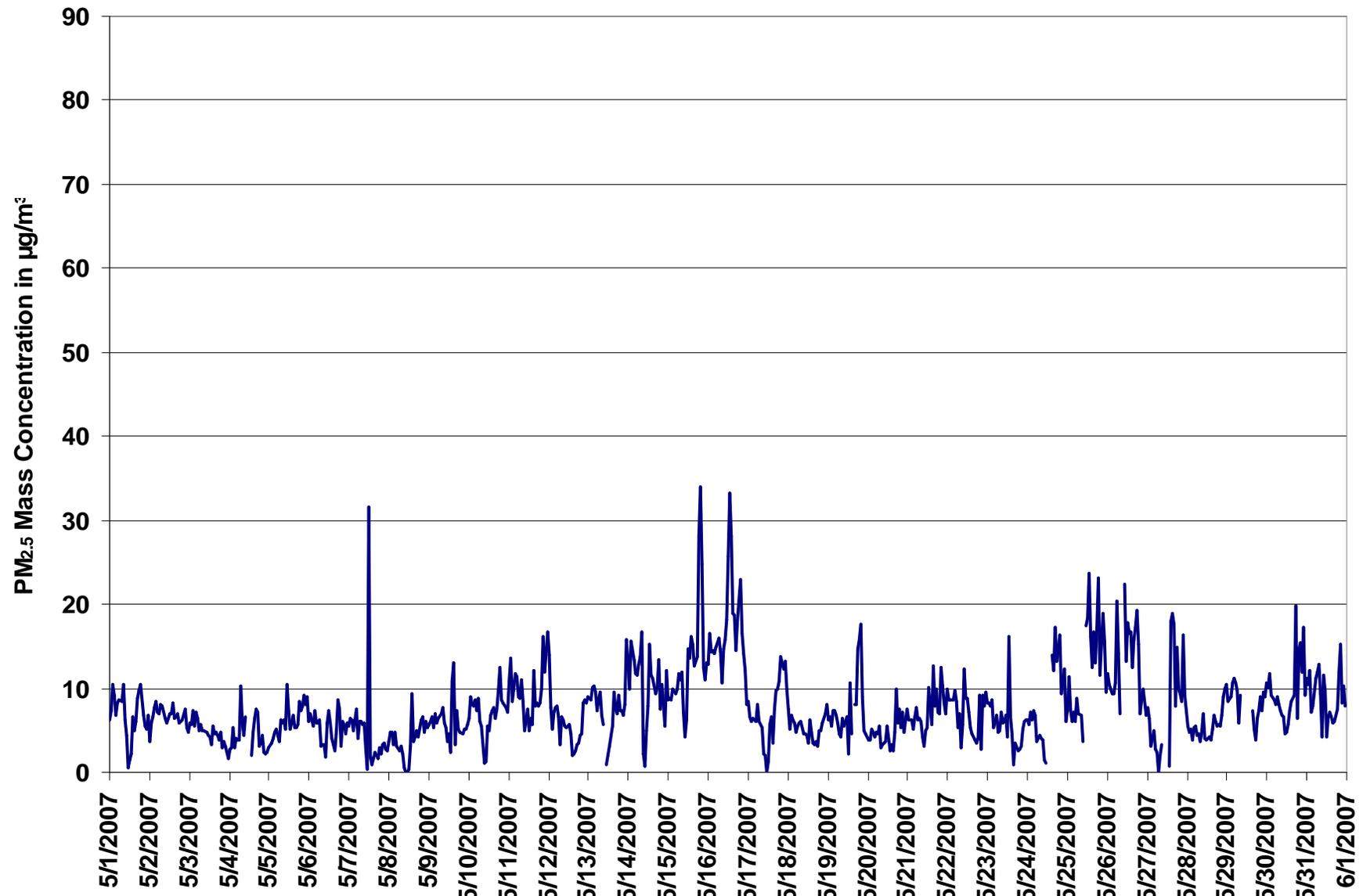
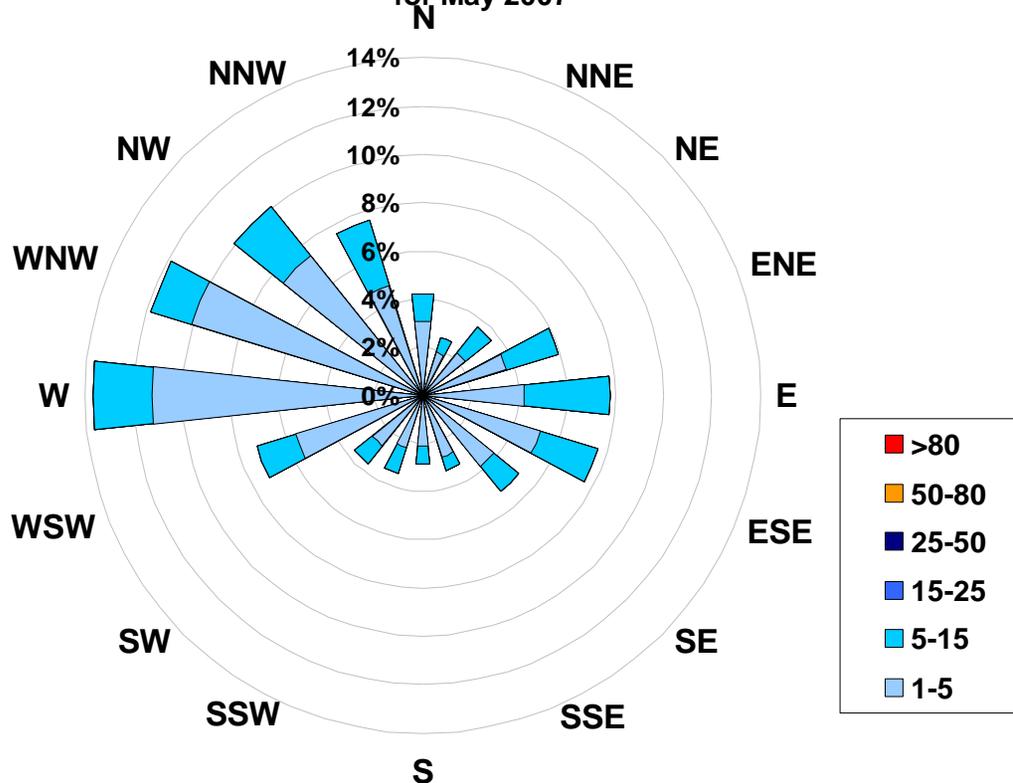


Figure 43. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Beaverlodge Site for May 2007**



**Calms: 0%**

Frequency Distribution of PM <sub>2.5</sub> in µg/m <sup>3</sup>			Frequency (hrs)
Range			
1.0	<	5	582
5	to	15	145
15	to	25	0
25	to	50	0
50	to	80	0
	>	80	0
Total Non-Zero Values			727

## PASZA - Beaverlodge - Relative Humidity Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

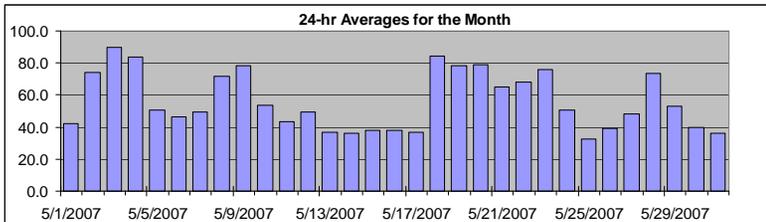
### HOURLY AVERAGE TABLE

### Relative Humidity (RH)

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Average:	95.5 %	10-May	5:00 6:00
Maximum 24-hr Value:	89.9 %	3-May	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	94.5	91.4	77.9	55.2	35.2	21.5	18.3	56.2 %	55.2 %

**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	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00
1-May-07	39	44	49	50	52	62	59	60	49	45	33	32	31	30	30	29	29	33	35	38	42	45	45	49	42.1	61.5	
2-May-07	49	53	61	65	68	69	71	70	69	67	55	57	63	63	81	86	88	91	91	92	93	92	89	89	73.9	93.3	
3-May-07	92	92	91	92	94	94	95	95	93	90	86	84	82	80	83	88	89	88	87	92	92	93	92	92	89.9	94.8	
4-May-07	92	91	90	90	91	91	90	88	85	83	77	74	72	71	71	70	81	84	87	89	88	86	86	84	83.9	92.1	
5-May-07	82	81	82	85	86	87	74	58	53	48	40	36	39	36	32	28	28	28	29	27	31	36	41	46	50.6	86.5	
6-May-07	52	58	56	58	56	56	61	52	52	50	44	38	42	39	36	36	40	44	47	48	36	34	37	32	46.1	60.5	
7-May-07	33	40	43	47	55	58	52	47	48	47	46	46	43	43	43	45	43	43	47	56	60	64	68	73	49.6	73.4	
8-May-07	77	77	79	77	76	75	73	69	64	57	51	47	39	44	61	68	78	83	87	87	89	88	86	83	71.5	89.4	
9-May-07	81	77	88	90	91	90	92	91	88	84	81	72	65	57	71	76	54	64	76	72	75	79	80	80	78.1	91.5	
10-May-07	82	86	90	93	94	95	92	71	59	47	38	35	32	31	32	33	30	30	33	38	36	39	38	36	53.7	95.5	
11-May-07	43	42	49	50	52	79	77	67	56	47	43	41	36	33	30	26	24	26	27	29	33	45	38	45	43.3	79.2	
12-May-07	59	77	82	83	87	91	87	62	50	46	37	31	29	28	26	24	24	24	24	27	35	44	50	50	49.1	91.4	
13-May-07	52	52	57	62	63	62	56	52	48	38	24	19	19	20	20	18	20	21	23	26	27	32	34	39	36.8	63.2	
14-May-07	33	44	49	63	64	64	64	47	35	26	23	22	21	22	20	20	19	21	25	30	35	38	37	47	36.3	64.2	
15-May-07	49	49	44	57	61	62	62	57	47	33	29	26	24	22	21	21	24	24	26	31	35	34	35	37	38.0	62.1	
16-May-07	40	44	49	56	61	65	67	53	34	25	25	24	22	21	21	22	23	23	24	30	36	45	48	52	37.9	67.2	
17-May-07	52	56	53	46	44	40	34	31	29	27	25	23	21	20	20	18	19	22	26	31	39	57	68	81	36.7	80.6	
18-May-07	79	77	78	81	80	79	78	86	87	87	85	86	87	83	84	84	84	87	90	90	90	89	88	90	84.6	89.8	
19-May-07	90	89	89	91	92	94	93	89	84	79	69	63	61	70	70	51	55	58	53	66	95	94	89	91	78.2	94.9	
20-May-07	91	92	94	95	95	95	93	89	86	83	81	81	75	69	68	60	69	60	61	66	68	72	76	81	79.1	95.0	
21-May-07	84	89	89	90	90	89	83	82	77	66	53	50	44	49	40	37	38	52	45	43	57	67	77	73	65.2	90.5	
22-May-07	72	80	82	89	91	85	78	72	64	56	65	70	65	63	60	64	58	57	50	51	51	62	70	74	67.9	91.4	
23-May-07	75	76	78	90	95	91	83	76	71	76	77	78	76	72	80	71	64	61	62	62	70	78	82	84	76.0	95.3	
24-May-07	81	81	87	92	94	87	77	67	59	49	41	42	35	29	26	23	19	21	23	27	35	43	41	42	50.9	94.3	
25-May-07	48	64	59	45	45	45	44	44	38	33	25	19	19	19	18	17	16	17	17	23	30	33	35	34	32.7	64.1	
26-May-07	35	37	39	42	44	47	49	48	38	35	31	25	25	26	28	28	32	34	36	38	45	54	57	62	39.0	61.9	
27-May-07	65	65	63	71	76	75	72	57	47	41	36	35	34	32	30	30	30	30	31	32	35	40	60	68	48.1	75.7	
28-May-07	72	76	76	77	84	81	80	81	78	76	73	68	65	62	64	65	64	66	67	68	70	76	84	88	73.3	87.7	
29-May-07	88	88	89	91	94	86	80	68	58	47	38	32	30	30	28	28	27	28	27	31	41	48	49	51	53.1	93.8	
30-May-07	55	68	76	81	77	67	60	46	42	34	26	20	20	21	18	19	21	22	22	28	31	31	38	36	40.0	81.1	
31-May-07	43	52	51	50	57	56	49	44	42	34	34	32	29	26	24	22	22	21	23	26	27	29	31	38	35.9	57.4	
Hourly Avg	64.0	67.7	69.7	72.6	74.6	74.7	71.7	65.2	59.1	53.4	48.2	45.4	43.3	42.3	43.1	42.2	42.3	43.9	45.2	48.2	52.5	57.1	59.7	62.2			
Hourly Max	92.4	92.4	94.1	94.6	95.3	95.5	94.6	94.8	93.4	90.5	87.0	85.4	86.2	86.8	83.4	88.4	89.3	91.1	91.2	92.4	94.9	93.6	91.9	92.3			

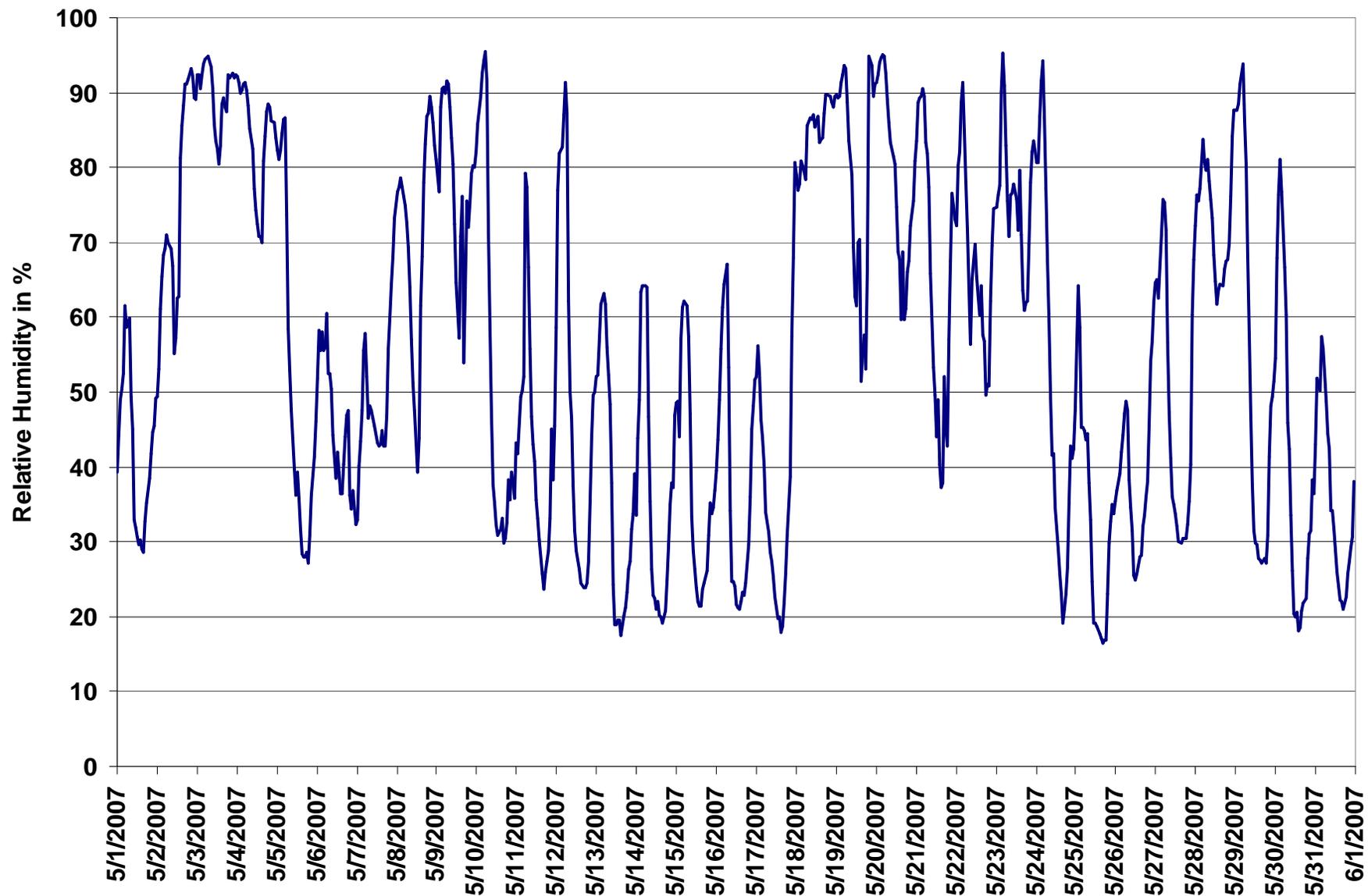


Figure 44. PASZA - Beaverlodge Relative Humidity 1-hr Average Monthly Trend

## PASZA - Beaverlodge - Temperature Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

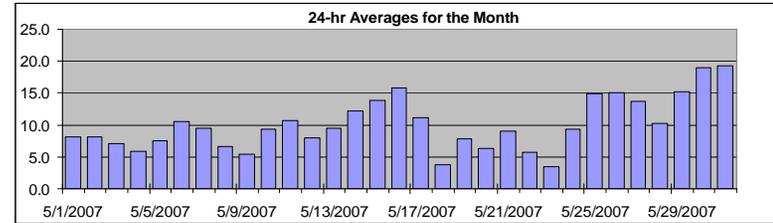
### HOURLY AVERAGE TABLE

### Ambient Temperature (T)

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Average:	26.7 °C	30-May	15:00 16:00
Maximum 24-hr Value:	19.2 °C	31-May	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	25.4	20.9	13.2	9.1	5.6	2.6	0.6	10.1 °C	9.1 °C

**Status Flag Characters**

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

Day	Mountain Standard Time																								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-May-07	5	5	4	4	3	2	3	4	6	7	10	11	11	12	12	13	13	12	11	11	10	9	9	8	8.2	13.3
2-May-07	8	8	7	7	7	7	7	7	8	9	11	11	11	11	9	8	8	8	8	8	7	7	7	7	8.2	11.3
3-May-07	7	7	7	7	7	7	7	7	7	7	8	8	8	8	9	8	7	8	8	7	6	6	6	6	7.1	8.9
4-May-07	5	5	4	4	4	4	4	4	5	5	6	7	7	8	8	8	8	7	6	6	6	5	5	5	5.8	8.2
5-May-07	5	5	5	4	4	4	5	5	6	7	9	9	9	10	11	11	11	11	10	10	9	8	7	7	7.6	11.2
6-May-07	6	5	5	5	6	6	7	9	10	11	14	14	14	14	15	15	14	13	13	12	12	12	10	10	10.6	15.1
7-May-07	9	7	6	6	5	6	7	9	9	10	11	11	13	13	13	13	13	12	12	10	9	9	8	7	9.5	13.2
8-May-07	6	6	5	6	6	6	6	7	8	9	10	10	11	10	8	7	6	5	5	5	4	4	4	4	6.6	10.5
9-May-07	5	5	3	2	3	3	2	3	3	5	6	7	8	9	7	6	10	8	7	8	6	5	5	5	5.4	10.1
10-May-07	4	4	3	3	2	1	3	5	8	11	12	13	13	14	14	14	15	13	13	13	12	11	11	10	9.3	14.9
11-May-07	9	9	7	6	6	2	3	6	8	11	12	14	16	16	16	16	16	15	14	14	12	10	10	9	10.7	16.4
12-May-07	8	5	4	4	4	4	4	6	8	8	9	10	11	12	12	13	12	12	12	11	8	6	5	5	8.1	12.9
13-May-07	4	3	2	1	1	1	4	5	7	10	13	14	14	15	15	17	15	15	14	13	12	11	10	9	9.5	16.6
14-May-07	10	7	6	4	4	4	5	9	12	14	16	16	17	17	18	18	19	18	17	15	13	12	12	10	12.2	18.6
15-May-07	9	8	9	6	5	5	6	8	11	15	16	17	18	19	20	21	20	20	19	18	16	16	15	15	13.9	20.6
16-May-07	14	13	11	10	9	9	9	13	17	19	19	19	21	22	21	20	21	21	20	18	16	14	13	12	15.8	22.2
17-May-07	10	9	9	9	8	7	9	10	11	12	13	14	15	15	15	15	14	13	12	11	9	7	6	6	11.1	15.2
18-May-07	6	4	3	3	2	2	2	2	2	2	2	3	3	4	5	5	5	5	5	5	5	5	5	5	3.8	5.5
19-May-07	5	5	5	5	5	5	5	6	7	8	10	11	12	10	11	14	13	13	12	11	6	5	4	3	7.9	13.9
20-May-07	3	3	3	4	4	4	4	5	5	6	6	7	8	9	9	10	8	10	9	8	8	7	6	5	6.4	10.1
21-May-07	5	4	4	4	4	4	5	5	7	9	12	13	14	13	15	15	15	12	13	13	11	9	7	7	9.1	15.1
22-May-07	7	6	5	3	3	4	5	7	9	12	9	6	6	6	6	5	6	6	7	6	6	4	2	1	5.7	12.1
23-May-07	1	1	1	0	-1	0	2	3	4	3	3	3	3	5	5	7	7	7	7	7	6	3	3	2	3.4	7.2
24-May-07	2	2	0	-1	-1	0	2	4	7	9	10	11	13	15	16	17	17	17	18	18	15	12	12	11	9.3	17.7
25-May-07	9	6	5	6	5	6	8	9	12	15	19	21	21	22	22	23	23	22	22	20	17	15	14	13	14.9	23.4
26-May-07	12	11	10	9	9	9	11	12	16	17	19	21	20	20	20	20	19	19	18	18	15	13	12	11	15.1	20.5
27-May-07	11	11	11	10	10	9	10	12	13	14	16	16	17	17	18	18	17	17	17	16	15	13	11	11	13.7	18.1
28-May-07	10	9	9	8	7	8	9	9	9	9	10	11	11	12	12	12	13	12	12	12	12	10	9	8	10.2	12.8
29-May-07	7	7	7	6	5	7	8	9	12	15	18	19	20	21	22	23	23	23	23	21	19	17	16	15	15.2	22.9
30-May-07	15	12	10	9	10	10	12	15	17	21	24	25	26	25	27	27	25	25	24	22	21	20	18	17	19.0	26.7
31-May-07	15	13	12	12	10	11	14	16	18	20	21	23	23	25	25	26	26	26	25	24	22	20	19	17	19.2	26.0
Hourly Avg	7.4	6.5	6.0	5.3	5.0	5.1	6.1	7.4	9.1	10.7	12.0	12.8	13.4	13.9	14.1	14.4	14.2	13.7	13.4	12.6	11.2	9.9	9.1	8.4		
Hourly Max	15.0	12.7	12.3	12.0	10.2	11.2	14.0	15.8	17.7	20.6	23.9	25.5	25.8	24.8	26.5	26.7	25.5	25.8	25.0	23.9	22.4	19.9	18.6	17.0		

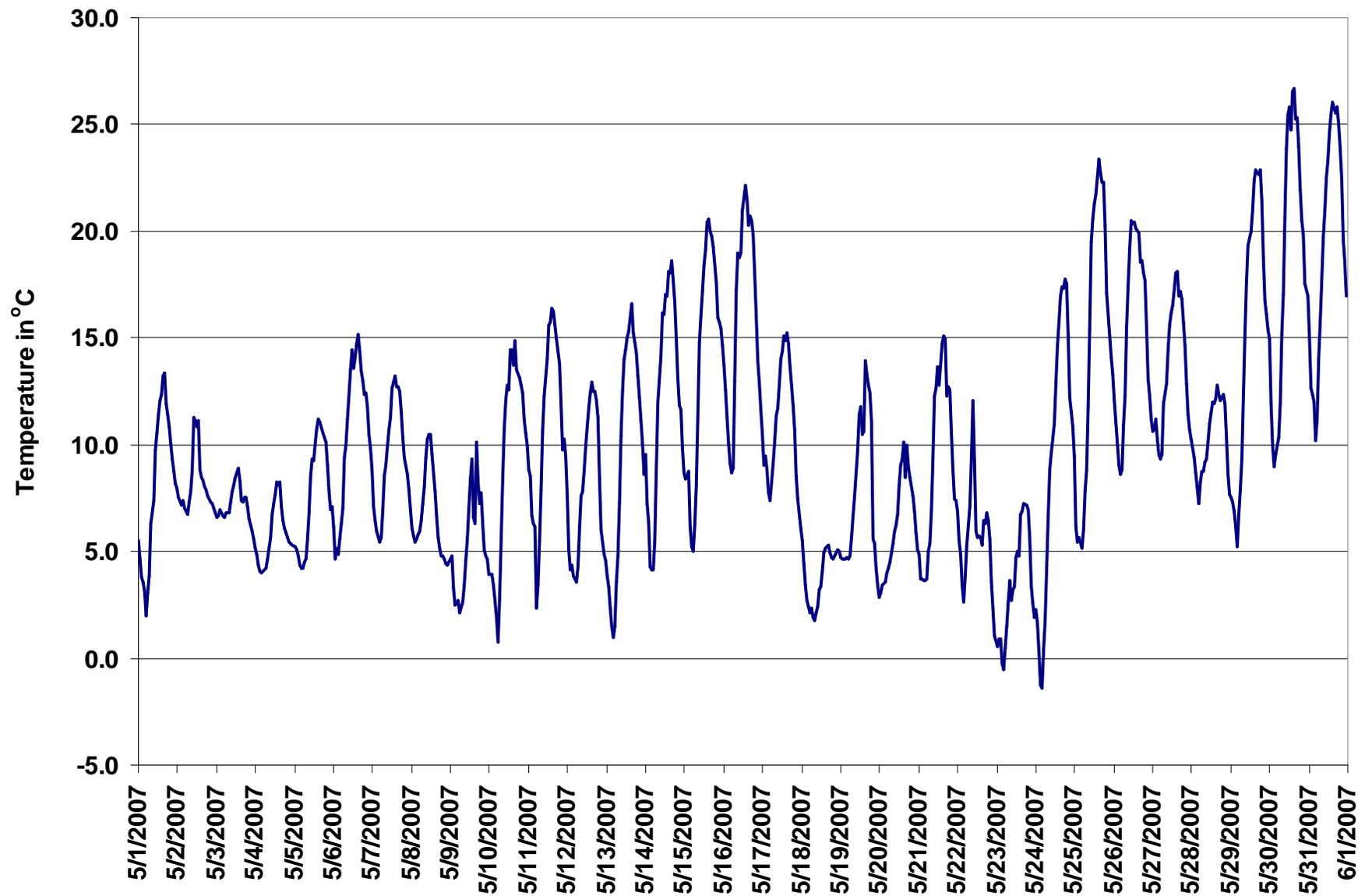


Figure 45. PASZA - Beaverlodge Temperature 1-hr Average Monthly Trend

# PASZA - Beaverlodge - Scalar Wind Speed Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

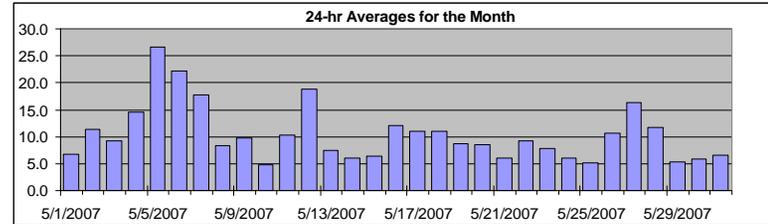
## Wind Speed (WSs)

Monitoring Dates: May 1, 2007 to June 1, 2007

### Summary

Maximum 1-hr Average:	42.8	km/hr	6-May	11:00 12:00
Maximum 24-hr Value:	26.7	km/hr	5-May	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	34.1	24.9	13.4	8.3	5.0	2.7	1.7	10.4 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	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-May-07	3	3	5	8	7	4	2	3	5	6	7	9	7	8	7	6	8	9	9	7	7	10	13	11		6.8	12.6
2-May-07	13	13	10	10	7	11	14	13	15	16	18	15	14	16	17	13	12	7	4	4	5	8	10	8		11.3	17.7
3-May-07	10	11	9	8	7	2	3	4	8	10	10	10	8	11	15	15	12	11	8	5	11	11	13	11		9.2	14.9
4-May-07	12	16	17	16	14	11	13	13	13	14	17	19	18	19	14	14	17	18	12	13	15	13	13	11		14.6	19.2
5-May-07	15	16	18	18	17	13	15	23	31	35	41	41	39	35	34	33	34	34	28	30	31	22	16	20		26.7	41.2
6-May-07	17	10	9	12	6	4	10	17	21	23	25	43	33	33	31	28	27	32	35	24	29	26	17	22		22.1	42.8
7-May-07	19	11	6	3	6	11	13	15	22	21	21	17	20	29	29	29	27	27	22	21	20	16	12	9		17.7	29.4
8-May-07	7	7	6	6	8	7	7	7	9	9	8	7	6	10	12	14	12	9	8	4	8	11	8	9		8.3	13.6
9-May-07	7	14	16	13	11	11	11	11	13	11	10	11	10	9	14	9	5	6	6	8	6	6	6	7		9.7	16.1
10-May-07	6	4	3	2	2	3	2	3	3	3	3	5	6	7	6	7	7	10	9	6	4	4	5	5		4.8	9.9
11-May-07	5	7	5	7	6	4	3	5	5	8	9	9	11	18	19	23	25	22	21	14	8	4	4	7		10.3	25.4
12-May-07	22	19	12	10	6	7	7	18	24	32	34	34	29	29	26	25	21	21	20	16	13	10	9	8		18.9	34.1
13-May-07	6	5	5	5	4	3	3	5	5	7	13	13	14	10	10	11	13	10	9	8	6	6	8	3		7.5	13.7
14-May-07	4	3	5	4	4	4	1	4	5	6	5	6	7	8	7	7	5	7	11	15	10	5	5	5		6.0	15.0
15-May-07	4	4	7	4	3	4	2	3	4	4	5	4	4	5	5	5	7	9	12	11	11	13	13	10		6.3	12.9
16-May-07	8	4	2	2	2	2	4	3	14	21	21	15	7	4	16	21	20	22	20	12	18	17	19	14		12.0	22.4
17-May-07	13	12	14	16	17	16	16	20	16	13	9	8	7	7	6	8	7	7	8	7	11	8	8	11		11.1	20.4
18-May-07	10	11	12	8	7	7	6	7	8	6	6	8	10	10	13	15	16	13	13	17	16	18	15	13		11.1	18.1
19-May-07	15	15	16	14	11	8	7	4	3	4	4	6	7	7	8	5	8	8	7	7	10	11	10	10		8.6	16.3
20-May-07	6	5	3	5	6	4	6	5	8	11	15	13	13	14	13	13	14	10	9	7	6	6	6	3		8.5	15.4
21-May-07	4	2	4	5	3	3	4	4	6	4	3	4	6	9	5	5	9	13	6	3	8	11	18	7		6.0	17.7
22-May-07	6	6	4	4	3	2	4	5	7	7	23	23	21	18	14	10	8	7	10	10	6	6	8	9		9.2	23.4
23-May-07	7	3	5	7	6	5	5	8	12	11	11	10	9	12	11	11	7	10	12	9	6	3	3	4		7.8	12.4
24-May-07	4	3	2	2	3	2	3	2	3	4	8	10	8	7	10	8	7	11	12	10	8	7	4	4		6.0	12.0
25-May-07	3	3	2	2	1	2	2	4	4	4	3	4	5	6	6	6	9	12	12	11	10	3	4	3		5.1	12.2
26-May-07	3	3	2	4	2	2	1	3	3	5	9	20	21	22	25	24	23	15	13	13	11	9	8	10		10.6	24.9
27-May-07	8	6	10	12	15	13	11	22	26	24	20	20	20	19	19	20	18	21	21	19	18	15	6	7		16.3	26.4
28-May-07	8	11	10	10	6	11	14	14	17	17	19	20	18	17	17	18	15	13	10	5	4	2	3	3		11.8	20.0
29-May-07	4	4	4	3	3	3	3	4	4	4	4	6	7	7	6	6	8	10	11	9	7	4	4	2		5.3	10.8
30-May-07	4	5	3	4	3	2	3	3	4	3	4	4	5	7	9	12	6	12	15	6	5	5	7	6		5.8	15.3
31-May-07	4	3	5	3	4	4	1	3	6	8	5	6	9	9	8	8	11	11	13	8	6	8	9	7		6.6	12.5
1-hr Average	8.3	7.7	7.4	7.3	6.5	6.0	6.4	8.2	10.4	11.4	12.5	13.6	12.9	13.6	14.0	13.8	13.5	13.8	13.1	11.0	10.8	9.7	9.0	8.4			
Hourly Max	21.9	19.5	17.5	18.1	17.0	16.4	16.5	22.7	31.5	35.4	41.2	42.8	39.4	35.2	33.5	32.8	33.8	34.2	35.2	29.7	31.3	26.2	18.5	22.3			

# PASZA - Beaverlodge - Vector Wind Speed Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

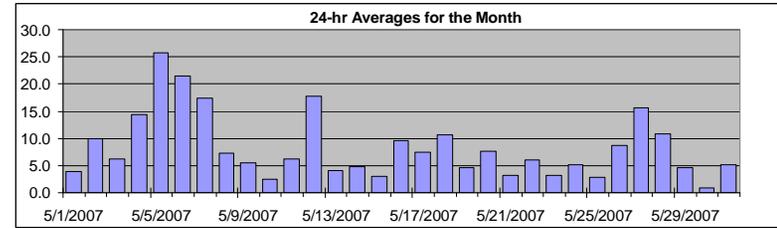
## HOURLY AVERAGE TABLE

## Wind Speed (WSv)

Monitoring Dates: May 1, 2007 to June 1, 2007

### Summary

Maximum 1-hr Average:	42.5	km/hr	6-May	11:00 12:00
Maximum 24-hr Value:	25.8	km/hr	5-May	



Calm Time:	9 hrs	1% calms	Operational Time:	735 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	34.0	24.5	13.3	8.0	4.3	2.0	1.4	23.0 km/hr

### Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00		
1-May-07	3	2	4	7	6	2	calm	3	5	5	5	8	7	7	6	3	7	8	9	7	7	10	13	11		3.9	12.5	
2-May-07	13	13	10	10	7	10	14	13	15	16	18	15	14	15	17	13	12	7	3	4	5	7	10	8		9.9	17.5	
3-May-07	10	10	9	8	7	1	3	3	8	9	10	9	8	10	15	15	12	11	8	5	11	10	13	11		6.2	14.7	
4-May-07	12	16	17	16	14	11	12	13	13	14	16	19	18	19	13	14	17	18	12	13	15	13	13	11		14.3	19.0	
5-May-07	15	16	17	18	17	13	15	23	31	35	41	41	39	35	33	32	34	34	28	30	31	22	16	20		25.8	41.1	
6-May-07	17	10	9	11	5	2	10	17	21	23	25	43	33	32	30	28	27	31	35	24	29	26	17	22		21.5	42.5	
7-May-07	19	11	5	1	6	11	13	14	22	21	20	17	19	29	29	28	27	26	22	21	20	16	12	8		17.4	29.3	
8-May-07	6	7	5	6	8	7	7	7	9	9	7	6	6	6	10	14	12	9	8	4	8	11	8	9		7.2	13.5	
9-May-07	7	14	16	13	11	11	11	11	13	11	10	11	9	9	13	6	1	4	6	8	6	6	6	7		5.6	16.1	
10-May-07	6	4	2	2	2	3	1	2	3	2	2	4	4	6	3	5	6	9	8	6	3	4	5	5		2.5	8.8	
11-May-07	4	7	5	6	5	3	3	4	4	8	9	8	10	18	18	22	25	22	21	14	7	4	3	6		6.3	24.9	
12-May-07	22	19	12	10	5	7	7	17	24	32	34	34	29	28	26	24	21	20	20	16	13	10	8	7		17.8	33.9	
13-May-07	5	4	4	5	3	3	2	5	5	6	11	13	13	9	9	9	13	9	9	8	6	5	8	2		4.1	13.3	
14-May-07	4	3	4	2	3	3	calm	3	4	6	4	4	4	6	5	5	4	7	11	15	10	5	5	5		4.8	14.8	
15-May-07	3	3	7	calm	3	3	2	3	3	4	4	3	2	2	calm	4	6	9	11	11	11	13	13	10		3.0	12.9	
16-May-07	7	3	1	2	2	2	3	3	14	21	21	14	6	2	15	20	20	22	19	12	18	17	18	14		9.7	22.2	
17-May-07	13	11	14	16	17	16	16	20	16	12	8	7	5	5	3	7	5	5	6	7	10	7	7	10		7.4	20.3	
18-May-07	10	11	12	8	7	7	6	7	8	5	6	7	10	10	13	14	15	13	13	17	16	18	15	13		10.7	18.1	
19-May-07	15	15	16	14	11	8	7	3	3	4	2	4	6	4	8	4	7	8	7	3	8	11	10	10		4.6	16.2	
20-May-07	6	5	2	2	6	4	6	5	8	11	15	13	13	14	13	13	14	10	9	7	6	6	5	2		7.6	15.2	
21-May-07	3	1	4	4	2	3	4	4	5	4	1	2	5	8	2	3	8	13	4	2	calm	10	17	7		3.2	17.1	
22-May-07	5	4	3	4	3	1	4	5	6	6	23	23	20	18	13	10	7	6	10	9	6	6	8	9		6.1	23.0	
23-May-07	7	3	5	7	6	5	5	8	12	11	10	9	8	10	11	7	6	8	11	9	6	3	3	4		3.2	11.7	
24-May-07	4	3	1	2	3	2	3	2	2	8	10	8	7	9	7	5	11	12	10	8	7	4	4		5.2	11.8		
25-May-07	1	2	1	1	1	2	2	4	4	3	2	2	2	4	6	2	8	12	12	11	10	calm	4	3		2.9	11.8	
26-May-07	3	3	2	4	2	2	calm	3	3	5	9	20	20	21	24	24	23	15	13	13	11	9	8	10		8.7	24.4	
27-May-07	8	6	10	12	15	13	11	22	26	24	20	20	19	19	19	20	17	20	21	18	18	15	6	7		15.7	26.3	
28-May-07	8	11	10	10	6	11	14	14	17	17	19	20	18	17	17	18	14	13	9	5	4	calm	2	3		10.8	19.9	
29-May-07	4	4	3	3	3	3	3	4	4	4	4	4	6	4	4	5	7	10	11	9	7	4	4	2		4.6	10.7	
30-May-07	4	3	2	4	3	1	3	3	4	3	3	3	4	6	8	12	6	10	15	6	5	5	7	6		1.0	15.2	
31-May-07	3	2	3	2	2	2	calm	3	5	7	4	5	6	7	7	7	10	10	12	8	6	7	8	7		5.1	12.4	
1-hr Vector	3.2	3.3	3.5	2.8	2.1	2.5	3.0	5.2	7.6	8.1	7.9	8.0	7.2	6.9	6.8	6.8	7.1	7.1	5.9	4.3	4.9	3.4	3.2	2.8				
Hourly Max	21.8	19.3	17.5	18.0	17.0	16.4	16.4	22.6	31.4	35.3	41.1	42.5	39.0	34.9	33.2	32.4	33.6	34.0	35.0	29.6	31.1	26.1	18.4	22.3				

### PASZA - Beaverlodge - Wind Direction Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

#### HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**


Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	352.0	335.2	293.6	258.0	118.3	41.2	5.6	290 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-May-07	282	355	293	330	41	297	274	69	304	352	135	102	103	103	111	30	145	93	73	68	54	48	48	34	59	ESE
2-May-07	57	53	41	69	49	80	107	103	94	95	112	103	96	104	154	137	138	151	123	75	75	101	103	85	98	E
3-May-07	64	74	97	77	55	64	99	174	298	318	332	322	333	325	318	326	328	324	329	335	328	309	306	313	337	NNW
4-May-07	308	295	292	298	299	295	298	299	303	301	307	315	317	319	332	334	305	307	327	314	317	317	318	321	310	NW
5-May-07	320	317	310	310	305	299	283	282	278	280	281	280	266	265	268	265	266	270	276	278	275	283	274	272	279	W
6-May-07	264	271	270	268	220	243	233	256	253	255	260	275	282	275	281	287	293	286	275	272	282	284	290	287	274	W
7-May-07	294	292	294	256	251	275	277	285	287	288	283	292	288	278	275	270	283	290	279	264	271	269	265	261	279	W
8-May-07	249	266	257	286	291	293	291	298	271	275	273	230	286	270	211	211	207	213	240	242	227	256	251	266	253	WSW
9-May-07	272	307	322	319	311	317	321	313	316	330	357	12	11	10	304	357	68	156	104	125	91	102	97	106	340	NNW
10-May-07	117	128	157	122	143	125	302	261	291	198	210	228	250	288	196	205	228	240	228	247	275	359	344	360	233	SW
11-May-07	9	344	346	35	35	355	229	237	195	182	180	166	239	257	266	270	273	293	296	308	338	89	14	322	281	W
12-May-07	315	320	332	328	329	237	249	284	276	266	264	270	275	279	282	286	286	278	273	269	262	262	269	281	280	W
13-May-07	271	263	262	58	80	162	190	209	189	227	271	290	304	318	336	287	308	345	13	8	4	12	47	103	312	NW
14-May-07	321	59	344	348	24	301	144	271	292	294	289	239	253	246	295	318	267	258	252	264	271	263	300	244	279	W
15-May-07	283	348	325	242	76	71	192	219	248	321	241	93	209	178	7	72	102	112	101	91	79	99	108	112	99	E
16-May-07	105	178	145	191	144	138	69	188	256	260	256	263	261	340	272	282	282	277	282	304	307	308	291	280	277	W
17-May-07	280	287	290	289	291	293	283	285	292	306	311	320	292	274	298	335	340	47	65	3	54	50	69	76	310	NW
18-May-07	82	79	66	57	60	67	87	84	68	81	76	92	100	104	105	102	103	115	103	98	94	94	99	107	92	E
19-May-07	111	115	118	125	136	142	157	146	236	304	343	13	65	86	113	120	153	165	139	110	4	23	357	344	103	ESE
20-May-07	341	306	265	198	239	292	321	303	287	298	306	314	325	318	313	332	322	344	328	326	338	5	337	351	317	NW
21-May-07	332	286	288	303	14	314	322	320	315	299	202	238	261	76	81	221	255	260	286	196	250	56	258	254	277	W
22-May-07	293	331	72	166	162	111	182	182	226	273	339	344	4	21	22	2	323	0	17	26	17	33	45	53	2	N
23-May-07	40	352	335	325	277	280	283	299	303	312	314	332	1	350	42	43	60	101	117	134	165	163	78	88	360	N
24-May-07	78	74	161	102	120	137	230	209	171	155	167	166	155	169	167	160	178	160	144	142	138	113	103	81	150	SSE
25-May-07	171	110	126	132	104	119	172	212	199	196	190	153	170	158	126	91	222	242	247	256	260	235	74	82	201	SSW
26-May-07	86	89	107	94	114	75	145	227	215	213	225	268	267	260	260	261	263	268	268	270	285	295	300	285	264	W
27-May-07	280	285	287	270	269	260	250	257	261	261	285	278	276	280	279	295	288	281	282	274	273	281	336	344	277	W
28-May-07	338	322	320	313	288	297	301	306	308	312	316	319	317	319	320	324	346	351	338	8	37	88	71	82	322	NW
29-May-07	90	90	129	162	99	135	174	200	170	174	165	192	170	169	161	148	136	123	126	130	129	104	100	93	142	SE
30-May-07	63	52	248	66	85	84	74	198	202	221	231	250	118	84	110	118	118	315	308	328	334	327	308	349	16	NNE
31-May-07	33	257	317	315	324	240	284	312	278	284	222	229	240	259	261	248	241	258	286	295	301	314	334	27	279	W
Hourly Avg	327	330	317	318	314	290	272	272	276	279	280	286	287	289	281	287	277	280	285	287	299	324	329	329		

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

Station: Beaverlodge  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

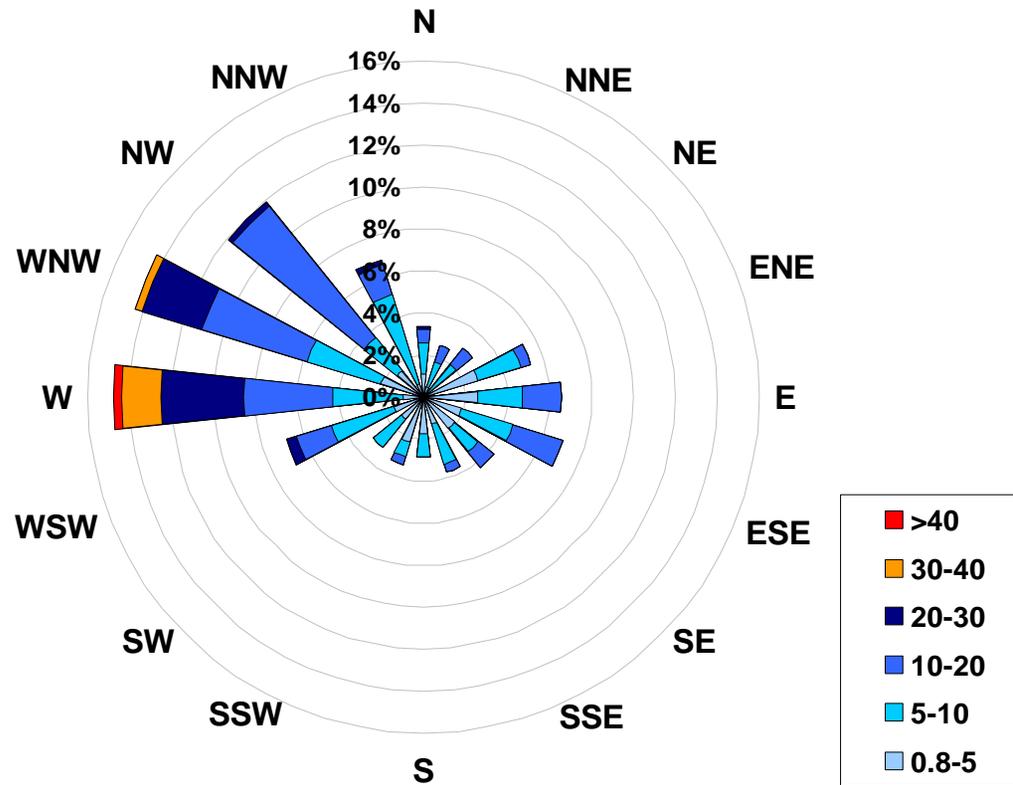

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	61.6	47.3	20.2	9.4	5.3	3.3	2.6

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

Day	Mountain Standard Time																								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-May-07	11	26	25	19	8	32	45	9	33	18	22	13	20	36	47	69	26	15	7	5	8	7	3	4	69.3
2-May-07	3	3	4	6	10	10	4	5	7	7	8	8	8	8	6	6	4	7	7	8	9	7	4	4	10.0
3-May-07	3	3	3	5	4	29	15	28	15	6	8	7	7	8	6	4	6	5	6	10	5	4	3	5	29.4
4-May-07	4	4	3	3	4	4	4	4	4	5	5	6	5	5	6	9	8	5	4	4	4	4	4	5	8.5
5-May-07	4	3	4	4	3	4	4	4	3	5	4	5	7	7	8	7	7	5	5	4	4	3	4	6	7.7
6-May-07	5	5	3	5	20	60	9	8	4	6	9	6	5	6	6	5	4	4	4	4	4	3	3	3	60.0
7-May-07	3	2	26	56	25	3	5	6	5	5	8	6	6	5	6	5	5	4	5	4	3	3	4	4	55.7
8-May-07	7	6	9	6	4	5	7	5	10	15	20	46	36	33	39	6	5	9	6	8	6	5	17	12	46.1
9-May-07	13	8	4	4	4	4	5	5	5	11	15	17	19	18	19	31	41	33	16	5	7	6	6	4	41.3
10-May-07	6	14	23	9	8	11	19	14	37	40	62	49	49	34	63	25	27	20	13	8	12	14	7	6	62.7
11-May-07	11	6	42	15	63	39	27	14	13	9	13	17	20	11	13	9	9	7	5	4	9	20	14	17	62.7
12-May-07	4	6	7	7	28	10	8	6	9	6	6	6	8	8	9	7	11	11	8	5	3	3	3	50	50.3
13-May-07	27	38	61	24	17	14	21	12	14	23	17	16	14	25	20	20	15	24	12	12	11	14	4	29	60.7
14-May-07	34	53	25	51	31	30	32	48	16	23	49	41	56	50	48	51	41	21	13	4	3	8	9	20	56.0
15-May-07	21	11	4	29	13	29	18	12	21	24	31	36	61	56	63	43	26	15	6	4	3	4	3	5	63.4
16-May-07	7	21	27	20	19	30	20	21	7	7	5	9	42	58	36	10	7	7	9	6	5	4	4	4	57.7
17-May-07	3	3	3	2	2	4	4	6	9	14	29	29	31	36	38	35	37	36	40	11	21	20	18	6	39.9
18-May-07	5	7	5	4	5	7	19	9	7	13	10	16	10	11	9	9	8	6	7	5	4	4	5	5	18.9
19-May-07	5	3	3	3	5	7	7	16	27	20	48	30	31	36	11	50	20	15	14	23	20	8	10	10	50.1
20-May-07	14	7	26	25	4	8	7	7	6	6	7	13	11	13	13	9	12	9	6	7	9	29	46	46.5	
21-May-07	46	38	7	25	11	8	8	13	12	30	52	40	40	22	60	28	38	11	19	16	25	33	6	7	59.9
22-May-07	12	10	19	8	12	14	9	13	10	20	10	10	14	13	16	15	24	23	15	11	9	4	4	4	24.5
23-May-07	7	14	9	7	5	5	8	10	8	10	11	17	18	17	10	30	16	16	13	8	5	5	17	6	30.4
24-May-07	4	39	23	22	7	11	21	35	30	45	23	16	23	27	24	32	32	13	8	6	3	5	7	9	44.9
25-May-07	32	26	15	27	12	14	13	11	13	20	52	50	67	38	32	59	30	14	13	2	2	36	9	11	67.3
26-May-07	11	9	18	7	29	57	63	20	30	14	10	7	9	11	8	7	7	8	6	4	2	4	5	3	63.3
27-May-07	7	13	5	4	3	3	5	5	5	7	12	8	9	11	11	10	9	9	7	5	3	9	7	8	13.1
28-May-07	6	6	7	5	4	3	5	5	4	4	5	5	8	9	7	9	13	14	11	20	13	25	9	15	24.6
29-May-07	5	13	6	13	10	12	7	13	22	27	29	45	39	43	61	36	22	13	8	5	6	6	6	10	60.7
30-May-07	7	50	60	7	7	40	11	24	18	24	29	33	47	13	18	12	12	43	5	11	8	7	4	8	60.1
31-May-07	24	65	19	22	30	30	21	23	18	19	34	41	46	31	43	33	17	14	7	4	3	3	5	15	65.5
Hourly Max	46	65	61	56	63	60	63	48	37	45	62	50	67	58	63	69	41	43	40	23	25	36	29	50	

**1-hr Average Wind Rose (in km/hr) Located at the Beaverlodge Site for May 2007**



**Calms: 0%**

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	182
5	to	10	259
10	to	20	223
20	to	30	60
30	to	40	17
	>	40	3
Total Non-Zero Values			744

# PASZA – Portable - Falher Station

Monthly Summary Tables, Graphs, and  
Roses

### PASZA - Portable-Falher - Sulphur Dioxide Monthly Summary

#### HOURLY AVERAGE TABLE

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

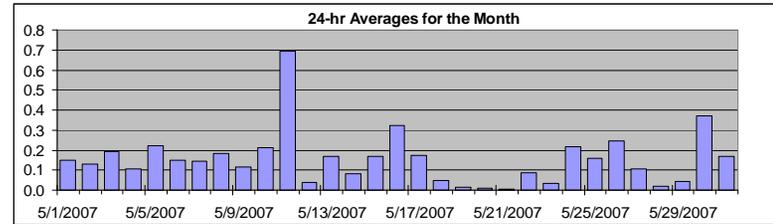
Station: Portable-Falher  
Station Owner: PASZA

Monitoring Dates: May 1, 2007 to June 1, 2007

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:	2.7	ppb	11-May	15:00	16:00	
Maximum 24-hr Average:	0.7	ppb	11-May			

AIC Time:	34 hrs	Operational Time:	703 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.2	0.5	0.2	0.1	0.0	0.0	0.0	0.2 ppb	0.1 ppb



#### Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
Hour Start 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-May-07	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
2-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.1	0.2
3-May-07	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	0.4
4-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
5-May-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.2	0.8
6-May-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
7-May-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
8-May-07	A	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
9-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.4
10-May-07	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.8
11-May-07	0	0	0	0	0	0	0	1	1	1	1	2	1	2	1	3	1	0	0	1	A	0	0	0	0.7	2.7
12-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.0	0.5
13-May-07	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	A	1	0	0	0	0	0.2	0.8
14-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.1	0.2
15-May-07	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0.2	0.6
16-May-07	0	0	0	0	0	0	1	1	1	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.3	1.1
17-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	1	0	0.2	0.6
18-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.0	0.2
19-May-07	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
20-May-07	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
21-May-07	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
22-May-07	0	0	0	0	0	0	0	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.5
23-May-07	0	0	0	0	0	0	0	0	0	A	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0.0	0.2
24-May-07	0	0	0	A	0	0	0	1	0	0	C	C	C	C	A	1	0	0	0	0	0	0	0	0	0.2	1.4
25-May-07	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
26-May-07	0	0	A	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
27-May-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
28-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.0	0.1
29-May-07	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
30-May-07	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0.4	1.1
31-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.2	0.2
Hourly Avg	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
Hourly Max	0.2	0.2	0.3	0.5	0.4	0.5	1.1	1.5	1.1	1.1	1.3	1.8	1.2	2.4	1.3	2.7	0.8	0.4	0.3	0.8	0.3	0.4	0.6	0.3		

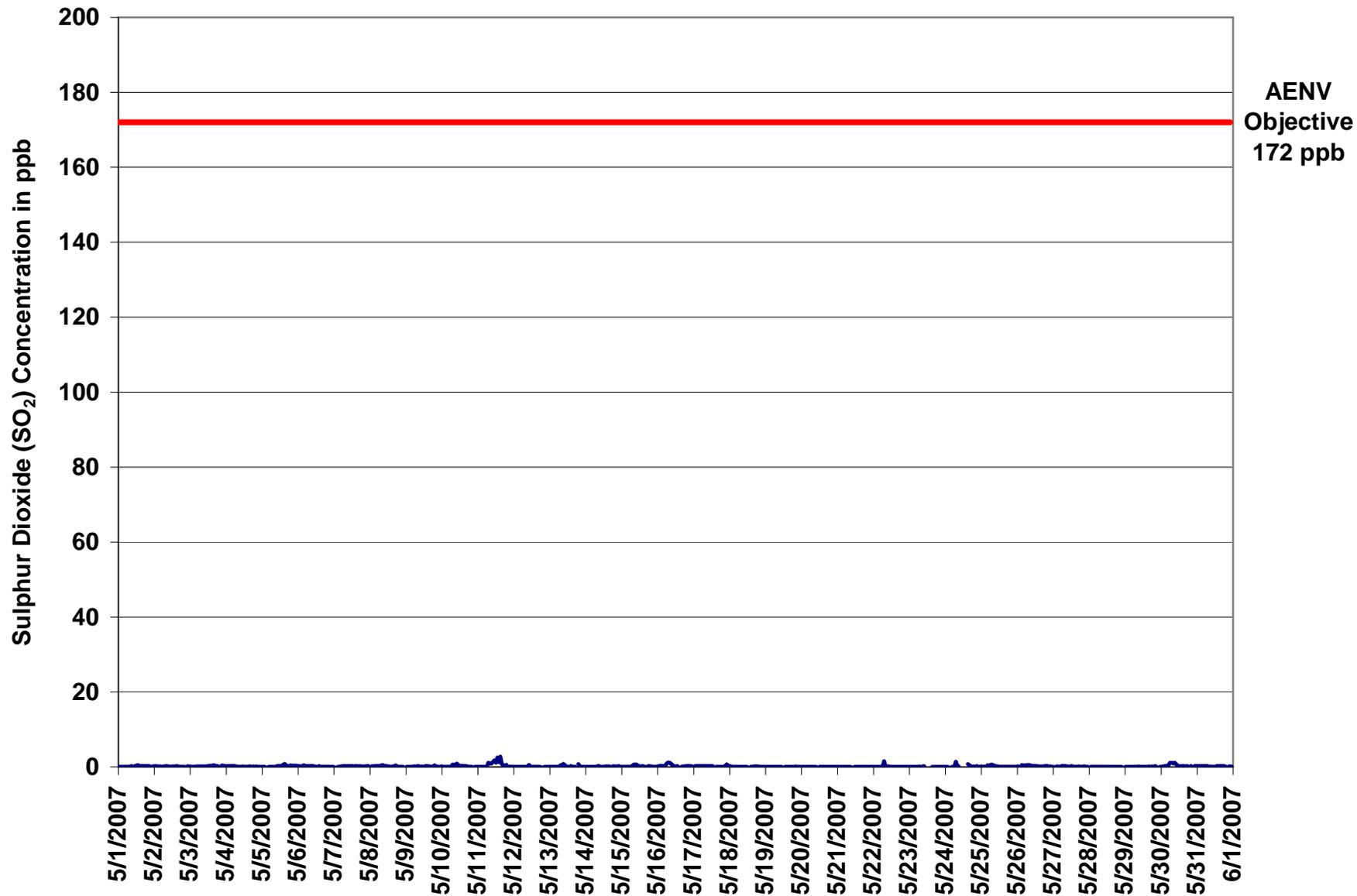


Figure 46. PASZA - Portable-Falher Sulphur Dioxide 1-hr Average Monthly Trend

Station: Portable-Falher  
 Station Owner: PASZA

### INSTANTANEOUS (30 Second) MAXIMUM TABLE

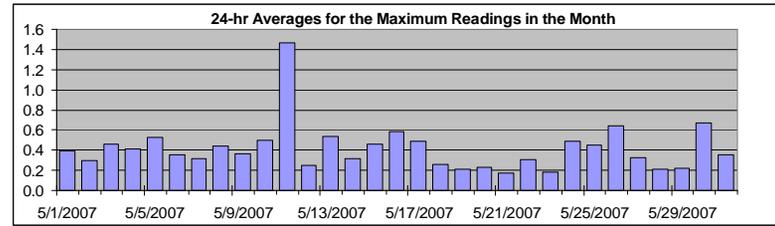
### Sulphur Dioxide (SO<sub>2</sub>)

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	7.9	ppb	11-May	13:00 14:00
Maximum 24-hr Value:	1.5	ppb	11-May	

AIC Time:	34 hrs					Operational Time:	703 hrs				
Calibration Time:	7 hrs					AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average		Median	
	2.2	1.1	0.5	0.3	0.2	0.1	0.1	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	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
1-May-07	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	0	0	A	0	0.4	0.8
2-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.4
3-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	A	1	0	0.5	0.9
4-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
5-May-07	0	0	0	A	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0.5	1.4
6-May-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
7-May-07	0	A	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7
8-May-07	A	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	0	0	0	A	0.4	0.8
9-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	A	0.4	1.8
10-May-07	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	0	0	0	A	0	0.5	1.3	
11-May-07	0	0	0	0	0	0	1	2	1	1	2	2	2	8	5	4	3	1	1	A	1	0	1.5	7.9
12-May-07	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	A	0	0	0	0.3	0.7
13-May-07	0	0	0	0	0	0	1	1	1	2	2	0	1	0	1	1	1	0	A	3	1	0	0.5	2.6
14-May-07	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	A	1	1	1	1	0.3	1.1
15-May-07	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	A	1	1	1	0	0	0	0.5	1.1
16-May-07	1	1	1	1	1	1	1	2	1	1	1	0	0	0	0	A	0	0	0	0	0	0	0.6	1.7
17-May-07	0	0	0	0	1	1	0	1	1	1	1	0	1	1	A	0	0	0	0	0	0	1	0.5	1.2
18-May-07	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	1	0	0	0	0.3	0.7
19-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.2	0.7
20-May-07	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.2	0.3
21-May-07	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2
22-May-07	0	0	0	0	0	0	1	3	1	A	1	1	0	0	0	0	0	0	0	0	0	0	0.3	2.5
23-May-07	0	0	0	0	0	0	0	0	0	A	0	0	C	C	C	A	0	0	0	0	0	0	0.2	0.3
24-May-07	0	0	0	A	0	0	0	3	1	0	C	C	C	C	A	1	1	1	0	0	1	0	0.5	2.7
25-May-07	1	0	1	A	1	1	1	1	1	1	1	1	1	0	0	1	0	1	0	1	0	0	0.5	1.1
26-May-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	2	0	1	0	0.6	2.0
27-May-07	0	A	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.3	1.0
28-May-07	A	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
29-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	A	0.2	1.2
30-May-07	0	0	0	1	0	2	1	1	1	2	1	1	1	0	1	0	0	0	0	1	A	0	0.7	1.7
31-May-07	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	1	0	0	A	0	0.4	0.7
Hourly Avg	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.7	0.5	0.6	0.5	0.4	0.5	0.6	0.5	0.5	0.4	0.3	0.4	0.5	0.3	0.3	0.3	0.3
Hourly Max	0.6	0.7	0.7	1.4	1.1	1.6	1.2	2.7	1.2	1.7	1.7	2.2	1.7	7.9	4.7	3.7	2.7	0.8	1.1	2.6	1.2	0.9	1.2	0.8

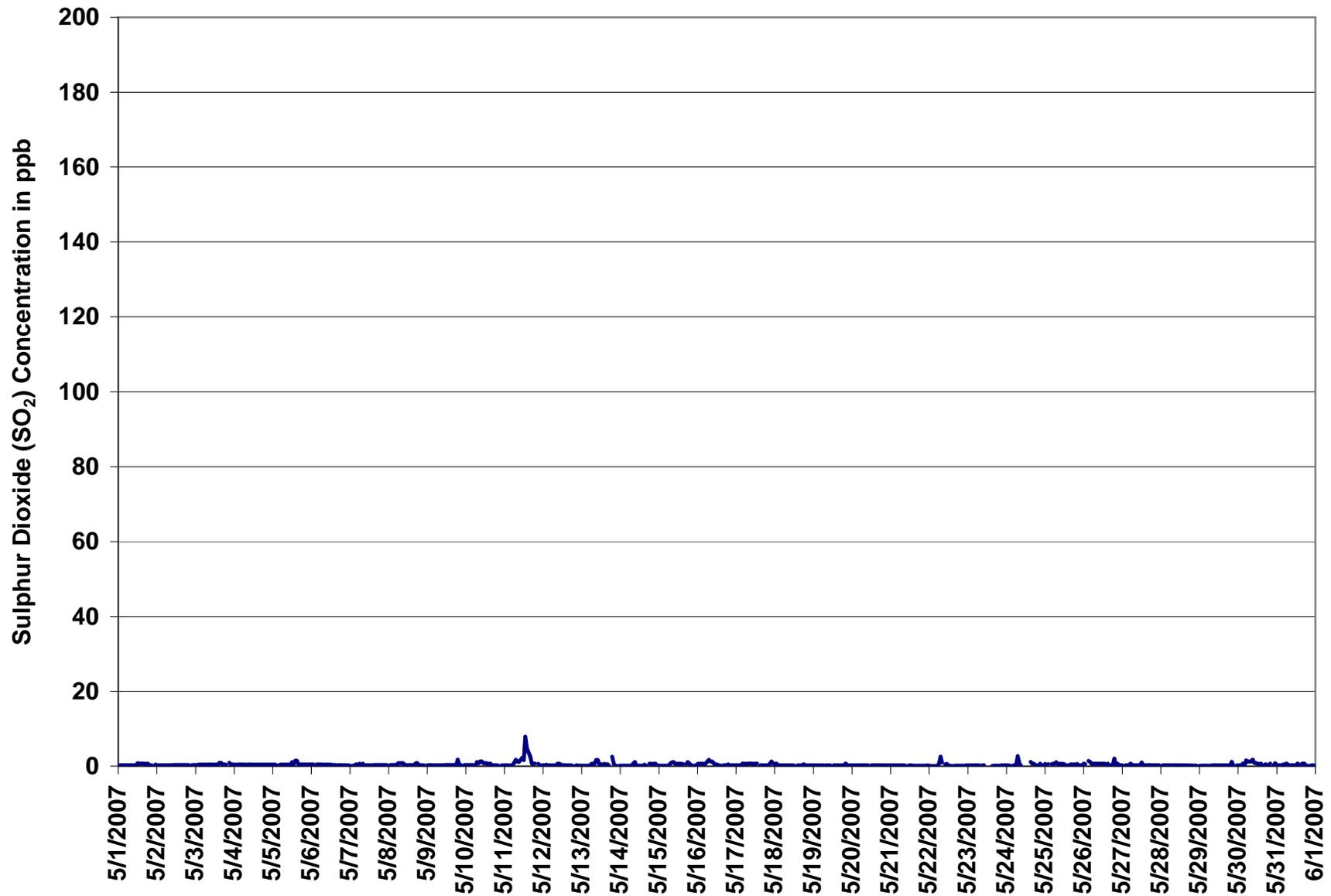
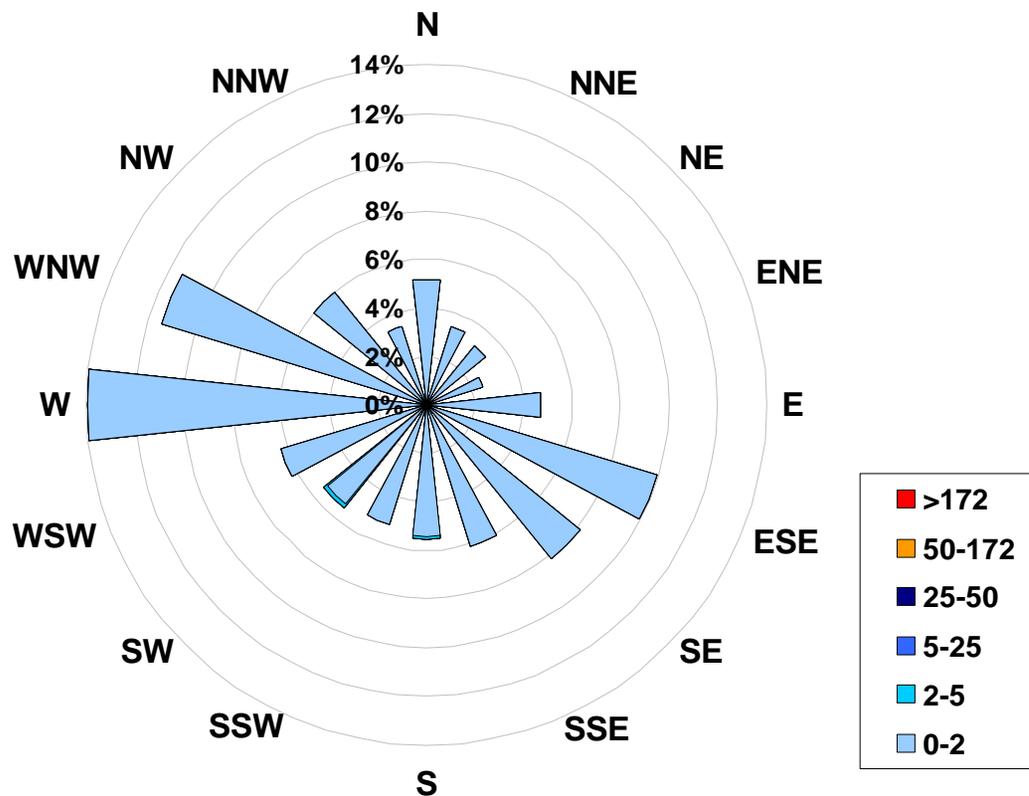


Figure 47. PASZA - Portable-Falher Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Portable-Falher Site for May 2007**



**Calms: 0%**

Frequency Distribution of SO <sub>2</sub> in ppb			Frequency (hrs)
Range			
0.0	< 2		701
2	to 5		2
5	to 25		0
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			703

## PASZA - Portable-Falher - Nitrogen Dioxide Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

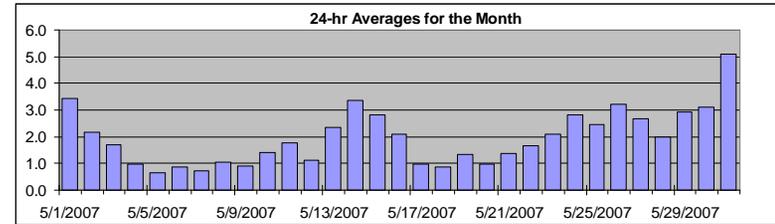
### HOURLY AVERAGE TABLE

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

Monitoring Dates: May 1, 2007 to June 1, 2007

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

<b>Summary</b>			
Number of 1-hr Exceedances:	0		
Number of 24-hr Exceedances:	0		
Maximum 1-hr Average:	24.6 ppb	31-May	22:00 23:00
Maximum 24-hr Average:	5.1 ppb	31-May	



AIC Time:	49 hrs	Operational Time:	691 hrs	
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%	
Percentile	99	95	75	50
	9.5	5.8	2.4	1.2
	0.8	0.4	0.3	0.3
	Average		Median	
	2.0 ppb		1.2 ppb	

**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00
1-May-07	9	9	8	7	7	7	6	4	2	2	1	1	1	1	1	1	1	1	1	1	1	2	A	A	3	3	3.4	9.0
2-May-07	4	4	3	3	2	3	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	A	3	4	4	4	2.2	4.5
3-May-07	3	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	2	2	2	A	2	2	2	2	1	1.7	3.0
4-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1.0	1.3
5-May-07	0	0	0	A	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.6	1.7
6-May-07	1	A	A	2	1	2	1	1	1	1	1	1	0	1	1	0	1	0	1	1	0	0	1	0	0	1	0.9	2.4
7-May-07	A	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	A	0.7	1.4
8-May-07	3	2	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	A	A	A	2	1.0	2.7
9-May-07	2	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	A	5	3	0.9	4.7
10-May-07	3	2	2	1	1	1	1	2	2	1	1	1	1	1	1	1	0	1	1	1	A	3	3	3	2	1.4	3.3	
11-May-07	2	3	2	1	1	1	2	2	2	2	2	2	2	1	1	1	1	1	1	A	3	2	2	2	4	1.8	3.6	
12-May-07	4	3	2	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	A	A	1	1	1	1	2	2	1.1	3.6
13-May-07	3	4	5	4	3	3	2	1	1	1	1	0	0	1	0	1	A	2	1	5	5	3	2	2	3	2.3	5.5	
14-May-07	3	4	6	4	5	7	6	4	2	1	1	1	1	1	1	A	2	2	1	1	2	3	6	9	7	3.3	9.0	
15-May-07	7	5	3	5	4	5	5	2	2	3	2	1	A	A	1	1	1	1	1	1	2	3	2	2	2	2.8	6.8	
16-May-07	2	3	2	2	3	4	4	3	3	2	1	A	2	1	1	1	1	1	1	1	1	2	2	4	3	1	2.1	3.8
17-May-07	1	1	1	1	1	1	1	1	0	0	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.8
18-May-07	1	1	1	1	1	1	1	1	A	A	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.4
19-May-07	1	1	1	1	1	1	1	1	A	A	2	1	1	1	1	1	1	1	1	1	1	1	2	3	3	2	1.3	2.7
20-May-07	1	1	1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.8
21-May-07	3	3	3	3	A	A	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	3	3	1	1.4	3.2
22-May-07	3	2	2	A	A	6	5	3	1	1	1	1	1	1	1	0	1	0	0	1	0	1	0	1	2	2	1.7	6.3
23-May-07	2	1	A	3	2	3	2	1	1	1	1	C	C	C	C	A	2	1	1	1	1	1	1	1	5	7	2.1	7.3
24-May-07	4	6	10	A	A	6	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	3	9	5	3	2.8	10.1
25-May-07	5	3	3	A	5	3	3	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	3	5	5	4	2.5	5.3
26-May-07	3	A	A	5	4	4	3	3	2	2	2	1	1	1	1	1	1	1	2	2	3	3	3	10	7	6	3.2	9.5
27-May-07	A	A	6	7	7	5	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	4	4	A	2.7	6.8
28-May-07	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	3	A	A	11	2.0	11.2
29-May-07	10	8	7	6	5	4	3	2	1	1	1	1	0	1	1	1	1	1	1	1	1	A	A	6	4	2.9	9.6	
30-May-07	5	4	3	4	4	4	4	3	2	2	2	1	1	1	1	1	1	1	1	1	1	A	10	7	4	8	3.1	9.7
31-May-07	7	8	6	6	5	6	5	4	1	1	1	1	1	1	1	1	1	1	1	1	A	3	5	12	25	18	5.1	24.6
Hourly Avg	3.3	3.2	3.1	2.8	2.7	2.9	2.6	1.9	1.4	1.2	1.1	0.9	0.8	0.8	0.7	0.8	0.9	0.9	1.1	1.5	2.3	3.3	3.8	3.6				
Hourly Max	9.6	8.9	10.1	6.9	6.9	7.0	6.0	3.9	2.7	2.7	2.0	2.2	2.4	1.4	1.5	2.1	2.5	1.8	5.5	4.9	9.7	11.9	24.6	17.6				

