



Air Quality Monitoring Network for October 2006

Prepared by
FOCUS
 AMBIENT AIR MONITORING

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December 13, 2006

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

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

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

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.

The Valleyview station was commissioned and calibrated on September 25th and 27th, 2006. The start-up calibrations were included in the September, 2006 report; data collection began October 1st, 2006.

During the month of October the following events were noted:

Henry Pirker Station:

- ◆ Wind speed cups appears to have frozen from October 27th to the 30th due to weather changes (temperature dropped with winds out of the West with rain and snow); with a total of forty-eight (48) hours downtime. Wind direction was also frozen during this time, with a total of twelve (12) hours downtime.
- ◆ At the end of October (from the 29th to the 31st) the air conditioner failed at the station, this created a very hot environment in the station which in turn resulted in the analyzers and DACS operating poorly. Twenty-two (22) hours were attributed to excessive baseline drift for all the analyzers (except the TEOM which had twenty-three (23)) and the station was powered down on October 29th at 17:00 and brought back on line October 30th at 12:05 (as temperatures were getting too hot). The air conditioner was repaired in early November.
- ◆ A number of hours of data were invalidated during this time:
 - SO₂, TRS – twenty (20) hours invalid,
 - NO_x, NO₂, NO, O₃, THC, Relative Humidity, Temperature, Solar Radiation, Wind Speed and Wind Direction – nineteen (19) hours,
 - CO – fourteen (14) hours of drift and twenty-nine (29) hours invalid,
 - TEOM – twenty-one (21) hours.
- ◆ All analyzers / sensors at the Henry Pirker station were above 90% uptime.
- ◆ The AQI for the month resulted in 662 hours of Good readings.

Evergreen Park Station:

- ◆ On October 25th at 07:00, a power bar at the station tripped due to a power surge, this resulted in the pumps from the SO₂, TRS and TEOM to fail, which was not discovered until November 1st. This resulted in less than 90% operational performance for all three analyzers for the month of October (AENV reference #179107 (SO₂ and TRS) and reference #178763 (PM_{2.5})).
- ◆ Continue to see high readings of SO₂ with the highest readings corresponding with winds from the west and west-southwest. This is an industrialized area near Grande Prairie which contains a number of industries such as gravel operations, asphalt plant, a landfill, wastewater treatment and oilfield services which may contribute to SO₂. Overall there were no SO₂ readings above Provincial Objectives.
- ◆ The spans on the TRS analyzer were relatively stable, however it was determined that the glass insert in the oven was broken which resulted in the oven not being able to maintain a constant temperature or flow and this situation was fixed on October 17th by replacing the glass insert. After oven temperature stabilized on October 18th the spans were increased and became more stable from the 22nd to the 24th of October.
- ◆ The meteorological sensors (wind speed, wind direction and temperature) at the Smoky Heights station were above 90% uptime

Smoky Heights Station:

- ◆ Wind speed cups appears to have frozen on October 15th to 17th due to weather changes (temperature dropped with winds out of N with rain and snow); with a total of thirty-five (35) hours downtime.
- ◆ The SO₂ analyzer had four hundred and fourteen (414) hours invalidated because the sensitivity dropped due to a failing UV lamp. From October 6th to October 23rd. This resulted in less than 90% operational performance for the analyzer for the month of October (AENV reference #181134).
- ◆ All other analyzers / sensors at the Smoky Heights station were above 90% uptime

Beaverlodge Station:

- ◆ The SO₂ analyzer spans increased throughout the month due to the span system dilution pump failing. The pump diaphragm was changed out on November 1st restoring the appropriate dilution flow.
- ◆ The PM_{2.5} had sixteen (16) hours attributed to excessive baseline drift. The filter was changed out November 21st.
- ◆ All analyzers / sensors at the Beaverlodge station were above 90% uptime.
- ◆ The AQI for the month resulted in 695 hours of Good readings.

Portable - Falher Station:

- ◆ On October 13th TRS readings were observed in exceedence of the provincial objective for H₂S of 10 ppb (Notification report reference # 178361):
 - 05:00 – 25 ppb, winds from the east-northeast.
 - 06:00 – 13 ppb, winds from the east-southeast.
 - 08:00 – 15 ppb, winds from the east.An investigation was performed on the same day by Alberta Environment (Gerald Feschuk) to try and determine the potential source of these readings; however no immediate source could be determined.
- ◆ All analyzers / sensors at the Falher station operated at 100% uptime

Valleyview Station:

- ◆ The SO₂ analyzer reaction cell temperature control circuit failure coupled with station temperature instability resulted in an unstable baseline. The SO₂ internal span system was not functional. Several attempts were made to repair this problem without success. An external TECO 143 span system was installed on October 18th to provide span gas to the SO₂ analyzer. A separate baseboard heater was also installed to help stabilize the station temperature.
- ◆ The SO₂ data was reported to the nearest .01 ppm due to the analyzer noise level and condition of the analyzer. This analyzer will be replaced with a new one early in the New Year.
- ◆ The H₂S analyzer spans steadily decreased throughout the month, due to permeation tube issues. This was resolved in November with a new tube
- ◆ All analyzers / sensors at the Valleyview station were above 90% uptime.

Passive Monitoring: 43 Stations throughout the PASZA zone:

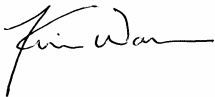
There were two sample sites, Sylvester and Karr Creek, where the passive samples were not retrieved due to road closures. There is no sample result for the NO₂ sample at Boone Creek due to sampler damage.

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

- Monthly average concentrations for SO₂ passives ranged from <0.1 ppb to 0.6 ppb.
- Monthly average concentrations for NO₂ passives ranged from 0.6 ppb to 9.5 ppb.
- Monthly average concentrations for O₃ passives ranged from 15.6 ppb to 46.7 ppb.

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

On Behalf of the,
Peace Airshed Zone Association



Kevin Warren
PASZA Technical Program Manager



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



October 20, 2006

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

RE: PASZA Air Monitoring Directive Notification Report Ref # 178361

An elevated reading of Total Reduced Sulphur (TRS) was reported by Focus to Alberta Environment (AENV) on behalf of the Peace Airshed Zone Association (PASZA). The elevated readings of TRS were observed at the Falher Station, which is a new station in the PASZA Airshed zone. The elevated readings are listed below. It should be noted that there is no provincial objective for TRS and did not require reporting, however for our due diligence we have reported the incident to the appropriate personal. An investigation was conducted by Alberta Environment in Grande Prairie (Gerald Feschuk), and based on his findings there were no notable sources observed in the area. This incident was assigned AENV reference number 178361.

Station Id: 6 Location: FALHER Parameter: TRS Avg Value: 23.8 ppb Date/Time: Oct 13 2006 05:00
Station Id: 6 Location: FALHER Parameter: TRS Avg Value: 12.4 ppb Date/Time: Oct 13 2006 06:00
Station Id: 6 Location: FALHER Parameter: TRS Avg Value: 14.7 ppb Date/Time: Oct 13 2006 08:00

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

Sincerely,

THE FOCUS CORPORATION

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

Gary Cross
AQM Technical Manager



November 1, 2006

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

RE: PASZA Air Monitoring Directive Non-compliance Report Ref # 179107

A non-compliance of the Alberta Air Monitoring Directive was recently reported by Focus to Alberta Environment (AENV) on behalf of the Peace Airshed Zone Association (PASZA). The non-compliance was less than ninety (90%) percent uptime for the month of October 2006 for the SO₂ and TRS analyzers at Evergreen Park (located SE of Grande Prairie). The analyzers will be flagged out of service from October 25th at 7:00 MST until November 1st.

The data indicated loss of daily span control. Other issues within the zone were given priority as they were also relevant to data loss; it was anticipated that the Data System at the Evergreen Park station had stopped triggering the relays but no data loss was anticipated. Upon investigation it was discovered that the power bar utilized for the sampling pumps had tripped and failed. This power bar will be replaced soon. The non-compliance has been assigned AENV reference number 179107.

Long term solutions to this problem; the amount of trailers and equipment operating within the zone has substantially increased in the last half of 2006. It is anticipated our technician in the area will respond to most issues, however further coverage will be investigated by an additional back-up person within Focus to help coverage of equipment issues should problems arise during busy periods. We are currently investigating potential staff members to fulfill this role.

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

Sincerely,

THE FOCUS CORPORATION

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

Kelly Baragar, C.T.
AQM Supervisor



November 27, 2006

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

RE: PASZA Air Monitoring Directive Non-compliance Report Ref # 178763

A non-compliance of the Alberta Air Monitoring Directive was recently reported by Focus to Alberta Environment (AENV) on behalf of the Peace Airshed Zone Association (PASZA). The non-compliance was less than ninety (90%) percent uptime for the month of October 2006 for the TEOM (PM_{2.5}) analyzer at Evergreen Park (located SE of Grande Prairie). The analyzer will be flagged out of service from October 25th at 7:00 MST until November 1st.

The QA/QC process of the data revealed that the analyzer was not responding properly. This is the same scenario in which the SO₂ and TRS analyzers were also non-compliance (Reference # 179107) for the month of October. Upon investigation it was discovered that the power bar utilized for the sampling pump had tripped a breaker and failed. This power bar will be replaced soon. The non-compliance has been assigned AENV reference number 178673.

Long term solutions to this problem; the amount of trailers and equipment operating within the zone has substantially increased in the last half of 2006. It is anticipated our technician in the area will respond to most issues, however further coverage will be investigated by an additional back-up person within Focus to help coverage of equipment issues should problems arise during busy periods. We are currently investigating potential staff members to fulfill this role.

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

Sincerely,

THE FOCUS CORPORATION

A handwritten signature in black ink that reads 'Sharon E. Whiteley'.

Sharon Whiteley, B.Sc.
AQM Data Specialist



December 14, 2006

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

RE: PASZA Air Monitoring Directive Non-compliance Report Ref # 181134

A non-compliance of the Alberta Air Monitoring Directive was recently reported by FOCUS to Alberta Environment (AENV) on behalf of the Peace Airshed Zone Association (PASZA). The non-compliance was less than ninety (90%) percent uptime for the month of October 2006 for the SO₂ analyzer (API 102A). This situation occurred at the Smoky Heights station located NE of Teepee Creek. The sensitivity dropped due to a failing UV lamp in the SO₂ analyzer from October 6th to October 23rd. The data for this period was flagged out during the QA/QC process for the monthly report (414 hours were invalidated). This station is owned by PASZA and operated on their behalf by FOCUS. The non-compliance has been assigned AENV reference number 181134.

This SO₂ analyzer is to be replaced early in 2007.

If there are any questions or concerns please call Sharon Whiteley or Gary Cross at your convenience at (403) 269-2252.

Sincerely,

THE FOCUS CORPORATION

A handwritten signature in black ink that reads 'Sharon Whiteley'.

Sharon Whiteley
AQM Data Specialist

PASZA Monthly Continuous Data Summary

Oct-2006 Peace Airshed Zone Association							Maximum Recorded Values						Operational Time (%)
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		1-hr				24-hr / 8-hr		
	1-hr	24-hr			1-hr	24-hr	Conc	Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	
SO2 (ppb)	172	57	Henry Pirker	0.2	0	0	2.7	Oct-21 14:00	10.9	E	0.6	Oct-12	94.4%
SO2 (ppb)	172	57	Evergreen Park	1.1	0	0	57.5	Oct-01 11:00	18.1	W	6.0	Oct-01	78.4%
SO2 (ppb)	172	57	Smoky Heights	0.6	0	0	7.9	Oct-03 05:00	6.6	SSW	2.5	Oct-03	44.4%
SO2 (ppb)	172	57	Beaverlodge	0.3	0	0	1.8	Oct-30 19:00	9.2	WNW	0.8	Oct-12	100.0%
SO2 (ppb)	172	57	Portable-Fahler	0.1	0	0	1.6	Oct-18 04:00	5.2	SSE	0.5	Oct-30	100.0%
SO2 (ppm)	0.172	0.057	Valleyview	0.00	0	0	0.02	Oct-01 02:00	13.1	WNW	0.01	Oct-01	99.9%
NO (ppb)			Henry Pirker	10.6	-	-	165.5	Oct-12 08:00	6.3	NW	34.0	Oct-22	94.5%
NO2 (ppb)	212	106	Henry Pirker	10.8	0	0	45.1	Oct-31 17:00	6.2	NW	15.4	Oct-04	94.5%
NOX (ppb)			Henry Pirker	21.4	-	-	187.7	Oct-12 08:00	6.3	NW	46.9	Oct-22	94.5%
NO (ppb)			Beaverlodge	0.6	-	-	19.5	Oct-13 09:00	4.4	WNW	2.9	Oct-14	100.0%
NO2 (ppb)	212	106	Beaverlodge	3.7	0	0	19.9	Oct-30 17:00	3.6	NW	7.2	Oct-14	100.0%
NOX (ppb)			Beaverlodge	4.3	-	-	28.3	Oct-13 09:00	4.4	WNW	10.0	Oct-14	100.0%
O3 (ppb)	82		Henry Pirker	15.6	0	-	38.0	Oct-09 15:00	25.2	W	28.4	Oct-28	94.5%
O3 (ppb) - 8-hr		65	Henry Pirker			0					34.0	Oct-29	
O3 (ppb)	82		Beaverlodge	25.1	0	-	40.7	Oct-22 19:00	26.6	W	35.1	Oct-28	100.0%
O3 (ppb) - 8-hr		65	Beaverlodge			0					38.1	Oct-28	
O3 (ppb)	82		Portable-Fahler	20.4	0	-	38.5	Oct-24 14:00	16.9	WSW	31.7	Oct-26	100.0%
O3 (ppb) - 8-hr		65	Portable-Fahler			0					35.7	Oct-26	
CO (ppm)	13		Henry Pirker	0.17	0	-	1.1	Oct-03 20:00	3.7	SE	0.4	Oct-22	93.7%
CO (ppm) - 8-hr		5	Henry Pirker			0					0.6	Oct-19	
THC (ppm)			Henry Pirker	2.08	-	-	3.1	Oct-12 07:00	5.4	N	2.4	Oct-22	94.4%
TRS (ppb)			Henry Pirker	0.2	-	-	0.8	Oct-12 08:00	6.3	NW	0.3	Oct-12	94.4%
TRS (ppb)			Evergreen Park	0.5	-	-	2.0	Oct-19 12:00	4.4	SSE	0.7	Oct-15	78.4%
TRS (ppb)			Smoky Heights	0.3	-	-	1.1	Oct-13 18:00	9.2	NNE	0.5	Oct-31	100.0%
TRS (ppb)			Portable-Fahler	0.4	-	-	25.2	Oct-13 05:00	4.3	E	3.3	Oct-13	100.0%
H2S (ppb)	10	3	Valleyview	1.6	0	0	19.5	Oct-01 02:00	13.1	WNW	6.0	Oct-01	99.9%
PM2.5 (µg/m3)		30 a	Henry Pirker	3.9	0	0	28.7	Oct-03 22:00	3.7	WNW	9.2	Oct-22	94.1%
PM2.5 (µg/m3)		30 a	Evergreen Park	3.9	0	0	29.6	Oct-04 16:00	14.6	WSW	7.8	Oct-12	78.2%
PM2.5 (µg/m3)		30 a	Smoky Heights	2.7	0	0	52.5	Oct-20 17:00	4.4	W	7.8	Oct-13	99.9%
PM2.5 (µg/m3)		30 a	Beaverlodge	2.7	0	0	16.0	Oct-16 18:00	5.8	NNW	6.6	Oct-13	97.8%

PASZA Monthly Continuous Data Summary - continued

Oct-2006 Peace Airshed Zone Association							Maximum Recorded Values					
							1-hr			24-hr / 8-hr		
RH (%)		Henry Pirker	69.0	-	-	-	-	-	-	-	-	97.4%
RH (%)		Beaverlodge	65.4	-	-	-	-	-	-	-	-	100.0%
RH (%)		Portable-Fahler	73.4	-	-	-	-	-	-	-	-	100.0%
RH (%)		Valleyview	70.1	-	-	-	-	-	-	-	-	99.7%
SR (W/m2)		Henry Pirker	72.0	-	-	-	-	-	-	-	-	97.4%
Temp (°C)		Henry Pirker	3.5	-	-	-	-	-	-	-	-	97.4%
Temp (°C)		Evergreen Park	2.7	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Smoky Heights	2.4	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Beaverlodge	3.5	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Portable-Fahler	0.8	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Valleyview	1.8	-	-	-	-	-	-	-	-	99.7%
WSPD v (km/hr)		Henry Pirker	10.2	-	-	36.5	Oct-26 14:00	36.5	WSW	21.5	Oct-26	91.0%
WSPD v (km/hr)		Evergreen Park	7.0	-	-	32.4	Oct-26 13:00	32.4	W	18.5	Oct-26	100.0%
WSPD v (km/hr)		Smoky Heights	12.1	-	-	40.6	Oct-25 13:00	40.6	SW	28.6	Oct-26	95.3%
WSPD v (km/hr)		Beaverlodge	7.9	-	-	35.7	Oct-26 12:00	35.7	W	17.8	Oct-26	100.0%
WSPD v (km/hr)		Portable-Fahler	10.8	-	-	33.6	Oct-26 12:00	33.6	WNW	20.9	Oct-26	100.0%
WSPD v (km/hr)		Valleyview	6.6	-	-	34.4	Oct-28 08:00	34.4	N	17.0	Oct-26	99.7%
WSPD s (km/hr)		Henry Pirker	10.9	-	-	36.9	Oct-26 14:00	36.9	WSW	22.1	Oct-26	91.0%
WSPD s (km/hr)		Evergreen Park	7.4	-	-	32.7	Oct-26 13:00	32.7	W	18.8	Oct-26	100.0%
WSPD s (km/hr)		Smoky Heights	12.4	-	-	40.9	Oct-26 13:00	40.9	WSW	28.8	Oct-26	95.3%
WSPD s (km/hr)		Beaverlodge	8.1	-	-	35.9	Oct-26 12:00	35.9	W	19.0	Oct-26	100.0%
WSPD s (km/hr)		Portable-Fahler	11.0	-	-	33.7	Oct-26 12:00	33.7	WNW	21.5	Oct-26	100.0%
WSPD s (km/hr)		Valleyview	6.9	-	-	34.5	Oct-28 08:00	34.5	N	17.5	Oct-26	99.7%
WDIR		Henry Pirker	W	-	-	-	-	-	-	-	-	95.8%
WDIR		Evergreen Park	W	-	-	-	-	-	-	-	-	100.0%
WDIR		Smoky Heights	WSW	-	-	-	-	-	-	-	-	100.0%
WDIR		Beaverlodge	WNW	-	-	-	-	-	-	-	-	100.0%
WDIR		Portable-Fahler	WSW	-	-	-	-	-	-	-	-	100.0%
WDIR		Valleyview	WNW	-	-	-	-	-	-	-	-	99.7%

Note: ^a the draft 24-hr Alberta Ambient Air Quality Objective

Continuous Network Equipment Summary

PASZA – Henry Pirker Station

General Station Issues

Calibrations were performed on October 5th (SO₂, TRS & CO), October 24th (NO_x) and October 26th (THC, O₃ and TEOM). The air conditioner unit failed October 29th and was inspected and tested on October 31st.

Parameter	Make	Model	Notes
SO ₂	TECO	43	Due to a/c failure twenty (20) hours of data were invalidated and twenty-two (22) hours were attributed to excessive baseline drift.
NOx/NO/NO ₂	TECO	42C	Due to a/c failure nineteen (19) hours of data were invalidated and twenty-two (22) hours were attributed to excessive baseline drift.
O ₃	API	400	Due to a/c failure nineteen (19) hours of data were invalidated and twenty-two (22) hours were attributed to excessive baseline drift.
CO	TECO	48C	Due to a/c failure twenty-nine (29) hours of data were invalidated and twenty-two (22) hours were attributed to excessive baseline drift.
THC	TEI	51-CLT	Due to a/c failure nineteen (19) hours of data was invalidated and twenty-two (22) hours were attributed to excessive baseline drift.
TRS	TEI	42C	Due to a/c failure twenty-nine (29) hours of data were invalidated and twenty-two (22) hours were attributed to excessive baseline drift.
PM _{2.5}	R&P	1400AB	Due to a/c failure forty-four (44) hours of data was invalidated.
RH	Met One	083D	Due to a/c failure nineteen (19) hours of data was invalidated.
AT	Met One	083D	Due to a/c failure nineteen (19) hours of data was invalidated.
SR	Met One	096-1	Due to a/c failure nineteen (19) hours of data was invalidated.
WS	Met One	010C	Wind cups frozen on October 27 th to 30 th with a total of forty-eight (48) hours of downtime. Due to a/c failure nineteen (19) hours of data was invalidated.
WD	Met One	020C	Wind cups frozen on October 29 th to 30 th with a total of twelve (12) hours of downtime. Due to a/c failure nineteen (19) hours of data was invalidated.

PASZA – Evergreen Park Station

General Station Issues

Calibrations were performed on October 17th (TRS, TEOM, SO₂).

Parameter	Make	Model	Notes
SO ₂	API	100	On October 25 th at 07:00, a power bar at the station tripped due to a power surge, this resulted in the pump failing, a total of one hundred and sixty-one (161) hours were invalidated. (AENV reference #179107).
TRS	TEI	42C	The spans on the TRS analyzer were very unstable due a broken glass permeation chamber (this situation was fixed on October 17 th). On October 25 th at 07:00, a power bar at the station tripped due to a power surge resulting in the pump failure. A total of one hundred and sixty-one (161) hours of data was invalidated (AENV reference #179107).
PM _{2.5}	R&P	1400AB	One (1) hour was removed due to baseline drift. On October 25 th at 07:00, a power bar at the station tripped due to a power surge resulting in the pump failure. A total of one hundred and sixty-one (161) hours of data was invalidated (AENV reference #178673).
AT	Met One	083D	No operational problems observed.
WS	Met One	010C	No operational problems observed.
WD	Met One	020C	No operational problems observed.

PASZA – Smoky Heights Station

General Station Issues

A calibration was performed on October 3rd to peak the UV Hg lamp (SO₂). Routine calibrations were performed on October 23rd (SO₂, TRS and PM_{2.5}).

Parameter	Make	Model	Notes
SO ₂	API	100A	SO ₂ sensitivity dropped due to UV lamp failure from Oct. 6 th to 23 rd . Four hundred and fourteen (414) hours were invalidated. (AENV reference # 181134).
TRS	TEI	42C	No operational problems observed.
PM _{2.5}	R&P	1400AB	One (1) hour was removed due to baseline drift.
AT	Met One	083D	No operational problems observed.
WS	Met One	010C	Wind cups frozen on October 15 th to 17 th with a total of thirty-five (35) hours of downtime.
WD	Met One	020C	No operational problems observed.

PASZA – Beaverlodge Station

General Station Issues

Calibrations were performed on October 16th (NO_x, SO₂, O₃ and PM_{2.5}).

Parameter	Make	Model	Notes
SO ₂	TECO	43CTL	SO ₂ spans steadily increase to end of month. The span system pump diaphragm was changed out November 1 st .
NOx/NO/NO ₂	TECO	42C	No operational problems observed.
O ₃	API	400	No operational problems observed.
PM _{2.5}	R&P	1400AB	Sixteen (16) hours were removed due to baseline drift.
AT	n/a	n/a	No operational problems observed.
RH	n/a	n/a	No operational problems observed.
WS	Blue Sky	857	No operational problems observed. Eight (8) hours of calm were observed.
WD	Blue Sky	857	No operational problems observed.

PASZA – Falher (Portable) Station

General Station Issues

Calibrations were performed on October 3rd (SO₂, TRS and O₃).

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational problems observed.
TRS	TEI	43C	No operational problems observed.
O ₃	TEI	49C	No operational problems observed.
AT	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

Station was commissioned on September 25th and start up calibrations were performed on September 27th (SO₂, and H₂S). Data collection began October 1st. Routine monthly calibration was performed on October 13th (SO₂, and H₂S). Maintenance on DACS was performed on October 13th.

Parameter	Make	Model	Notes
SO ₂	ML	332	A new perm tube installed. Maintenance on October 18 th – a TECO 143 unit installed for spans.
H ₂ S	TEI	43C	Spans steadily decreasing to end of month, due to perm tube issues.
AT	Gill Met Pak 3		Two (2) hours of maintenance on October 13 th . No operational problems observed.
RH	Gill Met Pak 3		Two (2) hours of maintenance on October 13 th . No operational problems observed.
WS	Gill Met Pak 3		Two (2) hours of maintenance on October 13 th . No operational problems observed.
WD	Gill Met Pak 3		Two (2) hours of maintenance on October 13 th . 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: October 1, 2006 to November 1, 2006

Alberta's Air Quality Index

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

Summary

Number of 1-hr Good Readings:	662
Number of 1-hr Fair Readings:	0
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-Oct-06	15	14	14	12	12	11	10	9	11	12	N	15	15	16	16	16	15	14	11	9	9	9	8	
2-Oct-06	8	8	8	5	7	5	5	5	4	N	11	12	14	15	16	16	16	15	6	8	6	7	10	7
3-Oct-06	4	4	3	3	3	4	6	9	N	5	5	8	10	11	13	14	14	13	7	15	18	21	24	20
4-Oct-06	10	5	3	6	4	4	5	N	6	5	7	9	9	12	14	15	15	13	10	8	6	12	14	9
5-Oct-06	7	10	7	6	6	6	N	11	13	13	18	N	N	N	N	10	10	10	7	10	12	12	10	12
6-Oct-06	12	9	6	8	8	N	6	5	6	4	8	12	14	16	17	18	17	15	13	12	10	11	8	
7-Oct-06	8	7	7	7	N	4	4	4	4	7	10	13	14	15	16	16	16	13	11	13	17	18	19	9
8-Oct-06	6	5	6	N	4	3	4	7	5	4	6	8	11	13	14	15	15	13	6	10	12	15	12	6
9-Oct-06	6	4	N	5	4	4	4	5	5	5	6	10	15	18	19	19	18	16	12	12	13	13	12	13
10-Oct-06	12	N	13	13	10	5	15	6	11	7	8	12	14	15	15	14	13	11	10	10	9	10	9	
11-Oct-06	N	8	7	4	3	3	6	5	5	4	4	5	5	6	7	7	6	5	9	13	14	12	13	N
12-Oct-06	9	7	6	5	6	7	8	12	17	10	7	6	8	8	6	7	6	5	7	5	5	7	N	4
13-Oct-06	5	4	4	4	4	4	7	8	7	7	6	5	7	8	9	9	8	6	4	5	6	N	6	7
14-Oct-06	6	4	6	6	3	3	3	3	4	4	4	5	5	4	4	4	5	5	6	5	N	4	3	3
15-Oct-06	2	2	2	2	2	2	2	2	2	3	3	4	4	5	4	5	4	4	4	N	3	4	5	7
16-Oct-06	8	8	9	9	10	10	9	8	9	9	9	10	10	10	11	10	10	11	N	13	13	14	13	14
17-Oct-06	14	14	13	12	8	4	6	5	4	4	6	8	10	10	11	9	10	N	9	6	13	15	15	12
18-Oct-06	10	4	5	5	6	9	4	5	6	6	6	9	14	14	13	11	N	6	8	9	8	8	8	8
19-Oct-06	8	6	7	5	5	4	5	4	6	9	11	12	6	7	8	N	12	12	15	14	12	11	11	10
20-Oct-06	10	10	10	11	9	3	5	5	5	4	11	12	14	16	N	17	15	8	13	17	6	3	4	3
21-Oct-06	3	3	3	3	3	3	4	8	10	11	5	7	7	N	10	11	11	5	5	3	3	3	5	3
22-Oct-06	2	2	8	7	6	7	6	8	10	9	11	13	N	11	11	10	15	15	9	10	17	17	16	15
23-Oct-06	13	13	13	13	13	11	5	7	6	7	12	N	16	14	13	10	7	11	6	6	6	7	11	12
24-Oct-06	14	13	13	12	8	4	5	6	13	18	N	10	8	14	16	13	13	11	6	13	12	8	12	13
25-Oct-06	12	12	13	12	11	N	10	5	7	9	13	16	17	16	15	14	14	14	12	15	16	17	16	13
26-Oct-06	15	18	18	15	N	12	10	12	7	13	16	17	N	N	N	18	16	12	10	12	13	12	12	13
27-Oct-06	11	12	10	11	13	N	6	6	6	5	5	9	13	11	11	11	15	10	11	9	10	12	13	13
28-Oct-06	15	16	16	16	N	15	14	13	12	14	16	16	14	13	14	14	13	13	13	13	12	13	14	14
29-Oct-06	14	13	11	N	10	11	13	12	13	14	14	15	15	16	17	16	18	17	N	N	N	N	N	N
30-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	13	11	8	11	N	10	9	9	9	8

PASZA - Henry Pirker - Sulphur Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

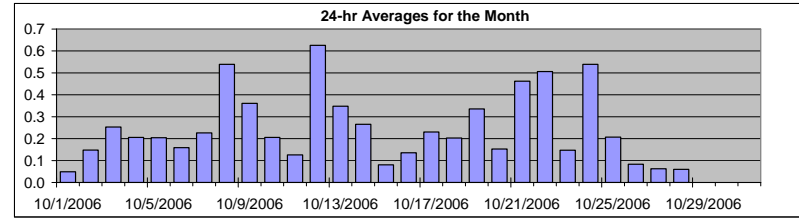
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Summary				
Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	2.7 ppb	21-Oct	14:00	15:00
Maximum 24-hr Average:	0.6 ppb	12-Oct		



AIC Time:	33 hrs	Operational Time:	666 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	94.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.3	0.8	0.3	0.2	0.1	0.0	0.0	0.2 ppb	0.2 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	24:00	
1-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
2-Oct-06	1:00	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	0.4
3-Oct-06	2:00	0	0	0	0	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0.3	1.0	
4-Oct-06	3:00	0	0	0	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0.2	0.7	
5-Oct-06	4:00	0	0	0	0	0	1	A	1	1	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0.2	0.8	
6-Oct-06	5:00	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	0.2	0.4	
7-Oct-06	6:00	0	0	0	0	A	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0.2	0.7	
8-Oct-06	7:00	0	0	0	A	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	0	1	1	1	1	1	0.5	1.3	
9-Oct-06	8:00	0	0	A	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.4	1.0	
10-Oct-06	9:00	0	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9	
11-Oct-06	10:00	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.4	
12-Oct-06	11:00	0	0	0	0	0	0	0	1	1	1	1	2	1	1	1	1	1	1	0	0	0	0	A	0	0	0.6	1.5	
13-Oct-06	12:00	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	A	0	0	0	0.3	0.8	
14-Oct-06	13:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.5	
15-Oct-06	14:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.2	
16-Oct-06	15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.2	
17-Oct-06	16:00	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	A	0	0	0	0	0	0	0	0.2	0.8	
18-Oct-06	17:00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	A	1	0	0	0	0	0	0	0	0.2	0.6	
19-Oct-06	18:00	0	0	0	0	0	0	0	0	1	1	1	0	1	1	A	0	0	0	0	0	0	0	0	0	0	0.3	0.9	
20-Oct-06	19:00	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	0.2	0.5	
21-Oct-06	20:00	0	0	0	0	0	0	0	0	0	1	0	1	1	A	3	1	1	0	0	0	0	0	0	0	0	0.5	2.7	
22-Oct-06	21:00	0	0	0	1	0	1	1	1	1	1	1	1	A	1	1	1	1	1	0	0	0	0	0	0	0	0.5	1.0	
23-Oct-06	22:00	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	0.4	
24-Oct-06	23:00	0	1	1	1	1	0	0	0	1	1	A	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0.5	2.1	
25-Oct-06	0:00	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	0.2	0.3	
26-Oct-06	1:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
27-Oct-06	2:00	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	0.2	
28-Oct-06	3:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
29-Oct-06	4:00	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	D	D	D	D	D	N	0.9	
30-Oct-06	5:00	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	N	N	N	N	N	N	N	N	N	-
31-Oct-06	6:00	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0	0	0	0	0	0	A	0	0	0	0	0	N	0.0
Hourly Avg		0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.3	0.3	0.5	0.4	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1			
Hourly Max		0.5	0.9	1.1	0.6	0.6	0.6	0.9	0.9	1.4	1.0	1.1	2.1	1.4	1.2	2.7	1.3	0.7	0.6	0.5	1.0	1.2	1.1	0.8	0.6				

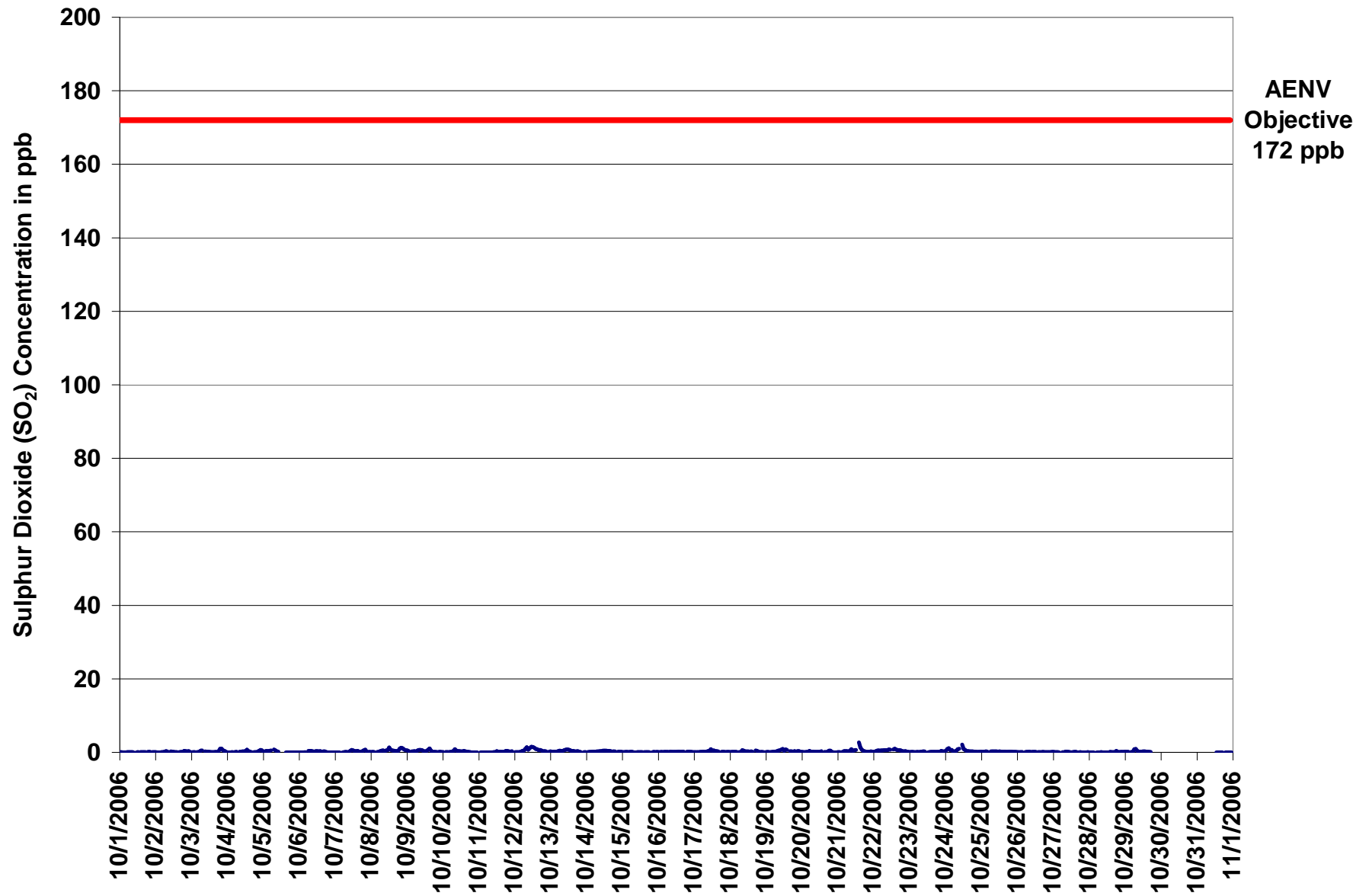


Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

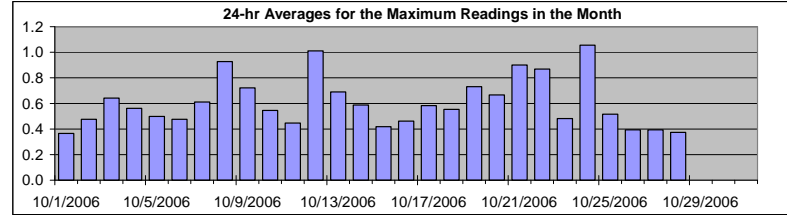
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	4.3	ppb	24-Oct	11:00 12:00
Maximum 24-hr Value:	1.1	ppb	24-Oct	



AIC Time:	33 hrs	Operational Time:	666 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	94.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.0	1.2	0.7	0.5	0.4	0.2	0.0	0.6 ppb	0.5 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-Oct-06	0	0	0	0	0	0	0	1	1	0	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.4	0.6
2-Oct-06	0	0	0	0	0	0	1	1	1	A	1	1	0	1	0	0	0	1	0	1	1	1	1	0	0	0.5	0.8
3-Oct-06	0	0	0	0	0	0	1	1	A	1	1	1	0	0	0	1	0	1	1	2	1	1	1	1	0.6	1.6	
4-Oct-06	0	0	0	0	1	1	0	A	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	0.6	1.2	
5-Oct-06	0	1	1	1	1	1	A	1	1	1	1	0	C	C	A	0	0	0	0	0	0	0	0	0	0.5	1.3	
6-Oct-06	0	0	0	0	0	A	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0.5	0.9	
7-Oct-06	0	0	0	0	A	0	0	1	1	0	1	1	1	1	1	1	0	0	1	1	1	1	0	0	0.6	1.1	
8-Oct-06	0	0	0	A	0	0	1	1	1	1	1	1	2	1	1	1	1	1	1	1	2	2	2	1	0.9	1.9	
9-Oct-06	1	1	A	0	0	1	1	1	1	1	1	1	1	1	1	2	1	0	0	0	0	0	1	0	0.7	1.8	
10-Oct-06	0	A	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0.5	1.2	
11-Oct-06	A	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	0	1	1	1	0	1	A	0.4	0.9	
12-Oct-06	0	0	0	0	1	1	1	1	1	2	1	2	2	2	2	1	1	1	1	1	1	1	1	A	1	1.0	2.0
13-Oct-06	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	A	1	0	0.7	1.1	
14-Oct-06	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	A	0	0	0	0.6	0.9	
15-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	1	0.4	0.8	
16-Oct-06	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	A	1	0	0	0	0	0.5	0.7	
17-Oct-06	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	A	0	1	1	0	0	0	0.6	1.3	
18-Oct-06	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	A	1	1	1	0	1	0	0	0.6	1.0
19-Oct-06	0	1	0	0	0	0	1	1	1	1	1	1	1	2	1	A	1	1	1	1	0	1	1	0	0.7	1.6	
20-Oct-06	1	0	0	0	0	1	1	1	1	0	0	1	0	0	1	A	0	1	0	4	1	1	0	0	0.7	3.9	
21-Oct-06	1	0	0	0	1	1	1	1	1	1	1	1	1	1	A	4	2	2	1	1	1	0	1	1	0.9	3.7	
22-Oct-06	0	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0	0	0.9	1.4	
23-Oct-06	0	0	1	0	0	0	0	0	0	1	1	A	0	0	0	0	1	0	0	1	0	1	1	1	0.5	0.8	
24-Oct-06	1	2	2	1	1	0	1	1	1	1	A	4	1	1	1	1	1	1	1	1	1	1	0	1	1.1	4.3	
25-Oct-06	1	0	0	1	0	A	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	0	0	0	0.5	0.6	
26-Oct-06	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	
27-Oct-06	0	0	0	0	0	A	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.4	0.5	
28-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.4	0.8	
29-Oct-06	0	0	1	A	0	0	2	1	1	1	0	0	1	1	1	0	0	0	D	D	D	D	D	D	N	1.8	
30-Oct-06	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	N	N	N	N	N	N	-	
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0	0	0	0	A	0	0	0	0	N	0.0	
Hourly Avg	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.7	0.7	0.7	0.9	0.7	0.7	0.8	0.6	0.6	0.5	0.7	0.6	0.6	0.5	0.5	0.4			
Hourly Max	0.8	2.3	1.7	1.1	1.1	1.2	1.8	1.3	1.9	1.3	1.6	4.3	2.0	1.7	3.7	2.1	1.7	1.0	3.9	1.6	1.6	1.6	1.2	1.0			

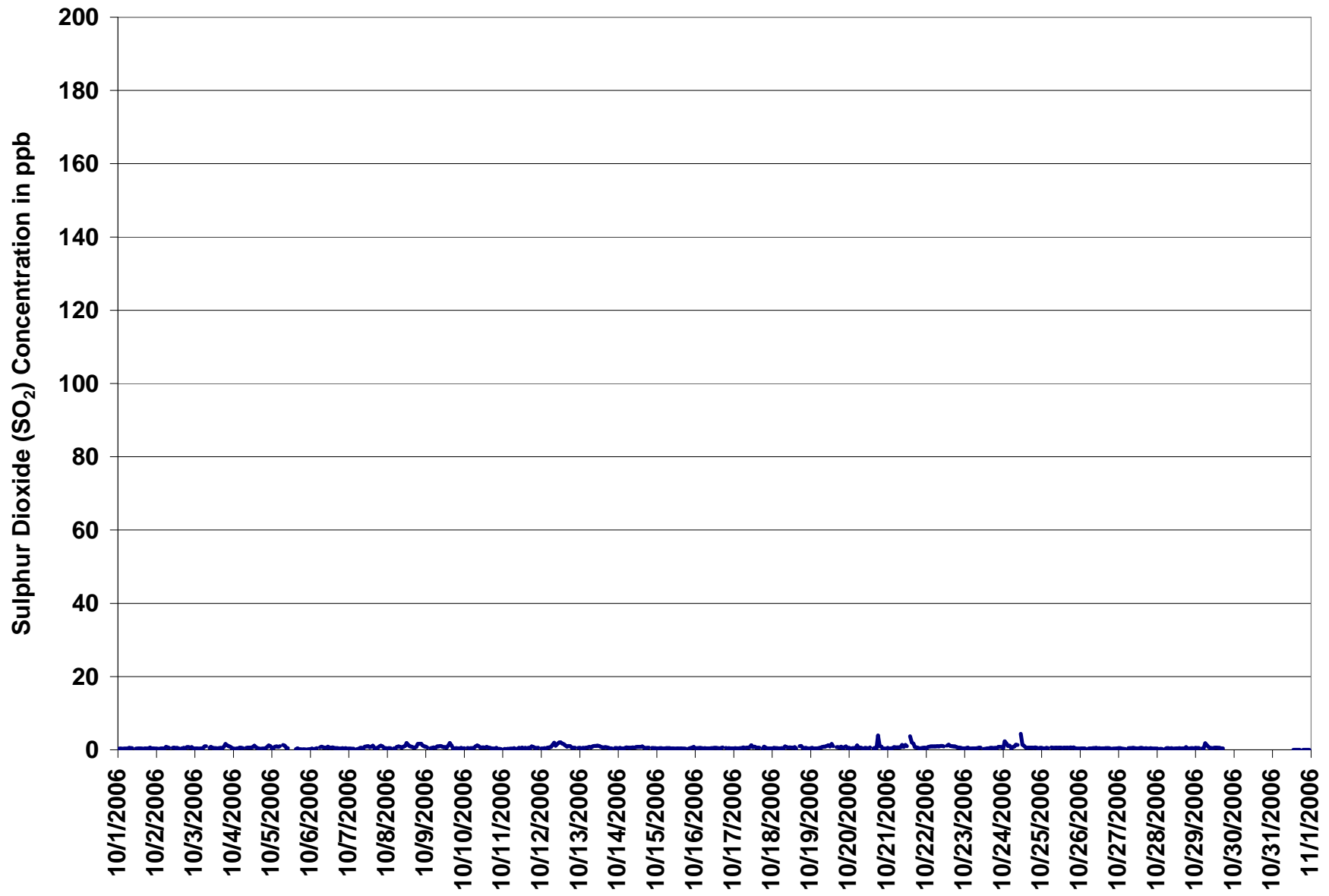
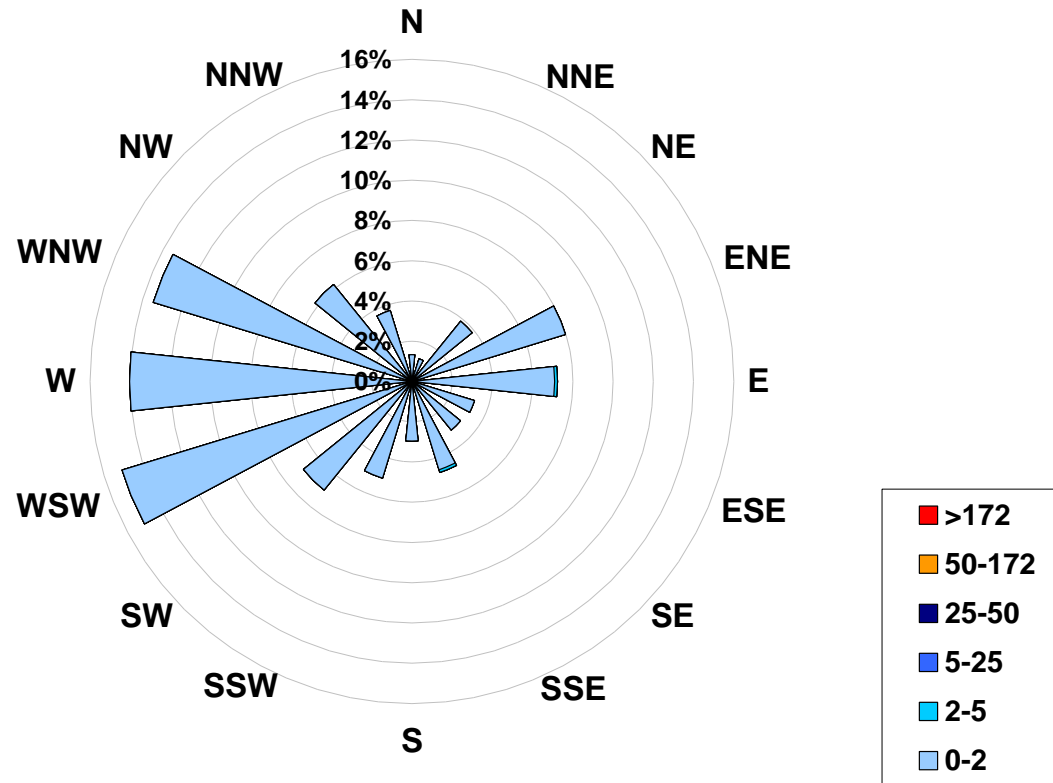


Figure 2. PASZA - Henry Pirker Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2		664
2	to 5		2
5	to 25		0
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			666

PASZA - Henry Pirker - Nitrogen Dioxide Monthly Summary

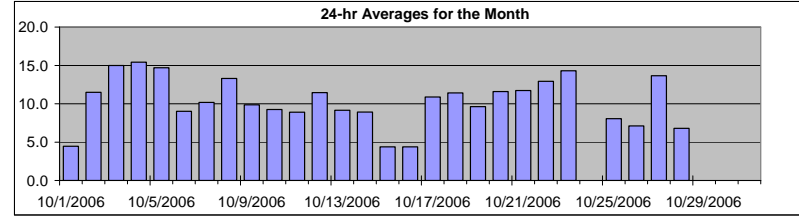
Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: October 1, 2006 to November 1, 2006

Objective Limit:	Alberta Environment:	1-hr 212 ppb	24-hr 106 ppb
Summary			
Number of 1-hr Exceedances:	0		
Number of 24-hr Exceedances:	0		
Maximum 1-hr Average:	45.1 ppb	31-Oct	17:00 18:00
Maximum 24-hr Average:	15.4 ppb	4-Oct	



AIC Time:	33 hrs		Operational Time:	664 hrs	
Calibration Time:	6 hrs		AMD Operational Uptime:	94.5%	
Percentile	99	95	75	50	25
	33.4	25.4	14.3	8.7	5.0
				1.9	1.5
	Average			Median	
	10.5 ppb			8.7 ppb	

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum			
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00		
1-Oct-06	2	2	2	3	4	5	6	8	4	3	A	4	2	2	2	2	3	2	3	8	10	7	6	8	4.5	10.3			
2-Oct-06	5	4	4	9	6	11	21	23	15	A	7	4	3	3	2	3	3	4	22	26	20	26	26	17	11.5	26.3			
3-Oct-06	11	13	12	12	12	15	23	22	A	14	12	8	7	8	7	7	5	9	29	33	31	20	22	14	15.0	33.4			
4-Oct-06	12	12	13	9	15	17	23	A	19	15	11	10	11	8	5	7	9	11	15	16	26	29	30	31	15.4	31.2			
5-Oct-06	17	14	19	18	21	24	A	44	29	12	4	4	3	3	6	17	18	18	26	13	8	6	9	6	14.7	43.9			
6-Oct-06	4	8	13	9	9	A	27	21	19	16	12	6	3	2	2	3	3	3	7	8	8	9	5	10	9.0	26.6			
7-Oct-06	7	9	8	7	A	15	18	15	11	7	5	2	2	1	1	2	2	6	19	28	27	17	14	12	10.2	27.8			
8-Oct-06	16	15	14	A	15	12	14	15	16	12	8	5	2	2	1	1	2	4	17	31	31	30	28	15	13.3	31.4			
9-Oct-06	12	14	A	19	19	16	17	23	22	17	15	9	4	2	2	2	2	3	9	6	5	5	4	2	9.9	23.0			
10-Oct-06	3	A	3	3	7	19	22	25	31	14	11	6	5	4	5	5	6	6	8	7	7	7	4	4	9.2	30.6			
11-Oct-06	A	5	5	9	12	13	7	9	8	6	7	8	5	4	5	6	9	12	18	15	12	11	12	A	8.9	18.0			
12-Oct-06	10	10	9	9	10	12	13	17	22	15	10	8	11	6	11	10	9	12	11	12	12	13	A	13	11.5	21.6			
13-Oct-06	12	9	8	7	9	14	16	17	15	10	7	6	5	5	5	6	8	8	9	8	9	A	9	9	9.1	16.7			
14-Oct-06	8	10	7	6	9	10	9	12	10	8	7	8	7	7	7	8	10	10	11	10	A	11	10	9	8.9	12.3			
15-Oct-06	9	9	8	7	7	8	9	9	3	2	2	2	2	2	2	2	2	2	3	A	4	4	3	3	4.4	8.9			
16-Oct-06	2	2	2	2	2	3	5	8	6	5	5	5	5	6	5	6	7	5	A	5	5	3	3	3	4.4	8.5			
17-Oct-06	3	3	4	5	10	17	24	20	16	14	10	10	8	10	10	17	16	A	15	20	6	4	3	5	10.9	24.2			
18-Oct-06	7	17	21	21	12	10	19	20	23	21	15	9	2	2	4	6	A	15	10	6	6	6	6	5	11.4	23.2			
19-Oct-06	4	7	5	8	8	16	19	16	17	18	20	22	12	11	9	A	7	6	3	2	3	2	2	2	9.6	22.0			
20-Oct-06	2	2	2	1	3	14	20	23	23	16	4	3	3	2	A	4	5	18	30	31	16	14	16	14	11.6	30.8			
21-Oct-06	13	15	14	13	12	13	14	13	13	20	13	11	9	A	8	5	5	11	13	12	10	14	10	9	11.7	19.9			
22-Oct-06	9	9	10	10	8	10	9	12	12	14	19	18	A	23	22	20	25	24	22	11	3	2	2	2	12.9	25.5			
23-Oct-06	3	3	3	4	7	8	20	19	21	19	14	A	8	12	13	17	23	15	24	24	26	21	13	12	14.3	25.7			
24-Oct-06	8	9	8	9	14	14	19	21	26	27	A	C	C	C	C	C	C	A	19	5	6	13	5	3	N	27.4			
25-Oct-06	3	3	2	2	4	A	12	22	18	15	9	6	5	6	7	9	11	10	14	9	5	3	4	6	8.1	22.1			
26-Oct-06	2	2	2	2	A	12	16	10	23	9	5	3	3	3	3	3	5	11	13	9	7	8	8	6	7.1	23.1			
27-Oct-06	8	6	8	6	6	A	24	25	24	22	23	15	8	10	13	12	9	18	17	19	15	12	8	7	13.7	25.0			
28-Oct-06	5	4	3	4	A	7	8	7	11	10	7	8	8	7	8	7	6	6	7	6	8	6	7	5	6.8	10.7			
29-Oct-06	6	7	11	A	14	11	7	8	5	4	3	3	3	3	3	8	4	5	D	D	D	D	D	D	N	13.7			
30-Oct-06	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	N	N	N	N	N	N	N	N	-		
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	2	6	11	17	33	45	A	43	40	37	39	33	N	45.1	
Hourly Avg	7.2	7.9	7.9	7.9	9.8	12.5	15.7	17.4	16.5	13.1	9.8	7.5	5.4	5.6	6.4	7.4	8.8	10.8	14.8	15.2	12.9	12.2	11.0	9.5					
Hourly Max	17.4	17.2	20.9	20.7	21.1	23.8	26.6	43.9	30.6	27.4	22.7	22.0	12.3	22.7	21.9	19.9	32.7	45.1	30.4	42.6	39.7	37.3	39.1	33.4					

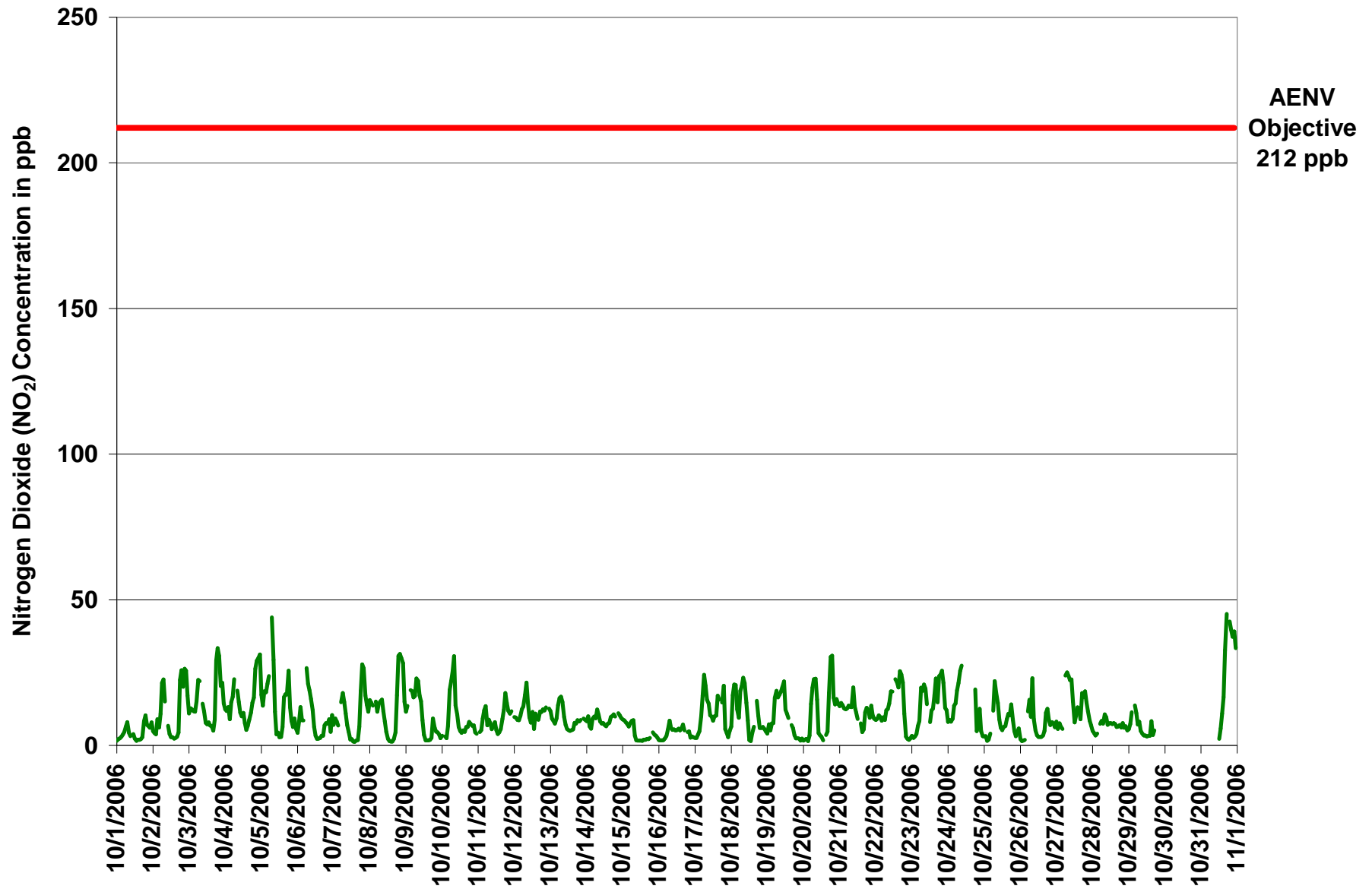


Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

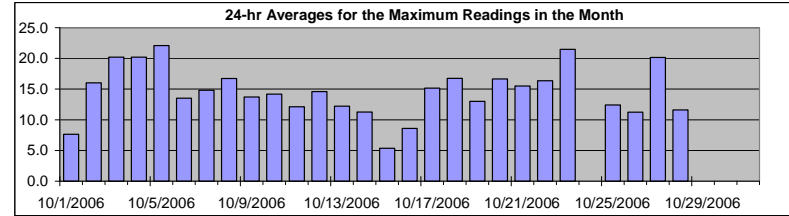
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	53.0	ppb	5-Oct	7:00 8:00
Maximum 24-hr Value:	22.1	ppb	5-Oct	



AIC Time:	33 hrs	Operational Time:	664 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	94.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	42.7	32.2	19.8	13.1	8.5	3.6	2.5	14.8 ppb	13.1 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-Oct-06	3	3	3	5	8	9	11	16	6	7	A	7	4	4	5	4	4	5	16	16	11	10	8	13	7.6	16.1	
2-Oct-06	7	8	7	12	9	16	27	29	20	A	10	6	5	5	5	5	7	13	34	34	29	30	30	22	16.0	33.9	
3-Oct-06	13	15	15	15	14	20	43	25	A	20	14	10	11	11	12	12	22	34	39	35	28	26	22	20.2	43.3		
4-Oct-06	15	18	16	13	21	24	25	A	22	18	13	12	13	11	8	16	13	19	26	28	32	32	36	35	20.2	35.7	
5-Oct-06	26	22	22	22	34	35	A	53	40	26	8	10	7	5	19	22	26	24	31	24	14	15	15	8	22.1	53.0	
6-Oct-06	8	10	19	15	15	A	30	25	23	20	16	13	6	5	8	6	7	5	17	10	10	15	10	18	13.5	30.4	
7-Oct-06	15	17	14	9	A	19	21	20	16	10	14	3	4	4	6	3	5	15	28	31	30	27	17	14	14.8	31.2	
8-Oct-06	18	18	16	A	19	16	17	20	19	15	11	7	4	3	3	3	5	8	31	34	33	33	31	24	16.7	34.1	
9-Oct-06	16	22	A	23	24	18	22	27	26	24	21	12	6	5	4	5	4	6	17	8	8	8	7	4	13.7	26.7	
10-Oct-06	5	A	5	4	11	25	25	32	47	29	16	9	7	11	9	8	11	10	12	10	10	12	9	9	14.2	47.5	
11-Oct-06	A	10	7	12	15	18	10	14	13	9	9	10	8	5	7	8	13	22	21	18	13	12	13	A	12.1	22.4	
12-Oct-06	12	11	10	10	13	17	16	24	26	17	13	12	17	10	14	12	12	14	15	15	15	15	A	16	14.6	26.4	
13-Oct-06	16	12	10	9	12	19	19	22	17	13	9	7	8	10	8	8	13	11	14	11	11	A	14	11	12.2	21.7	
14-Oct-06	11	17	9	12	13	12	11	13	12	10	9	10	8	9	9	10	13	11	12	11	A	13	13	10	11.3	17.4	
15-Oct-06	9	10	9	9	7	9	9	10	7	2	2	2	2	3	3	3	3	3	3	A	6	5	5	3	5.4	10.0	
16-Oct-06	3	3	6	5	5	6	11	13	11	10	10	10	10	12	18	9	12	14	A	8	9	4	5	5	8.6	17.7	
17-Oct-06	4	4	6	7	17	23	26	23	18	16	15	12	12	14	15	23	21	A	25	38	9	10	5	8	15.2	38.4	
18-Oct-06	9	24	24	25	24	22	24	26	25	35	21	13	4	3	7	11	A	20	21	9	8	11	11	7	16.7	34.8	
19-Oct-06	6	14	7	12	10	20	23	18	19	20	23	28	16	15	15	A	12	14	8	5	4	3	3	4	13.0	28.2	
20-Oct-06	4	3	4	2	10	19	23	25	25	23	8	5	7	5	A	7	14	34	35	39	31	20	21	20	16.7	38.7	
21-Oct-06	17	17	16	15	14	19	20	19	16	23	23	16	14	A	10	7	11	15	17	14	14	16	14	11	15.5	23.4	
22-Oct-06	10	11	14	14	12	13	13	18	15	19	21	19	A	27	26	23	29	28	23	24	6	6	3	4	16.3	28.5	
23-Oct-06	5	4	5	11	12	16	27	25	32	24	22	A	14	24	23	26	27	24	32	36	37	30	21	18	21.5	37.4	
24-Oct-06	13	11	12	12	21	19	21	26	31	32	A	C	C	C	C	C	C	A	27	10	13	20	9	4	N	31.9	
25-Oct-06	4	4	4	4	6	A	16	29	27	20	15	11	10	11	10	14	16	15	22	14	9	5	8	11	12.4	28.5	
26-Oct-06	5	3	3	4	A	15	24	18	33	13	8	6	6	5	5	9	21	18	14	10	11	13	11	11.2	33.4		
27-Oct-06	13	11	13	18	18	A	30	33	28	28	26	22	16	14	17	26	19	25	22	21	17	21	12	10	20.1	32.9	
28-Oct-06	9	8	7	8	A	11	16	13	17	15	12	13	14	12	11	11	9	9	13	9	12	9	19	9	11.6	18.9	
29-Oct-06	10	12	20	A	18	19	14	14	8	6	5	6	5	5	5	14	5	10	D	D	D	D	D	D	N	20.0	
30-Oct-06	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	N	N	N	N	N	N	N	N	-
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	6	9	16	21	45	49	A	47	41	42	43	38	N	49.2	
Hourly Avg	10.2	11.5	10.8	11.3	14.6	17.6	20.5	22.5	21.4	17.9	13.9	10.8	8.7	9.1	10.6	11.4	13.5	16.6	21.3	20.7	16.9	16.4	15.0	13.2			
Hourly Max	26.0	24.0	23.6	25.1	33.7	35.4	43.3	53.0	47.5	34.8	26.0	28.2	16.6	26.6	25.6	26.2	45.5	49.2	35.5	46.8	41.5	42.3	43.3	38.0			

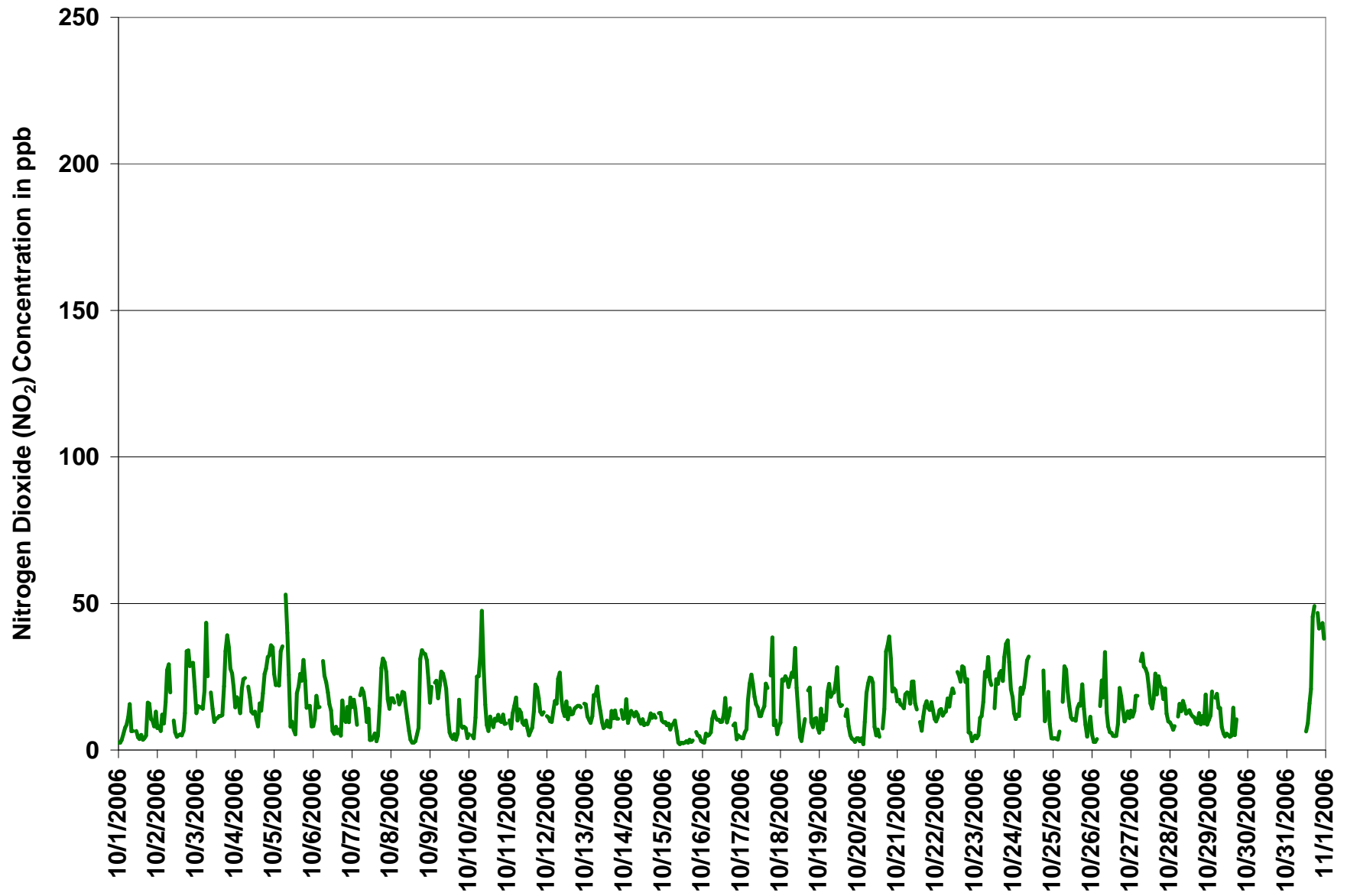
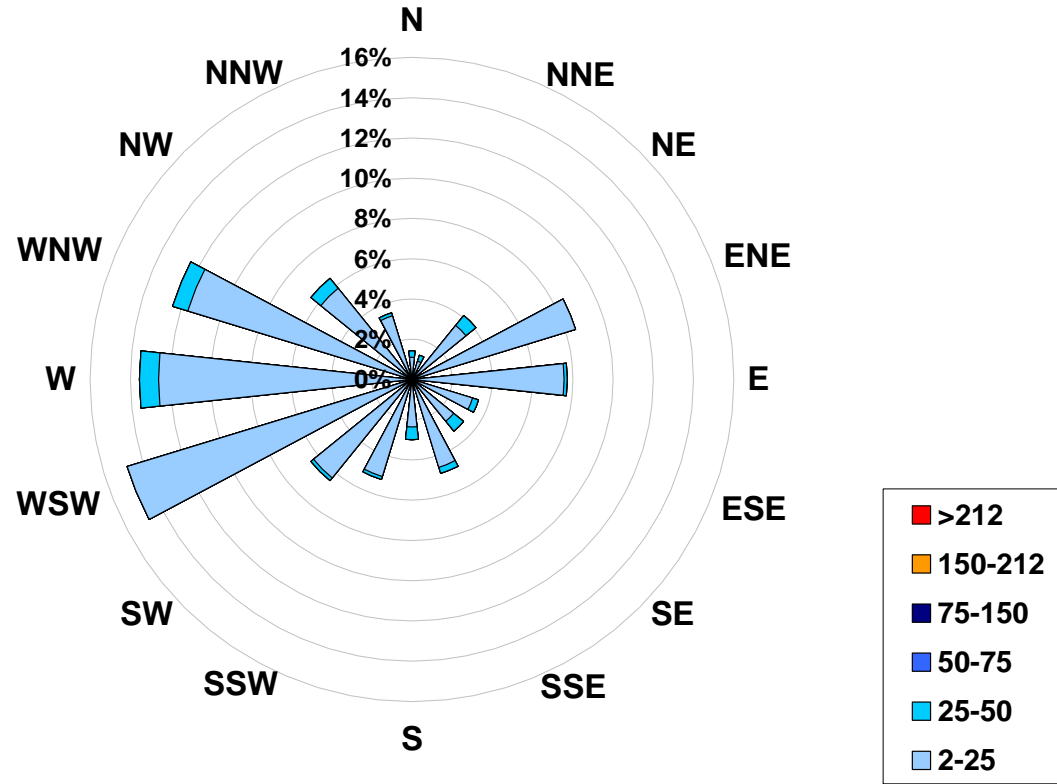


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%
---------------	-----------

Frequency Distribution of NO ₂ in ppb			
Range		Frequency (hrs)	
2.0	< 25	595	
25	to 50	37	
50	to 75	22	
75	to 150	9	
150	to 212	1	
	> 212	0	
Total Non-Zero Values			664

PASZA - Henry Pirker - Nitric Oxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

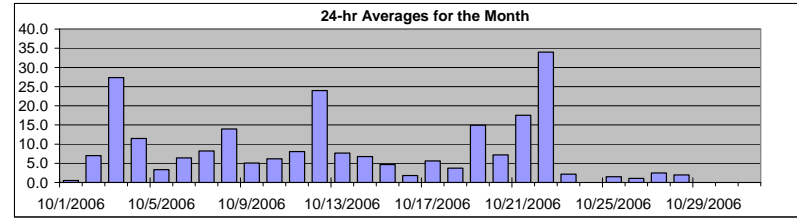
HOURLY AVERAGE TABLE

Nitric Oxide (NO)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Maximum 1-hr Average:	165.5	ppb	12-Oct	8:00 9:00
Maximum 24-hr Average:	34.0	ppb	22-Oct	



AIC Time:	33 hrs	Operational Time:	664 hrs
Calibration Time:	6 hrs	AMD Operational Uptime:	94.5%
Percentile	99	95	75
	87.7	45.2	8.0
	2.0	0.5	0.0
	0.0	0.0	0.0
	1	5	25
	5	25	50
	25	50	75
	50	75	95
	75	95	99
Average	8.9 ppb		Median
			2.0 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 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-Oct-06	0	0	0	0	0	0	0	2	1	1	A	1	1	0	0	1	1	0	1	0	1	0	0	0	0.5	1.6			
2-Oct-06	0	0	0	0	0	2	25	33	14	A	3	2	1	1	1	1	1	0	9	7	2	18	33	9	7.0	33.2			
3-Oct-06	1	3	2	2	7	28	64	72	A	23	15	7	5	5	3	2	1	1	14	98	112	84	58	24	27.4	112.3			
4-Oct-06	8	2	1	0	5	8	24	A	23	16	11	8	9	4	2	2	2	1	1	1	11	36	58	31	11.5	58.4			
5-Oct-06	1	0	0	0	2	3	A	41	17	2	1	1	0	0	1	3	1	0	1	0	1	0	0	0	3.3	41.3			
6-Oct-06	0	0	0	0	0	A	37	45	36	13	7	3	2	1	1	1	0	0	0	0	0	0	0	1	6.4	45.2			
7-Oct-06	0	0	0	0	A	2	14	15	9	5	4	1	1	0	0	0	0	1	4	28	71	25	7	2	8.2	70.7			
8-Oct-06	8	4	5	A	3	7	20	41	32	16	9	4	1	1	0	0	0	0	3	32	43	54	36	1	14.0	54.0			
9-Oct-06	0	1	A	3	3	1	1	27	36	19	15	6	1	1	0	0	0	0	0	0	0	0	0	0	5.1	36.5			
10-Oct-06	0	A	0	0	0	4	11	20	62	17	8	3	2	2	2	1	1	1	1	2	2	1	1	0	6.2	62.2			
11-Oct-06	A	1	0	1	2	3	1	3	3	3	6	10	5	4	4	3	4	5	26	29	21	14	28	A	8.0	28.7			
12-Oct-06	7	7	9	10	29	47	53	105	166	55	14	7	12	3	7	3	2	2	3	3	3	3	A	1	24.0	165.5			
13-Oct-06	2	1	1	1	1	9	43	42	23	9	7	5	4	3	3	2	3	3	4	3	3	A	2	1	7.7	43.1			
14-Oct-06	1	3	1	1	2	3	2	6	7	6	5	6	6	6	7	8	10	9	15	11	A	15	13	13	6.8	14.8			
15-Oct-06	11	11	9	8	9	16	20	6	1	1	1	2	2	1	2	1	2	1	1	A	1	1	1	0	4.7	19.8			
16-Oct-06	0	0	0	0	1	1	3	4	2	3	4	4	4	4	4	3	2	1	A	1	1	0	0	0	1.8	4.3			
17-Oct-06	0	0	0	0	0	2	16	12	13	19	11	8	6	5	4	6	4	A	1	19	0	1	0	0	5.6	19.5			
18-Oct-06	0	2	5	1	2	0	2	5	17	24	9	5	1	1	2	2	A	3	3	1	1	1	1	0	3.8	23.6			
19-Oct-06	0	0	0	0	0	9	21	17	40	53	79	86	18	9	5	A	1	1	1	0	0	0	0	0	14.9	85.9			
20-Oct-06	0	0	0	0	0	2	7	14	21	12	2	1	1	1	A	0	1	8	25	45	12	3	4	7	7.2	45.2			
21-Oct-06	3	5	6	11	15	27	39	40	55	91	20	13	9	A	3	2	1	3	4	4	2	6	22	21	17.5	90.8			
22-Oct-06	8	20	54	51	53	65	56	63	56	53	74	58	A	34	25	14	24	26	37	12	0	0	0	0	34.0	73.8			
23-Oct-06	0	0	0	0	0	0	4	2	6	9	6	A	1	2	2	2	2	0	1	3	7	2	0	0	2.2	9.3			
24-Oct-06	0	0	0	0	0	3	12	32	96	109	A	C	C	C	C	C	C	A	3	1	1	1	0	0	N	108.8			
25-Oct-06	0	0	0	0	0	A	1	6	6	6	4	3	2	2	1	2	1	1	1	0	0	0	0	0	1.5	6.0			
26-Oct-06	0	0	0	0	A	0	2	1	8	2	2	1	1	1	1	1	1	1	0	0	0	0	0	0	1.0	7.9			
27-Oct-06	0	0	0	0	0	A	4	8	9	8	11	5	2	2	2	2	0	1	0	0	0	0	1	1	2.5	11.2			
28-Oct-06	1	1	0	1	A	1	1	2	5	4	3	3	3	3	3	4	3	2	2	1	1	1	1	1	2.0	4.6			
29-Oct-06	1	0	0	A	0	0	0	0	1	2	2	3	3	4	6	9	9	11	D	D	D	D	D	D	N	11.1			
30-Oct-06	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	N	N	N	N	N	N	N	N	-		
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0	0	4	7	25	62	A	43	30	24	26	14	N	61.9	
Hourly Avg	1.9	2.2	3.4	3.4	5.2	9.3	17.3	23.7	27.3	20.7	12.3	9.5	3.7	3.6	3.4	3.0	3.7	5.2	6.0	12.2	11.6	10.4	10.4	4.6					
Hourly Max	11.5	19.9	54.3	51.1	52.9	64.5	63.8	105.2	165.5	108.8	79.2	85.9	18.3	34.4	24.6	13.6	24.9	61.9	37.3	97.7	112.3	84.0	58.4	30.7					

PASZA - Henry Pirker - Oxides of Nitrogen Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

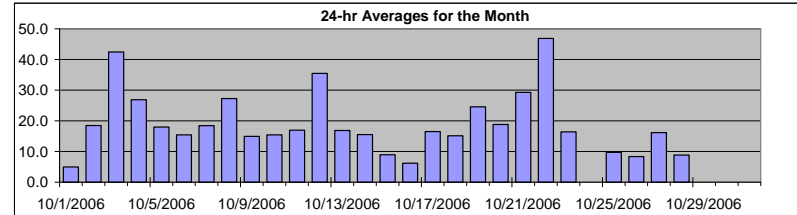
HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Maximum 1-hr Average:	187.7	ppb	12-Oct	8:00 9:00
Maximum 24-hr Average:	46.9	ppb	22-Oct	



AIC Time:	33 hrs	Operational Time:	664 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	94.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	109.2	66.1	22.4	11.7	6.1	2.4	1.7	19.5 ppb	11.7 ppb

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

Day	Mountain Standard Time																								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-Oct-06	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	5.0	10.7	
2-Oct-06		2	4	4	9	7	12	46	56	29	A	10	6	4	4	3	3	4	5	31	32	22	44	58	26	18.5	58.2	
3-Oct-06		12	16	14	14	18	43	86	95	A	37	27	14	12	12	10	9	6	10	43	131	143	105	80	38	42.4	143.4	
4-Oct-06		21	13	14	9	20	24	46	A	42	31	22	18	20	12	7	9	10	12	16	18	37	65	89	62	26.8	88.6	
5-Oct-06		19	14	19	18	23	26	A	85	46	14	4	5	3	3	7	19	19	18	27	14	9	6	9	6	18.0	85.2	
6-Oct-06		4	8	13	9	9	A	63	66	55	29	19	9	5	3	3	3	4	4	7	8	8	9	5	11	15.4	66.4	
7-Oct-06		7	10	8	7	A	17	32	30	20	12	8	3	3	2	2	2	2	7	22	55	97	43	21	13	18.4	97.4	
8-Oct-06		23	19	19	A	18	19	34	56	48	28	17	9	4	2	2	2	3	5	21	63	75	84	64	16	27.3	84.1	
9-Oct-06		12	14	A	22	22	18	18	50	59	36	30	15	5	2	2	2	3	9	6	5	5	4	2	14.9	58.7		
10-Oct-06		3	A	3	2	7	23	33	45	93	31	18	9	7	6	7	6	8	7	9	9	8	8	5	4	15.4	93.0	
11-Oct-06		A	5	6	10	14	16	8	12	10	8	12	18	10	8	9	9	14	17	44	43	33	25	40	A	16.9	44.5	
12-Oct-06		17	16	18	18	39	59	66	123	188	70	24	15	24	9	18	13	11	14	14	15	15	16	A	14	35.4	187.7	
13-Oct-06		13	10	10	8	11	23	59	59	38	18	14	11	9	8	8	8	11	11	12	11	12	A	11	10	16.8	59.5	
14-Oct-06		9	13	7	7	12	13	12	18	17	14	12	14	13	13	14	15	20	19	25	21	A	25	23	22	15.5	25.4	
15-Oct-06		20	19	17	15	16	23	28	14	4	3	3	3	3	3	3	3	4	3	4	A	5	5	4	3	9.0	28.2	
16-Oct-06		2	2	2	2	3	4	9	12	8	8	9	9	9	10	9	8	9	6	A	5	5	3	3	3	6.2	12.1	
17-Oct-06		3	3	4	5	10	19	41	32	29	34	21	18	15	15	14	23	20	A	16	39	6	5	3	5	16.5	40.6	
18-Oct-06		7	20	25	22	14	10	21	25	40	45	23	14	3	2	6	8	A	18	13	7	7	7	6	5	15.1	45.0	
19-Oct-06		4	8	6	8	8	25	40	34	57	71	99	108	31	20	15	A	8	7	4	3	3	3	2	3	24.6	108.2	
20-Oct-06		2	2	2	2	4	16	27	37	44	28	6	4	4	2	A	4	5	26	55	76	28	17	20	21	18.8	76.0	
21-Oct-06		16	20	20	24	27	40	53	53	68	111	33	24	18	A	11	6	7	14	17	16	11	20	32	30	29.3	111.0	
22-Oct-06		17	29	65	61	61	74	65	75	68	67	92	76	A	57	46	33	49	50	59	23	3	2	2	2	46.9	92.4	
23-Oct-06		3	2	3	4	7	9	23	21	27	29	20	A	10	14	14	19	25	15	24	28	33	23	13	12	16.4	32.5	
24-Oct-06		8	9	8	9	14	17	31	53	122	136	A	C	C	C	C	C	C	A	22	6	7	13	5	3	N	136.5	
25-Oct-06		3	3	2	2	4	A	13	28	24	20	13	9	7	9	8	11	12	11	15	9	5	4	5	6	9.7	27.9	
26-Oct-06		2	2	2	2	A	12	18	11	31	12	7	5	4	4	4	5	6	13	14	9	8	8	8	6	8.3	31.2	
27-Oct-06		8	6	8	7	6	A	28	33	33	31	34	21	10	12	15	15	9	19	17	19	15	12	9	7	16.1	33.9	
28-Oct-06		6	5	4	5	A	8	10	10	15	13	10	11	11	11	11	11	9	9	9	7	9	7	8	6	8.8	15.3	
29-Oct-06		6	8	12	A	14	11	7	9	6	6	6	6	6	7	9	18	13	16	D	D	D	D	D	D	N	17.6	
30-Oct-06		D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	N	N	N	N	N	N	N	N	-
31-Oct-06		N	N	N	N	N	N	N	N	N	N	N	N	1	5	15	24	58	107	A	86	70	62	66	49	N	107.2	
Hourly Avg		9.1	10.0	11.3	11.3	15.0	21.9	33.0	41.1	43.8	33.8	22.1	17.0	9.0	9.2	9.8	10.4	12.5	16.0	20.7	27.4	24.5	22.6	21.5	14.1			
Hourly Max		23.1	29.0	64.7	60.9	61.5	74.3	86.5	122.9	187.7	136.5	99.4	108.2	30.6	57.0	46.3	33.3	57.7	107.2	58.9	131.3	143.4	104.7	88.6	61.9			