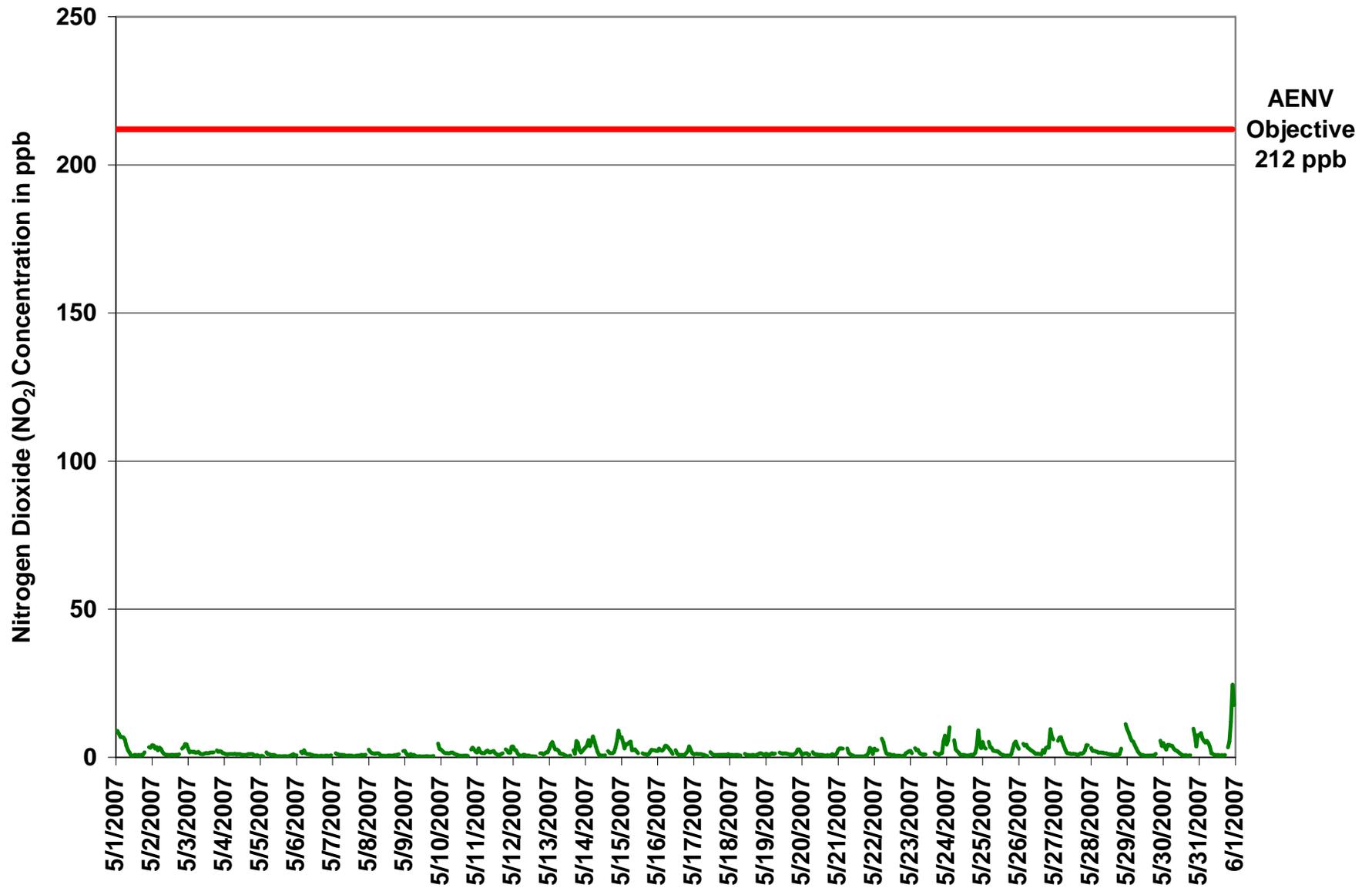


Figure 48. PASZA - Portable-Falher Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Portable-Falher  
 Station Owner: PASZA

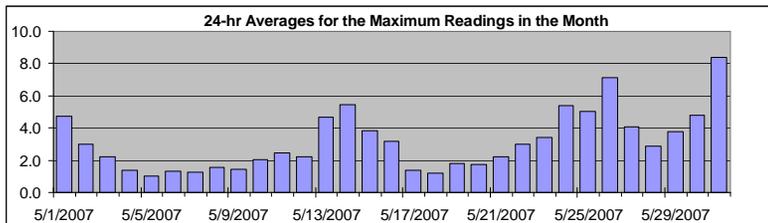
### INSTANTANEOUS (30 Second) MAXIMUM TABLE

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

Monitoring Dates: May 1, 2007 to June 1, 2007

#### Summary

Maximum 1-hr Value:	30.1	ppb	31-May	20:00 21:00
Maximum 24-hr Value:	8.4	ppb	31-May	



AIC Time:	49 hrs	Operational Time:	691 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	19.5	10.1	3.7	1.8	1.1	0.7	0.6	3.2 ppb	1.8 ppb

#### Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-May-07	10	10	15	13	8	9	7	6	3	2	1	1	1	1	1	1	1	1	3	A	A	4	4	4.7	14.9	
2-May-07	5	5	4	4	3	4	4	3	2	1	1	1	1	1	1	1	1	1	2	A	5	5	7	8	3.0	8.4
3-May-07	4	2	3	2	2	2	2	2	2	1	1	2	2	2	2	2	2	A	3	2	2	2	2	2.2	4.1	
4-May-07	2	1	1	1	1	1	4	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1.4	3.7	
5-May-07	1	1	1	A	3	1	2	1	1	1	1	1	1	1	1	0	1	1	1	1	2	2	1	1.0	2.5	
6-May-07	1	A	A	A	2	2	4	2	1	1	2	1	1	1	1	1	1	2	1	1	1	1	1	1.3	3.8	
7-May-07	A	A	2	1	1	1	1	2	1	1	4	3	1	1	1	1	1	1	1	1	1	1	1	1.3	3.7	
8-May-07	5	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	2	1	1	2	A	A	3	1.5	4.6
9-May-07	3	2	1	1	1	1	1	1	1	1	1	0	1	1	1	2	1	1	1	1	A	A	6	4	1.5	6.4
10-May-07	4	3	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	A	5	6	4	2	2.0	5.6
11-May-07	2	4	3	2	2	2	3	3	2	2	2	2	2	1	1	1	1	2	A	3	5	2	2	6	2.4	5.6
12-May-07	4	4	3	2	1	1	2	2	1	1	3	4	1	1	1	0	A	A	2	5	3	3	4	2	2.2	5.2
13-May-07	4	8	8	6	4	3	3	2	2	2	2	1	1	1	3	A	5	2	23	13	7	2	3	4	4.7	23.4
14-May-07	4	7	9	6	6	9	7	5	3	2	1	1	1	1	A	3	2	2	2	15	5	15	13	7	5.5	15.1
15-May-07	8	7	5	6	6	6	7	4	3	3	3	2	A	A	2	1	1	1	2	3	3	3	3	3	3.8	8.4
16-May-07	3	3	3	3	4	5	5	4	4	3	2	A	6	2	1	1	2	1	1	4	3	9	4	2	3.2	8.5
17-May-07	2	1	1	2	1	1	2	1	1	1	A	3	1	1	1	1	1	1	1	1	2	1	1	1	1.4	2.7
18-May-07	1	1	1	1	1	1	1	1	A	A	2	1	1	1	1	1	1	1	1	2	2	2	2	1	1.2	2.0
19-May-07	2	2	1	1	2	1	2	A	A	2	2	1	2	2	1	1	1	1	1	1	3	4	3	3	1.8	3.6
20-May-07	1	2	2	2	1	1	A	3	2	1	1	1	1	1	1	1	1	3	1	4	4	1	1	3	1.7	4.4
21-May-07	3	4	4	4	A	A	4	3	1	1	1	1	1	1	2	0	1	1	1	1	4	5	5	2	2.2	5.0
22-May-07	4	3	4	A	A	9	12	5	2	1	1	1	1	1	1	1	5	4	1	1	1	2	2	3	3.0	11.8
23-May-07	3	2	A	4	3	4	2	1	1	1	1	C	C	C	C	A	2	2	1	2	3	4	12	12	3.4	11.9
24-May-07	6	7	14	A	A	10	5	2	2	2	1	1	1	1	1	1	1	1	4	10	10	21	10	8	5.4	20.9
25-May-07	17	4	4	A	8	4	4	3	3	2	4	3	2	7	1	2	3	5	1	6	12	7	7	6	5.0	16.9
26-May-07	3	A	A	7	5	5	4	5	3	6	3	2	3	2	3	3	13	9	10	16	14	19	10	10	7.1	19.5
27-May-07	A	A	8	10	8	7	5	4	2	3	3	2	6	3	1	1	1	2	2	2	4	6	6	A	4.0	10.0
28-May-07	4	4	3	2	3	2	4	3	2	2	2	1	1	1	1	1	2	1	1	2	6	A	A	15	2.9	15.1
29-May-07	12	11	8	7	6	5	4	3	2	1	1	1	1	1	1	1	1	1	1	3	A	A	7	5	3.8	12.1
30-May-07	6	6	3	6	5	4	6	4	3	3	2	2	2	1	2	2	4	1	1	A	20	10	6	14	4.8	19.6
31-May-07	10	10	10	7	8	9	8	10	2	2	1	1	1	1	1	2	1	1	A	5	30	25	27	22	8.4	30.1
Hourly Avg	4.7	4.3	4.5	3.9	3.5	4.0	3.9	2.9	1.9	1.7	1.7	1.5	1.5	1.4	1.2	1.2	1.9	1.8	2.4	4.0	5.6	6.2	5.4	5.4		
Hourly Max	16.9	10.8	14.9	13.2	8.0	10.1	11.8	10.3	3.7	5.8	3.7	3.7	6.3	7.2	3.5	3.0	12.6	9.4	23.4	15.5	30.1	25.4	27.0	21.8		

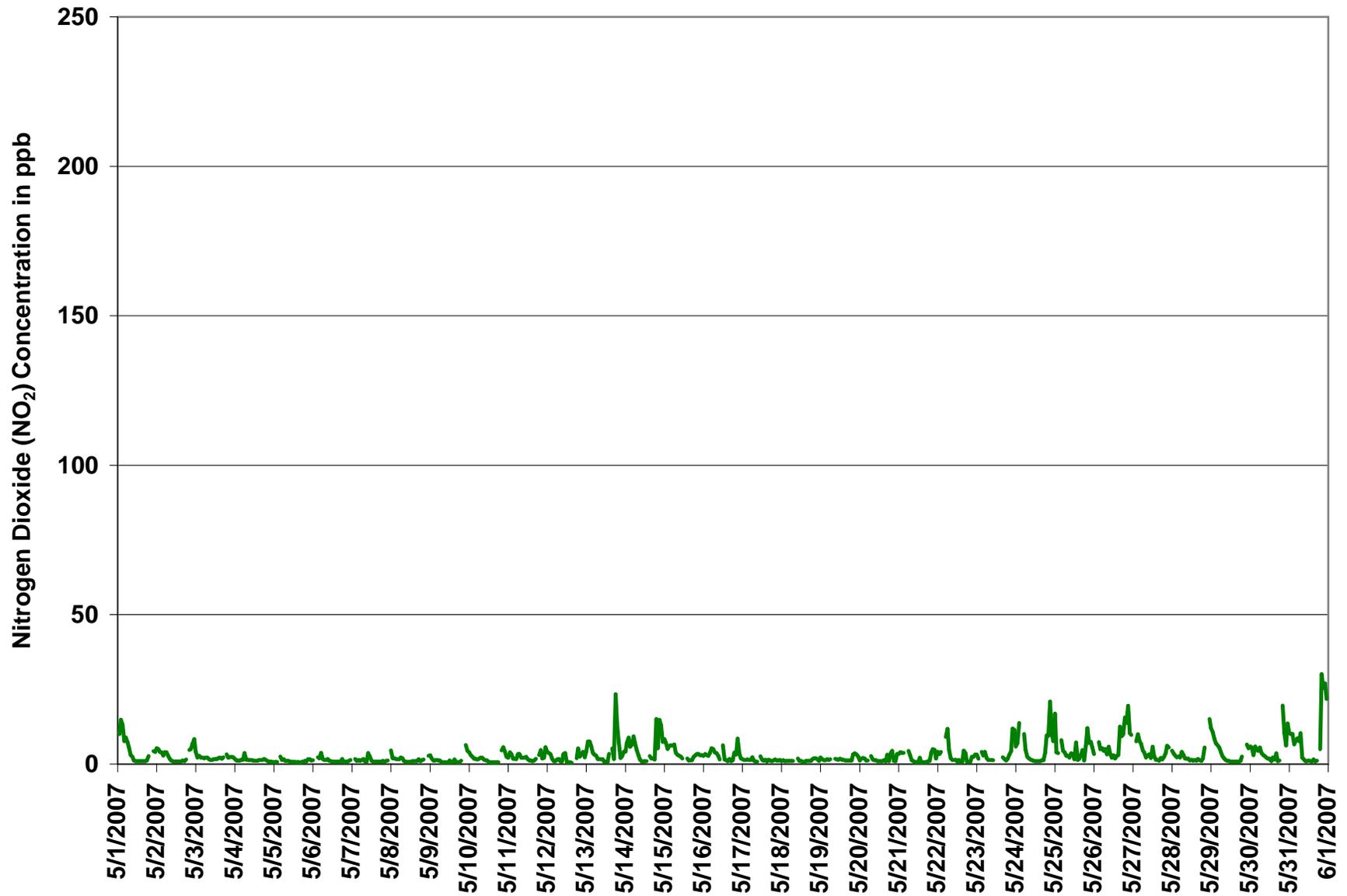
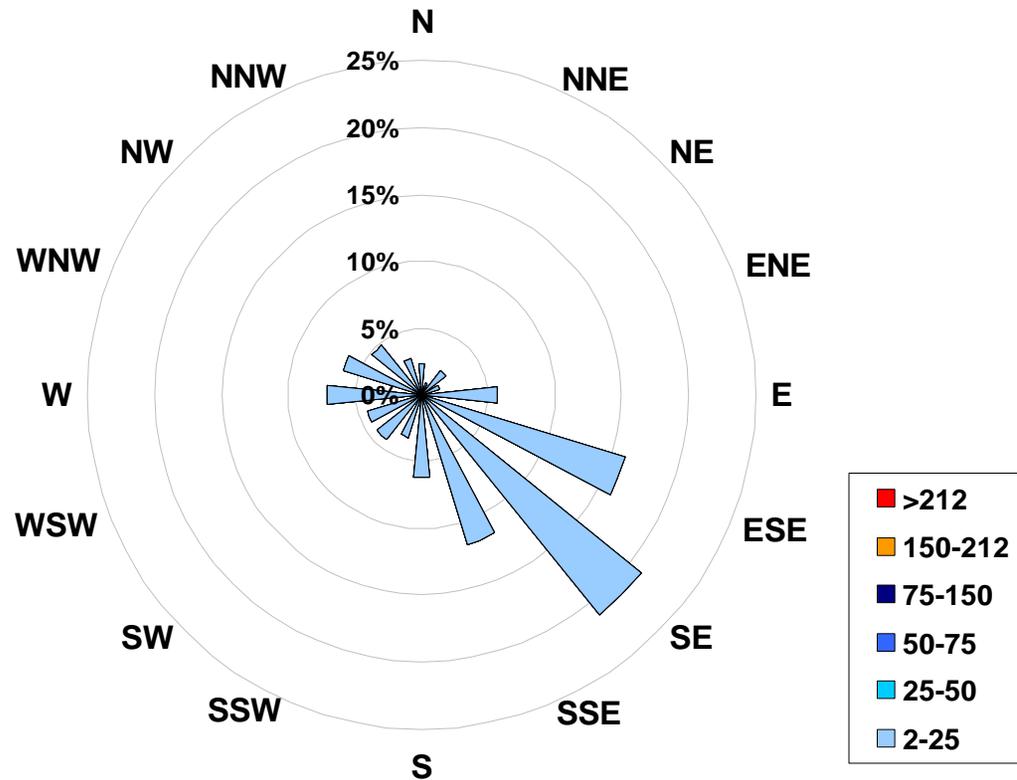


Figure 49. PASZA - Portable-Falher Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Portable-Falher Site for May 2007**



**Calms: 0%**

Frequency Distribution of NO <sub>2</sub> in ppb			
Range		Frequency (hrs)	
2.0	< 25	692	
25	to 50	0	
50	to 75	0	
75	to 150	0	
150	to 212	0	
	> 212	0	
Total Non-Zero Values		692	

PASZA - Portable-Falher - Nitric Oxide Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Nitric Oxide (NO)

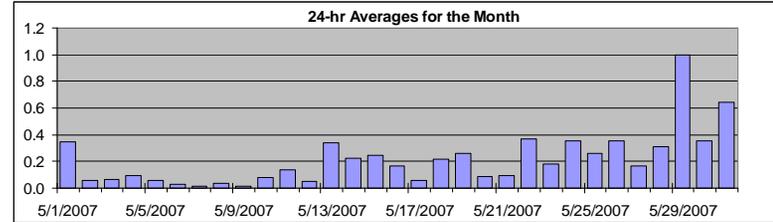
Monitoring Dates: May 1, 2007 to June 1, 2007

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

Summary

Maximum 1-hr Average:	4.6	ppb	29-May	0:00 1:00
Maximum 24-hr Average:	1.0	ppb	29-May	

AIC Time:	48 hrs	Operational Time:	692 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.6	0.8	0.2	0.1	0.0	0.0	0.0	0.2 ppb	0.1 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start 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-May-07	0	0	0	0	0	1	3	2	1	0	0	0	0	0	0	0	0	0	0	A	A	0	0	0.3	3.1	
2-May-07	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
3-May-07	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
4-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
5-May-07	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	0.1
6-May-07	0	A	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
7-May-07	A	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.0	0.1
8-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	A	0	0.0	0.2
9-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	A	0	0	0.0	0.0
10-May-07	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.6
11-May-07	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.1	0.6
12-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	A	0	0	0	0	0	0.0	0.2
13-May-07	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	A	0	0	3	2	1	0	0	0	0.3	2.5
14-May-07	0	0	0	0	0	2	1	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.2	1.8
15-May-07	0	0	0	0	0	0	1	0	1	1	0	0	A	A	0	0	0	0	0	0	0	0	0	0	0.2	1.4
16-May-07	0	0	0	0	0	0	0	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
17-May-07	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
18-May-07	0	0	0	0	0	0	0	0	A	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
19-May-07	0	0	0	0	0	0	0	A	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0.3	0.5
20-May-07	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
21-May-07	0	0	0	0	A	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.8
22-May-07	0	0	0	A	A	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.5
23-May-07	0	0	A	0	0	0	0	0	0	0	0	C	C	C	C	A	0	0	0	0	0	0	0	0	0.2	0.4
24-May-07	0	0	2	A	A	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.0
25-May-07	0	0	0	A	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8
26-May-07	0	A	A	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0.4	2.6
27-May-07	A	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.8
28-May-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	A	3	0.3	2.5
29-May-07	5	4	1	0	1	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	A	A	0	0	1.0	4.6
30-May-07	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.4	1.2
31-May-07	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	1	4	4	0.6	4.2
Hourly Avg	0.2	0.2	0.2	0.1	0.1	0.6	0.7	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.2	0.3		
Hourly Max	4.6	4.1	1.6	0.5	1.1	3.9	3.1	1.5	0.9	0.7	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.3	2.5	2.6	0.5	0.8	4.2	3.7		

## PASZA - Portable-Falher - Oxides of Nitrogen Monthly Summary

### HOURLY AVERAGE TABLE

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

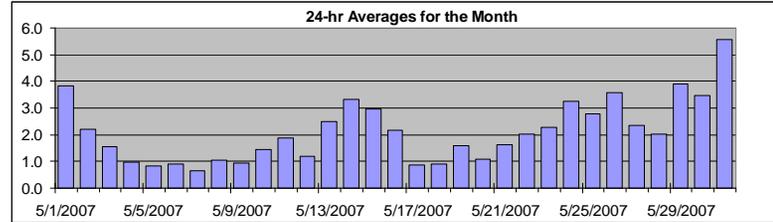
Station: Portable-Falher  
Station Owner: PASZA

Monitoring Dates: May 1, 2007 to June 1, 2007

Guideline Limit: Alberta Environment: 

1-hr	na	ppb
24-hr	na	ppb

Summary				
Maximum 1-hr Average:	28.5	ppb	31-May	22:00 23:00
Maximum 24-hr Average:	5.6	ppb	31-May	



AIC Time:	49 hrs	Operational Time:	691 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	10.2	6.7	2.6	1.2	0.8	0.5	0.4	2.1 ppb	1.2 ppb

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																							24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00	23:00
1-May-07	9	9	8	7	7	8	9	5	3	2	1	1	1	1	1	1	1	1	1	2	A	A	3	3	3.8	9.4	
2-May-07	4	4	3	3	2	3	3	2	1	1	1	1	1	1	1	1	1	1	1	A	3	4	5	4	2.2	4.5	
3-May-07	3	2	2	2	2	1	2	2	1	1	1	1	1	1	1	2	1	2	A	2	2	2	2	1	1.6	2.9	
4-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.3
5-May-07	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.7
6-May-07	1	A	A	2	1	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	0.9	2.4
7-May-07	A	A	1	1	1	1	1	1	1	0	1	1	1	0	0	0	1	1	1	1	1	1	1	A	1	0.6	1.2
8-May-07	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	A	2	1.0	2.5	
9-May-07	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	A	5	3	0.9	4.8	
10-May-07	3	2	2	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	A	3	3	3	2	1.4	3.3	
11-May-07	2	3	2	1	1	1	2	3	2	2	2	3	1	1	1	1	1	1	A	3	2	2	2	4	1.9	3.6	
12-May-07	4	3	2	1	1	1	1	1	1	1	1	1	0	0	0	0	A	A	1	1	1	1	2	2	1.2	3.6	
13-May-07	3	4	5	4	2	3	3	1	1	1	1	1	0	0	1	A	2	1	8	7	3	1	2	3	2.5	7.8	
14-May-07	3	4	6	4	5	9	7	4	2	1	0	0	0	1	A	2	1	1	1	2	3	5	9	7	3.3	8.8	
15-May-07	7	5	3	4	4	5	7	3	3	3	2	1	A	A	2	1	1	1	1	2	3	3	2	2	3.0	6.7	
16-May-07	2	3	2	2	3	4	4	4	3	2	1	A	2	1	1	1	1	1	1	1	2	4	2	1	2.2	4.1	
17-May-07	1	1	1	1	1	1	1	1	1	0	A	2	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.7	
18-May-07	1	1	1	0	1	1	0	1	A	A	1	1	1	1	1	1	1	1	1	1	2	2	1	1	0.9	1.6	
19-May-07	1	1	1	1	1	1	1	1	A	A	2	2	2	2	2	2	1	1	1	1	1	2	3	3	2	1.6	2.7
20-May-07	1	1	1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.1	1.8	
21-May-07	3	3	3	3	A	A	4	2	1	1	1	1	1	1	1	1	1	1	1	1	2	3	3	1	1.6	4.0	
22-May-07	3	3	3	A	A	9	7	4	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2.0	8.7	
23-May-07	2	1	A	3	2	3	2	2	1	1	1	C	C	C	C	A	2	1	1	1	1	2	6	7	2.3	7.5	
24-May-07	4	6	12	A	A	8	4	3	2	1	1	1	1	1	1	1	1	1	1	2	4	10	5	3	3.3	11.7	
25-May-07	6	3	3	A	6	4	4	3	3	3	3	2	1	1	1	1	1	1	1	1	3	5	5	4	2.8	5.6	
26-May-07	3	A	A	5	4	5	4	4	3	3	2	1	1	1	1	1	3	2	4	6	4	10	7	6	3.6	10.1	
27-May-07	A	A	5	6	7	6	4	2	1	1	1	1	1	1	0	0	1	1	1	1	2	4	4	A	2.3	6.6	
28-May-07	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	A	A	14	2.0	13.5	
29-May-07	14	12	8	6	6	8	6	3	2	1	1	1	1	1	1	1	1	1	1	1	A	A	6	4	3.9	13.9	
30-May-07	5	4	3	4	5	5	5	4	3	3	2	2	1	1	1	1	1	1	1	1	A	10	8	4	8	3.5	10.0
31-May-07	8	9	7	6	5	7	6	4	2	1	1	1	1	1	1	1	1	1	1	A	3	6	13	29	18	5.6	28.5
Hourly Avg	3.5	3.3	3.2	2.8	2.7	3.4	3.2	2.3	1.7	1.4	1.2	1.0	0.9	0.8	0.8	0.8	0.8	1.0	0.9	1.2	1.7	2.3	3.4	3.9	3.7		
Hourly Max	13.9	12.1	11.7	7.1	7.0	8.7	9.1	5.4	3.4	3.1	2.7	2.6	2.5	1.8	1.7	1.8	2.9	1.8	7.8	7.2	10.0	12.6	28.5	17.9			

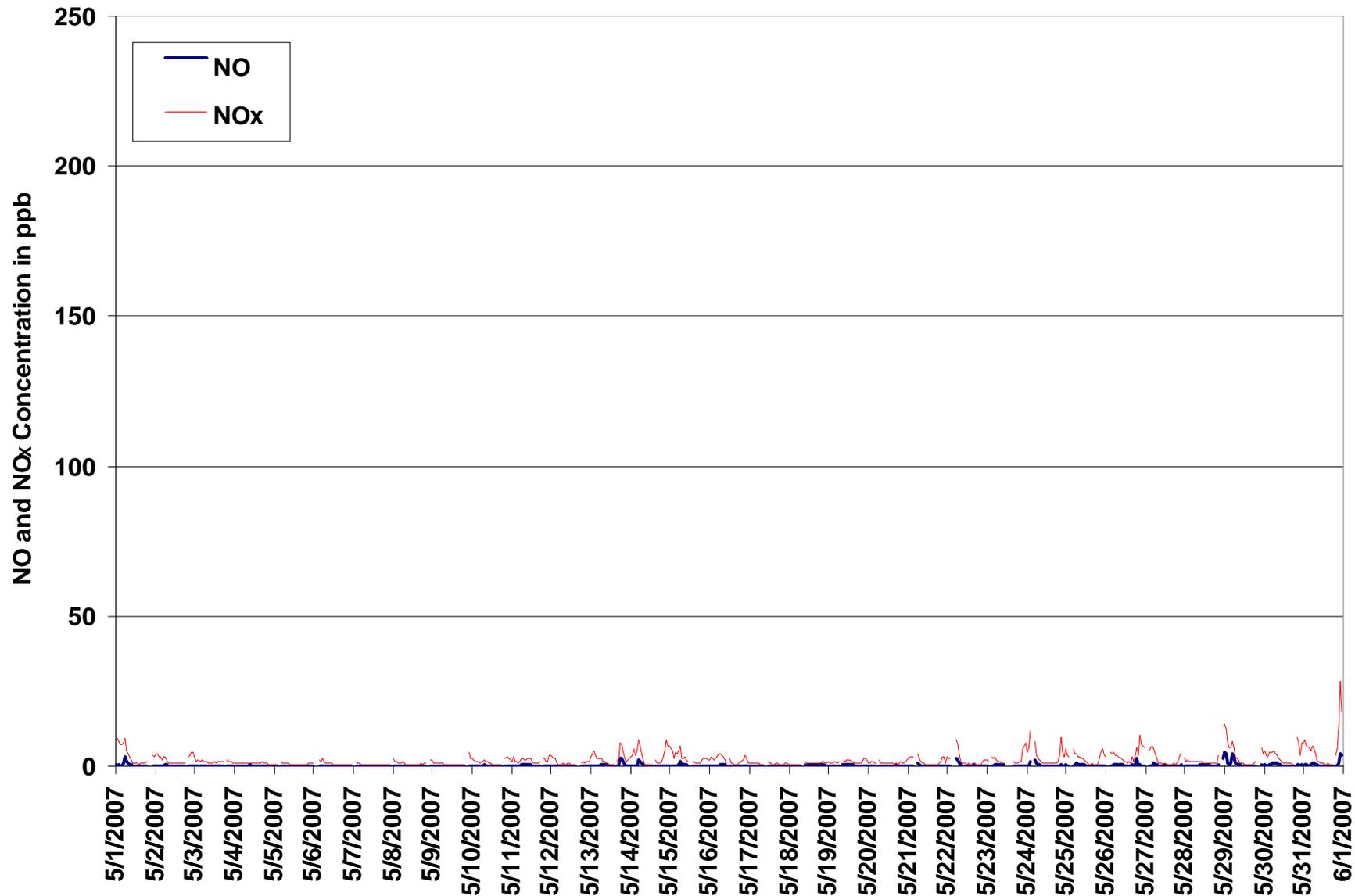


Figure 50. PASZA - Portable-Falher Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Portable-Falher  
 Station Owner: PASZA

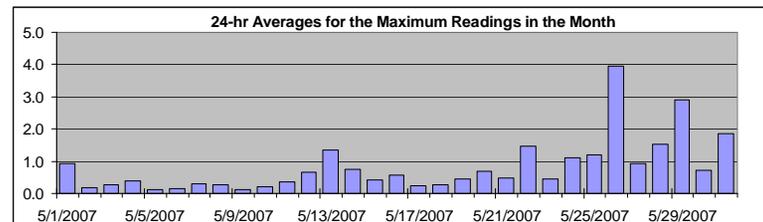
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Nitric Oxide (NO)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	56.6	ppb	26-May	19:00 20:00
Maximum 24-hr Value:	4.0	ppb	26-May	



AIC Time:	48 hrs	Operational Time:	692 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	10.0	3.0	0.6	0.3	0.1	0.0	0.0	0.8 ppb	0.3 ppb

**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum
1-May-07	1	0	3	2	0	2	4	3	1	1	0	0	0	0	0	0	0	0	0	0	A	A	0	0	0.9	4.0
2-May-07	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.2	0.7
3-May-07	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	0.5
4-May-07	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0.4	2.0
5-May-07	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	0.4
6-May-07	0	A	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
7-May-07	A	A	0	0	0	0	0	1	0	0	2	2	1	0	0	0	0	0	0	0	0	0	0	A	0.3	1.8
8-May-07	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	A	0	0.3	1.5
9-May-07	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	A	A	0	0	0	0.1	0.6
10-May-07	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.2	0.9
11-May-07	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	A	0	1	0	0	0	0.3	1.0
12-May-07	1	0	0	0	0	0	0	0	0	0	1	2	0	0	0	A	A	0	2	5	1	1	0	0	0.7	4.8
13-May-07	0	0	0	0	0	1	1	0	1	0	0	0	0	0	1	A	0	0	12	10	3	0	0	1	1.3	12.2
14-May-07	0	0	1	0	0	3	2	1	1	0	0	0	0	0	A	0	0	0	0	7	0	0	0	0	0.7	6.6
15-May-07	0	0	0	0	0	1	2	1	1	1	1	0	A	A	0	0	0	0	0	0	0	0	0	0	0.4	1.9
16-May-07	0	0	0	0	0	0	1	1	1	1	0	A	0	0	0	0	1	0	0	4	0	3	0	0	0.6	4.0
17-May-07	0	0	0	0	0	0	1	0	0	0	A	0	0	0	0	0	2	0	0	0	0	0	0	0	0.2	2.0
18-May-07	0	0	0	0	0	1	0	0	A	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
19-May-07	0	0	0	0	0	0	0	A	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.4	0.8
20-May-07	0	0	0	0	0	0	A	0	0	0	0	0	0	0	1	0	3	0	3	4	0	0	1	0	0.7	4.0
21-May-07	0	1	1	0	A	A	1	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.5	2.8
22-May-07	0	0	1	A	A	4	10	2	0	0	0	0	0	0	0	8	3	0	0	0	0	0	0	0	1.5	10.0
23-May-07	0	0	A	0	0	1	1	0	0	0	0	C	C	C	C	A	0	0	0	0	0	0	2	0	0.5	2.0
24-May-07	0	0	5	A	A	5	2	1	1	0	0	0	0	0	0	0	0	1	1	1	1	3	0	1	1.1	4.7
25-May-07	6	0	0	A	0	1	1	1	1	1	2	1	0	4	0	0	1	1	0	1	4	0	0	0	1.2	6.3
26-May-07	0	A	A	0	0	1	1	2	1	3	1	1	1	0	1	0	5	3	2	57	1	5	1	0	4.0	56.6
27-May-07	A	A	0	0	0	1	1	2	0	2	2	0	6	0	1	0	0	1	0	0	0	1	1	A	0.9	6.1
28-May-07	0	1	0	0	0	0	4	3	0	0	0	0	0	0	1	1	1	0	0	2	1	A	A	15	1.5	14.5
29-May-07	15	24	3	1	2	8	4	2	1	1	0	0	0	0	0	0	0	0	0	0	A	A	0	0	2.9	23.7
30-May-07	0	0	0	0	1	1	2	1	1	1	0	0	0	0	1	0	1	0	0	A	2	1	0	1	0.7	1.9
31-May-07	1	1	1	0	1	3	2	2	0	0	0	0	0	0	0	1	0	0	A	0	2	6	8	10	1.8	10.3
Hourly Avg	1.0	1.2	0.6	0.3	0.3	1.2	1.5	1.1	0.5	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.8	0.5	0.7	3.2	0.9	0.9	0.6	1.1		
Hourly Max	15.4	23.7	4.7	2.3	2.5	7.8	10.0	3.4	1.3	3.3	1.5	2.4	6.1	4.3	0.9	1.3	7.6	3.1	12.2	56.6	4.8	6.5	8.3	14.5		

Station: Portable-Falher  
 Station Owner: PASZA

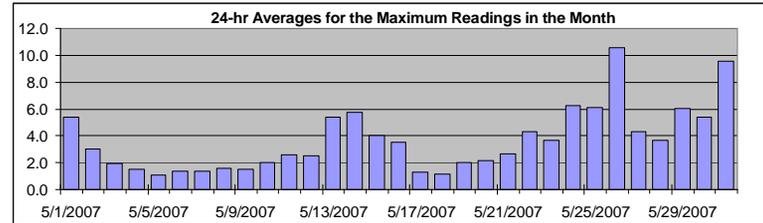
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

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

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	64.1	ppb	26-May	19:00 20:00
Maximum 24-hr Value:	10.6	ppb	26-May	



AIC Time:	49 hrs	Operational Time:	691 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	25.1	11.6	4.2	1.8	1.2	0.7	0.6	3.7 ppb	1.8 ppb

**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-May-07	10	10	17	15	8	9	11	9	4	3	1	1	1	1	1	1	1	1	1	3	A	A	4	4	5.4	16.7
2-May-07	5	5	4	4	3	4	4	3	2	1	1	1	1	1	1	1	1	1	1	A	5	5	7	8	3.0	8.3
3-May-07	4	2	2	2	2	2	2	2	2	1	1	1	1	1	2	2	2	2	A	3	2	2	2	2	2.0	4.1
4-May-07	1	1	1	1	1	1	5	2	1	1	1	1	1	1	1	3	1	1	3	1	1	1	1	1	1.5	5.4
5-May-07	1	1	1	A	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1.1	2.6
6-May-07	1	A	A	2	2	4	2	1	1	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1.4	3.8
7-May-07	A	A	2	1	1	1	1	2	1	1	5	4	1	1	1	1	1	1	1	1	1	1	1	A	1.3	4.8
8-May-07	4	2	2	1	2	1	4	2	1	1	1	1	1	1	1	1	2	1	1	1	1	A	A	3	1.6	4.5
9-May-07	3	2	1	1	1	1	1	1	1	0	1	1	1	1	1	2	1	1	1	1	A	A	6	4	1.5	6.3
10-May-07	4	3	2	2	1	1	2	3	2	2	1	1	1	1	1	1	1	1	A	5	6	4	2	2.0	5.6	
11-May-07	2	4	3	2	1	2	4	4	3	2	3	3	2	1	1	1	1	2	A	3	5	2	2	6	2.6	5.6
12-May-07	4	4	3	2	1	1	2	2	1	1	5	6	1	1	1	0	A	A	2	6	3	4	4	2	2.5	6.1
13-May-07	4	7	7	6	4	3	3	2	2	1	2	1	1	1	1	A	5	1	33	19	9	2	2	4	5.4	33.0
14-May-07	4	7	9	6	6	12	8	5	3	1	1	1	1	1	A	2	1	2	1	21	5	15	13	7	5.7	21.2
15-May-07	8	7	5	6	6	6	8	5	3	3	3	2	A	A	2	2	1	1	3	3	3	3	3	3	4.0	8.2
16-May-07	3	3	3	3	4	6	5	4	4	3	2	A	7	2	1	1	2	1	1	7	3	11	4	2	3.5	11.4
17-May-07	2	1	1	1	1	1	3	1	1	1	A	3	1	1	2	1	3	1	1	1	1	1	1	1	1.3	2.7
18-May-07	1	1	1	1	1	1	1	1	A	A	2	1	1	1	1	1	1	1	1	1	2	2	2	1	1.2	2.1
19-May-07	2	2	1	1	2	1	2	A	A	2	2	2	2	2	2	2	2	1	1	1	3	4	3	2	2.0	3.7
20-May-07	1	2	2	2	1	1	A	3	2	1	1	1	1	1	1	2	1	5	1	7	6	1	1	5	2.2	6.8
21-May-07	3	5	4	4	A	A	6	6	2	1	1	1	1	3	1	1	1	1	1	1	4	5	5	2	2.6	5.9
22-May-07	4	3	6	A	A	13	22	7	2	1	1	2	1	1	1	1	11	7	1	1	1	2	3	3	4.3	21.6
23-May-07	3	2	A	4	3	5	2	2	2	2	1	C	C	C	C	A	2	2	1	2	3	5	14	12	3.7	14.0
24-May-07	6	7	17	A	A	15	7	3	3	2	1	1	1	1	1	1	1	1	5	11	10	23	11	9	6.3	23.5
25-May-07	23	4	4	A	8	5	5	4	4	3	5	4	2	11	2	2	4	6	1	7	16	8	8	6	6.1	23.3
26-May-07	3	A	A	8	5	6	5	8	4	8	4	3	4	2	4	3	17	12	12	64	15	25	11	10	10.6	64.1
27-May-07	A	A	7	9	7	7	5	5	2	4	4	2	11	2	2	1	1	2	1	2	3	6	6	A	4.3	11.4
28-May-07	4	4	3	2	2	2	7	6	2	2	2	1	1	1	2	1	3	1	1	4	7	A	A	23	3.7	22.7
29-May-07	24	30	10	7	8	12	8	4	3	2	1	1	1	1	1	1	1	1	1	3	A	A	7	6	6.0	29.9
30-May-07	7	6	3	6	5	5	8	5	4	3	2	2	2	1	3	2	5	1	1	A	21	11	6	14	5.4	20.8
31-May-07	10	11	11	7	8	12	10	12	2	2	1	1	1	1	1	2	1	1	A	5	32	28	33	27	9.6	33.1
Hourly Avg	5.3	5.0	4.7	4.0	3.5	4.8	5.1	3.8	2.2	2.1	2.0	1.8	1.8	1.6	1.4	1.3	2.5	2.1	2.9	6.6	6.0	6.7	5.7	5.9		
Hourly Max	24.4	29.9	16.8	15.5	8.4	14.6	21.6	12.4	4.0	8.2	5.1	6.1	11.4	11.4	4.0	3.3	17.3	12.1	33.0	64.1	32.1	27.5	33.1	27.4		

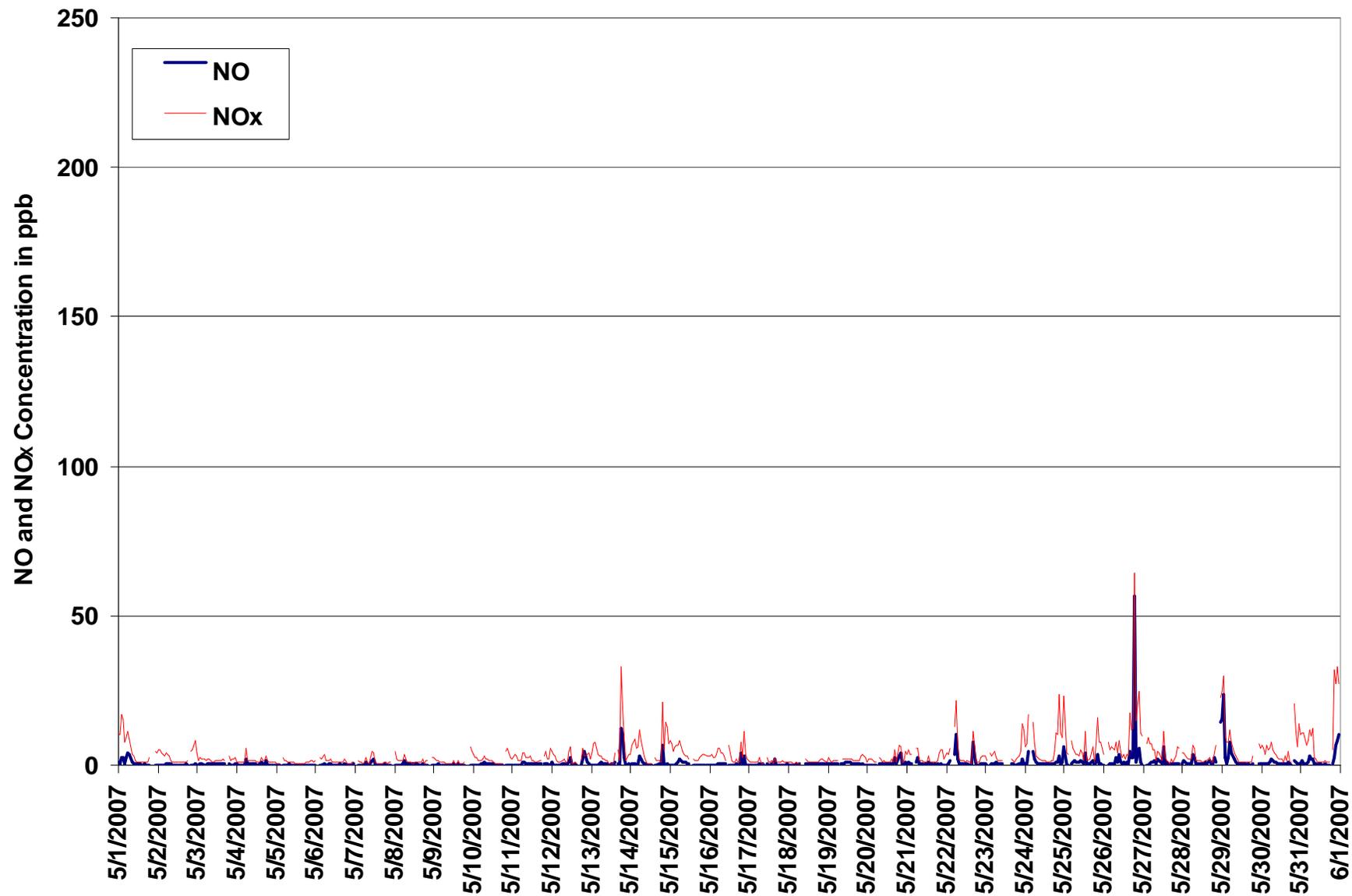


Figure 51. PASZA - Portable-Falher Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

### PASZA - Portable-Falher - Ozone Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

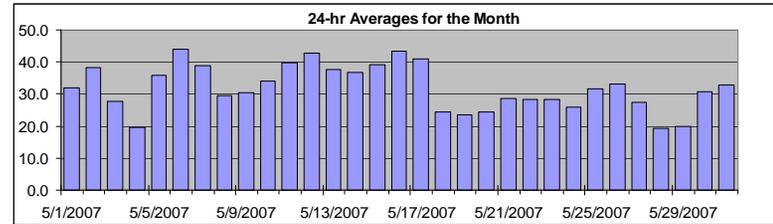
#### HOURLY AVERAGE TABLE

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

Monitoring Dates: May 1, 2007 to June 1, 2007

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

<b>Summary</b>			
Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	57.5 ppb	15-May	18:00 19:00
Maximum 24-hr Average:	44.1 ppb	6-May	



AIC Time:	33 hrs	Operational Time:	709 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%
Percentile	99	95	75
	55.9	52.1	42.0
	31.2	21.3	14.3
	5	1	4.1
	Average		Median
	31.9 ppb		31.2 ppb

**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00
1-May-07	5	9	12	16	9	7	8	20	28	35	42	44	47	50	51	51	52	52	50	44	35	35	A	34	32.0	52.2	
2-May-07	29	29	31	29	29	24	28	37	41	43	44	47	48	49	49	49	49	49	45	39	37	A	26	26	38.2	49.3	
3-May-07	30	30	28	29	29	29	27	29	32	33	33	32	30	31	30	28	26	24	21	20	A	23	22	21	27.6	33.0	
4-May-07	20	20	19	18	17	17	18	18	17	18	19	21	22	22	21	21	22	21	21	20	21	21	21	21	19.7	21.8	
5-May-07	22	21	22	A	22	24	25	27	28	29	36	41	42	43	43	44	43	43	47	49	48	43	41	43	35.9	48.6	
6-May-07	43	44	A	42	41	33	36	41	44	44	47	48	49	49	49	49	47	48	48	47	45	44	43	34	44.1	49.4	
7-May-07	33	A	41	41	41	41	42	43	47	49	50	52	53	53	46	39	35	32	29	27	26	25	23	21	38.7	53.4	
8-May-07	A	21	19	20	19	19	20	21	24	26	28	30	33	32	36	42	38	37	36	35	34	43	38	A	29.7	43.2	
9-May-07	28	35	33	31	31	30	25	25	28	30	30	32	33	32	33	34	34	34	34	32	29	25	A	19	30.3	35.4	
10-May-07	17	17	16	17	16	14	16	21	31	35	39	42	48	48	49	49	50	51	50	49	43	A	32	32	33.9	50.6	
11-May-07	30	27	29	29	27	26	25	29	33	40	43	44	50	55	55	57	56	56	54	49	A	41	40	21	39.8	56.7	
12-May-07	17	19	24	36	45	47	50	49	50	50	50	52	52	50	50	49	49	50	49	A	41	39	35	32	42.8	52.1	
13-May-07	33	19	15	22	24	17	21	36	40	46	48	51	52	55	54	54	54	A	52	40	32	29	21	37.7	54.6		
14-May-07	22	19	16	10	9	7	19	33	45	51	52	54	55	55	55	55	55	A	57	51	40	37	23	22	36.7	57.0	
15-May-07	19	24	28	17	19	18	19	34	39	41	46	50	54	56	56	56	A	57	58	51	43	39	39	38	39.2	57.5	
16-May-07	38	33	40	37	35	30	36	37	40	45	52	57	55	55	55	A	54	53	51	47	38	35	36	41	43.5	56.5	
17-May-07	44	43	39	40	40	42	44	47	48	50	51	51	51	50	A	50	45	36	34	29	28	27	26	25	40.9	51.4	
18-May-07	24	21	20	20	19	21	22	22	22	23	24	24	26	A	30	29	30	28	28	26	22	25	25	29	24.3	30.1	
19-May-07	28	29	28	22	19	18	16	15	15	16	18	21	A	22	26	31	33	36	37	35	29	16	14	18	23.5	37.2	
20-May-07	36	31	28	24	20	21	15	17	19	19	19	A	23	25	29	30	26	23	24	29	25	28	28	24	24.5	35.6	
21-May-07	17	16	17	14	10	9	17	23	29	36	A	40	41	42	43	42	42	42	40	38	29	20	22	31	28.6	42.8	
22-May-07	19	16	16	14	12	7	19	31	36	A	38	32	32	41	41	39	40	41	36	35	34	29	22	20	28.2	41.1	
23-May-07	16	18	20	18	17	16	23	27	A	32	32	34	35	38	38	39	39	37	38	37	32	31	19	18	28.2	38.6	
24-May-07	14	10	4	A	1	9	18	27	32	36	C	C	A	38	38	39	41	42	41	39	30	17	19	18	25.8	42.0	
25-May-07	17	20	19	A	14	15	21	24	27	30	35	38	41	44	45	47	47	48	48	45	33	24	21	23	31.6	48.5	
26-May-07	24	26	A	23	22	21	28	31	35	38	40	44	44	46	44	45	42	41	38	35	29	20	25	23	33.3	46.0	
27-May-07	25	A	19	18	16	14	17	27	34	32	34	36	38	37	35	34	34	35	32	31	27	18	16	20	27.4	38.0	
28-May-07	A	23	21	21	22	22	23	23	21	20	19	18	17	17	17	19	20	21	22	22	16	12	9	A	19.4	23.4	
29-May-07	3	3	3	4	4	4	8	16	21	24	25	27	29	30	32	34	34	35	36	32	18	15	A	16	19.8	36.1	
30-May-07	14	17	17	14	12	15	19	24	28	33	37	42	46	46	45	46	46	46	44	38	27	A	28	21	30.7	46.4	
31-May-07	18	13	17	19	25	20	26	32	37	40	45	48	49	49	49	48	47	48	49	43	A	23	4	6	32.8	48.9	
Hourly Avg	23.5	22.5	22.1	23.1	21.6	20.6	23.6	28.5	32.4	34.8	37.1	39.6	41.3	42.0	41.5	41.6	41.0	40.7	39.9	37.5	32.2	28.1	26.0	24.8			
Hourly Max	43.9	43.6	40.5	41.6	45.3	47.1	49.7	48.6	50.5	50.7	52.5	56.5	55.5	55.9	56.3	56.7	55.6	57.5	57.5	51.9	48.5	44.1	43.0	43.4			

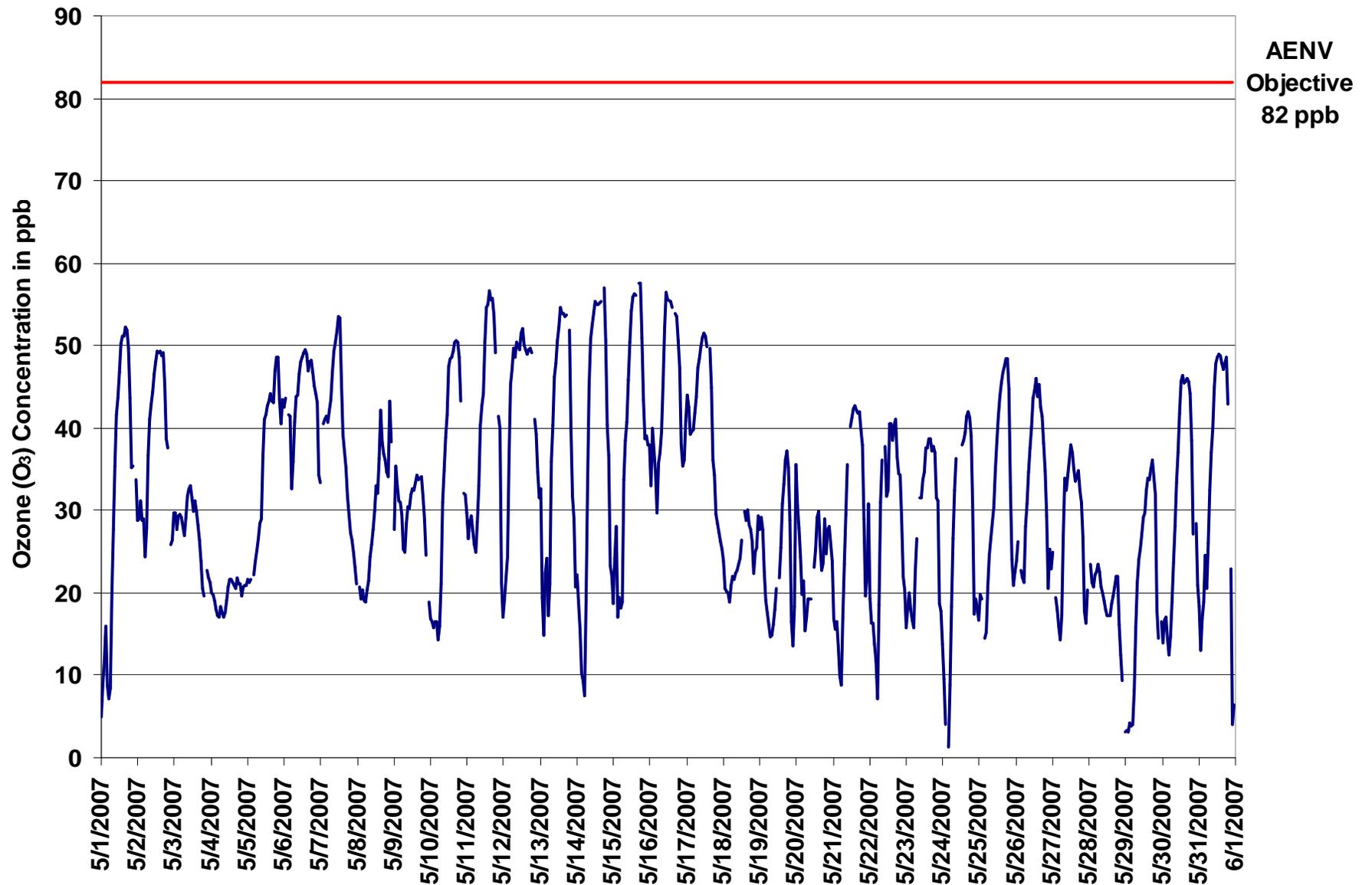


Figure 52. PASZA - Portable-Falher Ozone 1-hr Average Monthly Trend

Station: Portable-Falher  
 Station Owner: PASZA

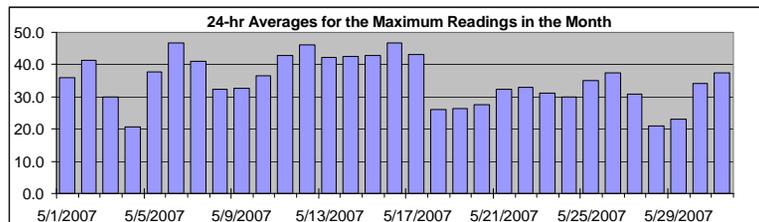
### INSTANTANEOUS (30 Second) MAXIMUM TABLE

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

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	60.3	ppb	13-May	19:00 20:00
Maximum 24-hr Value:	46.8	ppb	16-May	



AIC Time:	33 hrs	Operational Time:	709 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	57.9	55.2	45.0	34.7	24.4	17.7	8.7	35.1 ppb	34.7 ppb

**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-May-07	8	14	20	20	12	11	13	24	32	41	44	46	50	52	53	54	54	54	55	49	43	41	A	36	35.9	55.2
2-May-07	32	32	33	31	32	27	36	40	43	45	46	49	50	51	52	51	51	51	49	44	41	A	31	34	41.3	51.5
3-May-07	36	34	32	32	31	31	29	31	34	35	34	34	32	33	32	30	29	26	23	23	A	24	23	23	30.1	35.6
4-May-07	21	20	20	19	18	19	20	19	18	18	21	22	23	23	22	22	22	22	22	22	21	22	22	22	20.8	22.8
5-May-07	22	22	22	A	23	25	26	28	30	31	40	42	44	44	45	45	45	46	51	50	51	47	43	46	37.7	51.1
6-May-07	44	47	A	44	43	41	40	44	45	47	48	50	50	50	51	51	49	51	50	49	47	48	47	40	46.7	51.3
7-May-07	37	A	43	44	43	43	43	45	49	51	52	54	55	55	51	43	38	33	31	29	28	27	24	23	40.9	55.2
8-May-07	A	22	21	21	21	20	22	23	26	27	30	31	36	35	42	47	41	39	38	37	39	48	48	A	32.3	47.8
9-May-07	31	41	40	34	32	31	29	27	30	31	33	33	34	34	34	35	34	35	35	33	31	29	A	21	32.5	40.9
10-May-07	20	20	18	18	17	17	18	28	36	39	43	46	49	49	50	51	51	51	52	51	50	A	33	34	36.6	51.7
11-May-07	33	29	31	31	29	27	27	31	41	42	45	47	55	57	58	59	58	58	56	54	A	46	44	28	42.8	58.8
12-May-07	21	23	38	44	47	51	52	51	54	52	52	54	55	51	51	50	51	51	51	A	44	43	40	35	46.1	54.7
13-May-07	40	24	22	26	29	24	29	39	44	50	51	52	54	56	56	56	56	56	A	60	47	35	35	28	42.2	60.3
14-May-07	31	35	26	26	13	15	30	40	50	53	54	57	57	56	57	57	57	A	59	58	48	47	27	26	42.4	59.0
15-May-07	22	29	34	24	24	21	23	39	42	43	49	54	57	58	58	58	A	59	60	57	47	43	44	42	43.0	60.3
16-May-07	39	37	42	39	38	32	40	39	44	50	57	59	57	57	57	A	55	55	53	51	46	42	41	46	46.8	58.6
17-May-07	47	46	41	42	41	44	48	49	50	51	53	53	52	52	A	52	50	38	37	31	31	29	28	26	43.0	52.7
18-May-07	26	22	21	22	21	22	23	22	23	24	24	25	28	A	33	31	34	30	30	29	25	26	28	31	26.2	34.3
19-May-07	30	30	30	25	20	19	17	15	16	17	19	22	A	24	29	33	35	38	38	38	36	19	16	42	26.4	41.7
20-May-07	41	35	31	27	21	23	21	21	20	20	23	A	25	30	31	32	31	25	26	34	27	29	30	29	27.6	41.4
21-May-07	22	18	22	16	13	12	21	30	32	38	A	43	43	43	44	44	43	43	43	41	36	25	27	41	32.2	44.0
22-May-07	23	21	21	19	26	15	25	36	38	A	41	41	38	45	42	42	44	44	38	36	36	35	25	25	32.9	44.5
23-May-07	18	20	23	20	20	20	26	29	A	35	34	36	36	40	39	40	40	40	39	38	38	40	25	22	31.1	40.2
24-May-07	21	17	14	A	6	13	23	30	36	40	C	C	A	39	40	42	44	43	44	42	38	24	22	21	30.0	43.7
25-May-07	20	21	23	A	18	17	25	26	29	34	38	41	44	46	48	49	49	50	51	50	42	31	32	24	35.2	50.8
26-May-07	27	28	A	30	25	26	32	33	37	40	43	46	47	48	47	47	49	46	43	41	36	28	30	30	37.4	48.5
27-May-07	29	A	21	20	17	20	20	33	37	35	36	38	40	39	38	36	36	37	35	37	36	24	21	22	30.7	39.6
28-May-07	A	25	23	22	24	24	25	24	23	21	20	19	18	18	18	20	21	22	23	24	21	15	11	A	21.1	25.4
29-May-07	8	6	4	5	5	7	11	20	25	25	26	31	31	34	34	36	35	37	39	37	28	19	A	22	22.9	38.8
30-May-07	20	19	18	19	14	19	23	26	30	36	39	45	48	48	47	48	48	48	46	45	34	A	34	29	34.1	48.5
31-May-07	22	18	21	25	29	26	32	36	39	44	48	50	50	50	50	50	49	50	51	50	A	34	17	21	37.5	50.9
Hourly Avg	27.3	26.0	26.0	26.6	24.3	23.9	27.3	31.7	35.1	37.1	39.5	42.1	43.4	43.9	43.6	43.7	43.3	42.7	42.2	41.3	37.3	32.9	30.3	30.0		
Hourly Max	46.8	46.8	42.6	44.4	47.0	50.8	52.2	51.4	53.8	52.5	57.1	58.6	57.4	57.9	57.9	58.8	57.8	59.2	60.3	60.3	51.1	47.8	47.8	45.9		

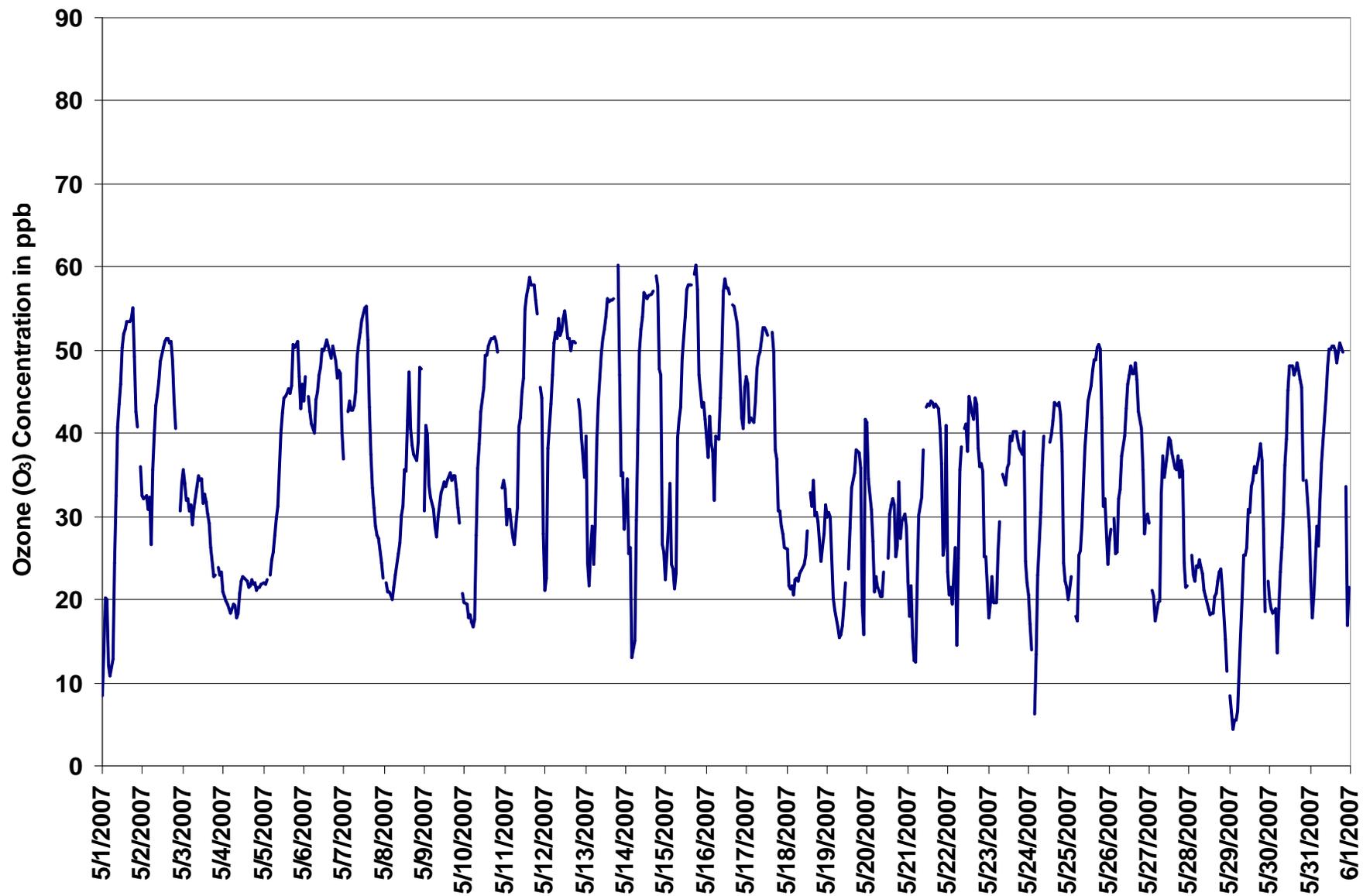
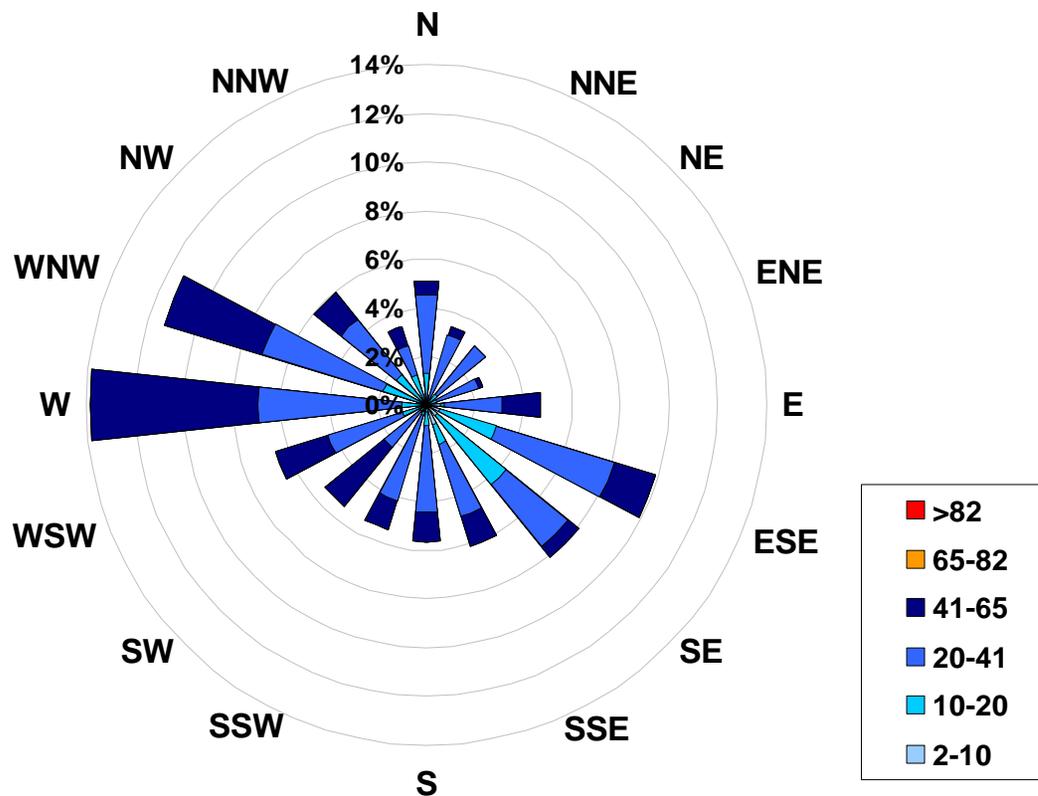


Figure 53. PASZA - Portable-Falher Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Portable-Falher Site for May 2007



Calms: 0%

Frequency Distribution of O <sub>3</sub> in ppb			Frequency (hrs)
Range			
2.0	<	10	24
10	to	20	119
20	to	41	370
41	to	65	196
65	to	82	0
	>	82	0
Total Non-Zero Values			709

## PASZA - Portable-Falher - Ozone Eight Hour Average Summary

Station: Portable-Falher  
 Station Owner: PASZA

### EIGHT HOUR RUNNING AVERAGE TABLE

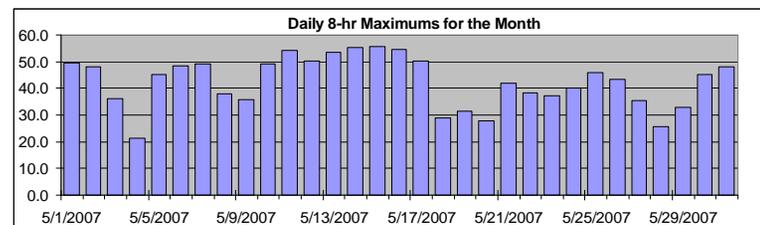
Ozone (O<sub>3</sub>)

Monitoring Dates: May 1, 2007 to June 1, 2007

Objective Limit: Alberta Environment: 8-hr 65 ppb

Number of 8-hr Exceedances:		0	
Maximum 8-hr Average:		55.5 ppb	15-May 19:00 20:00