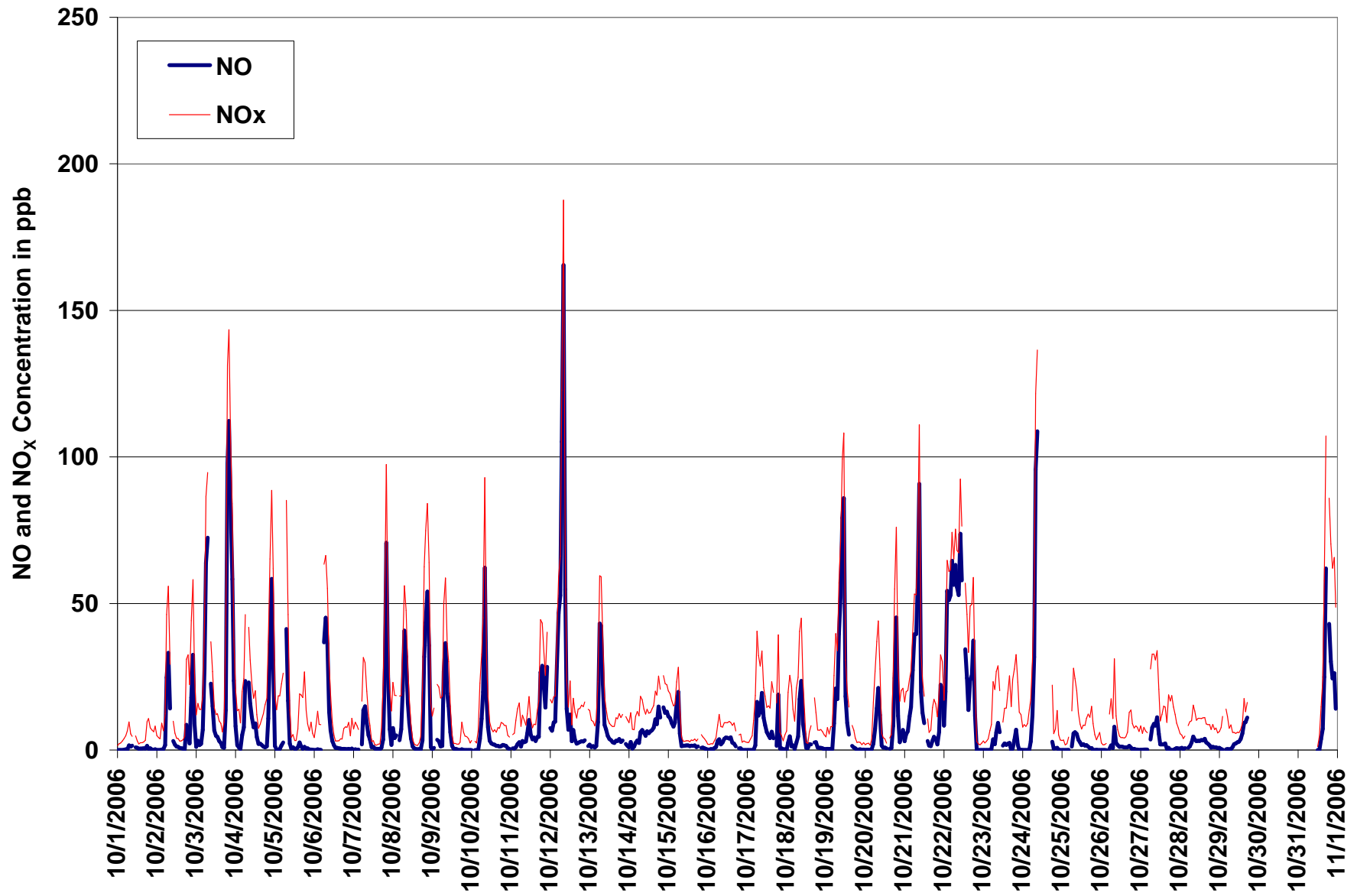


Figure 5. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

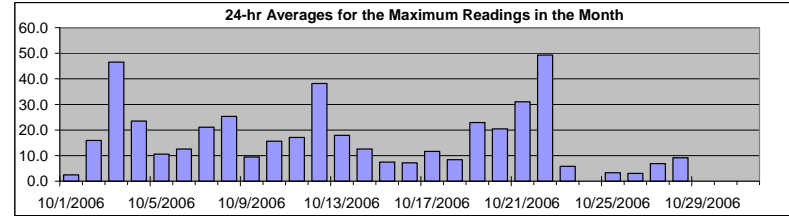
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	221.9	ppb	12-Oct	8:00 9:00
Maximum 24-hr Value:	49.3	ppb	22-Oct	



AIC Time:	33 hrs	Operational Time:	664 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	94.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	136.6	75.2	18.3	6.5	2.0	0.5	0.0	17.3 ppb	6.5 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-Oct-06	0	0	0	0	1	1	2	23	2	3	A	3	1	1	2	1	1	7	1	2	1	0	1	2.5	22.8			
2-Oct-06	0	0	0	1	1	4	68	71	23	A	5	3	2	2	2	1	1	4	33	26	13	35	50	18	15.9	71.3		
3-Oct-06	2	6	5	6	22	49	144	116	A	36	21	10	8	7	7	5	5	4	66	135	171	106	99	40	46.6	171.4		
4-Oct-06	15	7	3	1	50	34	38	A	25	24	15	11	12	7	4	5	3	3	4	6	41	60	92	78	23.5	92.2		
5-Oct-06	12	1	1	2	14	24	A	76	71	10	2	2	2	1	5	6	3	1	3	2	1	1	1	1	10.6	76.0		
6-Oct-06	0	0	7	1	0	A	63	78	65	31	11	9	4	3	4	2	2	1	1	1	2	1	3	12.5	77.9			
7-Oct-06	0	3	1	0	A	6	33	46	23	8	15	2	3	2	2	1	1	4	23	57	139	84	26	4	21.1	138.9		
8-Oct-06	21	10	18	A	10	29	57	56	43	24	14	6	2	1	1	1	1	1	35	46	60	71	69	6	25.3	70.9		
9-Oct-06	1	4	A	10	13	2	9	46	47	37	26	10	3	2	1	1	0	0	1	0	0	0	0	0	9.5	46.9		
10-Oct-06	0	A	0	0	0	14	18	72	92	54	21	6	5	11	10	5	6	7	7	6	7	10	5	2	15.6	92.0		
11-Oct-06	A	14	4	7	8	9	4	18	15	10	9	16	9	6	7	5	12	28	44	64	31	20	37	A	17.1	64.4		
12-Oct-06	14	20	13	11	48	67	69	181	222	91	30	12	21	7	18	16	5	4	5	6	6	6	A	3	38.2	221.9		
13-Oct-06	5	6	7	9	5	28	80	68	40	15	18	7	8	18	9	5	8	14	20	10	12	A	13	7	17.9	80.5		
14-Oct-06	6	14	1	15	10	13	4	11	9	10	8	14	9	13	10	13	16	12	20	16	A	23	21	19	12.6	22.9		
15-Oct-06	15	13	12	16	12	21	24	16	3	2	3	4	3	2	3	2	5	2	3	A	2	4	3	1	7.5	24.4		
16-Oct-06	1	1	9	4	5	4	13	14	4	7	11	12	13	20	21	8	5	6	A	4	3	0	0	0	7.2	21.2		
17-Oct-06	0	0	0	0	0	7	25	14	18	27	25	12	10	7	6	11	8	A	13	76	2	2	1	2	11.7	75.9		
18-Oct-06	0	7	12	5	12	2	6	15	23	40	19	11	2	2	3	4	A	6	13	4	2	3	2	1	8.4	40.3		
19-Oct-06	1	2	1	1	2	22	48	28	59	61	99	121	40	17	10	A	4	3	2	1	1	1	1	1	22.9	120.9		
20-Oct-06	0	1	1	0	2	6	18	27	34	28	3	1	2	2	A	3	7	39	70	84	90	12	17	23	20.5	89.8		
21-Oct-06	7	10	12	23	22	53	59	90	76	133	51	21	18	A	5	3	7	9	23	7	5	16	32	32	31.0	133.4		
22-Oct-06	16	51	79	64	65	84	96	85	64	65	93	66	A	56	30	30	46	40	56	47	0	1	0	0	49.3	95.8		
23-Oct-06	0	0	0	0	0	2	9	3	14	14	11	A	4	6	6	4	5	1	2	15	26	6	1	2	5.8	25.9		
24-Oct-06	0	1	1	1	4	11	25	69	140	159	A	C	C	C	C	C	C	A	7	1	1	2	1	1	N	159.1		
25-Oct-06	0	0	0	0	1	A	2	14	15	9	7	6	3	3	3	3	2	1	2	1	1	1	0	0	3.3	15.4		
26-Oct-06	1	0	0	0	A	1	11	3	21	4	3	2	2	2	2	2	2	5	3	0	1	1	1	1	3.0	20.5		
27-Oct-06	0	1	1	2	3	A	9	27	18	17	15	12	6	4	4	17	2	2	1	0	0	6	4	5	6.9	26.5		
28-Oct-06	4	8	5	7	A	6	9	16	15	11	10	9	11	13	11	14	11	12	8	3	6	6	8	5	9.2	16.4		
29-Oct-06	6	3	3	A	2	2	1	1	2	3	4	5	5	5	7	12	11	13	D	D	D	D	D	D	N	12.6		
30-Oct-06	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	N	N	N	N	N	N	N	N	-	
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	31	8	13	17	57	116	A	65	43	85	49	38	N	116.3		
Hourly Avg	4.6	6.6	7.0	6.9	12.0	19.5	33.8	45.9	42.3	33.4	20.4	14.6	8.6	8.3	7.4	7.1	8.5	12.1	17.5	24.5	24.0	20.1	19.1	10.5				
Hourly Max	20.6	50.7	79.2	64.2	64.6	84.4	143.7	181.5	221.9	159.1	99.0	120.9	40.5	55.6	30.2	29.6	57.2	116.3	70.2	135.2	171.4	105.9	99.4	77.6				

Station: Henry Pirker
 Station Owner: PASZA

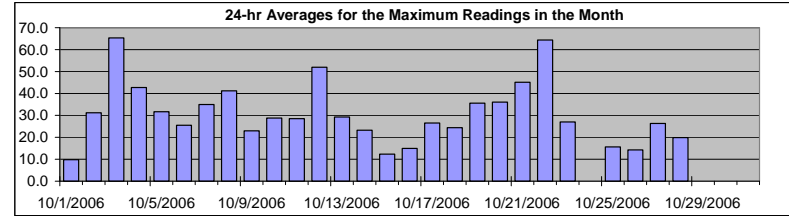
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	246.2	ppb	12-Oct	8:00 9:00
Maximum 24-hr Value:	65.3	ppb	3-Oct	



AIC Time:	33 hrs	Operational Time:	664 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	94.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	165.2	100.2	35.7	20.7	11.2	4.4	3.0	31.4 ppb	20.7 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00				
1-Oct-06	3	3	4	6	8	9	12	37	9	10	A	9	6	5	7	5	6	6	21	17	13	10	8	15	9.8	37.5		
2-Oct-06	8	8	6	13	10	21	95	100	43	A	15	9	6	7	7	7	8	14	65	60	38	59	79	39	31.2	99.7		
3-Oct-06	15	21	18	19	34	68	183	137	A	56	35	20	18	18	19	17	16	26	98	167	205	129	126	60	65.3	204.5		
4-Oct-06	29	25	18	13	71	58	60	A	45	41	28	24	26	18	12	21	16	23	30	33	69	89	127	107	42.7	126.6		
5-Oct-06	38	24	23	23	47	56	A	129	100	35	10	12	8	6	24	28	29	25	32	25	16	15	16	8	31.7	128.9		
6-Oct-06	9	10	25	15	15	A	90	99	86	50	27	23	10	8	12	7	9	6	18	11	10	16	10	21	25.5	99.1		
7-Oct-06	15	20	15	9	A	25	53	64	39	17	29	5	6	6	8	4	6	19	46	84	164	110	43	17	35.0	164.1		
8-Oct-06	37	27	34	A	25	43	73	76	62	39	25	13	6	4	4	4	6	8	65	78	90	100	99	30	41.2	100.3		
9-Oct-06	17	26	A	33	36	20	31	72	73	61	47	22	9	7	5	6	4	6	18	9	8	8	8	4	23.0	72.6		
10-Oct-06	5	A	5	4	12	39	43	105	137	83	31	13	11	22	19	12	13	17	19	14	14	19	13	11	28.8	137.3		
11-Oct-06	A	24	11	17	24	26	14	31	26	19	18	26	17	11	13	12	23	50	60	82	44	30	49	A	28.5	82.0		
12-Oct-06	25	25	23	20	61	83	85	206	246	108	44	23	37	17	32	28	15	18	18	21	21	20	A	19	52.0	246.2		
13-Oct-06	21	15	17	18	14	46	95	86	54	28	26	15	16	28	17	13	21	24	34	20	23	A	25	18	29.3	94.8		
14-Oct-06	16	31	10	25	21	25	15	24	20	19	17	24	17	22	19	23	27	23	32	26	A	35	33	28	23.2	35.2		
15-Oct-06	24	21	20	24	18	29	33	24	10	4	5	6	5	5	6	4	8	4	6	A	8	9	7	4	12.4	32.9		
16-Oct-06	3	3	15	9	10	10	23	25	15	17	18	21	22	30	38	16	14	19	A	10	11	4	5	5	14.9	37.6		
17-Oct-06	4	4	6	7	17	30	50	37	35	42	39	23	22	21	20	34	29	A	38	114	10	12	7	9	26.5	114.3		
18-Oct-06	9	30	34	30	34	23	30	42	47	72	40	23	6	4	10	14	A	26	34	12	9	12	13	8	24.4	71.5		
19-Oct-06	7	15	9	13	12	42	70	46	78	81	122	146	57	31	25	A	16	17	10	6	4	4	3	5	35.6	146.4		
20-Oct-06	5	4	4	2	11	26	40	50	57	51	12	6	9	7	A	10	20	71	102	116	116	33	37	41	36.1	116.3		
21-Oct-06	23	25	27	36	34	67	75	106	91	157	75	34	32	A	14	9	14	24	37	21	19	32	44	42	45.1	157.2		
22-Oct-06	25	61	90	76	75	96	107	103	76	84	114	84	A	82	52	52	74	63	78	68	6	6	3	4	64.4	114.1		
23-Oct-06	5	4	5	11	12	19	36	28	46	38	34	A	18	31	28	30	31	24	33	51	60	36	22	20	27.0	60.0		
24-Oct-06	12	11	13	12	24	29	45	94	167	189	A	C	C	C	C	C	C	A	34	11	15	22	10	4	N	189.3		
25-Oct-06	4	5	4	4	7	A	19	42	42	28	22	17	14	14	12	18	18	16	25	15	9	5	8	12	15.7	42.4		
26-Oct-06	5	3	3	4	A	16	35	20	54	17	11	9	8	7	8	7	11	26	22	14	10	11	13	11	14.2	53.8		
27-Oct-06	14	13	14	20	22	A	39	59	47	44	41	33	22	18	21	38	21	27	22	22	17	21	16	13	26.3	58.7		
28-Oct-06	14	17	12	13	A	16	23	28	32	25	21	22	24	26	22	24	21	20	19	11	18	15	22	14	19.9	31.8		
29-Oct-06	16	13	20	A	19	21	15	15	8	9	8	10	10	9	12	27	15	23	D	D	D	D	D	D	N	26.9		
30-Oct-06	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	N	N	N	N	N	N	N	N	-	
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	32	17	28	37	103	163	A	109	84	125	91	76	N	163.3	
Hourly Avg	14.5	17.4	17.2	17.6	25.9	36.2	53.2	67.3	62.3	50.9	33.8	25.0	16.9	17.2	17.7	18.1	21.3	28.1	37.6	43.9	39.7	35.3	33.4	23.0				
Hourly Max	37.5	61.0	90.1	76.4	75.3	95.9	182.7	205.9	246.2	189.3	121.6	146.4	56.7	82.2	52.2	52.2	103.1	163.3	102.0	167.3	204.5	128.7	126.6	106.9				

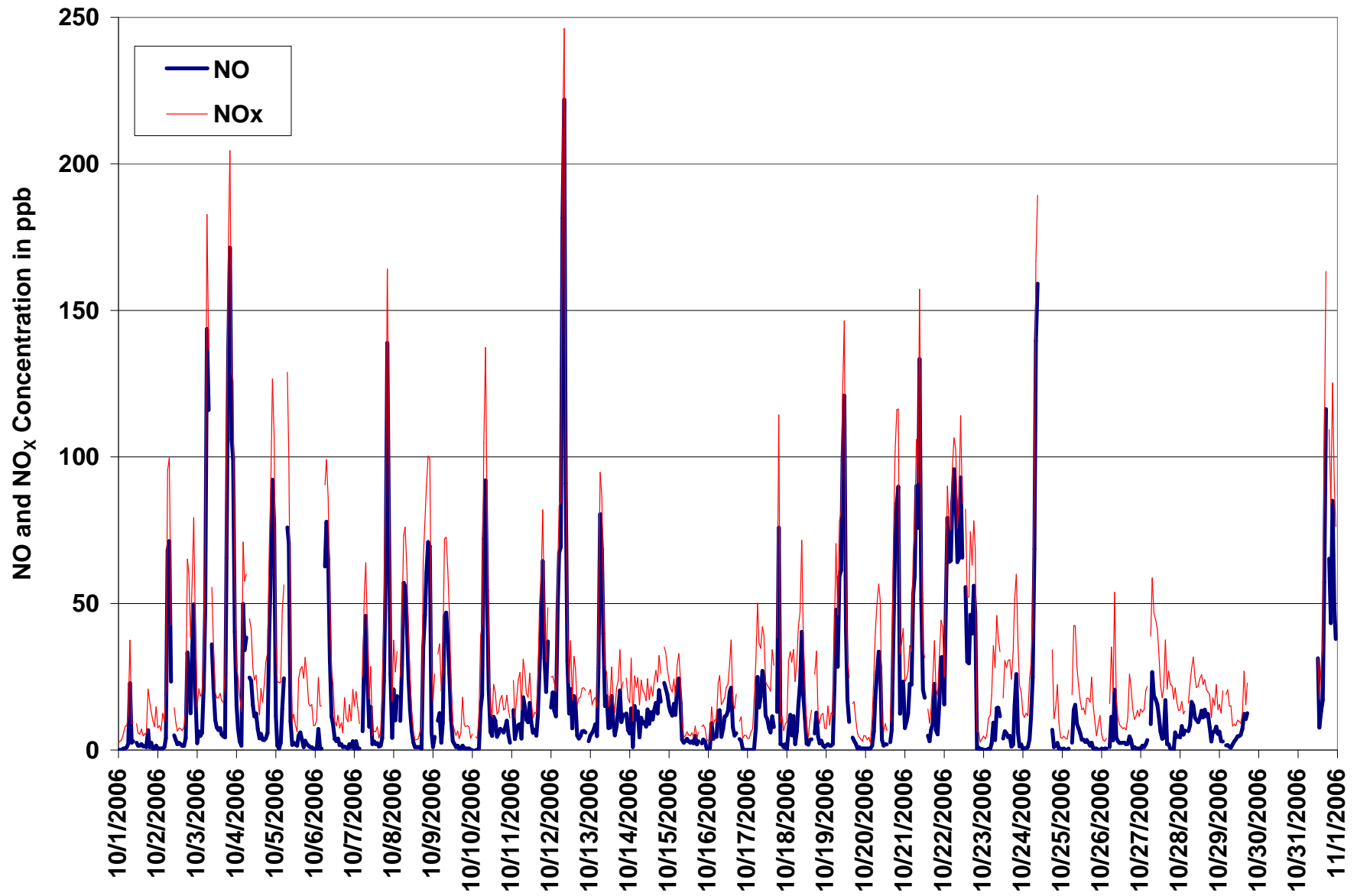


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Henry Pirker - Ozone Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

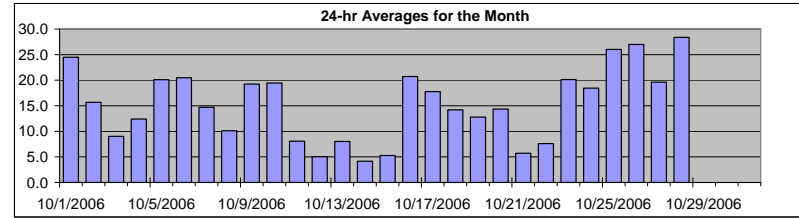
Ozone (O₃)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Summary

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	38.0 ppb	9-Oct	15:00	16:00
Maximum 24-hr Average:	28.4 ppb	28-Oct		



AIC Time:	33 hrs	Operational Time:	668 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	94.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	35.3	32.5	25.5	16.4	5.0	0.0	0.0	15.6 ppb	16.4 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-Oct-06	31	29	27	25	23	21	19	18	22	24	A	29	31	32	32	32	30	28	23	18	18	18	16	16	24.5	32.1		
2-Oct-06	17	17	16	10	15	10	1	2	9	A	22	25	28	30	32	33	32	30	11	8	11	1	0	1	15.7	32.5		
3-Oct-06	4	1	3	3	2	0	0	1	A	6	10	16	21	23	27	27	29	26	4	1	1	0	0	0	9.0	29.0		
4-Oct-06	1	6	6	12	4	5	1	A	5	11	14	19	18	24	29	30	30	26	20	16	5	1	1	0	12.4	30.5		
5-Oct-06	14	20	14	11	9	8	A	2	7	26	35	35	36	33	29	21	20	20	10	20	24	25	20	24	20.1	35.5		
6-Oct-06	24	17	12	15	17	A	0	0	2	7	15	23	29	33	35	35	35	34	29	26	23	21	22	17	20.5	35.5		
7-Oct-06	16	13	14	14	A	6	1	3	8	14	19	27	27	31	32	32	33	25	12	0	1	0	3	5	14.7	32.8		
8-Oct-06	1	1	1	A	3	1	0	0	2	7	12	16	22	26	28	29	29	27	13	0	1	1	1	11	10.1	29.1		
9-Oct-06	12	9	A	5	3	4	4	1	3	10	13	20	29	37	38	38	36	32	23	25	26	26	25	26	19.3	38.0		
10-Oct-06	25	A	26	26	20	6	2	1	2	14	17	25	27	30	30	29	27	25	22	20	19	17	19	18	19.4	29.7		
11-Oct-06	A	16	14	8	6	5	12	9	9	9	8	7	10	13	14	14	11	9	1	0	0	0	1	A	8.1	16.5		
12-Oct-06	0	0	0	0	0	0	0	1	0	1	8	12	10	15	11	13	12	9	5	4	5	3	A	5	5.0	15.2		
13-Oct-06	4	6	5	7	5	1	0	0	1	4	7	10	14	17	18	19	16	11	9	7	6	A	8	8	8.0	19.0		
14-Oct-06	9	8	13	12	7	5	5	1	3	4	5	4	5	4	3	1	0	0	0	A	0	0	0	0	4.2	12.8		
15-Oct-06	0	0	0	0	0	0	0	0	4	6	6	7	8	9	9	9	9	8	7	A	7	7	11	13	5.3	13.4		
16-Oct-06	16	16	18	19	19	20	19	16	18	19	19	20	19	19	22	21	21	22	A	26	26	28	27	28	20.7	28.1		
17-Oct-06	29	28	26	23	17	7	0	1	5	7	13	16	20	20	22	17	19	A	18	11	26	30	30	24	17.8	29.7		
18-Oct-06	19	7	3	3	12	19	7	6	2	5	12	17	28	28	25	22	A	12	16	19	16	16	16	17	14.2	28.4		
19-Oct-06	16	13	14	11	9	1	0	0	0	0	0	1	4	13	17	A	24	25	30	27	24	22	22	21	12.8	29.7		
20-Oct-06	21	20	20	23	18	7	3	1	1	8	22	24	28	32	A	33	31	16	0	0	9	6	4	3	14.4	33.1		
21-Oct-06	4	1	1	0	0	0	0	0	1	2	8	11	13	A	19	22	21	10	5	5	6	2	0	0	5.7	22.0		
22-Oct-06	0	0	0	0	0	0	0	0	0	0	1	1	2	A	5	6	5	2	0	0	19	35	35	32	30	7.6	35.0	
23-Oct-06	26	26	26	27	26	22	9	15	11	15	24	A	31	27	26	21	15	21	12	12	10	14	22	25	20.1	31.4		
24-Oct-06	27	26	27	25	17	7	1	0	1	1	A	14	17	29	31	25	27	22	13	26	23	17	25	26	18.5	31.1		
25-Oct-06	25	24	27	25	22	A	20	10	13	18	26	31	33	32	31	29	27	28	25	29	33	34	31	27	26.0	33.7		
26-Oct-06	30	35	35	31	A	24	19	23	14	25	32	35	C	C	A	35	33	24	21	24	26	24	24	26	27.0	35.1		
27-Oct-06	23	24	21	22	25	A	9	5	7	9	9	17	25	23	22	22	30	20	21	19	20	24	26	27	19.6	30.0		
28-Oct-06	30	33	33	32	A	30	28	27	24	27	32	31	29	27	29	28	27	26	26	27	24	26	29	29	28.4	33.0		
29-Oct-06	29	27	21	A	20	23	26	24	26	28	29	29	31	33	34	33	36	35	D	D	D	D	D	D	N	36.3		
30-Oct-06	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	N	N	N	N	N	N	N	N	-	
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	30	30	27	23	10	2	A	1	1	2	1	2	N	30.5
Hourly Avg	16.2	15.2	15.1	14.4	11.5	8.9	6.7	6.1	7.2	11.0	15.5	18.7	22.3	24.1	24.3	24.2	23.2	19.8	14.0	13.9	15.2	14.3	14.9	15.3				
Hourly Max	30.5	35.1	35.1	32.2	25.6	30.2	27.7	26.7	26.4	28.2	35.2	34.8	35.5	36.6	37.7	38.0	36.4	34.8	29.7	29.3	35.0	35.0	31.9	30.2				

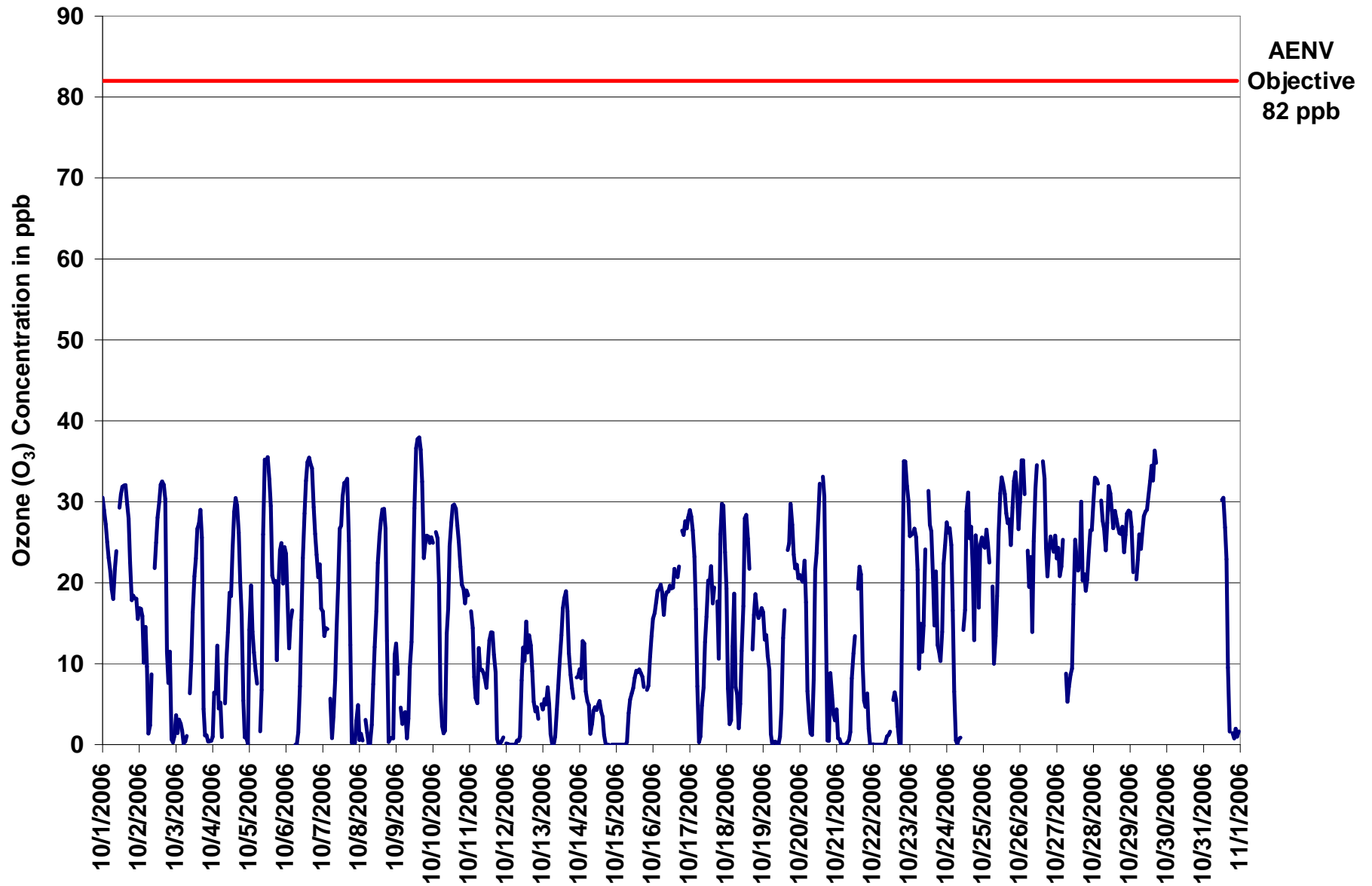


Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

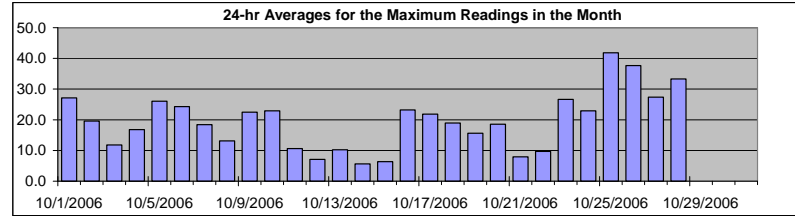
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	63.1	ppb	25-Oct	13:00 14:00
Maximum 24-hr Value:	41.8	ppb	25-Oct	



AIC Time:	33 hrs	Operational Time:	668 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	94.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	51.4	37.6	29.6	20.8	7.9	1.0	0.2	19.8 ppb	20.8 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	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-Oct-06	32	31	28	27	26	23	22	23	23	27	A	32	33	33	35	35	31	30	29	22	21	20	20	19	27.1	35.5	
2-Oct-06	19	19	18	14	17	13	6	8	16	A	24	28	30	32	35	34	34	34	28	14	18	6	1	3	19.6	34.6	
3-Oct-06	7	4	5	4	5	1	3	2	A	9	15	20	24	26	30	31	31	31	14	2	3	1	1	1	11.8	31.3	
4-Oct-06	4	15	11	16	8	14	2	A	7	14	18	23	24	28	36	34	33	33	26	23	12	2	3	1	16.8	35.5	
5-Oct-06	28	29	21	19	18	13	A	5	14	36	38	37	38	35	33	25	26	25	20	28	29	29	25	28	26.0	37.6	
6-Oct-06	27	23	17	21	19	A	0	1	3	14	22	28	34	34	37	37	37	36	34	31	27	26	28	22	24.3	37.4	
7-Oct-06	19	17	18	16	A	9	3	10	13	18	27	29	30	33	33	35	35	29	23	3	4	4	7	7	18.4	35.4	
8-Oct-06	4	4	3	A	10	4	2	2	5	10	16	21	25	28	29	31	31	30	24	1	2	2	3	17	13.1	30.8	
9-Oct-06	16	16	A	9	5	6	8	2	8	13	17	28	34	38	39	41	38	34	29	27	28	28	27	27	22.5	40.5	
10-Oct-06	27	A	28	27	25	16	9	7	4	23	22	27	30	31	32	32	30	28	24	23	21	20	21	20	22.9	32.1	
11-Oct-06	A	18	16	13	8	8	16	11	12	11	10	9	13	14	15	16	14	15	4	1	2	2	6	A	10.6	18.2	
12-Oct-06	1	1	1	0	0	0	1	2	1	2	12	13	13	18	17	17	17	11	7	7	9	5	A	7	7.1	17.9	
13-Oct-06	8	7	6	9	7	5	1	1	4	6	10	14	15	19	21	21	21	15	10	10	7	A	10	10	10.3	21.5	
14-Oct-06	11	11	14	14	12	7	7	3	4	6	6	5	6	7	5	5	2	1	3	0	A	1	0	0	5.6	13.9	
15-Oct-06	0	0	0	0	0	0	0	3	5	7	7	9	10	10	10	10	10	10	9	A	8	9	13	15	6.4	15.4	
16-Oct-06	17	18	19	21	21	21	21	18	21	21	21	22	22	23	24	24	26	27	A	30	28	29	29	31	23.2	31.4	
17-Oct-06	31	30	29	24	23	13	2	3	8	8	17	18	24	24	27	22	25	A	27	26	28	32	32	29	21.9	32.4	
18-Oct-06	25	16	8	8	24	25	13	12	5	8	15	29	30	30	28	25	A	19	21	21	18	18	19	18	19.0	29.8	
19-Oct-06	18	16	16	14	12	8	2	1	1	1	1	2	7	19	19	A	30	31	33	31	26	23	24	23	15.6	33.2	
20-Oct-06	22	22	22	25	22	11	10	4	3	17	25	25	33	34	A	35	33	32	3	5	15	10	9	7	18.5	35.2	
21-Oct-06	8	6	4	0	1	0	0	2	2	4	12	14	16	A	22	24	23	13	9	7	8	4	1	1	8.0	23.7	
22-Oct-06	1	0	1	1	0	0	2	1	1	2	3	3	A	8	10	8	4	1	0	35	37	37	35	32	9.7	37.4	
23-Oct-06	29	28	28	30	30	27	16	23	19	20	31	A	36	33	32	30	25	26	21	28	28	20	27	27	26.6	35.6	
24-Oct-06	31	28	31	30	23	13	5	1	3	2	A	20	21	34	37	32	33	27	22	29	27	22	28	27	22.9	36.6	
25-Oct-06	60	46	46	32	51	A	27	32	52	37	40	35	36	63	43	62	56	42	31	34	36	35	35	31	41.8	63.1	
26-Oct-06	52	38	37	36	A	26	30	29	49	29	40	51	C	C	A	48	44	39	25	32	28	52	36	30	37.7	52.2	
27-Oct-06	42	49	43	30	31	A	15	9	12	13	16	23	29	28	25	34	38	29	28	21	23	32	31	28	27.4	49.2	
28-Oct-06	36	36	35	34	A	33	32	29	27	32	35	33	33	30	32	30	29	28	30	30	28	39	51	49	33.3	50.6	
29-Oct-06	30	40	26	A	33	28	28	28	29	30	30	30	32	34	39	45	38	37	D	D	D	D	D	D	N	44.6	
30-Oct-06	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	N	N	N	N	N	N	N	N	-
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	32	32	30	27	24	4	A	3	2	5	2	4	N	N	32.1
Hourly Avg	21.6	20.4	18.9	17.5	16.6	12.5	10.0	9.8	12.5	15.0	19.6	22.4	25.2	27.8	27.7	29.3	28.2	24.7	19.8	18.7	18.6	18.4	18.8	18.5			
Hourly Max	60.0	49.2	45.8	36.2	51.1	32.7	31.8	32.3	52.0	37.2	40.4	50.9	37.6	63.1	42.7	62.2	55.6	41.8	34.4	35.0	36.9	52.2	50.6	48.8			

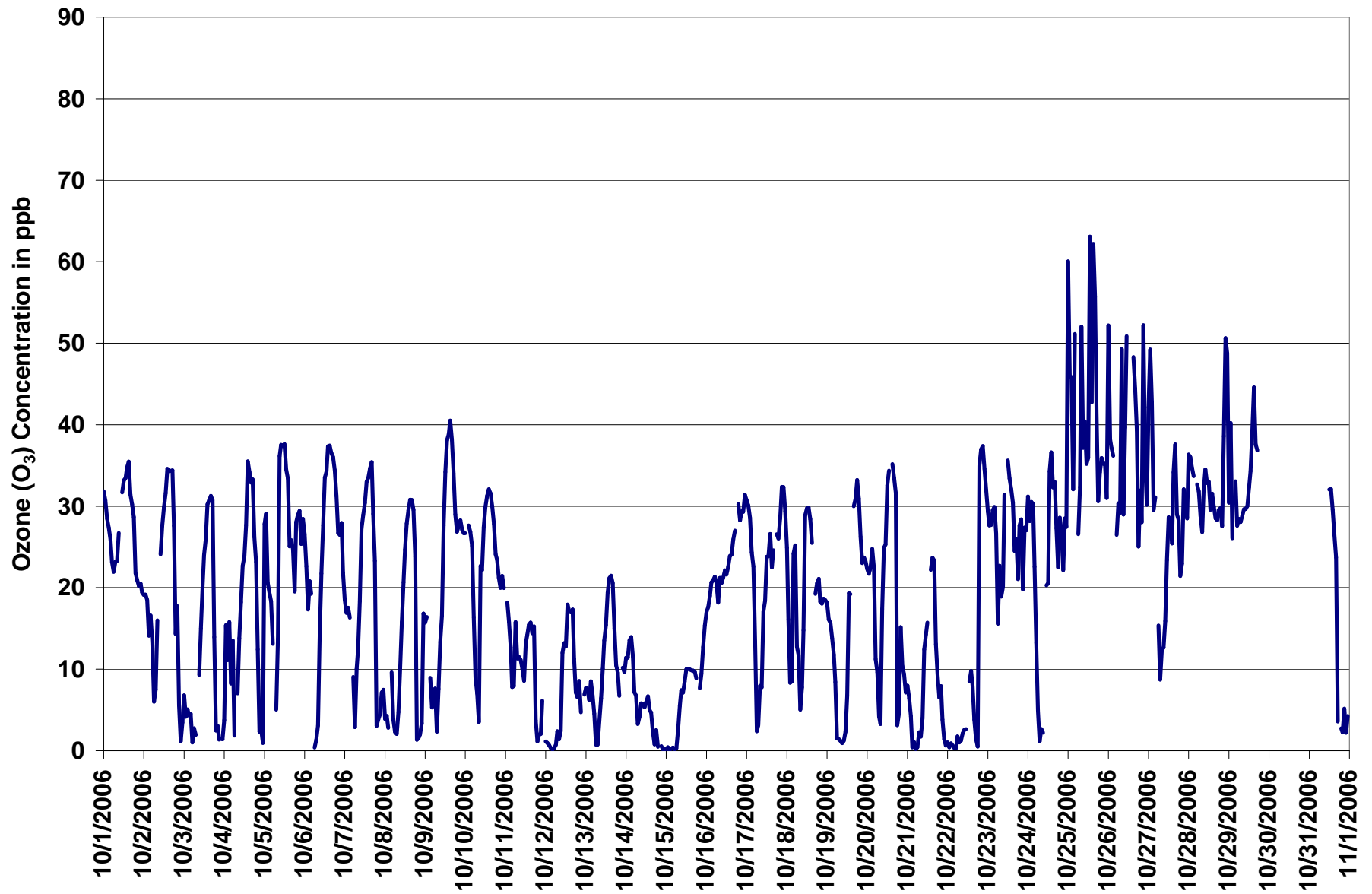
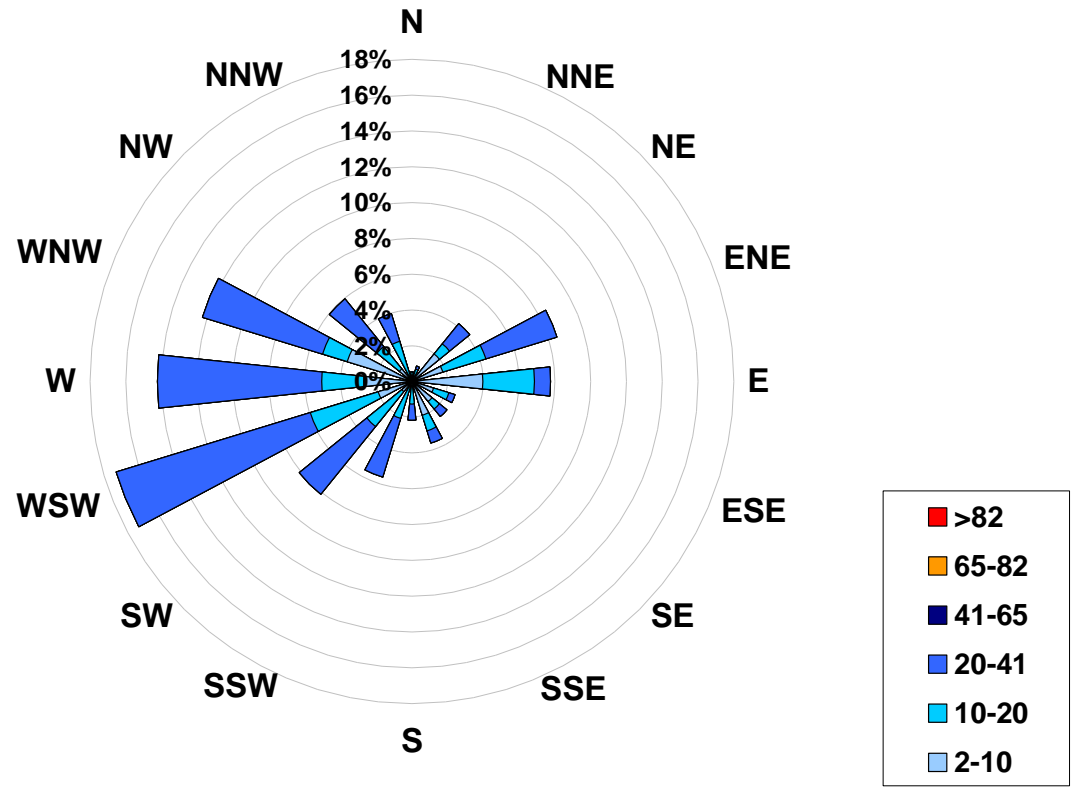


Figure 8. PASZA - Henry Pirker Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of O ₃ in ppb			
Range		Frequency (hrs)	
2.0	< 10		252
10	to 20		145
20	to 41		271
41	to 65		0
65	to 82		0
	> 82		0
Total Non-Zero Values			668

PASZA - Henry Pirker - Ozone Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

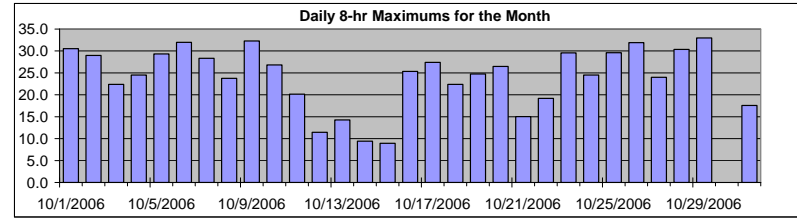
Ozone (O₃)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	33.0 ppb	29-Oct	18:00	19:00



Percentile	99	95	75	50	25	5	1
	31.7	29.3	23.5	16.0	8.1	1.1	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																								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-Oct-06	29	29	29	28	28	27	25	24	23	22	22	22	23	25	27	29	30	31	30	28	27	25	23	21	30.5
2-Oct-06	19	18	17	16	16	15	13	11	10	9	10	12	14	17	21	25	29	29	28	26	23	20	16	12	29.0
3-Oct-06	8	5	4	3	2	2	2	2	1	2	3	5	8	11	15	19	20	22	22	20	17	14	11	8	22.4
4-Oct-06	4	2	2	4	4	5	5	5	6	6	7	8	10	13	17	19	22	24	25	24	23	20	16	12	24.5
5-Oct-06	10	10	9	8	9	10	11	11	10	11	14	17	21	25	25	28	29	29	26	24	22	21	20	20	29.3
6-Oct-06	21	21	21	20	19	18	16	12	9	8	8	9	11	14	18	22	26	30	32	32	31	30	28	26	32.0
7-Oct-06	24	21	19	18	17	15	12	10	9	9	9	11	13	16	20	24	27	28	27	24	21	17	13	10	28.3
8-Oct-06	6	3	1	2	2	2	2	1	1	2	4	5	8	11	14	18	21	24	24	22	19	16	13	10	23.8
9-Oct-06	8	6	5	6	6	6	7	5	4	4	5	7	10	15	19	23	28	30	32	32	32	31	29	27	32.3
10-Oct-06	26	25	25	26	25	22	19	15	12	12	11	11	12	15	18	22	25	26	27	26	25	24	22	21	26.8
11-Oct-06	20	19	18	16	14	13	11	10	10	9	8	8	9	10	10	11	11	11	10	9	8	6	5	3	20.1
12-Oct-06	2	0	0	0	0	0	0	0	0	0	1	3	4	6	7	9	10	11	11	10	9	8	7	6	11.5
13-Oct-06	5	5	5	5	5	5	4	4	3	3	3	4	5	7	9	11	13	14	14	14	13	12	11	9	14.3
14-Oct-06	8	8	9	9	9	9	8	8	7	6	5	4	4	4	4	4	4	3	3	2	2	1	1	0	9.4
15-Oct-06	0	0	0	0	0	0	0	0	1	1	2	3	4	5	6	7	8	8	8	8	9	8	8	9	8.9
16-Oct-06	10	11	13	13	15	16	17	18	18	18	19	19	19	19	19	20	20	20	21	21	22	24	24	25	25.3
17-Oct-06	27	27	27	27	26	23	20	17	13	11	9	8	9	10	13	15	17	18	19	18	19	20	21	22	27.4
18-Oct-06	22	20	19	18	16	14	12	9	7	7	8	10	12	13	15	17	20	21	21	21	20	18	17	16	22.4
19-Oct-06	16	16	16	15	14	12	10	8	6	4	3	2	1	2	4	5	8	12	16	20	23	24	25	24	24.8
20-Oct-06	24	23	22	22	21	19	17	14	12	10	10	10	12	15	17	21	25	26	23	20	17	14	12	9	26.5
21-Oct-06	5	3	3	3	2	2	1	1	0	0	1	3	4	5	8	11	14	15	15	14	13	11	9	6	15.0
22-Oct-06	4	2	2	1	0	0	0	0	0	0	0	1	1	1	2	3	3	3	3	6	9	13	16	19	19.2
23-Oct-06	22	25	29	30	28	27	24	22	20	19	19	17	18	19	21	22	23	24	22	21	18	16	16	16	29.6
24-Oct-06	18	19	20	22	23	22	19	16	13	10	7	6	6	9	13	17	21	24	22	24	25	23	22	22	24.5
25-Oct-06	22	22	24	24	24	25	24	22	20	19	19	20	22	23	24	27	28	30	29	29	29	29	29	29	29.6
26-Oct-06	29	30	32	32	32	30	29	28	26	25	24	25	25	N	N	N	N	N	N	N	N	27	26	25	31.9
27-Oct-06	24	24	24	24	24	24	21	18	16	14	12	12	12	13	15	17	20	21	23	23	22	22	23	23	24.0
28-Oct-06	23	25	27	28	29	30	30	30	29	29	29	28	28	28	28	28	28	29	29	28	27	27	27	27	30.4
29-Oct-06	27	27	26	26	26	25	25	24	24	24	25	26	27	28	29	30	32	32	33	N	N	N	N	N	33.0
30-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	18	13	9	6	3	17.6

Hourly Max	29.5	30.4	31.7	31.9	31.8	30.4	30.4	30.4	29.5	28.7	28.6	28.4	28.5	28.2	29.3	30.3	31.6	32.4	33.0	32.3	31.9	30.5	29.4	29.1
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PASZA - Henry Pirker - Carbon Monoxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

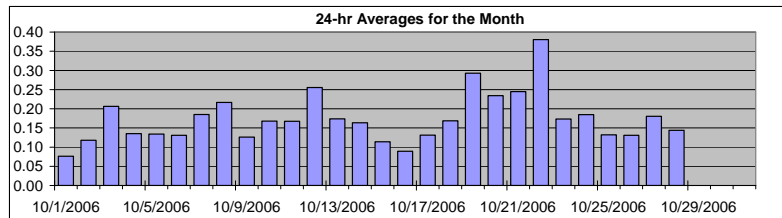
Carbon Monoxide (CO)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Summary

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	1.1 ppm	3-Oct	20:00	21:00
Maximum 24-hr Value:	0.4 ppm	22-Oct		



AIC Time:	33 hrs	Operational Time:	661 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	93.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.8	0.5	0.2	0.1	0.1	0.0	0.0	0.2 ppm	0.1 ppm

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum					
	Hour Start	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-Oct-06	0:00	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.08	0.13
2-Oct-06	1:00	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.3	0.1	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.2	0.3	0.5	0.1	0.1	0.1	0.1	0.12	0.46	
3-Oct-06	2:00	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.5	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.9	1.1	0.6	0.4	0.1	0.1	0.1	0.21	1.13		
4-Oct-06	3:00	0.0	0.0	0.0	0.0	0.1	0.1	0.2	A	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3	0.5	0.6	0.4	0.1	0.1	0.14	0.56		
5-Oct-06	4:00	0.1	0.1	0.1	0.1	0.2	0.2	A	0.3	0.2	0.0	0.0	C	C	A	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.13	0.31		
6-Oct-06	5:00	0.1	0.1	0.1	0.1	0.1	A	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.13	0.34		
7-Oct-06	6:00	0.1	0.1	0.1	0.1	A	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.6	1.1	0.3	0.2	0.1	0.1	0.1	0.19	1.11		
8-Oct-06	7:00	0.2	0.1	0.1	A	0.0	0.0	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.7	0.7	0.9	0.6	0.1	0.1	0.1	0.22	0.87		
9-Oct-06	8:00	0.1	0.1	A	0.1	0.1	0.1	0.1	0.3	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.13	0.44		
10-Oct-06	9:00	0.1	A	0.1	0.1	0.1	0.1	0.2	0.4	0.6	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.17	0.57		
11-Oct-06	10:00	A	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.4	A	0.1	0.17	0.37			
12-Oct-06	11:00	0.1	0.1	0.1	0.1	0.1	0.4	0.6	1.1	1.0	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	A	0.1	0.1	0.26	1.08			
13-Oct-06	12:00	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.6	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	A	0.1	0.1	0.17	0.57			
14-Oct-06	13:00	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.16	0.25			
15-Oct-06	14:00	0.2	0.2	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	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.11	0.20			
16-Oct-06	15:00	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.0	0.1	0.09	0.18			
17-Oct-06	16:00	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	A	A	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.13	0.37			
18-Oct-06	17:00	0.1	0.2	0.3	0.2	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	A	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.17	0.32			
19-Oct-06	18:00	0.1	0.1	0.1	0.1	0.2	0.4	0.5	0.5	0.7	0.6	0.7	0.8	0.3	0.2	0.2	A	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.29	0.79			
20-Oct-06	19:00	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.3	0.2	0.1	0.1	0.1	0.1	A	0.1	0.1	0.4	0.6	0.8	0.3	0.2	0.2	0.3	0.2	0.23	0.76			
21-Oct-06	20:00	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.3	0.2	0.2	A	0.1	0.1	0.1	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.24	0.58			
22-Oct-06	21:00	0.2	0.3	0.6	0.5	0.5	0.5	0.4	0.6	0.5	0.5	0.5	0.4	A	0.5	0.4	0.3	0.5	0.5	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.38	0.59			
23-Oct-06	22:00	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	A	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.17	0.35			
24-Oct-06	23:00	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.7	0.9	A	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.18	0.93			
25-Oct-06	0:00	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.13	0.19			
26-Oct-06	1:00	0.1	0.1	0.1	0.1	A	0.1	0.2	0.1	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.13	0.19			
27-Oct-06	2:00	0.1	0.1	0.1	0.1	0.1	A	0.2	0.2	0.2	0.2	0.2	0.3	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	0.18	0.25			
28-Oct-06	3:00	0.1	0.1	0.1	0.1	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.14	0.20			
29-Oct-06	4:00	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	D	D	D	D	D	D	D	N	0.23			
30-Oct-06	5:00	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	N	N	N	N	N	N	N	N	N	-		
31-Oct-06	6:00	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	A	0.3	0.3	0.3	0.3	0.2	0.1	N	0.34			
Hourly Avg	0:00	0.10	0.10	0.11	0.11	0.12	0.16	0.24	0.31	0.29	0.23	0.16	0.15	0.11	0.12	0.12	0.12	0.14	0.15	0.22	0.27	0.26	0.22	0.20	0.13						
Hourly Max	0:00	0.19	0.25	0.58	0.53	0.53	0.50	0.58	1.08	1.02	0.93	0.74	0.79	0.31	0.50	0.36	0.31	0.48	0.45	0.59	0.94	1.13	0.87	0.62	0.38						

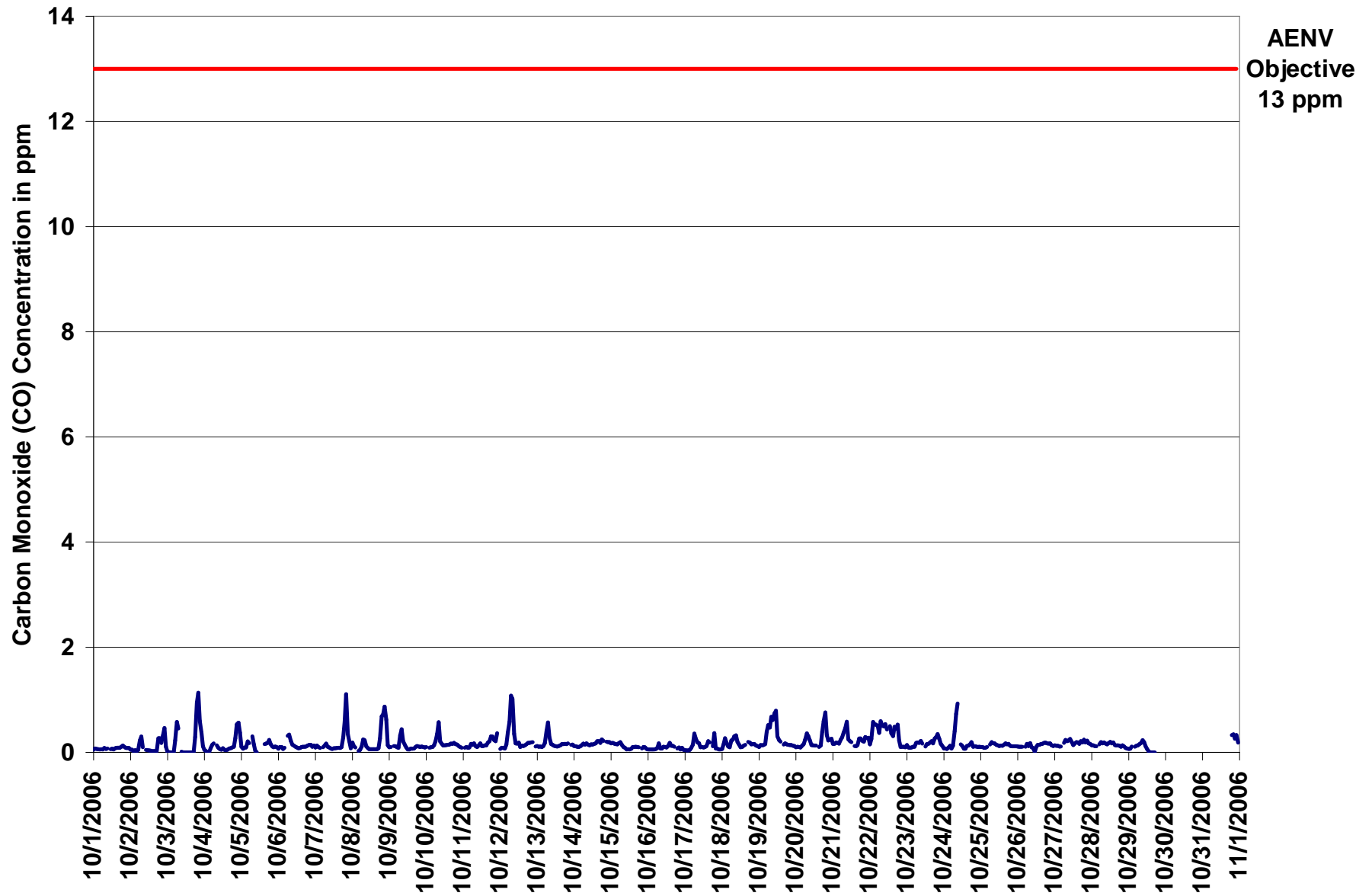


Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

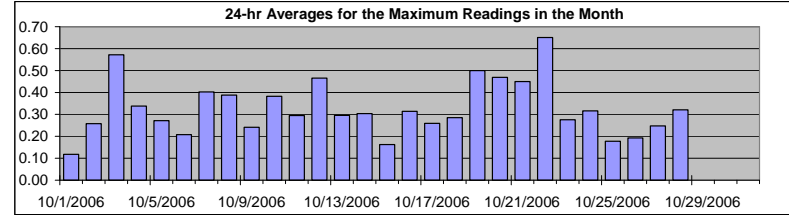
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	4.4	ppm	3-Oct	6:00 7:00
Maximum 24-hr Value:	0.7	ppm	22-Oct	



AIC Time:	33 hrs	Operational Time:	661 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	93.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.8	1.0	0.3	0.2	0.1	0.1	0.0	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																								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-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.12	0.19	
2-Oct-06	0.1	0.1	0.1	0.1	0.2	0.1	0.6	0.8	0.2	A	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.2	0.6	0.8	0.3	0.5	0.9	0.2	0.26	0.95	
3-Oct-06	0.0	0.1	0.0	0.0	0.0	1.3	4.4	0.8	A	0.1	0.1	0.0	0.0	0.0	0.0	0.4	0.0	0.1	0.8	1.7	1.4	0.9	0.8	0.2	0.57	4.38	
4-Oct-06	0.1	0.1	0.0	0.0	0.6	2.1	0.3	A	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.8	0.8	0.8	0.7	0.34	2.13	
5-Oct-06	0.3	0.1	0.1	0.3	0.7	0.8	A	0.4	0.4	0.2	0.1	C	C	A	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.27	0.78	
6-Oct-06	0.1	0.1	0.2	0.1	0.2	A	0.8	0.6	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.21	0.80	
7-Oct-06	0.1	0.4	0.2	0.1	A	0.3	0.3	0.3	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.9	1.1	2.9	1.0	0.5	0.1	0.40	2.91	
8-Oct-06	0.3	0.4	0.2	A	0.2	0.2	0.3	0.8	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0	1.1	0.9	1.1	1.0	0.3	0.39	1.12	
9-Oct-06	0.2	0.2	A	0.2	0.2	0.1	0.2	0.9	1.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.24	1.33	
10-Oct-06	0.1	A	0.1	0.1	0.1	0.2	0.3	0.9	2.8	0.4	0.3	0.2	0.2	0.7	0.2	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.38	2.77	
11-Oct-06	A	0.2	0.2	0.1	0.1	0.5	0.4	0.5	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.5	0.4	0.6	0.4	0.3	0.6	A	0.30	0.60	
12-Oct-06	0.1	0.2	0.1	0.1	0.4	1.2	1.3	1.5	1.8	0.7	0.3	0.2	0.5	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	A	0.2	0.47	1.78	
13-Oct-06	0.3	0.2	0.2	0.1	0.3	0.4	1.1	0.8	0.5	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	A	0.2	0.2	0.30	1.10	
14-Oct-06	0.2	0.1	0.2	0.3	0.3	0.2	0.4	0.4	0.4	0.2	0.2	0.3	0.2	0.3	0.3	0.9	0.3	0.2	0.4	0.3	A	0.4	0.3	0.3	0.30	0.91	
15-Oct-06	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2	A	0.2	0.1	0.1	0.1	0.16	0.28	
16-Oct-06	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.9	0.2	0.3	0.4	0.4	0.3	0.7	1.3	0.5	0.3	0.2	A	0.2	0.2	0.1	0.3	0.1	0.31	1.31	
17-Oct-06	0.0	0.1	0.1	0.1	0.1	0.2	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.3	A	0.3	2.0	0.2	0.2	0.1	0.1	0.26	1.99	
18-Oct-06	0.1	0.3	0.8	0.3	0.3	0.2	0.3	0.4	0.6	0.4	0.5	0.3	0.1	0.1	0.2	0.3	A	0.3	0.4	0.2	0.2	0.3	0.2	0.2	0.29	0.76	
19-Oct-06	0.1	0.2	0.3	0.2	0.2	1.8	0.7	0.6	1.9	0.7	1.1	1.1	0.4	0.3	0.3	A	0.2	0.3	0.2	0.2	0.2	0.1	0.2	0.1	0.50	1.88	
20-Oct-06	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.6	0.4	0.3	0.2	0.2	0.1	0.2	A	0.1	0.2	1.4	1.1	1.3	1.3	0.4	0.8	0.8	0.47	1.41	
21-Oct-06	0.3	0.3	0.3	0.3	0.3	0.6	0.5	0.8	0.7	0.8	0.5	0.3	0.3	A	0.2	0.2	0.2	0.5	0.5	0.3	1.3	0.4	0.5	0.5	0.45	1.27	
22-Oct-06	0.2	0.5	1.4	0.7	0.7	1.0	1.5	1.2	0.6	0.6	0.7	0.5	A	0.8	0.4	0.4	0.7	0.6	1.3	0.7	0.1	0.2	0.1	0.1	0.65	1.49	
23-Oct-06	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.2	A	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.6	0.7	0.4	0.2	0.2	0.28	0.66	
24-Oct-06	0.1	0.1	0.1	0.2	0.4	0.1	0.2	0.8	1.7	1.2	A	0.4	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.32	1.67	
25-Oct-06	0.1	0.1	0.1	0.1	0.1	A	0.2	0.3	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	0.1	0.2	0.2	0.18	0.29	
26-Oct-06	0.2	0.1	0.1	0.1	A	0.2	0.7	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.69	
27-Oct-06	0.2	0.2	0.2	0.2	0.2	A	0.2	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.25	0.37	
28-Oct-06	0.2	0.2	0.2	0.2	A	0.4	0.8	0.5	0.3	0.3	0.3	0.3	0.6	0.4	0.5	0.2	0.2	0.3	0.2	0.1	0.5	0.2	0.2	0.2	0.32	0.82	
29-Oct-06	0.1	0.1	0.2	A	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	D	D	D	D	D	D	N	0.33	
30-Oct-06	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	N	N	N	N	N	N	N	N	-
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	A	0.4	0.5	0.5	0.5	0.6	N	0.58	
Hourly Avg	0.15	0.17	0.21	0.17	0.25	0.49	0.62	0.59	0.60	0.33	0.26	0.24	0.18	0.21	0.23	0.22	0.21	0.27	0.41	0.51	0.50	0.35	0.35	0.23			
Hourly Max	0.32	0.53	1.36	0.73	0.72	2.13	4.38	1.54	2.77	1.16	1.09	1.14	0.62	0.78	1.31	0.91	0.70	1.41	1.27	1.99	2.91	1.08	0.95	0.79			

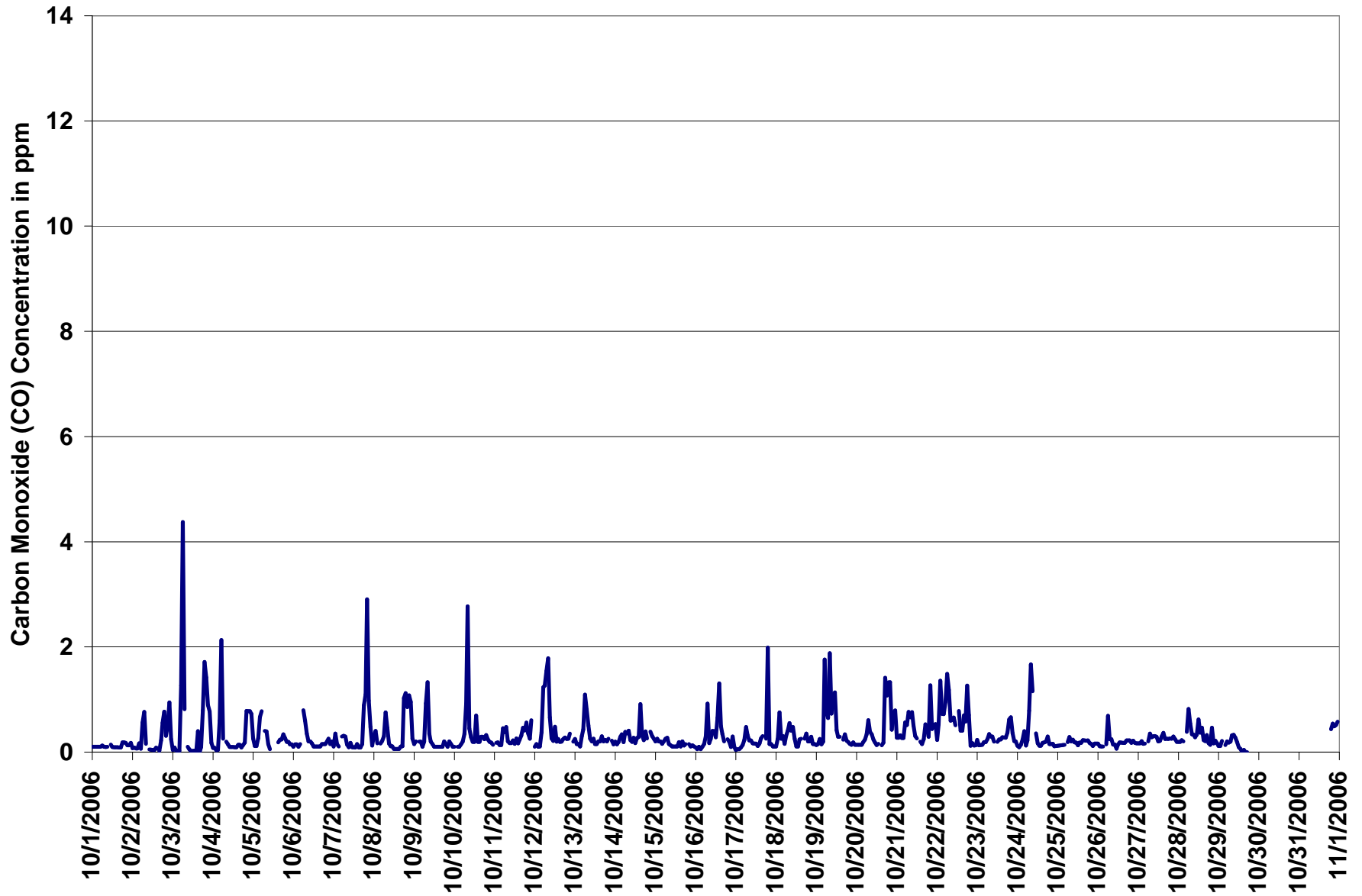
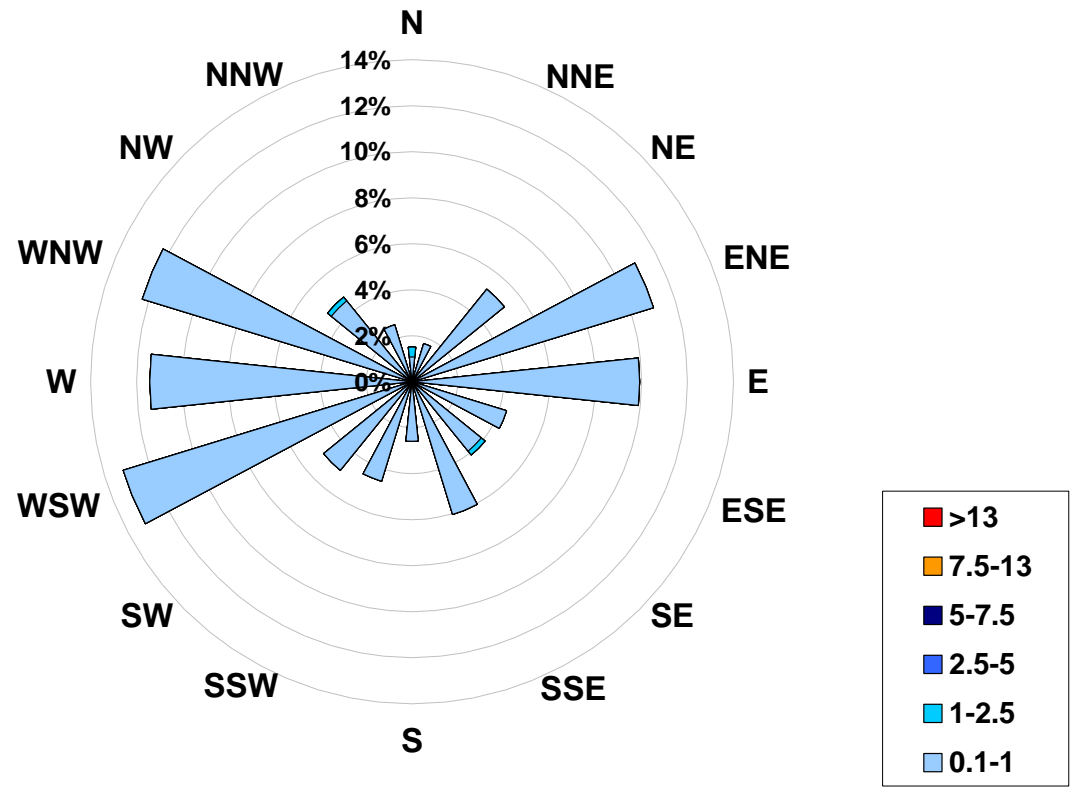


Figure 10. PASZA - Henry Pirker Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of CO in ppm			
Range			Frequency (hrs)
0.1	<	1	657
1	to	2.5	4
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
	>	13	0
Total Non-Zero Values			661

PASZA - Henry Pirker - Carbon Monoxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

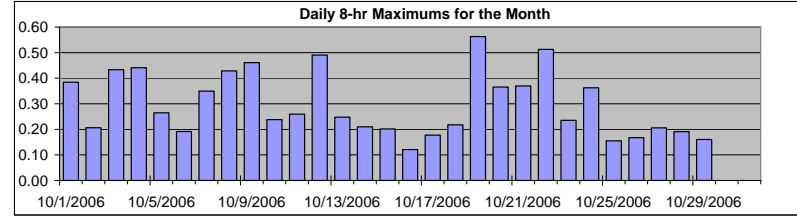
EIGHT HOUR RUNNING AVERAGE TABLE

Carbon Monoxide (CO)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	0.6	ppm	19-Oct	12:00 13:00



Percentile	99	95	75	50	25	5	1
	0.5	0.4	0.2	0.1	0.1	0.1	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																							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-Oct-06	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	0:38	
2-Oct-06	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.21
3-Oct-06	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.43
4-Oct-06	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.44
5-Oct-06	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	N	N	N	N	N	N	N	N	N	N	N	0.2	0.2	0.2	0.1	0.26
6-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.19
7-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.35
8-Oct-06	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.4	0.43
9-Oct-06	0.4	0.4	0.5	0.4	0.3	0.2	0.1	0.1	0.2	0.2	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	0.1	0.1	0.1	0.46
10-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.24
11-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.26
12-Oct-06	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.49
13-Oct-06	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	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	0.2	0.2	0.2	0.25
14-Oct-06	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
15-Oct-06	0.2	0.2	0.2	0.2	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.20
16-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.12
17-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.18
18-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.22
19-Oct-06	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.56
20-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.37
21-Oct-06	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.37
22-Oct-06	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.51
23-Oct-06	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
24-Oct-06	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.36
25-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.16
26-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.17
27-Oct-06	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	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-Oct-06	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.19
29-Oct-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	N	N	N	N	N	N	0.16
30-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.00

Hourly Max 0.44 0.44 0.46 0.38 0.36 0.39 0.40 0.44 0.48 0.51 0.51 0.54 0.56 0.54 0.50 0.51 0.45 0.44 0.44 0.41 0.37 0.37 0.42 0.43

PASZA - Henry Pirker - Total Hydrocarbons Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

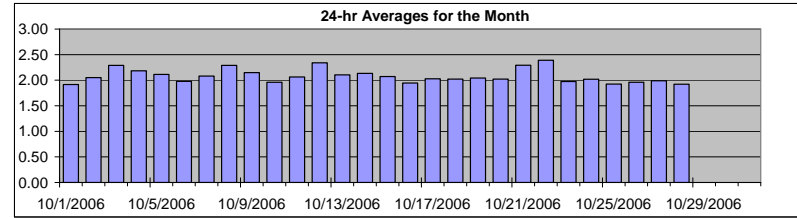
HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Summary			
Maximum 1-hr Average:	3.1	ppm	12-Oct 7:00 8:00
Maximum 24-hr Value:	2.4	ppm	22-Oct



AIC Time:	33 hrs	Operational Time:	667 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	94.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.8	2.5	2.1	2.0	1.9	1.9	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	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-Oct-06	1:00	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.92	2.00	
2-Oct-06	2:00	2.0	2.0	2.0	2.1	2.0	2.0	2.1	2.1	2.0	A	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.1	2.1	2.1	2.2	2.4	2.2	2.05	2.37
3-Oct-06	3:00	2.1	2.2	2.2	2.2	2.3	2.5	2.5	2.4	A	2.2	2.1	2.0	2.1	2.0	2.0	2.0	2.1	2.1	2.3	2.8	2.8	2.7	2.7	2.4	2.29	2.81	
4-Oct-06	4:00	2.4	2.2	2.2	2.1	2.1	2.1	2.2	A	2.5	2.2	2.2	2.1	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	1.9	1.9	2.4	2.7	2.18	2.66
5-Oct-06	5:00	2.5	2.8	2.6	2.5	2.5	2.3	A	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	1.9	1.9	1.9	1.9	1.9	2.11	2.81	
6-Oct-06	6:00	1.9	2.0	2.0	2.0	2.0	A	2.1	2.1	2.3	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.98	2.25	
7-Oct-06	7:00	2.0	2.0	2.0	2.0	A	2.0	2.1	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.4	2.7	2.1	2.1	2.2	2.08	2.71	
8-Oct-06	8:00	2.3	2.3	2.3	A	2.3	2.5	2.7	2.7	2.4	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.4	2.4	2.5	2.6	2.2	2.29	2.75	
9-Oct-06	9:00	2.1	2.2	A	2.4	2.4	2.6	2.5	2.6	2.5	2.4	2.4	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.15	2.63	
10-Oct-06	10:00	1.9	A	1.9	1.9	1.9	2.0	2.0	2.1	2.2	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	2.0	1.9	1.96	2.20	
11-Oct-06	11:00	A	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.3	2.2	2.2	2.2	2.4	A	2.06	2.43	
12-Oct-06	12:00	2.3	2.4	2.4	2.6	2.7	2.8	2.9	3.1	3.0	2.6	2.2	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	A	2.1	2.34	3.10	
13-Oct-06	13:00	2.1	2.2	2.1	2.1	2.1	2.2	2.3	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	A	2.0	2.0	2.10	2.27	
14-Oct-06	14:00	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.2	2.3	2.3	A	2.3	2.3	2.13	2.32	
15-Oct-06	15:00	2.2	2.3	2.2	2.2	2.4	2.3	2.3	2.2	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.07	2.39	
16-Oct-06	16:00	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	A	1.9	2.0	1.9	1.9	2.0	1.95	1.98	
17-Oct-06	17:00	1.9	1.9	2.0	2.0	2.0	2.1	2.2	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.1	1.9	1.9	1.9	1.9	2.03	2.24	
18-Oct-06	18:00	2.0	2.1	2.2	2.2	2.4	2.1	1.9	2.0	2.0	2.1	2.3	2.0	1.9	1.9	1.9	1.9	1.9	A	2.0	2.0	2.0	2.0	2.0	2.0	2.02	2.40	
19-Oct-06	19:00	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.4	2.5	2.1	2.0	2.1	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.04	2.46	
20-Oct-06	20:00	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	1.9	1.9	1.9	A	1.9	1.9	2.0	2.1	2.3	2.1	2.0	2.1	2.2	2.02	2.32	
21-Oct-06	21:00	2.2	2.2	2.3	2.5	3.0	2.8	2.5	2.5	2.8	2.9	2.3	2.1	2.1	A	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.29	2.95	
22-Oct-06	22:00	2.1	2.3	2.7	2.6	2.6	2.6	2.4	2.5	2.5	2.6	3.0	2.8	A	2.5	2.5	2.2	2.4	2.4	2.4	2.0	1.9	1.9	1.9	1.9	2.39	3.03	
23-Oct-06	23:00	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	A	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	1.97	2.09	
24-Oct-06	0:00	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.2	2.4	2.5	A	2.2	2.2	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.02	2.51	
25-Oct-06	1:00	1.9	1.9	1.9	1.9	1.9	A	1.9	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.92	1.98	
26-Oct-06	2:00	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	2.0	2.0	C	C	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.96	2.01	
27-Oct-06	3:00	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	1.99	2.03	
28-Oct-06	4:00	2.0	1.9	1.9	1.9	A	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.92	1.95	
29-Oct-06	5:00	1.9	2.0	2.0	A	2.0	2.1	2.2	2.1	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	D	D	D	D	D	D	N	2.16	
30-Oct-06	6:00	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	N	N	N	N	N	N	N	-
31-Oct-06	7:00	N	N	N	N	N	N	N	N	N	N	N	N	N	N	2.0	2.1	2.1	2.1	2.3	A	2.2	2.2	2.2	2.3	2.3	N	2.33
Hourly Avg		2.05	2.09	2.09	2.10	2.16	2.18	2.17	2.19	2.20	2.16	2.10	2.05	2.00	2.00	2.00	1.98	1.99	2.01	2.05	2.08	2.07	2.07	2.09	2.06			
Hourly Max		2.50	2.81	2.69	2.60	2.95	2.84	2.86	3.10	3.01	2.88	3.03	2.75	2.19	2.54	2.52	2.20	2.45	2.43	2.43	2.76	2.81	2.65	2.68	2.66			