Percentile							
99	95	75	50	25	5	1	
54.2	50.0	40.9	30.7	22.8	16.8	10.5	



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	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-May-07	35	31	27	24	20	16	13	11	14	17	21	24	29	34	40	43	47	49	50	50	48	46	46	43	49.6	
2-May-07	40	36	34	32	31	29	29	29	31	33	34	37	39	42	45	46	47	48	48	47	46	45	42	39	48.2	
3-May-07	36	33	31	29	28	28	29	29	29	29	30	30	30	31	31	31	30	29	28	26	26	24	23	22	36.1	
4-May-07	21	21	21	20	20	19	19	18	18	18	18	18	19	19	20	20	20	21	21	21	21	21	21	21	21	21.4
5-May-07	21	21	21	21	21	22	22	23	24	25	27	29	31	34	36	38	40	42	43	44	45	45	45	45	45	45.2
6-May-07	45	45	44	43	42	41	40	40	40	40	41	42	43	45	46	47	48	48	48	48	48	48	47	46	45	48.4
7-May-07	43	42	41	40	40	39	39	40	42	43	44	46	47	49	49	49	49	47	45	42	39	36	32	30	27	49.2
8-May-07	26	25	23	22	21	20	20	20	21	21	22	23	25	27	29	31	33	35	36	36	36	38	38	37	37.9	
9-May-07	36	36	35	35	34	32	30	30	30	29	29	29	29	30	31	32	32	33	33	33	33	33	32	32	29	35.8
10-May-07	27	24	22	20	18	16	16	17	18	21	24	27	31	35	39	43	45	47	48	49	49	49	46	44	49.2	
11-May-07	41	38	34	32	29	29	28	28	28	30	32	33	36	40	44	47	50	52	53	54	54	52	50	45	54.3	
12-May-07	40	35	30	29	31	31	33	36	40	44	47	49	50	50	50	50	50	50	50	50	48	47	45	42	50.3	
13-May-07	40	35	30	29	27	25	23	23	24	28	32	35	39	44	48	50	52	53	53	53	52	48	45	40	53.4	
14-May-07	36	31	29	24	20	17	15	17	20	24	28	34	40	46	50	53	54	55	55	55	53	50	45	41	55.2	
15-May-07	36	34	31	26	24	21	21	22	25	27	29	33	38	42	47	50	51	54	55	56	54	51	49	46	55.5	
16-May-07	45	42	40	38	37	36	36	36	36	37	39	41	44	47	50	51	53	54	54	53	50	48	45	44	54.5	
17-May-07	43	42	40	39	40	41	41	42	43	44	45	47	48	49	50	50	50	48	45	42	39	36	35	32	50.2	
18-May-07	29	27	25	24	23	22	21	21	21	22	22	23	23	24	25	27	27	28	28	28	28	27	27	27	28.9	
19-May-07	26	27	27	26	26	25	24	22	20	19	17	17	17	17	19	21	24	27	29	31	31	30	29	27	31.4	
20-May-07	28	27	26	24	23	24	24	24	22	21	19	19	19	20	22	24	25	25	26	26	26	27	26	26	27.7	
21-May-07	25	24	23	21	19	17	15	15	17	19	20	23	28	33	36	39	41	42	42	41	40	37	34	33	41.8	
22-May-07	30	27	24	21	19	17	17	17	19	19	22	25	28	33	36	37	37	38	38	38	38	37	34	32	38.3	
23-May-07	29	26	24	22	20	18	18	19	20	22	23	25	28	31	33	35	35	36	37	37	37	36	34	31	37.4	
24-May-07	28	25	20	18	14	11	11	12	14	18	N	N	N	N	N	N	N	N	N	40	39	36	34	31	39.9	
25-May-07	28	25	23	20	18	18	18	19	20	22	24	26	29	33	36	38	41	43	45	46	45	42	39	36	45.8	
26-May-07	33	30	28	25	23	23	24	25	27	28	30	32	35	38	40	42	43	43	43	42	40	37	35	32	43.4	
27-May-07	30	28	25	23	21	20	19	20	21	22	24	26	29	32	34	35	35	35	35	34	33	31	28	27	35.4	
28-May-07	26	24	22	21	20	21	22	22	22	22	21	21	20	20	19	19	18	18	19	19	19	19	18	17	25.7	
29-May-07	15	13	10	7	6	4	4	6	8	11	13	16	19	23	26	28	29	31	32	33	31	29	29	27	32.8	
30-May-07	24	21	18	16	15	15	16	16	18	20	23	26	30	34	38	40	43	44	45	45	42	42	39	36	45.1	
31-May-07	32	27	23	20	20	20	20	21	24	27	31	34	37	41	44	45	47	48	48	48	47	44	37	31	48.2	
Hourly Max	45.4	44.7	44.4	43.4	42.4	40.8	41.5	42.3	42.8	44.0	47.1	49.0	49.9	50.3	50.2	52.8	54.1	54.6	55.4	55.5	54.3	52.5	50.3	46.4		

## PASZA - Portable-Falher - Total Reduced Sulphur Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

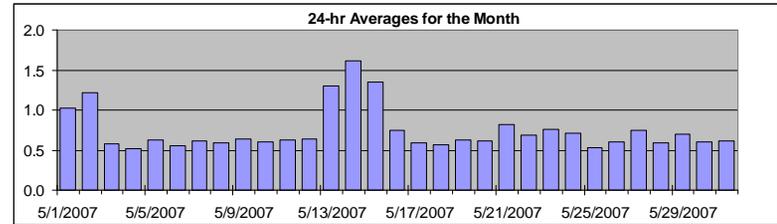
### HOURLY AVERAGE TABLE

### Total Reduced Sulphur (TRS)

Monitoring Dates: May 1, 2007 to June 1, 2007

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

Summary				
Maximum 1-hr Average:	10.6	ppb	2-May	22:00 23:00
Maximum 24-hr Value:	1.6	ppb	14-May	



AIC Time:	34 hrs	Operational Time:	703 hrs
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%
Percentile	99	75	50
	4.2	1.3	0.7
	0.7	0.5	0.5
	0.5	0.4	
	Average		Median
	0.7 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			
1-May-07	0:00	1	1	2	3	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.0	3.4	
2-May-07	1:00	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	A	11	4	1.2	10.6
3-May-07	2:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	A	1	1	1	0.6	0.9
4-May-07	3:00	1	1	1	0	0	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	0	0	1	1	0.5	0.6
5-May-07	4:00	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	0.6	0.9
6-May-07	5:00	0	1	A	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
7-May-07	6:00	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0.6	0.7
8-May-07	7:00	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.6	0.7
9-May-07	8:00	1	1	1	1	1	1	1	0	0	1	0	0	1	0	1	1	1	0	1	0	0	2	A	1	0.6	2.3
10-May-07	9:00	1	0	0	1	0	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	A	1	1	0.6	1.2
11-May-07	10:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	A	1	1	0.6	1.2
12-May-07	11:00	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	A	1	1	3	0.6	2.8
13-May-07	12:00	1	4	10	2	1	2	1	1	1	1	1	1	1	1	1	1	1	0	A	1	1	1	0	1	1.3	9.7
14-May-07	13:00	1	1	5	2	4	6	4	3	1	0	0	0	0	0	0	0	0	A	0	0	1	4	1	1	1.6	6.1
15-May-07	14:00	3	3	6	3	1	1	3	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1.4	6.2
16-May-07	15:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.7	1.1
17-May-07	16:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.6	0.6
18-May-07	17:00	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.6	0.6
19-May-07	18:00	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
20-May-07	19:00	1	1	1	1	1	1	1	1	1	0	1	A	1	1	1	1	1	0	1	1	1	1	1	1	0.6	1.2
21-May-07	20:00	1	1	1	1	1	2	2	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	2.1
22-May-07	21:00	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0	1	1	1	1	2	0.7	2.1
23-May-07	22:00	2	1	0	0	1	1	1	1	A	1	1	C	C	C	A	1	1	1	1	1	1	1	1	1	0.8	2.2
24-May-07	23:00	1	1	1	A	1	1	1	1	1	1	C	C	C	C	A	0	0	0	0	0	0	1	0	0	0.7	1.3
25-May-07	0:00	0	0	0	A	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.5	0.7
26-May-07	1:00	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0.6	1.0
27-May-07	2:00	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.5
28-May-07	3:00	A	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.6	0.9
29-May-07	4:00	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	A	1	0.7	1.4
30-May-07	5:00	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	1	1	A	1	0.6	0.8
31-May-07	6:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	A	1	1	1	0.6	0.9
Hourly Avg		0.9	0.9	1.4	0.9	0.9	1.0	1.0	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.8	1.1	0.8		
Hourly Max		2.7	3.7	9.7	3.4	4.4	6.1	4.2	3.3	1.1	1.0	0.9	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.9	0.8	3.5	10.6	4.3		

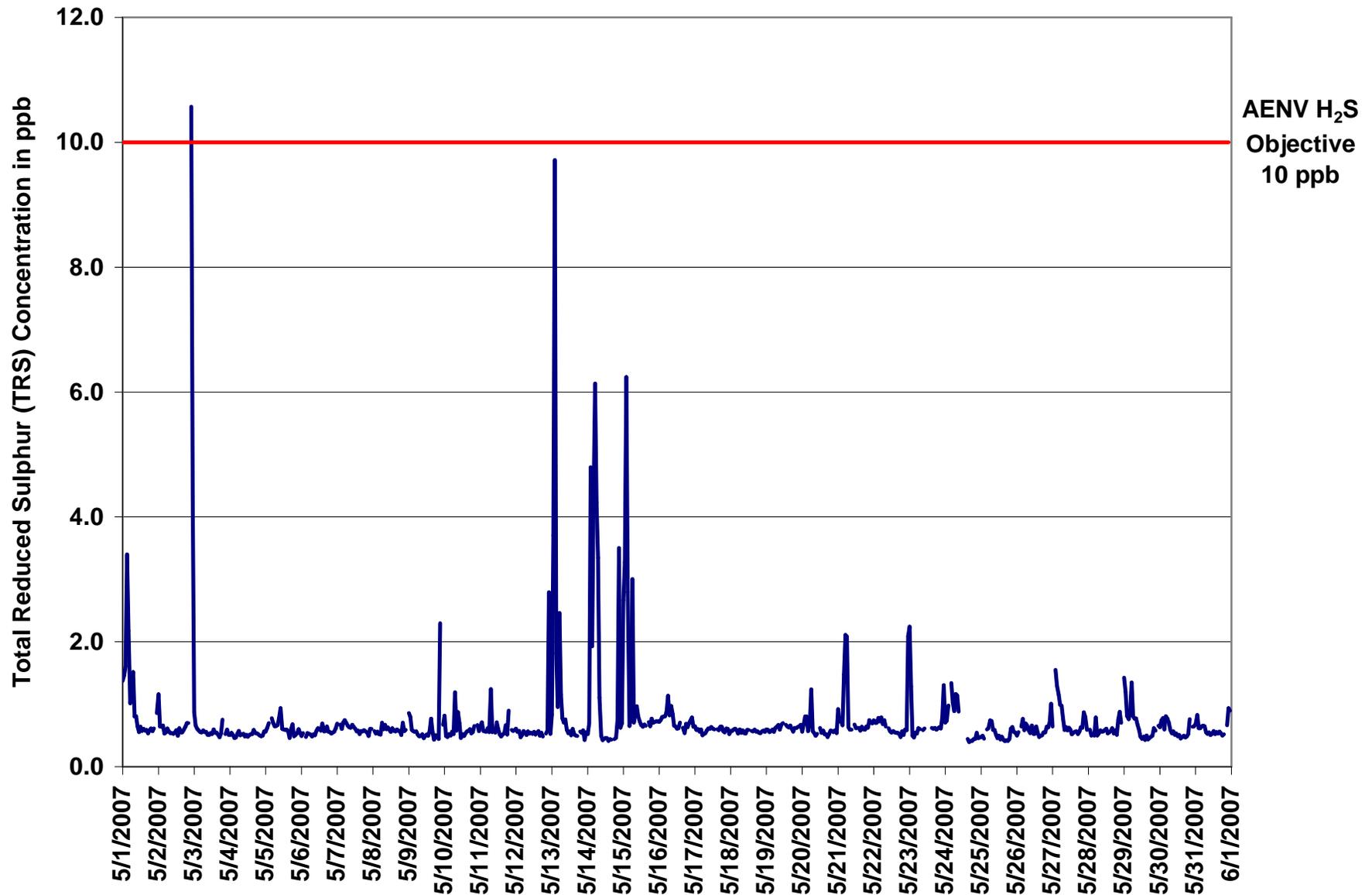


Figure 54. PASZA - Portable-Falher Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Portable-Falher  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

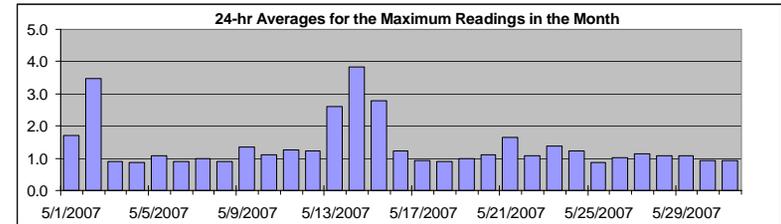
**Total Reduced Sulphur (TRS)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	31.9	ppb	2-May	22:00 23:00
Maximum 24-hr Value:	3.8	ppb	14-May	

AIC Time:	34 hrs	Operational Time:	703 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	9.9	2.8	1.1	0.9	0.9	0.8	0.7	1.4 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-May-07	2	2	4	5	5	2	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.7	5.3
2-May-07	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	32	27	3.5	31.9
3-May-07	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
4-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.0
5-May-07	1	1	1	A	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.9
6-May-07	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
7-May-07	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	1.1
8-May-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.1
9-May-07	1	2	1	1	1	1	1	1	1	1	1	1	1	1	3	2	1	1	1	1	1	8	A	1	1.4	7.9
10-May-07	1	1	1	1	1	1	1	3	1	3	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.1	3.4
11-May-07	1	1	1	1	1	1	1	4	1	1	1	1	1	1	1	1	1	3	1	4	A	1	1	1	1.3	3.8
12-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	7	1	1.2	7.3
13-May-07	2	10	19	5	1	5	2	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	2.6	19.3
14-May-07	1	2	9	9	6	17	14	5	2	1	1	1	1	1	1	1	1	A	1	1	2	10	1	1	3.8	17.5
15-May-07	6	7	13	10	1	1	9	1	1	1	1	1	1	1	1	1	A	1	1	2	1	1	1	1	2.8	12.6
16-May-07	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	A	1	1	2	1	1	2	1	1.2	2.1
17-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.9	1.0
18-May-07	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
19-May-07	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1.0	1.2
20-May-07	1	2	1	1	1	1	3	1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1.1	3.4
21-May-07	2	1	1	1	3	7	7	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1.7	7.4
22-May-07	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1.1	3.3
23-May-07	3	3	1	1	2	2	1	1	A	1	1	C	C	C	A	1	1	1	1	1	1	1	1	2	1.4	3.4
24-May-07	1	1	2	A	2	2	1	2	2	1	C	C	C	C	A	1	1	1	1	1	1	1	1	1	1.2	2.3
25-May-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
26-May-07	1	1	A	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	2	1.0	1.8
27-May-07	1	A	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.1
28-May-07	A	1	1	1	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.1	3.7
29-May-07	2	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.1	2.5
30-May-07	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	1.3
31-May-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.9	1.3
Hourly Avg	1.5	1.7	2.5	1.8	1.5	2.0	2.1	1.4	1.0	1.0	0.9	0.9	0.9	0.9	1.0	0.9	0.9	1.0	0.9	1.0	1.0	1.6	2.4	2.0		
Hourly Max	5.8	10.4	19.3	9.6	6.4	17.5	13.9	5.3	2.3	2.6	1.9	1.6	1.6	1.8	2.7	2.5	1.1	2.5	1.7	3.8	1.7	10.0	31.9	26.5		

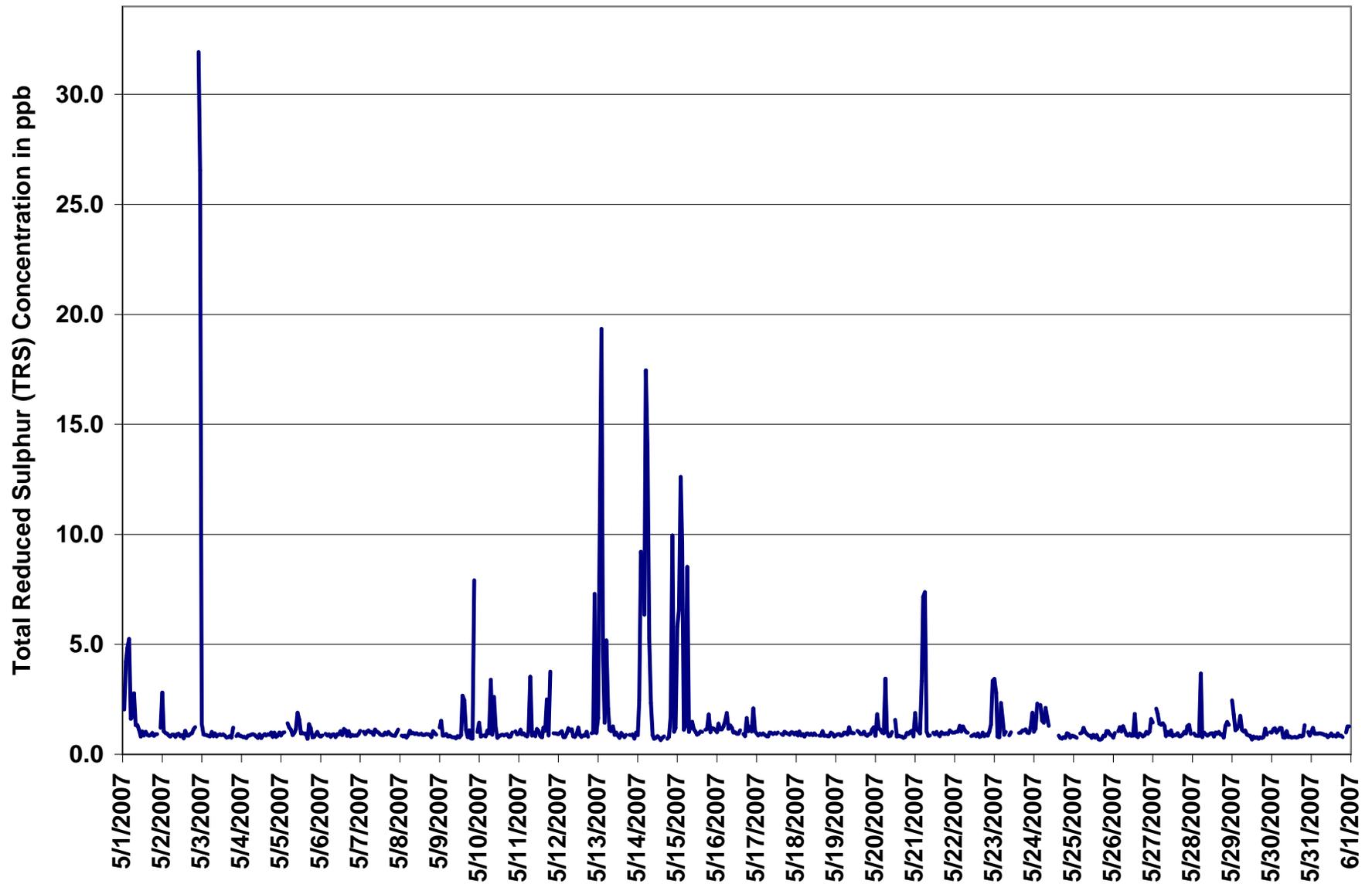
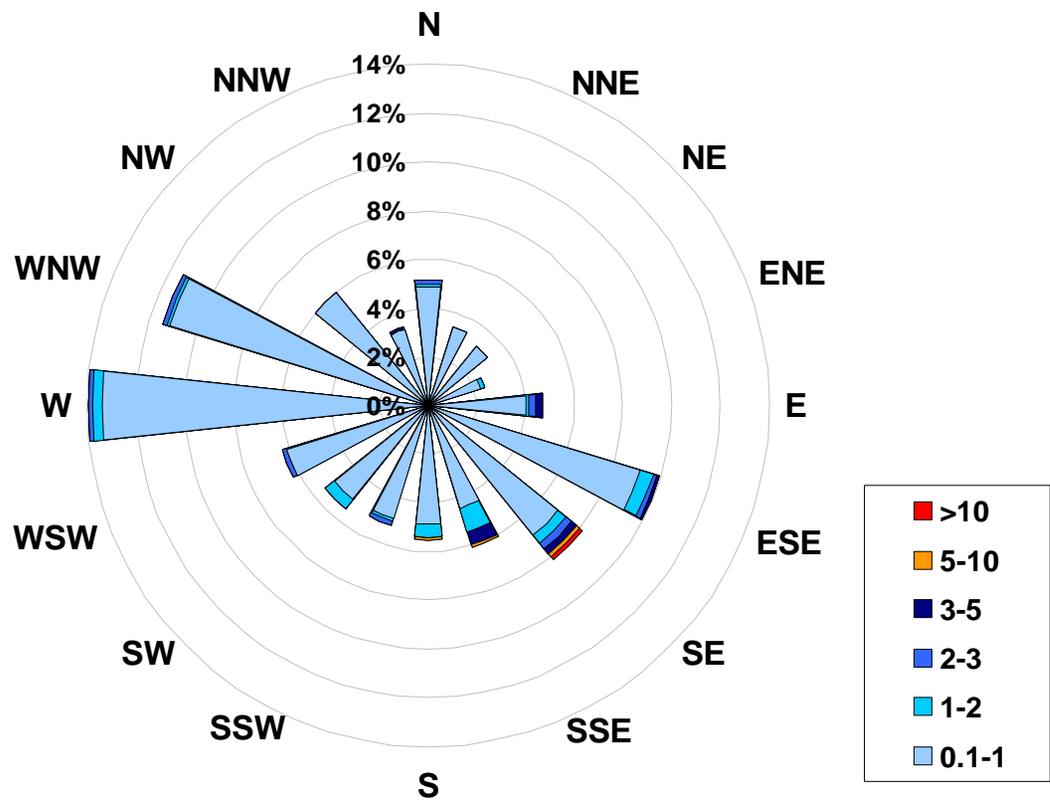


Figure 55. PASZA - Portable-Falher Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)  
Located at the Portable-Falher Site for May 2007**



**Calms: 0%**

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	650
1	to	2	29
2	to	3	10
3	to	5	10
5	to	10	3
	>	10	1
Total Non-Zero Values			703

# PASZA - Portable-Falher - Relative Humidity Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

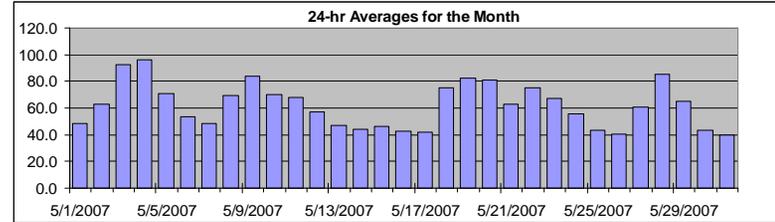
## HOURLY AVERAGE TABLE

## Relative Humidity (RH)

Monitoring Dates: May 1, 2007 to June 1, 2007

### Summary

Maximum 1-hr Average:	99.9 %	29-May	5:00 6:00
Maximum 24-hr Value:	96.1 %	4-May	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	99.3	96.5	81.9	63.7	42.2	24.7	18.8	62.0 %	63.7 %

### 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	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-May-07	0:00	66	65	57	61	70	73	76	64	51	39	30	27	26	26	26	28	29	30	33	44	52	55	65	70	48.5	75.7
2-May-07	1:00	76	77	77	80	82	85	80	72	64	59	54	48	44	42	40	38	39	38	42	50	61	73	88	94	62.6	93.9
3-May-07	2:00	94	95	95	95	95	95	96	95	93	88	84	84	85	81	81	85	92	97	98	98	96	97	98	98	92.3	98.0
4-May-07	3:00	98	98	99	99	99	99	100	100	99	99	96	91	89	90	92	95	96	96	96	97	95	94	96	94	96.1	99.6
5-May-07	4:00	93	94	94	95	94	96	97	95	94	93	89	78	66	57	51	44	45	43	39	40	45	53	56	55	71.2	96.6
6-May-07	5:00	60	59	57	63	66	77	70	60	54	54	50	47	45	45	43	40	41	40	41	44	47	48	67	74	53.7	77.1
7-May-07	6:00	72	51	51	52	53	55	52	49	43	38	36	35	35	36	39	40	41	44	47	52	56	58	62	64	48.4	71.7
8-May-07	7:00	67	67	71	70	74	74	70	67	62	59	57	54	51	61	65	63	67	75	79	77	80	77	83	93	69.2	92.5
9-May-07	8:00	96	95	93	95	95	86	82	82	84	86	82	75	75	85	84	81	76	72	69	76	82	85	90	94	84.2	95.6
10-May-07	9:00	96	96	97	96	96	97	95	88	77	73	67	64	56	51	48	46	43	38	37	38	50	62	85	89	70.2	97.1
11-May-07	10:00	92	93	93	93	93	93	89	79	71	61	57	54	49	41	41	42	57	58	63	65	62	49	53	76	67.7	93.3
12-May-07	11:00	83	84	80	67	75	79	86	88	85	70	51	39	35	36	32	34	35	33	34	35	43	47	55	65	57.2	88.5
13-May-07	12:00	61	74	79	70	73	80	77	56	46	36	32	27	25	23	25	24	25	25	24	25	37	53	55	67	46.6	79.7
14-May-07	13:00	61	66	72	79	83	83	72	53	38	30	27	25	23	23	22	23	24	23	23	27	38	40	50	60	44.4	82.9
15-May-07	14:00	66	63	63	74	71	74	73	56	47	42	36	30	25	25	26	26	25	26	26	31	43	52	54	58	46.3	74.1
16-May-07	15:00	59	64	63	68	71	74	63	59	50	39	28	20	20	21	21	22	23	24	29	32	42	47	49	45	43.0	73.7
17-May-07	16:00	45	47	51	51	51	47	42	35	33	33	32	32	30	28	27	26	32	42	43	49	53	57	59	63	42.0	62.8
18-May-07	17:00	69	74	75	76	80	79	80	79	74	70	68	67	64	66	71	79	82	82	81	79	80	76	77	78	75.2	81.7
19-May-07	18:00	88	91	93	92	92	93	92	92	93	94	93	90	88	86	78	67	65	58	55	60	68	82	84	86	82.5	94.2
20-May-07	19:00	88	90	97	98	97	96	97	94	90	87	88	82	78	68	60	57	63	65	64	61	73	82	84	90	81.1	97.5
21-May-07	20:00	97	98	97	98	98	98	93	83	73	58	48	43	39	33	31	32	33	32	39	41	49	63	68	64	62.8	98.4
22-May-07	21:00	77	83	86	91	92	93	85	70	62	55	50	65	88	82	78	76	72	64	72	76	69	67	74	77	75.1	93.3
23-May-07	22:00	83	82	81	85	89	88	80	74	70	68	78	73	66	56	49	45	44	53	49	48	51	52	70	73	66.9	88.6
24-May-07	23:00	75	78	86	91	92	92	85	71	56	47	41	39	39	37	35	33	31	30	28	30	36	48	62	68	55.4	92.1
25-May-07	0:00	67	67	71	76	79	80	71	62	54	45	37	32	27	21	19	18	16	15	14	16	25	34	44	48	43.3	80.3
26-May-07	1:00	50	48	53	61	65	66	57	48	38	31	29	24	24	24	26	24	26	29	32	35	39	45	47	55	40.7	65.6
27-May-07	2:00	58	67	74	77	80	79	78	69	64	59	50	44	40	39	38	39	38	42	44	65	73	82	82	79	60.9	82.2
28-May-07	3:00	79	78	83	87	84	82	83	88	92	94	95	91	92	94	91	83	78	77	74	71	77	86	94	96	85.5	96.1
29-May-07	4:00	98	99	100	100	100	100	98	87	76	66	57	51	44	42	38	36	35	34	33	33	43	60	65	66	65.0	99.9
30-May-07	5:00	69	68	72	75	81	77	67	59	51	46	42	33	24	21	21	19	18	19	19	20	27	35	36	43	43.4	80.9
31-May-07	6:00	49	56	56	56	52	55	55	52	49	42	33	29	27	26	26	26	25	25	26	28	32	37	46	51	40.0	56.3
Hourly Avg		75.2	76.4	77.9	79.7	81.4	82.0	78.7	71.8	65.5	60.0	55.4	51.4	49.0	47.4	45.9	44.8	45.7	46.0	46.8	49.8	55.6	61.2	67.6	72.1		
Hourly Max		97.9	99.1	99.6	99.8	99.9	99.9	99.6	99.6	99.5	98.9	96.4	91.4	91.7	94.1	92.4	94.7	95.9	96.9	97.7	97.8	96.5	97.3	97.7	98.0		

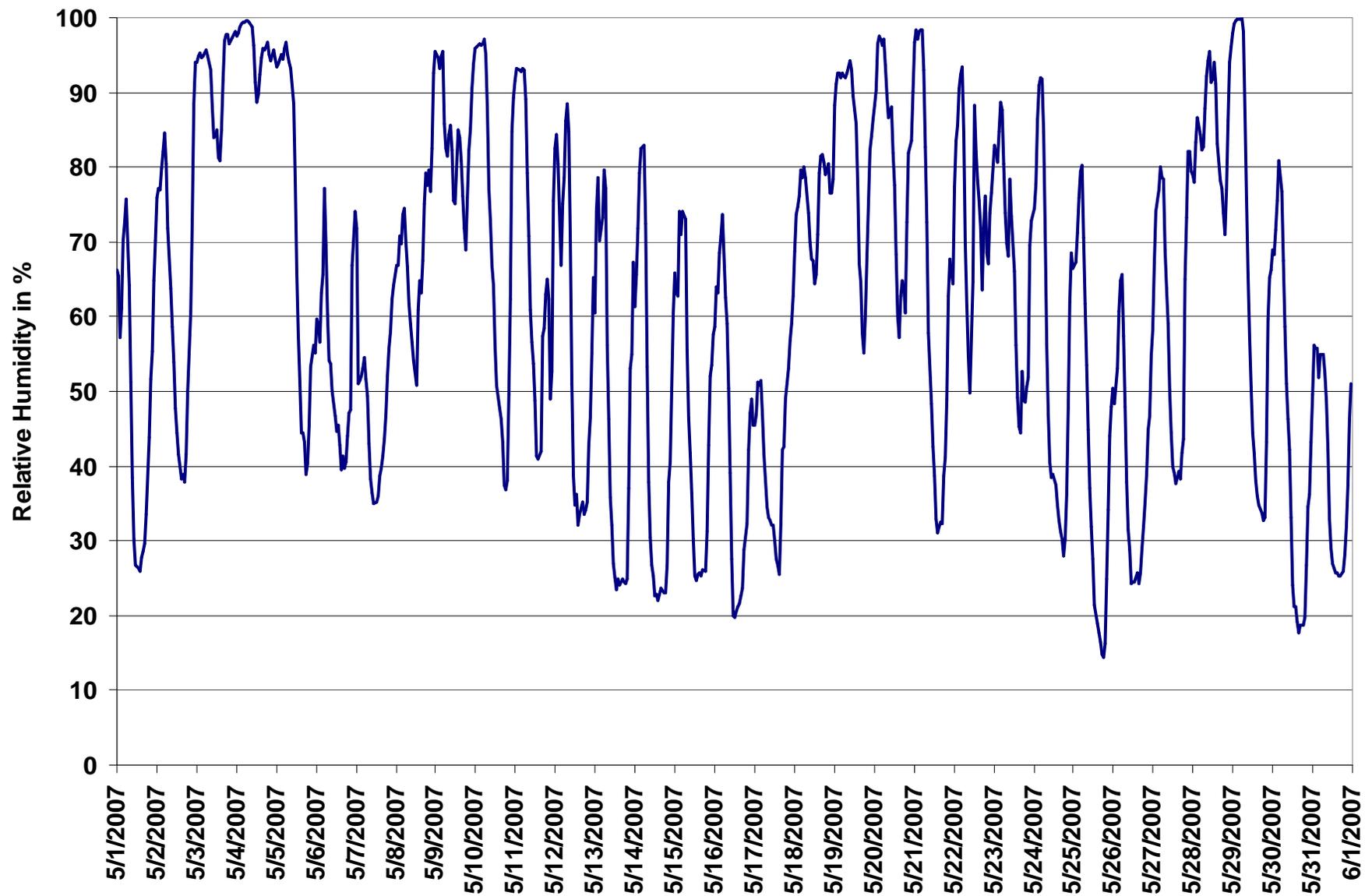


Figure 56. PASZA - Portable-Falher Relative Humidity 1-hr Average Monthly Trend

# PASZA - Portable-Falher - Temperature Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

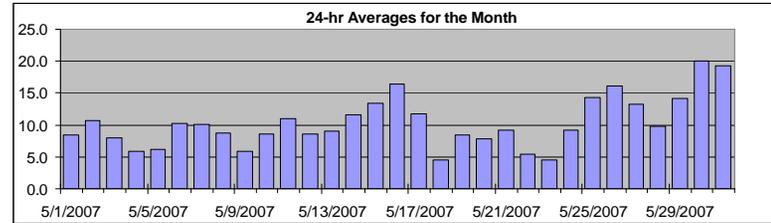
## HOURLY AVERAGE TABLE

## Ambient Temperature (T)

Monitoring Dates: May 1, 2007 to June 1, 2007

### Summary

Maximum 1-hr Average:	27.7 °C	30-May	18:00 19:00
Maximum 24-hr Value:	20.0 °C	30-May	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	25.5	21.8	14.0	9.5	6.1	2.3	0.3	10.4 °C	9.5 °C

### Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-May-07	1	1	2	3	1	1	2	4	7	10	11	12	13	14	14	14	14	14	14	14	12	10	10	9	8	8.5	14.2
2-May-07	7	7	7	6	5	5	5	8	10	11	13	14	15	15	16	16	16	16	16	15	14	12	11	9	9	10.8	15.8
3-May-07	8	8	7	7	7	7	7	7	8	9	9	9	9	10	10	9	8	8	8	8	8	7	7	7	7	7.9	9.7
4-May-07	7	6	6	6	6	6	5	5	5	6	6	7	7	7	7	7	6	6	6	6	6	5	5	5	4	5.9	6.9
5-May-07	4	4	3	3	3	2	2	3	3	4	5	6	8	9	10	11	11	11	11	12	11	9	7	6	6	6.2	11.5
6-May-07	5	5	6	5	5	3	5	8	10	11	13	14	15	15	15	15	15	15	15	15	14	13	11	9	6	10.3	15.2
7-May-07	6	7	6	6	6	6	7	8	9	10	11	11	12	13	14	14	15	15	14	13	12	11	10	10	10.1	14.6	
8-May-07	9	9	8	8	8	7	8	9	10	10	10	11	11	11	10	9	9	8	8	8	8	7	7	6	6	8.8	11.4
9-May-07	6	6	5	5	5	5	5	5	5	5	6	6	7	6	6	6	7	8	8	8	7	6	5	3	5.9	7.9	
10-May-07	3	2	2	2	2	2	3	6	8	8	10	11	12	12	13	13	14	15	15	15	13	11	8	7	8.6	15.0	
11-May-07	6	6	5	5	5	6	7	9	11	13	14	15	16	16	16	16	16	14	15	14	14	13	12	10	7	11.0	16.5
12-May-07	6	5	6	7	6	6	5	5	6	8	10	11	11	11	12	13	12	12	13	12	10	8	6	5	8.7	12.5	
13-May-07	6	3	2	2	1	1	3	6	8	10	12	13	14	14	15	15	15	15	15	14	12	9	8	6	6	9.1	15.0
14-May-07	6	5	4	3	2	3	7	11	13	14	15	16	16	17	17	17	17	17	17	17	17	14	13	10	8	11.6	17.4
15-May-07	7	8	7	6	6	5	7	10	12	14	15	17	18	19	19	20	20	20	20	20	19	16	13	12	11	13.5	20.0
16-May-07	11	10	11	10	9	9	12	13	15	18	21	23	23	23	22	22	22	22	22	20	19	16	14	14	14	16.4	23.1
17-May-07	14	14	12	12	11	10	11	11	12	13	13	14	14	15	15	14	14	13	12	10	9	7	6	5	11.7	14.8	
18-May-07	3	3	3	2	1	1	1	2	4	4	5	6	6	7	6	6	5	6	6	6	6	6	6	6	6	4.5	6.6
19-May-07	6	5	5	5	6	6	6	6	6	6	7	8	9	10	10	12	12	13	13	13	12	9	8	8	8.4	13.1	
20-May-07	7	7	6	6	6	6	6	6	6	6	7	8	9	10	11	11	11	10	10	10	9	8	7	5	7.8	10.9	
21-May-07	3	3	3	2	1	2	4	7	9	11	11	12	13	14	14	14	14	14	14	14	13	11	10	10	9.2	14.5	
22-May-07	7	6	5	4	4	3	6	9	11	12	14	10	3	3	3	4	5	6	5	4	4	2	1	0	5.5	13.9	
23-May-07	0	1	1	-1	-2	-1	1	3	4	5	4	5	6	7	8	9	9	8	9	9	8	7	4	3	4.5	9.0	
24-May-07	2	1	0	0	-1	0	3	6	8	10	10	11	12	14	15	16	16	17	17	17	16	12	10	8	9.1	17.0	
25-May-07	7	7	7	6	5	5	8	10	12	14	16	18	20	21	21	22	22	22	22	22	19	15	12	11	14.4	22.3	
26-May-07	10	11	10	9	8	8	11	14	16	19	21	22	23	23	22	22	21	21	20	19	17	15	14	12	16.1	22.8	
27-May-07	11	9	8	8	7	8	10	12	13	14	16	17	18	18	19	18	18	18	17	14	13	12	11	11	13.3	18.5	
28-May-07	11	9	8	7	7	8	8	9	9	9	9	10	10	10	11	11	12	12	13	13	12	10	9	8	9.8	13.1	
29-May-07	8	6	5	5	4	5	8	11	13	15	16	17	18	19	20	21	22	22	22	22	19	16	14	13	14.2	22.2	
30-May-07	11	12	12	11	9	11	14	16	18	20	22	24	25	26	27	27	28	28	28	28	27	24	23	21	18	20.0	27.7
31-May-07	17	15	14	13	14	14	14	15	16	18	20	21	22	23	24	25	25	26	25	25	23	21	17	15	19.3	25.6	
Hourly Avg	7.0	6.5	6.1	5.5	5.1	5.1	6.5	8.2	9.6	10.8	12.0	12.9	13.4	13.9	14.2	14.5	14.5	14.6	14.4	13.7	12.3	10.6	9.2	8.1			
Hourly Max	16.7	14.7	14.2	13.3	13.6	13.6	14.3	15.6	17.7	19.5	21.5	23.5	25.0	26.1	26.8	27.4	27.7	27.6	27.7	26.6	24.1	22.5	20.9	18.4			

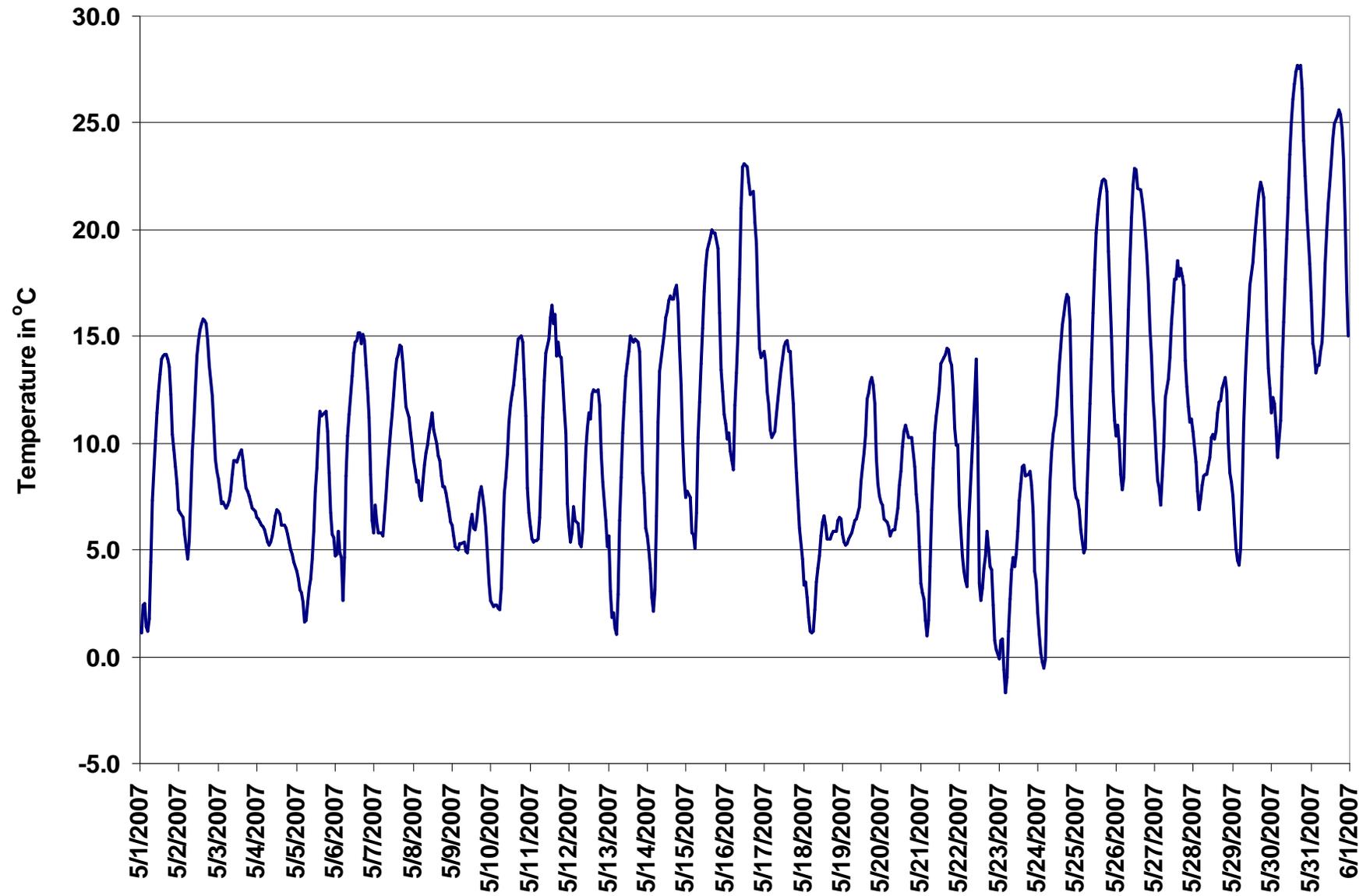


Figure 57. PASZA - Portable-Falher Temperature 1-hr Average Monthly Trend

# PASZA - Portable-Falher - Scalar Wind Speed Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

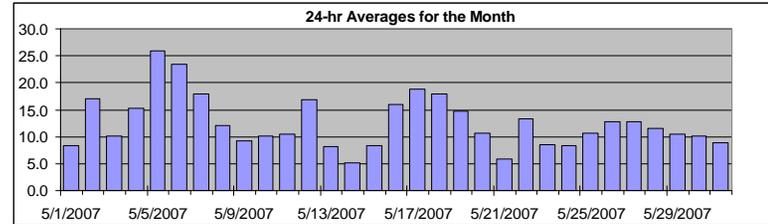
## Wind Speed (WSs)

Monitoring Dates: May 1, 2007 to June 1, 2007

### Summary

Maximum 1-hr Average:	49.0	km/hr	6-May	14:00 15:00
Maximum 24-hr Value:	25.8	km/hr	5-May	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	36.7	25.9	16.2	11.6	6.9	3.5	2.4	12.6 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-May-07	6	4	5	7	5	5	5	8	5	3	10	5	6	7	6	12	9	9	9	16	12	13	15	15	8.3	15.7	
2-May-07	13	14	14	13	11	5	6	21	28	29	26	22	21	22	21	22	24	26	21	14	15	10	5	7	17.0	28.9	
3-May-07	9	9	9	9	10	9	7	9	8	4	3	6	9	12	12	17	18	13	14	16	16	12	9	5	10.2	17.6	
4-May-07	15	13	10	9	8	7	10	10	12	14	16	15	14	15	16	17	17	19	17	19	23	24	22	25	15.3	25.1	
5-May-07	27	27	26	25	29	27	26	27	29	34	39	38	31	36	29	31	23	19	24	21	16	11	11	13	25.8	38.8	
6-May-07	10	13	19	16	14	9	11	18	23	19	26	28	39	42	49	39	27	38	38	30	20	16	14	6	23.5	49.0	
7-May-07	9	16	14	15	13	12	15	17	21	22	21	21	23	21	25	23	21	24	22	19	19	13	13	10	17.9	24.8	
8-May-07	12	12	10	13	12	13	15	15	16	13	10	10	9	19	20	23	18	20	16	3	3	2	4	4	12.1	22.8	
9-May-07	3	6	4	6	9	13	10	11	15	9	6	3	8	17	17	14	12	9	11	13	3	7	7	6	9.2	16.9	
10-May-07	7	7	10	11	12	13	14	16	20	18	13	15	15	11	6	5	5	4	3	2	6	8	10	10	10.1	20.2	
11-May-07	9	10	12	14	14	14	13	9	7	8	6	7	11	9	15	7	22	17	16	8	9	7	3	6	10.5	22.3	
12-May-07	2	5	13	20	23	22	18	8	9	20	22	26	28	23	28	28	29	27	19	15	8	4	4	5	16.9	28.7	
13-May-07	7	5	4	6	4	4	4	8	11	9	8	10	10	9	12	12	14	13	15	9	6	7	5	2	8.1	14.7	
14-May-07	3	3	3	4	4	2	2	3	3	6	7	6	6	7	8	6	4	5	8	5	4	6	7	7	5.1	7.8	
15-May-07	6	7	6	6	6	5	6	8	6	5	9	8	6	7	8	8	7	12	12	10	14	12	13	13	8.4	14.5	
16-May-07	13	13	17	14	13	10	13	12	12	14	20	34	29	27	26	21	16	19	13	11	6	6	9	10	15.9	34.5	
17-May-07	14	13	11	16	17	18	21	25	24	20	18	16	18	18	19	17	17	24	24	25	22	20	18	18	18.8	25.1	
18-May-07	16	21	20	21	17	18	19	17	15	14	14	15	16	16	19	20	22	22	22	19	14	17	17	21	18.0	22.2	
19-May-07	20	22	22	22	23	22	21	21	20	19	21	20	14	15	8	5	5	5	3	6	6	9	11	11	14.7	23.1	
20-May-07	5	4	9	11	14	18	17	19	13	8	6	11	13	15	15	14	15	10	9	6	6	6	6	4	10.7	19.3	
21-May-07	5	4	4	4	3	2	5	5	5	6	8	7	6	7	6	6	6	3	9	10	5	5	8	10	5.8	10.3	
22-May-07	6	7	2	2	3	5	6	5	13	14	15	29	33	34	30	23	18	15	14	13	13	9	4	5	13.3	34.3	
23-May-07	4	5	6	5	7	9	13	15	14	14	15	14	9	9	10	7	7	16	8	7	3	2	3	3	8.5	15.8	
24-May-07	4	2	3	3	4	4	5	5	5	4	6	9	12	13	14	14	14	13	11	11	7	10	15	12	8.4	15.4	
25-May-07	7	8	10	11	10	11	14	16	13	15	15	11	8	8	8	9	7	6	9	9	10	12	12	13	10.6	16.5	
26-May-07	13	13	14	14	10	10	14	14	10	9	9	11	14	15	18	15	19	18	18	14	10	8	9	8	12.8	18.6	
27-May-07	8	7	3	4	4	6	6	17	18	19	18	16	18	15	22	19	18	19	17	18	8	6	10	12	12.8	21.8	
28-May-07	14	16	11	11	14	14	16	17	14	13	12	15	13	12	13	13	10	12	12	9	5	7	5	4	11.6	16.6	
29-May-07	5	5	6	6	6	3	7	9	13	17	16	16	16	13	11	12	11	10	10	11	10	13	12	12	10.4	16.7	
30-May-07	10	12	12	10	11	12	13	14	10	9	8	9	10	13	12	11	14	11	10	5	7	7	8	6	10.2	14.2	
31-May-07	6	8	6	6	4	3	5	9	13	14	13	13	16	12	11	9	11	10	9	10	6	6	7	6	8.9	16.5	
1-hr Average	9.2	10.1	10.2	10.9	10.7	10.5	11.4	13.2	13.7	13.7	14.1	15.1	15.6	16.1	16.6	15.5	14.8	15.1	14.3	12.4	10.1	9.5	9.6	9.4			
Hourly Max	26.6	26.6	25.9	24.9	29.1	26.9	25.5	27.4	29.2	34.0	38.8	38.0	39.3	41.5	49.0	39.5	28.7	37.6	38.5	30.0	22.5	23.7	22.1	25.1			

## PASZA - Portable-Falher - Vector Wind Speed Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

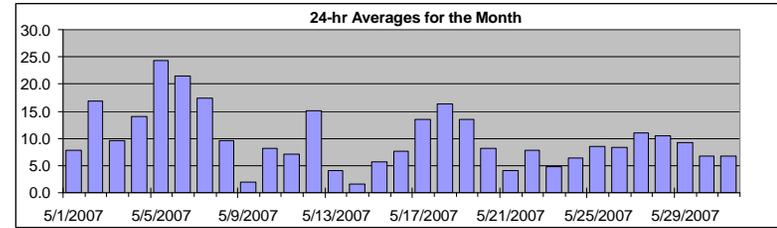
### HOURLY AVERAGE TABLE

### Wind Speed (WSv)

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Average:	48.8	km/hr	6-May	14:00 15:00
Maximum 24-hr Value:	24.3	km/hr	5-May	



Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	36.4	25.5	15.8	11.1	6.2	2.7	1.3	9.1 km/hr

**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
1-May-07	6	4	5	7	5	5	5	8	8	5	2	10	5	5	6	5	9	8	9	7	15	12	13	15	15	7.8	15.1
2-May-07	13	14	14	13	11	5	5	21	28	29	25	22	21	21	20	21	23	25	21	13	15	10	5	6	16.8	28.7	
3-May-07	8	9	9	9	10	9	7	9	8	4	2	6	8	11	12	17	18	13	14	16	16	12	9	3	9.5	17.5	
4-May-07	15	13	10	9	8	5	10	10	12	14	16	15	14	15	16	17	17	19	17	19	22	24	22	25	14.0	25.0	
5-May-07	27	27	26	25	29	27	25	27	29	34	39	38	31	35	29	31	23	19	24	21	16	11	11	13	24.3	38.7	
6-May-07	10	12	19	16	14	9	11	18	23	19	25	28	39	41	49	39	27	37	38	30	20	15	13	5	21.5	48.8	
7-May-07	9	15	14	15	13	12	15	17	21	22	21	21	22	20	24	22	21	24	22	19	19	13	13	10	17.5	24.4	
8-May-07	12	12	10	13	11	13	15	15	16	13	10	9	8	18	20	22	17	20	15	2	2	1	4	4	9.6	22.3	
9-May-07	2	6	4	6	9	12	10	10	15	9	6	1	8	17	16	14	12	8	10	13	3	7	7	6	2.0	16.7	
10-May-07	7	7	10	10	12	13	14	16	20	17	12	15	15	10	3	5	2	3	1	2	4	8	10	10	8.1	20.0	
11-May-07	9	10	12	14	14	14	13	9	7	8	4	6	10	6	15	1	20	17	16	7	8	6	2	6	7.1	20.0	
12-May-07	2	5	13	20	23	22	17	7	9	20	22	25	27	22	27	27	28	27	19	15	8	3	2	3	15.1	28.5	
13-May-07	6	4	4	6	3	3	3	8	11	8	8	8	8	8	11	11	13	12	14	9	6	7	5	2	4.1	14.5	
14-May-07	3	1	1	4	4	1	2	3	3	6	6	4	4	6	5	4	2	2	7	5	3	6	7	7	1.5	7.2	
15-May-07	5	7	6	6	5	5	6	8	6	5	8	7	4	5	6	6	6	12	12	10	14	12	13	13	5.7	14.4	
16-May-07	13	13	17	14	13	10	13	12	11	14	20	34	29	27	26	20	16	18	13	11	6	5	9	10	7.7	34.0	
17-May-07	14	13	11	16	17	18	21	25	23	19	18	15	17	17	18	17	16	23	24	25	22	19	17	18	13.5	24.9	
18-May-07	16	20	20	21	17	18	19	17	15	13	14	14	16	15	18	20	22	22	22	19	14	17	17	20	16.3	22.0	
19-May-07	20	22	22	22	23	21	21	21	20	19	21	20	14	14	8	3	3	4	3	5	6	9	11	5	13.5	23.1	
20-May-07	5	4	9	11	14	18	14	19	12	8	6	9	13	14	15	14	14	10	9	6	5	6	6	4	8.1	19.1	
21-May-07	5	4	4	4	3	2	5	5	4	6	7	5	5	4	4	4	3	0	9	10	5	4	7	9	4.2	10.1	
22-May-07	5	7	1	2	1	5	6	5	13	14	14	21	32	34	30	23	17	14	13	13	12	9	3	5	7.8	34.2	
23-May-07	4	5	6	5	7	8	13	15	13	14	14	14	7	6	10	6	6	12	7	7	3	2	3	2	4.7	14.9	
24-May-07	4	2	3	1	4	4	5	5	4	3	5	7	11	12	13	13	13	13	11	11	7	9	15	12	6.3	15.3	
25-May-07	7	8	10	11	10	11	14	16	13	15	15	10	7	7	7	4	5	4	8	8	10	12	12	13	8.5	16.4	
26-May-07	12	13	13	14	10	10	14	14	10	9	9	10	14	14	18	12	18	17	18	14	10	8	9	8	8.4	18.0	
27-May-07	7	7	3	4	3	5	6	17	18	19	17	16	16	15	21	19	18	18	15	17	7	6	9	12	10.9	21.2	
28-May-07	14	16	11	11	14	14	16	17	13	13	12	14	12	12	13	12	10	11	12	9	5	7	5	3	10.5	16.5	
29-May-07	4	5	6	6	6	3	7	9	13	16	15	15	12	10	10	10	9	10	11	9	13	12	12	9.3	16.4		
30-May-07	10	12	12	10	11	12	13	14	9	8	8	8	9	12	10	9	13	10	10	5	3	5	8	6	6.8	13.7	
31-May-07	6	7	6	6	4	2	4	9	12	14	12	13	16	11	9	8	10	9	9	10	6	6	7	2	6.7	15.9	
1-hr Vector	0.9	0.7	0.8	0.8	0.9	1.1	2.7	4.1	4.9	6.1	6.6	7.9	7.7	8.0	8.5	6.8	4.4	3.5	3.9	3.0	0.3	0.6	1.6	2.0			
Hourly Max	26.5	26.6	25.9	24.8	29.0	26.9	25.5	27.3	29.1	33.9	38.7	37.8	39.1	41.1	48.8	38.9	28.5	37.1	38.4	30.0	22.5	23.7	22.1	25.0			

## PASZA - Portable-Falher - Wind Direction Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**


Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	357.5	330.8	277.8	208.6	123.0	30.8	2.0	254 deg

**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	WD Sector
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-May-07	109	125	123	167	95	91	108	125	112	66	101	113	82	132	95	121	106	86	76	87	85	74	96	116	102	ESE
2-May-07	117	109	110	104	103	104	86	95	102	97	100	95	98	103	106	106	105	107	106	105	137	119	138	89	105	ESE
3-May-07	53	50	39	40	40	37	28	36	48	20	12	359	359	11	0	1	3	1	350	349	32	21	3	358	16	NNE
4-May-07	2	1	352	353	4	338	282	286	282	282	288	285	292	299	294	290	299	303	303	304	309	309	310	312	307	NW
5-May-07	313	312	309	300	292	285	281	278	274	267	265	270	277	271	273	271	275	267	257	249	242	232	226	233	275	W
6-May-07	220	224	250	239	218	170	204	233	242	239	254	261	261	260	262	269	282	265	265	266	270	279	353	271	258	WSW
7-May-07	257	275	269	278	278	277	274	275	281	279	284	282	269	273	268	274	272	258	263	259	241	243	244	247	269	W
8-May-07	245	257	250	257	247	246	259	269	284	283	283	268	280	192	199	199	173	183	205	294	212	276	206	188	234	SW
9-May-07	39	18	308	307	305	344	7	19	48	51	84	277	231	208	171	150	168	170	170	189	168	144	131	117	148	SSE
10-May-07	110	111	115	126	125	124	130	147	167	154	161	186	165	168	219	359	120	232	303	341	89	125	126	117	144	SE
11-May-07	114	120	122	124	121	122	136	151	183	188	174	137	134	220	288	190	183	118	118	149	257	298	94	96	147	SSE
12-May-07	41	347	298	313	311	313	322	319	234	251	268	270	267	283	285	292	296	294	302	304	299	282	357	130	291	WNW
13-May-07	124	150	131	218	197	111	162	227	238	279	272	279	267	295	291	322	330	331	316	315	349	34	41	85	294	WNW
14-May-07	87	138	333	71	95	191	115	157	157	211	205	206	208	223	265	269	28	354	293	305	150	131	114	125	188	S
15-May-07	143	146	151	99	122	132	166	220	239	268	237	275	261	221	168	158	130	160	162	159	127	119	118	120	159	SSE
16-May-07	118	107	122	126	121	128	159	175	214	235	247	257	272	272	268	283	300	289	293	306	336	304	298	275	253	WSW
17-May-07	286	283	277	282	283	288	287	286	289	294	297	297	300	306	319	323	354	28	27	25	32	30	22	20	324	NW
18-May-07	25	48	51	52	53	66	71	71	65	69	63	71	84	106	107	103	99	95	93	90	87	106	124	128	81	E
19-May-07	107	109	105	107	105	104	107	113	118	122	127	137	137	116	112	331	37	28	80	107	140	137	132	152	114	ESE
20-May-07	282	205	224	230	251	247	293	320	339	308	324	289	306	295	291	290	329	344	342	300	1	37	33	311	299	WNW
21-May-07	313	321	331	310	186	199	300	316	339	355	345	7	348	338	328	14	31	82	50	61	87	357	21	24	3	N
22-May-07	358	65	329	264	61	105	128	150	165	183	195	347	8	358	359	358	1	1	20	12	353	321	277	257	1	N
23-May-07	263	274	282	291	261	232	235	254	258	261	269	254	243	210	194	175	185	64	63	34	8	222	289	2	250	WSW
24-May-07	56	99	166	122	172	199	260	278	259	263	218	198	187	191	185	200	188	193	204	185	148	117	122	128	181	S
25-May-07	134	144	136	123	129	125	155	170	168	166	182	206	216	263	183	210	248	222	187	179	135	129	121	122	163	SSE
26-May-07	130	168	151	146	142	141	168	180	208	218	209	239	258	272	294	261	263	256	269	248	242	235	223	232	222	SW
27-May-07	204	221	221	177	175	191	203	243	244	250	246	259	256	281	268	276	285	328	280	298	310	260	268	278	264	W
28-May-07	289	299	292	276	276	277	283	284	279	287	297	306	293	337	331	339	312	305	305	307	283	254	236	148	295	WNW
29-May-07	140	160	152	158	145	150	156	170	180	180	186	183	184	205	214	210	200	204	193	168	132	127	125	133	173	S
30-May-07	117	148	145	128	124	131	161	176	181	200	204	219	216	229	232	219	186	206	215	243	79	269	317	280	187	S
31-May-07	282	248	313	317	321	304	275	297	290	276	289	263	264	261	262	259	260	239	233	225	193	144	126	101	263	W
Hourly Avg	88	136	177	196	194	195	222	234	235	242	245	262	263	263	267	271	277	280	275	285	360	105	101	133		

## PASZA - Portable-Falher - Standard Deviation of Wind Direction Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

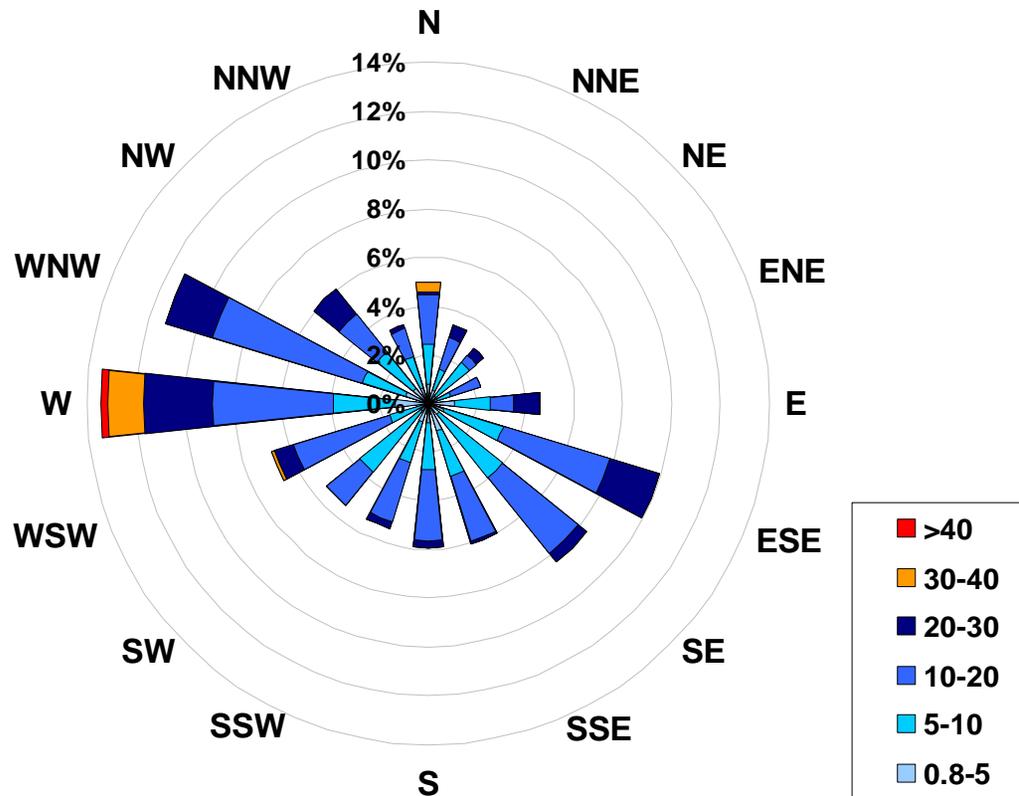

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	54.6	40.1	15.8	8.1	4.4	2.4	1.8

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

Day	Mountain Standard Time																								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-May-07	6	7	11	6	11	8	7	6	17	39	13	29	32	39	32	40	34	24	33	7	3	4	3	2	39.6
2-May-07	3	3	2	2	3	8	40	4	5	6	9	10	12	16	14	8	9	8	4	6	7	6	12	9	40.1
3-May-07	5	2	3	3	3	2	4	4	6	17	41	31	7	9	8	7	4	3	3	5	4	5	6	40	40.5
4-May-07	4	4	3	3	6	17	6	5	4	5	5	4	5	5	4	7	5	4	4	3	3	2	3	3	17.0
5-May-07	3	3	3	4	3	2	3	4	4	3	3	4	5	5	5	7	6	4	5	3	2	2	3	2	7.0
6-May-07	4	9	2	3	3	10	5	4	4	5	9	8	5	6	5	6	7	6	4	3	3	8	10	12	12.2
7-May-07	4	3	2	2	2	3	3	3	5	7	9	8	10	11	9	10	7	6	5	5	3	3	3	3	10.9
8-May-07	3	2	3	2	4	2	3	6	8	8	16	17	19	15	6	5	7	5	19	37	37	27	15	11	37.4
9-May-07	20	10	11	6	6	7	4	5	5	9	20	31	14	8	10	8	9	11	9	3	8	5	8	6	31.3
10-May-07	6	7	3	5	2	3	3	4	4	7	10	14	15	18	42	34	66	39	50	26	11	9	2	2	65.8
11-May-07	3	3	1	2	2	2	3	8	12	14	24	25	19	20	10	39	21	6	5	10	15	7	43	8	43.3
12-May-07	23	13	8	5	3	3	6	13	10	9	10	9	10	7	6	8	8	7	7	4	4	16	31	19	30.9
13-May-07	6	13	18	8	21	15	8	9	11	16	20	29	42	49	23	18	21	16	8	7	8	2	3	55	54.9
14-May-07	22	18	32	17	10	40	18	14	24	19	46	52	57	47	50	46	52	47	21	10	39	5	4	4	57.2
15-May-07	7	4	7	10	10	9	5	16	20	30	26	26	47	51	34	56	43	14	12	4	3	2	4	4	55.9
16-May-07	2	2	2	3	3	5	4	4	12	10	10	8	10	8	10	7	11	13	6	6	5	18	5	6	17.6
17-May-07	4	3	3	2	2	4	5	5	8	10	16	20	14	17	15	10	15	5	3	3	2	4	5	5	19.6
18-May-07	5	3	3	3	2	6	5	7	12	11	11	15	13	17	9	7	5	5	4	3	4	3	4	4	16.9
19-May-07	3	3	3	2	2	3	3	4	3	3	6	10	12	25	43	53	41	27	20	14	7	3	22	22	52.8
20-May-07	11	26	5	4	4	4	11	5	9	8	19	19	12	15	13	13	10	11	9	8	17	12	10	8	26.4
21-May-07	4	9	10	9	15	20	10	17	31	29	27	33	51	54	66	45	56	52	26	8	6	25	9	26	66.1
22-May-07	15	22	21	20	20	12	8	12	10	9	16	27	7	4	5	7	11	14	13	7	13	5	12	5	26.8
23-May-07	7	4	5	6	10	5	6	9	13	14	11	11	35	44	23	29	32	31	18	14	11	9	23	40	44.3
24-May-07	8	16	17	36	24	7	9	18	33	53	40	49	36	20	18	16	20	14	16	9	5	5	2	2	52.8
25-May-07	2	3	8	7	5	5	5	6	10	11	20	36	28	40	55	52	56	33	17	3	3	5	1	1	55.9
26-May-07	5	4	6	3	5	5	4	9	9	16	17	16	17	15	10	19	12	11	6	4	2	4	3	3	19.4
27-May-07	7	3	26	11	22	12	5	7	8	10	15	14	19	10	12	9	9	9	7	7	12	6	4	3	25.5
28-May-07	4	3	3	3	3	4	3	4	4	5	8	6	6	15	7	9	12	7	5	6	7	3	6	13	14.8
29-May-07	17	15	8	4	5	7	6	7	10	10	14	14	19	21	29	24	27	27	15	9	6	2	1	5	29.4
30-May-07	5	3	2	7	5	3	5	8	16	16	22	23	27	19	29	35	28	14	13	11	22	23	7	6	34.9
31-May-07	17	11	7	3	6	30	10	6	9	15	17	16	14	25	28	32	20	35	22	7	4	8	7	53	52.9
Hourly Max	23	26	32	36	24	40	40	18	33	53	46	52	57	54	66	56	66	56	50	37	39	27	43	55	

1-hr Average Wind Rose (in km/hr) Located at the Portable-Falher Site for May 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	86
5	to	10	224
10	to	20	324
20	to	30	93
30	to	40	15
	>	40	2
Total Non-Zero Values			744

# PASZA – Valleyview Station

## Monthly Summary Tables, Graphs, and Roses

### PASZA - Valleyview - Sulphur Dioxide Monthly Summary

Station: Valleyview  
 Station Owner: PASZA

#### HOURLY AVERAGE TABLE

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

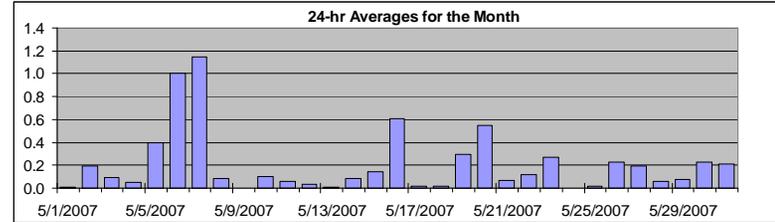
Monitoring Dates: May 1, 2007 to June 1, 2007

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

**Summary**

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	5.6 ppb 6-May 21:00 22:00
Maximum 24-hr Average:	1.1 ppb 7-May

AIC Time:	31 hrs	Operational Time:	709 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.8	1.2	0.2	0.0	0.0	0.0	0.0	0.2 ppb	0.0 ppb



**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-May-07	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
2-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	C	2	1	0	0	0	0	0	0.2	1.8
3-May-07	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
4-May-07	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	0.2
5-May-07	A	0	0	0	0	0	0	0	0	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.1
6-May-07	A	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	2	4	1	1	0	6	5	0	1.0	5.6	
7-May-07	A	0	0	1	1	1	1	1	0	1	3	1	1	2	1	2	4	3	0	1	0	0	0	0	1.1	4.5	
8-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
9-May-07	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
10-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
11-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
12-May-07	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	0.4
13-May-07	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
14-May-07	A	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
15-May-07	A	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	2.8
16-May-07	A	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	4	5	0	0	0	0	0.6	4.9
17-May-07	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	0.3
18-May-07	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	0.2
19-May-07	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	0.3	0.5
20-May-07	A	0	0	1	2	1	1	1	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.8
21-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
22-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
23-May-07	A	0	0	0	0	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.5
24-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
25-May-07	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	0.2
26-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0.2	2.3
27-May-07	A	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0.2	1.8
28-May-07	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.4
29-May-07	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
30-May-07	A	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0
31-May-07	A	0	0	0	0	0	0	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.7
Hourly Avg	N	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.3	0.3	0.2	0.3	0.2	0.3	0.2	0.1		
Hourly Max	0.0	0.5	0.4	0.8	1.8	1.1	1.6	2.5	1.6	2.8	2.6	2.1	2.0	1.9	2.1	2.1	4.5	3.6	1.8	4.4	4.9	5.6	4.7	0.5			

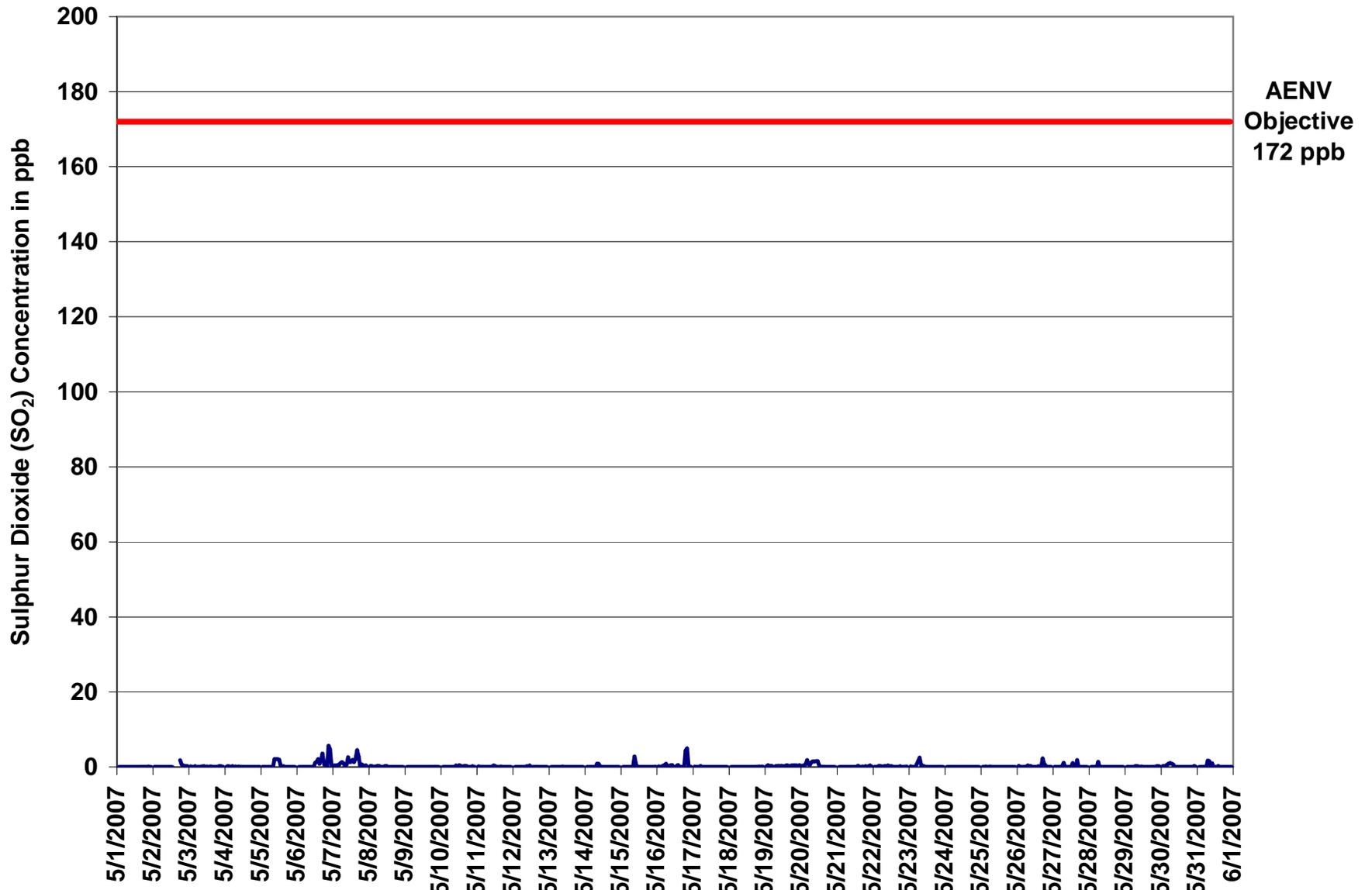


Figure 58. PASZA - Valleyview Sulphur Dioxide 1-hr Average Monthly Trend

Station: Valleyview  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

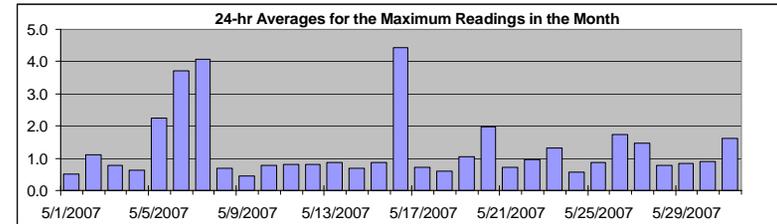
**Sulphur Dioxide (SO<sub>2</sub>)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	39.5	ppb	16-May	19:00 20:00
Maximum 24-hr Value:	4.4	ppb	16-May	