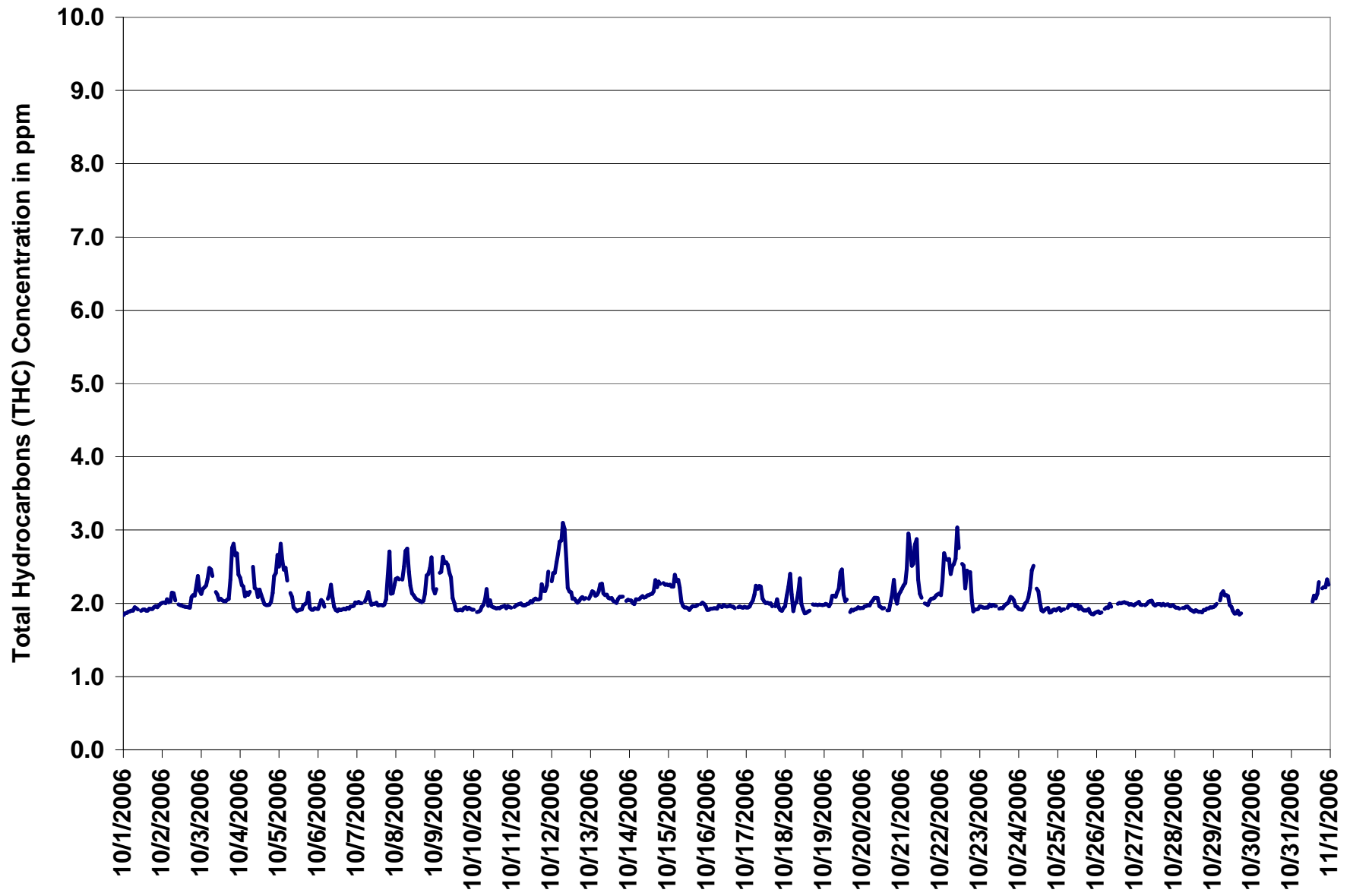


Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

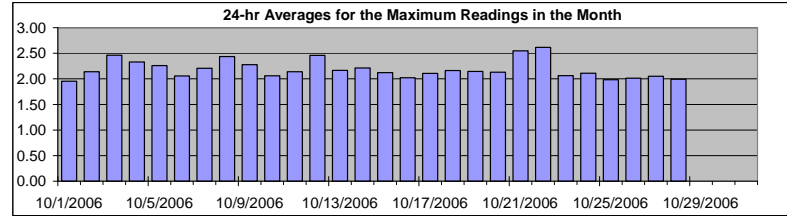
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Hydrocarbons (THC)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	3.8	ppm	18-Oct	9:00 10:00
Maximum 24-hr Value:	2.6	ppm	22-Oct	



AIC Time:	33 hrs	Operational Time:	667 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	94.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.3	2.8	2.3	2.1	2.0	1.9	1.9	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																							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-Oct-06	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	A	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.95	2.05
2-Oct-06	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.4	2.1	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.3	2.3	2.4	2.5	2.3	2.4	2.14	2.50
3-Oct-06	2.2	2.2	2.3	2.3	2.4	2.7	3.7	2.6	A	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.6	3.3	3.0	2.7	2.9	2.5	2.46	3.68	
4-Oct-06	2.5	2.5	2.3	2.2	2.3	2.8	2.3	A	2.7	2.3	2.5	2.1	2.3	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.3	2.5	2.6	2.9	2.33	2.86	
5-Oct-06	3.0	3.1	2.9	2.7	2.6	2.7	A	2.3	2.2	2.0	2.0	1.9	1.9	1.9	2.1	2.1	2.1	2.1	2.4	2.0	1.9	2.0	2.0	2.0	2.26	3.10	
6-Oct-06	2.0	2.0	2.1	2.1	2.0	A	2.2	2.5	2.5	2.2	2.0	2.0	1.9	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.06	2.51	
7-Oct-06	2.1	2.1	2.1	2.0	A	2.1	2.2	2.8	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.6	3.2	2.4	2.2	2.4	2.21	3.24	
8-Oct-06	2.4	2.6	2.4	A	2.6	2.7	2.8	3.0	2.7	2.4	2.2	2.2	2.1	2.1	2.2	2.1	2.1	2.1	2.6	2.6	2.6	2.6	2.8	2.4	2.44	3.02	
9-Oct-06	2.2	2.4	A	2.6	2.6	3.2	3.0	2.7	2.8	2.6	2.5	2.2	2.1	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	1.9	2.28	3.20		
10-Oct-06	1.9	A	1.9	1.9	2.0	2.0	2.0	2.3	2.8	2.1	2.2	2.0	2.0	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.06	2.80	
11-Oct-06	A	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.5	2.3	2.2	2.3	2.6	A	2.14	2.59	
12-Oct-06	2.4	2.5	2.5	2.7	2.8	3.1	3.2	3.3	3.3	2.8	2.4	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	A	2.1	2.46	3.29	
13-Oct-06	2.1	2.2	2.2	2.1	2.1	2.2	2.5	2.4	2.3	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	A	2.1	2.1	2.17	2.46	
14-Oct-06	2.1	2.2	2.0	2.0	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.5	2.3	2.4	2.3	A	2.4	2.3	2.3	2.21	2.51	
15-Oct-06	2.3	2.3	2.3	2.3	2.6	2.3	2.4	2.3	2.1	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	A	2.0	2.1	2.0	2.0	2.12	2.62	
16-Oct-06	2.0	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.0	2.1	2.0	A	2.0	2.0	2.0	2.0	2.0	2.02	2.14	
17-Oct-06	2.0	2.0	2.0	2.0	2.1	2.3	2.3	2.3	2.3	2.3	2.3	2.1	2.0	2.0	2.0	2.1	2.0	A	2.0	2.2	2.0	2.0	1.9	2.0	2.11	2.34	
18-Oct-06	2.0	2.2	2.4	2.5	2.5	1.9	2.0	2.1	2.2	3.8	2.1	2.0	1.9	1.9	1.9	1.9	A	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.16	3.79	
19-Oct-06	2.0	2.0	2.0	2.0	2.0	2.4	2.2	2.5	2.3	2.2	2.7	2.7	2.3	2.1	2.2	A	1.9	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.15	2.72	
20-Oct-06	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.0	2.0	2.0	2.0	A	1.9	1.9	2.2	2.4	2.7	2.6	2.1	2.3	2.4	2.13	2.66	
21-Oct-06	2.3	2.3	2.3	3.2	3.8	3.2	2.8	2.8	3.0	3.0	2.9	2.2	2.2	A	2.0	2.0	2.0	2.2	2.1	2.1	3.2	2.2	2.2	2.3	2.55	3.79	
22-Oct-06	2.3	2.6	3.3	2.9	2.8	2.9	2.8	2.7	2.6	3.0	3.4	2.9	A	2.8	2.8	2.4	2.6	2.6	2.7	2.5	1.9	1.9	1.9	1.9	2.61	3.44	
23-Oct-06	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.4	A	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.2	2.0	2.0	2.06	2.35	
24-Oct-06	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.4	2.7	2.6	A	2.4	2.4	2.3	1.9	1.9	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.11	2.66	
25-Oct-06	2.0	2.0	1.9	1.9	1.9	A	2.0	2.1	2.0	2.0	2.1	2.0	2.3	1.9	2.0	2.0	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.98	2.28	
26-Oct-06	1.9	1.9	1.9	1.9	A	2.0	2.1	2.0	2.1	2.0	C	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	2.01	2.13	
27-Oct-06	2.0	2.1	2.2	2.1	2.1	A	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.05	2.16	
28-Oct-06	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.2	2.0	2.0	2.0	2.1	1.9	1.9	1.9	1.9	1.9	2.1	2.0	2.0	2.0	1.99	2.16	
29-Oct-06	2.0	2.0	2.0	A	2.1	2.3	2.2	2.2	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	D	D	D	D	D	D	N	2.30	
30-Oct-06	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	N	N	N	N	N	N	N	-
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	2.4	2.1	2.1	2.2	2.5	A	2.3	2.4	2.3	2.5	2.5	N	2.53
Hourly Avg	2.13	2.18	2.18	2.20	2.30	2.35	2.34	2.37	2.33	2.29	2.25	2.13	2.08	2.08	2.07	2.04	2.06	2.08	2.17	2.21	2.22	2.14	2.17	2.14			
Hourly Max	3.01	3.10	3.30	3.22	3.79	3.20	3.68	3.29	3.29	3.79	3.44	2.86	2.39	2.77	2.78	2.37	2.58	2.57	2.70	3.30	3.24	2.75	2.88	2.86			

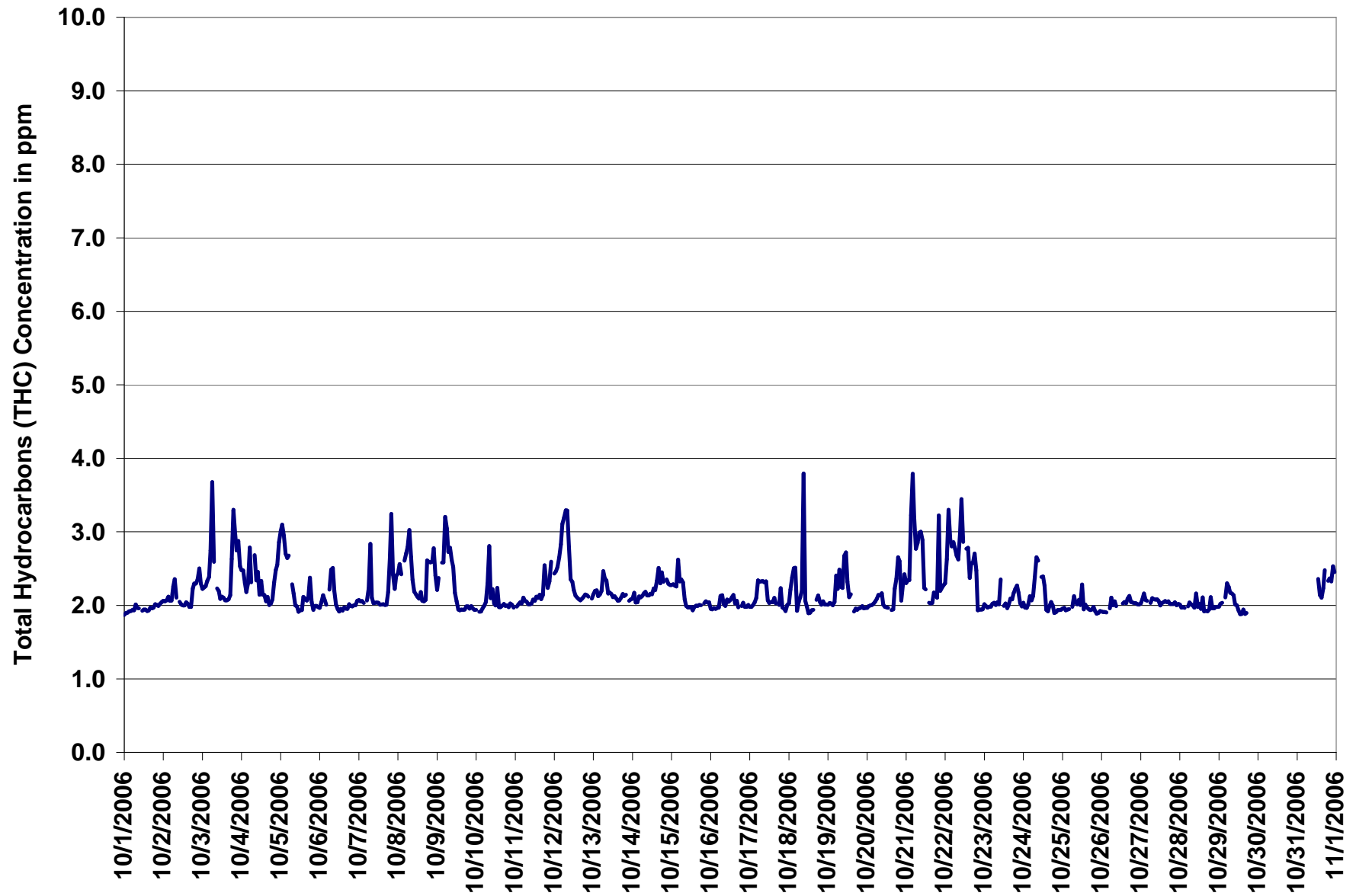
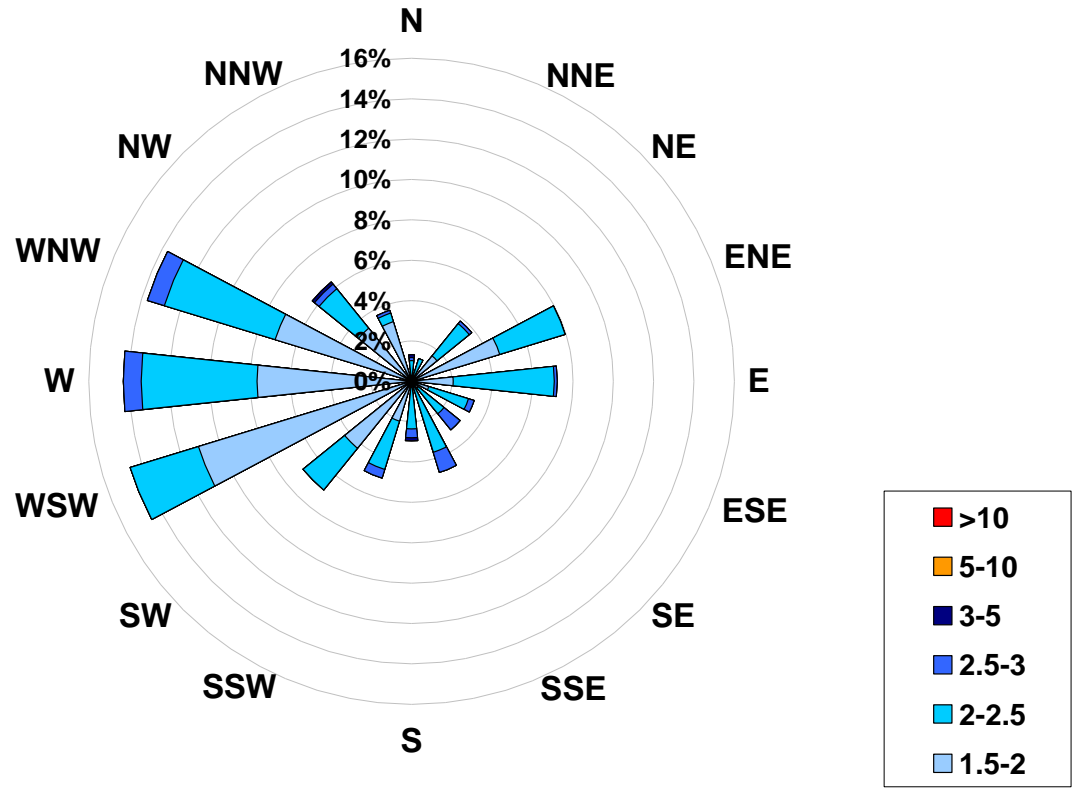


Figure 12. PASZA - Henry Pirker Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of THC in ppm Range			Frequency (hrs)
1.5	<	2	331
2	to	2.5	294
2.5	to	3	39
3	to	5	3
5	to	10	0
	>	10	0
Total Non-Zero Values			667

PASZA - Henry Pirker - Total Reduced Sulphur Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

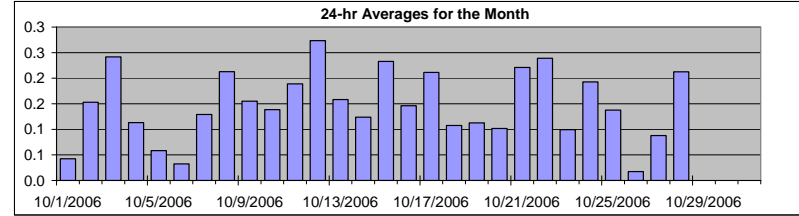
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Summary				
Maximum 1-hr Average:	0.8	ppb	12-Oct	8:00 9:00
Maximum 24-hr Value:	0.3	ppb	12-Oct	



AIC Time:	33 hrs	Operational Time:	666 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	94.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.5	0.4	0.2	0.1	0.1	0.0	0.0	0.2 ppb	0.1 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	0:00		
1-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	
2-Oct-06	0:00	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	0.3	
3-Oct-06	0:00	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	0.5	
4-Oct-06	0:00	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	0.1	0.3	
5-Oct-06	0:00	0	0	0	0	0	0	0	0	0	A	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
6-Oct-06	0:00	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	
7-Oct-06	0:00	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	0.1	0.4	
8-Oct-06	0:00	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	1	0	0.2	0.6
9-Oct-06	0:00	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	0.4	
10-Oct-06	0:00	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	0.1	0.3	
11-Oct-06	0:00	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	0.4	
12-Oct-06	0:00	0	0	0	0	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	0.8	
13-Oct-06	0:00	0	0	0	0	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	0.7	
14-Oct-06	0:00	0	0	0	0	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	
15-Oct-06	0:00	0	0	0	0	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	
16-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
17-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
18-Oct-06	0:00	0	0	0	0	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	
19-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
20-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
21-Oct-06	0:00	0	0	0	0	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	0.6	
22-Oct-06	0:00	0	0	0	0	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	
23-Oct-06	0:00	0	0	0	0	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	
24-Oct-06	0:00	0	0	0	0	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	
25-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
26-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	
27-Oct-06	0:00	0	0	0	0	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	
28-Oct-06	0:00	0	0	0	0	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	
29-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N	0.5	
30-Oct-06	0:00	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	N	N	N	N	N	N	N	N	N	N	-	
31-Oct-06	0:00	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	A	0	0	0	0	0	0	0	0	0	N	0.4	
Hourly Avg		0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1				
Hourly Max		0.4	0.4	0.4	0.3	0.4	0.4	0.5	0.6	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.5	0.7	0.6	0.6	0.3					

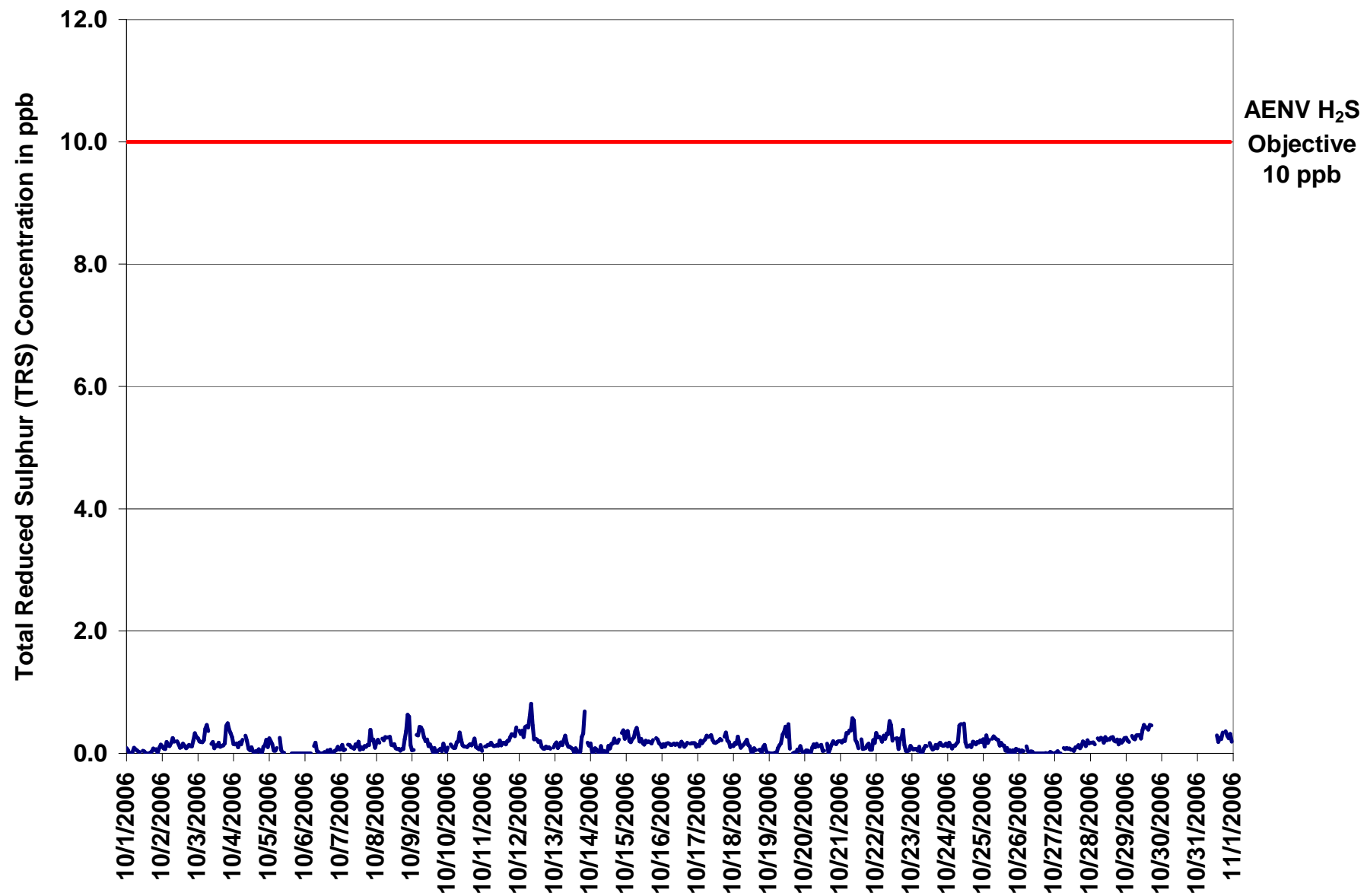


Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

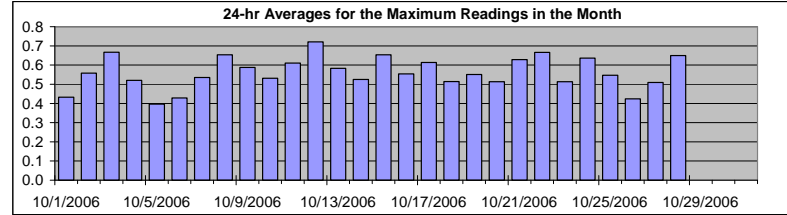
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	1.2	ppb	24-Oct	11:00 12:00
Maximum 24-hr Value:	0.7	ppb	12-Oct	



AIC Time:	33 hrs	Operational Time:	666 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	94.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.1	0.9	0.7	0.5	0.5	0.3	0.3	0.6 ppb	0.5 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	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-Oct-06	0	0	0	0	0	0	0	1	0	0	A	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0.4	0.6	
2-Oct-06	0	0	1	1	1	0	1	1	1	A	1	1	0	1	1	1	1	0	1	1	1	1	1	1	1	0.6	0.7	
3-Oct-06	1	1	1	1	1	1	1	1	1	A	1	1	0	1	0	1	0	1	1	1	1	1	1	1	1	0.7	1.1	
4-Oct-06	1	1	1	1	1	0	1	A	1	1	0	0	0	1	0	0	1	0	0	0	1	0	1	1	1	0.5	0.7	
5-Oct-06	1	1	1	0	0	1	A	1	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0.4	0.9	
6-Oct-06	0	1	0	0	0	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.4	0.6	
7-Oct-06	0	1	1	0	A	0	1	1	0	0	1	0	1	0	0	1	0	1	1	1	1	1	1	1	1	0.5	0.9	
8-Oct-06	1	1	1	A	1	1	1	1	1	1	1	1	1	0	1	0	0	0	1	1	1	1	1	1	1	0.7	1.1	
9-Oct-06	0	0	A	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0.6	1.1	
10-Oct-06	1	A	1	0	0	0	1	1	1	1	1	0	0	1	1	1	0	1	1	0	0	0	1	0	0	0.5	0.8	
11-Oct-06	A	1	1	1	1	1	1	0	0	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	A	0.6	0.9	
12-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	A	0	0	0.7	1.1	
13-Oct-06	1	1	1	0	1	1	1	1	1	1	1	0	1	0	1	0	0	1	1	1	1	1	A	1	0	0.6	1.1	
14-Oct-06	1	0	0	1	0	0	0	0	1	0	0	0	1	0	1	0	1	1	1	1	1	A	1	1	1	0.5	0.8	
15-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0	0.7	0.9	
16-Oct-06	1	1	1	1	1	1	1	1	0	1	1	1	0	0	1	1	1	0	1	A	1	1	1	1	1	0.6	0.7	
17-Oct-06	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0	1	1	1	A	1	1	1	1	1	0	0.6	0.7	
18-Oct-06	0	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	1	A	0	0	0	1	1	0	0	0.5	0.7	
19-Oct-06	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	A	0	0	0	0	1	1	0	0	0	0.6	1.2	
20-Oct-06	0	0	1	0	0	0	0	0	1	0	1	1	0	0	A	1	0	0	0	0	1	0	1	1	1	0.5	0.8	
21-Oct-06	1	1	1	0	1	1	1	1	1	1	1	1	1	0	A	1	0	1	0	0	1	1	0	1	1	0.6	1.1	
22-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0	1	1	1	1	0	0	1	1	0.7	1.1	
23-Oct-06	1	1	0	1	1	1	0	0	1	1	1	A	0	0	0	0	0	0	1	1	1	1	1	1	1	0.5	0.8	
24-Oct-06	1	1	1	0	1	1	1	1	1	1	1	A	1	1	1	0	1	1	1	1	0	1	0	1	1	0.6	1.2	
25-Oct-06	1	1	1	1	1	A	1	1	1	1	1	0	0	1	1	0	0	0	0	0	1	0	0	0	1	0.5	1.0	
26-Oct-06	0	1	1	0	A	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6	
27-Oct-06	0	0	1	0	0	A	0	1	1	1	0	1	0	1	0	1	1	0	1	1	1	1	1	1	1	0.5	0.6	
28-Oct-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0.6	0.8	
29-Oct-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	D	D	D	D	D	D	N	1.0	
30-Oct-06	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	N	N	N	N	N	N	N	-	-
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	1	1	1	1	1	A	1	1	1	1	1	N	0.9
Hourly Avg	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5			
Hourly Max	0.9	0.9	1.0	0.7	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.0	1.2	1.0	0.8	0.9	0.9	0.8	0.8	1.1	1.1	1.1	0.9			

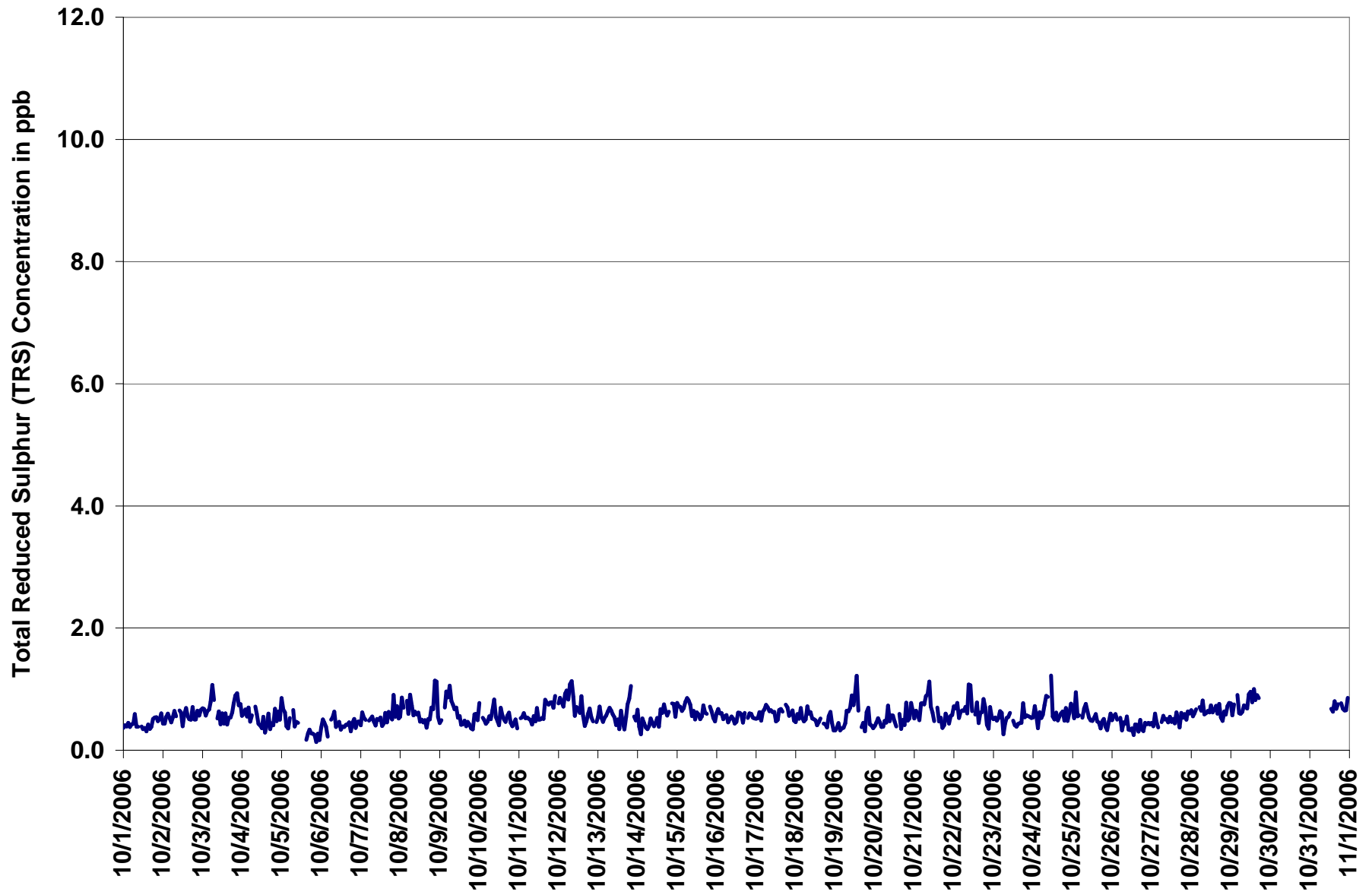
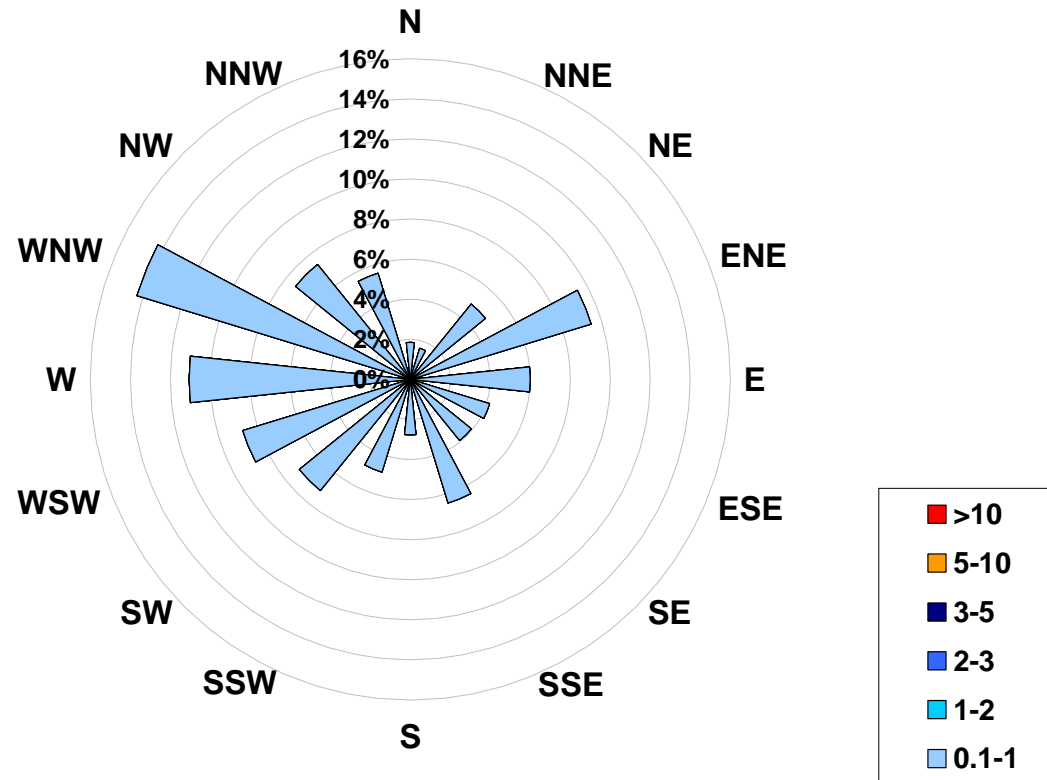


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	< 1		666
1	to 2		0
2	to 3		0
3	to 5		0
5	to 10		0
	> 10		0
Total Non-Zero Values			666

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

Station: Henry Pirker
 Station Owner: PASZA

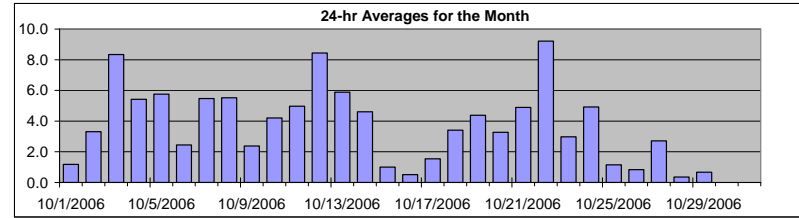
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2006 to November 1, 2006

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:	28.7 µg/m ³ 3-Oct 22:00 23:00
Maximum 24-hr Value:	9.2 µg/m ³ 22-Oct



AIC Time:	0 hrs	Operational Time:	697 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	94.1%
Percentile	99	95	75
	20.8	13.5	5.2
	2.4	0.9	0.0
	0.0	0.0	0.0
Average / Median	3.9		2 µg/m ³
Geomean	2.8 µg/m ³		

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-Oct-06	0	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	2	2	3	2	2	2	2	1.2	3.2			
2-Oct-06	2	2	2	2	2	2	4	6	4	2	1	1	0	0	0	0	1	4	9	7	9	12	9	3.3	12.0			
3-Oct-06	5	4	3	4	3	4	7	11	7	6	5	3	4	2	1	2	1	2	8	18	21	25	29	24	8.3	28.7		
4-Oct-06	12	5	4	2	4	3	5	6	7	6	4	1	3	0	0	0	1	4	6	5	7	14	17	11	5.4	16.7		
5-Oct-06	5	6	7	7	7	6	10	13	15	8	5	4	6	5	4	6	6	8	3	1	1	1	0	5.8	15.0			
6-Oct-06	0	1	1	1	1	2	4	5	7	5	3	2	1	1	0	1	4	4	6	2	3	2	2	2.5	7.1			
7-Oct-06	2	2	1	1	1	1	3	4	3	3	1	1	0	0	0	0	0	3	13	16	21	22	23	10	5.5	22.7		
8-Oct-06	8	7	7	5	3	3	5	9	6	5	5	3	2	2	1	0	0	1	3	11	14	17	15	1	5.5	17.4		
9-Oct-06	1	1	2	2	3	2	3	6	3	3	2	2	0	1	1	3	3	4	4	2	3	2	2	2.4	5.8			
10-Oct-06	1	1	2	2	2	7	18	7	14	9	8	4	3	4	4	3	3	4	3	2	1	1	0	0	4.2	17.5		
11-Oct-06	0	0	0	0	0	0	0	1	1	1	1	6	3	4	3	4	5	6	11	16	16	14	15	11	5.0	16.5		
12-Oct-06	11	8	7	6	7	8	10	14	21	12	9	8	10	7	7	5	5	6	8	6	7	8	6	5	8.4	20.8		
13-Oct-06	5	4	4	4	4	5	8	10	8	8	7	6	5	4	4	3	4	5	5	6	7	8	7	9	5.9	9.6		
14-Oct-06	8	4	3	2	2	3	4	4	5	4	5	6	6	5	5	6	6	7	6	5	4	4	3	4.6	7.6			
15-Oct-06	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	1	1	0	1	1	2	0	1.0	2.4			
16-Oct-06	0	0	0	0	0	0	0	1	0	1	0	1	1	0	1	1	1	2	1	0	2	0	0	0	0.5	2.3		
17-Oct-06	0	0	0	0	0	0	1	0	3	2	1	1	1	2	2	4	2	3	3	8	1	0	1	2	1.5	7.6		
18-Oct-06	2	3	4	4	6	2	2	4	7	8	3	3	0	0	1	3	3	5	4	5	4	4	3	3	3.4	7.8		
19-Oct-06	3	4	3	3	3	5	6	4	7	11	13	14	7	9	2	0	2	2	2	1	2	0	1	1	4.4	14.2		
20-Oct-06	1	2	2	0	2	1	1	4	3	3	1	1	0	0	0	0	1	4	16	21	7	3	3	4	3.3	20.7		
21-Oct-06	2	2	2	3	3	4	5	9	12	14	6	8	6	5	4	2	2	5	6	3	2	3	6	3	4.9	13.7		
22-Oct-06	1	3	10	8	7	9	8	9	12	10	14	16	15	13	13	12	18	11	2	4	3	2	2	2	9.2	18.4		
23-Oct-06	2	2	2	1	1	2	5	4	7	6	4	2	2	1	1	3	4	2	4	5	5	3	2	2	3.0	6.9		
24-Oct-06	1	1	1	1	4	5	5	7	16	22	16	12	9	1	1	2	1	1	4	2	1	1	2	2	4.9	21.7		
25-Oct-06	1	1	1	1	2	1	0	2	2	2	1	1	2	1	0	0	2	2	2	2	0	1	1	1	1.2	2.5		
26-Oct-06	2	0	0	0	0	0	0	1	4	2	0	0	C	C	C	0	0	2	2	1	1	1	1	1	0.8	3.6		
27-Oct-06	2	2	3	3	3	3	5	5	5	6	6	2	1	2	4	5	3	1	1	1	2	1	0	0	2.7	5.8		
28-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	1	2	0	0.4	1.8		
29-Oct-06	1	1	1	0	0	1	1	1	1	1	0	0	0	0	0	1	0	2	D	D	D	D	D	D	0.7	2.5		
30-Oct-06	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	N	N	N	N	N	N	N	N	-	-
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	5	4	4	6	10	8	5	5	6	5	N	10.4	-
Hourly Avg	2.7	2.4	2.5	2.2	2.6	2.8	4.2	5.1	6.4	5.6	4.2	3.7	3.2	2.4	2.3	2.2	2.9	3.6	5.3	5.7	5.3	5.4	5.7	4.0				
Hourly Max	12.5	8.2	9.6	7.9	7.4	8.7	17.5	14.5	20.8	21.7	16.1	15.9	15.3	13.3	13.4	12.2	18.4	18.0	15.6	20.7	21.4	24.8	28.7	24.4				