AIC Time:	31 hrs	Operational Time:	709 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	9.7	4.6	1.2	0.8	0.4	0.2	0.0	1.3 ppb	0.8 ppb



**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum
1-May-07	A	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0.5	0.8
2-May-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	C	C	C	C	5	2	1	2	1	1	1.1	5.5
3-May-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	0.8	1.6
4-May-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0.6	1.5
5-May-07	A	1	0	1	0	0	0	1	1	6	7	6	9	4	5	3	1	0	0	1	0	1	1	0	2.2	8.6
6-May-07	A	0	0	0	0	0	0	0	1	1	1	1	5	5	6	6	7	9	4	3	2	15	17	2	3.7	16.8
7-May-07	A	2	1	2	2	2	3	3	1	2	9	8	7	8	6	7	16	11	1	4	1	1	1	1	4.1	16.4
8-May-07	A	2	1	1	1	2	1	1	1	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0.7	1.8
9-May-07	A	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0.5	1.4
10-May-07	A	0	0	0	0	0	0	0	0	0	1	1	2	1	1	1	1	1	1	1	1	1	1	1	0.8	1.8
11-May-07	A	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	0	0	1	0	1	1	1	0.8	1.4
12-May-07	A	0	0	0	0	1	0	0	2	2	1	2	1	1	0	1	1	1	0	0	0	1	1	1	0.8	2.1
13-May-07	A	1	0	0	0	0	0	0	2	5	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0.9	5.2
14-May-07	A	1	1	1	0	0	0	1	2	3	2	1	1	0	1	0	0	0	0	0	0	1	1	1	0.7	2.9
15-May-07	A	1	1	1	1	0	1	1	0	4	1	1	1	0	1	0	0	0	1	1	1	1	1	1	0.9	4.1
16-May-07	A	1	1	1	1	1	1	1	1	3	3	1	1	3	2	1	1	0	1	39	34	1	1	0	4.4	39.5
17-May-07	A	1	1	0	0	1	1	1	1	0	1	1	0	0	1	0	1	1	0	1	1	0	1	1	0.7	1.2
18-May-07	A	1	1	0	0	1	0	0	0	0	1	1	1	0	1	0	0	0	1	0	1	1	1	1	0.6	1.5
19-May-07	A	1	2	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	2	2	1	1	1	2	1.0	1.7
20-May-07	A	2	1	2	3	2	2	3	3	4	9	6	2	0	0	0	0	1	1	0	1	1	0	0	2.0	9.4
21-May-07	A	0	0	0	0	0	0	1	0	1	0	0	0	0	3	1	0	1	1	1	0	1	1	1	0.7	2.6
22-May-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0	1	1	1	1.0	1.5
23-May-07	A	1	0	0	0	2	4	6	2	1	1	1	1	1	1	1	1	0	1	0	1	0	1	1	1.3	6.3
24-May-07	A	0	1	0	1	0	0	0	1	1	1	0	1	1	0	0	0	0	0	0	1	0	0	0	0.6	1.1
25-May-07	A	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	1	1	1	1	0	1	1	0.9	1.1
26-May-07	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	11	8	2	0	0	1	0	1.7	11.2
27-May-07	A	1	0	1	1	1	1	4	1	0	0	0	0	7	1	1	7	5	1	0	1	0	0	2	1.5	6.7
28-May-07	A	1	1	0	2	1	6	1	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0.8	5.6
29-May-07	A	0	0	1	0	0	1	1	1	1	1	1	0	0	1	0	0	0	1	1	1	1	1	1	0.8	1.5
30-May-07	A	1	1	1	1	2	2	1	1	0	0	0	0	1	0	0	0	1	0	0	0	1	1	1	0.9	2.0
31-May-07	A	1	0	1	0	0	1	6	6	2	10	1	1	1	1	1	0	0	0	0	1	0	0	0	1.6	9.7
Hourly Avg	N	1.0	0.7	0.7	0.8	0.8	1.0	1.3	1.2	1.6	2.0	1.4	1.5	1.4	1.3	1.1	1.5	1.7	1.1	2.2	1.9	1.3	1.2	0.8		
Hourly Max	0.0	1.7	1.5	1.7	2.7	2.3	5.6	6.3	6.2	5.7	9.7	7.6	8.6	7.6	6.5	6.7	16.4	11.2	8.2	39.5	33.8	15.5	16.8	2.3		

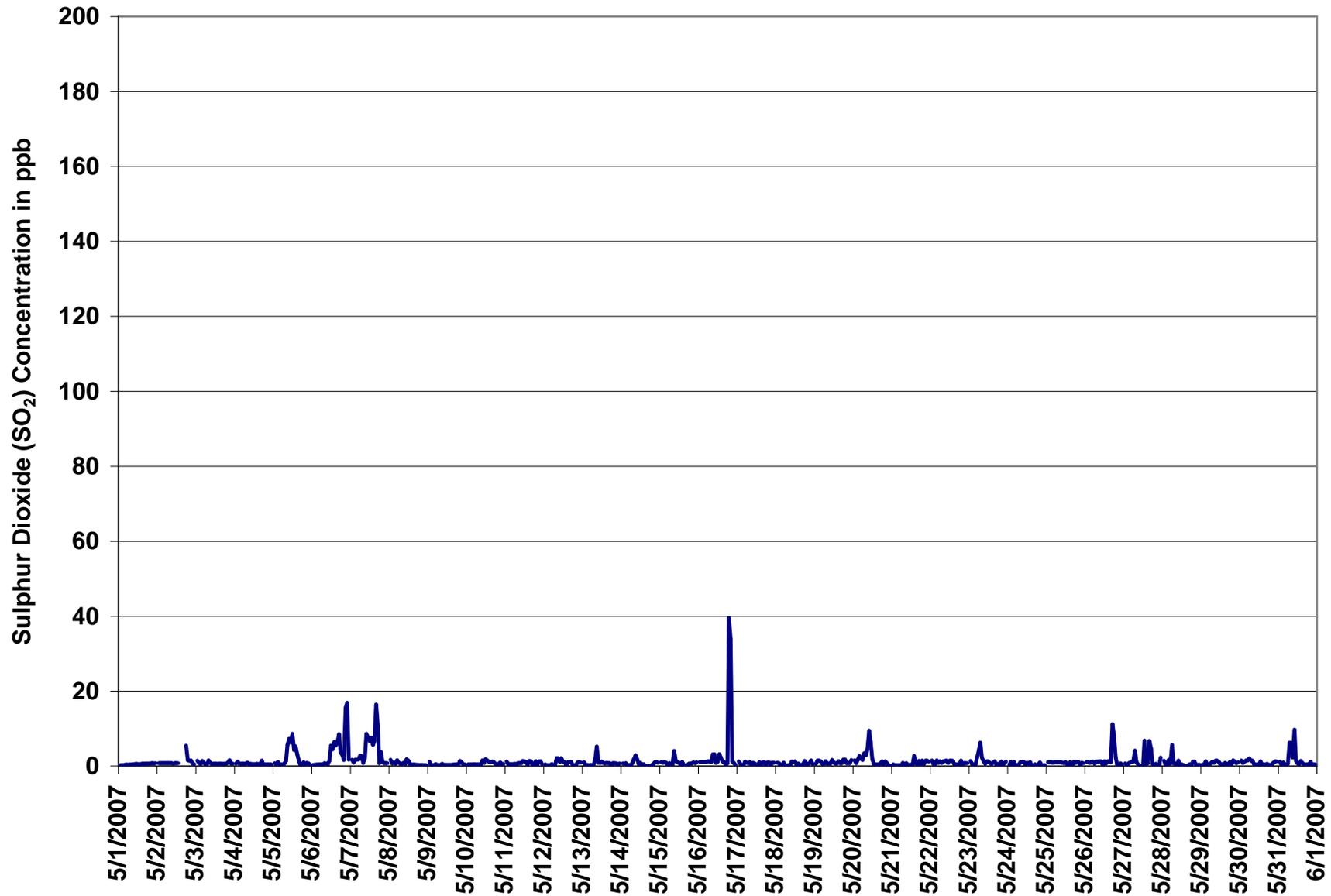
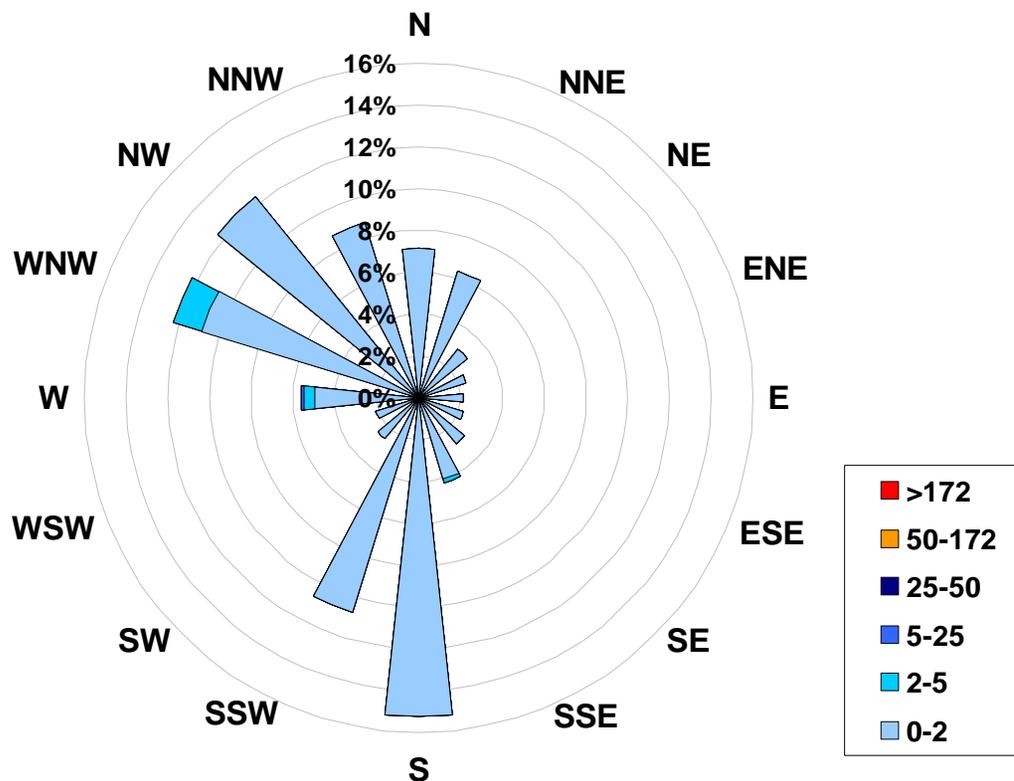


Figure 59. PASZA - Valleyview Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Valleyview Site for May 2007**



**Calms: 0%**

Frequency Distribution of SO <sub>2</sub> in ppb			Frequency (hrs)
Range			
0.0	<	2	693
2	to	5	15
5	to	25	1
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			709

## PASZA - Valleyview - Hydrogen Sulphide Monthly Summary

Station: Valleyview  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

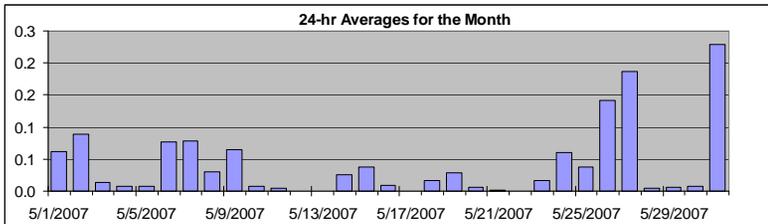
### Hydrogen Sulphide (H<sub>2</sub>S)

Monitoring Dates: May 1, 2007 to June 1, 2007

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

**Summary**

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	1.2 ppb 31-May 22:00 23:00
Maximum 24-hr Value:	0.2 ppb 31-May



AIC Time:	31 hrs	Operational Time:	709 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0 ppb	0.0 ppb

**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
1-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
2-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0.1	0.2
3-May-07	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
4-May-07	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
5-May-07	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
6-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
7-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
8-May-07	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
9-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
10-May-07	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
11-May-07	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
12-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
13-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
14-May-07	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	0.2
15-May-07	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
16-May-07	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
17-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
18-May-07	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
19-May-07	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
20-May-07	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
21-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
22-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
23-May-07	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
24-May-07	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
25-May-07	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	0.2
26-May-07	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	0.1	0.6
27-May-07	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
28-May-07	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
29-May-07	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
30-May-07	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
31-May-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.2	1.2
Hourly Avg	N	0.1	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Hourly Max	0.0	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.3	0.9	1.2	1.0		

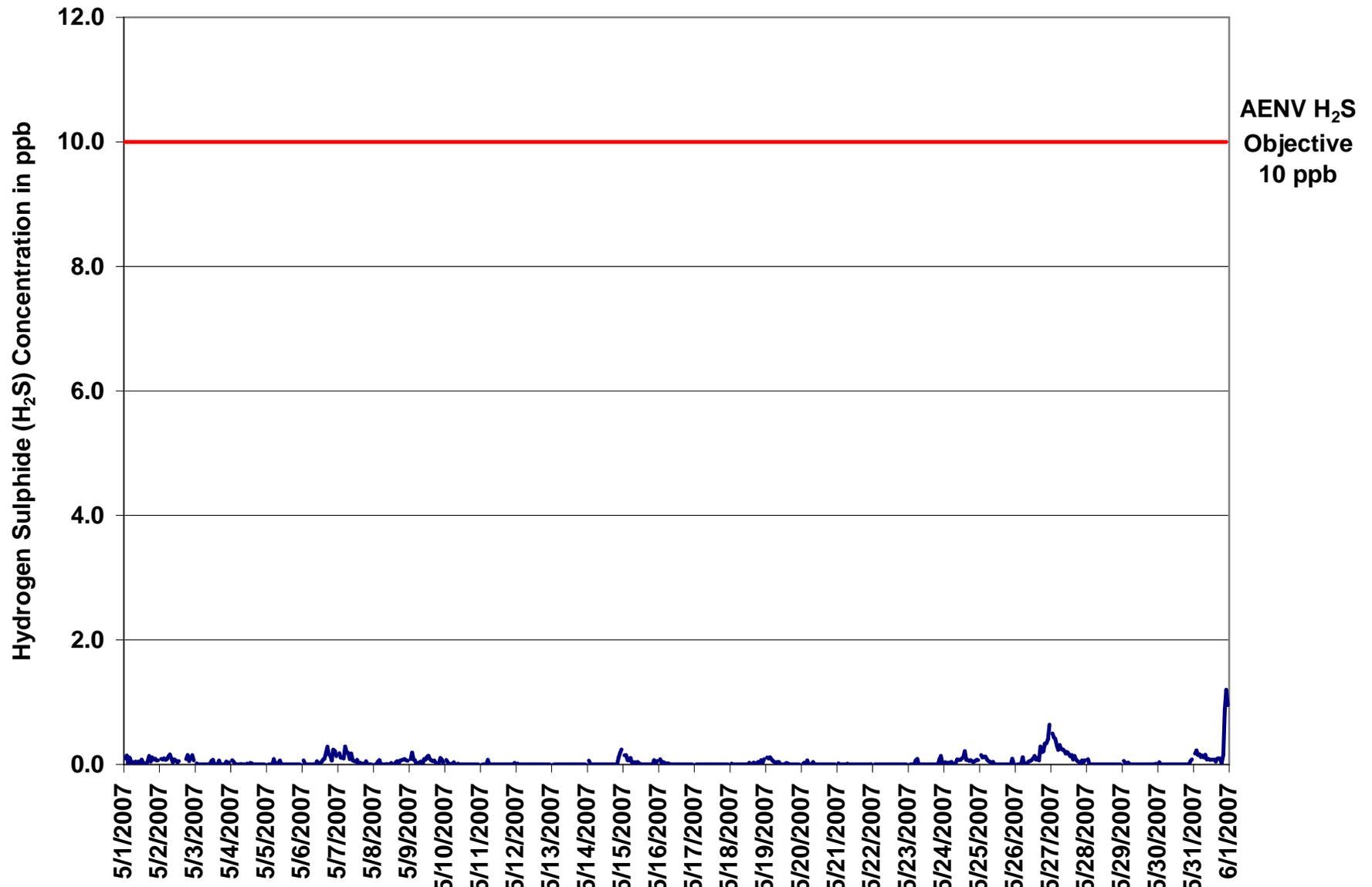


Figure 60. PASZA - Valleyview Hydrogen Sulphide 1-hr Average Monthly Trend

Station: Valleyview  
 Station Owner: PASZA

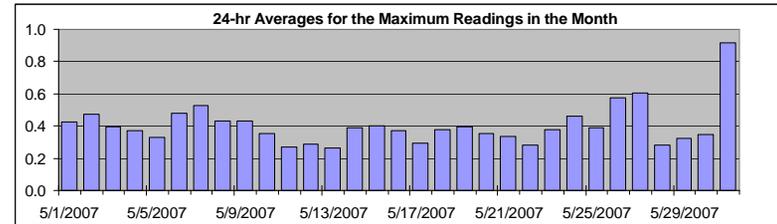
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Hydrogen Sulphide (H<sub>2</sub>S)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Maximum 1-hr Value:	5.8	ppb	31-May	21:00 22:00
Maximum 24-hr Value:	0.9	ppb	31-May	



AIC Time:	31 hrs	Operational Time:	709 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.9	0.6	0.5	0.4	0.3	0.2	0.1	0.4 ppb	0.4 ppb

**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum
1-May-07	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.4	0.6
2-May-07	A	0	1	0	0	0	0	1	1	0	0	0	0	0	C	C	C	C	1	1	0	0	1	0	0.5	0.8
3-May-07	A	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.4	0.7
4-May-07	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
5-May-07	A	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
6-May-07	A	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1	1	0	0.5	0.8
7-May-07	A	1	1	0	1	1	0	1	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.5	1.9
8-May-07	A	0	0	1	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0.4	0.8
9-May-07	A	0	1	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0.4	0.7
10-May-07	A	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
11-May-07	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	0.6
12-May-07	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
13-May-07	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
14-May-07	A	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0.4	0.7
15-May-07	A	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0.4	0.6
16-May-07	A	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
17-May-07	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
18-May-07	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
19-May-07	A	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
20-May-07	A	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
21-May-07	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
22-May-07	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
23-May-07	A	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.4	0.9
24-May-07	A	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0.5	1.2
25-May-07	A	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
26-May-07	A	0	1	0	0	1	0	0	0	0	1	0	0	1	1	0	0	1	1	1	1	1	1	2	0.6	1.8
27-May-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	0.6	0.8
28-May-07	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
29-May-07	A	1	1	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
30-May-07	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.3	0.5
31-May-07	A	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	1	6	3	2	0.9	5.8
Hourly Avg	N	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.4	0.5	0.5	0.5			
Hourly Max	0.0	0.8	0.8	0.8	0.8	0.9	0.8	0.7	0.7	1.9	0.5	0.6	0.7	0.8	1.2	0.6	0.6	0.7	0.7	0.7	0.9	5.8	3.5	1.8		

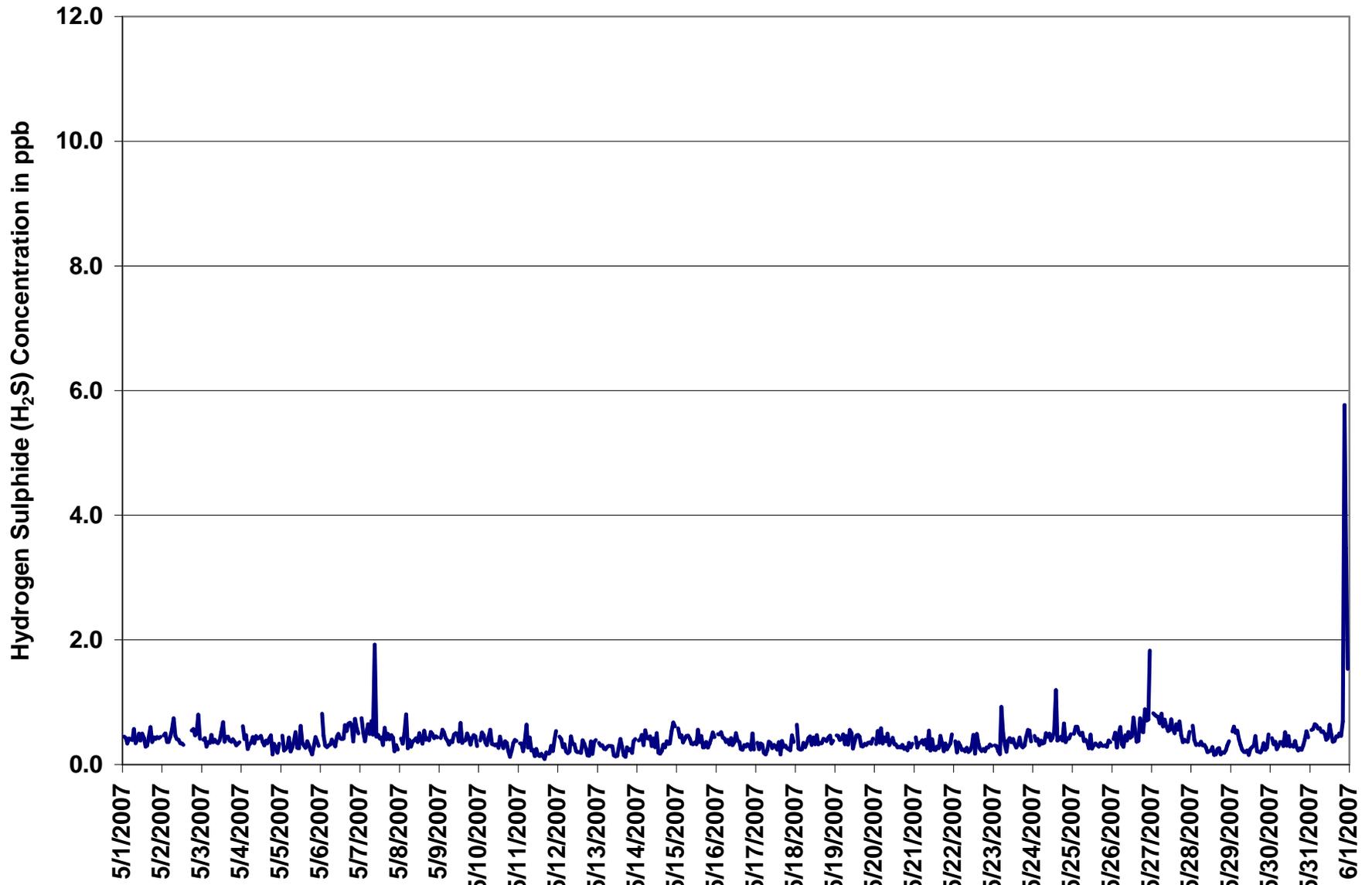
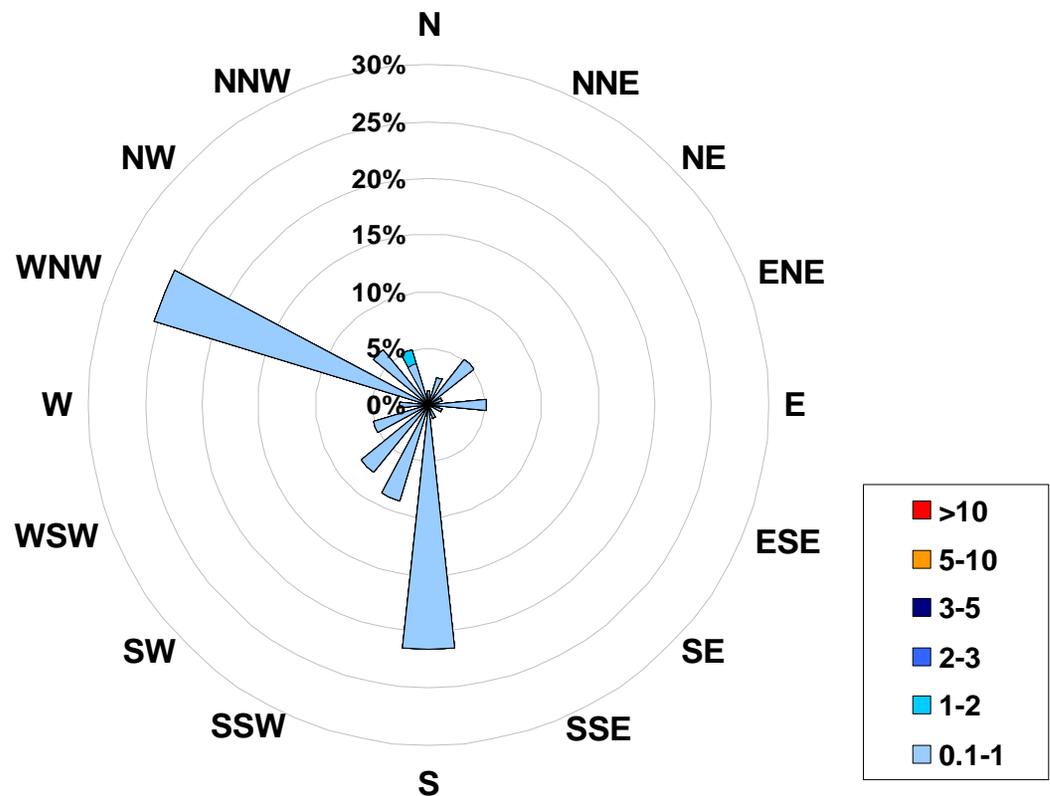


Figure 61. PASZA - Valleyview Hydrogen Sulphide Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Hydrogen Sulphide (in ppb) Located at the Valleyview Site for May 2007**



**Calms: 0%**

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

# PASZA - Valleyview - Relative Humidity Monthly Summary

Station: Valleyview  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

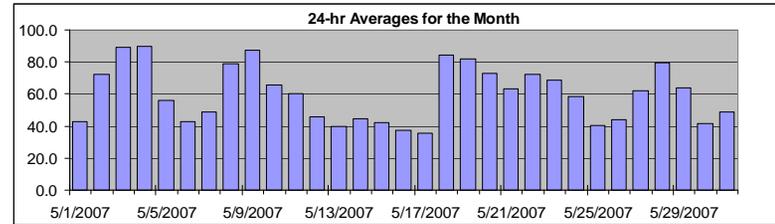
## Relative Humidity (RH)

Monitoring Dates: May 1, 2007 to June 1, 2007

### Summary

Maximum 1-hr Average:	99.4 %	29-May	7:00 8:00
Maximum 24-hr Value:	90.0 %	4-May	

AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	98.8	95.9	83.3	61.5	37.2	22.7	16.4	60.1 %	61.5 %



### 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																								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-May-07	51	47	59	55	68	67	72	51	39	35	33	31	27	23	24	27	26	26	27	29	43	54	58	61	43.0	72.1
2-May-07	63	65	67	70	72	76	75	69	61	52	48	49	52	67	65	69	70	78	87	95	96	94	95	98	72.2	97.8
3-May-07	99	99	99	98	97	96	96	93	87	86	88	84	80	78	75	72	76	82	90	94	96	97	93	92	89.5	98.9
4-May-07	93	93	93	93	92	92	91	92	88	87	88	90	86	85	88	89	89	89	90	90	90	92	90	90	90.0	93.5
5-May-07	90	91	90	91	91	91	92	90	78	57	48	36	30	29	26	24	23	23	24	32	39	47	54	50	56.1	92.0
6-May-07	52	56	66	62	62	59	55	49	42	38	35	33	32	32	29	29	29	30	37	37	40	43	39	31	42.5	66.4
7-May-07	31	33	41	37	36	40	44	46	42	42	45	43	44	43	43	47	47	47	48	59	68	82	83	83	49.0	83.4
8-May-07	82	83	78	85	84	81	78	79	71	65	68	66	61	63	64	66	73	89	94	95	96	95	92	92	79.2	96.0
9-May-07	93	95	94	92	92	91	93	92	91	91	89	86	85	85	81	80	74	76	81	76	81	92	92	96	87.5	96.1
10-May-07	97	98	97	98	98	98	96	88	81	74	58	53	46	42	45	42	39	37	36	37	39	51	61	68	65.8	97.9
11-May-07	79	84	93	96	97	97	93	85	74	64	57	46	39	34	36	31	38	37	41	45	48	42	41	50	60.3	96.9
12-May-07	63	65	66	57	67	73	75	76	74	61	47	37	30	22	20	20	22	24	24	26	29	30	35	49	45.5	76.2
13-May-07	53	61	65	68	62	59	53	46	42	28	25	24	24	24	23	23	23	23	23	26	30	37	47	56	39.5	68.2
14-May-07	72	78	74	76	75	74	72	58	46	37	26	24	23	22	23	23	22	23	22	25	28	36	50	64	44.7	78.5
15-May-07	64	58	65	73	80	78	73	63	53	40	32	26	25	23	23	22	22	21	22	23	27	29	36	39	42.3	79.6
16-May-07	43	48	52	55	58	59	56	52	44	34	25	22	21	19	21	25	24	23	27	27	33	39	45	44	37.3	58.6
17-May-07	46	48	49	48	44	43	41	33	30	28	26	24	23	23	22	21	22	28	28	29	36	48	52	59	35.4	58.5
18-May-07	68	80	80	85	89	88	90	86	85	86	87	89	89	89	88	89	88	82	79	82	80	83	83	83	84.5	89.9
19-May-07	83	83	84	86	93	93	92	90	86	81	77	70	67	61	56	62	89	86	83	84	87	91	93	92	82.0	93.0
20-May-07	93	89	89	88	87	88	85	81	81	76	70	64	65	65	63	62	59	56	56	59	61	63	70	79	72.9	92.6
21-May-07	86	91	92	94	92	87	83	77	70	62	56	54	45	37	38	35	37	31	34	49	56	65	70	83	63.5	93.7
22-May-07	89	93	96	96	97	95	85	72	60	51	43	35	42	64	73	69	74	72	68	65	66	70	77	82	72.2	96.5
23-May-07	81	86	92	88	77	75	75	70	62	60	58	49	65	74	76	73	49	43	49	52	56	68	78	87	68.5	91.7
24-May-07	95	96	97	97	97	94	88	79	67	54	45	42	39	37	34	32	30	31	31	31	37	44	50	54	58.5	97.4
25-May-07	60	67	71	73	77	75	68	61	51	41	34	27	20	16	16	15	14	15	14	16	21	36	44	39	40.4	76.9
26-May-07	40	46	52	58	66	67	62	50	41	36	32	27	22	22	21	25	28	30	34	39	44	59	72	78	43.8	78.4
27-May-07	89	92	94	96	92	82	69	73	78	86	79	63	51	33	32	32	31	33	34	37	38	53	61	57	62.0	95.9
28-May-07	52	64	69	71	74	74	73	68	68	69	77	77	75	84	83	84	86	90	93	94	93	96	98	99	79.6	98.6
29-May-07	99	99	99	99	99	99	99	99	96	73	59	50	44	40	39	34	32	30	29	30	36	50	51	55	64.1	99.4
30-May-07	59	64	67	71	71	71	67	61	55	46	38	28	25	22	18	17	16	16	17	22	29	34	39	45	41.6	71.5
31-May-07	57	66	73	85	92	86	69	53	42	37	35	32	29	28	28	27	27	27	28	30	36	49	58	73	48.7	91.6
Hourly Avg	71.7	74.8	77.5	78.7	79.9	78.9	76.1	70.5	64.1	57.4	52.5	47.8	45.3	44.8	44.3	44.1	44.6	45.1	46.8	49.6	53.5	60.3	64.8	68.6		
Hourly Max	98.9	98.9	99.0	99.1	99.1	99.2	99.3	99.4	96.4	90.8	88.9	89.5	89.4	89.2	87.8	89.1	89.4	89.5	94.2	94.8	96.0	96.5	98.0	98.6		

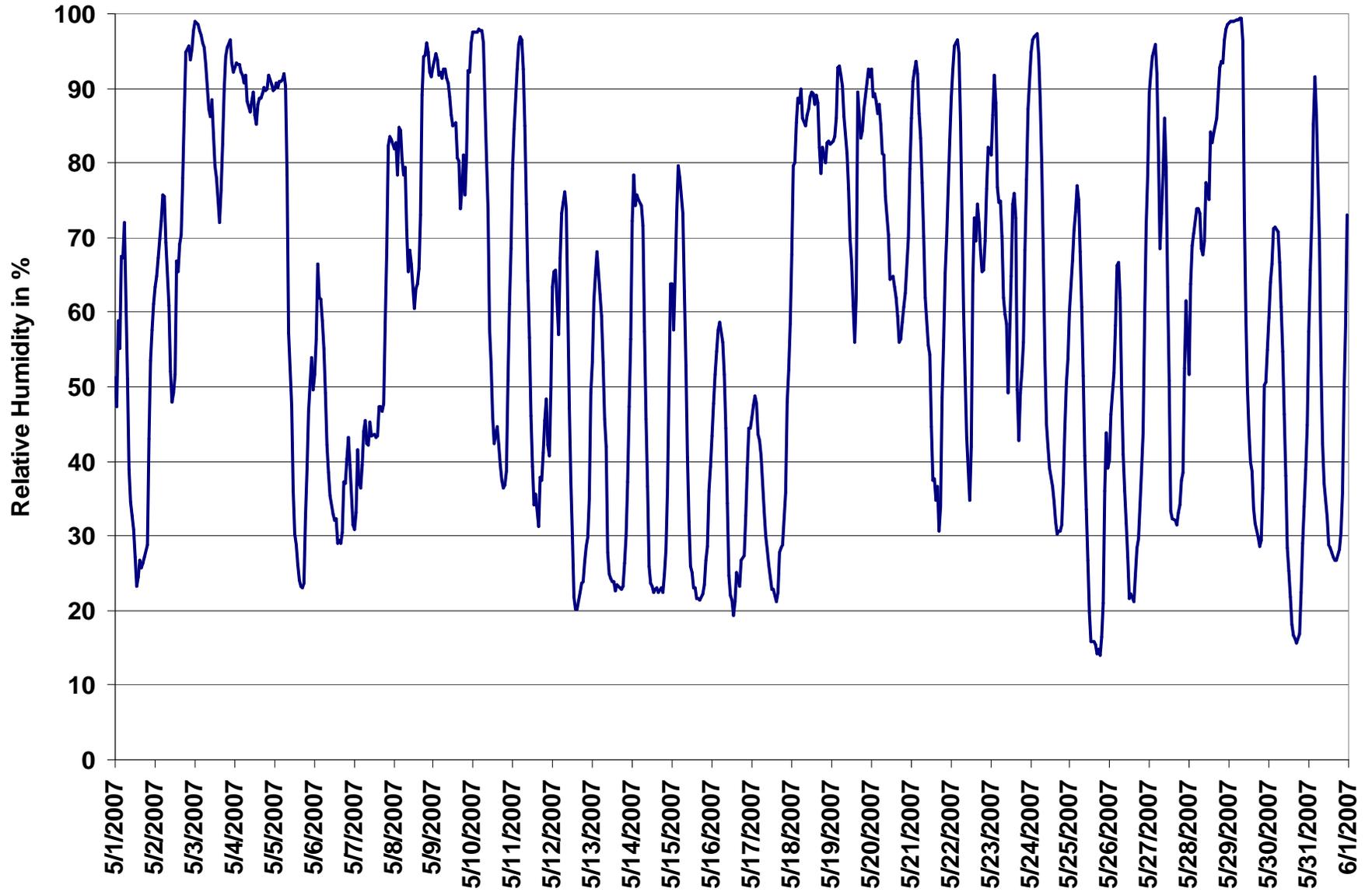


Figure 62. PASZA - Valleyview Relative Humidity 1-hr Average Monthly Trend

# PASZA - Valleyview - Temperature Monthly Summary

Station: Valleyview  
 Station Owner: PASZA

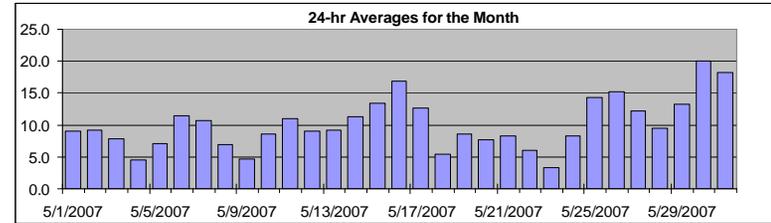
## HOURLY AVERAGE TABLE

## Ambient Temperature (T)

Monitoring Dates: May 1, 2007 to June 1, 2007

### Summary

Maximum 1-hr Average:	28.2	°C	30-May	17:00 18:00
Maximum 24-hr Value:	20.0	°C	30-May	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	24.7	21.1	13.6	9.4	5.6	2.4	-0.2	10.1 °C	9.4 °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			0:00
1-May-07	4	5	4	3	2	2	2	4	7	9	10	12	13	14	14	14	14	14	14	14	13	12	11	9	8	9.1	14.4
2-May-07	8	8	7	7	6	6	6	7	10	12	13	12	12	11	12	11	11	10	10	9	9	8	8	8	8	9.1	12.6
3-May-07	7	7	7	7	7	7	7	7	8	8	8	8	9	9	10	10	9	8	8	7	7	7	6	6	6	7.8	9.7
4-May-07	5	4	4	4	4	4	4	4	5	5	5	6	6	6	5	5	4	4	4	4	4	4	4	4	4	4.5	6.0
5-May-07	4	3	3	3	3	3	2	3	4	6	8	9	10	11	12	12	12	13	12	11	9	7	5	6	6	7.1	12.5
6-May-07	6	5	4	4	3	4	5	8	11	13	15	16	16	16	17	17	17	16	15	15	14	13	13	12	11.4	16.9	
7-May-07	12	11	9	9	8	8	8	9	9	10	11	12	13	13	14	13	14	13	13	12	10	9	9	9	10.7	13.9	
8-May-07	9	9	8	8	8	8	8	8	8	9	8	8	8	8	7	6	5	5	5	5	4	4	3	3	6.9	8.9	
9-May-07	3	3	4	4	4	4	3	3	3	4	4	4	4	5	5	6	6	8	7	6	7	6	5	4	3	4.7	7.6
10-May-07	2	2	2	2	2	2	2	4	6	8	10	12	12	13	13	13	14	14	14	14	13	11	10	8	8.6	14.4	
11-May-07	6	5	4	3	2	2	4	6	8	11	13	15	17	17	17	18	17	17	17	16	14	12	11	10	10.9	18.1	
12-May-07	7	7	6	7	6	6	6	6	6	8	9	11	11	11	12	12	13	13	12	12	11	9	8	6	9.0	12.8	
13-May-07	4	3	2	1	1	1	3	6	9	11	12	13	13	14	14	14	15	15	15	14	13	11	9	7	9.2	14.9	
14-May-07	5	5	5	5	5	5	5	8	10	13	15	15	16	16	16	16	17	17	17	16	15	12	10	8	11.3	17.0	
15-May-07	7	8	7	5	4	4	5	7	9	13	15	16	18	19	19	20	20	20	20	20	18	17	15	15	13.4	20.4	
16-May-07	14	13	12	12	11	11	12	13	15	18	21	22	22	22	22	22	20	21	22	21	20	18	16	14	14	16.9	22.6
17-May-07	14	13	13	12	11	11	11	11	12	12	13	13	14	15	15	15	15	14	13	13	12	11	10	9	12.6	15.1	
18-May-07	8	6	6	5	5	4	3	4	4	4	5	5	5	5	6	6	6	7	7	6	6	6	5	6	5.4	7.7	
19-May-07	6	6	6	6	6	6	7	7	8	9	10	11	12	12	13	12	9	9	9	9	8	8	8	7	8.5	13.1	
20-May-07	7	6	6	5	5	5	5	6	6	7	8	9	9	9	10	10	10	10	11	11	10	8	7	5	7.7	10.6	
21-May-07	4	3	3	3	3	5	5	7	8	9	9	9	11	12	12	13	13	14	13	11	10	8	7	5	8.3	13.8	
22-May-07	4	3	2	2	1	2	4	7	10	12	14	15	14	10	7	5	4	4	5	5	5	4	2	2	6.0	15.2	
23-May-07	2	0	-1	-2	0	1	1	2	3	3	4	6	4	4	4	5	7	8	7	7	6	4	3	1	3.3	8.1	
24-May-07	0	-1	-1	-2	-2	-1	0	3	6	8	9	11	12	13	14	15	16	16	16	16	14	12	11	10	8.2	16.3	
25-May-07	8	7	6	6	5	5	7	9	11	14	16	18	20	21	21	21	21	22	22	22	22	20	15	13	13	14.2	22.3
26-May-07	14	12	11	9	8	8	10	12	15	17	19	21	21	21	21	21	20	19	18	17	17	14	11	9	15.3	21.5	
27-May-07	8	7	6	5	5	8	11	10	10	10	11	14	16	17	17	17	18	17	17	17	15	13	12	12	12.1	17.5	
28-May-07	11	10	10	10	9	8	8	9	10	10	9	10	10	10	10	10	10	10	10	9	9	10	9	8	7	9.5	11.4
29-May-07	6	4	4	3	3	3	4	6	9	13	15	16	17	19	20	21	22	22	22	22	20	17	16	15	13.3	22.4	
30-May-07	15	13	13	12	11	11	12	14	16	19	21	23	25	26	27	27	28	28	28	26	24	22	21	19	20.0	28.2	
31-May-07	15	14	12	10	9	9	13	17	18	19	20	21	22	23	23	24	24	25	25	24	22	19	16	15	18.2	24.7	
Hourly Avg	7.2	6.6	5.9	5.4	5.1	5.2	5.9	7.3	8.9	10.4	11.7	12.7	13.3	13.8	13.9	14.0	14.1	14.0	13.7	13.1	12.2	10.6	9.3	8.4			
Hourly Max	15.1	13.5	12.7	12.0	11.4	11.5	12.6	16.5	18.1	18.8	21.2	23.4	24.8	25.9	26.6	27.1	27.8	28.2	27.6	25.8	23.7	22.2	20.5	18.7			

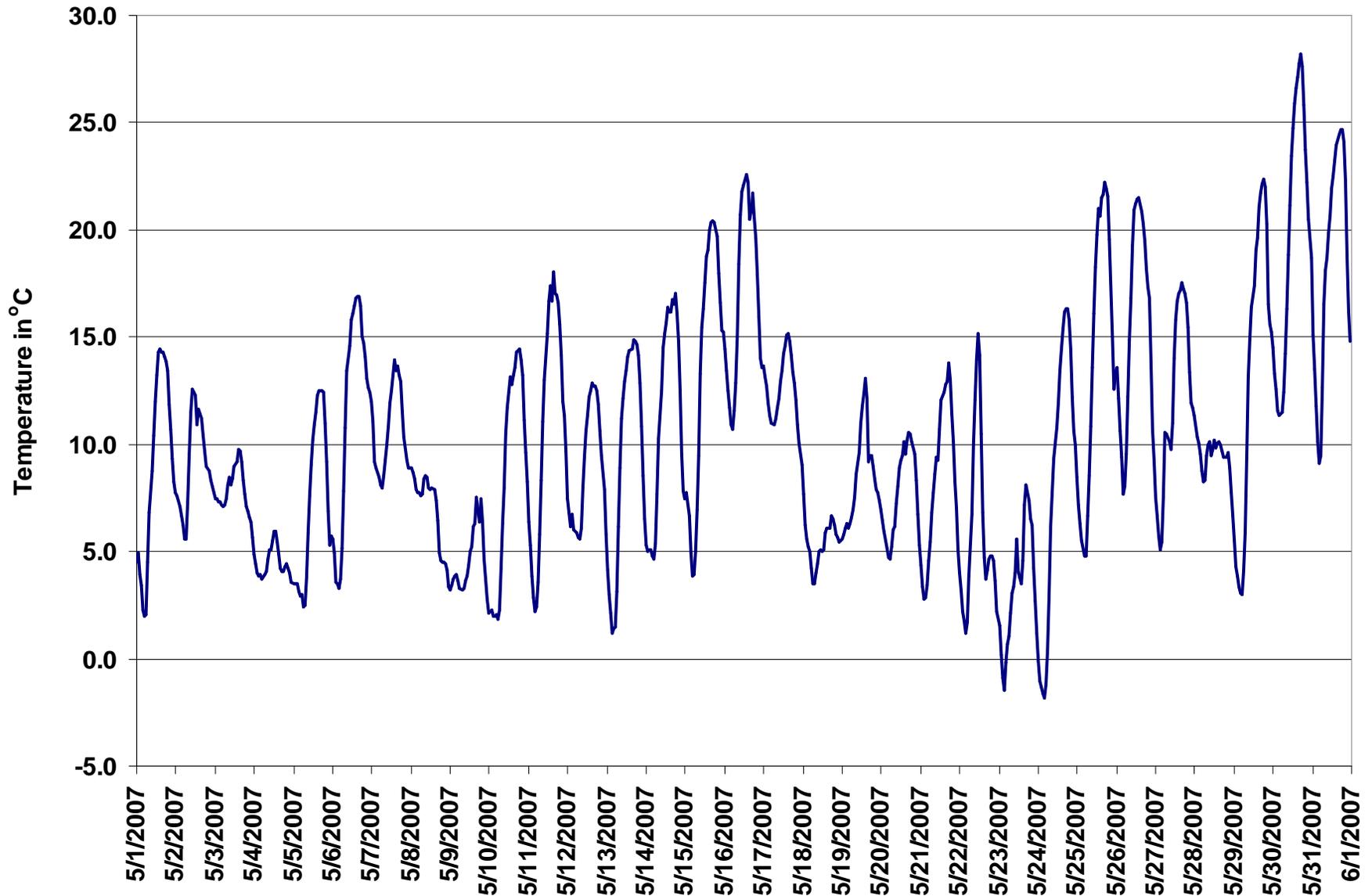


Figure 63. PASZA - Valleyview Temperature 1-hr Average Monthly Trend

# PASZA - Valleyview - Scalar Wind Speed Monthly Summary

Station: Valleyview  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

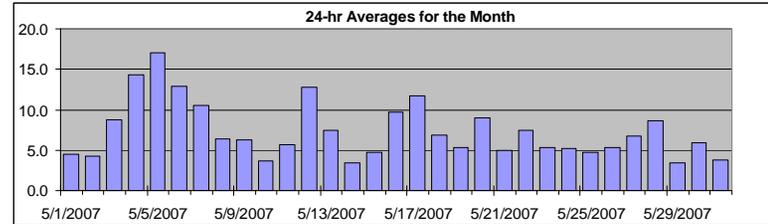
## Wind Speed (WSs)

Monitoring Dates: May 1, 2007 to June 1, 2007

### Summary

Maximum 1-hr Average:	26.2	km/hr	5-May	12:00 13:00
Maximum 24-hr Value:	17.0	km/hr	5-May	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	23.6	18.2	9.4	6.0	3.7	1.8	1.2	7.3 km/hr



### Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-May-07	4	3	2	2	3	1	1	1	2	2	3	4	4	5	8	5	4	5	4	2	9	11	10	10	4.5	10.7	
2-May-07	8	5	4	4	3	3	3	3	4	3	4	8	10	5	4	6	5	5	3	2	2	2	2	3	4.2	9.6	
3-May-07	7	5	6	5	6	3	4	4	3	5	8	8	10	8	11	16	13	13	15	16	9	9	11	15	8.7	16.4	
4-May-07	9	8	12	12	11	9	10	10	11	13	11	11	14	16	17	18	17	18	17	20	18	18	19	22	14.3	22.1	
5-May-07	21	19	20	19	20	19	18	22	24	22	19	24	26	24	22	19	16	16	12	11	4	4	2	4	17.0	26.2	
6-May-07	4	4	4	5	5	7	6	7	7	10	11	17	21	19	23	22	22	17	13	18	15	13	18	23	12.9	23.4	
7-May-07	26	17	10	9	10	8	5	9	8	11	13	8	13	12	11	14	14	14	9	10	6	5	6	5	10.5	26.0	
8-May-07	4	4	7	2	4	6	5	4	5	8	7	8	5	5	5	8	9	7	6	7	5	9	12	10	6.4	11.7	
9-May-07	7	3	8	11	12	12	9	8	8	8	9	8	8	6	3	6	3	5	3	3	3	2	3	2	6.2	12.5	
10-May-07	2	2	1	1	1	2	3	4	4	4	4	4	6	6	9	8	6	3	4	4	2	3	2	2	3.6	8.9	
11-May-07	2	2	1	1	1	1	1	2	5	8	6	7	5	6	9	6	13	18	13	8	7	8	3	3	5.7	17.8	
12-May-07	3	9	7	10	17	14	13	9	5	10	13	19	24	24	24	21	21	16	15	10	6	7	7	3	12.8	24.0	
13-May-07	4	4	4	4	6	6	7	4	5	8	7	8	6	10	10	11	17	17	19	11	5	3	2	3	7.5	18.6	
14-May-07	2	3	2	2	2	3	3	3	2	2	4	4	5	6	6	8	5	6	4	3	2	2	1	2	3.4	7.7	
15-May-07	2	4	3	2	3	3	3	5	3	3	3	5	5	5	7	5	6	7	6	5	4	7	8	9	4.7	8.6	
16-May-07	7	9	6	7	8	8	10	6	6	9	13	12	12	14	13	18	15	12	10	11	9	4	5	10	9.7	17.6	
17-May-07	12	7	10	11	7	7	11	13	14	15	14	13	12	12	13	14	13	13	13	9	11	12	12	9	11.7	14.9	
18-May-07	8	8	7	6	7	8	7	8	6	5	5	7	8	8	6	7	9	9	8	6	7	4	5	6	6.9	8.6	
19-May-07	4	4	4	3	3	4	4	6	7	8	7	5	5	5	6	5	5	8	11	7	6	6	2	3	5.4	10.7	
20-May-07	3	7	8	8	10	8	6	9	9	10	12	11	12	14	16	16	13	11	10	7	4	4	4	2	9.0	16.4	
21-May-07	2	2	2	2	2	2	3	4	7	8	10	8	7	9	8	9	8	7	4	4	2	3	2	2	4.9	9.7	
22-May-07	3	2	2	3	3	4	4	4	3	5	6	8	18	23	25	21	14	10	7	4	3	2	4	4	7.5	24.6	
23-May-07	2	2	2	3	5	7	8	8	8	9	5	4	11	7	8	5	4	4	8	6	3	3	2	2	5.3	10.9	
24-May-07	2	3	1	2	3	3	3	3	2	4	4	6	5	5	6	8	8	8	9	10	7	7	9	9	5.3	10.5	
25-May-07	8	7	6	6	4	5	6	8	7	5	5	4	5	4	5	4	4	3	3	2	2	2	2	7	4.8	8.3	
26-May-07	7	6	5	4	2	3	2	5	4	4	3	4	10	7	9	8	12	11	11	3	2	2	2	2	5.3	12.2	
27-May-07	2	2	3	3	4	4	11	6	5	5	6	5	5	9	11	11	11	10	12	9	7	7	4	7	6.7	11.8	
28-May-07	7	7	8	6	6	7	7	14	12	16	13	12	15	12	13	11	11	10	9	5	2	2	2	2	8.6	16.0	
29-May-07	2	1	1	1	1	1	1	3	3	6	5	6	6	5	4	4	4	5	4	3	2	4	4	5	3.4	5.9	
30-May-07	5	6	6	4	6	6	8	7	7	6	5	5	6	6	7	8	5	4	6	6	8	9	5	3	6.0	9.0	
31-May-07	5	2	2	2	2	2	2	3	4	6	7	6	5	5	5	5	6	6	5	4	2	2	2	1	3.8	7.5	
1-hr Average	6.0	5.4	5.3	5.3	5.7	5.7	6.0	6.5	6.5	7.6	7.8	8.3	9.8	9.7	10.4	10.6	10.1	9.6	8.8	7.3	5.6	5.7	5.6	6.1			
Hourly Max	26.0	19.4	19.5	18.7	19.7	19.2	18.3	22.1	23.6	22.4	19.4	24.2	26.2	24.4	24.6	22.2	22.2	18.0	18.6	19.6	18.2	18.4	18.9	22.6			

# PASZA - Valleyview - Vector Wind Speed Monthly Summary

Station: Valleyview  
 Station Owner: PASZA

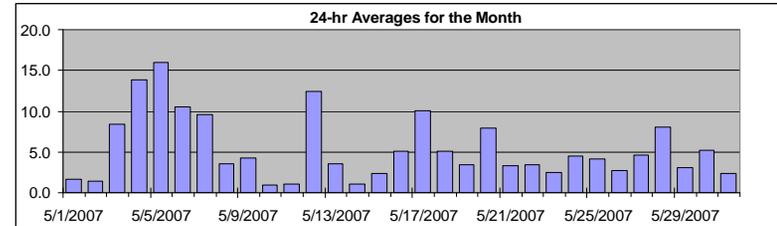
## HOURLY AVERAGE TABLE

## Wind Speed (WSv)

Monitoring Dates: May 1, 2007 to June 1, 2007

### Summary

Maximum 1-hr Average:	25.9	km/hr	5-May	12:00 13:00
Maximum 24-hr Value:	15.9	km/hr	5-May	



Calm Time:	21 hrs	3% calms	Operational Time:	723 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	23.0	18.2	9.3	5.7	3.1	1.4	1.0	9.1 km/hr

### Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max			
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-May-07	3	calm	1	2	1	1	1	calm	2	1	3	1	2	3	2	3	4	4	4	2	9	11	10	10		1.6	10.5	
2-May-07	7	5	4	3	3	3	3	3	3	4	2	7	9	2	3	5	5	4	3	1	1	2	1	3		1.4	9.3	
3-May-07	7	5	6	4	6	3	4	4	2	5	8	7	10	8	11	16	13	13	15	15	9	9	11	14		8.4	16.0	
4-May-07	8	8	12	12	11	9	10	10	11	13	11	11	13	15	16	18	17	18	17	20	18	18	19	22		13.8	22.0	
5-May-07	21	19	19	19	20	19	18	22	23	22	19	24	26	24	22	18	16	16	12	10	3	4	2	4		15.9	25.9	
6-May-07	4	3	4	5	5	7	6	7	7	9	11	16	21	19	23	22	22	16	13	18	15	13	18	22		10.5	23.1	
7-May-07	26	16	9	9	10	7	5	8	8	10	13	7	13	12	11	14	13	14	9	9	6	5	6	5		9.5	25.8	
8-May-07	4	4	7	calm	2	5	4	4	5	7	7	7	4	3	4	8	9	7	5	6	5	9	11	10		3.6	11.5	
9-May-07	6	3	7	11	12	12	9	8	7	8	8	7	7	5	2	6	2	3	3	2	2	2	3	1		4.2	12.4	
10-May-07	2	2	calm	1	1	1	calm	calm	4	4	3	1	1	4	3	8	8	3	3	3	3	2	2	2		0.9	8.3	
11-May-07	calm	2	calm	1	1	calm	calm	calm	5	6	5	5	3	5	8	4	13	18	12	7	7	8	3	2		1.1	17.6	
12-May-07	1	9	7	10	17	14	12	9	5	10	12	18	23	23	22	21	21	16	14	10	6	7	6	2		12.4	23.5	
13-May-07	4	4	3	4	6	6	7	4	3	7	6	7	3	9	9	11	16	17	18	10	5	3	calm	2		3.5	18.4	
14-May-07	2	2	2	2	2	3	3	3	2	1	2	3	3	4	6	7	3	6	3	3	1	1	1	2		1.0	7.1	
15-May-07	2	2	2	2	3	3	3	5	2	2	2	4	3	1	3	3	5	6	5	5	4	7	8	8		2.3	8.5	
16-May-07	7	9	6	7	7	8	10	6	5	8	12	11	11	14	12	17	15	12	9	10	9	3	5	9		5.1	17.4	
17-May-07	12	6	10	11	7	7	11	12	14	14	14	13	11	11	12	14	13	13	13	9	11	12	12	9		10.1	14.3	
18-May-07	8	8	7	6	7	8	7	8	6	5	5	6	8	8	6	7	8	8	8	6	7	4	5	6		5.1	8.5	
19-May-07	4	4	3	3	3	4	4	6	7	8	7	4	4	4	5	2	5	8	11	7	6	6	2	2		3.4	10.6	
20-May-07	3	7	8	8	10	8	6	9	8	10	11	11	11	13	16	15	12	11	9	7	4	4	4	2		7.9	15.6	
21-May-07	calm	1	2	1	1	2	3	4	6	8	9	7	6	7	6	8	7	5	4	4	1	2	calm	2		3.3	9.2	
22-May-07	3	2	2	2	3	4	4	4	3	5	5	6	16	23	24	20	14	9	6	4	3	1	3	4		3.5	23.9	
23-May-07	2	2	2	3	5	6	8	7	8	8	4	3	10	4	7	4	2	3	8	6	3	3	2	1		2.5	10.1	
24-May-07	calm	3	1	2	2	2	3	3	1	2	2	4	4	3	5	6	6	8	8	10	7	7	9	9		4.5	10.4	
25-May-07	8	7	5	6	4	5	6	8	6	4	5	3	2	3	2	3	2	2	2	2	1	2	2	7		4.1	8.2	
26-May-07	7	6	5	4	2	3	2	5	4	3	2	3	9	7	8	6	12	11	11	1	1	calm	calm	calm		2.7	11.5	
27-May-07	2	2	3	3	4	3	11	6	5	4	6	4	4	8	10	10	11	10	11	9	7	7	3	7		4.6	11.5	
28-May-07	7	7	8	6	5	7	7	13	12	16	13	12	15	12	13	11	10	10	9	5	1	1	1	2		8.1	15.7	
29-May-07	2	1	calm	1	1	1	calm	3	2	5	5	5	5	5	3	2	1	2	4	4	3	2	4	5		3.0	5.3	
30-May-07	5	6	5	4	6	6	8	7	6	5	5	5	5	4	7	7	4	3	5	6	8	9	2	2		5.2	8.7	
31-May-07	4	calm	2	2	2	2	2	3	2	5	7	5	3	4	2	4	5	5	5	4	2	1	1	calm		2.4	6.5	
1-hr Vector	1.8	2.0	2.1	2.1	2.8	2.9	3.0	2.8	3.0	4.2	4.4	4.5	6.3	6.3	6.5	6.8	6.0	5.3	4.7	3.7	1.4	1.0	1.5	1.5				
Hourly Max	25.8	19.3	19.4	18.6	19.5	19.0	18.2	22.0	23.5	22.2	19.2	24.0	25.9	24.0	23.9	21.8	21.8	17.8	18.4	19.5	18.1	18.2	18.7	22.4				

## PASZA - Valleyview - Wind Direction Monthly Summary

Station: Valleyview  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	354.2	344.0	303.1	204.7	163.4	18.0	3.5	304 deg

**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	WD Sector
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-May-07	174	3	74	142	300	198	165	157	175	118	44	353	349	189	280	15	54	80	67	83	154	156	164	172	139	SE
2-May-07	172	159	127	102	81	37	50	24	29	77	196	186	143	83	306	277	217	220	230	254	213	165	50	36	148	SSE
3-May-07	29	27	24	10	15	32	20	31	345	4	46	32	26	9	7	2	26	8	354	345	9	342	346	1	9	N
4-May-07	346	309	300	296	294	297	304	304	310	303	305	308	318	325	330	338	336	334	330	329	331	331	329	323	321	NW
5-May-07	319	312	308	302	296	285	273	277	286	283	274	276	288	295	300	299	306	309	306	337	344	182	210	214	294	WNW
6-May-07	200	182	172	189	196	191	190	182	204	243	245	260	272	290	286	293	287	290	300	296	298	279	290	302	274	W
7-May-07	299	299	326	308	301	285	291	306	325	295	279	270	300	291	275	288	281	295	305	280	221	213	206	213	289	WNW
8-May-07	205	215	269	13	211	262	266	248	251	257	254	291	290	284	346	27	23	18	19	14	19	354	352	340	318	NW
9-May-07	329	273	284	296	298	315	326	321	305	310	305	320	21	39	43	358	1	278	146	172	155	195	202	157	315	NW
10-May-07	151	201	349	74	190	177	193	131	77	30	274	95	302	307	321	0	339	165	10	12	51	119	177	268	354	N
11-May-07	317	175	4	199	196	230	339	340	154	164	100	141	192	222	164	213	345	350	4	20	5	2	67	74	20	NNE
12-May-07	270	305	315	310	317	325	328	326	283	296	294	291	300	297	297	295	301	313	309	311	303	303	308	198	304	NW
13-May-07	195	181	174	171	187	188	184	191	342	299	270	309	319	343	8	356	351	354	350	3	42	355	265	196	334	NNW
14-May-07	179	186	182	190	198	194	172	171	184	26	282	206	288	260	306	350	333	358	17	5	44	190	182	207	278	W
15-May-07	201	220	192	211	204	196	205	206	188	162	145	10	352	269	61	169	106	83	92	108	109	137	160	175	150	SSE
16-May-07	184	181	187	185	187	191	187	189	202	277	290	304	306	283	310	350	350	343	338	294	299	268	286	307	285	WNW
17-May-07	312	306	306	315	306	297	311	307	312	323	324	321	309	325	326	344	342	17	23	25	19	18	25	28	335	NNW
18-May-07	36	46	68	26	40	27	34	50	68	96	85	62	71	57	81	107	134	140	139	152	145	142	133	123	83	E
19-May-07	113	95	67	101	111	175	178	180	179	184	185	163	116	39	37	342	126	172	189	184	182	190	194	234	160	SSE
20-May-07	228	262	261	283	278	273	275	287	279	295	294	292	324	345	347	339	339	326	311	331	314	304	313	312	307	NW
21-May-07	130	209	221	192	347	290	314	345	349	350	358	23	332	333	341	343	336	328	347	278	210	201	154	172	336	NNW
22-May-07	174	194	199	192	189	186	182	181	192	200	216	244	334	332	350	9	26	16	22	15	8	254	29	45	347	NNW
23-May-07	22	335	251	335	300	291	290	288	306	305	326	256	339	72	177	100	69	99	37	13	9	268	295	211	325	NW
24-May-07	209	192	198	182	168	212	195	165	118	352	356	182	181	217	183	192	198	188	196	191	188	187	185	192	190	S
25-May-07	180	179	182	188	170	188	189	182	185	193	196	190	255	205	157	102	141	172	127	60	118	159	197	181	178	S
26-May-07	181	177	182	195	197	191	199	189	186	277	225	268	320	333	301	337	327	296	302	335	116	242	245	228	275	W
27-May-07	187	193	188	172	172	196	289	286	281	188	191	211	224	306	303	314	293	304	315	325	314	335	278	286	285	WNW
28-May-07	300	295	304	315	291	298	276	306	304	308	299	309	311	306	320	322	337	336	325	310	266	179	198	176	308	NW
29-May-07	206	203	215	188	199	231	222	199	196	196	185	191	195	206	201	173	173	159	130	120	105	159	159	175	180	S
30-May-07	180	166	176	189	196	196	190	186	185	180	192	196	185	154	165	171	188	158	134	144	155	170	299	52	176	S
31-May-07	335	293	238	172	184	190	223	179	319	327	309	332	333	26	340	8	358	10	18	17	45	1	338	235	341	NNW
Hourly Avg	274	258	274	278	276	265	266	269	281	288	282	285	307	312	318	333	333	333	340	334	336	281	296	284		

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

Station: Valleyview  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: May 1, 2007 to June 1, 2007

**Summary**

--

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	64.4	54.8	27.1	15.8	10.2	6.8	5.6

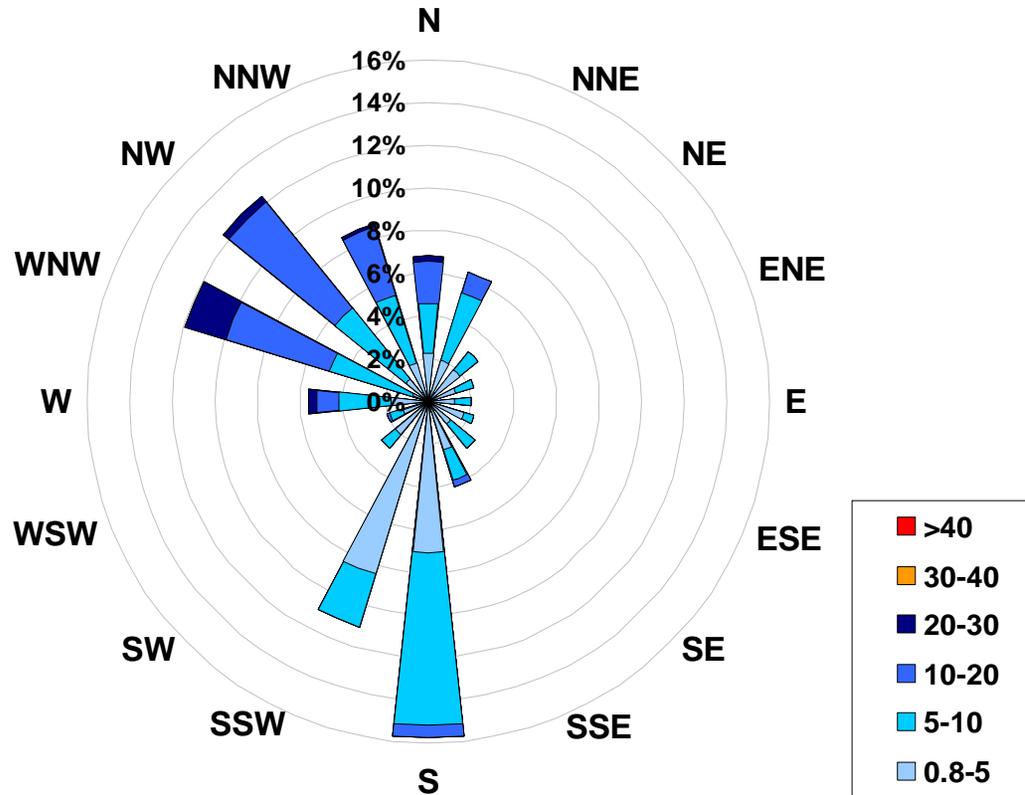
**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-May-07	41	37	42	17	27	37	26	65	30	68	43	66	54	52	43	41	22	24	17	23	14	9	8	9	67.8
2-May-07	10	20	28	13	31	11	13	24	26	58	52	41	37	30	29	20	48	28	31	26	66	44	12	9	66.4
3-May-07	10	8	9	11	7	15	11	13	22	19	12	18	14	17	10	10	9	7	6	7	7	7	10	6	22.0
4-May-07	7	11	16	15	8	9	11	20	17	13	12	13	12	12	9	7	8	8	6	10	9	6	12	12	19.9
5-May-07	8	7	11	11	14	19	18	6	11	17	13	25	19	9	25	28	18	12	10	11	34	6	33	18	33.5
6-May-07	16	31	7	6	9	9	8	9	13	15	17	16	12	12	11	10	9	7	9	8	7	7	6	8	31.4
7-May-07	7	10	7	8	8	14	18	10	27	15	10	23	13	16	18	12	11	11	10	10	11	6	5	9	27.4
8-May-07	6	11	16	56	33	18	13	13	18	17	18	23	48	42	32	23	9	10	11	13	13	6	8	8	55.5
9-May-07	7	15	10	9	7	6	6	9	12	13	13	14	16	19	48	35	65	42	30	20	11	11	12	28	65.1
10-May-07	15	15	33	28	14	48	51	7	17	16	59	68	46	62	16	23	31	41	26	10	12	38	20	22	67.7
11-May-07	39	12	34	31	22	42	49	55	23	21	40	36	48	35	20	33	12	7	10	11	13	9	16	29	54.8
12-May-07	58	14	24	18	6	10	10	12	26	22	22	18	11	18	20	15	12	14	16	14	16	12	17	30	58.3
13-May-07	19	22	8	6	5	5	7	11	26	21	44	50	61	27	25	23	12	9	8	14	8	11	19	10	60.7
14-May-07	19	23	35	33	29	22	39	21	27	56	47	52	51	52	31	21	56	25	56	11	28	24	17	11	56.2
15-May-07	7	25	27	15	9	8	8	6	19	21	34	29	61	61	50	55	39	33	24	14	15	6	9	9	60.7
16-May-07	9	7	8	7	6	6	7	10	9	21	14	16	19	17	15	6	8	15	17	16	8	13	9	7	21.3
17-May-07	7	15	9	7	10	10	10	10	12	13	14	17	21	20	25	16	14	12	8	9	7	7	7	7	25.1
18-May-07	8	8	13	12	12	12	9	9	18	20	22	24	18	16	23	17	10	9	10	12	10	18	12	14	24.2
19-May-07	16	15	14	24	16	12	11	13	13	10	14	49	30	56	31	47	21	12	7	9	8	8	43	40	55.9
20-May-07	15	12	11	10	8	9	18	16	15	14	17	18	19	20	17	19	17	15	11	9	9	6	5	40	40.2
21-May-07	55	43	16	23	42	29	27	25	27	16	18	32	32	36	52	20	17	24	13	19	29	20	37	20	55.3
22-May-07	14	18	21	30	11	8	11	17	34	21	31	37	24	7	8	8	10	17	15	14	18	18	32	17	37.1
23-May-07	13	27	30	12	9	12	12	17	25	18	26	54	32	16	11	24	41	43	22	11	9	19	53	29	54.5
24-May-07	27	11	46	14	17	15	14	19	62	55	45	42	55	45	31	36	31	19	11	8	8	6	6	6	61.9
25-May-07	7	9	13	7	12	7	9	12	16	21	19	46	54	59	64	64	60	48	44	23	20	15	28	8	64.5
26-May-07	8	9	12	6	13	7	27	18	25	44	60	55	21	31	25	49	10	12	9	26	30	55	62	51	61.7
27-May-07	26	8	13	11	12	24	12	20	19	11	11	30	38	28	17	23	14	11	9	8	11	10	12	10	38.4
28-May-07	7	7	9	10	10	10	13	11	10	12	10	11	10	14	10	12	9	9	9	13	30	23	17	17	30.2
29-May-07	22	31	38	23	17	24	48	16	26	18	20	28	38	50	54	72	60	42	29	17	9	11	12	11	72.2
30-May-07	10	8	10	8	6	7	9	12	15	21	21	27	25	44	23	27	50	47	32	8	9	20	56	25	56.3
31-May-07	14	52	34	18	12	11	21	21	45	31	25	44	61	51	54	37	16	20	31	8	17	60	64	63	63.7
Hourly Max	58	52	46	56	42	48	51	65	62	68	60	68	61	62	64	72	65	48	56	26	66	60	64	63	

1-hr Average Wind Rose (in km/hr) Located at the Valleyview Site for May 2007



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	289
5	to	10	284
10	to	20	148
20	to	30	23
30	to	40	0
	>	40	0
Total Non-Zero Values			744

# PASZA

## Monthly Passive Data Summary

**Table 1. PASZA Passive Stations for May 2007**

PASZA					
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
<b>Duplicates</b>					
7a	Steeprock Creek	0.3	39.0	0.3	
7b	Steeprock Creek	0.3	42.1	0.2	
12a	Hythe	0.2	31.7	0.6	
12b	Hythe	0.2	35.3	0.6	
14a	Sylvester	0.1	29.4	0.4	
14b	Sylvester	0.1	31.7	0.5	
16a	Beaverlodge	0.2	39.2		
16b	Beaverlodge	0.2	40.0	0.8	
49a	Grande Prairie HP	0.2	35.1	4.0	
49b	Grande Prairie HP	0.2	34.6	4.0	
1	Silver Valley	0.2	33.6	0.7	08-27-081-11 W6M
2	Bay Tree	0.2	36.4	0.1	13-16-078-13 W6M
3	Forth Creek	0.2	37.2	0.4	04-13-082-07 W6M
4	Gordondale	0.2	43.8	0.6	04-34-078-10 W6M
5	Boone Creek	0.2	33.8	0.9	01-23-076-11 W6M
7	Steeprock Creek	0.3	40.5	0.2	09-35-072-13 W6M
9	Spirit River	0.2	34.9	0.9	08-12-079-07 W6M
10	Woking	0.2	33.7	0.6	01-13-076-07 W6M
11	Webber Creek	0.2	34.8	0.6	09-36-074-09 W6M
12	Hythe	0.2	33.5	0.6	14-36-072-11 W6M
14	Sylvester	0.1	30.5	0.4	08-06-069-12 W6M
16	Beaverlodge	0.2	39.6	0.8	15-36-071-10 W6M
17	Poplar	0.1	34.9	0.7	13-06-073-08 W6M
18	Saddle Hills	0.3	34.6	0.5	04-25-074-07 W6M
19	Wanham	0.3	37.2	0.3	16-22-077-03 W6M
20	Shaftesbury	0.1	30.7	0.3	04-03-082-23 W5M

**Table 1. PASZA Passive Stations for May 2007 (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	31.7	0.4	16-21-079-25 W5M
23	Bear Lake	0.3	31.3	1.3	15-31-072-06 W6M
24	Wembley	0.1	36.3	1.1	12-31-070-08 W6M
25	Pinto Creek	0.1	34.2	0.6	04-24-069-11 W6M
26	Flyingshot	0.2	32.6	0.9	15-36-070-07 W6M
27	Grande Prairie I	0.2	37.5	3.5	08-15-071-06 W6M
28	Clairmont Lake	0.2	38.2	0.6	09-06-073-04 W6M
29	Smoky Heights	0.3	38.7	0.4	04-06-075-02 W6M
30	Fitzsimmons	0.1	35.4	0.7	15-36-072-03 W6M
32	Gold Creek	0.2	27.9	0.6	06-33-067-05 W6M
33	Wapiti	0.2	37.3	0.4	02-25-071-03 W6M
34	Puskwaskau	0.1	29.5	0.1	15-35-074-25 W5M
35	Jean Cote	0.2	31.0	0.8	12-35-079-21 W5M
36	Guy	0.2	35.0	0.4	03-04-076-22 W5M
37	Crooked Creek	0.1	34.2	0.5	16-01-071-26 W5M
38	Karr Creek				10-16-065-02 W6M
39	Clouston Creek	0.2	34.6	0.3	12-01-073-22 W5M
40	McLennan	0.2	35.4	1.2	03-29-077-19 W5M
41	Valleyview	0.3	36.3	0.4	09-30-069-22 W5M
42	Sunset House	0.2	37.9	0.1	05-32-070-19 W5M
43	High Prairie	0.1	31.6	0.8	16-13-074-17 W5M
44	Peavine	0.1	32.9	0.1	03-05-079-15 W5M
45	Gift Lake	0.1	30.4	0.4	10-07-079-12 W5M
46	Little Smoky	0.2	32.7	1.1	12-01-065-21 W5M
47	Kinuso	0.1	34.8	0.2	12-10-073-10 W5M
48	Deer Mountain	0.1	35.0	0.1	15-22-068-09 W5M
49	Grande Prairie HP	0.2	34.8	4.0	17-26-071-06 W6M

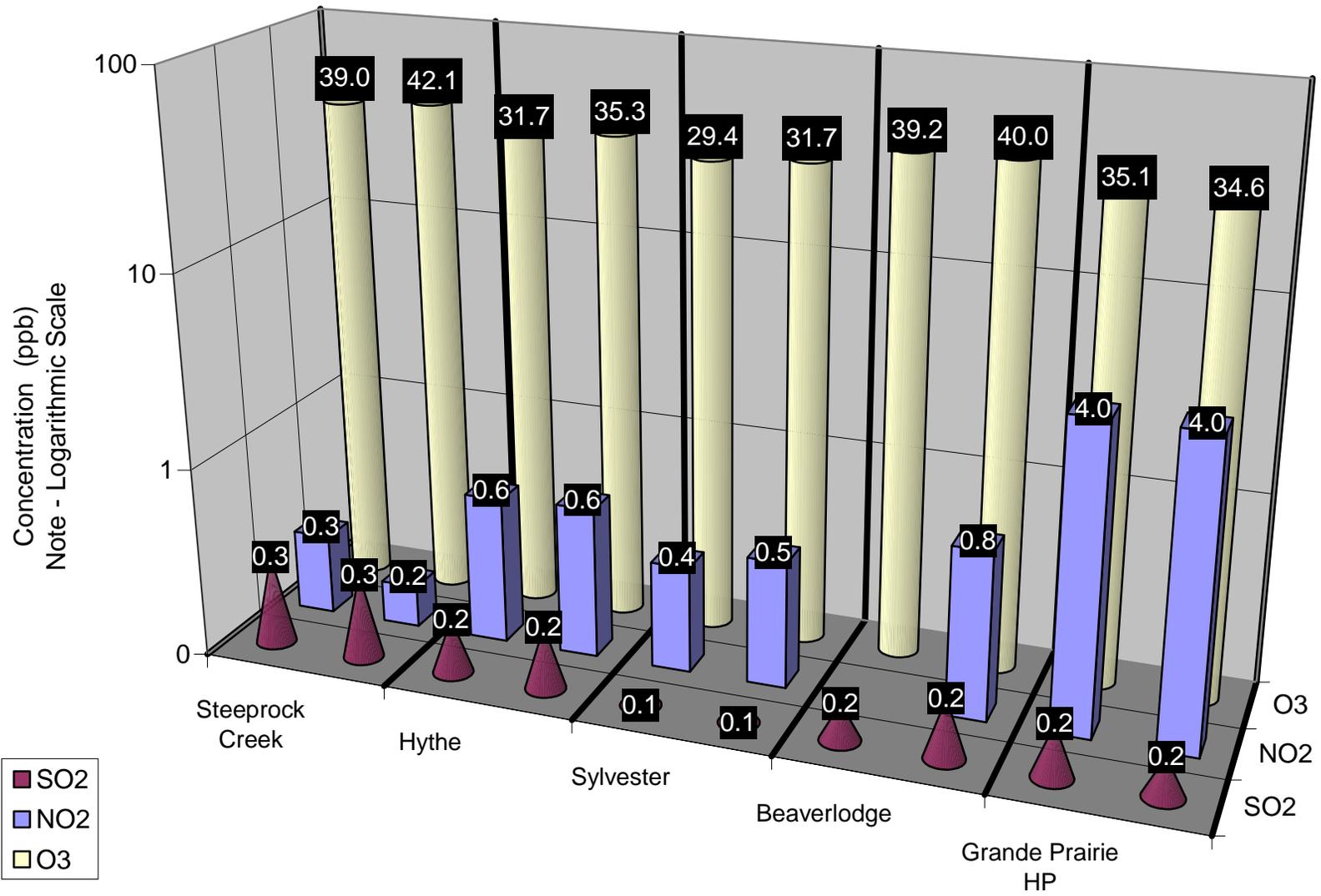


Figure 64. Duplicate Summary Chart

**Table 2. Passive Summary Results for May 2007**

Stats	Sulphur Dioxide SO <sub>2</sub>	Ozone O <sub>3</sub>	Nitrogen Dioxide NO <sub>2</sub>
	ppb	ppb	ppb
<b>Passive Summary for May 2007 (PASZA Zone)</b>			
Mean	<b>0.2</b>	<b>34.7</b>	<b>0.7</b>
Standard Deviation	<b>0.1</b>	<b>3.1</b>	<b>0.8</b>
Minimum	<b>0.1</b>	<b>27.9</b>	<b>0.1</b>
Minimum At	<b>Sylvester (#14)</b>	<b>Gold Creek (#32)</b>	<b>Peavine (#44)</b>
Maximum	<b>0.3</b>	<b>43.8</b>	<b>6.0</b>
Maximum At	<b>Steeprock Creek (#7)</b>	<b>Gordondale (#4)</b>	<b>Grande Prairie HP</b>
<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	<b>0.2</b>	<b>36.4</b>	<b>1.9</b>
PASZA Beaverlodge passive	<b>0.2</b>	<b>39.6</b>	<b>0.8</b>
<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	<b>0.1</b>	<b>31.6</b>	<b>7.4</b>
PASZA Grande Prairie passive	<b>0.2</b>	<b>34.8</b>	<b>4.0</b>

**PASZA Passive SO<sub>2</sub> Stations - May 2007**  
**Average Concentrations in ppb**

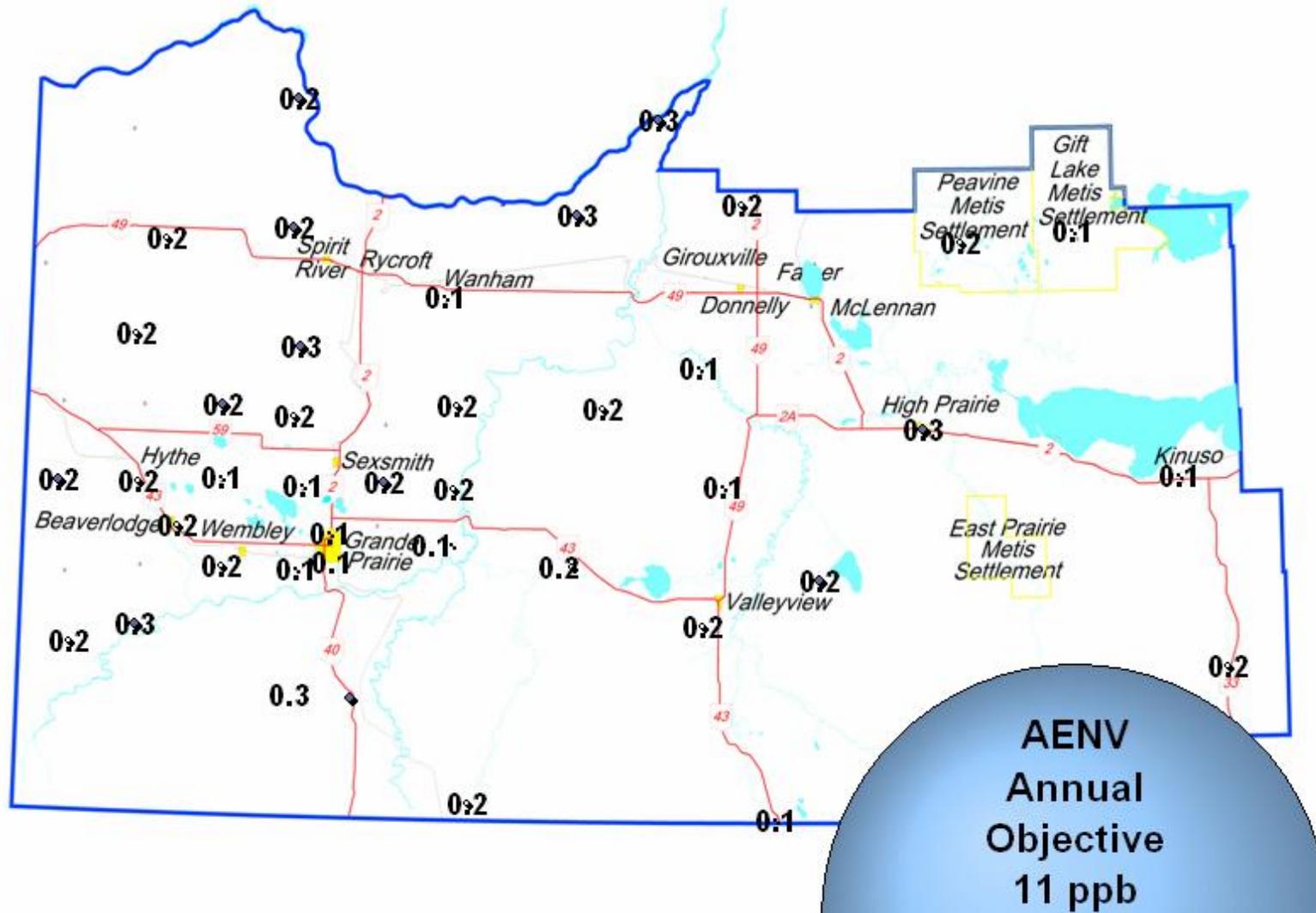
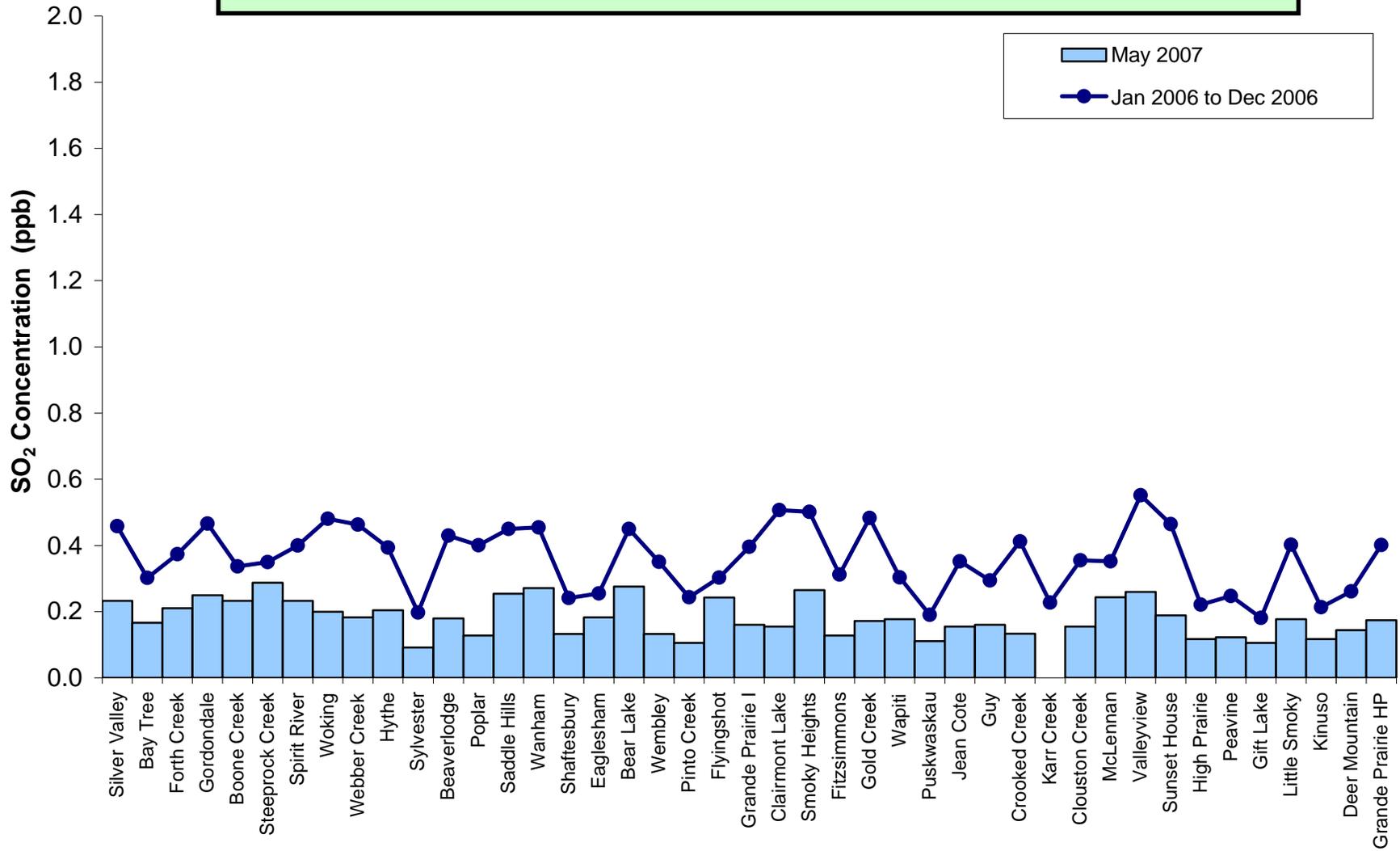


Figure 65. SO<sub>2</sub> Bubble Chart

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



**Figure 66. SO<sub>2</sub> Summary Chart**

**PASZA Passive O<sub>3</sub> Stations - May 2007**  
**Average Concentrations in ppb**

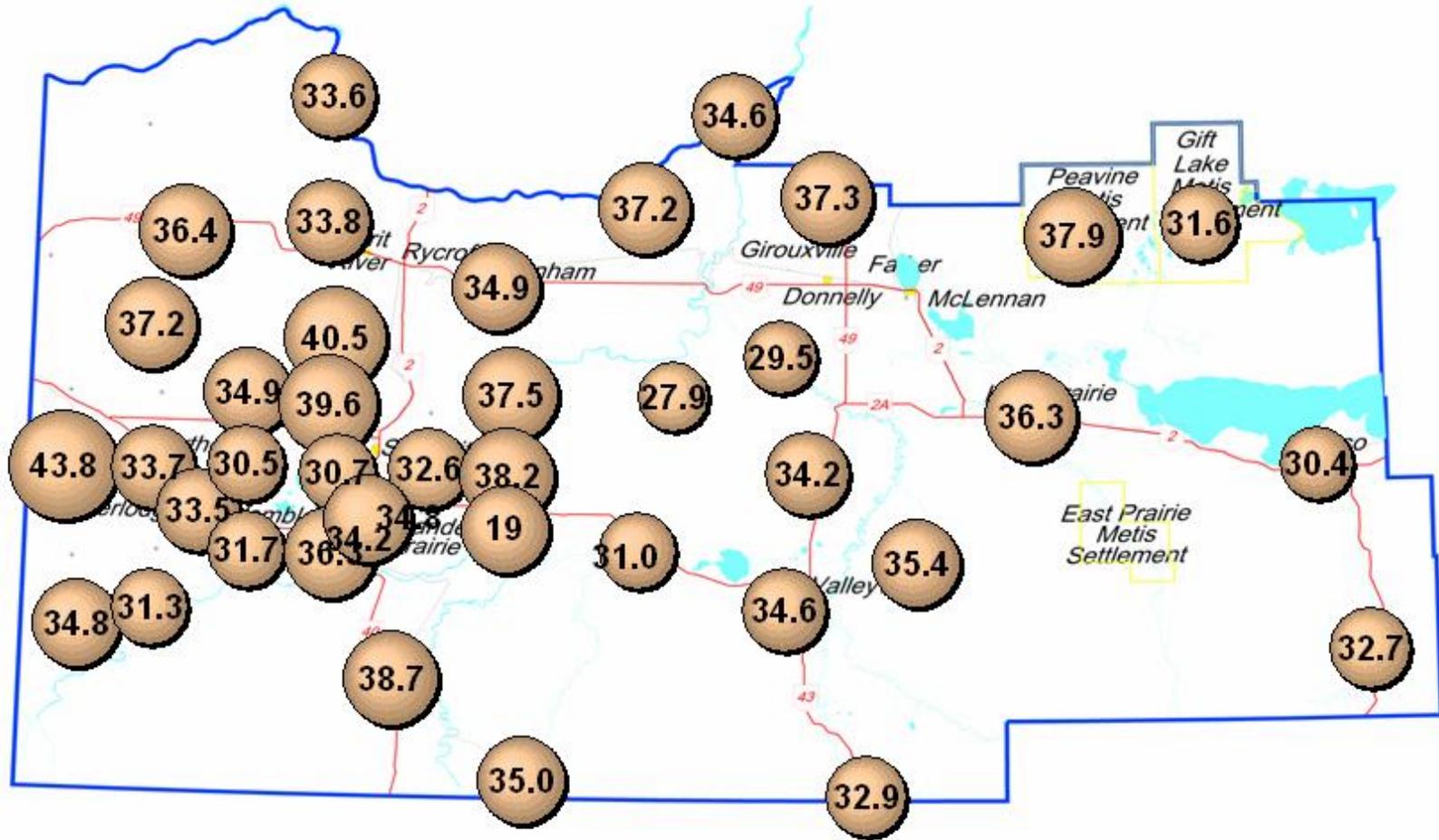
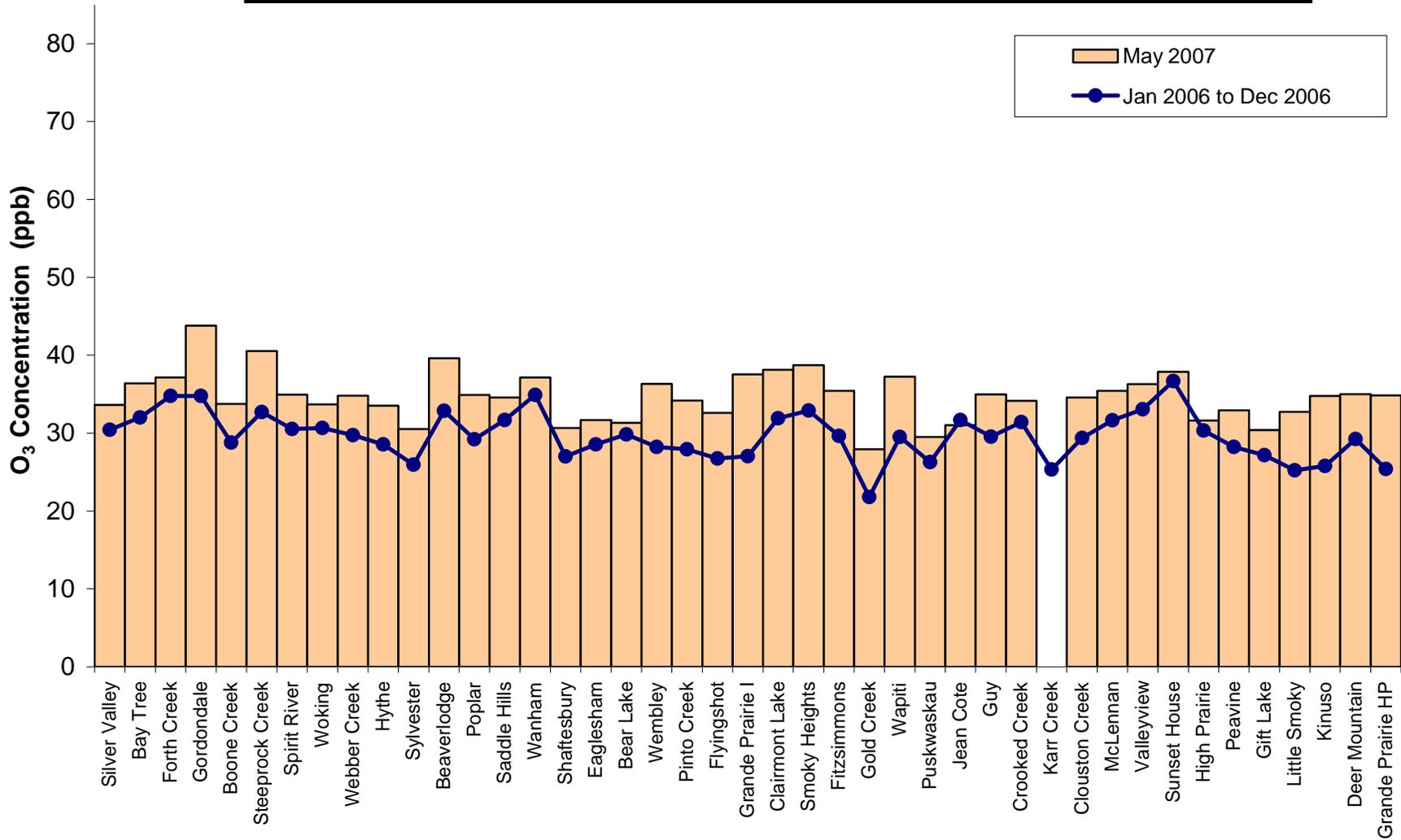


Figure 67. O<sub>3</sub> Bubble Chart

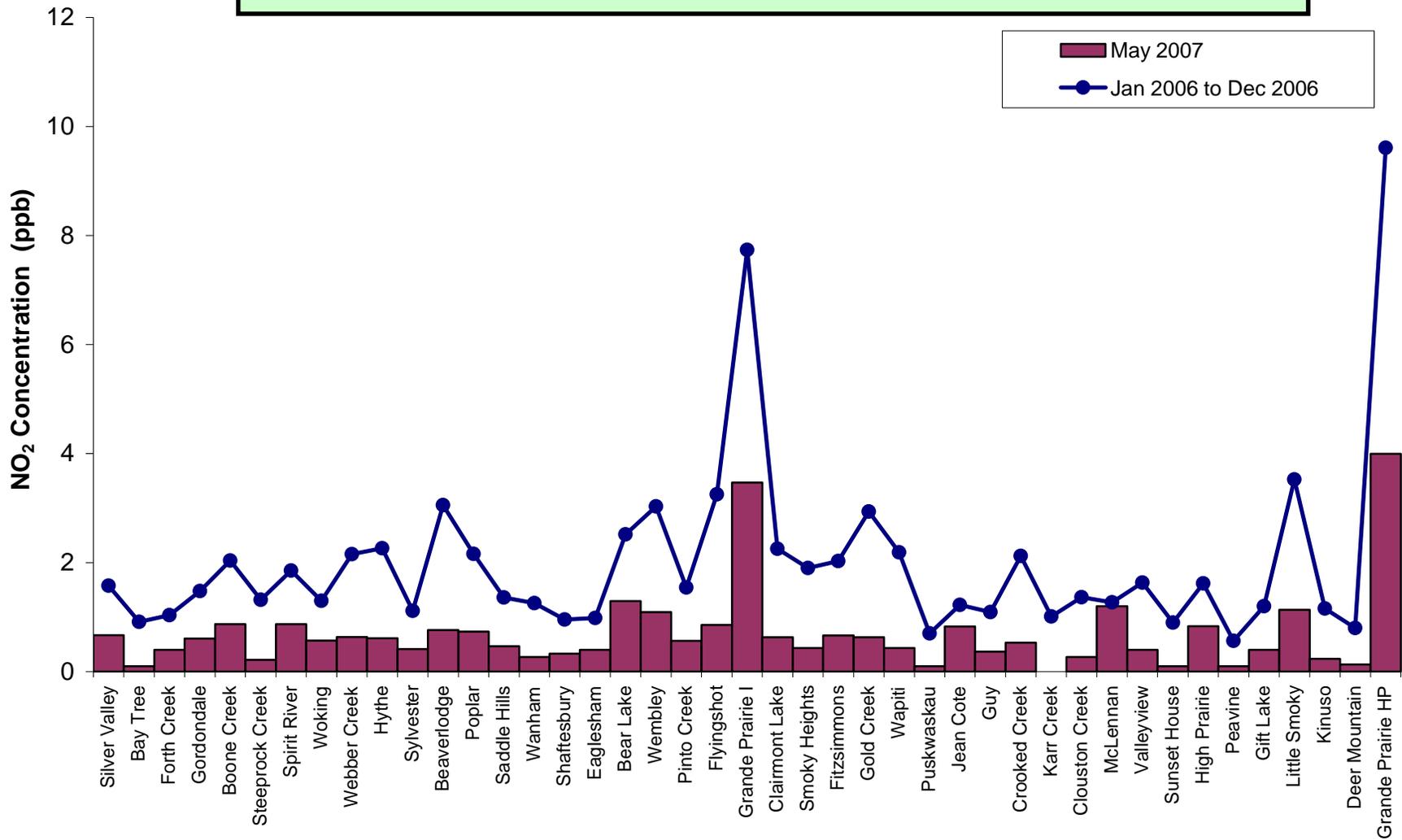
**Alberta Ambient Air Quality Objective - No Annual O<sub>3</sub> Objective**



**Figure 68. O<sub>3</sub> Summary Chart**



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



**Figure 70. NO<sub>2</sub> Summary Chart**

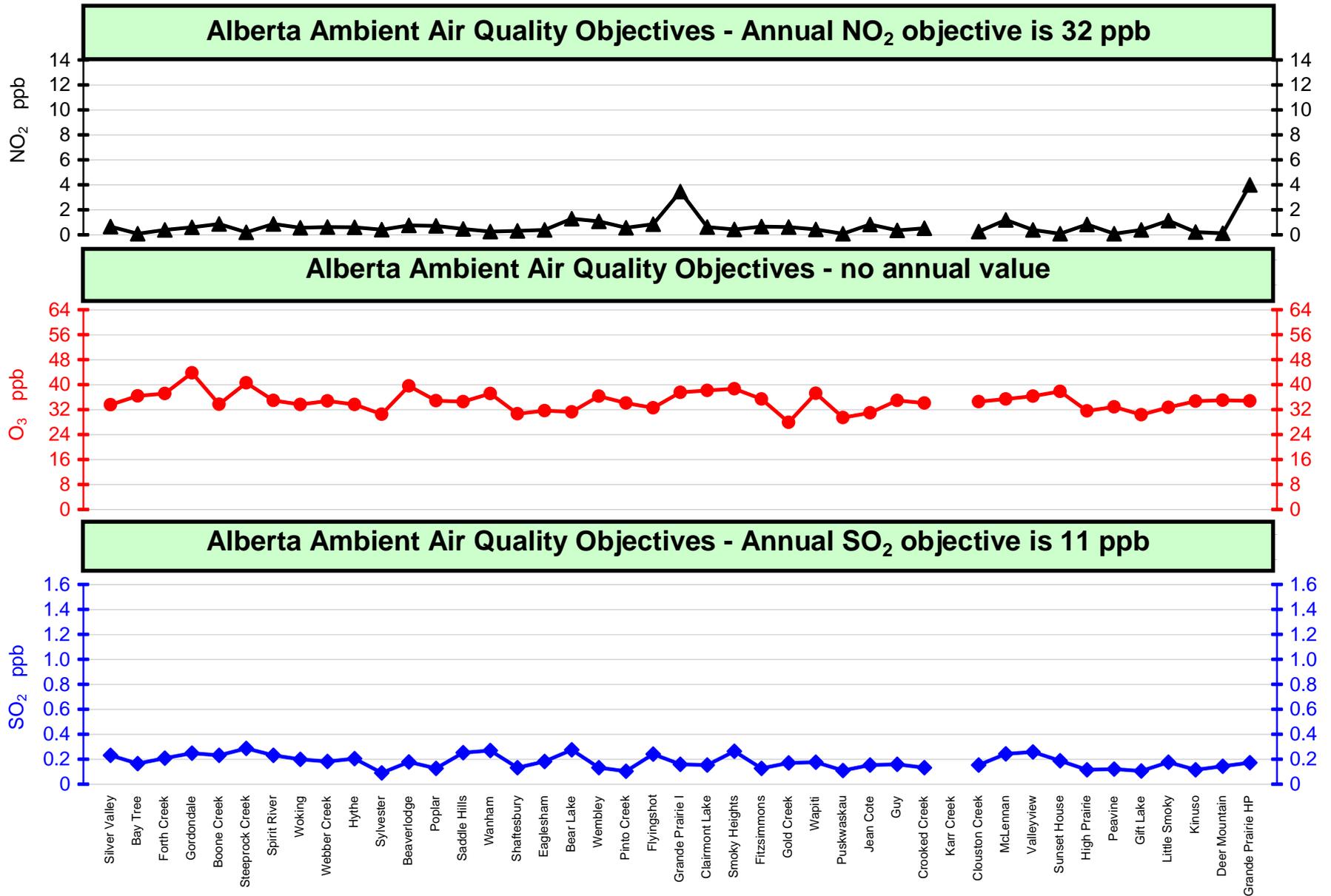


Figure 71. Overview Summary

## **May 2007 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**

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

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

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

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

**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>**

**PASZA – Falher (Portable) Station with the following calibrations:**

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

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

**SO<sub>2</sub>, H<sub>2</sub>S**

Calibration Report				<b>FOCUS</b> AIR QUALITY MONITORING	
Parameter	SO <sub>2</sub>				
Air Monitoring Network	PASZA				
<b>Station Information</b>					
Calibration Date	May 9, 2007		Previous Calibration	April 12, 2007	
Station Number	1		Station Location	Henry Pirker - Muskoseepi Park	
Reason:	Routine	Install	Removal	Other:	
Start Time (MST)	9:36		End Time (MST)		
Barometric Pressure	27.4	inches Hg	Station Temperature	20.0	Deg C
Calibrator	VICI Metronics		Serial Number	111-1695	
Perm-tube Conc	1,946	ng/min	Perm-tube Date	8/8/2006	
Correction factor	0.932763		Perm-tube Cert #	19-25218	
DACS make	Focus AP1000		DACS serial No.	45266	
DACS voltage range	0 - 10 volt		DACS channel #	4	
	Before			After	
Calculated slope	1.006116		Calculated slope	0.977108	
Calculated intercept	-0.372494		Calculated intercept	1.073917	
Analyzer make	TEI Model 43A		Analyzer serial #	43A-21120-195	
	before			after	
Concentration range	0 - 500		ppb	0 - 500	
SO <sub>2</sub> zero pot	172			172	
SO <sub>2</sub> span pot	108			108	
UV Lamp voltage	953		V	953	
Vacuum	22		" Hg	22	
Sample Flow	420		ccm	420	
<b>Calibration Data</b>					
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	2425.2	0.0	0.4	N/A	
2600	2425.2	306.3	312.9	0.9787	
5010	4673.1	158.9	161.5	0.9844	
9195	8576.8	86.6	85.6	1.0119	
zero	2425.2	0.0	0.4	As Found Zero	
2600	2425.2	306.3	312.9	As Found Span	
Average Correction Factor				0.9917	
Calculated value of As Found Response:	314.113 ppm		Percent Change of As Found:	-2.6%	
	before calibration			after calibration	
Auto zero	-0.5	ppm	NA	ppm	
Auto span	269.1	ppm	NA	ppm	
Notes:	Shutdown calibration.				
Calibration Performed By:	Dawn Ewan				

## Calibration Summary

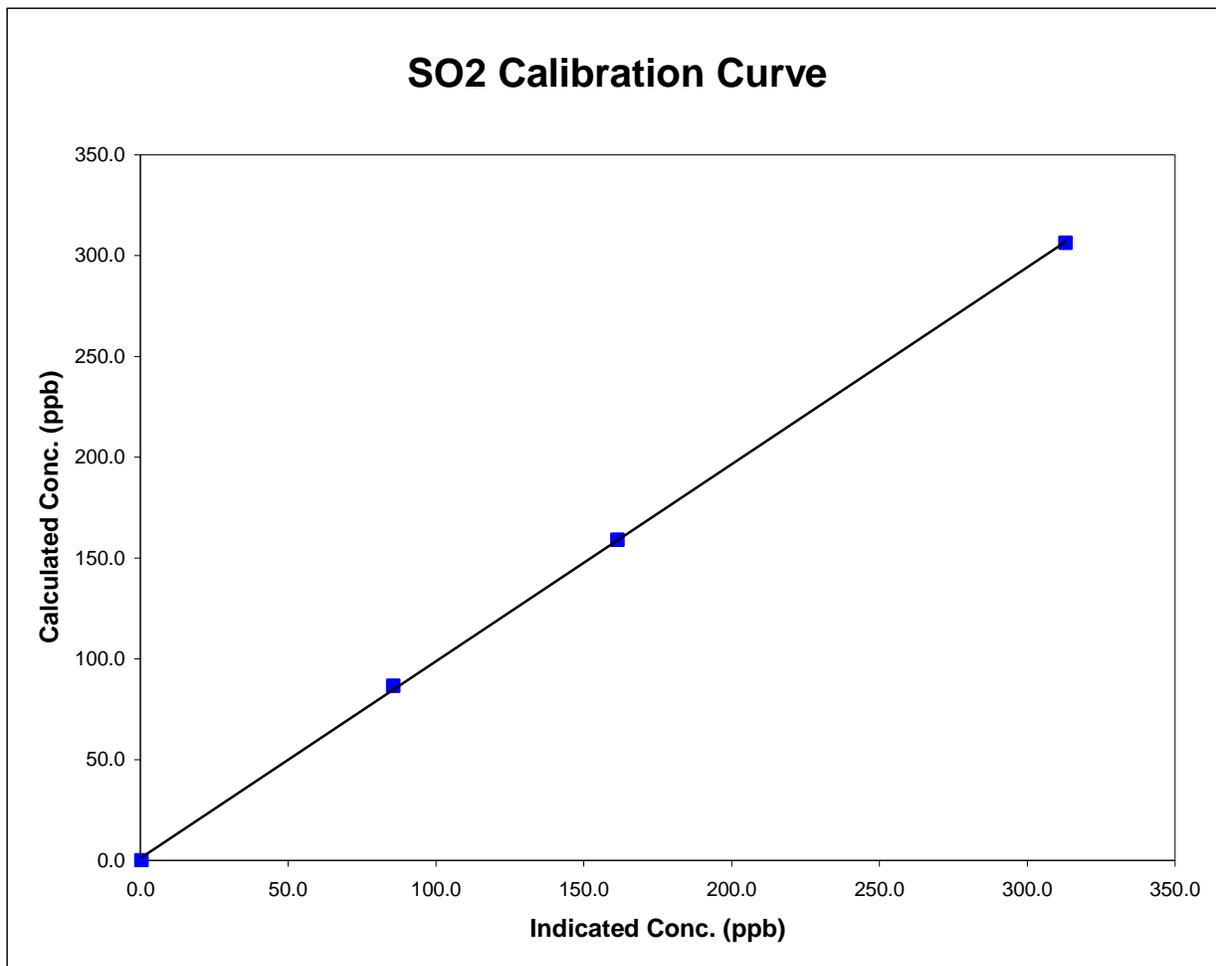
Parameter **SO2**Air Monitoring Network **PASZA**

### Station Information

Calibration Date	May 9, 2007	Previous Calibration	April 12, 2007
Station Number	1	Station Location	Henry Pirker - Muskoseepi Park
Start Time (MST)	9:36	End Time (MST)	0:00
Analyzer make/model	TEI Model 43A	Analyzer serial #	43A-21120-195

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.4	N/A		
306.3	312.9	0.9787	Correlation Coefficient	0.999880
158.9	161.5	0.9844		
86.6	85.6	1.0119	Slope	0.977108
			Intercept	1.073917



### SO2 Calibration



May 9, 2007

# Calibration Report

Parameter

SO<sub>2</sub>

Air Monitoring Network

PASZA



## Station Information

Calibration Date	May 10, 2007	Previous Calibration	April 12, 2007
Station Number	1	Station Location	Henry Pirker - Muskoseepi Park
Reason:	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:14	End Time (MST)	13:58
Barometric Pressure	27.7 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	1,946 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.940921	Perm-tube Cert #	19-25218
DACS make	Focus AP1000	DACS serial No.	45266
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
Calculated slope		Calculated slope	0.975761
Calculated intercept		Calculated intercept	2.629219

Analyzer make

TEI Model 43c

Analyzer serial #

	before		after	
Background coefficient		ppb	7.2	ppb
Lamp Voltage			.785	
Chamber Temp			822	
Pressure		V	42.9	V
Sample Flow		" Hg	645.5	" Hg
		ccm	465	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	2437.0	0.0	0.0	N/A
2590	2437.0	304.8	310.8	0.9807
5076	4776.1	155.5	156.2	0.9955
9160	8618.8	86.2	82.3	1.0471
zero	2413.5	0.0	0.0	As Found Zero
2565	2413.5	307.8	286.5	As Found Span
Average Correction Factor				1.0078

Calculated value of As Found Response: NA

Percent Change of As Found: NA

	before calibration		after calibration	
Auto zero	-0.5	ppm	NA	ppm
Auto span	269.1	ppm	NA	ppm

Notes:

Calibration Performed By:

Dawn Ewan

## Calibration Summary

Parameter **SO2**

Air Monitoring Network **PASZA**

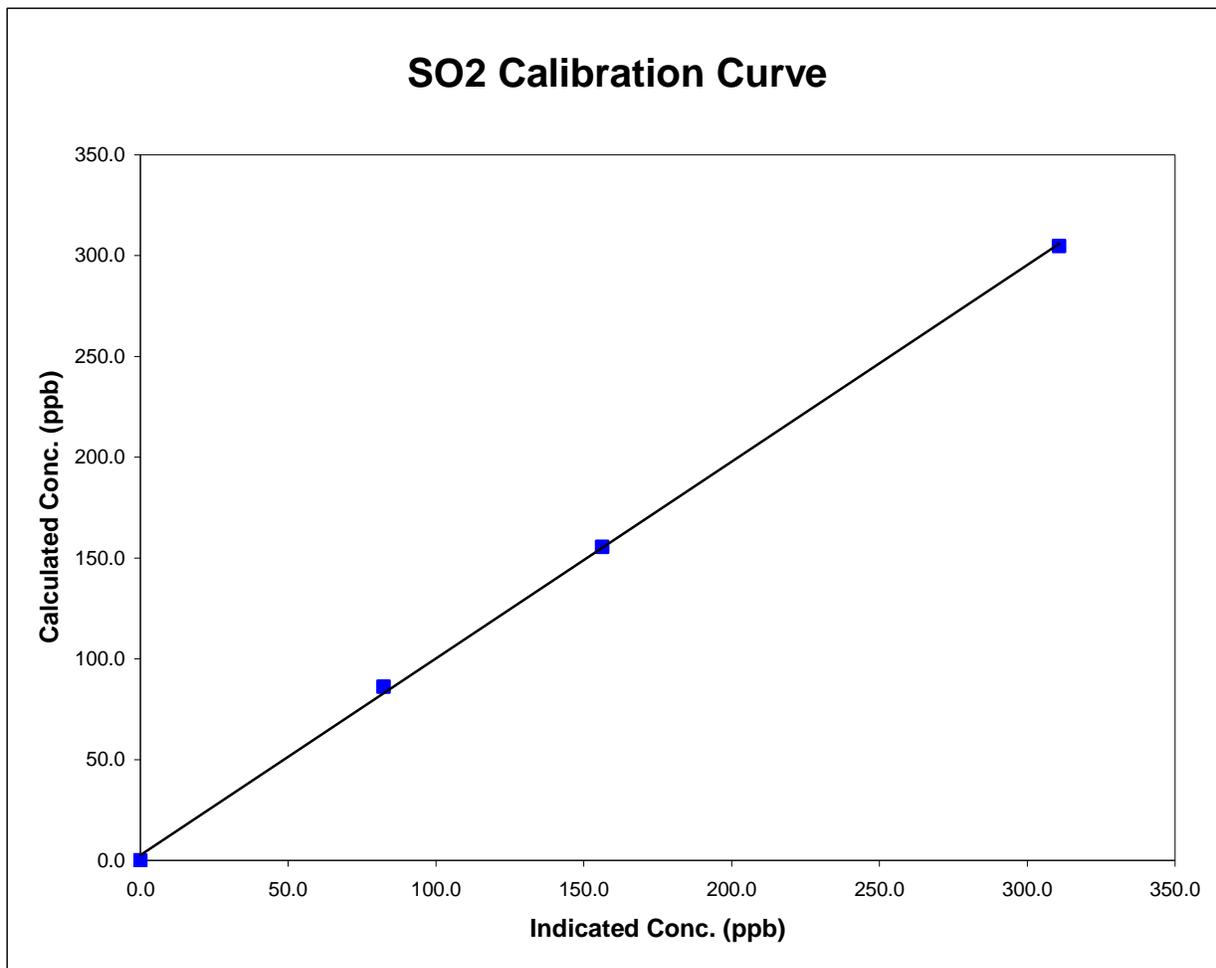


### Station Information

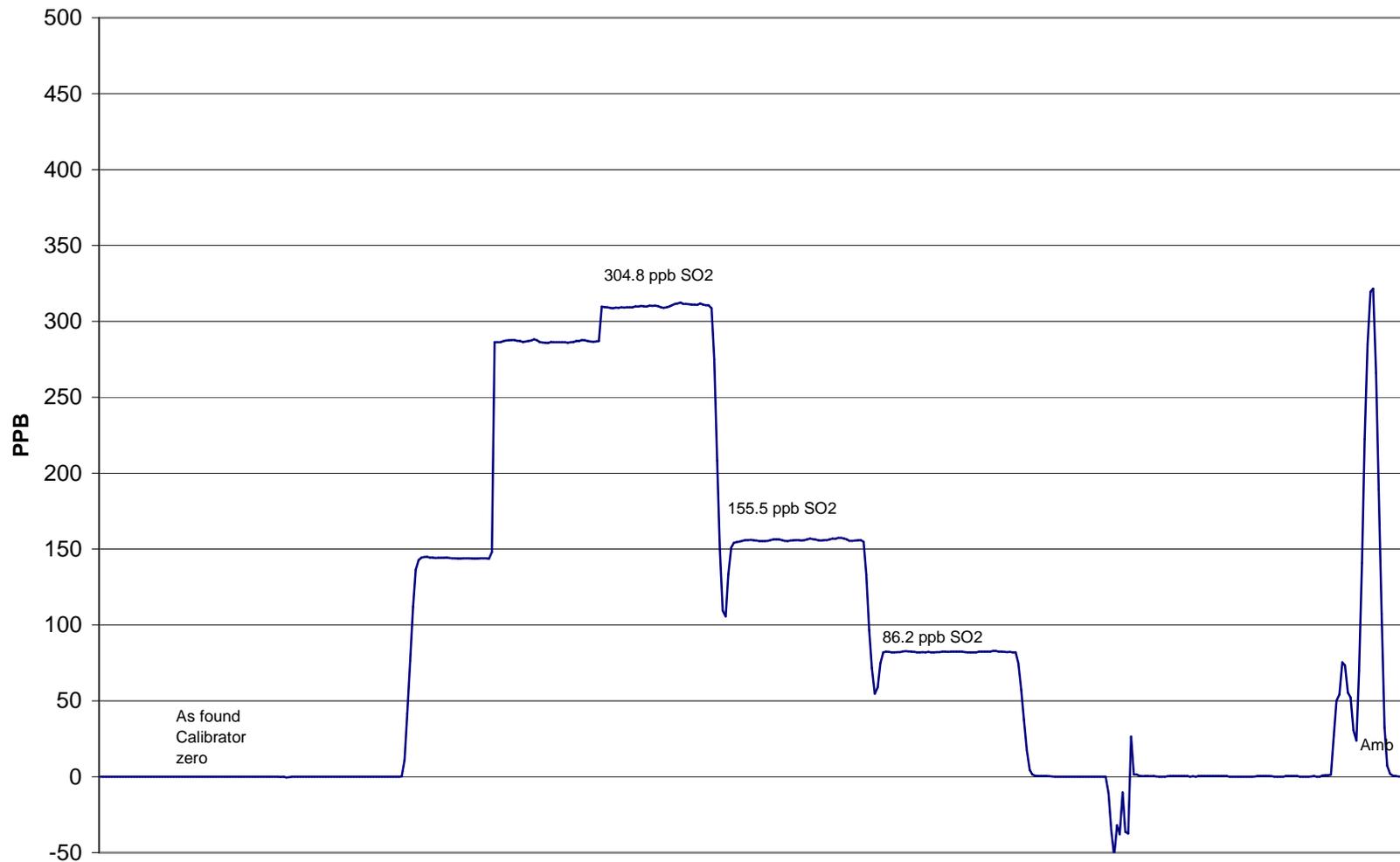
Calibration Date	May 10, 2007	Previous Calibration	April 12, 2007
Station Number	1	Station Location	Henry Pirker - Muskoseepi Park
Start Time (MST)	10:14	End Time (MST)	13:58
Analyzer make/model	TEI Model 43c	Analyzer serial #	0

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
304.8	310.8	0.9807	Correlation Coefficient	0.999624
155.5	156.2	0.9955		
86.2	82.3	1.0471	Slope	0.975761
			Intercept	2.629219



### SO2 Calibration



May 10, 2007

# Calibration Report

Parameter

NOx-NO-NO<sub>2</sub>

Air Monitoring Network

PASZA



## Station Information

Calibration Date	May 8, 2007	Previous Calibration	April 13, 2007		
Station Number	1	Station Location	Henry Pirker - Muskoseepi Park		
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Installation	<input type="checkbox"/> Removal		
Other:					
Start Time (MST)	9:50	End Time (MST)	15:33		
Barometric Pressure	0.920	Atm	Station Temperature	20.0	Deg C
Calibrator	EnviroNics 6103	Serial Number	2844		
NO Cal Gas Conc	49.5	ppm	Cal Gas Expiry Date	2-Jan-09	
NOx Cal Gas Conc	49.6	ppm	Cal Gas Serial #	FF-5013	

## DACS Information

DACS make FOCUS AP1000      DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	Data Slope	1.006041	1.005868	1.001590
	Data Offset	0.003759	-2.618832	-2.077511
After	Data Slope	1.011915	1.006546	1.002788
	Data Offset	-0.371890	-0.051103	0.166070
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	9.2	ppb	9.2	mV
NOx background	9.4	ppb	9.4	mV
NO coefficient	0.845		0.845	
NOx coefficient	0.995		0.995	
Chamber Temp	49.7	Deg C	49.7	Deg C
Cooler Temp	-2.4	Deg C	-2.4	Deg C
Converter Temp	319.0	Deg C	319.0	Deg C
Vacuum	193.4	mm Hg	193.4	mm Hg

Notes:

---



---



---

# Calibration Report

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



## Station Information

Calibration Date: **May 8, 2007** Station Location: Henry Pirker - Muskoseepi 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	-0.2	-0.2	0.0	N/A	N/A	
1	4992	39.93	393.6	392.8	0.8	390.7	391.4	-0.8	1.0074	1.0035	
2	4992	19.91	197.0	196.7	0.4	196.6	196.2	0.3	1.0022	1.0021	
3	4992	10.00	99.2	99.0	0.2	98.4	98.3	0.1	1.0075	1.0063	
AFZ	4992	0.00	0.0	0.0	0.0	-2.3	-0.7	-1.5	0.0000	0.0000	
AFS	4992	39.93	393.6	392.8	0.8	329.4	327.8	1.7	1.1950	1.1984	
									Average Correction Factor	1.0057	1.0039

As Found Concentrations: NO<sub>x</sub>= 329.1 NO= 326.4 As Found Percent Change NO<sub>x</sub>= -16.4% NO= -16.9%

### GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

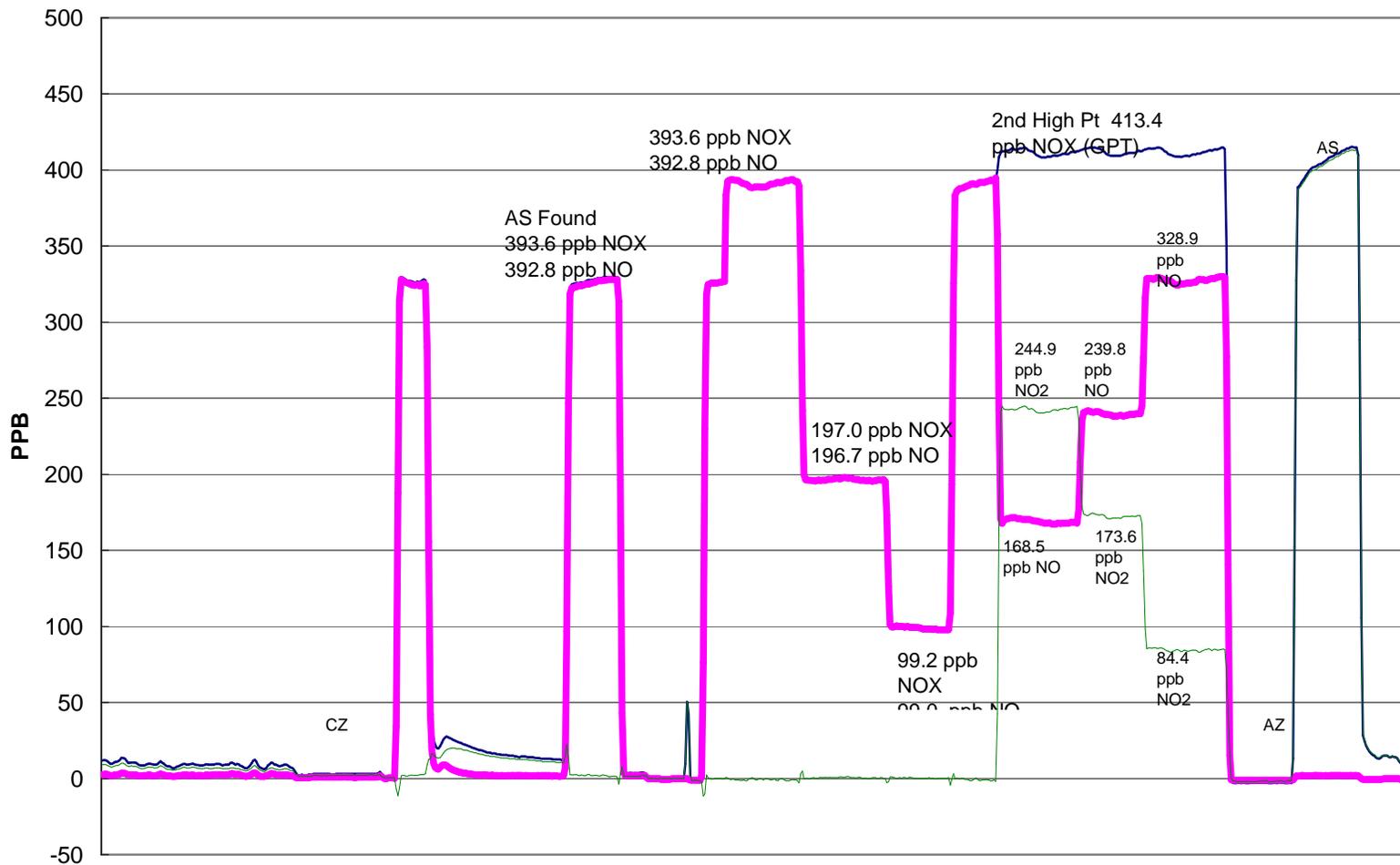
O3 Setpoint (ppb)	Calculated NO <sub>x</sub> conc (ppb)	Calculated NO conc (ppb)	Calculated NO <sub>2</sub> conc (ppb)	Indicated NO <sub>x</sub> conc (ppb)	Indicated NO conc (ppb)	Indicated NO <sub>2</sub> conc (ppb)	NO <sub>x</sub> Correction factor	NO Correction factor	NO <sub>2</sub> Correction factor	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	413.4	392.7	20.7	390.5	391.4	-0.9	1.0585	1.0032	N/A	N/A	
300	413.4	168.5	244.9	409.8	167.9	242.2	1.0088	1.0038	1.0111	98.9%	
200	413.4	239.8	173.6	410.5	238.9	171.9	1.0069	1.0035	1.0100	99.0%	
100	413.4	328.9	84.4	411.9	327.9	84.4	1.0036	1.0033	1.0007	99.9%	
							Average Correction Factor	1.0064	1.0035	1.0073	99.3%

### 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	-0.5	1.0	1.1	ppb	8.6	1.0	3.2	ppb
Auto span	353.0	353.3	0.4	ppb	414.5	414.5	2.2	ppb

Calibration Performed By: Dawn Ewan

### NOx Calibration



May 8, 2007

## Calibration Summary

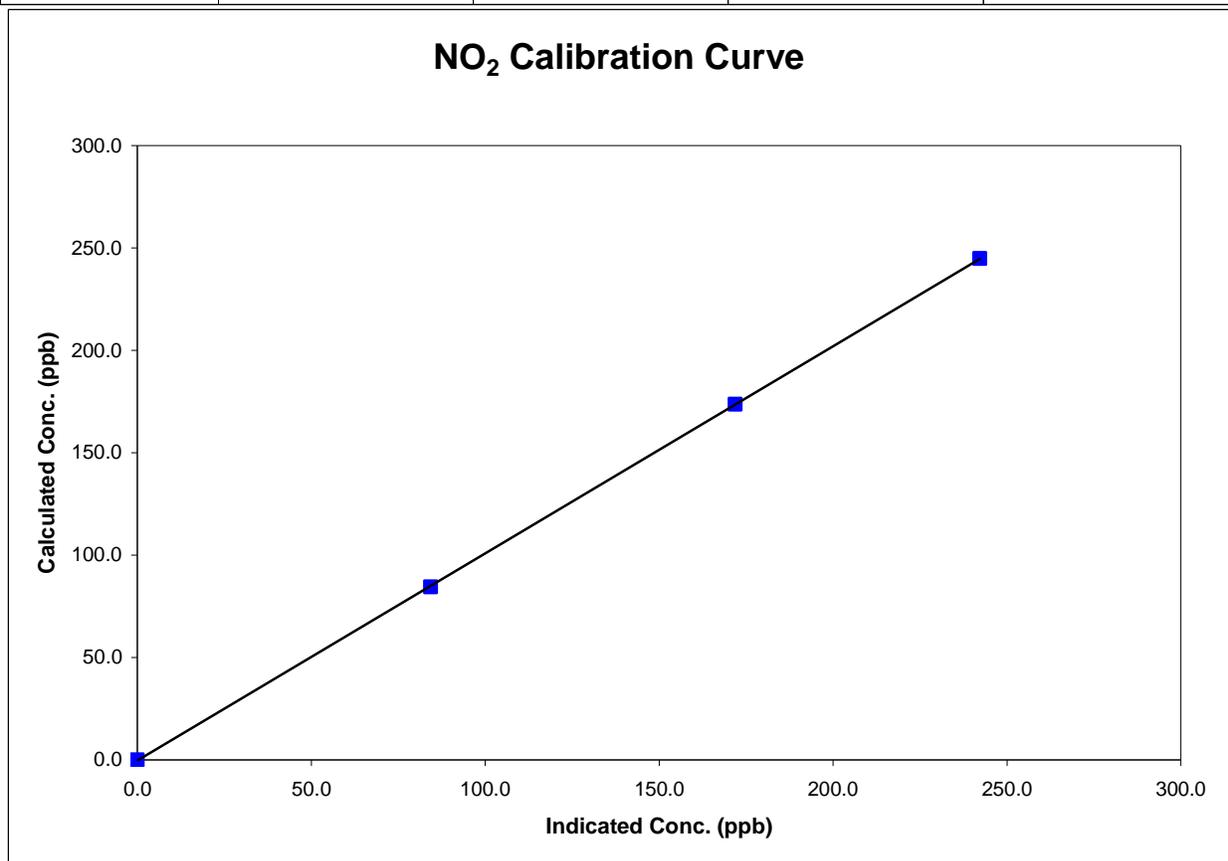
Parameter **NO<sub>2</sub>**Air Monitoring Network **PASZA**

### Station Information

Calibration Date	May 8, 2007	Previous Calibration	April 13, 2007
Station Number	1	Station Location	Henry Pirker - Muskoseepi Park
Start Time (MST)	9:50	End Time (MST)	15:33
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		
244.9	242.2	1.0111	Correlation Coefficient	0.999986
173.6	171.9	1.0100		
84.4	84.4	1.0007	Slope	1.011915
			Intercept	-0.371890



## Calibration Summary

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

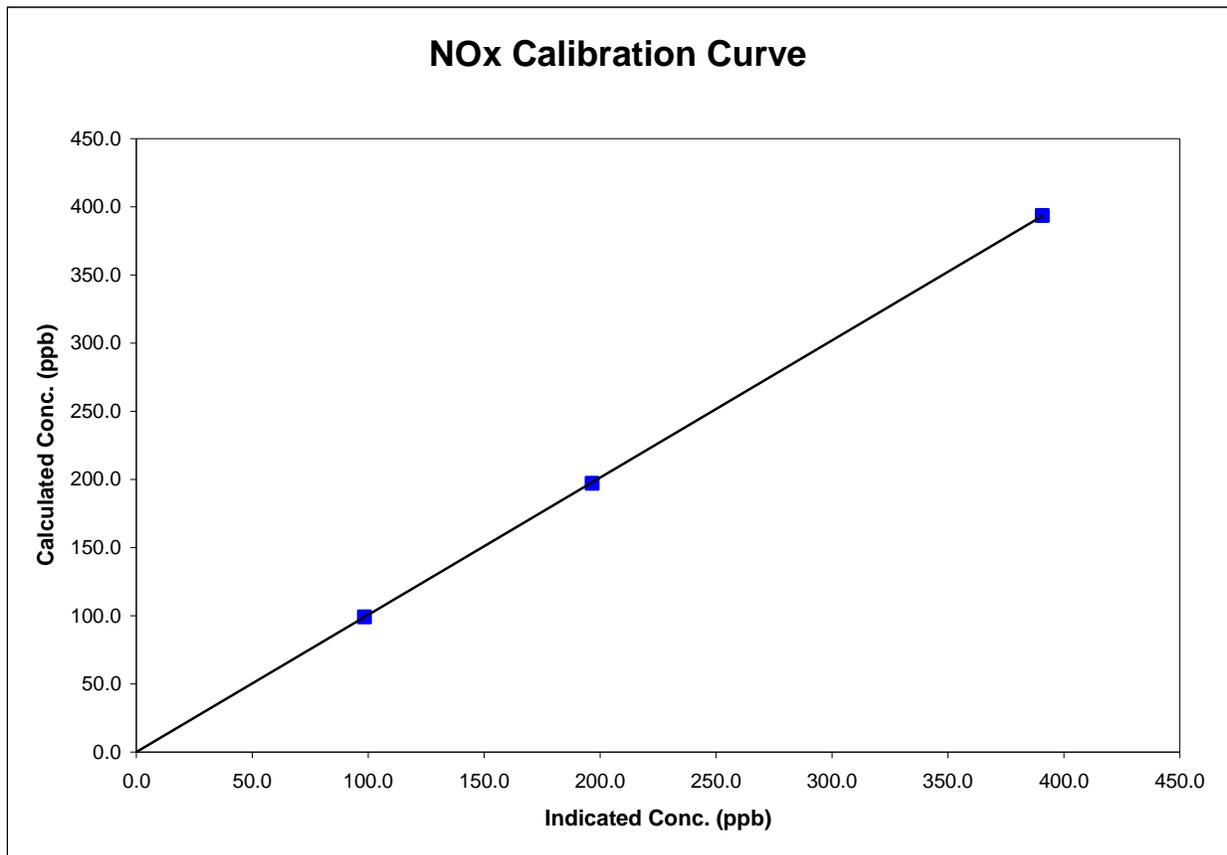


### Station Information

Calibration Date	May 8, 2007	Previous Calibration	April 13, 2007
Station Number	1	Station Location	Henry Pirker - Muskoseepi Park
Start Time (MST)	9:50	End Time (MST)	15:33
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	-0.2	0.0000	Correlation Coefficient	0.999990
393.6	390.7	1.0074		
197.0	196.6	1.0022		
99.2	98.4	1.0075		
			Slope	1.006546
			Intercept	-0.051103



## Calibration Summary

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

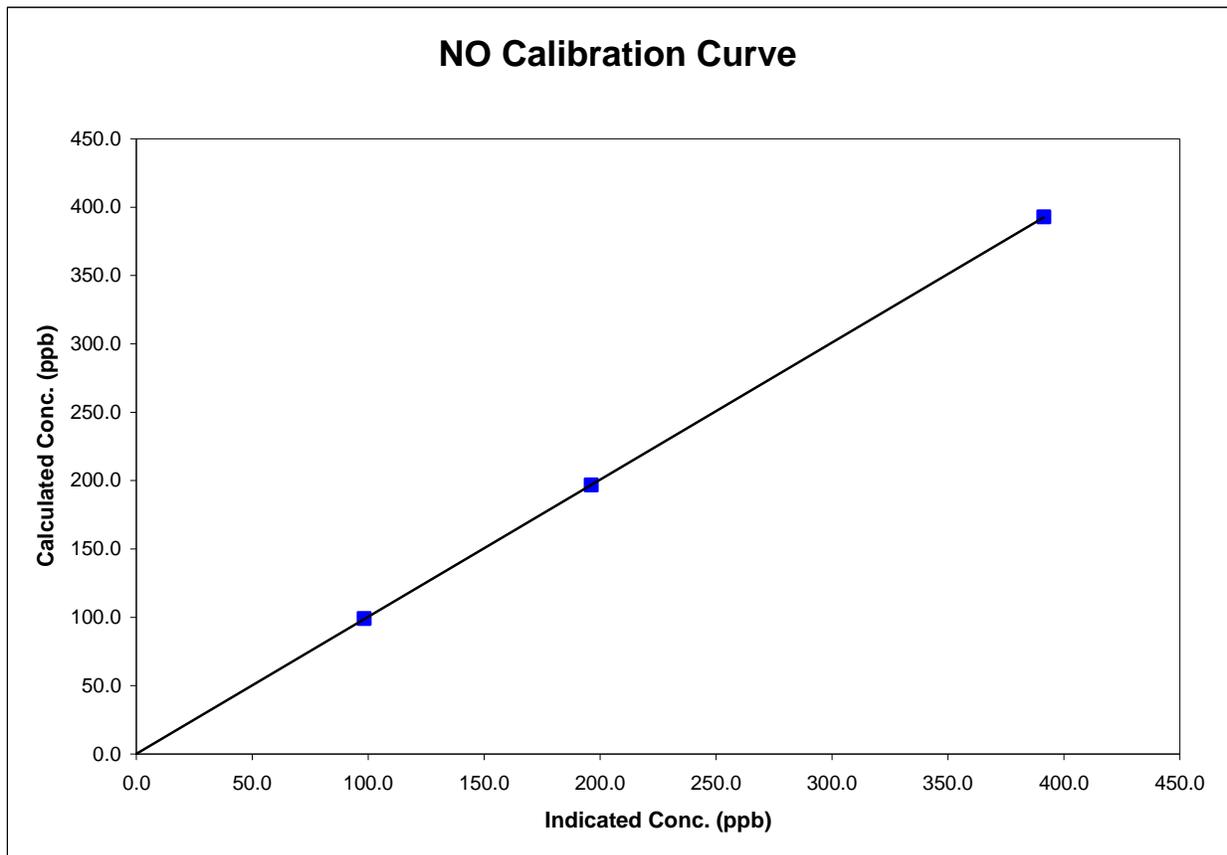


### Station Information

Calibration Date	May 8, 2007	Previous Calibration	April 13, 2007
Station Number	1	Station Location	Henry Pirker - Muskosepi Park
Start Time (MST)	9:50	End Time (MST)	15:33
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	-0.2	N/A		
392.8	391.4	1.0035	Correlation Coefficient	0.999998
196.7	196.2	1.0021		
99.0	98.3	1.0063	Slope	1.002788
			Intercept	0.166070



**Calibration Report**Parameter **O3**  
Air Monitoring Network **PASZA****Station Information**

Calibration Date	May 9, 2007	Previous Calibration	April 13, 2007
Station Number	1	Station Location	Henry Pirker - Muskoseepi Park
Reason:	<input type="checkbox"/> Routine	<input type="checkbox"/> Install	<input checked="" type="checkbox"/> Removal
			<input type="checkbox"/> Other:

Start Time (MST)	12:15	End Time (MST)	14:53
Barometric Pressure	0.920 atm	Station Temperature	20.0 Deg C
Calibrator	Enviroics 6103	Serial Number	2844
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA

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

Calculated slope	0.998874	Calculated slope	0.997239
Calculated intercept	0.710186	Calculated intercept	0.287904

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

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
offset	-0.5	ppb	-0.5	ppb
slope	1.023		1.023	
Lamp measure	3500	mV	3500	mV
Lamp Reference	3506	mV	3506	mV
Pressure	27.3	inches Hg	27.3	inches Hg
Sample Flow	667	ccm	667	ccm
ANA Lamp temp	52	Deg C	52	Deg C

**Calibration Data**

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.00	0.0	-0.1	N/A
4992	0.00	278.2	278.2	0.9998
4992	0.00	184.2	185.4	0.9933
4992	0.00	87.6	86.8	1.0098
4992	0.00	0.0	-0.1	As found zero
4992	0.00	278.2	278.2	As found span
Average Correction Factor				1.0010

Calculated value of As Found Response: 278.7 ppm      Percent Change of As Found: 0.2%

	before calibration		after calibration	
Auto zero	1.2	ppb	0.7	ppb
Auto span	239.7	ppb	227.6	ppb

Notes: Removal of API analyzer in preparation for instal of new C from ABENV.  
sn 383Calibration Performed By: Dawn Ewan