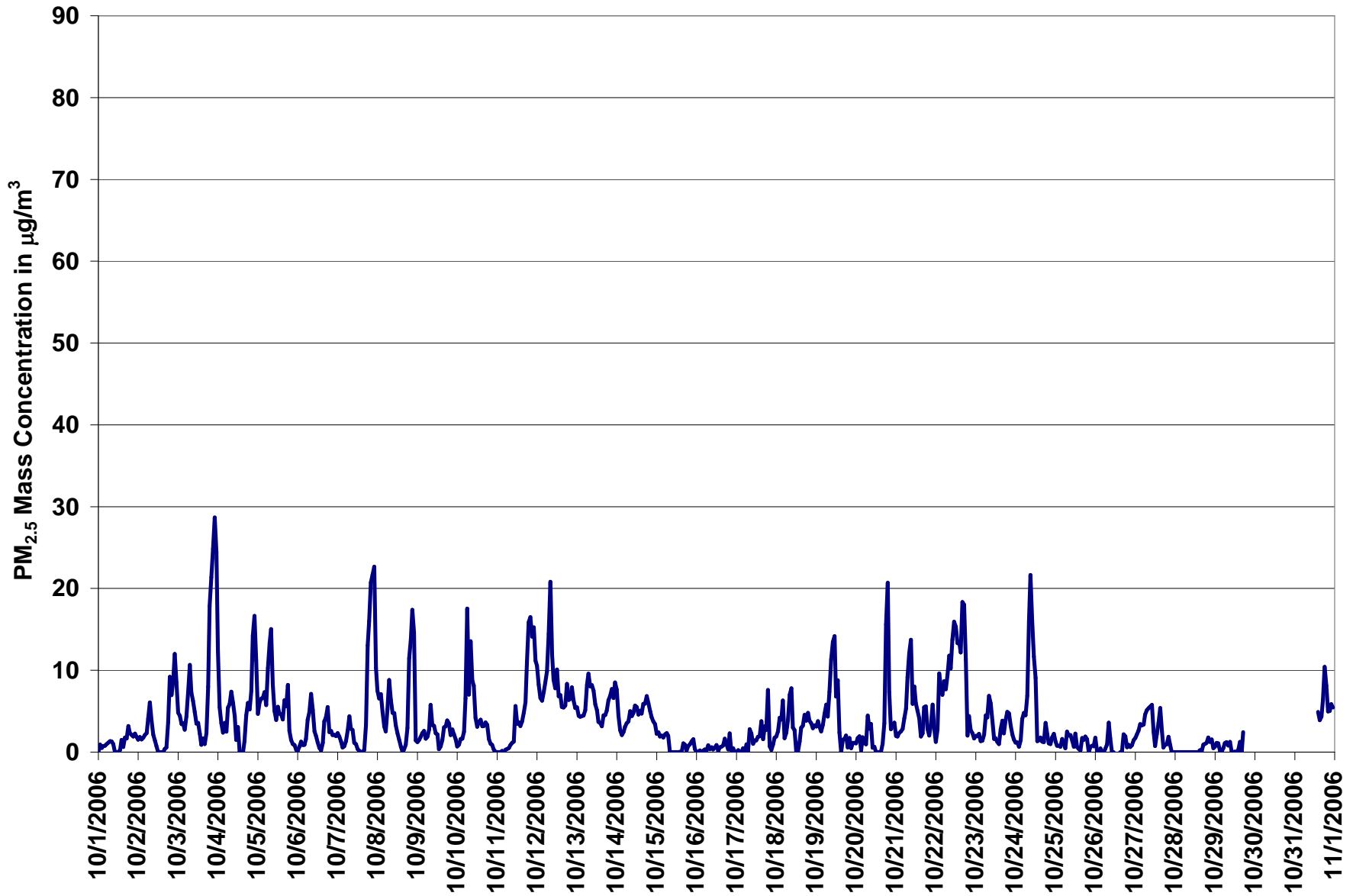


Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

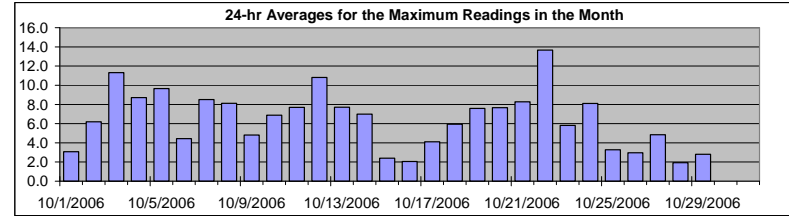
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	37.7	µg/m ³	20-Oct	19:00 20:00
Maximum 24-hr Value:	13.7	µg/m ³	22-Oct	



AIC Time:	0 hrs	Operational Time:	697 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	94.1%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	28.5	18.3	7.9	4.9	2.9	1.3	0.7	6.5	5 µg/m ³

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00				
1-Oct-06	1	3	2	2	2	2	2	3	3	2	2	1	1	3	6	4	4	5	6	6	3	3	3	3	3.1	6.4		
2-Oct-06	3	3	3	4	3	4	8	8	6	4	3	2	2	1	1	2	3	4	12	17	13	15	15	11	6.2	16.9		
3-Oct-06	7	6	5	5	4	7	9	13	11	8	7	5	5	4	3	5	4	5	12	21	25	34	34	31	11.3	34.1		
4-Oct-06	18	9	5	5	6	4	10	9	9	9	6	4	5	2	2	2	4	7	8	7	11	26	25	17	8.7	26.0		
5-Oct-06	12	11	9	15	15	13	16	24	23	11	7	6	9	7	6	6	9	8	12	4	3	3	2	1	9.7	23.6		
6-Oct-06	1	1	4	2	2	3	6	7	8	8	4	4	4	4	3	3	6	6	11	4	4	3	4	3	4.4	10.5		
7-Oct-06	5	4	3	2	2	2	4	8	5	5	5	4	4	3	1	2	2	6	20	22	23	27	32	15	8.5	31.6		
8-Oct-06	11	8	9	7	5	6	8	14	10	6	7	5	4	3	3	2	2	3	7	15	16	20	19	5	8.1	20.1		
9-Oct-06	4	3	3	4	5	4	3	7	8	6	6	5	5	2	4	6	5	5	8	6	4	5	4	4	4.8	7.7		
10-Oct-06	3	4	3	5	5	12	26	14	17	12	12	7	5	5	5	5	5	5	5	3	3	2	2	1	6.9	26.3		
11-Oct-06	1	2	4	5	1	2	2	2	2	3	5	8	7	6	5	5	7	8	15	18	19	20	24	16	7.7	23.5		
12-Oct-06	12	10	8	9	9	11	11	21	26	17	13	9	13	9	10	7	6	8	10	9	8	10	8	7	10.8	25.5		
13-Oct-06	7	6	6	7	6	7	11	12	11	10	9	8	6	6	5	5	7	6	6	8	9	10	8	11	7.7	11.7		
14-Oct-06	10	7	4	4	5	5	7	6	8	7	7	8	8	6	7	9	7	8	7	12	8	7	6	5	5	7.0	11.6	
15-Oct-06	3	3	4	3	3	3	5	3	1	1	0	1	2	1	2	1	4	2	1	2	2	2	4	2	2.4	4.6		
16-Oct-06	1	1	2	1	2	1	1	2	2	2	2	2	2	3	2	2	3	4	3	2	5	1	3	2	2.1	4.6		
17-Oct-06	0	3	3	1	2	2	3	2	6	7	3	4	3	4	5	7	5	6	7	15	3	2	3	3	4.1	14.9		
18-Oct-06	4	5	8	6	10	6	5	7	9	10	5	5	4	3	3	6	5	9	6	6	6	5	5	4	5.9	10.5		
19-Oct-06	4	7	5	3	5	9	12	6	12	14	17	18	13	12	7	6	6	5	6	2	3	3	3	3	7.6	18.3		
20-Oct-06	2	3	4	2	3	3	4	10	4	5	3	3	2	2	2	1	2	11	37	38	27	4	5	6	7.7	37.7		
21-Oct-06	4	4	4	5	5	8	8	15	17	19	11	14	12	7	7	4	5	8	8	4	5	8	11	5	8.3	18.8		
22-Oct-06	3	10	13	11	9	12	14	11	14	15	17	19	19	21	17	16	28	33	13	14	6	5	6	3	13.7	32.6		
23-Oct-06	4	4	4	2	3	3	7	6	10	8	7	3	4	5	5	7	6	5	7	10	17	5	4	3	5.8	16.7		
24-Oct-06	3	3	2	4	9	7	8	11	24	27	21	18	14	6	4	5	4	4	6	4	3	2	3	4	8.1	27.1		
25-Oct-06	3	2	2	2	3	2	2	4	3	5	4	4	5	7	2	3	5	5	3	4	2	2	2	2	3.3	6.5		
26-Oct-06	5	5	3	2	2	1	2	4	8	4	2	3	C	C	1	2	3	4	3	2	2	2	3	3	3.0	7.6		
27-Oct-06	3	4	4	6	5	6	7	7	8	7	9	5	4	5	6	8	4	2	3	3	4	4	1	2	4.8	8.7		
28-Oct-06	1	2	1	1	3	1	2	1	1	2	1	1	2	1	2	2	2	3	3	3	3	3	3	2	1.9	3.5		
29-Oct-06	2	2	2	2	2	2	4	3	3	3	1	1	2	0	2	9	1	10	D	D	D	D	D	D	2.8	9.8		
30-Oct-06	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	N	N	N	N	N	N	N	N	N	-	-
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	8	6	6	9	15	11	8	8	8	9	N	14.6	N
Hourly Avg	4.7	4.6	4.4	4.4	4.7	5.1	7.1	8.3	9.3	8.3	6.7	6.1	5.9	5.0	4.7	4.8	5.3	6.7	9.2	9.3	8.4	8.3	8.6	6.3				
Hourly Max	18.5	10.8	13.3	14.8	15.2	13.4	26.3	23.6	25.5	27.1	20.6	19.0	18.6	20.7	16.8	15.6	28.4	32.6	37.3	37.7	26.8	34.0	34.1	30.5				

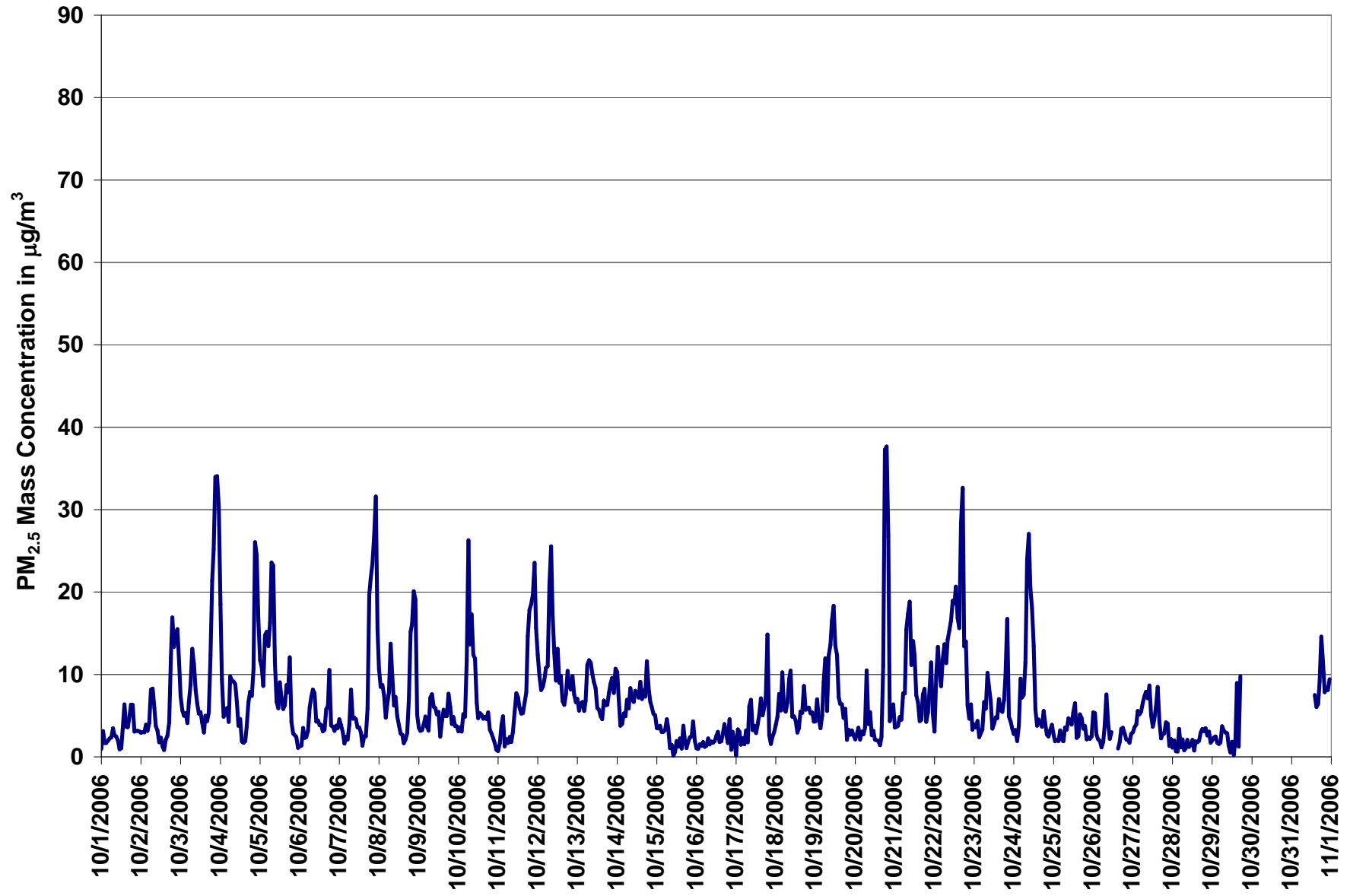
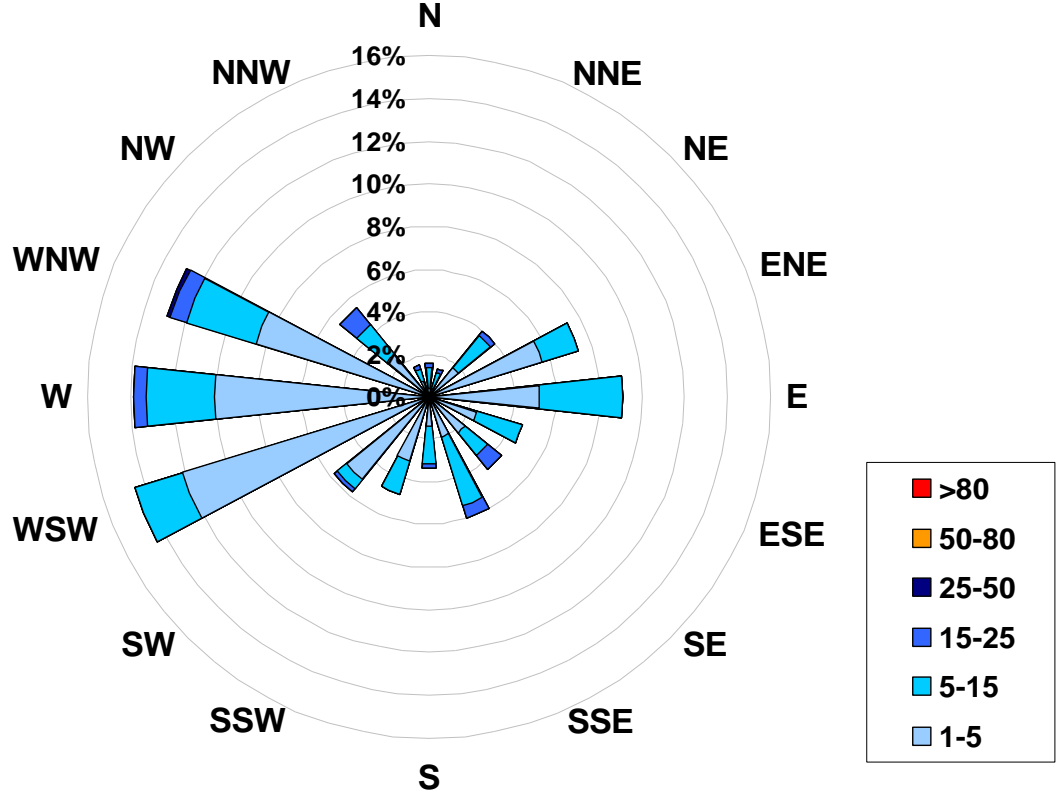


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 October 2006



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	511
5	to	15	160
15	to	25	25
25	to	50	1
50	to	80	0
	>	80	0
Total Non-Zero Values			697

PASZA - Henry Pirker - Relative Humidity Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

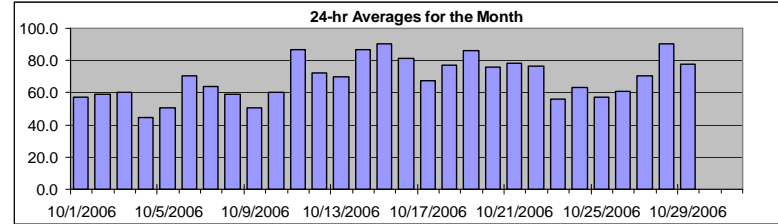
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	95.5 %	15-Oct	5:00 6:00
Maximum 24-hr Value:	90.5 %	15-Oct	



AIC Time:	0 hrs	Operational Time:	725 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	97.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	94.3	92.8	83.6	71.8	56.6	35.9	24.0	69.0 %	71.8 %

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																							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-Oct-06	59	62	65	68	69	69	71	67	59	56	48	43	38	35	41	43	42	47	62	64	62	66	69	72	57.4	72.5		
2-Oct-06	76	78	80	85	80	81	83	80	69	64	56	50	43	38	33	30	29	31	37	44	50	66	68	75	59.3	84.5		
3-Oct-06	78	78	78	83	85	89	89	83	66	65	56	49	40	34	28	25	26	27	36	47	61	81	73	76	60.5	88.5		
4-Oct-06	80	75	72	64	72	67	66	72	66	54	47	35	29	23	16	10	10	14	19	27	31	42	43	42	44.8	79.6		
5-Oct-06	40	42	46	52	50	49	40	36	42	34	31	34	42	55	61	59	55	54	57	61	62	65	70	71	50.3	71.1		
6-Oct-06	75	81	84	83	82	84	86	88	87	79	70	59	51	45	41	42	44	49	67	78	77	77	83	82	70.5	88.4		
7-Oct-06	82	82	83	87	89	88	89	88	77	69	58	46	41	36	34	33	32	39	46	59	65	73	71	72	64.1	89.1		
8-Oct-06	78	77	82	83	77	83	83	85	67	60	54	49	44	39	35	32	31	33	40	50	56	60	61	58	59.0	85.1		
9-Oct-06	64	68	69	73	75	78	79	79	68	57	45	38	30	24	24	25	28	34	39	39	41	43	45	49	50.5	79.2		
10-Oct-06	52	52	52	53	55	58	60	59	56	49	47	47	45	44	48	53	57	65	72	78	81	83	86	87	60.0	87.5		
11-Oct-06	89	92	92	93	93	93	93	94	94	94	94	93	91	82	72	68	67	66	76	85	89	90	91	90	86.6	94.1		
12-Oct-06	90	91	91	92	92	91	90	89	83	76	62	54	53	53	53	52	56	61	65	67	68	70	71	71	72.6	92.3		
13-Oct-06	72	73	74	72	74	76	83	84	76	73	69	63	59	54	52	50	54	64	71	74	77	78	79	81	70.1	83.8		
14-Oct-06	81	83	80	81	84	85	86	87	87	86	85	84	83	81	83	86	87	88	91	92	94	94	94	94	86.5	94.2		
15-Oct-06	94	95	95	95	95	95	95	95	92	91	89	87	86	84	83	81	82	86	89	91	92	92	93	93	90.5	95.5		
16-Oct-06	93	90	89	88	89	89	87	86	83	84	81	78	79	77	76	78	73	77	77	76	77	77	77	76	81.5	92.5		
17-Oct-06	74	75	75	79	82	86	88	88	84	77	69	64	60	59	57	57	53	51	57	65	59	50	51	60	67.4	88.4		
18-Oct-06	68	72	74	71	76	88	92	92	88	79	76	64	59	59	59	64	66	71	76	81	83	84	85	85	77.0	92.3		
19-Oct-06	86	87	88	88	89	89	89	90	90	90	92	92	90	85	75	75	74	77	87	89	88	85	86	87	86.1	92.0		
20-Oct-06	86	86	86	83	86	88	90	91	89	85	77	72	63	56	54	49	52	59	72	78	73	80	86	86	76.2	91.1		
21-Oct-06	83	88	89	90	92	92	92	92	92	81	73	65	63	59	57	53	54	66	75	78	80	83	88	91	78.2	92.4		
22-Oct-06	92	93	93	93	93	93	93	93	92	84	81	78	72	63	57	60	67	72	80	58	47	54	61	64	76.3	93.2		
23-Oct-06	71	69	68	65	63	68	71	61	59	50	42	39	41	45	44	46	47	49	52	55	58	59	60	58	55.9	70.8		
24-Oct-06	58	57	56	58	63	77	83	83	82	79	66	57	54	46	49	52	51	54	60	63	67	69	68	68	63.4	83.3		
25-Oct-06	70	72	69	71	70	65	65	70	65	58	50	41	39	40	42	42	45	47	50	54	57	58	61	66	56.9	71.5		
26-Oct-06	70	79	76	78	78	77	76	74	72	64	55	47	41	37	37	38	42	49	55	60	64	66	66	65	61.0	78.8		
27-Oct-06	67	68	71	67	62	61	63	65	64	65	62	57	52	51	50	51	68	90	92	93	93	93	93	93	70.4	93.3		
28-Oct-06	93	93	93	93	93	93	93	93	92	92	90	90	90	89	89	89	89	89	89	89	88	87	86	83	90.2	93.2		
29-Oct-06	80	81	82	84	83	82	82	84	83	79	78	76	74	70	68	71	71	73	74	75	76	77	79	79	77.6	84.1		
30-Oct-06	78	76	75	73	74	75	77	78	77	65	60	59	57	57	53	56	62	N	N	N	N	N	N	N	N	78.3		
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	83.9	
Hourly Avg	75.9	77.1	77.6	78.1	78.8	80.2	81.1	80.9	76.8	71.6	65.6	60.8	57.2	54.2	52.6	52.6	54.2	58.4	64.7	68.4	69.9	72.9	74.2	75.2				
Hourly Max	94.4	94.6	95.1	95.4	95.4	95.5	95.4	95.2	94.0	94.1	93.9	93.3	91.2	89.3	89.0	88.7	88.8	90.0	92.3	92.8	93.7	94.0	94.1	94.2				

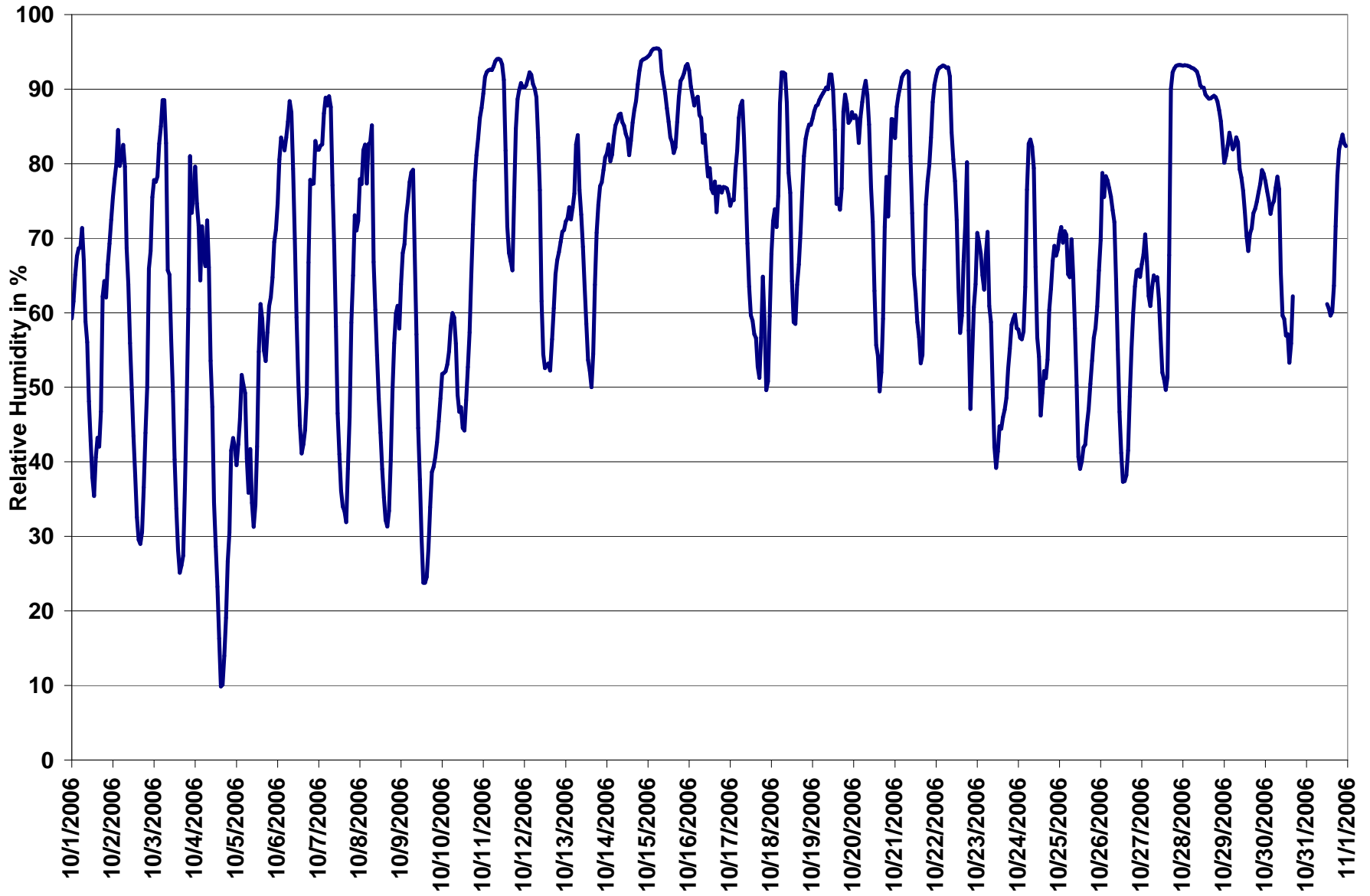


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

PASZA - Henry Pirker - Temperature Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

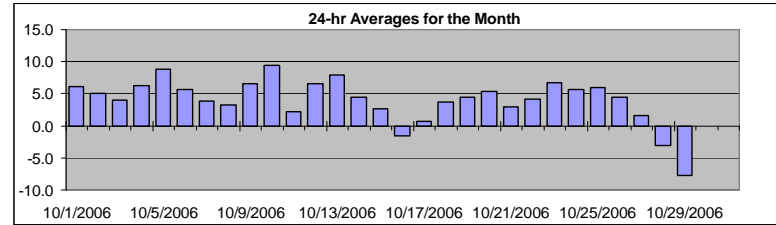
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	18.4 °C	4-Oct	15:00 16:00
Maximum 24-hr Value:	9.4 °C	10-Oct	



AIC Time:	0 hrs	Operational Time:	725 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	97.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	15.6	12.6	7.6	3.7	-0.4	-6.6	-10.8	3.5 °C	3.7 °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-Oct-06	7	6	5	4	3	3	2	3	6	7	9	9	10	11	10	10	10	9	6	5	5	3	2	2		6.2	11.3
2-Oct-06	1	0	-1	-2	-1	-1	-2	0	3	5	7	9	11	11	12	13	13	12	10	8	6	3	2	-1		5.0	13.2
3-Oct-06	-2	-2	-2	-3	-3	-4	-3	-2	2	4	7	9	11	13	14	14	13	12	10	6	4	1	0	-2		4.0	14.0
4-Oct-06	-2	-1	-1	0	-2	-1	-2	-3	0	3	6	10	13	15	17	18	17	16	13	10	8	6	6	6		6.3	18.4
5-Oct-06	6	6	5	4	5	5	6	8	8	12	13	14	13	11	11	11	11	11	10	10	9	8	7	6		8.8	13.9
6-Oct-06	5	4	3	3	3	3	2	1	2	5	7	10	11	12	12	11	10	9	7	4	4	4	2	2		5.7	12.1
7-Oct-06	2	2	2	0	-1	-1	-3	-2	1	4	6	8	10	11	11	12	11	9	7	3	2	0	-2	-2		3.8	11.6
8-Oct-06	-2	-2	-3	-3	-3	-5	-5	-5	1	4	7	9	10	11	12	12	12	11	8	5	3	2	1	2		3.3	12.0
9-Oct-06	0	-1	-2	-3	-3	-4	-4	-5	-1	2	7	10	14	16	17	17	15	14	13	12	12	11	11	10		6.6	16.7
10-Oct-06	10	10	10	10	9	9	8	9	10	13	14	14	15	16	15	13	11	9	7	5	4	3	2	2		9.4	15.7
11-Oct-06	1	1	0	0	-1	0	0	0	0	0	0	2	3	5	7	8	9	9	7	4	2	1	0	-1		2.3	9.1
12-Oct-06	-1	-1	-1	-1	0	1	1	2	4	6	11	13	13	13	13	13	12	11	9	9	8	8	7	7		6.6	13.0
13-Oct-06	7	7	7	7	6	6	4	4	6	7	8	10	11	13	13	13	12	10	8	7	7	6	5	4		7.9	13.5
14-Oct-06	4	3	4	3	3	3	3	3	3	4	4	4	5	6	6	6	6	5	5	5	5	5	5	5		4.4	5.8
15-Oct-06	5	5	5	5	5	5	5	5	3	2	2	2	3	3	3	3	2	2	1	0	1	0	0	0		2.7	5.0
16-Oct-06	0	0	-1	-1	-2	-2	-2	-2	-2	-2	-2	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	-2		-1.6	-0.2
17-Oct-06	-2	-2	-2	-3	-4	-5	-5	-6	-4	-2	0	1	4	5	6	7	7	6	3	2	2	4	4	2		0.7	7.0
18-Oct-06	1	0	-1	0	1	1	0	1	1	3	5	7	9	10	10	8	8	7	5	4	3	2	2	2		3.7	10.0
19-Oct-06	2	2	2	2	2	2	2	2	2	3	4	5	6	8	11	9	9	8	6	5	5	5	4	4		4.5	10.6
20-Oct-06	4	4	4	4	4	4	3	2	3	5	7	7	8	10	10	11	10	8	5	4	5	3	1	1		5.3	11.2
21-Oct-06	1	-1	-1	-2	-2	-3	-3	-3	-1	2	4	6	7	9	9	10	10	8	5	5	4	3	1	0		2.9	10.1
22-Oct-06	0	-1	-1	-1	-2	-2	-2	-2	0	2	3	5	6	8	10	10	9	8	6	8	10	9	8	7		4.2	10.5
23-Oct-06	5	5	5	5	5	3	2	3	4	7	10	11	11	11	11	10	10	9	8	7	6	5	5	6		6.8	11.1
24-Oct-06	5	5	5	5	4	2	1	1	2	2	5	8	9	11	10	9	10	8	6	6	5	5	5	4		5.6	11.0
25-Oct-06	4	3	4	3	3	4	4	2	3	4	6	8	8	8	8	9	9	9	8	8	8	8	7	6		5.9	9.1
26-Oct-06	6	5	5	4	4	3	2	2	3	4	6	7	7	8	8	8	8	7	5	4	3	2	1	1		4.4	7.9
27-Oct-06	0	0	-1	1	2	2	2	1	2	2	3	4	5	5	5	4	3	0	0	0	0	0	0	-1		1.6	5.0
28-Oct-06	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	-3	-3	-4	-4	-5	-5	-5	-5	-6	-6	-6		-3.1	-0.7
29-Oct-06	-6	-7	-8	-9	-9	-9	-10	-10	-9	-9	-8	-7	-6	-5	-5	-4	-5	-7	-7	-7	-7	-8	-8	-9		-7.7	-4.3
30-Oct-06	-9	-9	-9	-10	-11	-12	-14	-14	-13	-10	-7	-6	-5	-5	-3	-3	-4	-4	N	N	N	N	N	N		N	-2.7
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	-4	-3	-3	-4	-5	-8	-10	-11	-11	-10	-11		N	-3.3
Hourly Avg	1.7	1.3	1.0	0.7	0.4	0.1	-0.3	-0.2	1.2	2.9	4.7	6.2	6.9	7.8	8.2	8.1	7.6	6.8	5.0	4.0	3.4	2.7	2.0	1.6			
Hourly Max	9.9	9.9	9.8	9.6	9.2	8.5	8.2	8.7	10.0	12.6	13.8	13.9	15.1	16.0	17.2	18.4	17.2	16.2	13.1	12.1	11.7	11.4	10.8	10.3			

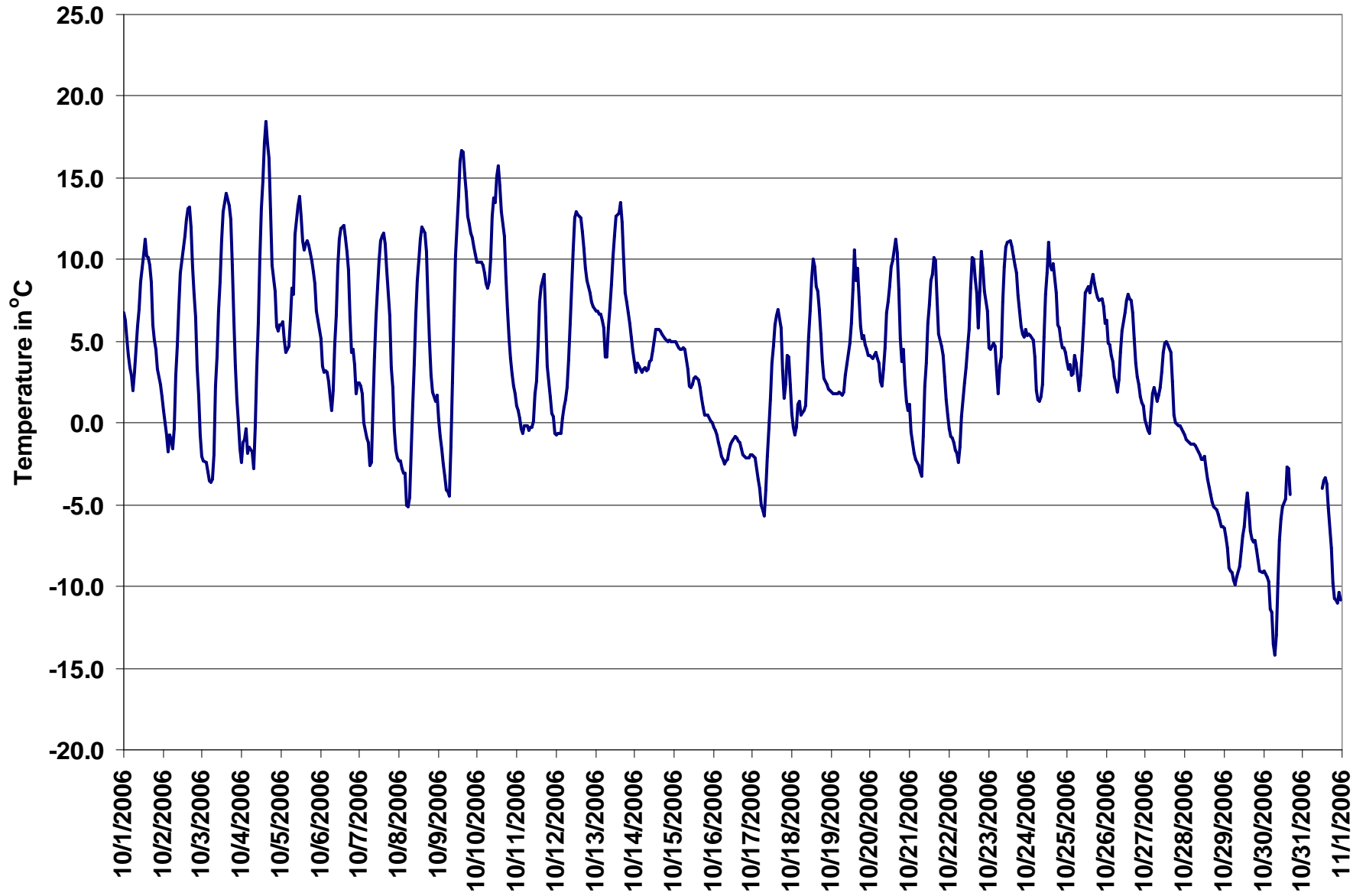


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

PASZA - Henry Pirker - Solar Radiation Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

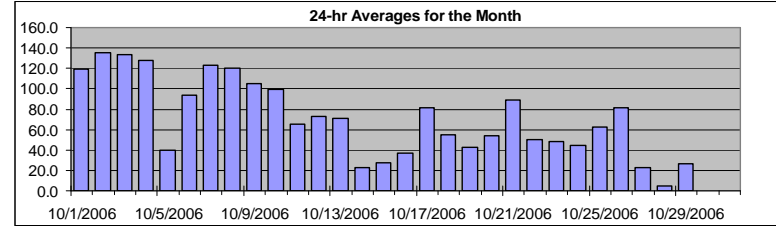
HOURLY AVERAGE TABLE

Solar Radiation (SR)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	470.4	W/m ²	2-Oct	12:00 13:00
Maximum 24-hr Value:	135.6	W/m ²	2-Oct	