# Calibration Summary

Parameter **O3**

Air Monitoring Network **PASZA**

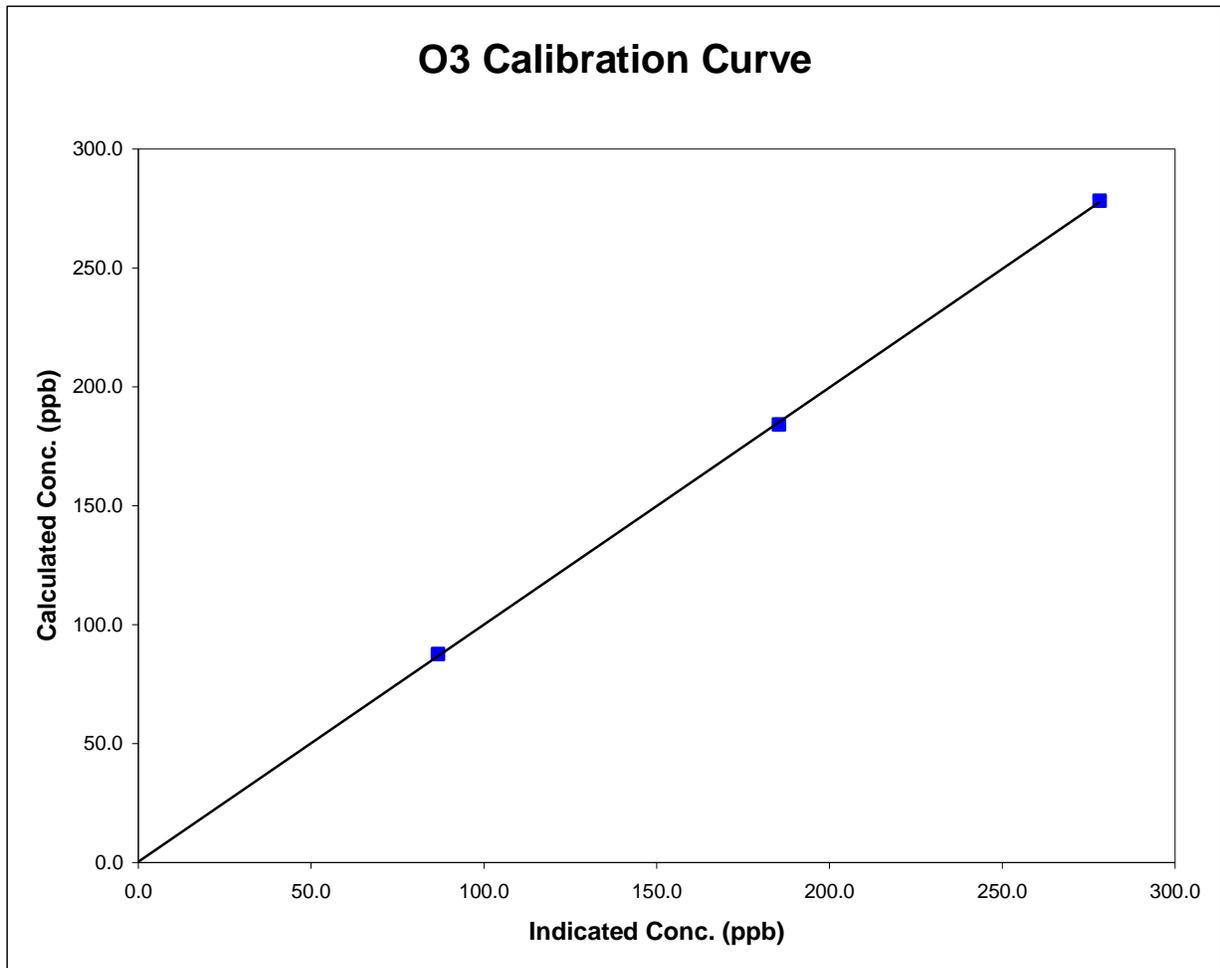


### Station Information

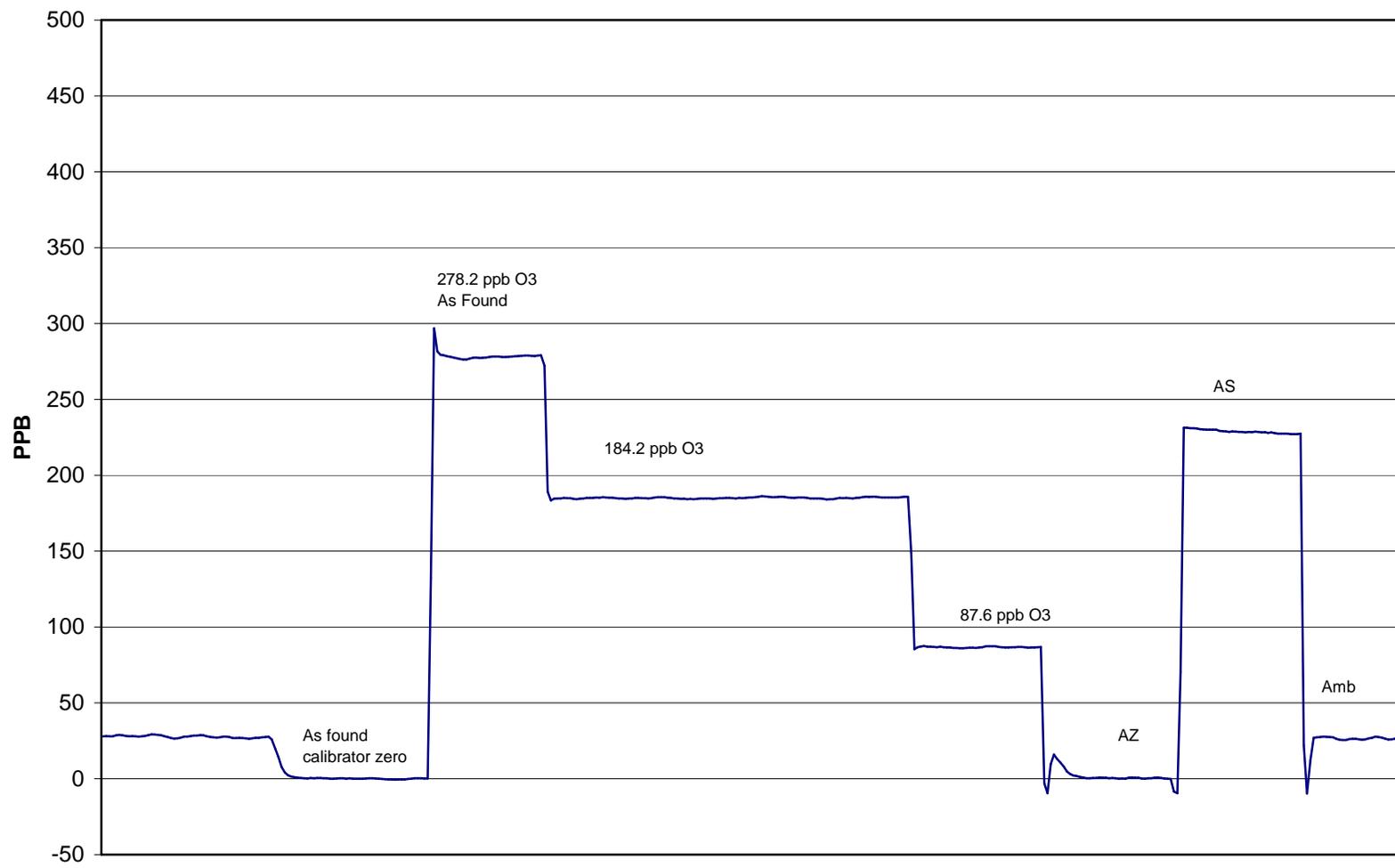
Calibration Date	May 9, 2007	Previous Calibration	April 13, 2007
Station Number	1	Station Location	Henry Pirker - Muskoseepi Park
Start Time (MST)	12:15	End Time (MST)	14:53
Analyzer make/model	API Model 400	Analyzer serial #	383

### Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	NA		
278.2	278.2	0.9998	Correlation Coefficient	0.999956
184.2	185.4	0.9933		
87.6	86.8	1.0098	Slope	0.997239
			Intercept	0.287904



### O3 Calibration



May 9, 2007

**Calibration Report**Parameter **O3**  
Air Monitoring Network **PASZA****Station Information**

Calibration Date	May 14, 2007	Previous Calibration	April 13, 2007
Station Number	1	Station Location	Henry Pirker - Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:

Start Time (MST)	12:30	End Time (MST)	15:40
Barometric Pressure	0.920 atm	Station Temperature	20.0 Deg C
Calibrator	Enviroics 6103	Serial Number	2844
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA

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

Calculated slope	0.998874	Calculated slope	1.114360
Calculated intercept	0.710186	Calculated intercept	1.259732

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

	before		after
Concentration range		ppb	ppb
offset		ppb	ppb
slope			
Lamp measure		mV	mV
Lamp Reference		mV	mV
Pressure		inches Hg	inches Hg
Sample Flow		ccm	ccm
ANA Lamp temp		Deg C	Deg C

**Calibration Data**

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.00	0.0	-0.1	N/A
4992	0.00	278.2	248.9	1.1176
4992	0.00	184.2	164.2	1.1217
4992	0.00	87.6	76.0	1.1524
4992	0.00	0.0	-0.1	As found zero
4992	0.00	244.9	271.3	As found span
Average Correction Factor				1.1305

Calculated value of As Found Response: 271.8 ppm      Percent Change of As Found: 11.0%

	before calibration		after calibration	
Auto zero	1.5	ppb		ppb
Auto span	254.0	ppb	272.3	ppb

Notes: Install of 49C s/n 0607415761Calibration Performed By: Dawn Ewan

## Calibration Summary

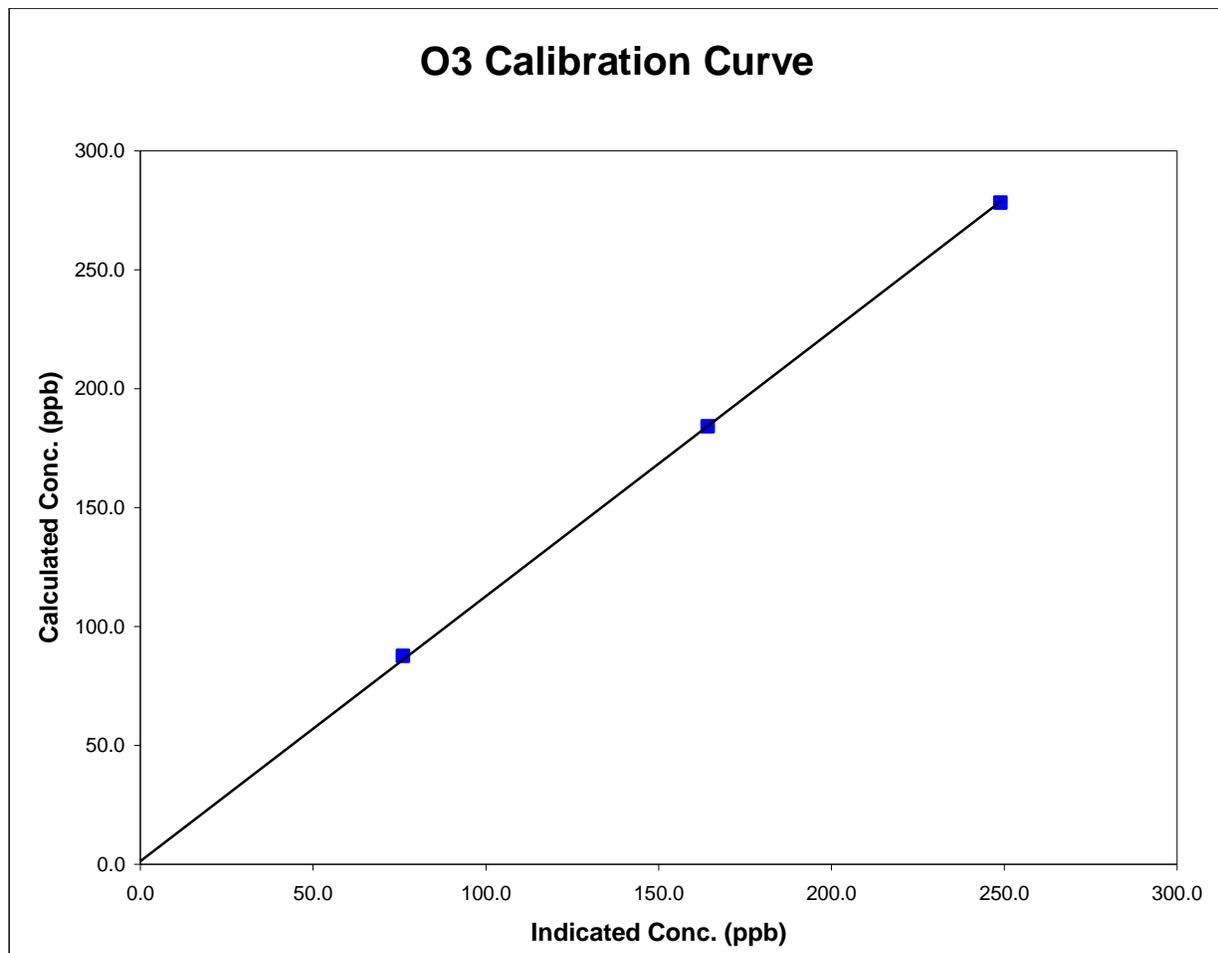
Parameter **O3**Air Monitoring Network **PASZA**

### Station Information

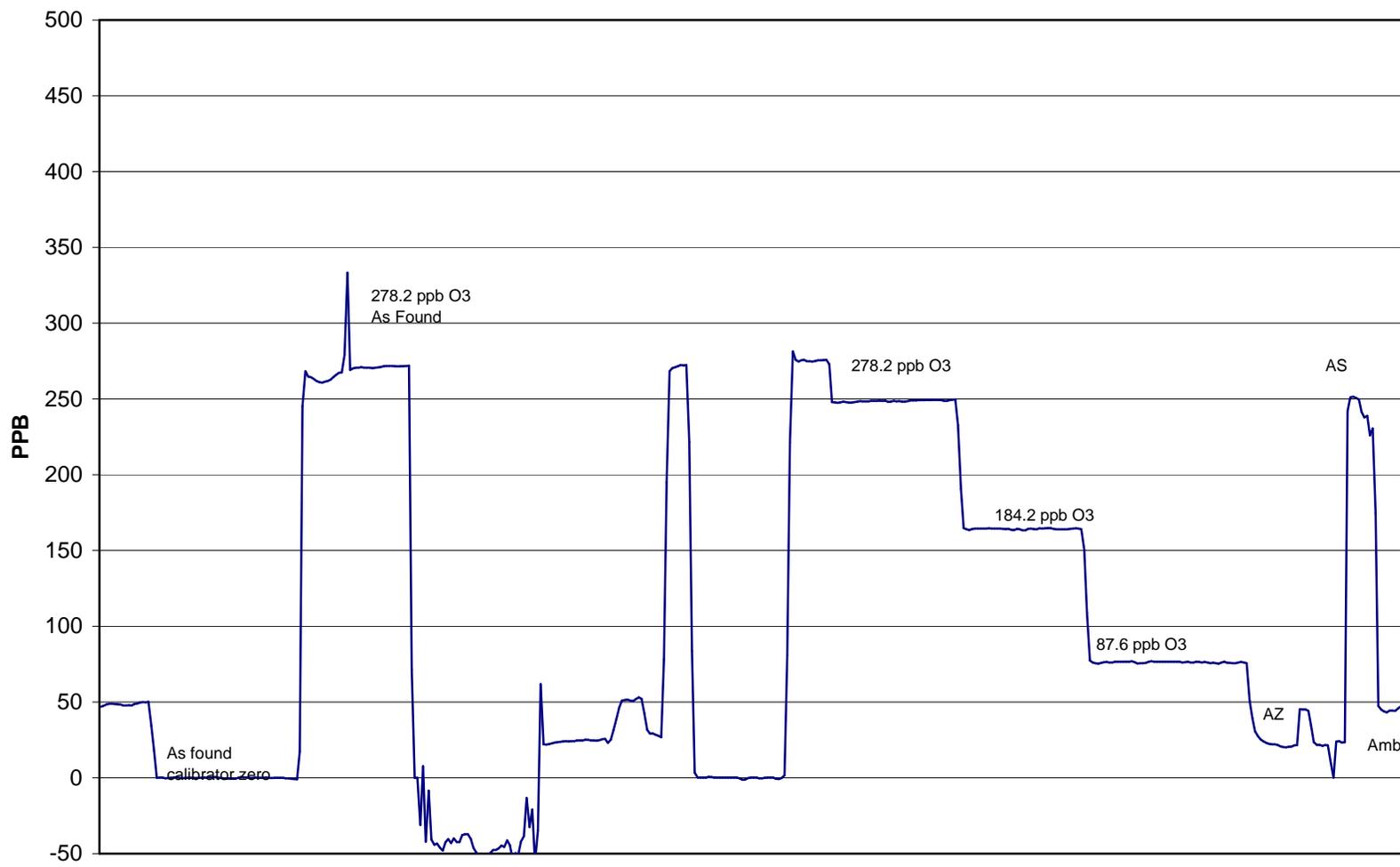
Calibration Date	May 14, 2007	Previous Calibration	April 13, 2007
Station Number	1	Station Location	Henry Pirker - Muskoseepi Park
Start Time (MST)	12:30	End Time (MST)	15:40
Analyzer make/model	TECO 49C	Analyzer serial #	607415761

### Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	NA		
278.2	248.9	1.1176	Correlation Coefficient	0.999905
184.2	164.2	1.1217		
87.6	76.0	1.1524	Slope	1.114360
			Intercept	1.259732



### O3 Calibration



May 14, 2007

<b>Calibration Report</b>				<b>FOCUS</b>	
Parameter	CO			<b>AIR QUALITY MONITORING</b>	
Air Monitoring Network	PASZA				
<b>Station Information</b>					
Calibration Date	May 9, 2007	Previous Calibration	April 12, 2007		
Station Number	1	Station Location	Henry Pirker - Muskoseepi Park		
Reason:	Routine	Install	Removal	Other:	
Start Time (MST)	9:00	End Time (MST)	12:55		
Barometric Pressure	0.920 ATM	Station Temperature	20.0	Deg C	
Calibrator	EnviroNics 6103	Serial Number	2488		
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	1.005089	Calculated slope	1.005284		
Calculated intercept	-0.137645	Calculated intercept	0.020895		
Analyzer make	TEI Model 48C	Analyzer serial #	508011062		
	before		after		
Concentration range	0 - 25	ppm	0 - 25	ppm	
CO span setting	1.57		1.57		
CO zero setting	9.750		9.750		
Sample pressure	682	mm Hg	682	mm Hg	
Sample Flow	1.091	LPM	1.091	LPM	
<b>Calibration Data</b>					
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	0.01	N/A	
4994	39.94	23.80	23.66	1.0058	
4994	19.91	11.91	11.84	1.0065	
4994	10.00	6.00	5.90	1.0163	
4994	0.00	0.00	0.09	As Found Zero	
4994	39.94	23.80	23.74	As Found Span	
Average Correction Factor				1.0095	
Calculated value of As Found Response:	23.633 ppm	Percent Change of As Found:	0.7%		
	before calibration		after calibration		
Auto zero	-0.07	ppm	-0.15	ppm	
Auto span	19.63	ppm	14.92	ppm	
Notes:					
Calibration Performed By:	Dawn Ewan				

## Calibration Summary

Parameter **CO**

Air Monitoring Network **PASZA**

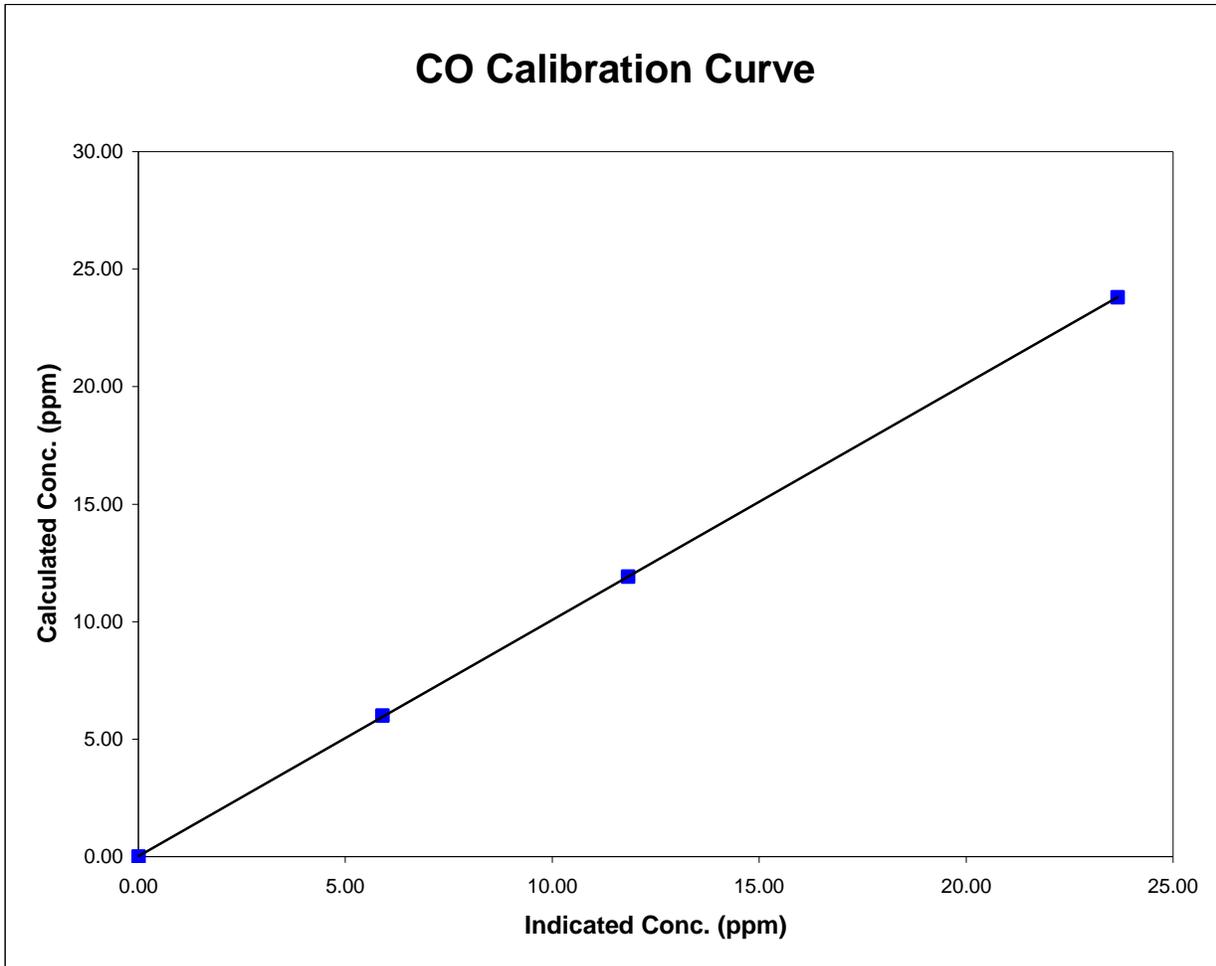


### Station Information

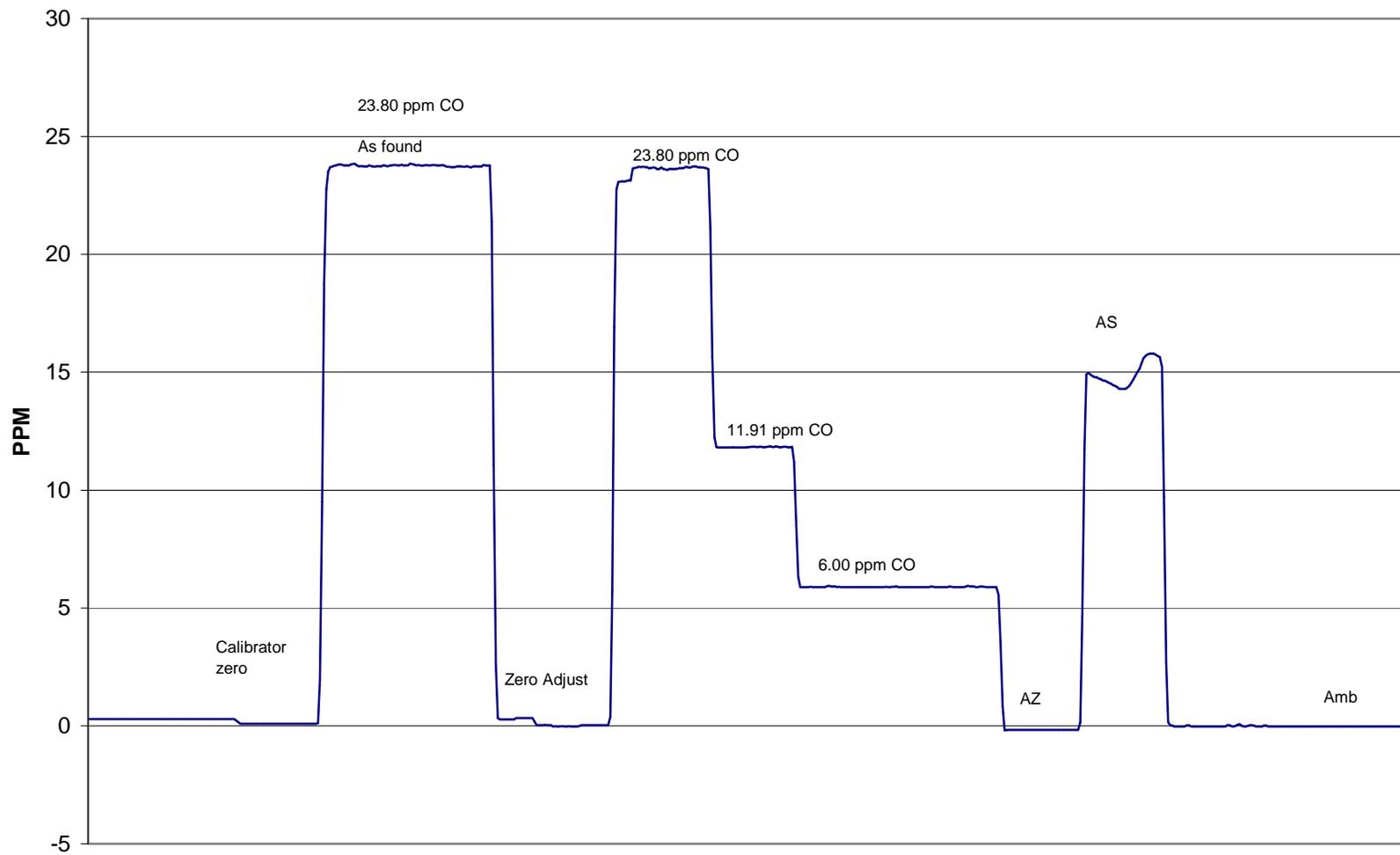
Calibration Date	May 9, 2007	Previous Calibration	April 12, 2007
Station Number	1	Station Location	Henry Pirker - Muskosepi Park
Start Time (MST)	9:00	End Time (MST)	12:55
Analyzer make/model	TEI Model 48C	Analyzer serial #	508011062

### Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.009	N/A		
23.802	23.664	1.0058	Correlation Coefficient	0.999991
11.913	11.836	1.0065		
5.995	5.899	1.0163	Slope	1.005284
			Intercept	0.020895



### CO Calibration



May 9, 2007

# Calibration Report

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



## Station Information

Calibration Date	May 10, 2007	Previous Calibration	April 10, 2007
Station Number	1	Station Location	Henry Pirker - Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:00	End Time (MST)	11:57
Barometric Pressure	0.935 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2844
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	1.004166	Calculated slope	1.005894
Calculated intercept	-0.047525	Calculated intercept	-0.138932
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	6.07	psi
THC span counts	7246	capture	7246	capture
THC zero counts	432	capture	432	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	0.11	N/A
4992	64.92	19.54	19.65	0.9947
4992	39.95	12.08	11.99	1.0080
4993	9.95	3.03	3.26	0.9282
4992	0.00	0.00	0.11	As Found Zero
4992	64.92	19.54	19.65	As Found Span
Average Correction Factor				0.9770

Calculated value of As Found Response: 19.573 ppm      Percent Change of As Found: -0.2%

	before calibration		after calibration	
Auto zero	-0.04	ppm	0.04	ppm
Auto span	22.95	ppm	22.58	ppm

Notes: No adjustments made.

Calibration Performed By: Dawn Ewan

# Calibration Summary



Parameter **THC**

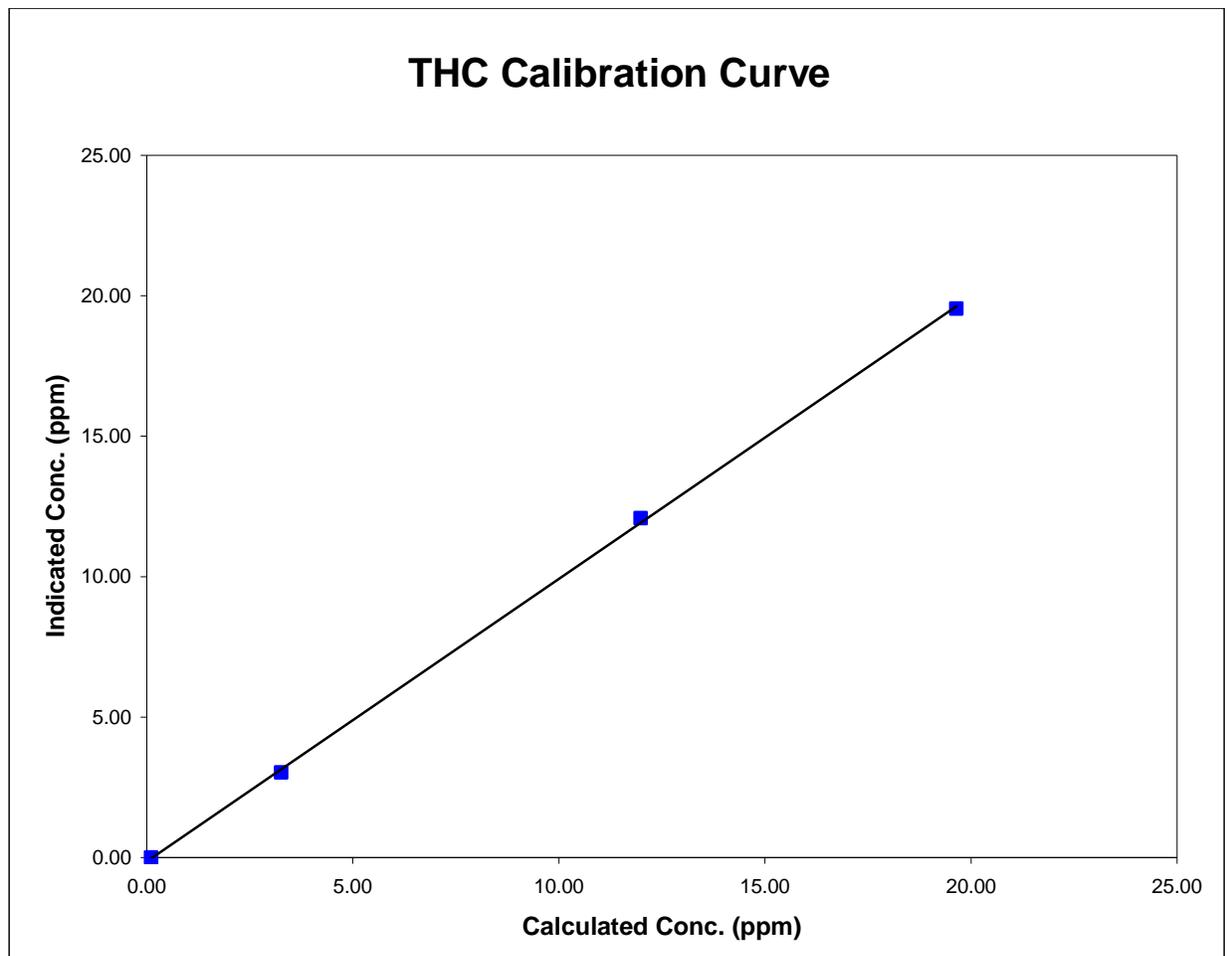
Air Monitoring Network **PASZA**

### Station Information

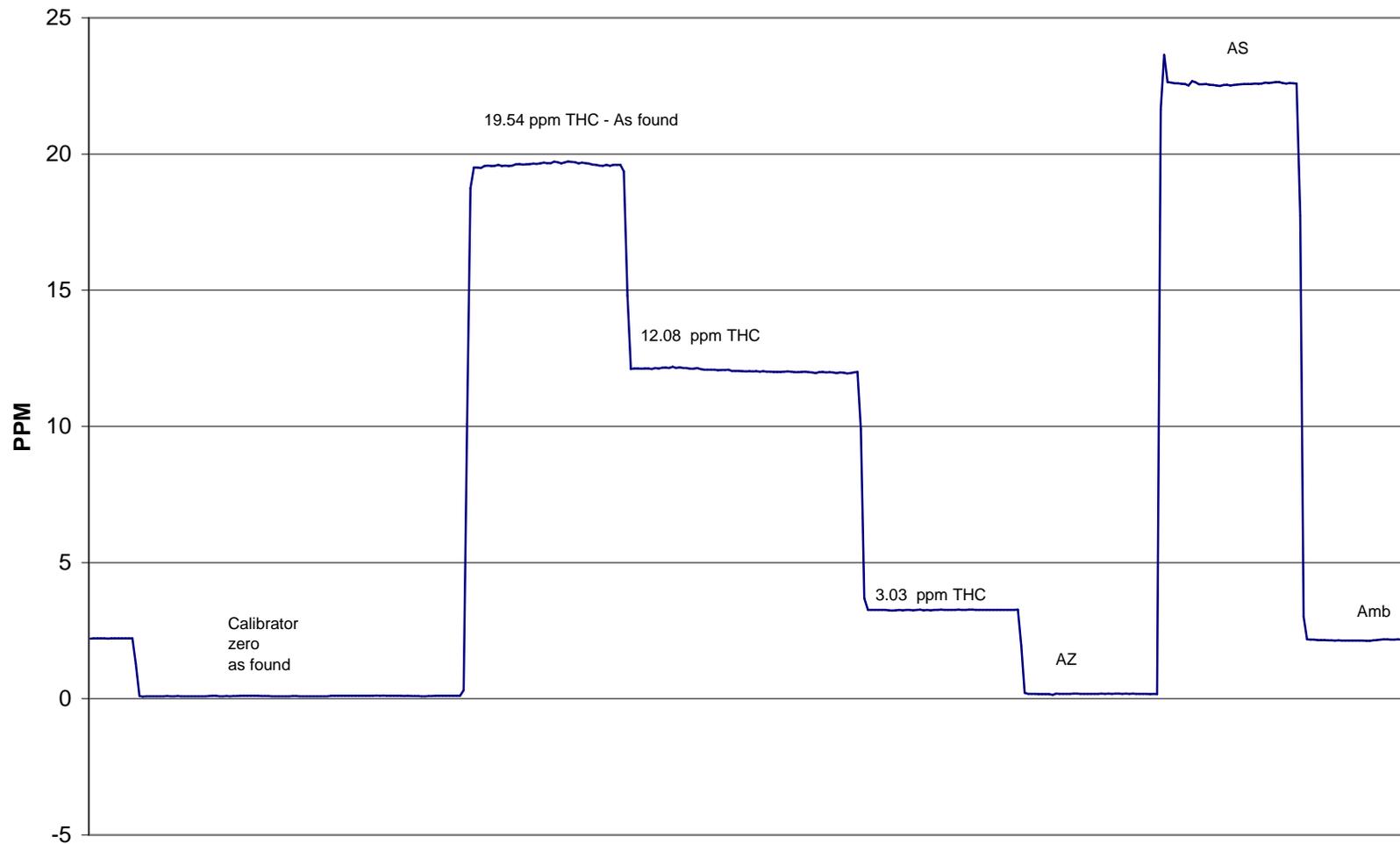
Calibration Date	May 10, 2007	Previous Calibration	April 10, 2007
Station Number	1	Station Location	Henry Pirker - Muskosepi Park
Start Time (MST)	9:00	End Time (MST)	11:57
Analyzer make/model	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

### Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.107	N/A		
19.542	19.646	0.9947	Correlation Coefficient	0.999798
12.084	11.988	1.0080		
3.027	3.262	0.9282	Slope	1.005894
			Intercept	-0.138932



### THC Calibration



May 10, 2007

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

Calibration Date	May 9, 2007	Previous Calibration	April 12, 2007
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:

Start Time (MST)	9:36	End Time (MST)	
Barometric Pressure	27.4 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	235 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.932763	Perm-tube Cert #	T-25214
DACS make	Focus AP1000	DACS serial No.	45266
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
Calculated slope	1.006776	Calculated slope	1.002633
Calculated intercept	0.502812	Calculated intercept	0.072342

Analyzer make	TEI Model 43C	Analyzer serial #	31990000000491
---------------	---------------	-------------------	----------------

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	31.9	ppb	31.9	ppb
coefficient	1.29		1.29	
Lamp Voltage	920	volts	920	volts
Chamber Temp	44.8	Deg C	44.8	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	666.5	mm Hg	666.5	mm Hg
Sample Flow	600	ccm	600	ccm
Lamp Intensity	39,100	mv	39,100	mv

**Calibration Data**

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	2425.2	0.0	0.4	N/A
2600	2425.2	69.7	69.7	0.9997
5010	4673.1	36.2	35.7	1.0137
9195	8576.8	19.7	19.2	1.0287
zero	2425.2	0.0	0.4	As Found Zero
2600	2425.2	69.7	69.7	As Found Span
Average Correction Factor				1.0140

Calculated value of As Found Response: 70.27 ppm      Percent Change of As Found: -0.9%

	before calibration		after calibration	
Auto zero	0.5	ppm	NA	ppm
Auto span	69.8	ppm	NA	ppm

Notes: Shutdown calibration.Calibration Performed By: Dawn Ewan

## Calibration Summary

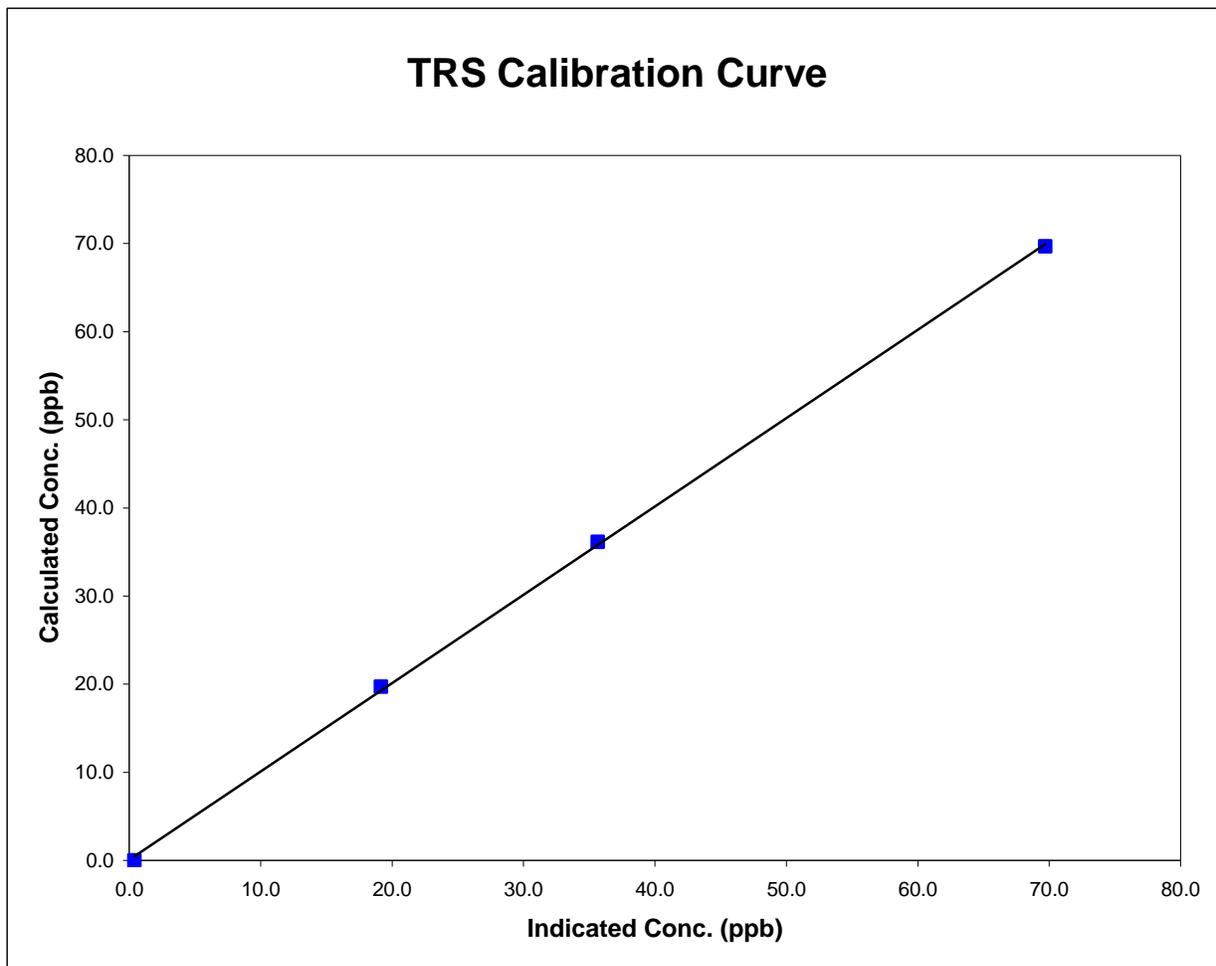
Parameter **TRS**Air Monitoring Network **PASZA**

### Station Information

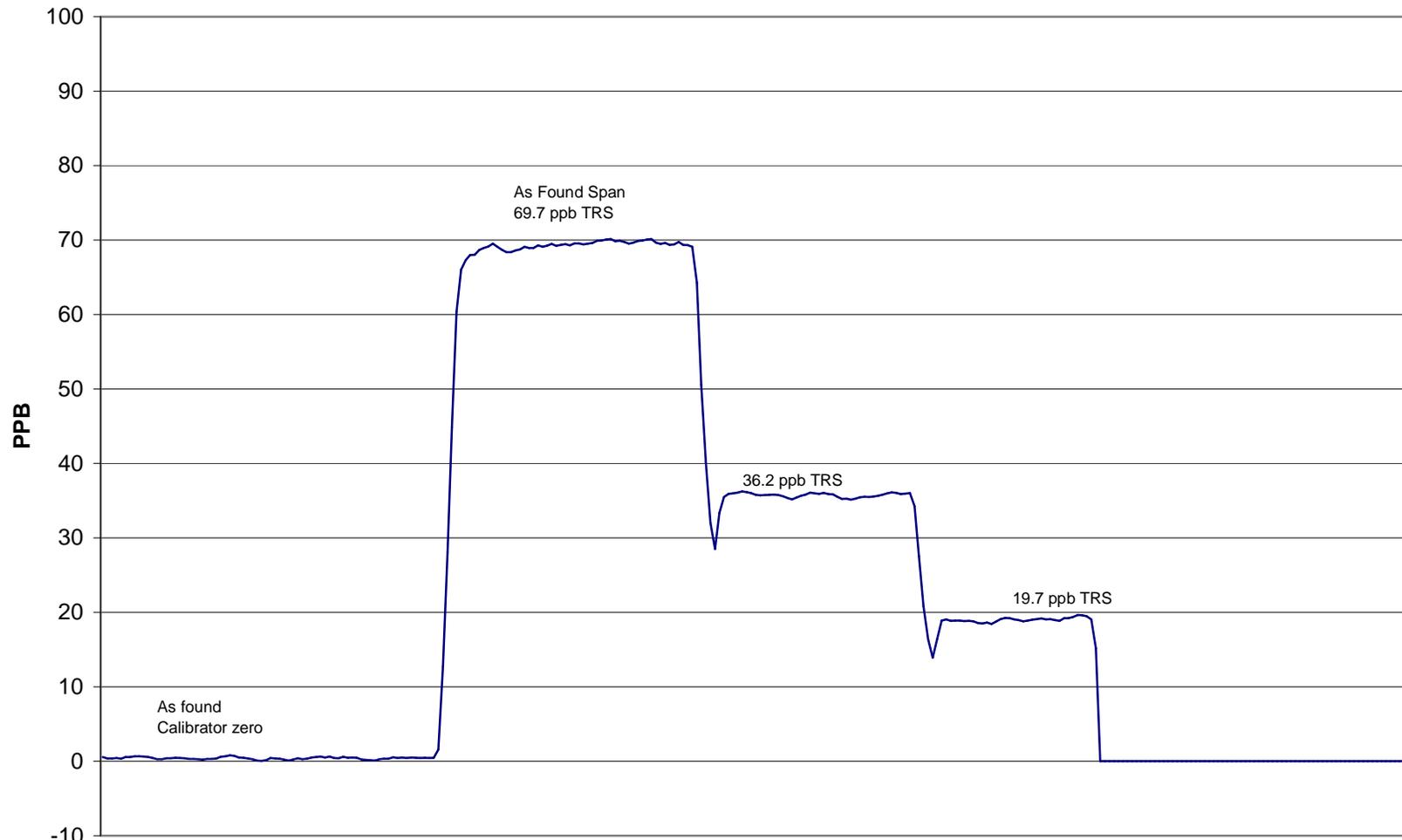
Calibration Date	May 9, 2007	Previous Calibration	April 12, 2007
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	9:36	End Time (MST)	0:00
Analyzer make/model	TEI Model 43C	Analyzer serial #	31990000000491

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.4	N/A		
69.7	69.7	0.9997	Correlation Coefficient	0.999775
36.2	35.7	1.0137		
19.7	19.2	1.0287	Slope	1.002633
			Intercept	0.072342



### TRS Calibration



May 9, 2007

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

Calibration Date	May 10, 2007	Previous Calibration	April 12, 2007
Station Number	1	Station Location	Henry Pirker - Muskoseepi Park
Reason:	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:

Start Time (MST)	10:15	End Time (MST)	13:58
Barometric Pressure	27.7 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	235 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.940921	Perm-tube Cert #	T-25214
DACS make	Focus AP1000	DACS serial No.	45266
DACS voltage range	0 - 10 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>

Calculated slope		Calculated slope	0.977662
Calculated intercept		Calculated intercept	0.593382

Analyzer make	TEI Model 45C	Analyzer serial #	
---------------	---------------	-------------------	--

	before		after	
Concentration range		ppb	0 - 100	ppb
Background		ppb	19.8	ppb
coefficient			1.104	
Lamp Voltage		volts	877	volts
Chamber Temp		Deg C	44.3	Deg C
Perm Gas Temp		Deg C		Deg C
Pressure		mm Hg	658.7	mm Hg
Sample Flow		ccm	463	ccm
Lamp Intensity		mv	39,000	mv

**Calibration Data**

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	2437.0	0.0	-0.1	N/A
2590	2437.0	69.3	70.5	0.9837
5075	4775.2	35.4	35.6	0.9926
9160	8618.8	19.6	18.7	1.0497
zero	2413.5	0.0	-1.6	As Found Zero
2565	2413.5	70.0	61.8	As Found Span
Average Correction Factor				1.0087

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

	before calibration		after calibration	
Auto zero	0.5	ppm	0.3	ppm
Auto span	69.8	ppm	53.3	ppm

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

Calibration Performed By: Dawn Ewan

# Calibration Summary



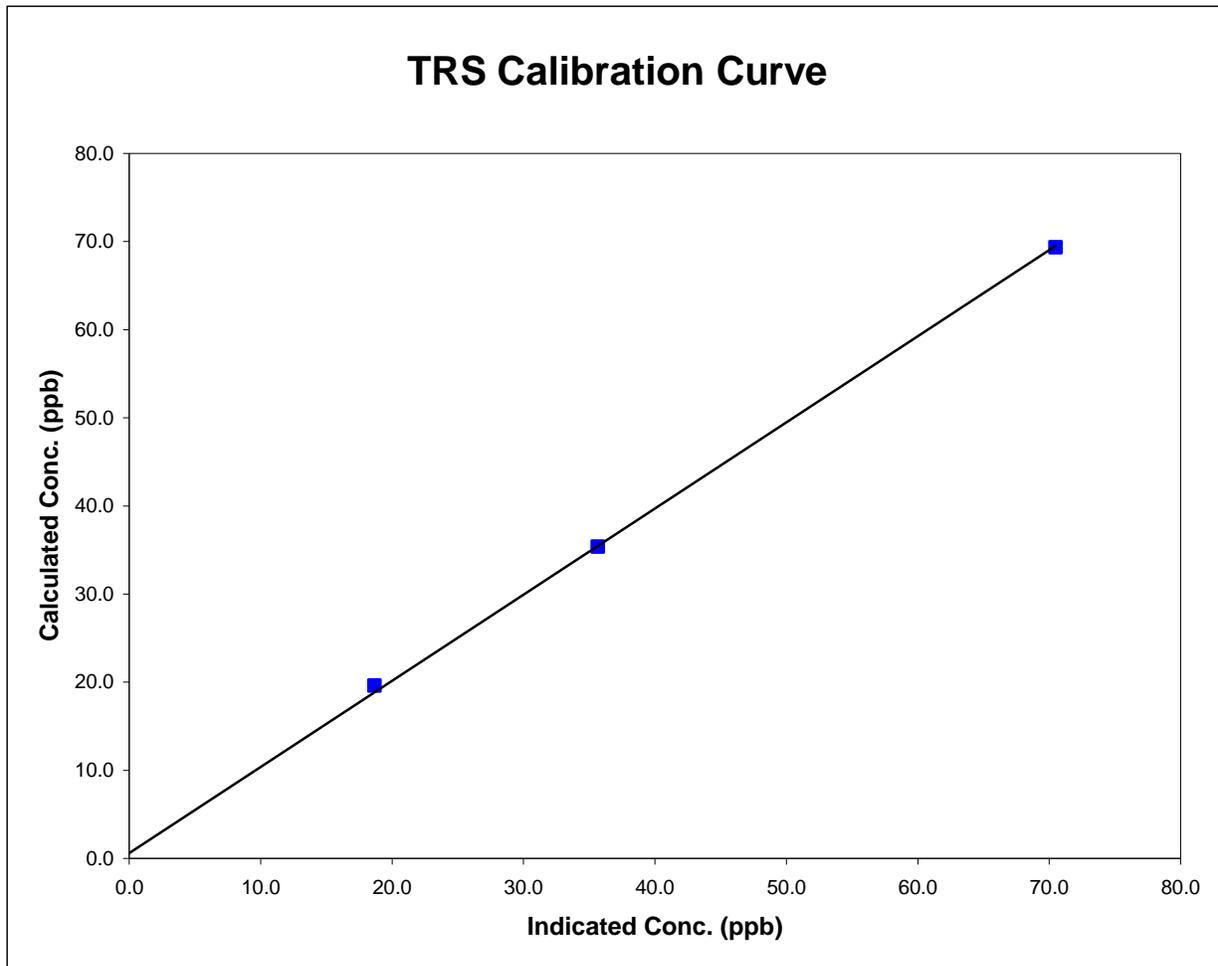
Parameter **TRS**  
 Air Monitoring Network **PASZA**

### Station Information

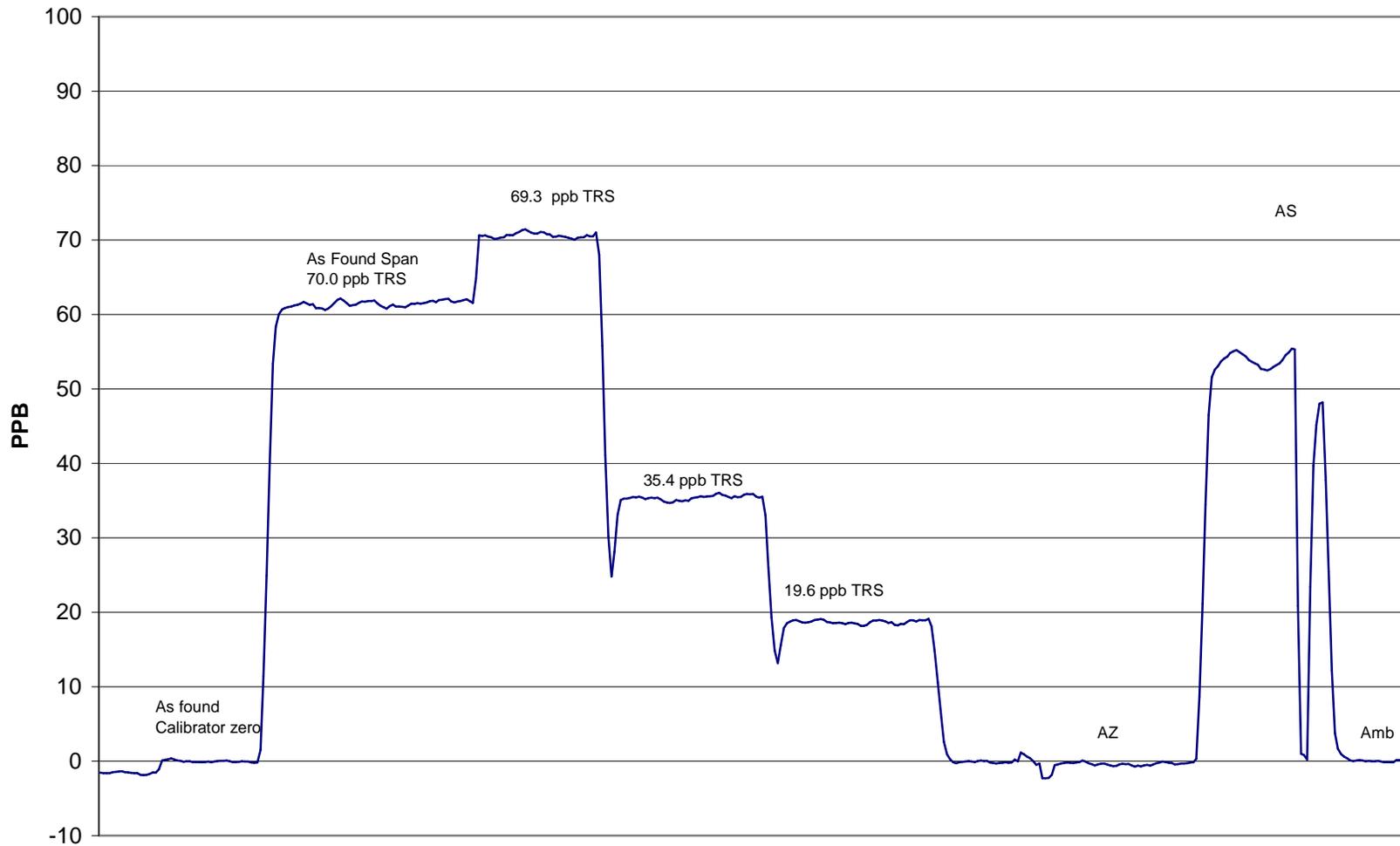
Calibration Date	May 10, 2007	Previous Calibration	April 12, 2007
Station Number	1	Station Location	Henry Pirker - Muskosepi Park
Start Time (MST)	10:15	End Time (MST)	13:58
Analyzer make/model	TEI Model 45C	Analyzer serial #	0

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A		
69.3	70.5	0.9837	Correlation Coefficient	0.999663
35.4	35.6	0.9926		
19.6	18.7	1.0497	Slope	0.977662
			Intercept	0.593382



### TRS Calibration



May 10, 2007

# Calibration Report

Parameter

SO<sub>2</sub>

Air Monitoring Network

PASZA



## Station Information

Calibration Date	May 3, 2007	Previous Calibration	April 16, 2007
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:35	End Time (MST)	15:23
Barometric Pressure	27.2 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	1,946 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.924604	Perm-tube Cert #	19-25218
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	6
	Before		After
Calculated slope	0.989055	Calculated slope	1.001517
Calculated intercept	1.422007	Calculated intercept	0.319290
Analyzer make	Teco 43i	Analyzer serial #	701120008

	before		after	
Concentration range	1000	ppb	1000	ppb
Background	8.1		8.1	
coefficient	0.898		0.894	
Lamp Voltage	843	volts	843	volts
Chamber Temp	45.2	Deg C	45.1	Deg C
Perm Gas Temp	44.99	Deg C	45.01	Deg C
Pressure	664.7	mm Hg	663.5	mm Hg
Sample Flow	447	ccm	443	ccm
Lamp Intensity	89	%	89	%

## 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	2496.4	0.0	0.4	N/A
2700	2496.4	297.5	297.1	1.0016
5160	4771.0	155.7	155.2	1.0032
8930	8256.7	90.0	88.4	1.0177
zero	2635.1	0.0	0.5	As Found Zero
2850	2635.1	281.9	262.4	As Found Span
Average Correction Factor				1.0075

Calculated value of As Found Response: 260.438 ppm

Percent Change of As Found: 7.6%

	before calibration		after calibration	
Auto zero	1.9	ppm	0.7	ppm
Auto span	272.8	ppm	275.8	ppm

Notes: Adjusted span and zero.

Calibration Performed By: Dawn Ewan

# Calibration Summary

Parameter **SO2**

Air Monitoring Network **PASZA**

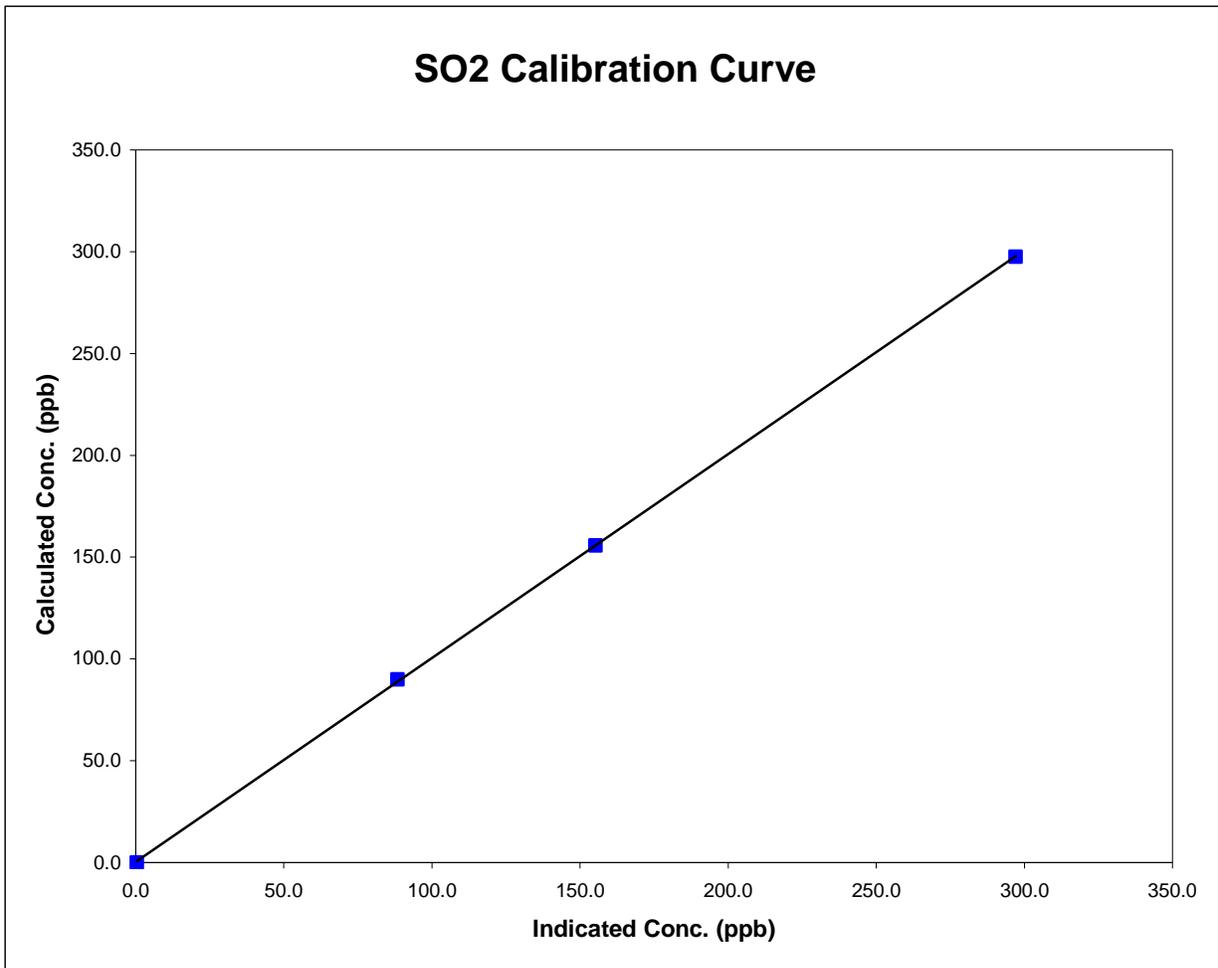


### Station Information

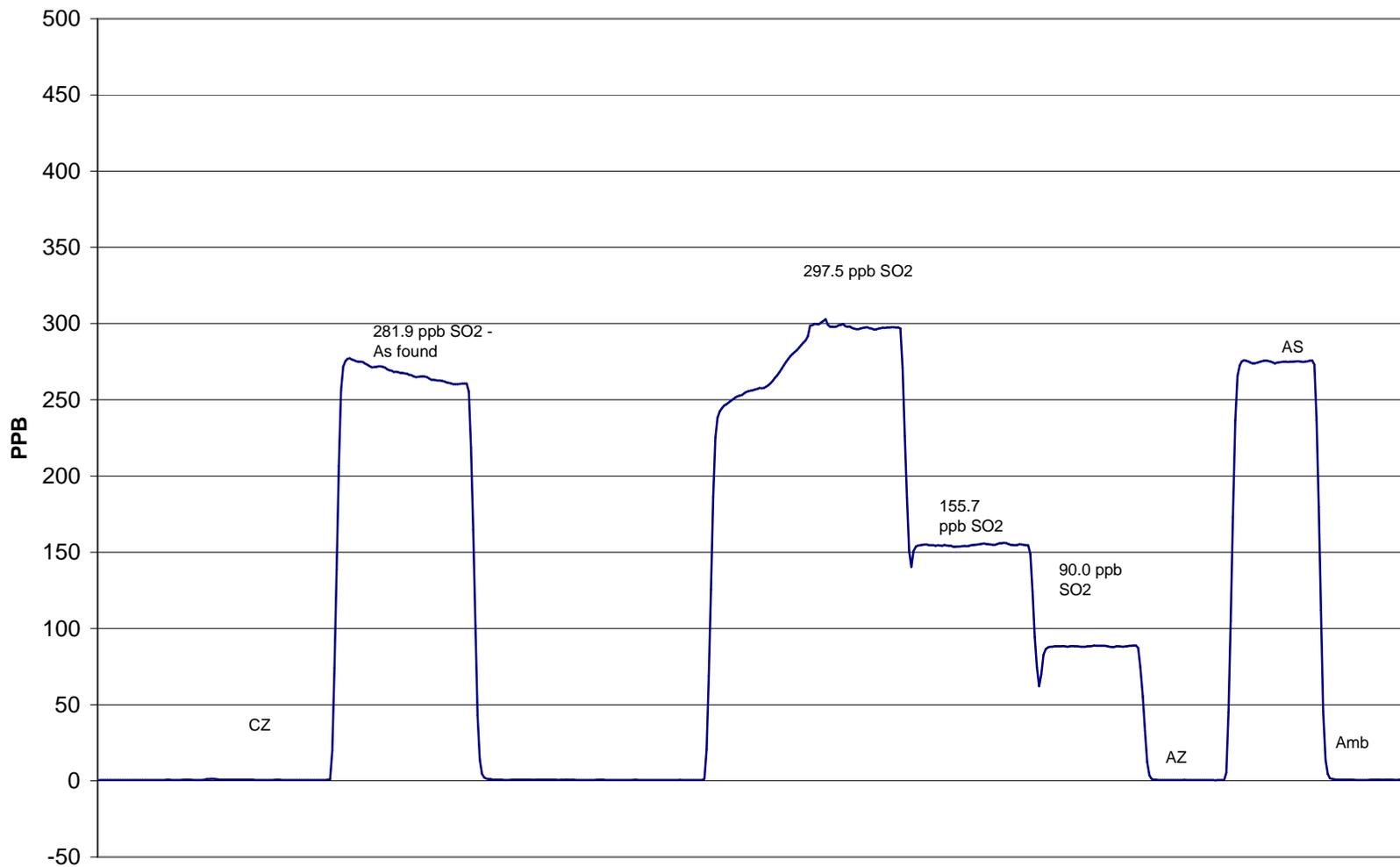
Calibration Date	May 3, 2007	Previous Calibration	April 16, 2007
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	11:35	End Time (MST)	15:23
Analyzer make/model	Teco 43i	Analyzer serial #	701120008

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.4	N/A		
297.5	297.1	1.0016	Correlation Coefficient	0.999960
155.7	155.2	1.0032		
90.0	88.4	1.0177		
			Slope	1.001517
			Intercept	0.319290



### SO2 Calibration



May 3, 2007

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

Calibration Date	May 3, 2007	Previous Calibration	April 16, 2007
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:35	End Time (MST)	15:23
Barometric Pressure	27.20 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	235 ng/min	Perm-tube Expiry Date	8/8/2006
Correction factor	0.924604	Perm-tube Cert #	T-25214
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	0.949574	Calculated slope	0.996048
Calculated intercept	0.363911	Calculated intercept	0.288408
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	100	ppb	100	ppb
Background	19.1	ppb	19.7	ppb
coefficient	1.179		1.211	
Lamp Voltage	798	volts	794	volts
Chamber Temp	44.3	Deg C	44.1	Deg C
Perm Gas Temp	45.01	Deg C	44.99	Deg C
Pressure	634	mm Hg	633.4	mm Hg
Sample Flow	467	ccm	468	ccm
Lamp Intensity	45,500	mv	45,500	mv

**Calibration Data**

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	2496.4	0.0	-0.1	N/A
2700	2496.4	67.7	67.9	0.9975
5160	4771.0	35.4	35.0	1.0130
8930	8256.7	20.5	20.1	1.0160
zero	2635.1	0.0	0.0	As Found Zero
2850	2635.1	64.1	57.6	As Found Span
Average Correction Factor				1.0088

Calculated value of As Found Response: 55.01 ppm Percent Change of As Found: 14.2%

	before calibration		after calibration	
Auto zero	0.4	ppm	0.2	ppm
Auto span	86.4	ppm	91.4	ppm

Notes: Adjusted span and zero.Replaced pump.Replaced span flow capillary.Calibration Performed By: Dawn Ewan

# Calibration Summary



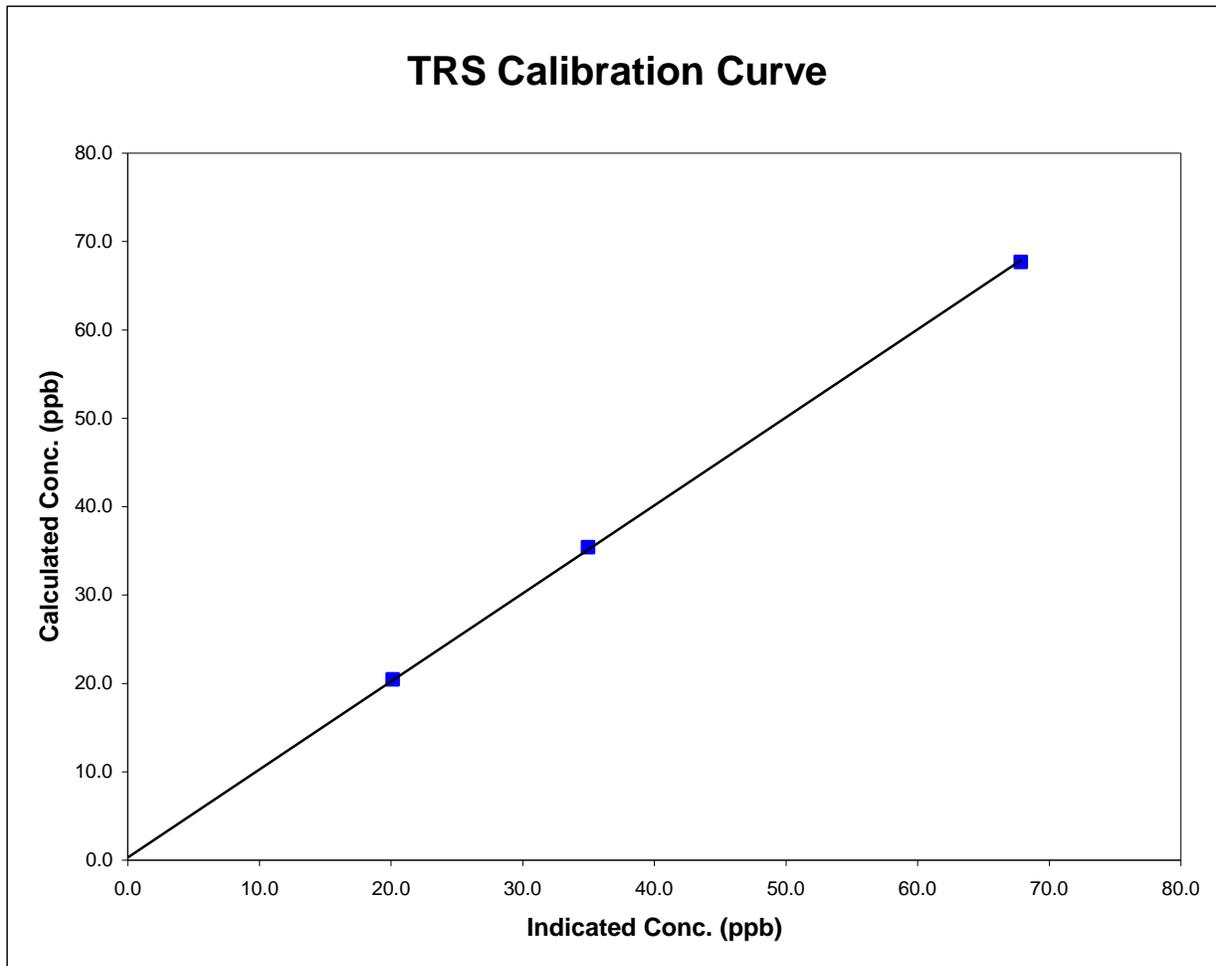
Parameter **TRS**  
 Air Monitoring Network **PASZA**

### Station Information

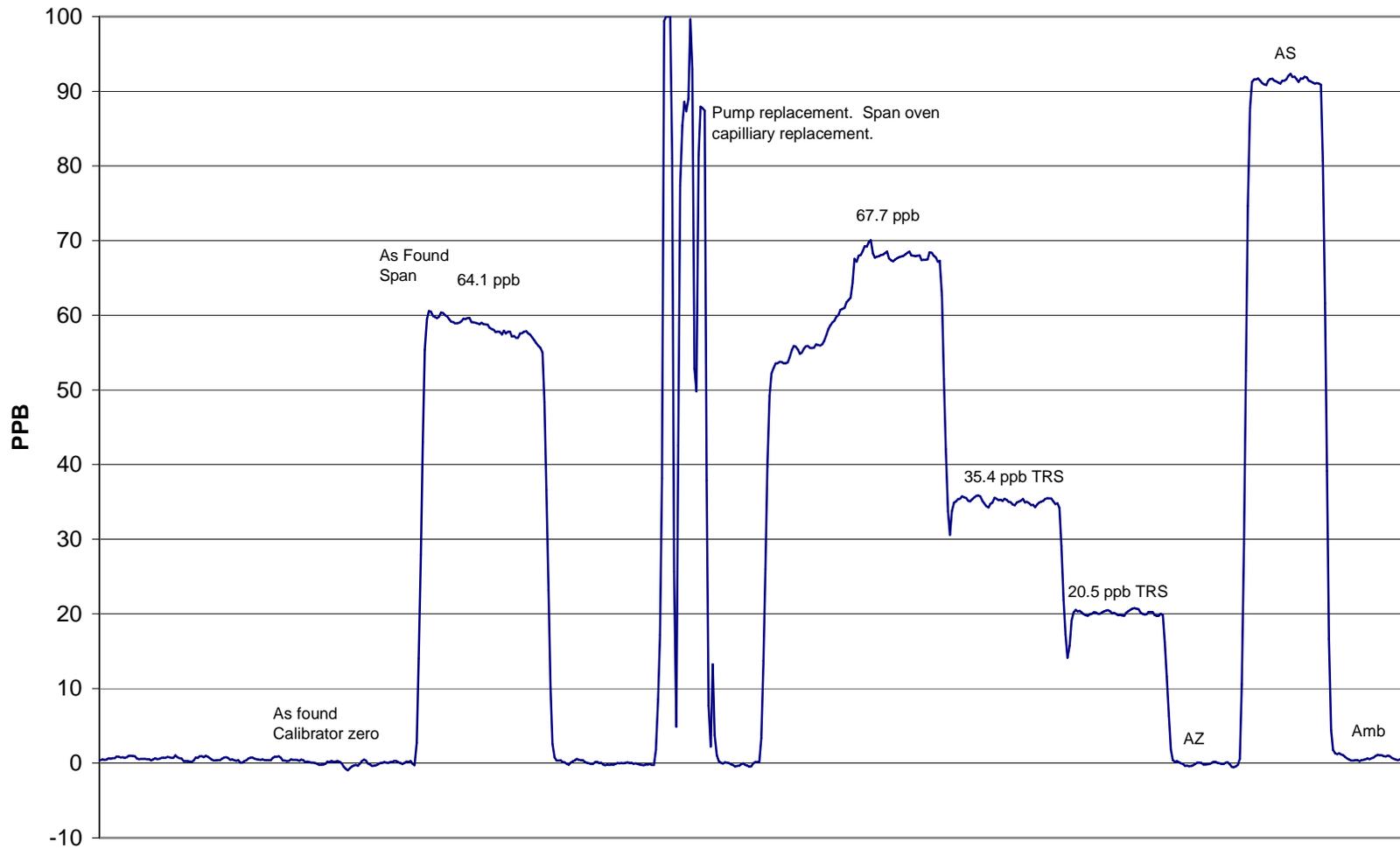
Calibration Date	May 3, 2007	Previous Calibration	April 16, 2007
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	11:35	End Time (MST)	15:23
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A		
67.7	67.9	0.9975	Correlation Coefficient	0.999921
35.4	35.0	1.0130		
20.5	20.1	1.0160	Slope	0.996048
			Intercept	0.288408



### TRS Calibration



May 3, 2007

# Calibration Report



Parameter

**SO<sub>2</sub>**

Air Monitoring Network

**PASZA**

## Station Information

Calibration Date	May 31, 2007	Previous Calibration	April 26, 2007
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)	11:07	End Time (MST)	15:00
Barometric Pressure	27.60 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	1,946 ng/min	Perm-tube Expiry Date	8/6/2006
Correction factor	0.938202	Perm-tube Cert #	19-25218
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	<u>Before</u>		<u>After</u>
Calculated slope	0.998545	Calculated slope	0.895210
Calculated intercept	0.100167	Calculated intercept	5.138695
Analyzer make	Teco 43i	Analyzer serial #	70112009

	before		after	
Concentration range	500	ppb	500	ppb
Background	5.1		5.1	
coefficient	0.813		0.813	
Lamp Voltage	868	V	868	V
Chamber Temp	45	Deg C	45	Deg C
Perm Gas Temp	44.99	Deg C	44.99	Deg C
Pressure	668.1	"Hg	668.1	"Hg
Sample Flow	444	cc/min	444	cc/min
Lamp Intesity	90	%	90	%

## Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	2420.6	0.0	0.1	N/A
2580	2420.6	306.9	340.6	0.9011
5100	4784.8	155.2	162.7	0.9540
8980	8425.0	88.2	88.3	0.9986
zero	2420.6	0.0	0.1	As Found Zero
2580	2420.6	306.9	340.6	As Found Span
Average Correction Factor				0.9512

Calculated value of As Found Response: 340.021 ppm      Percent Change of As Found: -10.8%

	before calibration		after calibration	
Auto zero	0.0	ppm	5.2	ppm
Auto span	306.6	ppm	279.9	ppm

Notes: No adjustments made.