AIC Time:	0 hrs	Operational Time:	725 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	97.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	444.1	355.4	98.2	0.3	0.0	0.0	0.0	72.0 W/m ²	0.3 W/m 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	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-Oct-06	0	0	0	0	0	0	1	49	172	290	356	364	379	424	236	289	218	77	8	0	0	0	0	0	119.4	424.0
2-Oct-06	0	0	0	0	0	0	1	46	169	285	379	444	470	455	404	313	201	81	6	0	0	0	0	135.6	470.4	
3-Oct-06	0	0	0	0	0	0	0	48	170	281	376	442	467	450	397	305	194	74	5	0	0	0	0	133.7	467.4	
4-Oct-06	0	0	0	0	0	0	0	43	170	286	380	443	466	447	372	268	133	63	4	0	0	0	0	128.1	465.7	
5-Oct-06	0	0	0	0	0	0	2	20	63	97	142	177	102	103	98	79	40	16	4	0	0	0	0	39.3	177.2	
6-Oct-06	0	0	0	0	0	0	0	11	97	113	173	284	455	412	398	175	94	43	2	0	0	0	0	94.0	454.5	
7-Oct-06	0	0	0	0	0	0	0	32	146	257	345	418	439	425	374	290	161	57	2	0	0	0	0	122.8	439.4	
8-Oct-06	0	0	0	0	0	0	0	25	139	250	344	407	433	417	366	279	171	53	2	0	0	0	0	120.3	432.7	
9-Oct-06	0	0	0	0	0	0	0	22	101	245	310	399	366	406	360	224	62	17	1	0	0	0	0	104.7	406.2	
10-Oct-06	0	0	0	0	0	0	0	13	81	220	315	378	407	384	249	213	90	28	3	0	0	0	0	99.1	406.7	
11-Oct-06	0	0	0	0	0	0	0	4	31	66	140	197	210	303	316	169	89	43	2	0	0	0	0	65.5	316.5	
12-Oct-06	0	0	0	0	0	0	0	4	36	136	349	340	330	239	156	109	45	12	0	0	0	0	0	73.3	349.0	
13-Oct-06	0	0	0	0	0	0	0	11	42	93	176	261	260	297	217	215	96	29	0	0	0	0	0	70.7	296.7	
14-Oct-06	0	0	0	0	0	0	0	3	28	56	53	65	91	110	65	52	20	3	0	0	0	0	0	22.8	109.7	
15-Oct-06	0	0	0	0	0	0	0	3	24	67	86	94	106	100	83	70	29	7	0	0	0	0	0	27.9	105.9	
16-Oct-06	0	0	0	0	0	0	0	5	21	69	141	148	162	137	112	72	24	4	1	0	0	0	0	37.3	162.1	
17-Oct-06	0	0	0	0	0	0	0	8	104	213	279	304	350	248	209	116	81	31	0	0	0	0	0	81.0	349.9	
18-Oct-06	0	0	0	0	0	0	0	1	18	149	142	223	142	329	210	66	43	5	0	0	0	0	0	55.3	328.7	
19-Oct-06	0	0	0	0	0	0	0	2	28	26	34	96	146	244	238	88	103	6	0	0	0	0	0	42.3	244.0	
20-Oct-06	0	0	0	0	0	0	0	4	21	80	152	103	182	246	217	204	80	14	0	0	0	0	0	54.4	245.8	
21-Oct-06	0	0	0	0	0	0	0	4	81	188	275	333	354	352	229	230	91	8	0	0	0	0	0	89.4	353.9	
22-Oct-06	0	0	0	0	0	0	0	6	81	110	131	124	153	233	211	79	55	15	0	0	0	0	0	50.1	232.7	
23-Oct-06	0	0	0	0	0	0	0	3	73	176	241	265	167	111	60	29	17	9	0	0	0	0	0	48.0	264.8	
24-Oct-06	0	0	0	0	0	0	0	1	22	55	136	168	177	250	77	94	77	5	0	0	0	0	0	44.4	249.9	
25-Oct-06	0	0	0	0	0	0	0	4	73	147	251	322	228	182	144	93	39	15	0	0	0	0	0	62.4	321.8	
26-Oct-06	0	0	0	0	0	0	0	1	57	168	254	322	341	324	233	173	63	7	0	0	0	0	0	80.9	340.6	
27-Oct-06	0	0	0	0	0	0	0	0	15	37	85	119	112	83	54	23	8	1	0	0	0	0	0	22.4	119.3	
28-Oct-06	0	0	0	0	0	0	0	0	2	8	12	15	17	17	15	12	5	0	0	0	0	0	0	4.3	16.8	
29-Oct-06	0	0	0	0	0	0	0	0	7	41	52	52	83	112	148	93	49	4	0	0	0	0	0	26.7	147.6	
30-Oct-06	0	0	0	0	0	0	0	2	51	147	243	297	298	261	278	172	53	N	N	N	N	N	N	N	N	297.6
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	317	300	245	148	44	3	1	0	0	0	0	N	317.0	
Hourly Avg	0.1	0.1	0.1	0.0	0.1	0.1	0.1	12.5	70.8	145.2	211.7	253.4	264.8	271.0	218.5	153.0	79.8	24.3	1.5	0.1	0.1	0.1	0.1	0.1		
Hourly Max	0.3	0.3	0.3	0.3	0.3	0.3	1.7	49.4	172.5	289.8	379.9	444.4	470.4	455.4	404.0	312.6	218.5	81.0	8.2	0.3	0.3	0.3	0.3	0.3		

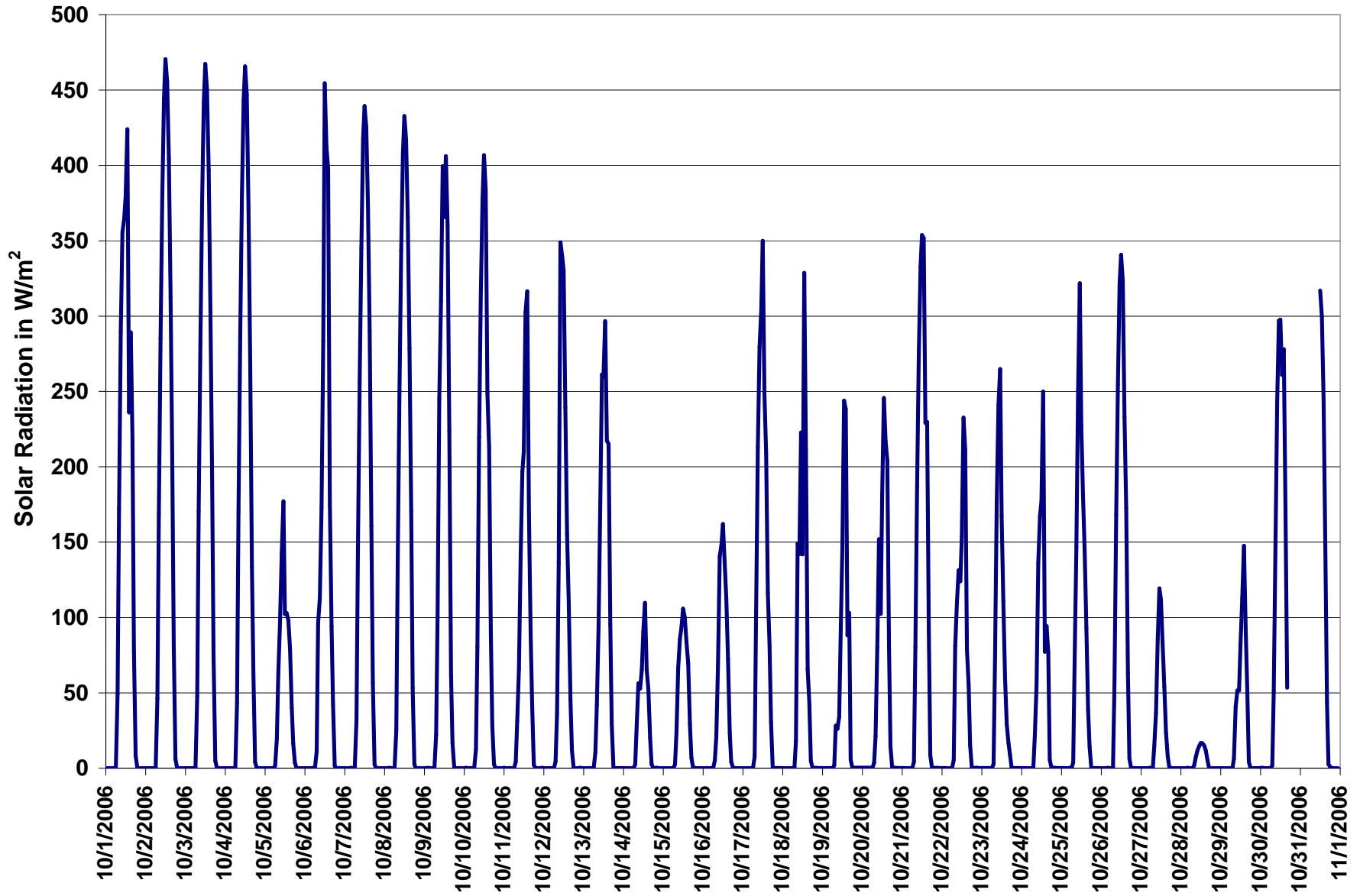


Figure 19. PASZA - Henry Pirker Solar Radiation 1-hr Average Monthly Trend

PASZA - Henry Pirker - Scalar Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

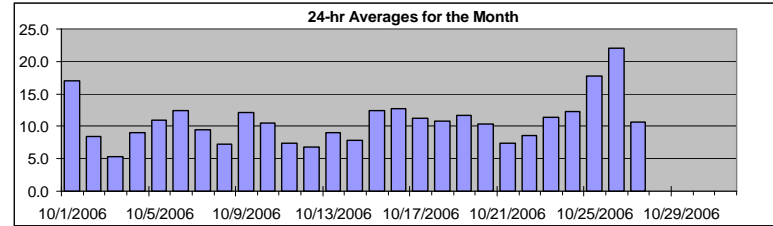
HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	36.9	km/hr	26-Oct	14:00 15:00
Maximum 24-hr Value:	22.1	km/hr	26-Oct	



Calm Time:	0 hrs	0% calms	Operational Time:	677 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	91.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	30.3	22.2	13.8	9.4	6.6	4.3	3.7	10.9 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
	Hour Start 1:00	0:00 2:00	1:00 3:00	2:00 4:00	3:00 5:00	4:00 6:00	5:00 7:00	6:00 8:00	7:00 9:00	8:00 10:00	9:00 11:00	10:00 12:00	11:00 13:00	12:00 14:00	13:00 15:00	14:00 16:00	15:00 17:00	16:00 18:00	17:00 19:00	18:00 20:00	19:00 21:00	20:00 22:00	21:00 23:00	22:00 0:00			23:00
1-Oct-06	24	22	19	17	15	15	4	7	8	18	22	22	24	22	23	21	30	24	11	12	15	13	11	10	17.1	30.0	
2-Oct-06	9	10	8	6	12	11	7	8	10	13	12	11	11	13	12	11	7	4	4	6	4	5	4	5	8.4	13.1	
3-Oct-06	6	5	7	7	6	4	4	5	5	7	7	7	6	6	7	6	6	4	4	4	4	4	4	4	5.3	7.4	
4-Oct-06	5	8	7	8	6	8	8	10	9	10	8	5	7	10	11	15	19	17	13	11	4	4	8	8	9.1	19.1	
5-Oct-06	10	6	6	6	5	4	4	8	7	16	21	24	26	19	12	7	4	5	7	12	15	12	11	12	10.9	25.9	
6-Oct-06	8	4	6	8	8	6	6	5	5	10	13	14	20	21	20	18	19	19	22	18	15	10	11	10	12.4	22.2	
7-Oct-06	8	5	4	5	6	8	7	9	11	12	15	15	15	15	15	14	14	10	7	5	4	5	7	8	9.4	15.5	
8-Oct-06	6	6	5	7	7	7	6	5	4	6	7	8	9	9	11	12	11	8	6	6	6	7	7	8	7.2	11.5	
9-Oct-06	5	6	7	6	6	8	8	8	7	6	6	8	14	25	24	25	23	16	12	13	14	14	13	16	12.2	25.3	
10-Oct-06	14	16	15	14	11	9	8	5	4	8	7	9	9	9	12	13	12	12	11	11	11	10	10	11	10.6	16.0	
11-Oct-06	10	8	6	7	7	6	8	7	7	7	7	6	9	9	8	9	8	6	7	8	7	6	6	6	7.4	10.2	
12-Oct-06	7	7	7	6	7	6	5	5	6	7	5	5	7	9	7	6	9	10	9	8	8	7	6	7	6.8	9.5	
13-Oct-06	7	6	7	8	7	6	5	5	8	9	10	10	11	12	12	13	12	12	11	11	10	8	8	7	9.1	13.3	
14-Oct-06	6	6	9	8	7	8	8	9	8	9	10	9	8	10	10	9	7	7	8	8	6	7	5	4	7.8	10.2	
15-Oct-06	4	4	4	4	4	4	4	9	18	19	20	18	19	18	17	18	17	18	17	16	14	12	12	13	12.5	19.6	
16-Oct-06	11	11	16	17	16	17	16	14	15	16	15	14	14	13	14	13	11	12	11	9	7	6	6	11	12.8	16.9	
17-Oct-06	12	13	11	7	7	8	8	9	7	8	10	10	11	11	12	11	15	13	11	10	15	24	20	8	11.2	23.6	
18-Oct-06	4	4	5	4	11	9	6	10	9	6	9	11	26	24	21	14	12	9	11	11	11	10	10	9	10.7	26.3	
19-Oct-06	8	8	6	6	4	4	6	7	5	5	6	7	9	10	9	22	18	16	21	20	21	21	19	19	11.6	21.8	
20-Oct-06	22	18	17	16	11	9	9	8	7	9	13	13	14	14	8	7	5	6	6	5	11	8	6	9	10.4	22.1	
21-Oct-06	9	7	6	5	6	6	6	6	4	5	7	6	9	9	11	11	11	11	9	9	8	6	5	6	7.4	10.9	
22-Oct-06	7	5	5	4	5	5	5	5	4	5	5	5	7	7	6	9	8	7	15	25	23	19	17	17	8.6	25.4	
23-Oct-06	10	15	12	12	14	13	10	13	7	7	12	18	11	15	16	15	10	7	9	9	8	9	10	10	11.4	18.4	
24-Oct-06	11	10	9	8	7	7	7	7	6	8	7	8	10	13	19	15	17	16	12	23	19	19	19	19	12.3	23.1	
25-Oct-06	18	19	22	21	19	21	18	13	16	12	13	22	29	24	17	17	19	18	14	12	18	23	14	10	17.8	29.0	
26-Oct-06	21	31	26	23	18	14	14	15	10	19	25	32	33	35	37	35	34	23	15	13	17	12	13	13	22.1	36.9	
27-Oct-06	10	7	8	13	15	13	9	10	12	12	14	14	11	11	8	11	8	4	N	N	N	N	N	N	10.7	15.4	
28-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
29-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	14	13	17	14	13	16	14	9	13	14	N	16.7	
30-Oct-06	12	13	12	16	11	13	10	11	N	N	N	13	N	N	9	8	8	N	N	N	N	N	N	N	N	N	15.7
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	16	16	14	13	10	6	6	7	6	6	5	N	16.5		
1-hr Average	10.1	10.0	9.7	9.6	9.2	8.9	7.7	8.3	8.2	9.9	11.3	12.3	14.1	14.6	14.0	13.5	13.5	11.6	10.3	11.0	11.3	10.7	10.2	9.9			
Hourly Max	24.5	31.1	26.3	23.2	19.3	20.7	18.3	14.6	18.0	18.9	25.1	32.1	33.1	35.2	36.9	35.0	34.1	23.7	22.2	23.1	25.4	23.6	20.5	19.1			

PASZA - Henry Pirker - Vector Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

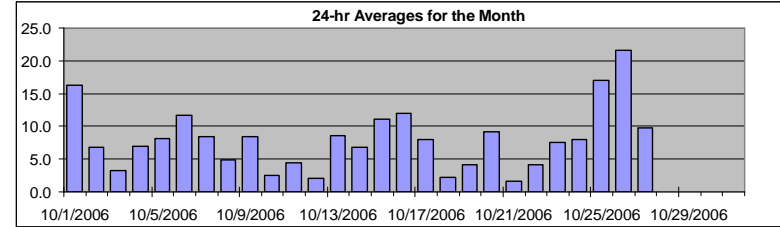
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	36.5	km/hr	26-Oct	14:00 15:00
Maximum 24-hr Value:	21.5	km/hr	26-Oct	



Calm Time:	2 hrs	0% calms	Operational Time:	675 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	91.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	29.0	21.8	13.5	9.0	5.9	2.9	1.7	28.3 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	0:00	
1-Oct-06	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	16.3	29.7		
2-Oct-06	24	22	19	17	15	14	3	5	7	17	22	21	23	22	23	19	30	23	11	12	15	13	10	10	10	16.3	12.7		
3-Oct-06	8	9	8	5	12	11	6	7	10	13	12	10	9	12	10	10	6	2	3	6	4	2	1	5	5	6.7	7.3		
4-Oct-06	6	4	7	7	5	2	3	4	5	7	5	6	5	4	4	4	6	2	4	3	3	3	4	4	4	3.2	7.3		
5-Oct-06	4	7	6	7	6	7	6	10	9	9	8	4	5	9	10	15	19	17	13	9	3	2	7	7	7	6.9	18.7		
6-Oct-06	10	3	6	5	4	3	3	6	7	15	21	24	26	19	11	7	3	5	6	12	15	12	11	11	11	8.2	25.6		
7-Oct-06	8	3	5	8	8	6	6	5	5	9	13	14	19	21	20	18	19	19	22	18	15	10	11	10	10	11.7	21.5		
8-Oct-06	8	5	3	5	6	8	7	8	11	12	14	15	14	15	14	14	14	10	7	3	2	5	7	5	5	8.4	14.8		
9-Oct-06	3	5	5	6	6	6	6	3	2	6	6	7	8	8	10	10	9	7	6	6	5	7	7	6	6	4.9	9.9		
10-Oct-06	4	3	6	6	6	8	7	8	6	5	6	7	14	25	24	25	23	16	12	13	14	14	13	16	16	8.5	25.0		
11-Oct-06	14	16	15	14	11	9	7	2	1	8	5	9	7	9	12	13	12	12	11	11	11	10	10	11	11	2.6	15.9		
12-Oct-06	10	8	5	6	7	5	7	7	7	7	6	3	9	8	8	9	8	5	6	8	7	5	5	6	6	4.4	10.1		
13-Oct-06	6	6	6	5	6	4	3	1	6	6	2	4	6	8	5	5	9	9	9	8	7	7	6	7	7	2.0	9.4		
14-Oct-06	6	5	6	8	7	6	3	4	7	9	10	10	11	11	12	13	12	12	11	11	10	8	8	7	8	8.6	13.1		
15-Oct-06	6	6	8	8	7	8	8	8	7	9	10	8	6	9	9	9	7	6	8	2	5	7	4	3	3	6.8	10.0		
16-Oct-06	3	4	4	3	3	4	3	9	18	19	20	18	18	18	17	18	17	18	17	16	14	12	12	12	12	11.1	19.5		
17-Oct-06	11	11	16	17	16	17	16	14	15	15	15	14	14	13	14	12	11	12	11	9	6	6	3	11	11	12.0	16.8		
18-Oct-06	11	13	10	7	7	8	8	9	7	7	10	9	11	10	12	11	15	12	10	10	14	24	20	7	7	7.9	23.6		
19-Oct-06	calm	3	5	3	10	7	6	9	8	4	7	11	26	24	21	14	12	9	9	11	11	10	10	8	8	2.3	26.1		
20-Oct-06	8	7	6	6	2	4	6	7	2	1	2	6	8	10	7	21	17	15	21	20	21	21	20	19	19	4.1	20.9		
21-Oct-06	22	18	17	16	10	9	9	8	7	8	13	13	14	13	7	4	4	6	3	3	11	7	6	8	8	9.2	22.1		
22-Oct-06	6	6	6	5	5	5	6	5	4	4	7	5	8	9	11	11	10	11	9	9	7	3	5	5	5	1.6	10.6		
23-Oct-06	5	4	4	2	1	2	calm	4	1	3	4	2	3	5	6	3	9	8	5	15	25	23	19	16	16	4.1	25.2		
24-Oct-06	9	15	12	12	14	13	10	13	6	6	11	18	10	15	16	14	10	7	9	9	7	8	10	10	10	7.6	18.2		
25-Oct-06	10	9	9	6	1	6	4	4	3	6	7	8	9	12	19	15	17	15	12	23	19	19	19	19	19	8.0	23.1		
26-Oct-06	18	19	22	21	19	21	18	12	15	11	13	22	29	23	17	17	18	17	14	12	17	23	13	9	9	17.0	28.7		
27-Oct-06	21	31	26	23	18	14	12	14	9	19	25	32	33	35	37	24	34	23	15	13	16	11	13	13	13	21.5	36.5		
28-Oct-06	9	4	5	13	15	12	8	9	12	12	11	13	14	11	11	4	10	8	4	N	N	N	N	N	N	9.8	15.2		
29-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
30-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	14	13	17	14	13	16	14	9	13	12	N	16.6		
31-Oct-06	11	13	11	15	11	12	10	11	N	N	N	12	N	N	9	7	8	N	N	N	N	N	N	N	N	N	N	15.4	
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	16	16	14	13	10	6	5	6	4	4	5	2	N	16.4		
1-hr Vector	5.8	5.3	4.5	4.5	5.4	4.9	3.3	2.9	3.0	5.1	6.2	7.1	7.8	7.8	6.9	6.8	7.3	5.8	3.8	3.4	4.7	5.9	5.4	5.1	5.1				
Hourly Max	24.5	31.0	26.1	23.0	19.3	20.7	18.2	13.8	18.0	18.6	24.9	31.8	32.8	34.9	36.5	24.8	34.0	23.1	21.5	23.1	25.2	23.6	20.5	19.1	19.1				

PASZA - Henry Pirker - Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Calm Time: 0 hrs	0% calms	Operational Time: 713 hrs
Calibration Time: 0 hrs		AMD Operational Uptime: 95.8%
Percentile	99 95 75 50 25 5 1	Average
	342.7 321.4 279.8 240.1 139.6 55.2 20.3	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			23:00 0:00
1-Oct-06	239	237	234	232	229	245	306	300	261	255	248	256	265	273	273	267	246	249	299	252	239	243	246	247	252	WSW	
2-Oct-06	233	246	268	218	240	243	223	230	240	238	239	232	208	196	201	234	253	270	87	96	104	274	301	290	233	SW	
3-Oct-06	282	283	277	279	300	171	200	198	242	275	237	186	212	224	228	208	167	284	49	36	130	265	297	308	244	WSW	
4-Oct-06	264	230	261	274	295	223	170	149	151	177	160	178	192	173	181	230	231	240	254	248	277	146	226	179	215	SW	
5-Oct-06	154	211	192	191	149	145	217	263	285	289	275	269	282	287	269	188	148	156	199	238	262	266	265	250	254	WSW	
6-Oct-06	248	223	246	269	252	243	277	293	274	247	240	254	264	276	295	295	289	288	246	244	246	263	276	265	266	W	
7-Oct-06	254	244	208	213	232	261	280	264	250	243	263	294	268	275	292	270	272	277	294	12	359	275	281	317	271	W	
8-Oct-06	249	301	269	266	319	268	279	275	253	267	229	219	190	216	235	213	227	197	142	119	140	143	169	235	227	SW	
9-Oct-06	265	146	161	122	156	153	143	140	133	162	229	236	277	272	264	272	279	282	264	250	252	257	236	240	247	WSW	
10-Oct-06	240	243	261	256	254	270	269	187	280	313	30	73	64	58	57	62	61	63	66	57	58	56	68	70	36	NE	
11-Oct-06	69	69	54	2	7	42	91	68	92	113	122	101	80	83	79	84	69	50	332	314	299	294	317	306	55	NE	
12-Oct-06	297	286	308	286	296	133	168	352	324	327	203	196	4	317	24	55	84	85	90	100	86	79	61	89	33	NNE	
13-Oct-06	27	35	63	71	67	31	1	68	93	89	82	91	81	78	75	67	60	47	43	55	63	67	60	56	64	ENE	
14-Oct-06	50	65	78	65	55	69	79	83	97	99	92	83	120	97	93	87	71	149	110	90	11	352	59	62	81	E	
15-Oct-06	106	100	123	146	250	264	261	298	297	291	282	287	284	288	294	293	296	291	287	286	290	301	300	307	290	WNW	
16-Oct-06	317	333	339	339	337	339	339	329	333	337	337	335	338	344	332	337	343	327	321	341	345	280	259	246	331	NNW	
17-Oct-06	233	221	220	168	180	147	151	149	148	160	200	210	212	199	204	204	238	264	275	301	285	261	265	328	226	SW	
18-Oct-06	214	87	129	123	268	230	146	154	105	168	284	302	281	290	305	303	311	314	24	74	95	95	101	94	299	WNW	
19-Oct-06	93	109	96	112	52	57	104	99	68	292	65	107	132	144	186	284	280	305	303	278	283	299	299	304	296	WNW	
20-Oct-06	301	303	304	306	286	249	261	261	258	285	294	285	282	297	305	262	267	309	190	157	241	289	237	290	283	WNW	
21-Oct-06	272	284	295	284	303	306	288	285	308	160	156	147	103	103	94	93	89	86	65	75	90	9	326	271	69	ENE	
22-Oct-06	312	111	106	156	90	274	164	170	153	206	169	163	146	133	108	40	314	300	302	263	259	255	247	243	240	WSW	
23-Oct-06	264	241	242	242	240	263	269	239	280	252	236	230	265	236	204	207	198	143	155	142	110	90	128	117	222	SW	
24-Oct-06	129	103	95	96	230	309	299	149	335	145	156	162	178	214	254	241	233	237	231	240	239	236	239	238	223	SW	
25-Oct-06	238	240	240	241	242	242	242	230	237	224	208	230	236	230	201	196	208	209	208	184	199	220	244	252	226	SW	
26-Oct-06	258	238	233	221	234	239	250	250	232	243	243	246	250	251	249	243	269	267	269	266	264	249	263	263	249	WSW	
27-Oct-06	242	263	328	303	283	274	276	271	258	258	255	272	300	288	286	317	251	232	251	260	260	245	322	314	275	W	
28-Oct-06	20	59	68	50	79	71	55	66	73	70	78	78	78	64	63	66	65	62	56	47	42	39	38	47	N	-	
29-Oct-06	60	95	N	N	N	N	N	N	N	N	322	323	315	315	311	308	294	316	319	332	326	316	243	243	289	N	-
30-Oct-06	298	275	291	271	302	282	307	307	N	N	N	269	N	N	307	302	304	N	N	N	N	N	N	N	N	N	-
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	306	302	303	300	302	314	349	353	22	294	36	46	N	-
Hourly Avg	259	248	256	254	264	256	254	242	257	250	243	248	261	261	266	264	268	274	284	271	265	263	262	269			

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

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	713 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	95.8%			
Percentile	99	95	75	50	25	5	1
	58.2	42.9	19.5	11.9	7.5	4.5	3.5

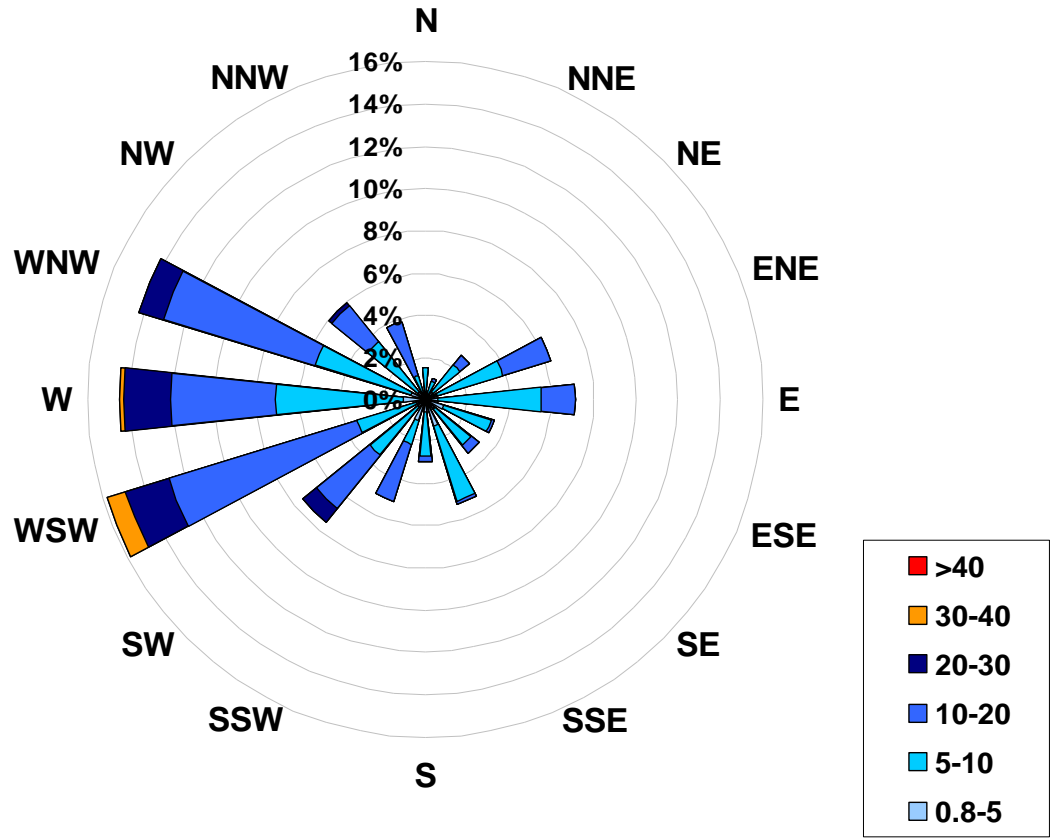
Status Flag Characters

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

Day	Mountain Standard Time																							Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00		22:00 23:00	23:00 0:00
1-Oct-06	4	10	5	5	6	17	21	19	18	9	9	10	10	12	10	7	10	5	6	4	6	10	9	21.2		
2-Oct-06	13	14	18	14	6	6	14	16	9	11	13	18	23	19	30	20	32	53	42	4	11	54	43	22	54.3	
3-Oct-06	15	12	8	6	14	19	26	20	18	10	33	38	47	51	42	45	18	39	30	19	19	15	9	9	50.6	
4-Oct-06	29	18	16	17	26	39	18	6	7	13	13	19	37	22	19	12	6	5	9	19	51	40	18	21	51.4	
5-Oct-06	7	45	25	36	38	24	42	40	17	8	13	6	6	5	9	12	31	13	13	10	5	6	4	9	44.9	
6-Oct-06	12	37	19	12	10	10	12	14	18	12	8	15	11	10	9	9	5	6	8	5	5	14	6	9	37.0	
7-Oct-06	10	16	19	18	11	8	11	12	7	8	11	13	14	15	17	15	10	5	8	30	29	18	11	25	29.7	
8-Oct-06	19	28	22	12	23	10	10	37	47	15	30	26	21	22	23	17	19	16	12	11	10	5	10	15	46.8	
9-Oct-06	41	36	13	22	18	5	6	9	12	21	17	22	9	9	9	7	4	4	9	5	6	5	6	4	41.5	
10-Oct-06	5	5	7	5	10	7	8	43	59	15	28	15	26	20	14	12	16	10	9	8	12	8	9	7	58.5	
11-Oct-06	18	11	17	17	12	28	16	20	22	28	28	38	22	20	18	12	15	23	19	9	13	26	14	16	38.4	
12-Oct-06	22	19	21	29	20	47	56	56	22	26	48	42	39	28	32	30	14	10	7	9	11	10	13	18	56.1	
13-Oct-06	18	23	18	11	12	19	36	38	11	11	13	16	14	14	15	10	10	11	10	9	8	9	8	11	38.2	
14-Oct-06	23	12	8	10	16	11	12	14	26	11	12	26	31	25	25	12	17	20	11	41	28	19	43	26	42.6	
15-Oct-06	15	12	10	11	12	11	9	6	5	5	6	5	6	5	6	5	5	3	4	4	4	5	5	5	15.2	
16-Oct-06	5	6	4	5	5	5	4	5	6	5	6	7	8	11	8	9	14	11	11	12	26	26	33	11	33.1	
17-Oct-06	13	15	12	9	12	7	13	8	8	15	13	17	15	13	12	11	7	9	18	8	4	3	5	18	18.3	
18-Oct-06	61	28	18	53	28	15	19	26	12	23	13	13	4	7	6	7	8	8	13	13	9	10	9	10	61.3	
19-Oct-06	13	13	12	14	36	22	16	13	32	76	58	21	32	11	16	20	8	11	5	4	4	5	5	4	75.6	
20-Oct-06	3	5	5	6	7	9	12	13	6	9	6	7	10	11	26	47	40	6	28	30	12	11	23	10	47.3	
21-Oct-06	16	19	15	13	11	20	17	12	14	33	16	26	19	23	13	14	9	7	15	7	18	27	23	45	44.8	
22-Oct-06	28	36	23	38	58	44	48	33	60	50	36	64	62	36	22	25	7	13	40	14	6	7	9	6	63.8	
23-Oct-06	14	12	5	9	5	6	7	6	20	17	12	8	14	9	7	8	11	16	12	11	18	9	6	8	19.8	
24-Oct-06	8	6	6	42	41	27	50	56	45	43	11	14	15	16	6	8	8	7	7	3	4	4	4	4	55.6	
25-Oct-06	4	10	3	4	4	4	5	8	6	8	14	11	7	10	13	11	9	8	8	13	9	6	7	13	13.6	
26-Oct-06	7	5	6	6	6	8	17	13	18	12	7	6	7	7	6	41	6	4	8	9	6	10	6	6	40.9	
27-Oct-06	13	44	52	7	6	9	17	9	7	7	8	8	8	11	10	51	26	12	13	4	1	45	33	20	51.6	
28-Oct-06	25	33	38	39	26	34	34	12	9	9	8	7	8	9	9	7	7	9	13	11	14	11	12	13	39.4	
29-Oct-06	17	24	N	N	N	N	N	N	N	5	5	4	5	10	5	7	3	6	7	6	10	22	9	23	24.2	
30-Oct-06	22	14	18	10	16	7	7	5	N	N	N	8	N	N	7	10	9	N	N	N	N	N	N	N	21.7	
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	10	3	3	4	4	17	26	22	47	40	33	58	58.2

Hourly Max	61	45	52	53	58	47	56	56	60	76	58	64	62	51	42	51	40	53	42	41	51	54	43	58
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1-hr Average Wind Rose (in km/hr) Located at the Henry Pirker Site for October 2006



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	64
5	to	10	300
10	to	20	261
20	to	30	45
30	to	40	7
	>	40	0
Total Non-Zero Values			677

PASZA – Evergreen Park Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Evergreen Park - Sulphur Dioxide Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

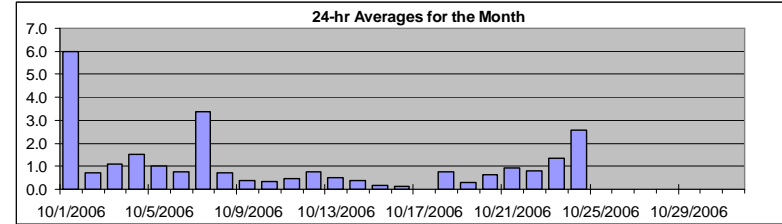
Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	57.5 ppb 1-Oct 11:00 12:00
Maximum 24-hr Average:	6.0 ppb 1-Oct



AIC Time:	26 hrs	Operational Time:	552 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	78.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	22.0	2.6	0.7	0.4	0.2	0.0	0.0	1.1 ppb	0.4 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
1-Oct-06	0	0	0	0	0	0	23	5	10	1	1	57	38	1	1	0	0	0	0	A	0	0	0	0	6.0	57.5	
2-Oct-06	0	0	0	0	0	0	0	1	1	2	1	0	0	0	0	8	0	0	A	0	0	0	0	0	0.7	8.2	
3-Oct-06	0	6	1	0	0	0	0	1	1	3	2	0	0	0	5	2	0	A	0	1	0	0	0	1	1.1	6.5	
4-Oct-06	0	0	0	0	0	0	0	0	1	2	0	1	1	1	3	21	A	1	0	0	0	0	1	1	1.5	21.5	
5-Oct-06	0	0	2	0	0	0	1	1	1	6	2	1	1	2	4	A	1	0	1	1	0	0	0	0	1.0	5.7	
6-Oct-06	0	0	0	0	0	0	0	0	1	2	1	9	1	0	A	0	0	0	0	1	0	0	0	0	0.8	8.8	
7-Oct-06	0	0	0	0	0	0	0	30	25	5	11	2	1	A	1	0	0	0	0	0	1	0	1	0	3.4	30.1	
8-Oct-06	0	0	0	0	0	0	2	5	1	0	0	1	A	1	1	1	1	0	0	0	0	0	0	0	0.7	5.3	
9-Oct-06	0	0	0	0	0	0	0	0	0	0	0	A	0	1	1	1	1	1	1	0	0	0	1	0	0.4	0.8	
10-Oct-06	0	0	0	0	0	0	0	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.0	
11-Oct-06	0	0	0	0	0	0	0	0	0	0	A	1	1	1	1	0	0	0	0	1	1	1	1	1	0.4	1.5	
12-Oct-06	1	1	0	0	0	0	1	0	A	2	1	1	2	1	1	1	1	1	1	0	0	0	0	0	0.8	2.2	
13-Oct-06	0	0	0	0	0	0	1	A	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0.5	1.1	
14-Oct-06	0	0	0	0	0	0	A	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0.4	0.7	
15-Oct-06	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
16-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
17-Oct-06	0	0	0	A	0	0	0	0	0	C	C	C	C	C	A	0	0	0	0	0	0	0	0	0	N	0.4	
18-Oct-06	0	0	0	0	0	A	0	0	1	0	8	3	0	0	0	0	0	1	1	0	0	0	0	0	0.8	8.5	
19-Oct-06	0	0	0	0	A	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.3	1.0	
20-Oct-06	0	1	1	A	0	0	0	0	1	1	4	0	0	0	0	0	1	0	0	0	0	1	0	0	0.6	4.1	
21-Oct-06	0	0	A	0	0	0	1	1	1	1	1	1	2	2	3	3	2	1	1	1	1	0	0	0	0.9	3.2	
22-Oct-06	0	A	0	0	0	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	0	0	0	0	0.8	1.8	
23-Oct-06	A	0	0	0	0	0	1	1	4	1	1	0	9	8	1	0	1	0	1	0	0	0	0	A	1.4	8.8	
24-Oct-06	1	1	2	1	1	1	1	1	1	2	2	1	1	1	2	28	2	3	1	9	2	0	A	0	2.6	27.7	
25-Oct-06	0	0	0	0	0	0	0	P	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.2
26-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
27-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
28-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
29-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
30-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
Hourly Avg	0.2	0.5	0.4	N	N	N	1.3	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.3	0.3	N	N	
Hourly Max	0.7	6.5	1.8	0.8	0.5	0.6	22.5	30.1	24.8	5.7	11.2	57.5	37.9	7.6	5.3	27.7	2.0	2.9	1.3	8.7	1.6	0.9	1.4	0.8			

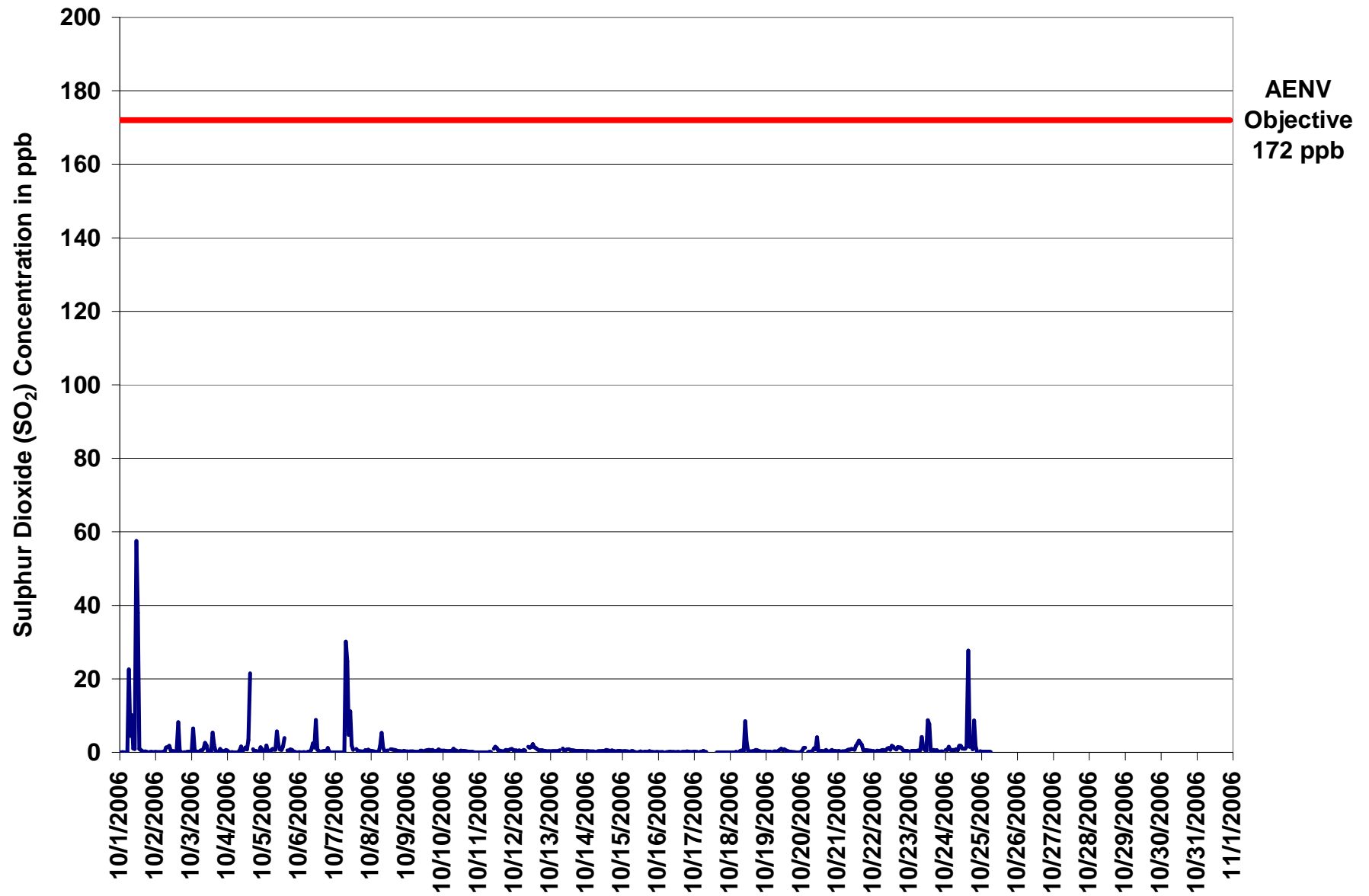


Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

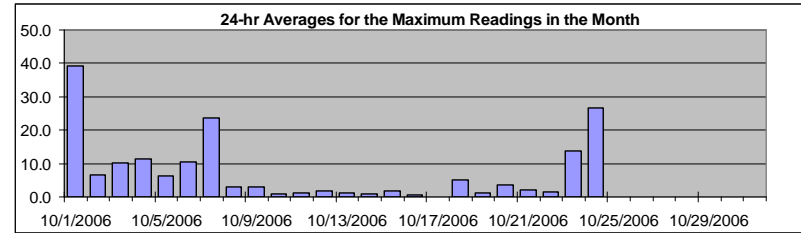
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	326.8	ppb	1-Oct	11:00 12:00
Maximum 24-hr Value:	39.1	ppb	1-Oct	