Calibration Performed By: Dawn Ewan

## Calibration Summary

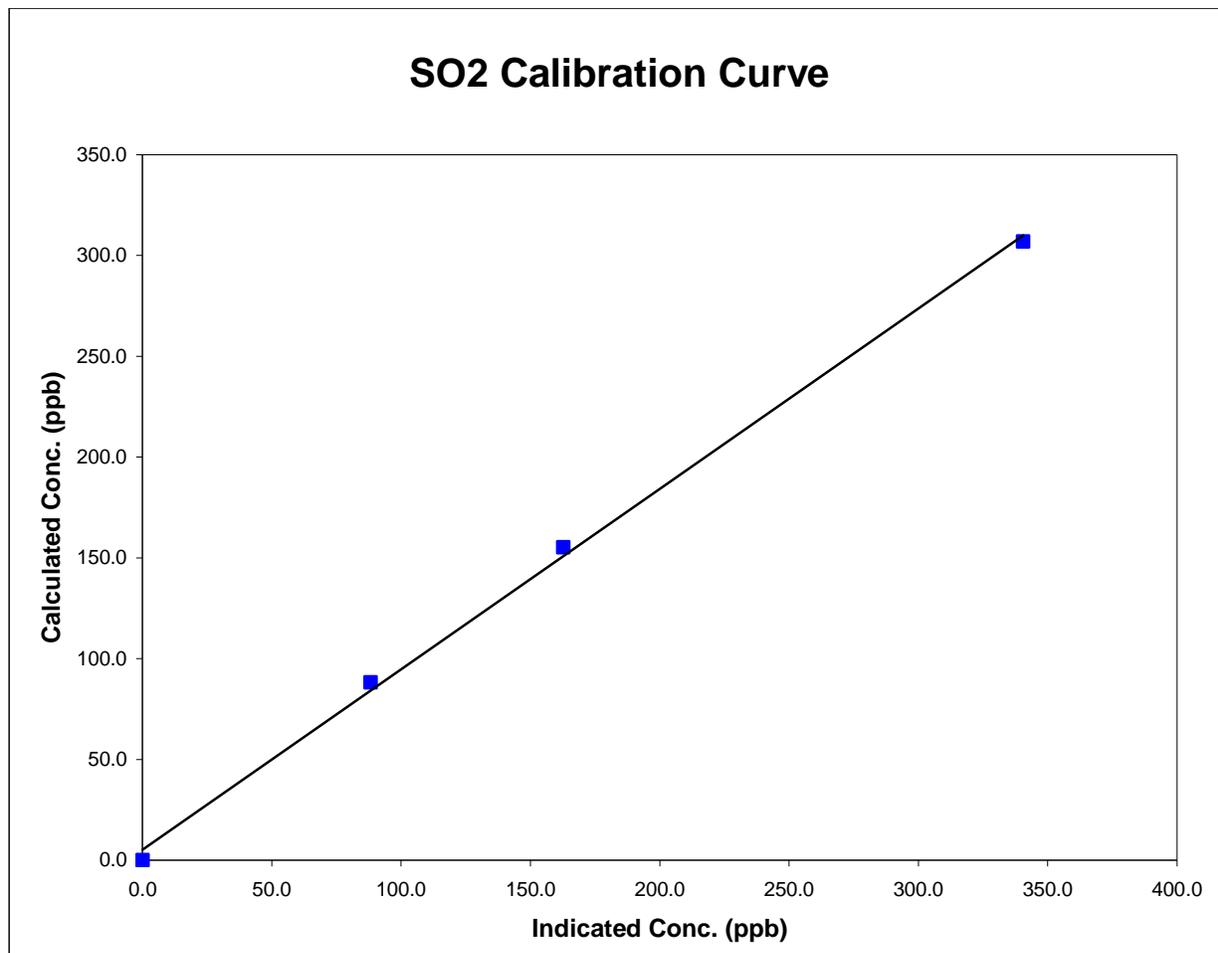
Parameter **SO2**Air Monitoring Network **PASZA**

### Station Information

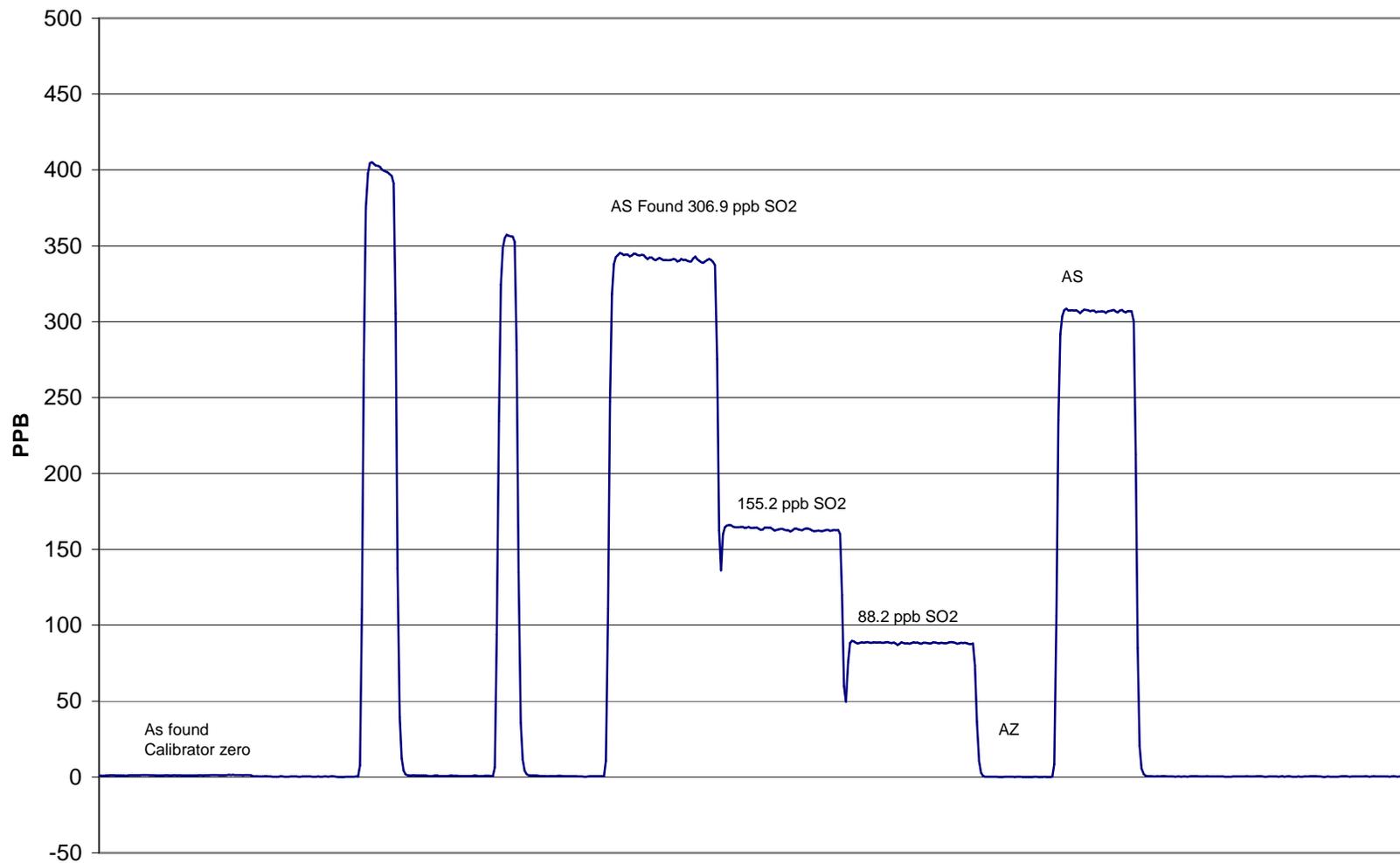
Calibration Date	May 31, 2007	Previous Calibration	April 26, 2007
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	11:07	End Time (MST)	15:00
Analyzer make/model	Teco 43i	Analyzer serial #	70112009

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	N/A		
306.9	340.6	0.9011	Correlation Coefficient	0.998547
155.2	162.7	0.9540		
88.2	88.3	0.9986	Slope	0.895210
			Intercept	5.138695



### SO2 Calibration



May 31, 2007

# Calibration Report

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

## Station Information

Calibration Date	May 31, 2007	Previous Calibration	April 26, 2007
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	11:07	End Time (MST)	15:00
Barometric Pressure	27.60 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	235 ng/min	Perm-tube Date	8/6/2006
Correction factor	0.938202	Perm-tube Cert #	T-25214
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
Calculated slope	1.000256	Calculated slope	0.957832
Calculated intercept	-1.041075	Calculated intercept	0.663842
Analyzer make	TEI Model 43C	Analyzer serial #	436610004

	before		after	
Concentration range	100	ppb	100	ppb
Background	15.1	ppb	15.1	ppb
coefficient	1.343		1.343	
Lamp Voltage	774	volts	774	volts
Chamber Temp	44.1	Deg C	44.1	Deg C
Perm Gas Temp	45.02	Deg C	45.02	Deg C
Pressure	492.7	mm Hg	492.7	mm Hg
Sample Flow	777	ccm	777	ccm
Lamp Intesity	32,400	mv	32,400	mv

## Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	2420.6	0.0	0.3	N/A
2580	2420.6	69.8	72.8	0.9590
5100	4784.8	35.3	35.4	0.9983
8980	8425.0	20.1	19.4	1.0331
zero	2420.6	0.0	0.3	As Found Zero
2580	2420.6	69.8	72.8	As Found Span
Average Correction Factor				0.9968

Calculated value of As Found Response: 71.43 ppm      Percent Change of As Found: -2.3%

	before calibration		after calibration	
Auto zero	-1.1	ppm	1.0	ppm
Auto span	58.1	ppm	57.1	ppm

Notes: No adjustments made.

Calibration Performed By: Dawn Ewan

## Calibration Summary

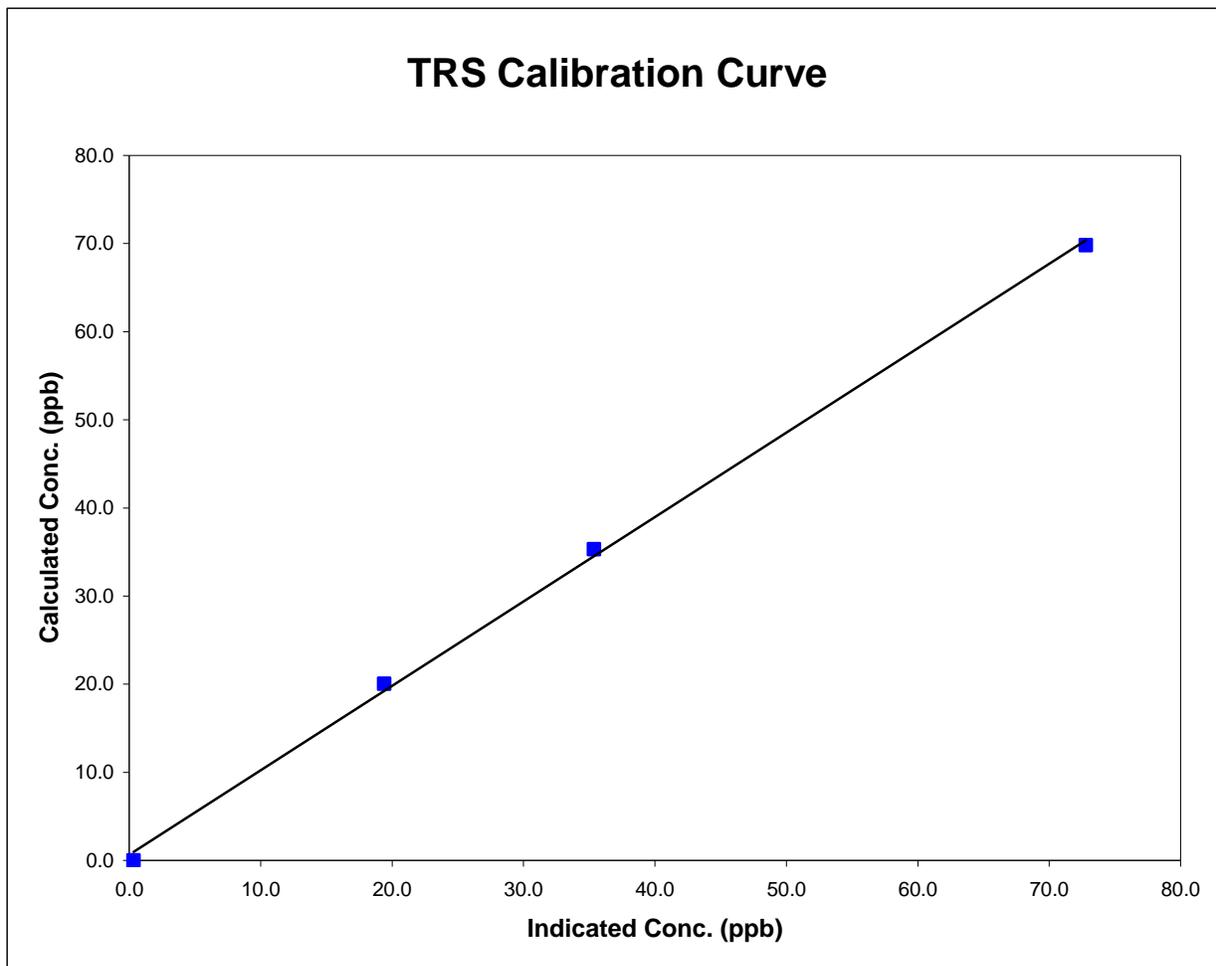
Parameter **TRS**Air Monitoring Network **PASZA**

### Station Information

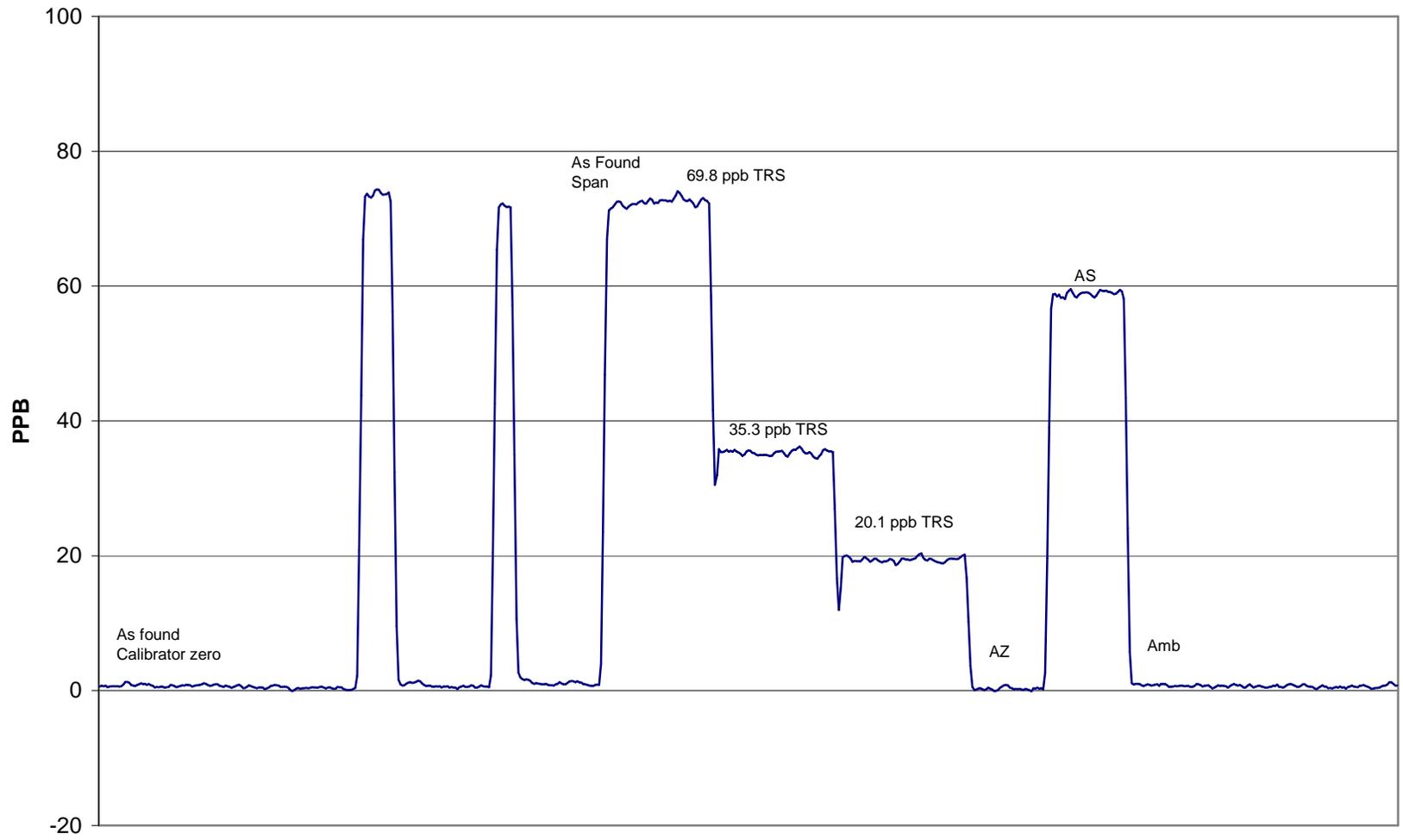
Calibration Date	May 31, 2007	Previous Calibration	April 26, 2007
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	11:07	End Time (MST)	15:00
Analyzer make/model	TEI Model 43C	Analyzer serial #	436610004

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	N/A		
69.8	72.8	0.9590	Correlation Coefficient	0.999029
35.3	35.4	0.9983		
20.1	19.4	1.0331	Slope	0.957832
			Intercept	0.663842



### TRS Calibration



May 31, 2007

# Calibration Report

Parameter

SO<sub>2</sub>

Air Monitoring Network

PASZA



## Station Information

Calibration Date	May 29, 2007	Previous Calibration	April 17, 2007
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:00	End Time (MST)	12:00
Barometric Pressure	0.902 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2844
Cal Gas Make	Scott	Cal Gas Expiry Date	July 2 2007
Cal Gas Conc.	10.07 ppm	Cal Gas Cylinder #	CC-114395
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	1.028960	Calculated slope	1.005983
Calculated intercept	-0.200071	Calculated intercept	-0.195603

Analyzer make: TEI Model 43CTL      Analyzer serial #: 43CTL-74200-376

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	2.37	ppb	2.31	ppb
Coefficient	0.918		0.9	
Lamp Voltage	904.0	Volts	899.0	Volts
Chamber Temp	44.1	Deg C	44.2	Deg C
Sample Flow	574	ccm	587	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)
4996	0.00	0.00	0.04	N/A
4996	39.94	79.87	79.53	1.0042
4996	19.97	40.09	40.05	1.0010
4996	9.95	20.02	20.30	0.9860
4996	0.00	0.00	-0.03	As Found Zero
4996	39.94	79.87	79.52	As Found Span
Average Correction Factor				0.9971

Calculated value of As Found Response: 81.657 ppm      Percent Change of As Found: -2.2%

	before calibration		after calibration	
Auto zero	-0.25	ppm	-0.23	ppm
Auto span	32.06	ppm	31.35	ppm

Notes:

Calibration Performed By: Dawn Ewan

# Calibration Summary

Parameter **SO2**

Air Monitoring Network **PASZA**

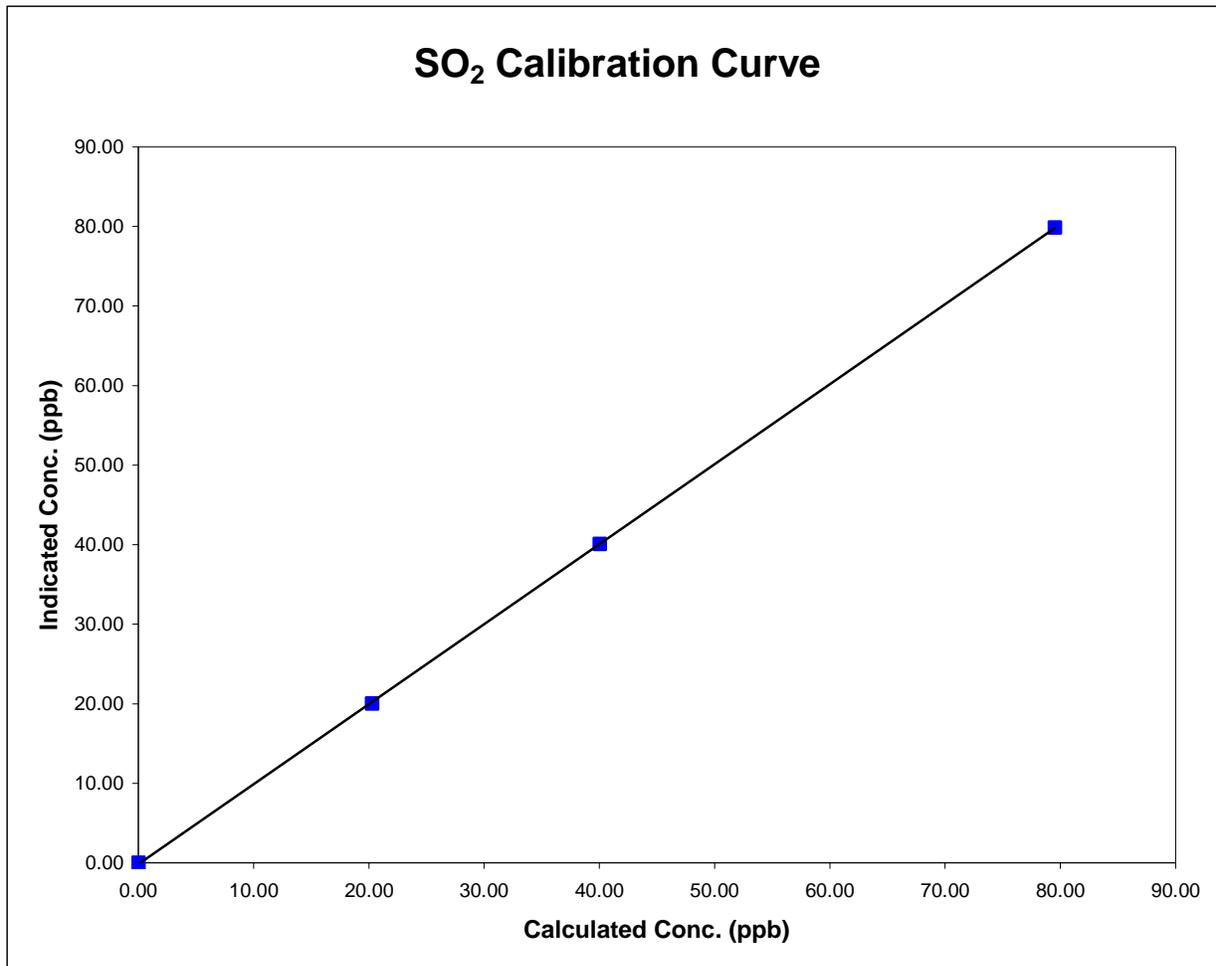


### Station Information

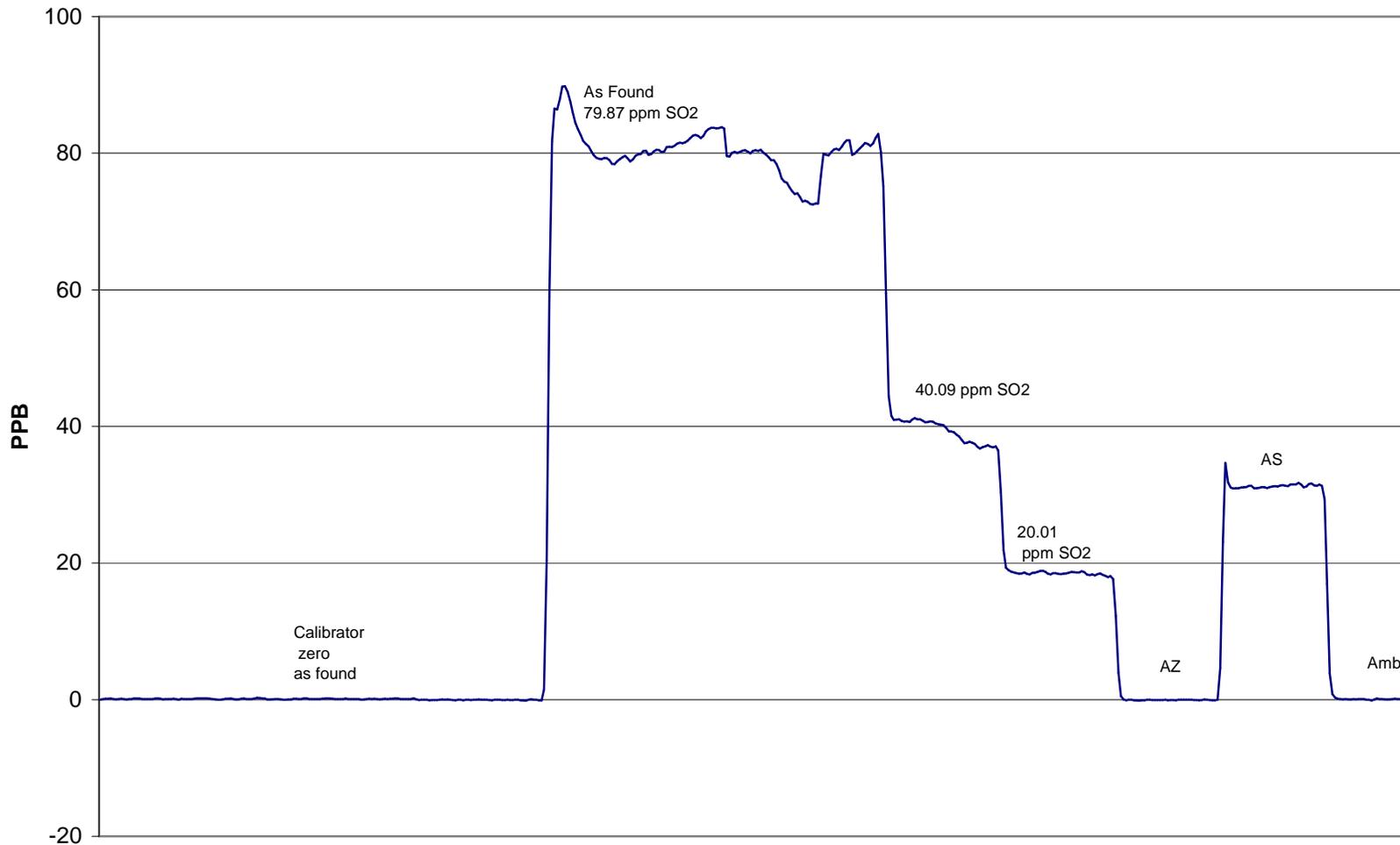
Calibration Date	May 29, 2007	Previous Calibration	April 17, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	9:00	End Time (MST)	12:00
Analyzer make/model	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

### Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.037	N/A		
79.865	79.530	1.0042	Correlation Coefficient	0.999979
40.092	40.050	1.0010		
20.015	20.300	0.9860	Slope	1.005983
			Intercept	-0.195603



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



May 29, 2007

# Calibration Report

Parameter

NOx-NO-NO<sub>2</sub>

Air Monitoring Network

PASZA



## Station Information

Calibration Date	May 4, 2007	Previous Calibration	April 17, 2007
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Installation	<input type="checkbox"/> Removal
Other:			
Start Time (MST)	11:29	End Time (MST)	15:17
Barometric Pressure	0.908 Atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2488
NO Cal Gas Conc	50.1 ppm	Cal Gas Expiry Date	July 2 2007
NOx Cal Gas Conc	50.2 ppm	Cal Gas Serial #	CC-114395

## DACS Information

DACS make FOCUS AP1000      DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	Data Slope	0.979838	0.993873	0.989778
	Data Offset	3.297804	0.942198	1.644047
After	Data Slope	0.971901	0.987932	0.985813
	Data Offset	2.777686	0.958316	1.655357
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	1.3	ppb	1.3	mV
NOx background	1.3	ppb	1.3	mV
NO coefficient	1.042		1.048	
NOx coefficient	0.987		1.007	
Box Temp	30.8	ccm	31.3	ccm
Chamber Temp	49.2	Deg C	49.2	Deg C
Cooler Temp	-2.1	Deg C	-2.1	Deg C
Converter Temp	323.0	Deg C	324.0	Deg C
Sample Flow	797.0	LPM	781.0	LPM
Ozonator Flow	0.084	LPM	0.098	LPM
Pressure	165.1	inches HG	165.8	inches Hg

Notes:

---



---



---

# Calibration Report

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



## Station Information

Calibration Date: **May 4, 2007** Station Location: **Beaverlodge**

### 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	4996	0.00	0.0	0.0	0.0	-0.3	-0.3	-0.3	N/A	N/A
1	4996	79.86	789.8	788.2	1.6	798.8	798.6	0.0	0.9887	0.9870
2	4996	39.98	398.5	397.7	0.8	402.1	400.9	0.4	0.9912	0.9921
3	4996	20.00	200.2	199.8	0.4	201.0	199.8	0.5	0.9958	1.0000
AFZ	4996	0.00	0.0	0.0	0.0	-0.3	-0.3	-0.3	0.0000	0.0000
AFS	4996	79.86	789.8	788.2	1.6	780.0	769.0	-6.0	1.0126	1.0250
Average Correction Factor									0.9919	0.9930

As Found Concentrations: NO<sub>x</sub>= 781.3 NO= 771.0 As Found Percent Change NO<sub>x</sub>= -1.1% NO= -2.2%

### GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

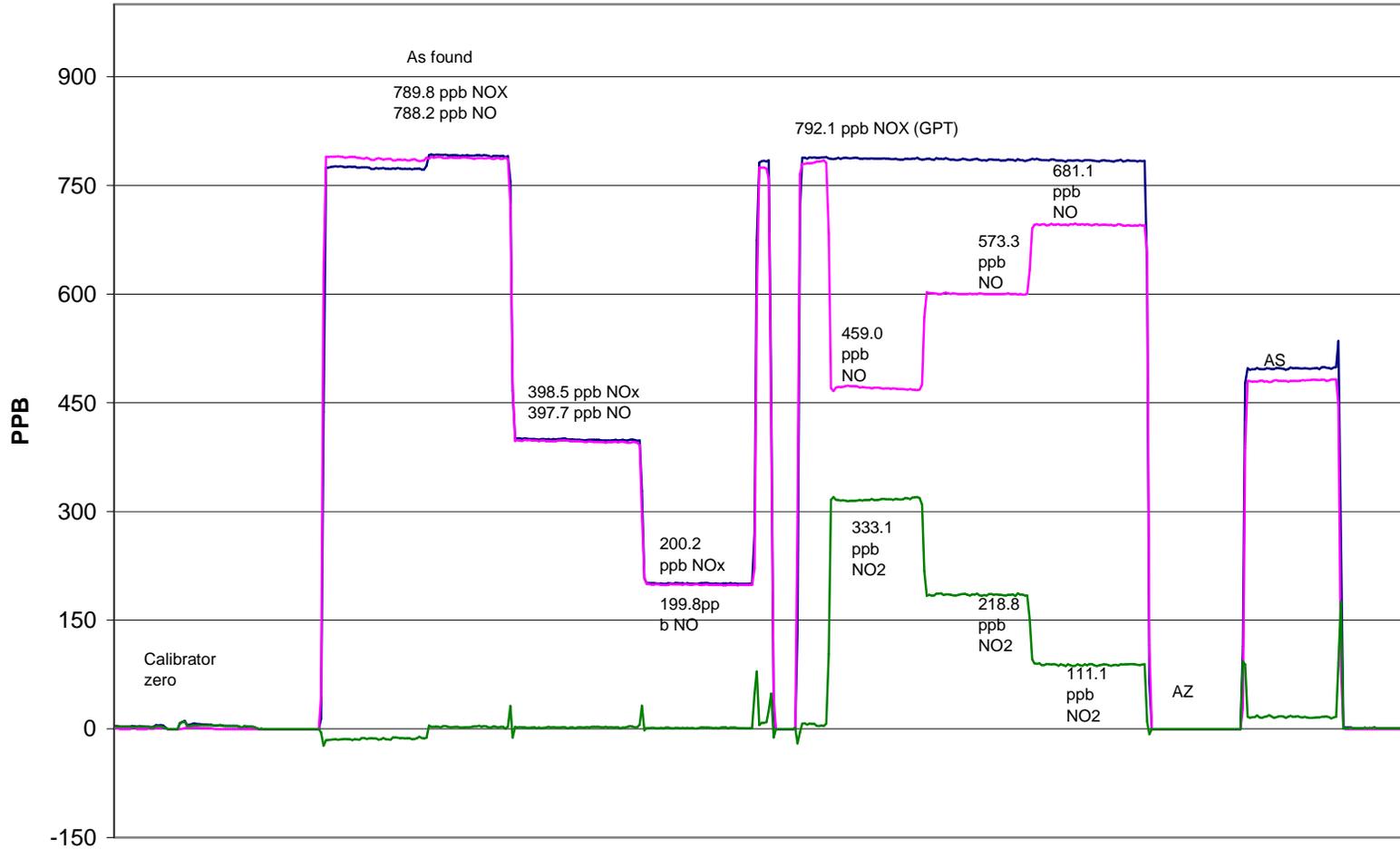
O <sub>3</sub> Setpoint (ppb)	Calculated NO <sub>x</sub> conc (ppb)	Calculated NO conc (ppb)	Calculated NO <sub>2</sub> conc (ppb)	Indicated NO <sub>x</sub> conc (ppb)	Indicated NO conc (ppb)	Indicated NO <sub>2</sub> conc (ppb)	NO <sub>x</sub> Correction factor	NO Correction factor	NO <sub>2</sub> Correction 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	792.1	790.3	1.8	800.0	800.0	0.9	0.9902	0.9879	N/A	N/A
350	792.1	459.0	333.1	802.8	463.9	340.7	0.9867	0.9894	0.9778	102.3%
200	792.1	573.3	218.8	802.8	579.9	223.0	0.9867	0.9887	0.9812	101.9%
100	792.1	681.1	111.1	797.0	689.2	107.4	0.9939	0.9882	1.0343	96.7%
Average Correction Factor							0.9891	0.9888	0.9978	100.3%

### 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	0.7	3.0	1.3	ppb	0.7	2.5	1.4	ppb
Auto span	491.0	8.9	501.0	ppb	491.0	8.9	501.0	ppb

Calibration Performed By: Dawn Ewan

### NOx Calibration



May 4, 2007

## Calibration Summary

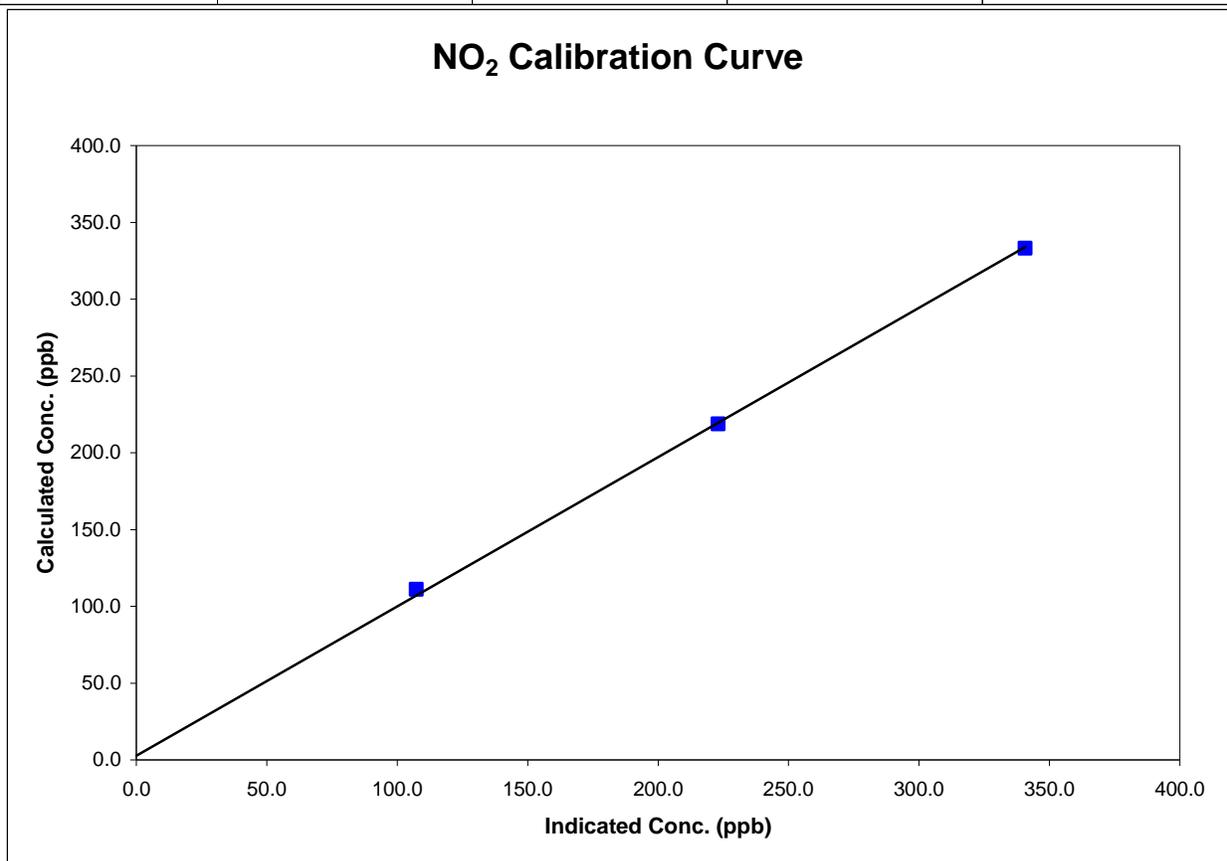
Parameter **NO<sub>2</sub>**Air Monitoring Network **PASZA**

### Station Information

Calibration Date	May 4, 2007	Previous Calibration	April 17, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	11:29	End Time (MST)	15:17
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		
333.1	340.7	0.9778	Correlation Coefficient	0.999633
218.8	223.0	0.9812		
111.1	107.4	1.0343	Slope	0.971901
			Intercept	2.777686



## Calibration Summary

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

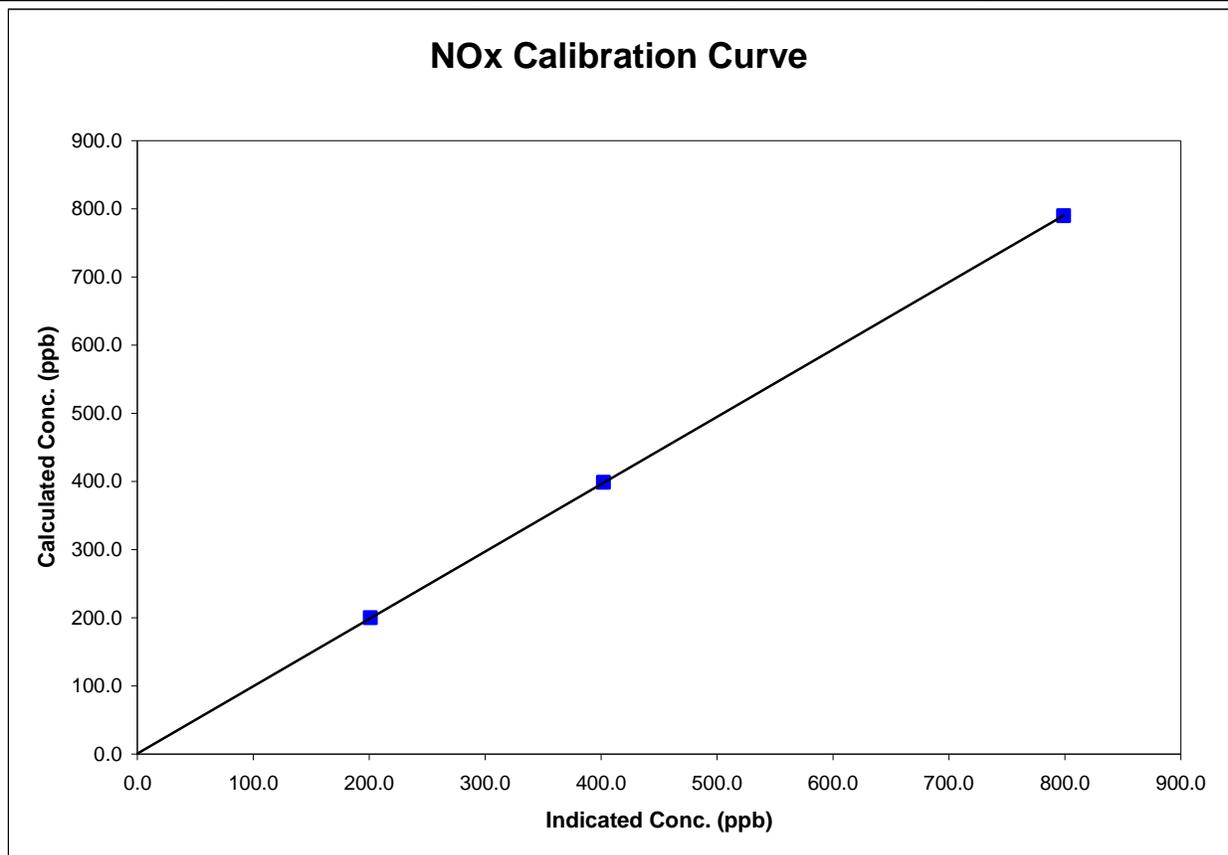


### Station Information

Calibration Date	May 4, 2007	Previous Calibration	April 17, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	11:29	End Time (MST)	15:17
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		
789.8	798.8	0.9887	Correlation Coefficient	0.999997
398.5	402.1	0.9912		
200.2	201.0	0.9958	Slope	0.987932
			Intercept	0.958316



## Calibration Summary

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

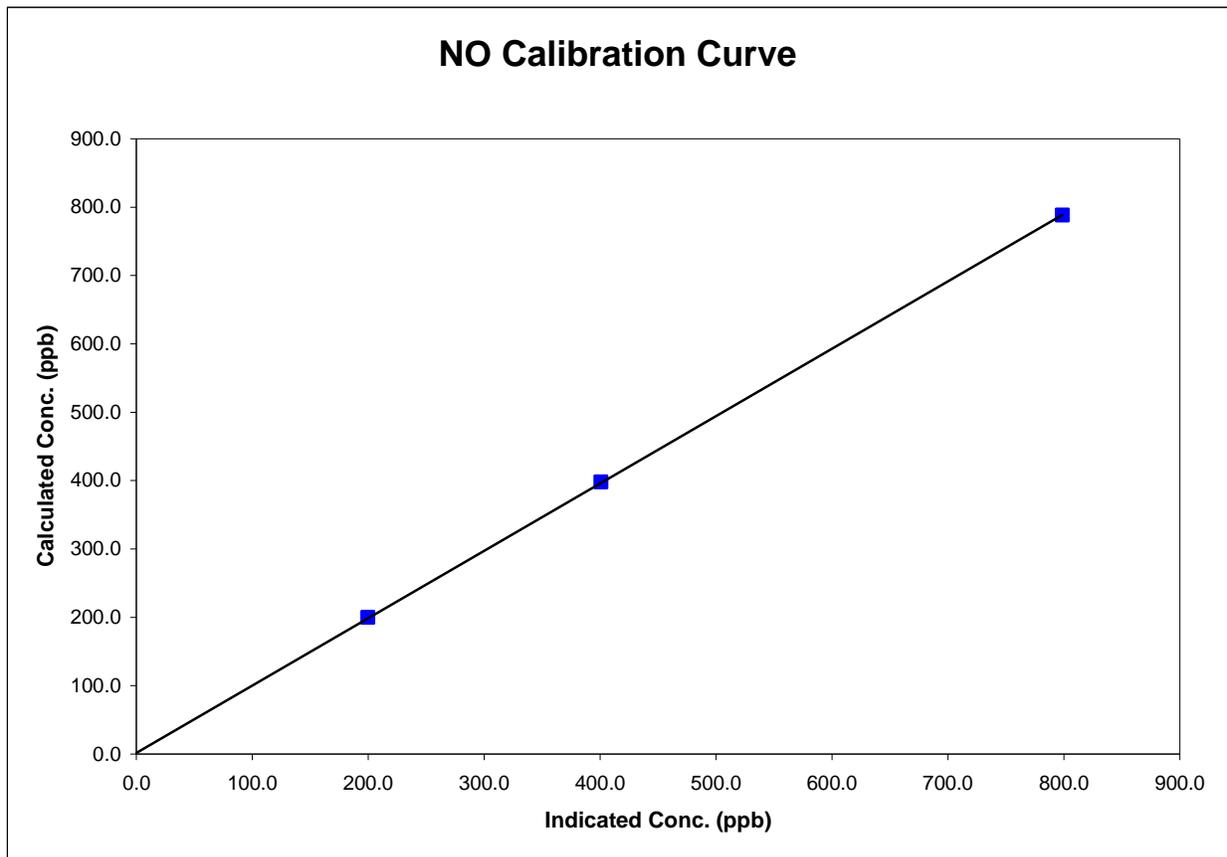


### Station Information

Calibration Date	May 4, 2007	Previous Calibration	April 17, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	11:29	End Time (MST)	15:17
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	N/A		
788.2	798.6	0.9870	Correlation Coefficient	0.999987
397.7	400.9	0.9921		
199.8	199.8	1.0000	Slope	0.985813
			Intercept	1.655357



<b>Calibration Report</b>				<b>FOCUS</b>	
Parameter	03				
Air Monitoring Network	PASZA				
<b>Station Information</b>					
Calibration Date	May 29, 2007		Previous Calibration	April 23, 2007	
Station Number	4		Station Location	Beaverlodge	
Reason:	Routine	Install	Removal	Other:	
Start Time (MST)			End Time (MST)	13:54	
Barometric Pressure	0.908	atm	Station Temperature	20.0	Deg C
Calibrator	EnviroNics 6103		Serial Number	1633	
Cal Gas Concentration	NA		Cal Gas Expiry Date	NA	
DACS make	Focus AP1000		DACS serial No.	45269	
DACS voltage range	0 - 1 volt		DACS channel #	5	
	Before			After	
Calculated slope	0.983061		Calculated slope	0.937360	
Calculated intercept	2.707285		Calculated intercept	3.209646	
Analyzer make	Teco 49C		Analyzer serial #	49C-76443-383	
	before			after	
Concentration range	0 - 500		ppb	0 - 500	
offset	-0.20		ppb	-0.20	
slope	1.028			1.043	
Lamp temp	71		mV	71	
Lamp Intensity A/B	85000/83000		mV	83000/81000	
Pressure	651.6		inches Hg	692	
Flow A	731		ccm	756	
Flow B	686		Deg C	712	
<b>Calibration Data</b>					
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	0.0	-0.2	N/A	
4992	0.00	313.9	333.7	0.9404	
4992	0.00	183.2	189.1	0.9686	
4992	0.00	87.9	87.7	1.0023	
4992	0.00	0.0	-0.2	As found zero	
4992	0.00	313.9	326.7	As found span	
Average Correction Factor				0.9704	
Calculated value of As Found Response:		324.1 ppm	Percent Change of As Found:		3.3%
	before calibration		after calibration		
Auto zero	2.7	ppb	3.2	ppb	
Auto span	116.7	ppb	109.3	ppb	
Notes:					
Calibration Performed By: Dawn Ewan					

# Calibration Summary

Parameter **O3**

Air Monitoring Network **PASZA**

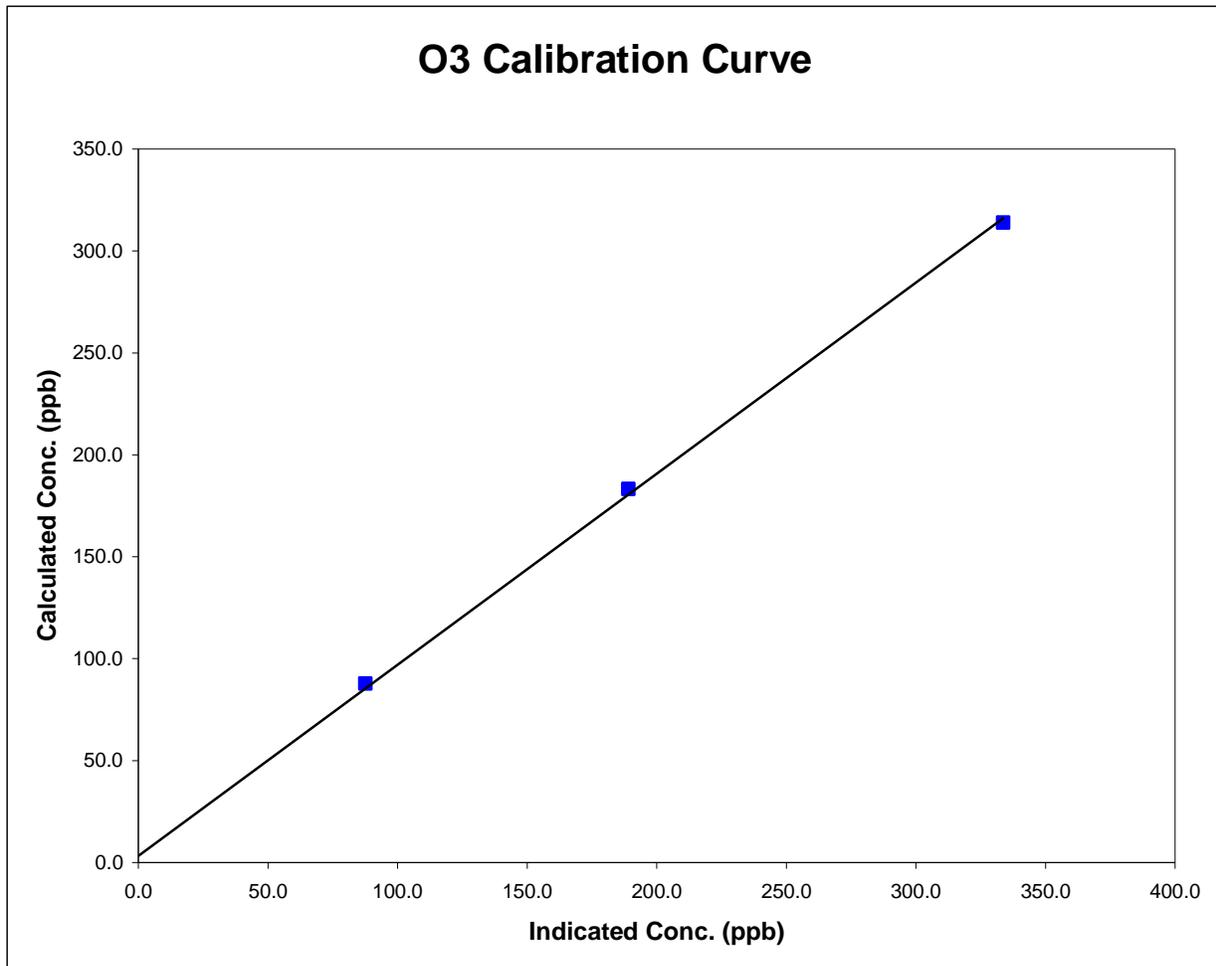


### Station Information

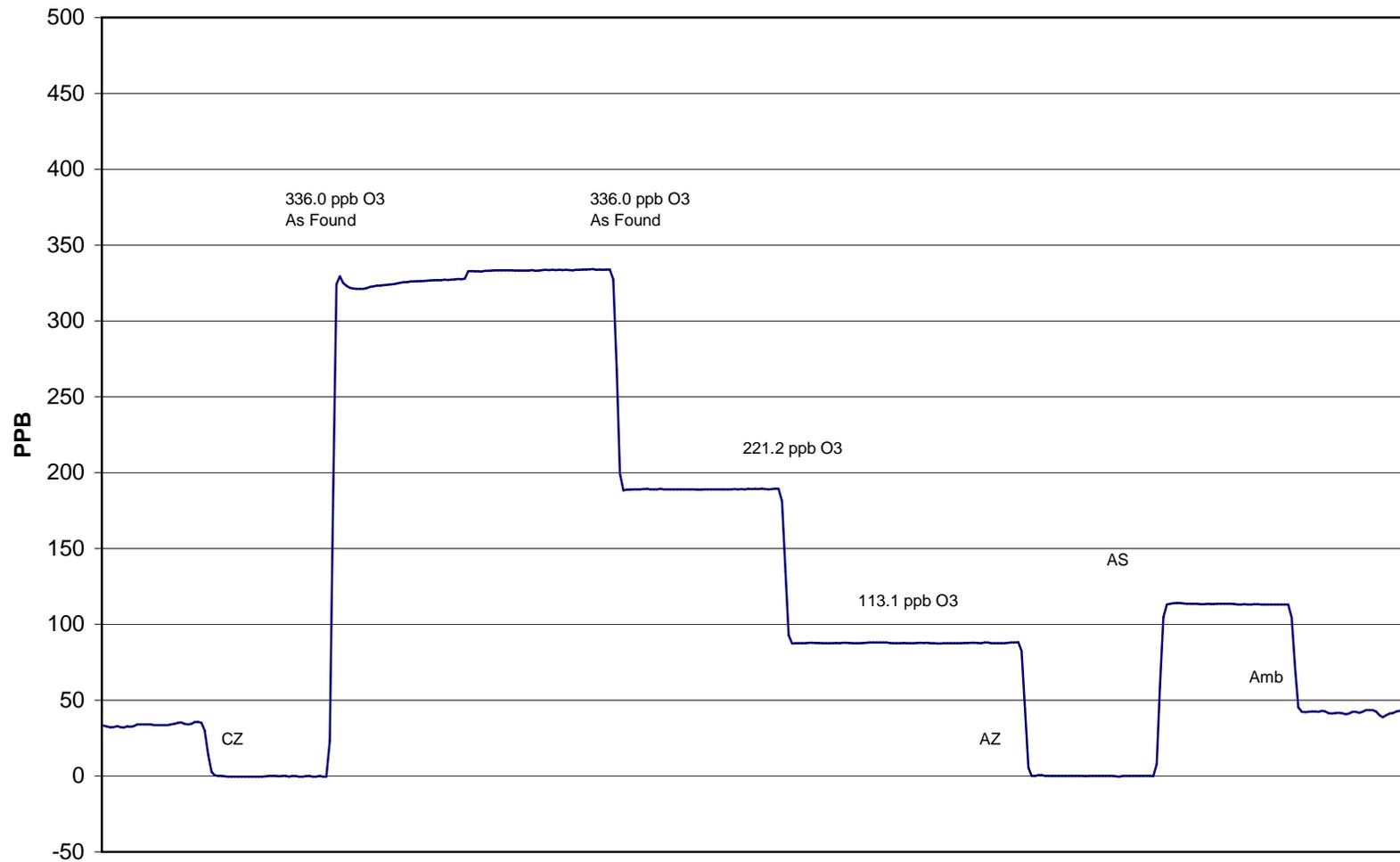
Calibration Date	May 29, 2007	Previous Calibration	April 23, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	0:00	End Time (MST)	13:54
Analyzer make/model	Teco 49C	Analyzer serial #	49C-76443-383

### Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.2	NA		
313.9	333.7	0.9404	Correlation Coefficient	0.999499
183.2	189.1	0.9686		
87.9	87.7	1.0023	Slope	0.937360
			Intercept	3.209646



O3 Calibration



May 29, 2007

# Calibration Report

Parameter **PM2.5**  
Air Monitoring Network **PASZA**



## Station Information

Calibration Date	May 29, 2007	Previous Calibration	March 23, 2007
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)	13:00	End Time (MST)	14:00
Barometric Pressure	0.906 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	13.68	SLPM	13.68	SLPM
Filter Load	26	%	16	%
Ko Factor	14287		14287	
Temperature	19.6	Deg C	19.6	Deg C
Pressure	0.919	ATM	0.919	ATM

## Calibration Data

Parameter	Set Point	Teom Reading (As Found)	Tolerance	Teom Reading (After Adjustments)
zero flow - main	0.0	0.08		0.08
zero flow - auxillary	0.0	-0.04		-0.04
flow recovery - main	45 - 60 Seconds	30.00	45 - 60 Seconds	30.00
flow recovery - aux	46 - 60 Seconds	47.00	46 - 60 Seconds	47.00
Temperature	measured	19.6	+/- 1.0 Deg C	19.6
Pressure	measured	0.919	+/- 1.5% $\Delta$ ATM	0.919
Total Flow	16.67 SLPM	15.30		16.54
Auxillary Flow	13.67 SLPM	12.84	+/- 1.0 SLPM	13.56
Main Flow	3.0 SLPM	2.803	+/- 0.2 SLPM	2.977
Leak Check - main	0.0		<0.15 SLPM	0.07
Leak Check - aux	0.0		<0.15 SLPM	0.03
Ko Factor (w/o filter)	measured	350.047	filter weight (g)	0.10931
Ko Factor (w/ filter)	measured	251.277	% Ko difference	0.3%

Notes: Full analogue calibration.  
Adjusted temperature and flows.  
New filter installed.

Calibration Performed By: Dawn Ewan

# Calibration Report



Parameter **SO<sub>2</sub>**

Air Monitoring Network **PASZA**

## Station Information

Calibration Date	May 23, 2007	Previous Calibration	April 24, 2007
Station Number	1	Station Location	Falher
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
		<input type="checkbox"/> Other:	
Start Time (MST)	11:30	End Time (MST)	14:06
Barometric Pressure	27.5 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	1,946 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.934802	Perm-tube Cert #	19-25218
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	0.999482	Calculated slope	1.000484
Calculated intercept	-0.370198	Calculated intercept	33.864094
Analyzer make	TEI Model 43C APS1AB	Analyzer serial #	609716238

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	8.2		8.2	
Coefficient	1.161		1.161	
UV Lamp voltage	748	V	748	V
Chamber Temperature	44.6	C	44.6	C
Perm gas Temp	45	C	45	C
Pressure	677.5	"Hg	677.5	"Hg
Sample Flow	488	LPM	488	LPM
Lamp Intensity	34000	Hz	34000	Hz

## 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	2355.7	0.0	-0.3	N/A
2520	2355.7	315.3	317.8	0.9921
2975	2781.0	267.1	150.4	1.7753
9040	8450.6	87.9	66.7	1.3186
zero	2355.7	0.0	-0.3	As Found Zero
2520	2355.7	315.3	317.8	As Found Span
Average Correction Factor				1.3620

Calculated value of As Found Response: 317.640 ppm      Percent Change of As Found: -0.7%

	before calibration		after calibration	
Auto zero	-0.4	ppm	33.9	ppm
Auto span	299.3	ppm	326.4	ppm

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

Calibration Performed By: Dawn Ewan

## Calibration Summary

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

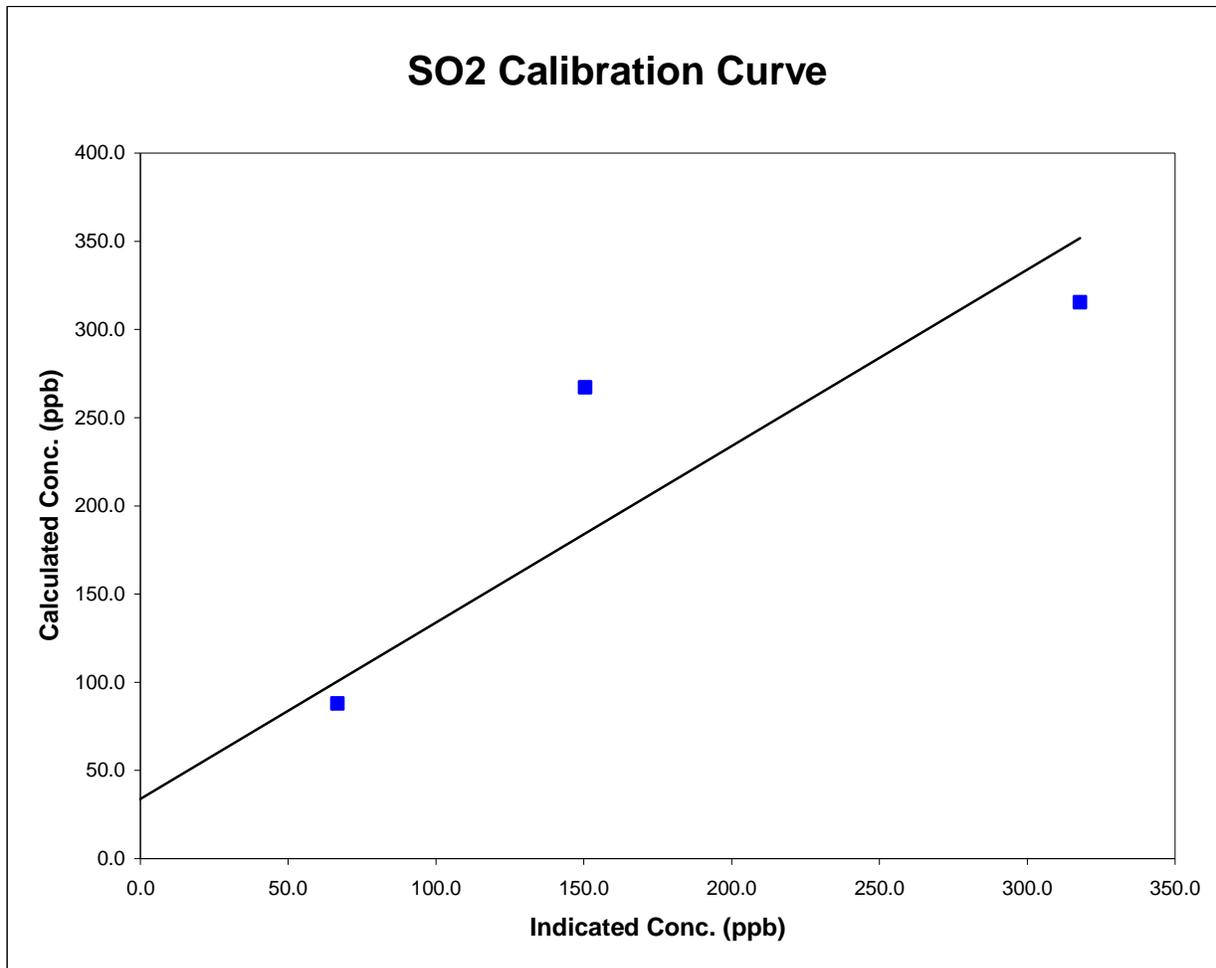


### Station Information

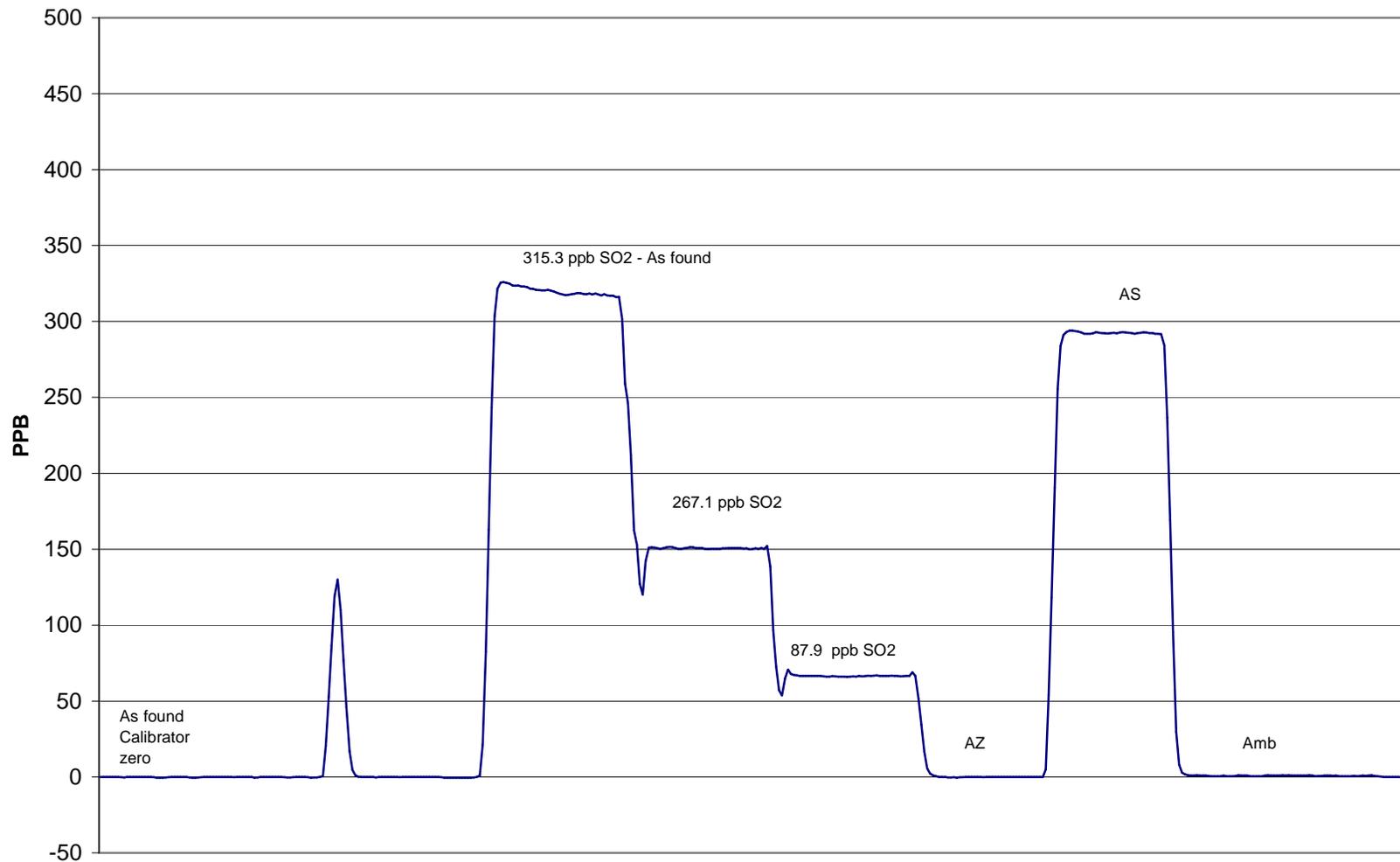
Calibration Date	May 23, 2007	Previous Calibration	April 24, 2007
Station Number	1	Station Location	Falher
Start Time (MST)	11:30	End Time (MST)	14:06
Analyzer make/model	TEI Model 43C APS1AB	Analyzer serial #	609716238

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	N/A		
315.3	317.8	0.9921	Correlation Coefficient	0.857031
267.1	150.4	1.7753		
87.9	66.7	1.3186	Slope	1.000484
			Intercept	33.864094



### SO2 Calibration



May 23, 2007

# Calibration Report



Parameter

SO<sub>2</sub>

Air Monitoring Network

PASZA

## Station Information

Calibration Date	May 24, 2007	Previous Calibration	May 23, 2007
Station Number	1	Station Location	Falher
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:30	End Time (MST)	14:30
Barometric Pressure	27.5 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	1,946 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.934802	Perm-tube Cert #	19-25218
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	0.999482	Calculated slope	0.997472
Calculated intercept	-0.370198	Calculated intercept	2.931688
Analyzer make	TEI Model 43C APS1AB	Analyzer serial #	609716238

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	8.2		8.2	
Coefficient	1.161		1.161	
UV Lamp voltage	748	V	748	V
Chamber Temperature	44.6	C	44.6	C
Perm gas Temp	45	C	45	C
Pressure	677.5	"Hg	677.5	"Hg
Sample Flow	488	LPM	488	LPM
Lamp Intensity	34000	Hz	34000	Hz

## 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	2075.3	0.0	-0.2	N/A
2220	2075.3	357.9	357.1	1.0023
5150	4814.2	154.3	150.3	1.0266
8845	8268.3	89.8	84.6	1.0618
zero	2196.8	0.0	-0.2	As Found Zero
2350	2196.8	338.1	369.8	As Found Span
Average Correction Factor				1.0302

Calculated value of As Found Response: 369.437 ppm      Percent Change of As Found: -9.3%

	before calibration		after calibration	
Auto zero	-0.4	ppm	2.7	ppm
Auto span	299.3	ppm	286.3	ppm

Notes:

Calibration Performed By:

Dawn Ewan

# Calibration Summary



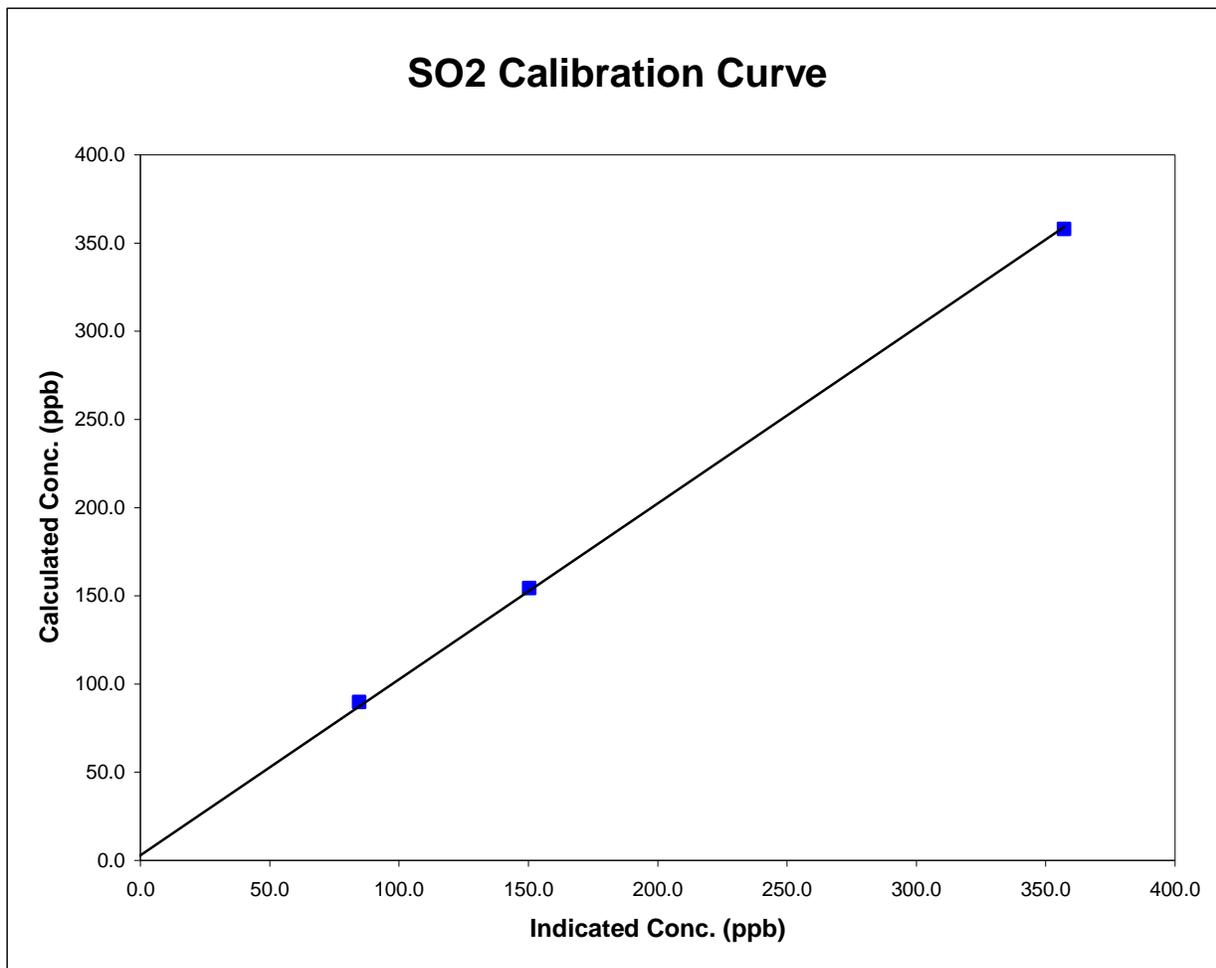
Parameter **SO2**  
 Air Monitoring Network **PASZA**

### Station Information

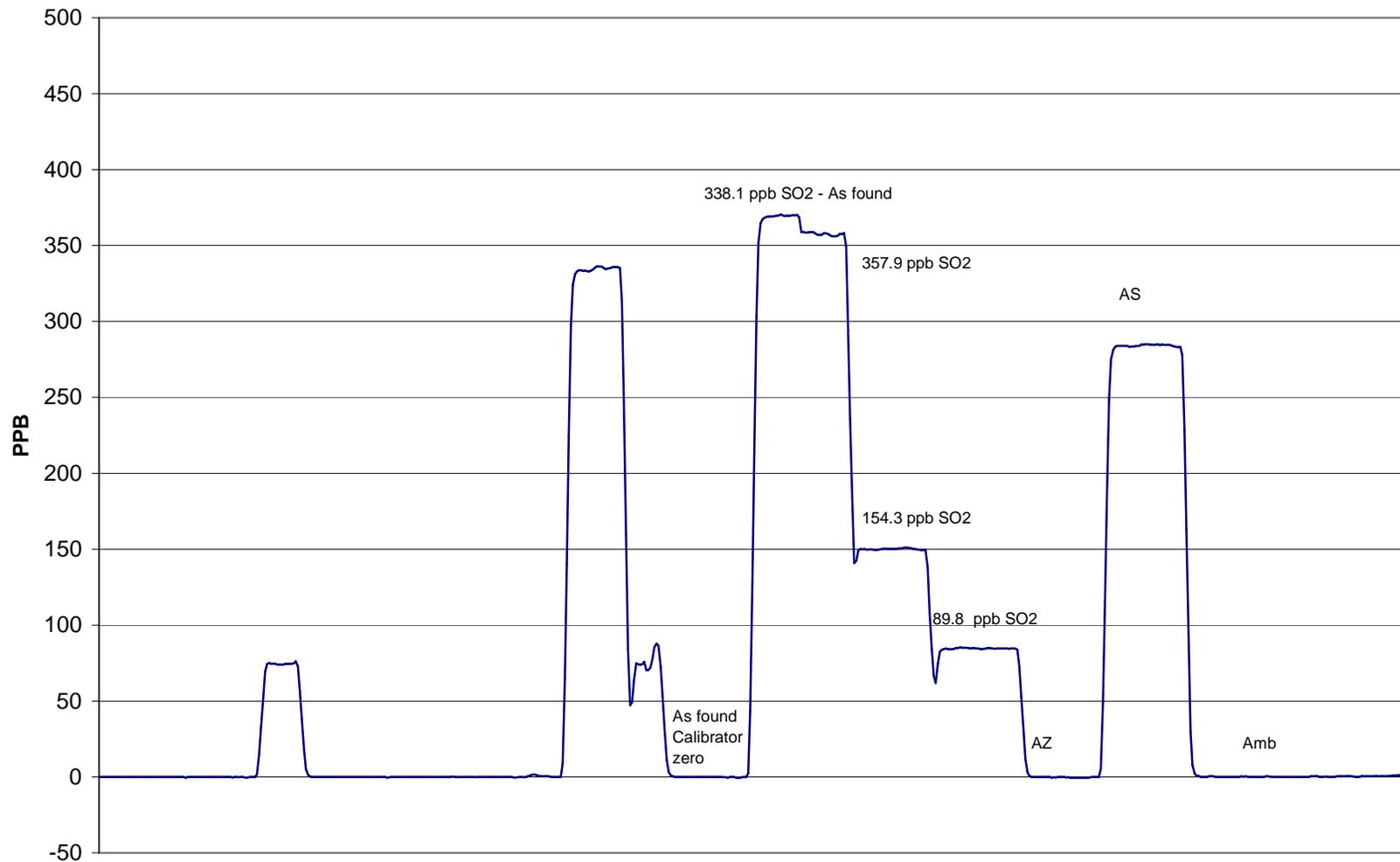
Calibration Date	May 24, 2007	Previous Calibration	May 23, 2007
Station Number	1	Station Location	Falher
Start Time (MST)	10:30	End Time (MST)	14:30
Analyzer make/model	TEI Model 43C APS1AB	Analyzer serial #	609716238

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.2	N/A		
357.9	357.1	1.0023	Correlation Coefficient	0.999750
154.3	150.3	1.0266		
89.8	84.6	1.0618	Slope	0.997472
			Intercept	2.931688



### SO2 Calibration



May 24, 2007

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

Calibration Date	May 23, 2007	Previous Calibration	April 24, 2007
Station Number	5	Station Location	Falher
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:30	End Time (MST)	14:06
Barometric Pressure	27.5 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	235 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.934802	Perm-tube Cert #	T-25214
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 1 volt	DACS channel #	6
	Before		After
Calculated slope	1.003509	Calculated slope	1.094992
Calculated intercept	1.249256	Calculated intercept	1.115041

Analyzer make TEI Model 43C APS1AB Analyzer serial # 609716238

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	11.5	ppb	11.5	ppb
coefficient	1.857		1.857	
Lamp Voltage	809	volts	809	volts
Chamber Temp	43.8	Deg C	43.8	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	661.2	mm Hg	661.2	mm Hg
Sample Flow	436	ccm	436	ccm
Lamp Intensity	39,000	mv	39,000	mv

**Calibration Data**

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	2075.3	0.0	-0.5	N/A
2220	2075.3	81.4	72.5	1.1235
5150	4814.2	35.1	34.0	1.0322
9040	8450.6	20.0	14.7	1.3636
zero	2075.3	0.0	-0.5	As Found Zero
2220	2075.3	81.4	72.5	As Found Span
Average Correction Factor				1.1731

Calculated value of As Found Response: 74.52 ppm Percent Change of As Found: 8.5%

	before calibration		after calibration	
Auto zero	0.0	ppm	60.3	ppm
Auto span	93.8	ppm	29.3	ppm

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

Calibration Performed By: Dawn Ewan

# Calibration Summary



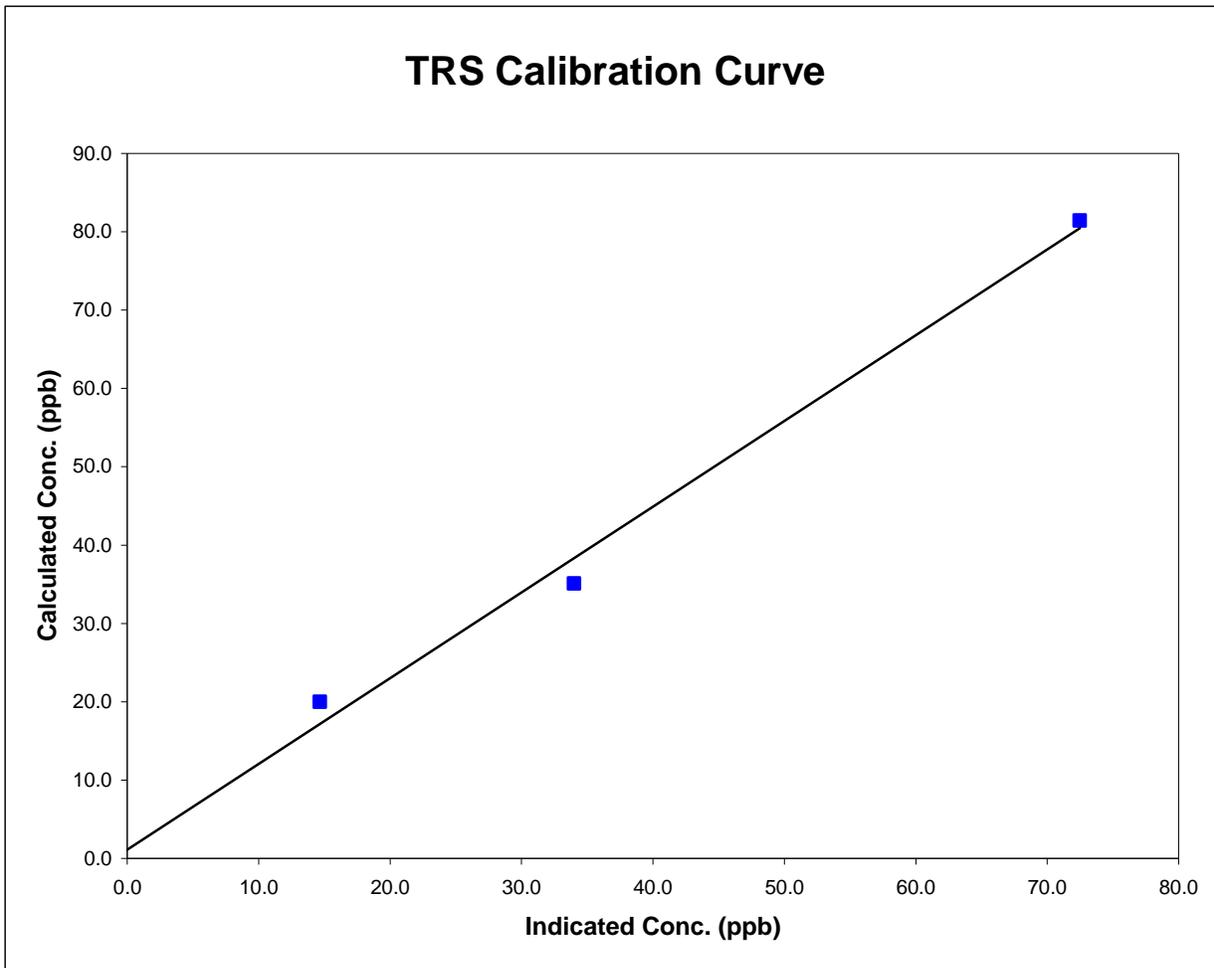
Parameter **TRS**  
 Air Monitoring Network **PASZA**

### Station Information

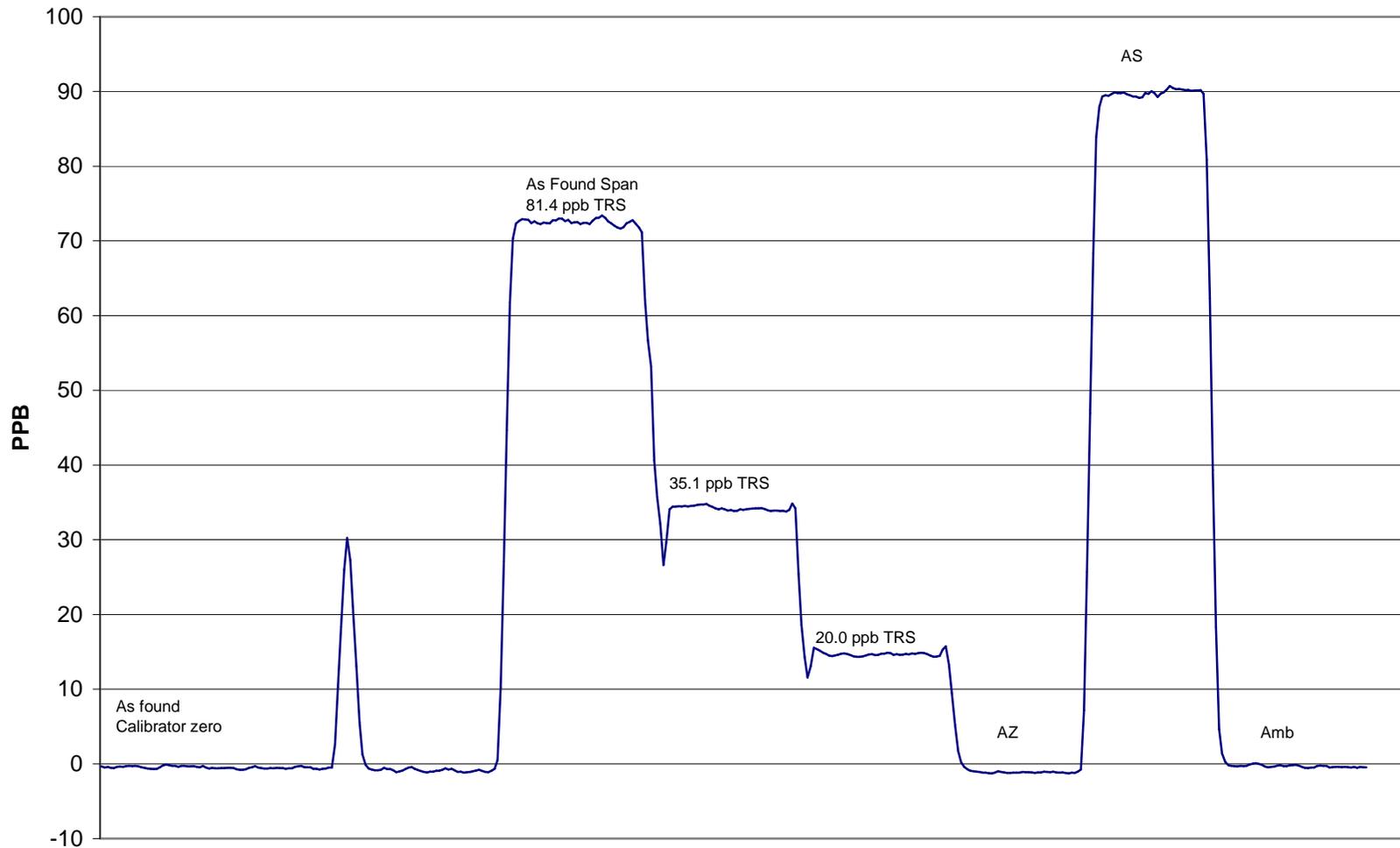
Calibration Date	May 23, 2007	Previous Calibration	April 24, 2007
Station Number	5	Station Location	Falher
Start Time (MST)	11:30	End Time (MST)	14:06
Analyzer make/model	TEI Model 43C APS1AB	Analyzer serial #	609716238

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.5	N/A		
81.4	72.5	1.1235	Correlation Coefficient	0.994528
35.1	34.0	1.0322		
20.0	14.7	1.3636	Slope	1.094992
			Intercept	1.115041



### TRS Calibration



May 23, 2007

# Calibration Report

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

## Station Information

Calibration Date	May 24, 2007	Previous Calibration	April 24, 2007
Station Number	5	Station Location	Falher
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:30	End Time (MST)	14:30
Barometric Pressure	27.6 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	235 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.938202	Perm-tube Cert #	T-25214
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 1 volt	DACS channel #	6
	Before		After
Calculated slope	1.003509	Calculated slope	0.984786
Calculated intercept	1.249256	Calculated intercept	1.515423

Analyzer make **TEI Model 43C APS1AB** Analyzer serial # **609716238**

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	11.5	ppb	11	ppb
coefficient	1.857		1.798	
Lamp Voltage	809	volts	808	volts
Chamber Temp	43.8	Deg C	43.8	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	661.2	mm Hg	671.2	mm Hg
Sample Flow	436	ccm	440	ccm
Lamp Intensity	39,000	mv	39,100	mv

## Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	2082.8	0.0	-1.0	N/A
2220	2082.8	81.1	81.1	1.0002
5150	4831.7	35.0	33.5	1.0430
8845	8298.4	20.4	18.8	1.0834
zero	2204.8	0.0	-1.0	As Found Zero
2350	2204.8	76.6	83.8	As Found Span
Average Correction Factor				1.0422

Calculated value of As Found Response: **86.37 ppm** Percent Change of As Found: **-12.7%**

	before calibration		after calibration	
Auto zero	0.0	ppm	0.5	ppm
Auto span	93.8	ppm	88.6	ppm

Notes: Adjusted span only.Calibration Performed By: Dawn Ewan

## Calibration Summary

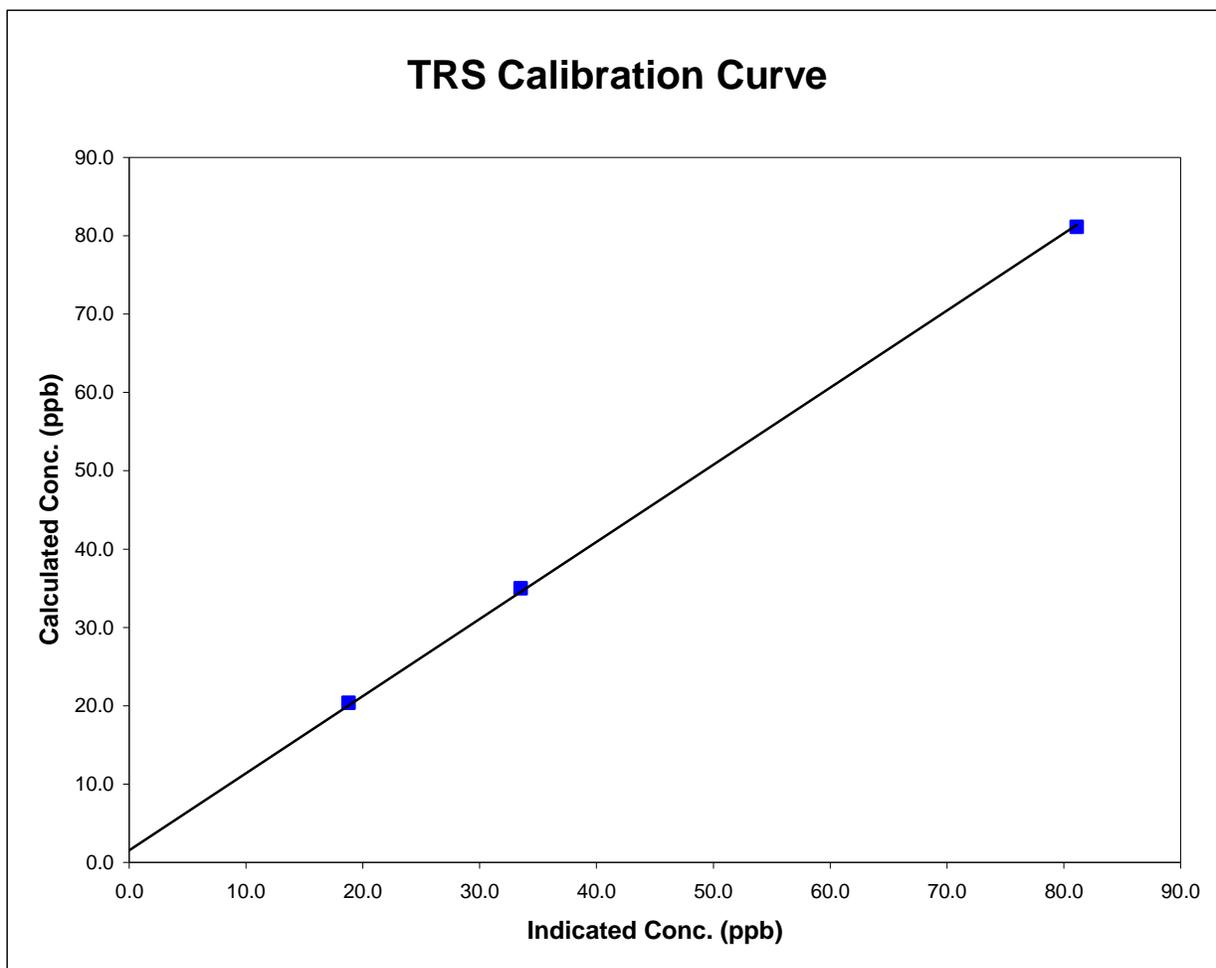
Parameter **TRS**Air Monitoring Network **PASZA**

### Station Information

Calibration Date	May 24, 2007	Previous Calibration	April 24, 2007
Station Number	5	Station Location	Falher
Start Time (MST)	10:30	End Time (MST)	14:30
Analyzer make/model	TEI Model 43C APS1AB	Analyzer serial #	609716238

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-1.0	N/A		
81.1	81.1	1.0002	Correlation Coefficient	0.999822
35.0	33.5	1.0430		
20.4	18.8	1.0834	Slope	0.984786
			Intercept	1.515423



### TRS Calibration



May 24, 2007

**Calibration Report**Parameter **O3**Air Monitoring Network **PASZA****Station Information**

Calibration Date	May 24, 2007	Previous Calibration	April 24, 2007
Station Number	6	Station Location	Falher
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	9:53	End Time (MST)	12:27
Barometric Pressure	0.920 atm	Station Temperature	20.0 Deg C
Calibrator	Enviroics 6103	Serial Number	2488
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 1 volt	DACS channel #	7
	Before		After
Calculated slope	0.979019	Calculated slope	0.990756
Calculated intercept	0.423012	Calculated intercept	2.450834
Analyzer make	TEI 49C a3C1AB	Analyzer serial #	609716240

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
offset	0.2		0.2	
slope	1.055		0.994	
Cell A	77600	mV	79750	mV
Cell B	77700	mV	79350	mV
Pressure	699.6	inches Hg	704	inches Hg
Cell A Flow	674	mL/min	677	mL/min
Cell B Flow	674	mL/min	678	mL/min

**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)
4996	0.00	0.0	-0.1	N/A
4996	0.00	275.7	278.1	0.9913
4996	0.00	186.9	183.6	1.0177
4996	0.00	89.5	85.7	1.0443
4996	0.00	0.0	-0.1	As found zero
4996	0.00	275.7	293.9	As found span
Average Correction Factor				1.0178

Calculated value of As Found Response: 288.3 ppm Percent Change of As Found: 4.6%

	before calibration		after calibration	
Auto zero	0.4	ppb	1.9	ppb
Auto span	324.0	ppb	315.0	ppb

Notes: Adjusted Span onlyCalibration Performed By: Dawn Ewan

# Calibration Summary

Parameter **O3**

Air Monitoring Network **PASZA**

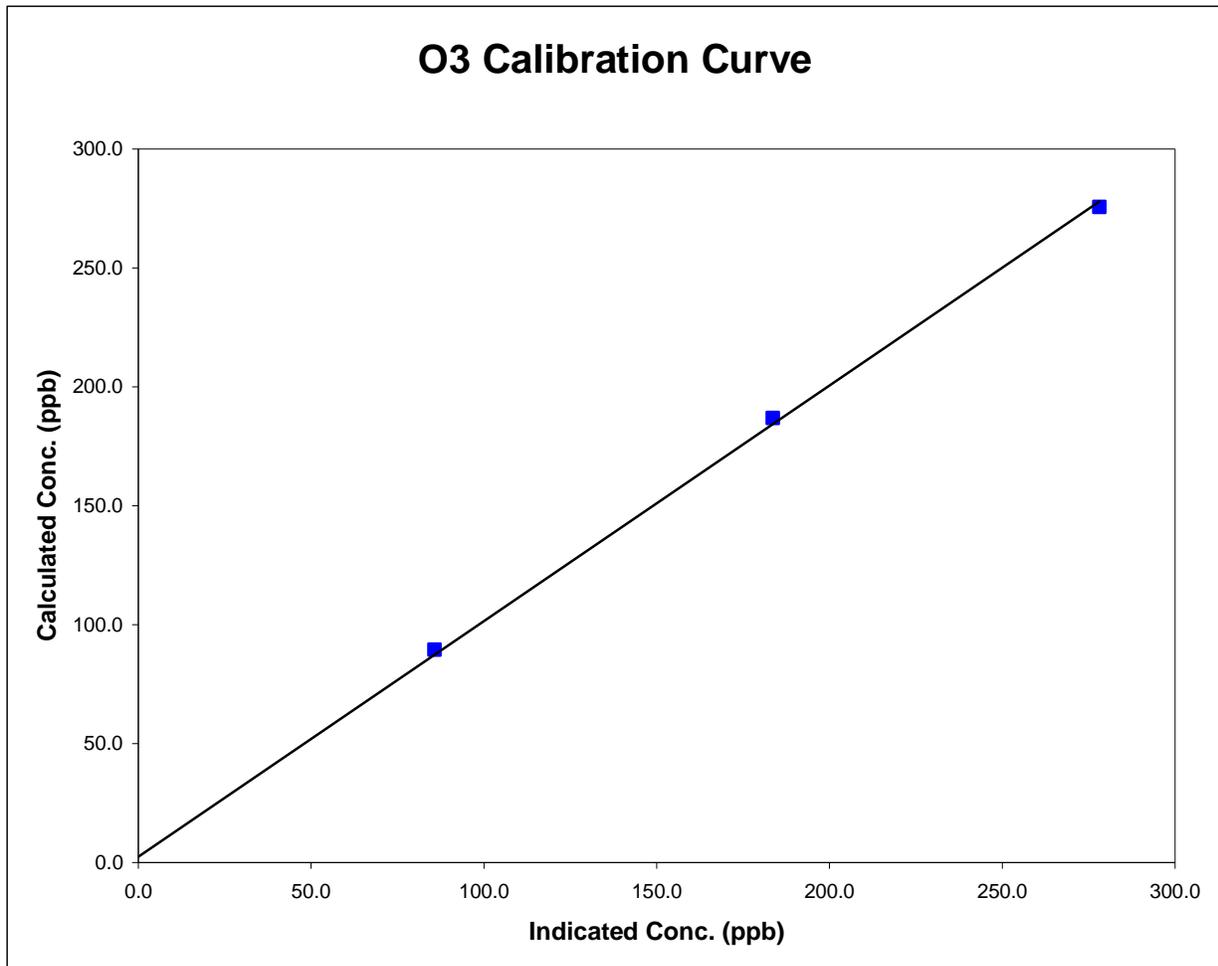


### Station Information

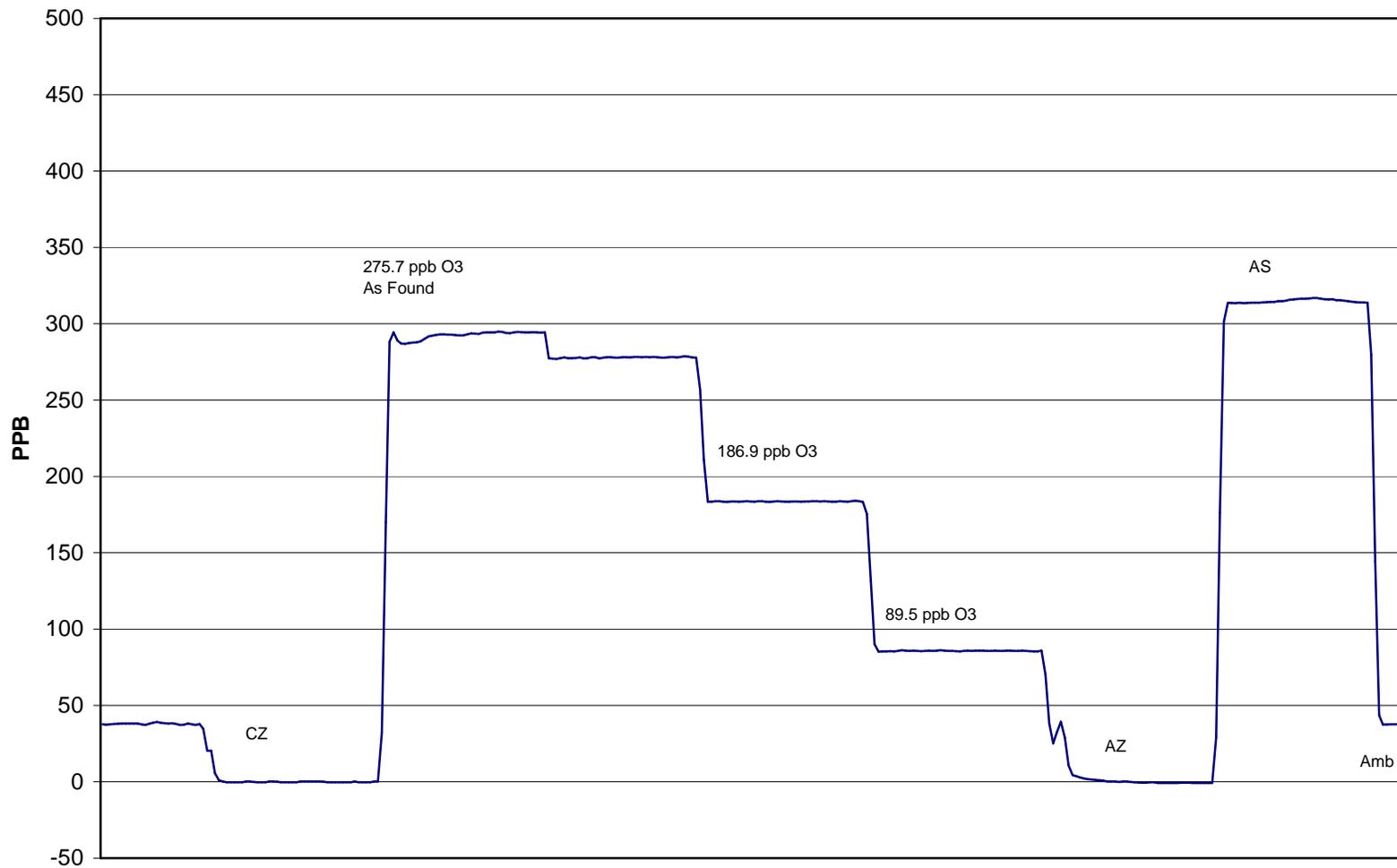
Calibration Date	May 24, 2007	Previous Calibration	April 24, 2007
Station Number	6	Station Location	Falher
Start Time (MST)	9:53	End Time (MST)	12:27
Analyzer make/model	TEI 49C a3C1AB	Analyzer serial #	609716240

### Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	NA		
275.7	278.1	0.9913	Correlation Coefficient	0.999496
186.9	183.6	1.0177		
89.5	85.7	1.0443	Slope	0.990756
			Intercept	2.450834



O3 Calibration



May 24, 2007

**Calibration Report**

Parameter

**NOx-NO-NO<sub>2</sub>**

Air Monitoring Network

**PASZA****Station Information**

Calibration Date	<b>May 23, 2007</b>	Previous Calibration	April 24, 2007
Station Number	<b>6</b>	Station Location	<b>Falher</b>
Reason:	<b>Routine</b>	Installation	Removal
Other:			
Start Time (MST)	<b>11:30</b>	End Time (MST)	<b>15:20</b>
Barometric Pressure	<b>0.930</b> Atm	Station Temperature	<b>20.0</b> Deg C
Calibrator	<b>EnviroNics 6103</b>	Serial Number	<b>2844</b>
NO Cal Gas Conc	<b>49.5</b> ppm	Cal Gas Expiry Date	<b>2-Jan-09</b>
NOx Cal Gas Conc	<b>49.6</b> ppm	Cal Gas Serial #	<b>FF-5013</b>

**DACS Information**

DACS make	<b>FOCUS AP1000</b>	DACS serial No.	<b>45269</b>
-----------	---------------------	-----------------	--------------

Parameter		NO2	NOx	NO
Before	Data Slope	1.004389	1.004675	0.999496
	Data Offset	0.202431	-1.557130	-1.530856
After	Data Slope	<b>1.001368</b>	<b>1.000833</b>	<b>1.000394</b>
	Data Offset	<b>-0.919945</b>	<b>-3.559717</b>	<b>-4.072696</b>
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

**Analyzer Information**

Analyzer make/model	<b>Teco 42i</b>	Analyzer serial #	<b>701120011</b>
---------------------	-----------------	-------------------	------------------

Test Point	before		after	
Concentration range	0-1000	ppb	0-1000	ppb
NO background	5.7	ppb	6.3	mV
NOx background	6.0	ppb	6.7	mV
NO coefficient	1.131		1.232	
NOx coefficient	0.994		1.001	
Chamber Temp	49.9	Deg C	50.0	Deg C
Cooler Temp	-3.0	Deg C	-2.7	Deg C
Converter Temp	325.0	Deg C	326.0	Deg C
Flow	542.0	mm Hg	467.0	cc/min

Notes:

---



---



---

# Calibration Report



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

## Station Information

Calibration Date: **May 23, 2007** Station Location: **Falher**

### Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor
zero	4992	0.00	0.0	0.0	0.0	0.3	0.1	0.5	N/A	N/A
1	4992	80.00	782.3	780.8	1.6	783.4	782.2	2.8	0.9987	0.9982
2	4992	39.93	393.6	392.8	0.8	398.9	399.5	1.2	0.9866	0.9833
3	4992	19.91	197.0	196.6	0.4	203.5	204.2	0.7	0.9685	0.9631
AFZ	4992	0.00	0.0	0.0	0.0	0.3	0.1	0.5	0.0000	0.0000
AFS	4992	80.00	782.3	780.8	1.6	712.4	717.2	-2.1	1.0982	1.0887
Average Correction Factor									0.9846	0.9815

As Found Concentrations: NO<sub>x</sub>= 710.5 NO= 715.5 As Found Percent Change NO<sub>x</sub>= -9.2% NO= -8.4%

### GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

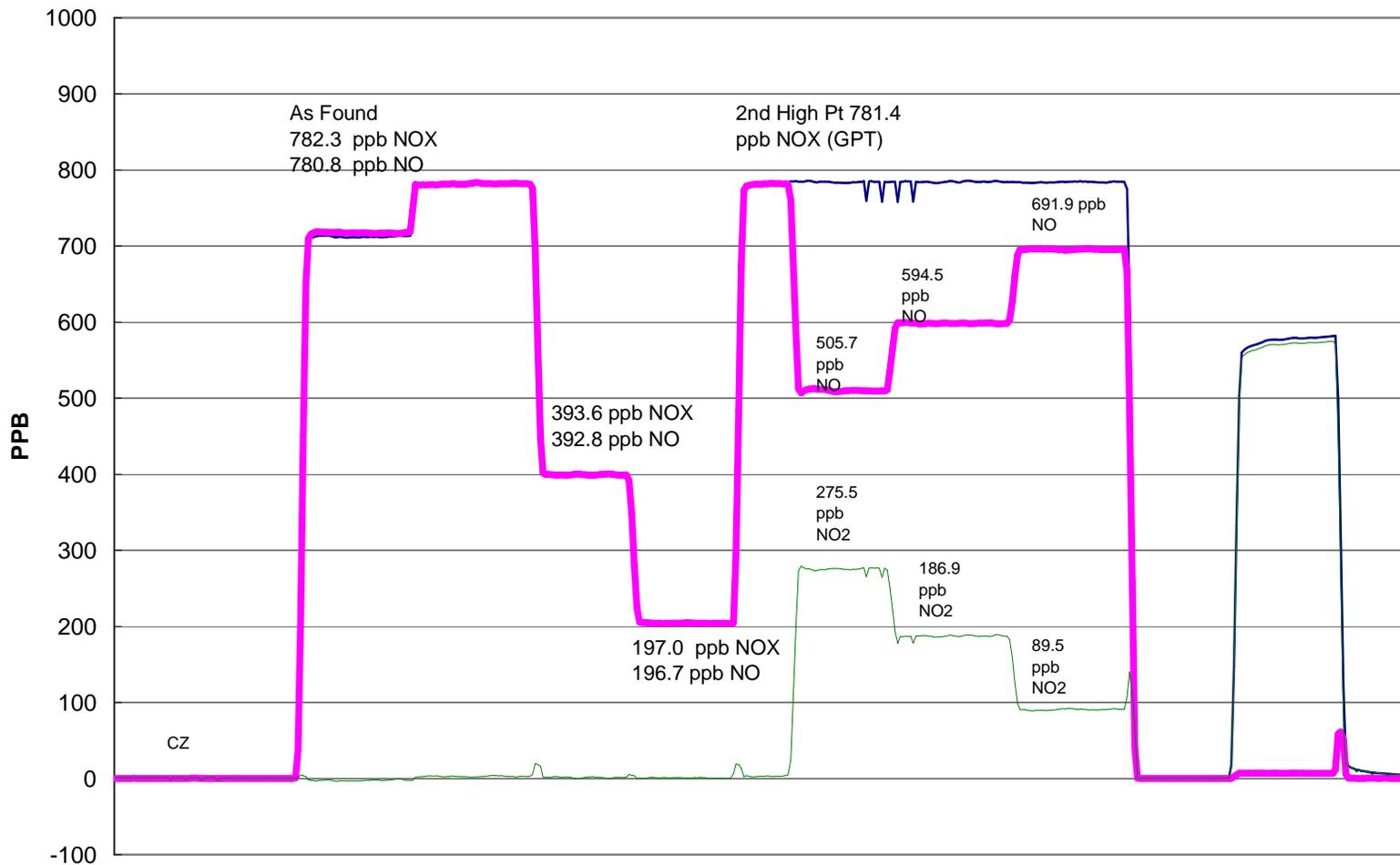
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	781.4	777.5	3.9	782.8	781.3	3.0	0.9982	0.9952	N/A	N/A
350	781.4	505.7	275.7	783.9	509.6	275.9	0.9967	0.9924	0.9992	100.1%
200	781.4	594.5	186.9	784.6	598.4	187.7	0.9959	0.9936	0.9954	100.5%
100	781.4	691.9	89.5	784.3	695.7	90.9	0.9963	0.9945	0.9849	101.5%
Average Correction Factor							0.9963	0.9935	0.9932	100.7%

### AIC Data

Parameter	Previous calibration				Current calibration			
	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	0.9	1.1	1.1	ppb	0.6	1.1	0.9	ppb
Auto span	500.8	502.4	4.5	ppb	576.2	572.6	2.8	ppb

Calibration Performed By: Dawn Ewan

### NOx Calibration



May 23, 2007

## Calibration Summary

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

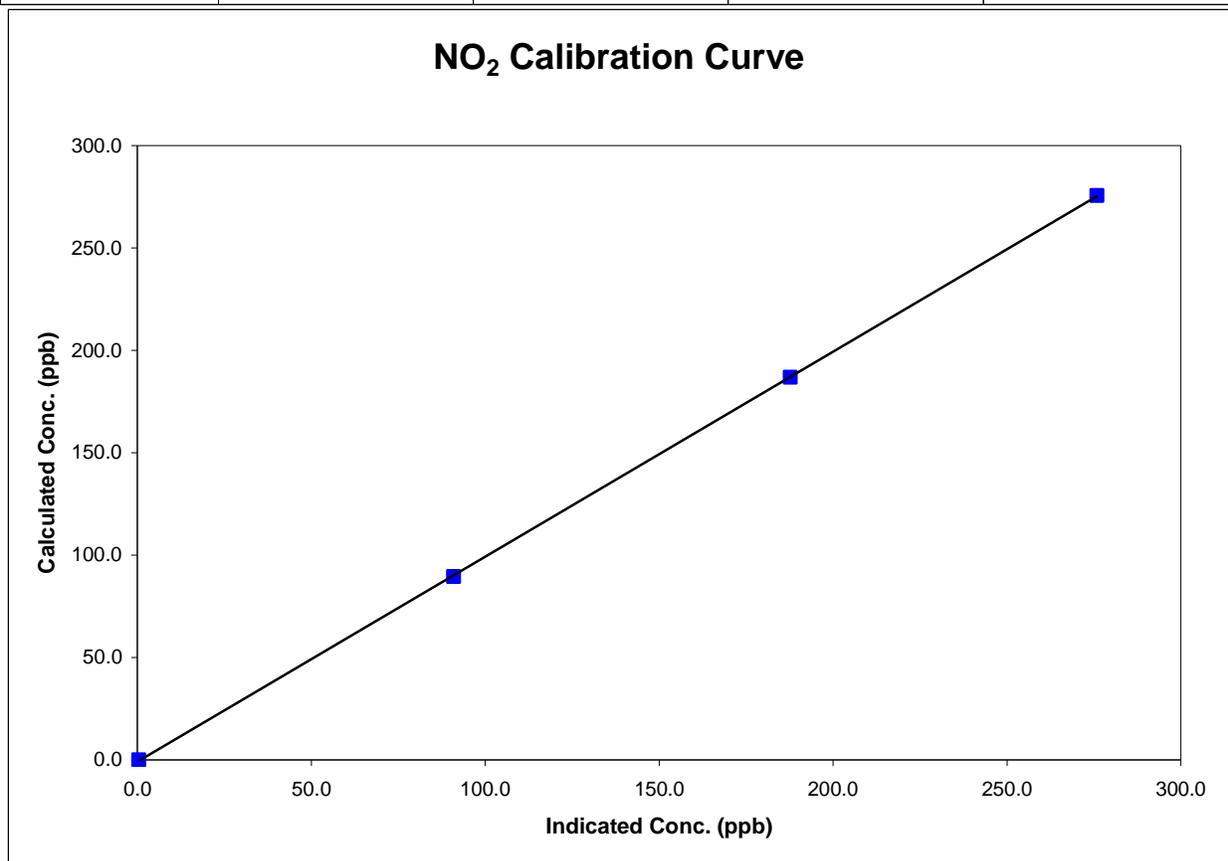


### Station Information

Calibration Date	May 23, 2007	Previous Calibration	April 24, 2007
Station Number	6	Station Location	Falher
Start Time (MST)	11:30	End Time (MST)	15:20
Analyzer make	Teco 42i	Analyzer serial #	701120011

### Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.5	0.0000	Correlation Coefficient	0.999984
275.7	275.9	0.9992		
186.9	187.7	0.9954	Slope	1.001368
89.5	90.9	0.9849		
			Intercept	-0.919945



## Calibration Summary

Parameter **NO<sub>x</sub>**

Air Monitoring Network **PASZA**

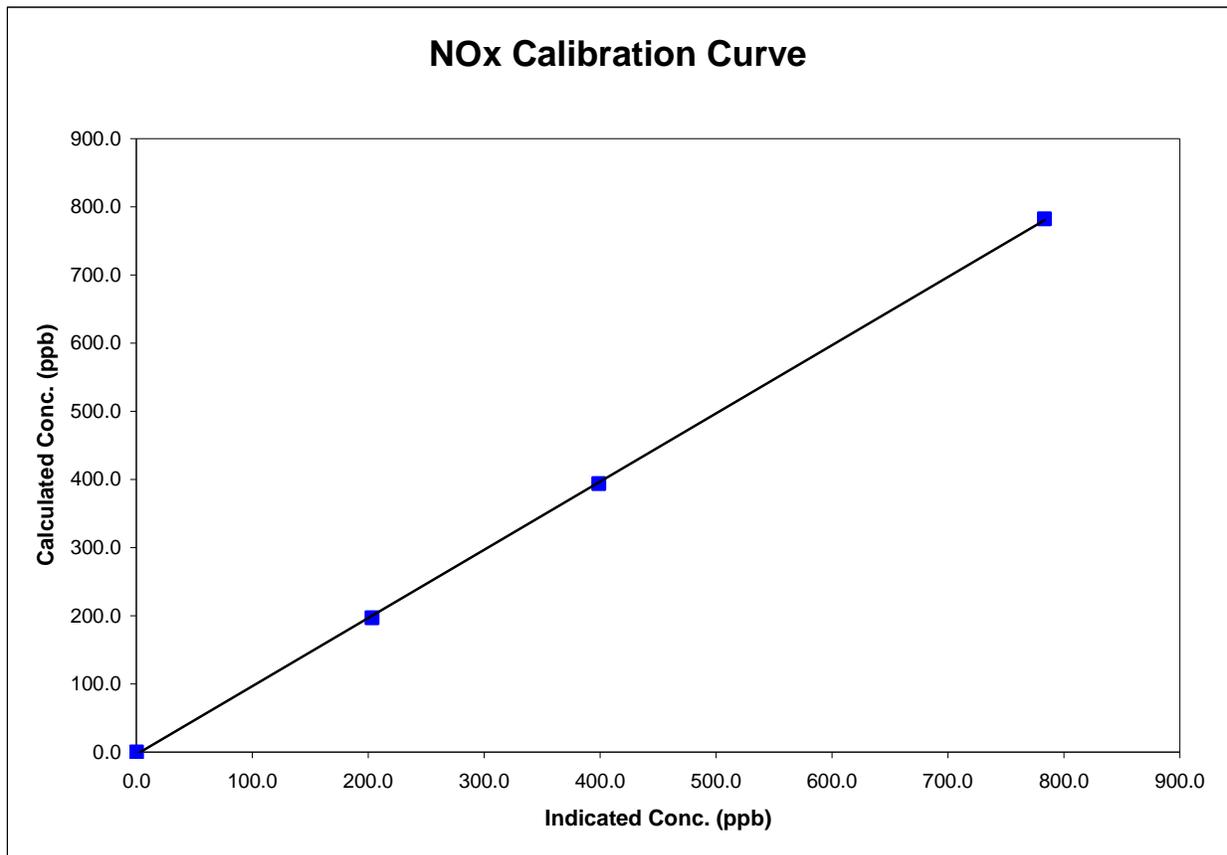


### Station Information

Calibration Date	May 23, 2007	Previous Calibration	April 24, 2007
Station Number	6	Station Location	Falher
Start Time (MST)	11:30	End Time (MST)	15:20
Analyzer make	Teco 42i	Analyzer serial #	701120011

### Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	0.0000	Correlation Coefficient	0.999917
782.3	783.4	0.9987		
393.6	398.9	0.9866		
197.0	203.5	0.9685		
			Slope	1.000833
			Intercept	-3.559717



## Calibration Summary

Parameter **NO**

Air Monitoring Network **PASZA**

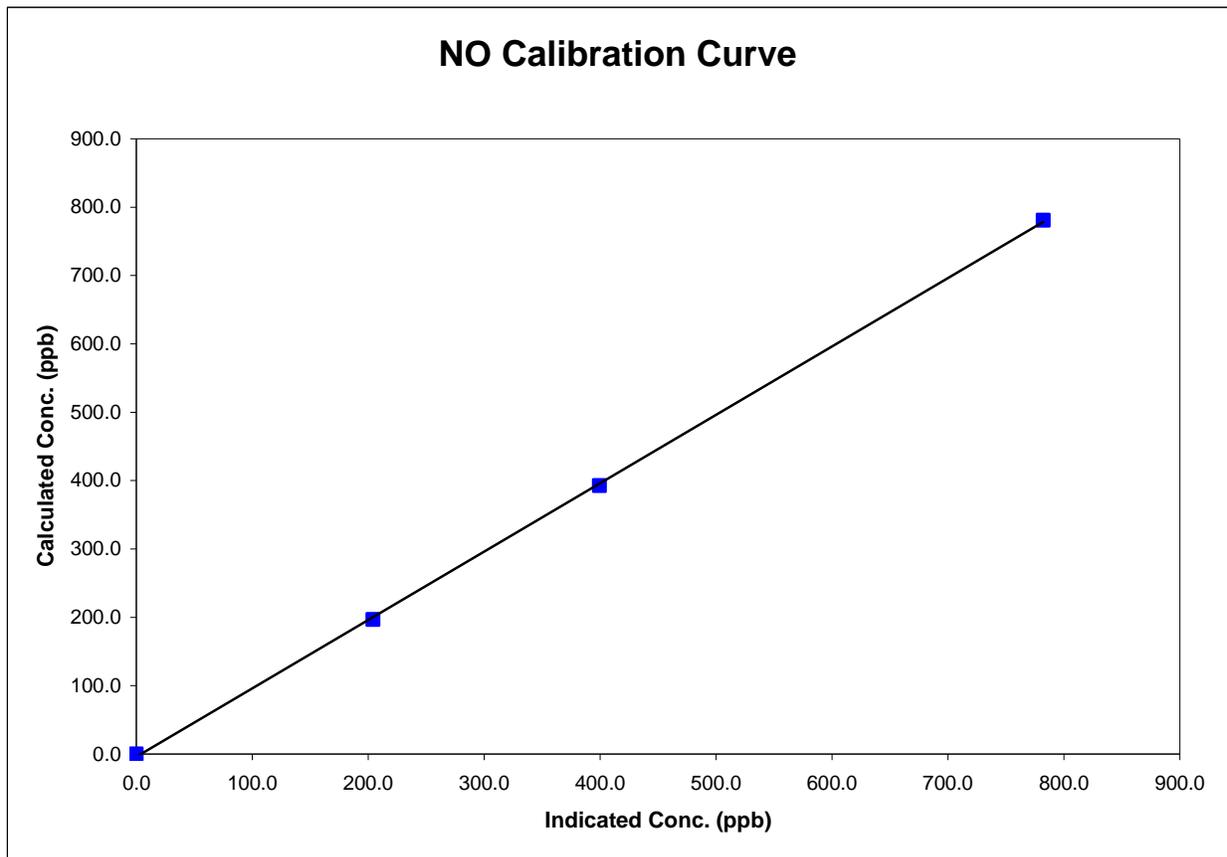


### Station Information

Calibration Date	May 23, 2007	Previous Calibration	April 24, 2007
Station Number	6	Station Location	Falher
Start Time (MST)	11:30	End Time (MST)	15:20
Analyzer make	Teco 42i	Analyzer serial #	701120011

### Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	N/A	Correlation Coefficient	0.999875
780.8	782.2	0.9982		
392.8	399.5	0.9833		
196.6	204.2	0.9631	Slope	1.000394
			Intercept	-4.072696



# Calibration Report

Parameter

SO<sub>2</sub>

Air Monitoring Network

PASZA



## Station Information

Calibration Date	May 2, 2007	Previous Calibration	April 9, 2007
Station Number	5	Station Location	Valleyview
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	14:40	End Time (MST)	17:39
Barometric Pressure	27.4 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	1,946 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.931403	Perm-tube Cert #	19-25218
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
Calculated slope	1.012312	Calculated slope	0.987242
Calculated intercept	3.137447	Calculated intercept	1.643490
Analyzer make	Teco 43C	Analyzer serial #	43C-57351-313

	before		after	
Concentration range	1000	ppb	1000	ppb
Background	29.5	ppb	29.8	ppb
coefficient	0.735		0.772	
Lamp Voltage	695	volts	693	volts
Chamber Temp	44.3	Deg C	44.4	Deg C
			45	
Pressure	650	mm Hg	645.1	mm Hg
Sample Flow	462	ccm	473	ccm
Lamp Intesity	45500	mv	45600	mv

## Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	2389.0	0.0	-0.6	N/A
2565	2389.0	310.9	314.2	0.9896
5100	4750.2	156.4	155.1	1.0085
9100	8475.8	87.6	86.8	1.0093
zero	2365.8	0.0	-3.2	As Found Zero
2540	2365.8	314.0	290.0	As Found Span
Average Correction Factor				1.0025

Calculated value of As Found Response: 299.961 ppm      Percent Change of As Found: 4.5%

	before calibration		after calibration	
Auto zero	-0.1	ppm	1.3	ppm
Auto span	89.0	ppm	944.9	ppm

Notes: Adjusted zero and span.

Calibration Performed By: Dawn Ewan

## Calibration Summary

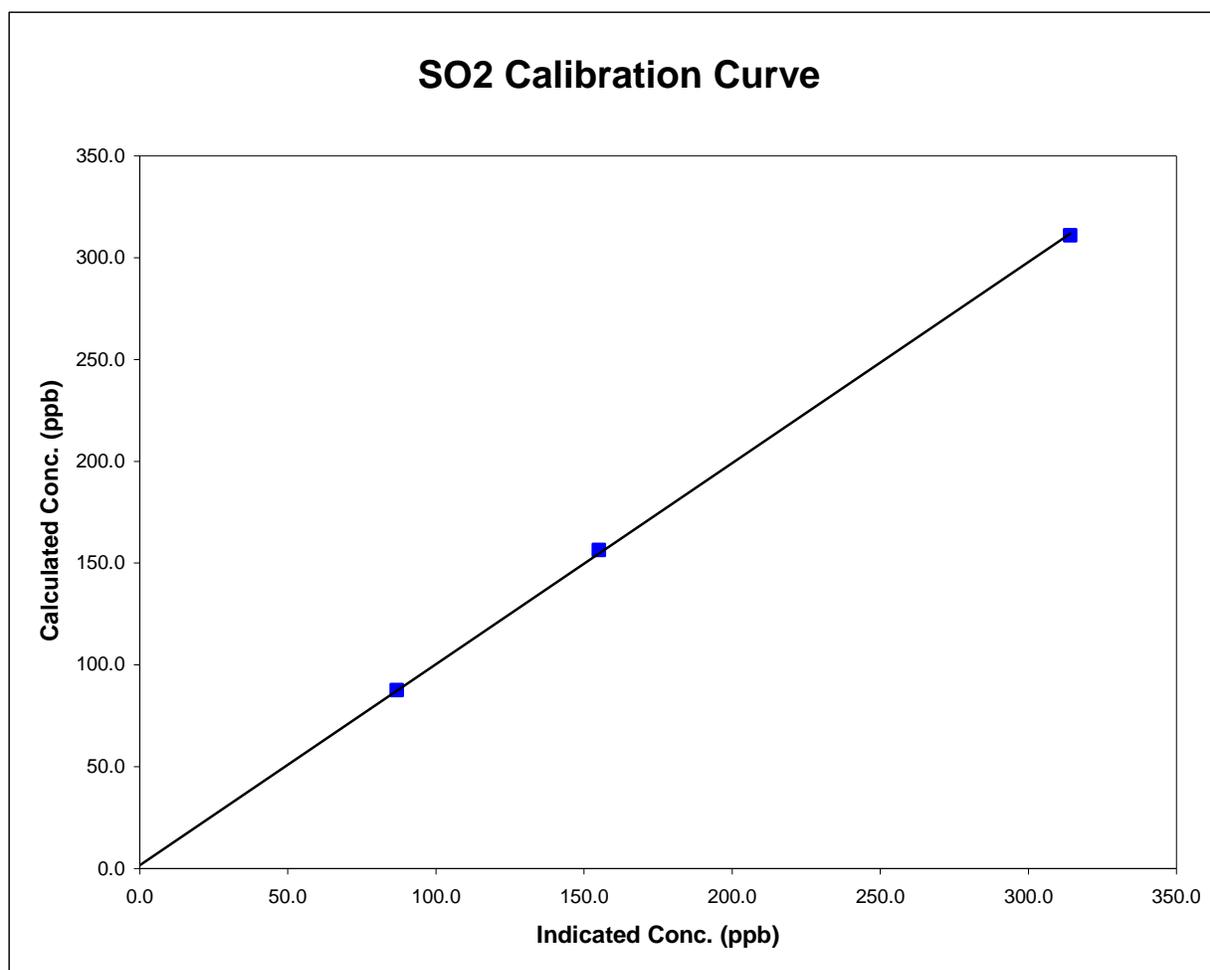
Parameter **SO2**Air Monitoring Network **PASZA**

### Station Information

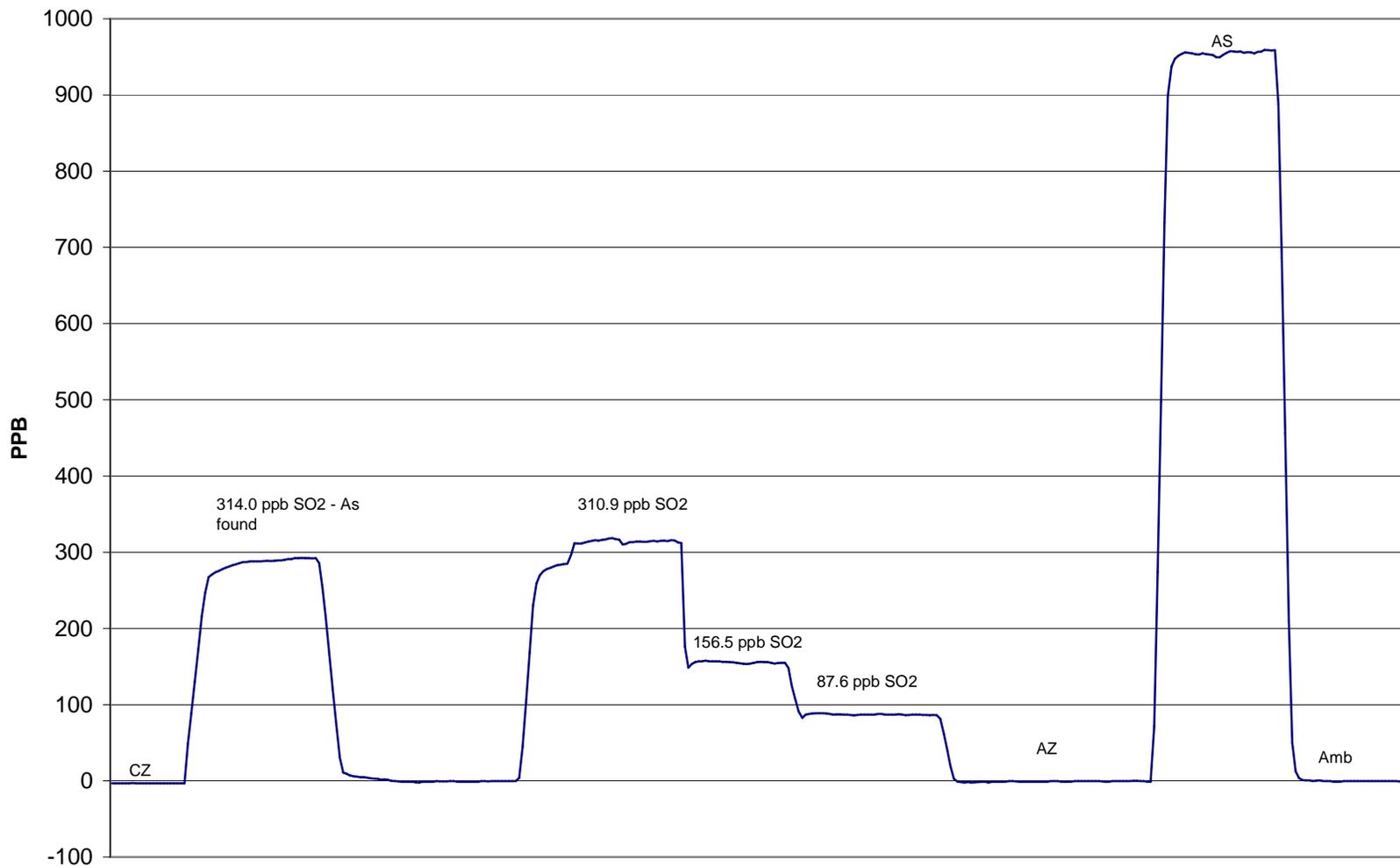
Calibration Date	May 2, 2007	Previous Calibration	April 9, 2007
Station Number	5	Station Location	Valleyview
Start Time (MST)	14:40	End Time (MST)	17:39
Analyzer make/model	Teco 43C	Analyzer serial #	43C-57351-313

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.6	N/A		
310.9	314.2	0.9896	Correlation Coefficient	0.999910
156.4	155.1	1.0085		
87.6	86.8	1.0093	Slope	0.987242
			Intercept	1.643490



### SO2 Calibration



May 2, 2007

**Calibration Report**Parameter **H2S**  
Air Monitoring Network**PASZA****Station Information**

Calibration Date	May 2, 2007	Previous Calibration	April 9, 2007
Station Number	5	Station Location	Valleyview
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	14:40	End Time (MST)	17:39
Barometric Pressure	27.40 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	235 ng/min	Perm-tube Expiry Date	8/8/2006
Correction factor	0.931403	Perm-tube Cert #	T-25214
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
Calculated slope	1.013584	Calculated slope	0.985104
Calculated intercept	0.475782	Calculated intercept	0.315846
Analyzer make	43I	Analyzer serial #	701120010

	before		after	
Concentration range	100	ppb	100	ppb
Background	6.1	ppb	6.1	ppb
coefficient	1.212		1.374	
Lamp Voltage	617	volts	812	volts
Chamber Temp	44.27	Deg C	45	Deg C
Perm oven temp	45		45	
Pressure	638	mm Hg	658.2	mm Hg
Sample Flow	428	ccm	442	ccm
Lamp Intesity	91	%	92	%

**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	2389.0	0.0	0.0	N/A
2565	2389.0	70.7	71.6	0.9875
5100	4750.2	35.6	35.7	0.9956
9100	8475.8	19.9	19.5	1.0230
zero	2365.8	0.0	-0.5	As Found Zero
2540	2365.8	71.4	63.4	As Found Span
Average Correction Factor				1.0020

Calculated value of As Found Response: 65.28 ppm      Percent Change of As Found: 8.6%

	before calibration		after calibration	
Auto zero	0.4	ppm	0.3	ppm
Auto span	77.3	ppm	84.8	ppm

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

## Calibration Summary

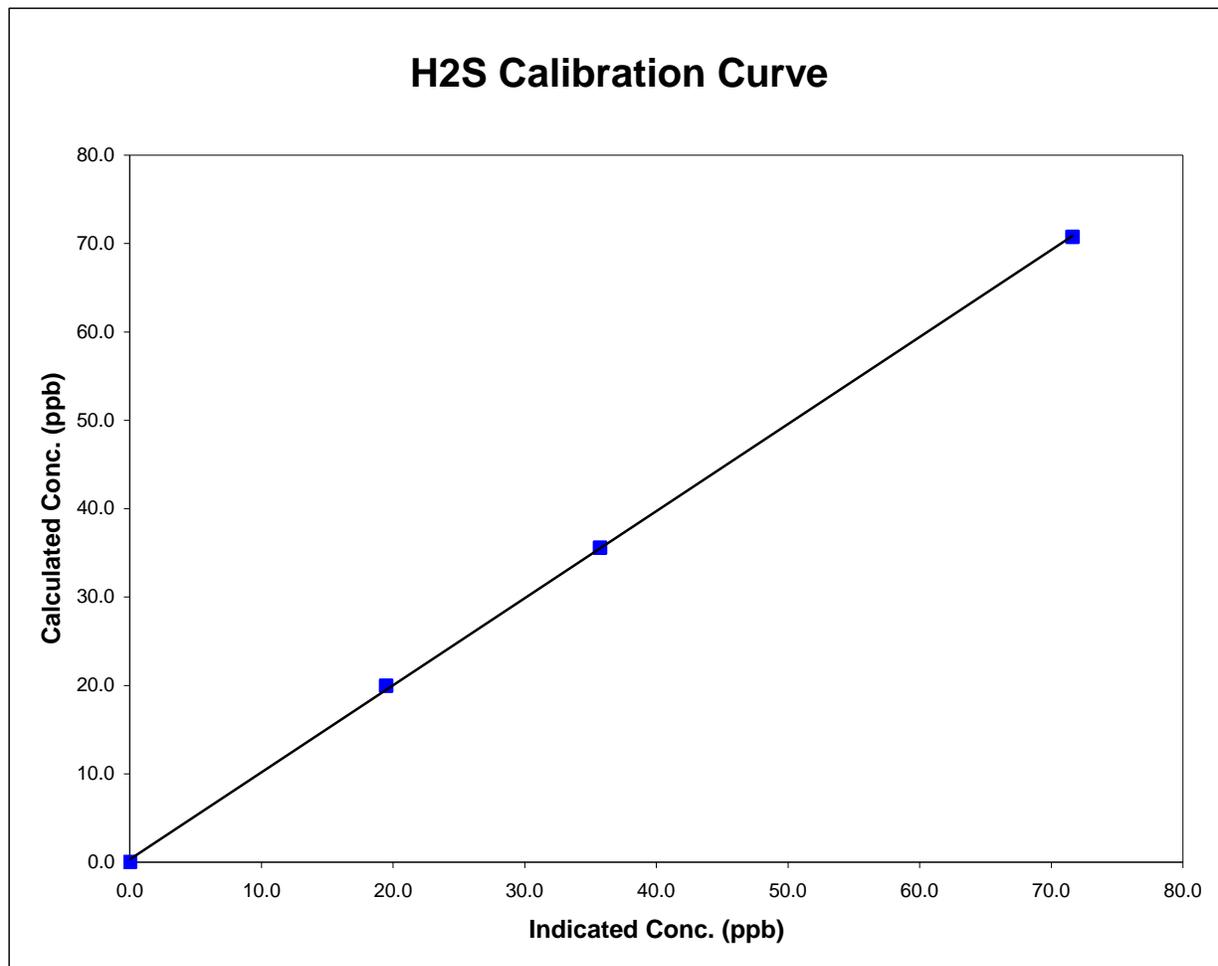
Parameter **H2S**Air Monitoring Network **PASZA**

### Station Information

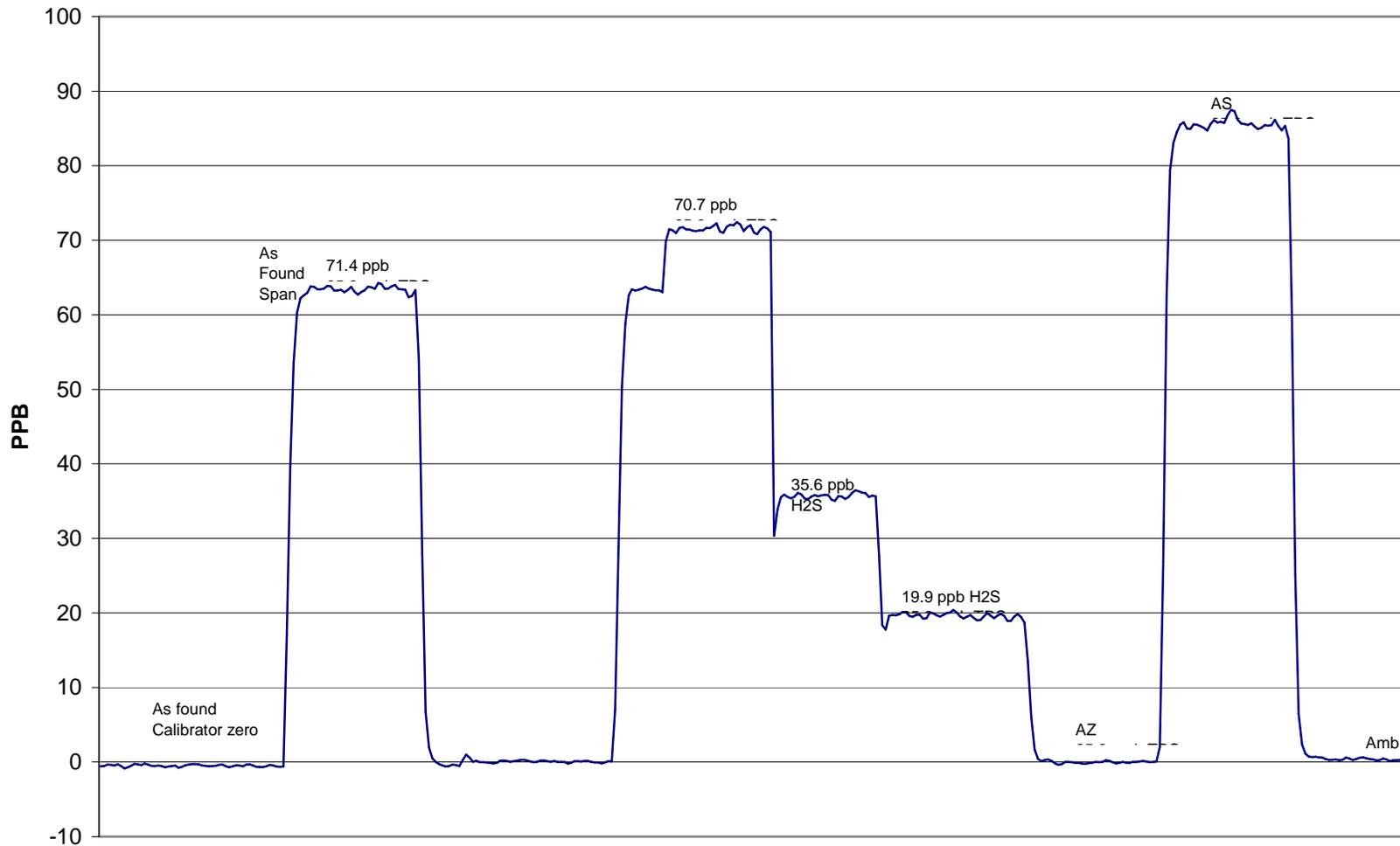
Calibration Date	May 2, 2007	Previous Calibration	April 9, 2007
Station Number	5	Station Location	Valleyview
Start Time (MST)	14:40	End Time (MST)	17:39
Analyzer make/model	43I	Analyzer serial #	701120010

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
70.7	71.6	0.9875	Correlation Coefficient	0.999882
35.6	35.7	0.9956		
19.9	19.5	1.0230	Slope	0.985104
			Intercept	0.315846



### H2S Calibration



May 2, 2007