AIC Time:	26 hrs	Operational Time:	552 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	78.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	145.3	25.4	2.0	1.0	0.8	0.5	0.1	7.4 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																								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-Oct-06	1	1	1	1	0	0	114	47	77	11	7	327	289	5	12	2	1	1	1	A	1	1	1	1	39.1	326.8		
2-Oct-06	1	1	1	1	1	1	1	6	10	16	4	1	11	1	1	83	9	1	A	0	1	1	1	1	6.6	82.7		
3-Oct-06	1	26	5	1	1	1	1	1	14	52	64	1	1	1	35	23	1	A	1	3	1	1	1	1	10.3	64.2		
4-Oct-06	1	1	0	1	1	1	1	0	2	6	1	2	2	2	77	137	A	9	1	8	1	0	9	2	11.5	137.2		
5-Oct-06	1	0	8	1	2	1	5	2	3	26	8	7	7	21	26	A	1	1	4	19	3	1	0	1	6.4	26.2		
6-Oct-06	1	1	0	1	1	0	1	2	3	29	10	126	4	4	A	1	1	6	1	45	5	1	1	1	10.5	125.6		
7-Oct-06	1	0	0	0	0	1	1	178	154	56	104	17	2	A	21	1	1	1	1	1	1	1	2	1	23.7	178.3		
8-Oct-06	1	1	1	1	1	1	20	16	4	3	1	1	A	1	1	1	7	1	1	1	1	1	1	1	2.9	20.1		
9-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	12	2	1	1	18	5	12	2.9	17.9		
10-Oct-06	1	1	1	1	1	1	1	3	1	1	A	1	1	1	1	1	1	1	1	1	1	0	0	0	1.0	3.2		
11-Oct-06	0	0	1	0	1	0	1	1	1	A	2	3	2	1	1	1	1	1	2	1	1	2	2	1	1.1	2.7		
12-Oct-06	1	1	1	1	1	1	2	1	A	3	4	2	10	2	2	1	1	1	1	1	1	1	1	1	1.8	9.7		
13-Oct-06	1	1	1	1	1	1	2	A	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.6		
14-Oct-06	1	1	1	1	1	1	A	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	0.9	1.7		
15-Oct-06	1	1	1	1	1	A	1	1	1	1	1	1	7	1	1	5	1	1	15	1	1	1	1	1	1.9	14.9		
16-Oct-06	1	1	1	1	A	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0.7	0.8		
17-Oct-06	1	1	1	A	1	1	5	1	1	C	C	C	C	A	0	0	4	2	6	0	5	2	0	0	N	5.8		
18-Oct-06	0	0	0	0	1	A	1	1	1	1	70	25	4	1	1	1	1	4	1	1	1	1	1	1	5.1	69.7		
19-Oct-06	1	1	1	1	A	1	1	1	1	4	2	2	2	1	1	1	1	1	3	1	1	1	1	3	1.2	3.8		
20-Oct-06	2	2	3	A	1	1	0	2	5	2	37	1	1	3	1	1	3	1	1	1	7	1	5	1	3.5	36.7		
21-Oct-06	1	1	A	1	1	1	1	2	2	2	4	1	4	4	6	4	4	1	2	1	1	1	1	1	2.0	6.0		
22-Oct-06	1	A	1	1	1	1	2	1	1	2	2	1	3	2	2	2	2	2	2	2	1	2	1	1	1.5	3.1		
23-Oct-06	A	1	1	1	1	1	1	2	16	5	6	2	175	78	1	1	2	2	2	1	1	1	1	A	13.7	175.2		
24-Oct-06	1	1	3	1	1	2	1	2	2	4	3	2	2	7	14	254	15	127	19	129	19	1	A	1	26.6	254.3		
25-Oct-06	1	1	1	1	1	1	1	P	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.9		
26-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
27-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
28-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
29-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
30-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
Hourly Avg	0.9	1.9	1.4	N	N	N	6.8	N	N	N	N	N	N	N	N	N	N	N	N	N	2.1	1.8	N	N				
Hourly Max	2.1	26.1	7.8	1.3	1.6	2.5	113.9	178.3	153.6	55.8	103.8	326.8	289.2	77.8	77.4	254.3	14.8	127.0	19.1	128.6	18.6	17.9	9.3	12.2				

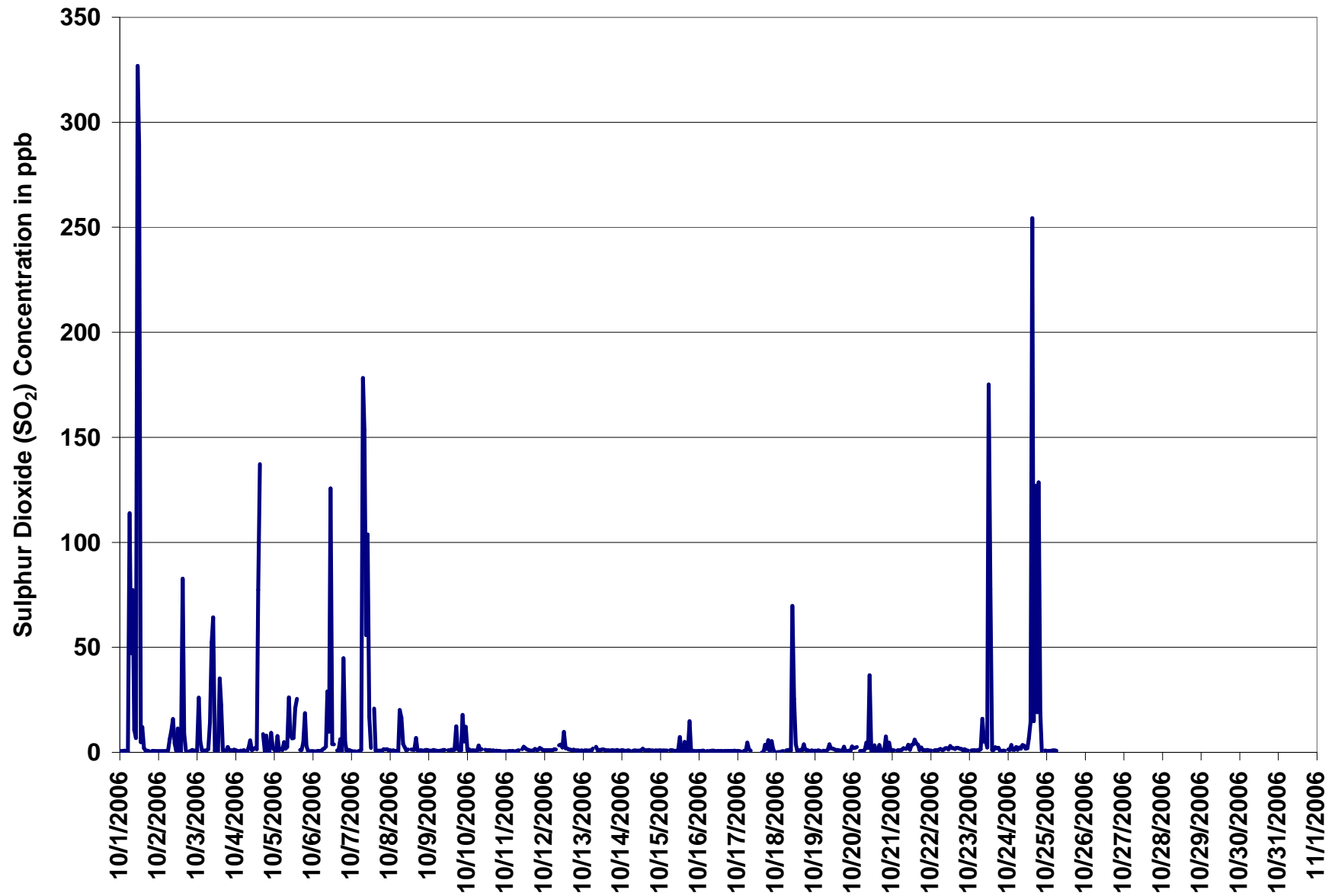
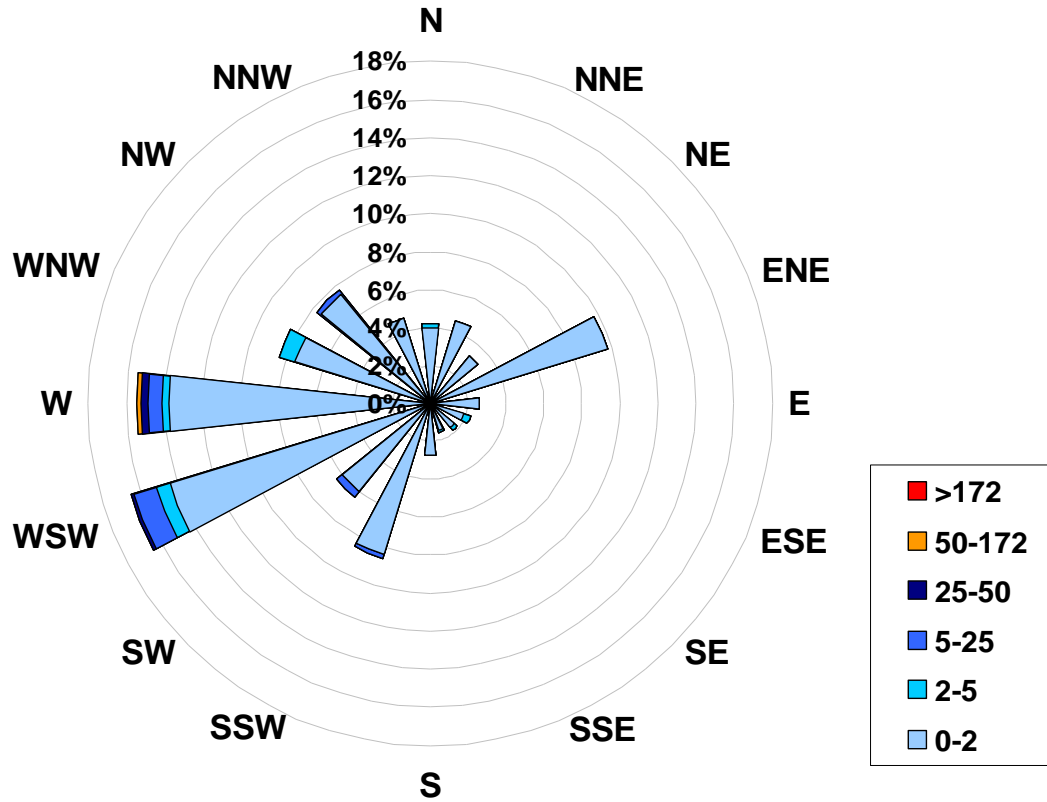


Figure 21. PASZA - Evergreen Park Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range			Frequency (hrs)
0.0	<	2	517
2	to	5	16
5	to	25	15
25	to	50	3
50	to	172	1
	>	172	0
Total Non-Zero Values			552

PASZA - Evergreen Park - Total Reduced Sulphur Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

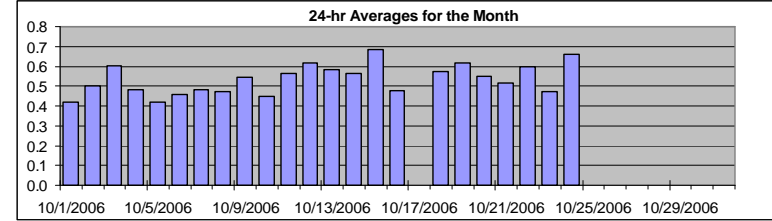
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Maximum 1-hr Average:	2.0	ppb	19-Oct	12:00 13:00
Maximum 24-hr Value:	0.7	ppb	15-Oct	



AIC Time:	26 hrs	Operational Time:	552 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	78.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.0	0.8	0.6	0.5	0.4	0.4	0.3	0.5 ppb	0.5 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum			
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00				
1-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	A	0	0	0	0	0	0.4	0.5		
2-Oct-06	0	0	0	0	0	0	0	1	1	0	0	0	1	0	1	1	1	1	A	0	0	1	1	1	1	0.5	0.6		
3-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.6	0.7		
4-Oct-06	1	1	0	0	0	0	0	0	0	1	0	1	0	1	0	0	A	0	0	0	0	0	0	0	1	0.5	0.7		
5-Oct-06	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.4	0.5		
6-Oct-06	0	0	0	0	0	0	1	1	0	1	1	0	0	0	A	0	0	0	0	0	0	0	0	0	1	0.5	1.0		
7-Oct-06	0	0	0	0	0	0	0	1	0	0	1	1	1	A	1	1	1	1	1	0	1	0	0	0	0	0.5	0.6		
8-Oct-06	1	0	0	0	0	0	0	0	0	0	0	0	A	1	1	0	1	0	1	0	1	1	1	1	1	0.5	0.6		
9-Oct-06	1	1	1	0	0	0	0	1	0	1	1	A	1	1	1	1	1	1	1	1	1	1	0	1	0.5	0.7			
10-Oct-06	0	0	1	0	0	0	0	0	0	1	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.4	0.6		
11-Oct-06	0	0	0	0	0	0	0	0	1	A	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0.6	1.0		
12-Oct-06	1	1	1	1	1	1	1	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0.6	0.9		
13-Oct-06	0	1	1	1	1	0	1	A	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0.6	1.0		
14-Oct-06	1	1	0	0	0	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8		
15-Oct-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0.7	0.9		
16-Oct-06	1	0	0	1	A	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.5	0.6		
17-Oct-06	0	0	0	A	0	0	0	0	0	C	C	C	C	C	A	1	1	1	1	1	1	1	1	1	1	N	0.7		
18-Oct-06	1	0	0	0	1	A	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8		
19-Oct-06	1	1	0	0	A	0	0	0	0	0	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	0.6	2.0		
20-Oct-06	1	1	1	A	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0.5	0.8		
21-Oct-06	0	0	A	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1	0.5	0.9		
22-Oct-06	1	A	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0.6	0.8		
23-Oct-06	A	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	1	0	1	0	0	0	1	A	1	0.5	0.6		
24-Oct-06	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	A	1	1	0.7	1.2		
25-Oct-06	1	1	1	0	0	1	1	P	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.6	0.6	
26-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	0.0
27-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	0.0
28-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	0.0
29-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	0.0
30-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	0.0
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	0.0
Hourly Avg	0.5	0.5	0.5	N	N	N	0.5	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.6	0.5	N	N				
Hourly Max	0.7	0.8	0.8	0.8	0.8	1.0	0.7	0.8	0.8	1.0	1.2	0.8	2.0	0.8	0.9	0.7	0.7	0.8	0.8	0.7	1.0	1.0	0.9	0.8					

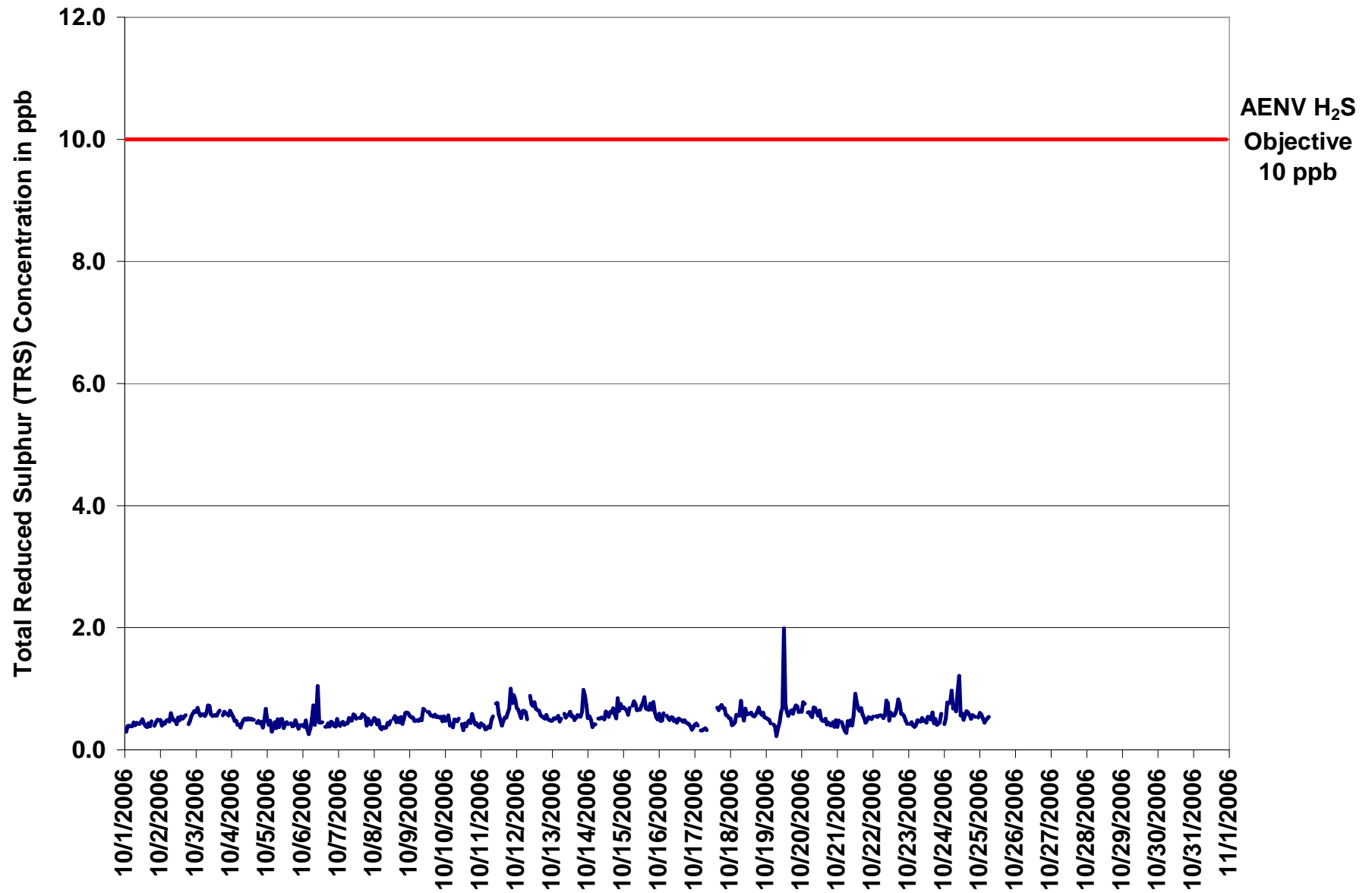


Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

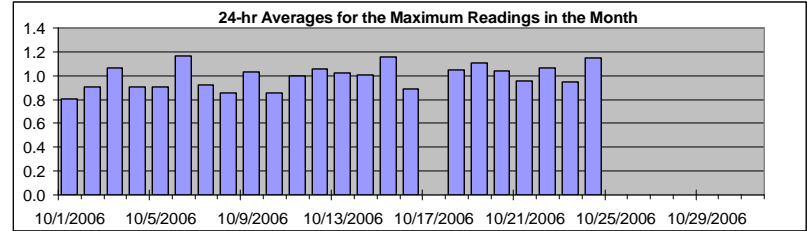
Total Reduced Sulphur (TRS)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	5.0	ppb	6-Oct	7:00 8:00
Maximum 24-hr Value:	1.2	ppb	6-Oct	

AIC Time:	26 hrs	Operational Time:	552 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	78.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.7	1.3	1.1	1.0	0.9	0.7	0.6	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																								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-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.8	0.9		
2-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.9	1.1		
3-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1.1	1.3		
4-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.9	1.1		
5-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	2	1	1	1	1	0.9	1.6		
6-Oct-06	1	1	1	1	1	1	1	5	1	1	3	1	1	1	A	1	1	1	1	1	1	1	1	1	1.2	5.0		
7-Oct-06	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		
8-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.9	1.4		
9-Oct-06	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	2	1	1	1.0	1.6		
10-Oct-06	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2		
11-Oct-06	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1.0	1.8		
12-Oct-06	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.4		
13-Oct-06	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.5		
14-Oct-06	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.5		
15-Oct-06	1	1	1	1	1	A	1	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1.2	1.8		
16-Oct-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1		
17-Oct-06	1	1	1	A	1	1	1	1	1	C	C	C	C	A	1	1	1	1	1	1	1	1	1	1	N	1.3		
18-Oct-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.4		
19-Oct-06	1	1	1	1	A	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1.1	3.2		
20-Oct-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.4		
21-Oct-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.3		
22-Oct-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.4		
23-Oct-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.4		
24-Oct-06	1	1	1	1	1	2	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1.2	2.1		
25-Oct-06	1	1	1	1	1	1	1	P	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	1.1	1.1	
26-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	0.0
27-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	0.0
28-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	0.0
29-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	0.0
30-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	0.0
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	0.0
Hourly Avg	0.9	1.0	0.9	N	N	N	0.9	N	N	N	N	N	N	N	N	N	N	N	N	N	1.0	1.1	N	N				
Hourly Max	1.4	1.4	1.3	1.2	1.3	1.6	1.2	5.0	1.3	1.6	2.7	1.4	3.2	1.2	1.4	1.2	1.4	1.4	1.8	1.6	1.8	1.6	1.4	1.2				

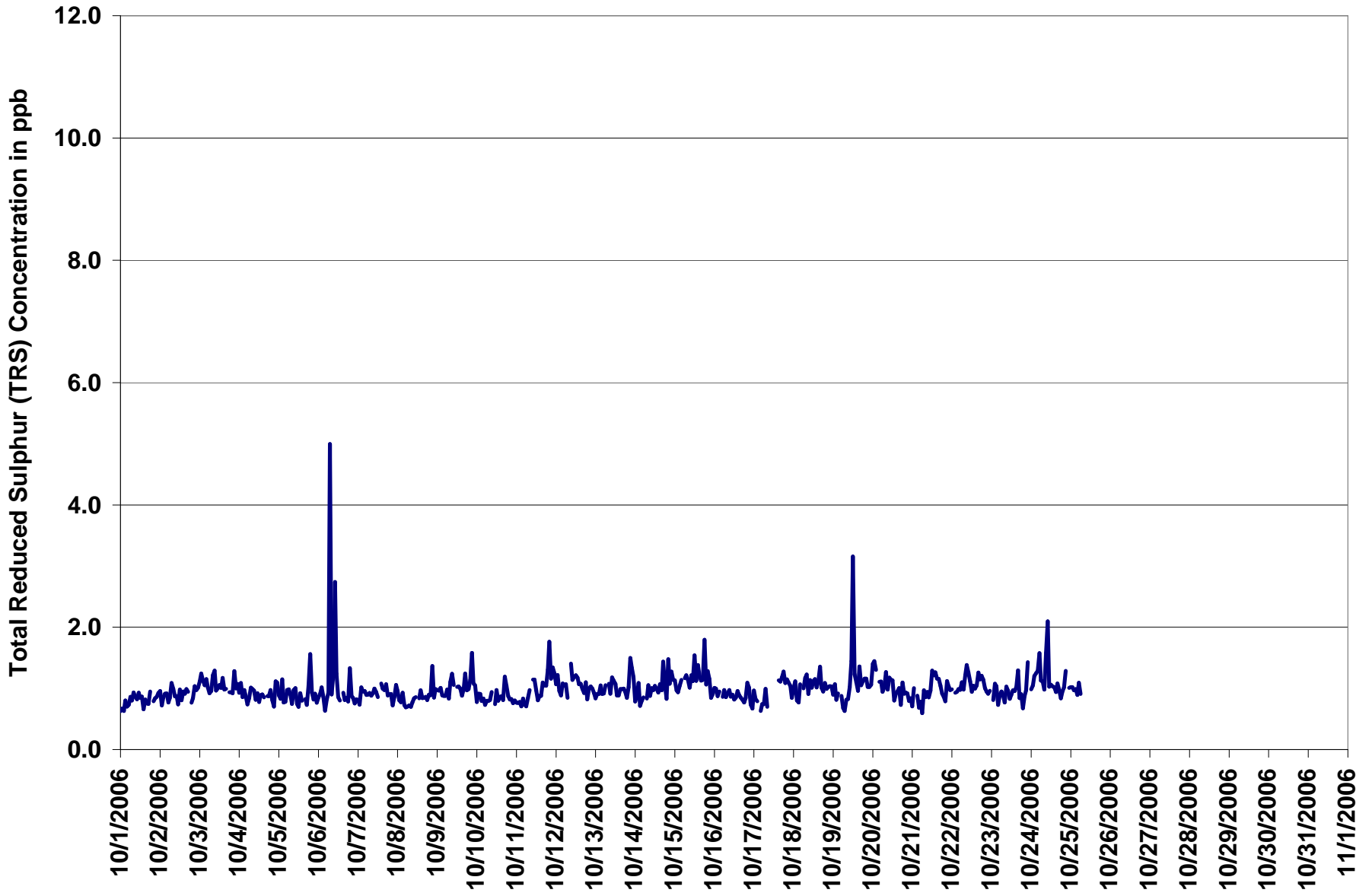
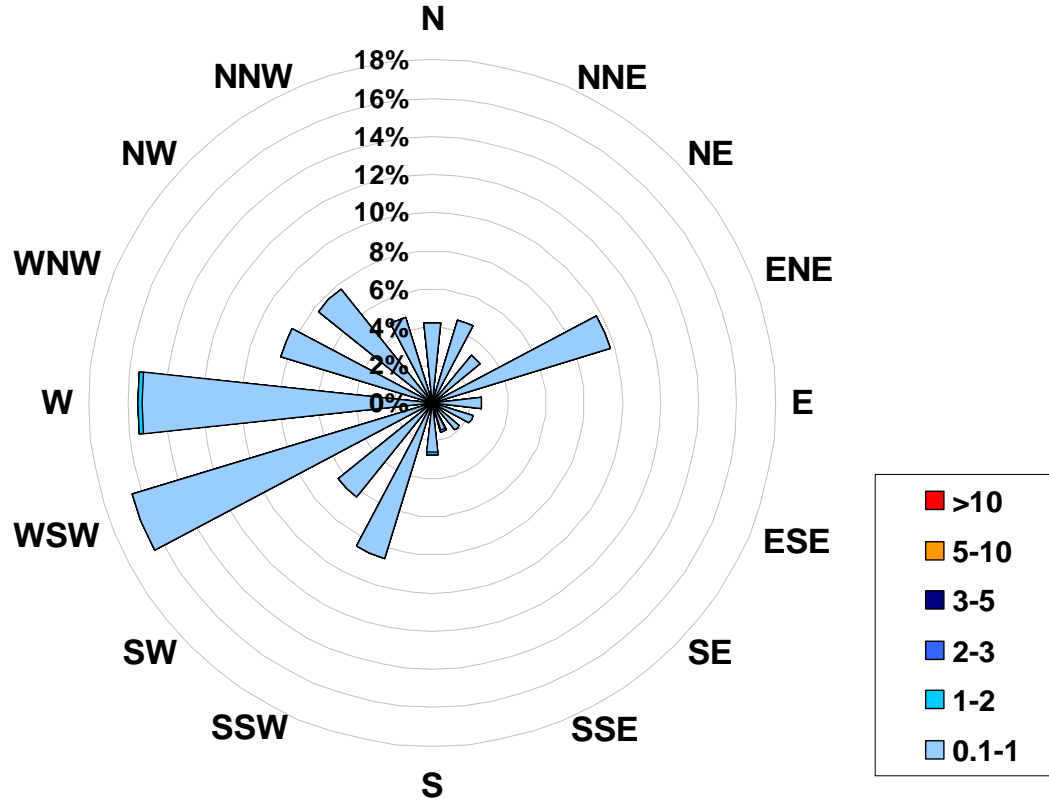


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of TRS in ppb			
Range			Frequency (hrs)
0.1	<	1	549
1	to	2	3
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			552

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

Station: Evergreen Park
 Station Owner: PASZA

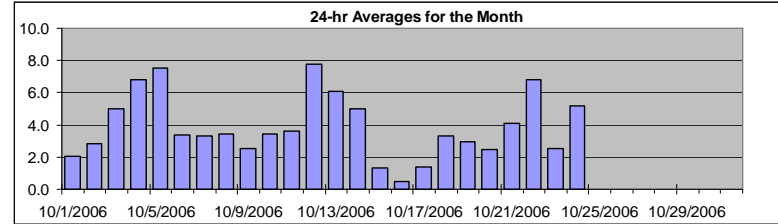
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2006 to November 1, 2006

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:	29.6 μg/m ³ 4-Oct 16:00 17:00
Maximum 24-hr Value:	7.8 μg/m ³ 12-Oct



AIC Time:	0 hrs	Operational Time:	582 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	78.2%
Percentile	99	95	75
	18.3	10.5	5.3
	5.0	2.9	1.3
	0.0	0.0	0.0
	Average / Median		3.9
	3 μg/m ³		3.3 μg/m ³

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	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-Oct-06	0	1	0	1	1	1	5	2	4	2	1	7	2	0	1	2	3	2	3	3	2	2	3	3	2.0	6.9	
2-Oct-06	2	2	2	2	2	3	3	11	8	3	2	1	0	0	0	2	1	1	1	2	3	5	6	5	2.8	10.7	
3-Oct-06	5	12	5	3	3	2	4	6	9	5	3	1	1	0	3	3	5	6	3	8	7	7	8	10	5.0	12.1	
4-Oct-06	10	6	3	3	2	2	2	3	8	5	1	0	1	0	1	14	30	18	14	12	5	4	9	11	6.8	29.6	
5-Oct-06	7	5	11	5	6	6	9	13	11	25	17	7	5	5	8	4	9	9	9	4	3	1	1	1	7.5	25.2	
6-Oct-06	1	1	0	1	1	1	3	5	8	8	6	6	4	2	0	1	2	4	12	5	4	3	3	1	3.4	11.7	
7-Oct-06	1	1	1	1	1	2	2	9	6	3	4	2	1	0	4	0	1	1	8	6	6	6	7	3.3	8.8		
8-Oct-06	8	7	6	3	3	2	4	7	6	4	4	3	2	1	1	0	1	2	2	3	3	3	4	3	3.4	7.5	
9-Oct-06	2	2	2	1	0	0	1	0	4	1	1	2	2	4	4	8	3	4	4	3	2	5	2	2	2.5	8.1	
10-Oct-06	0	1	2	2	2	4	4	16	6	6	6	4	3	4	4	3	3	3	3	2	2	1	0	0	3.4	15.8	
11-Oct-06	0	0	0	0	2	2	0	0	1	5	5	6	3	0	1	2	3	4	6	7	10	11	10	9	3.6	10.8	
12-Oct-06	9	9	7	8	8	7	9	8	10	20	9	9	13	10	8	7	5	3	4	4	4	5	6	7.8	20.0		
13-Oct-06	5	6	5	6	5	4	6	13	22	5	6	4	4	2	2	4	4	4	5	5	5	7	8	9	6.1	21.9	
14-Oct-06	10	7	7	7	6	4	4	3	5	4	4	4	5	4	5	5	5	7	5	5	3	5	4	3	5.0	9.9	
15-Oct-06	3	3	2	2	3	2	3	4	0	0	0	0	0	0	0	0	0	1	1	1	2	1	1	1	1.3	3.9	
16-Oct-06	1	0	0	0	0	1	0	1	1	1	0	0	1	0	0	0	0	1	1	1	0	1	0	0	0.5	1.4	
17-Oct-06	0	0	0	D	0	0	0	0	3	0	0	1	0	1	2	4	5	4	3	4	1	1	0	2	1.4	5.5	
18-Oct-06	2	1	2	3	5	3	2	3	5	7	9	4	0	0	1	2	5	4	4	4	3	3	2	2	3.3	9.1	
19-Oct-06	3	2	3	2	2	3	2	2	5	6	7	6	10	4	3	0	0	2	3	1	2	2	0	1	2.9	9.6	
20-Oct-06	1	2	2	0	2	1	1	5	8	6	3	0	0	0	0	0	3	2	2	6	5	3	2	4	2.4	8.5	
21-Oct-06	5	4	4	4	4	5	5	6	11	11	2	2	8	5	3	2	1	1	3	4	4	2	3	0	4.1	11.2	
22-Oct-06	2	2	2	2	2	3	4	5	7	9	11	4	7	7	10	11	18	21	16	9	2	4	3	2	6.8	21.4	
23-Oct-06	2	2	2	2	1	4	4	5	7	7	3	2	4	2	0	1	8	2	2	0	0	0	0	0	2.5	8.2	
24-Oct-06	0	0	3	4	5	6	7	10	9	19	11	5	11	1	5	8	3	3	3	5	2	1	2	2	5.2	18.5	
25-Oct-06	1	1	1	1	1	2	1	P	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	2.4	
26-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
27-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
28-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
29-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
30-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
Hourly Avg	3.2	3.1	2.9	2.6	2.7	2.8	3.5	5.7	7.0	6.8	4.7	3.3	3.6	2.1	2.7	3.5	5.0	4.6	4.9	4.4	3.3	3.4	3.5	3.5			
Hourly Max	9.9	12.1	11.5	7.7	8.1	6.9	9.0	15.8	21.9	25.2	17.0	9.4	12.6	10.1	10.2	14.2	29.6	21.4	16.0	11.9	9.8	10.8	10.2	11.4			

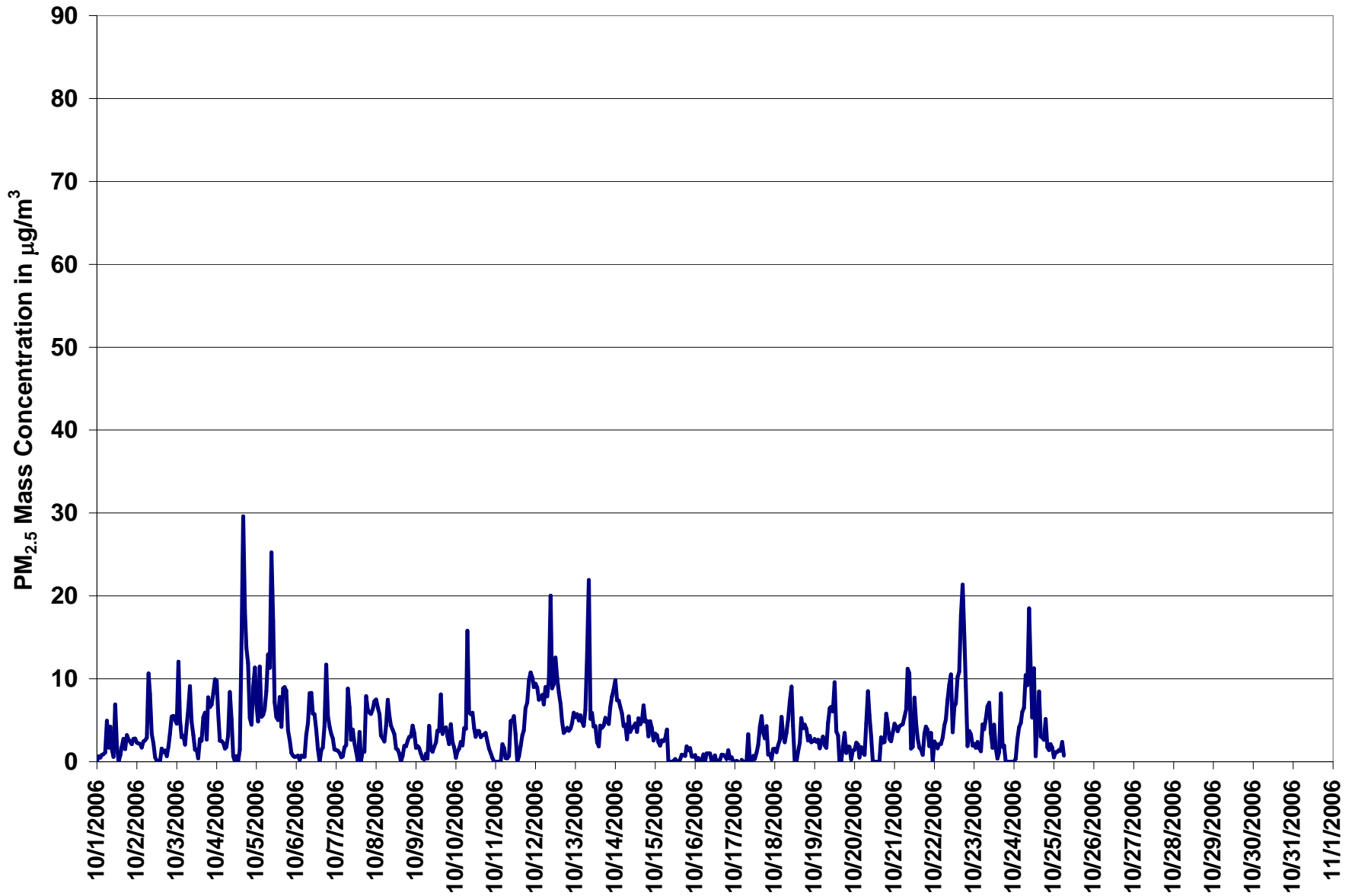


Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

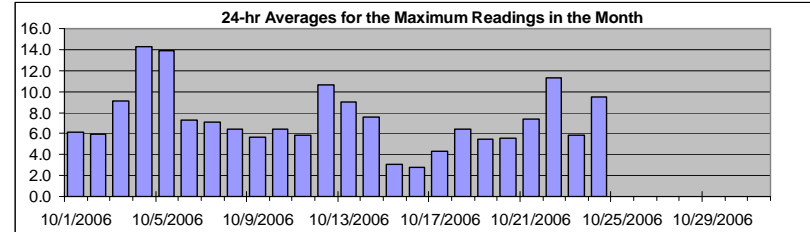
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	45.5	µg/m ³	4-Oct	16:00 17:00
Maximum 24-hr Value:	14.3	µg/m ³	4-Oct	



AIC Time:	0 hrs	Operational Time:	582 hrs							
Calibration Time:	0 hrs	AMD Operational Uptime:	78.2%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	37.9	18.3	9.1	5.5	3.5	1.7	0.8	7.3	6 µg/m ³	6.8 µg/m ³

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Oct-06	1	3	2	3	2	3	12	12	9	4	2	29	19	2	3	5	4	4	6	5	4	4	5	5	6.1	28.8	
2-Oct-06	4	5	4	4	5	5	6	15	13	7	5	2	5	1	1	7	3	6	5	3	8	12	9	8	5.9	14.6	
3-Oct-06	7	27	9	5	7	4	7	10	14	10	7	3	3	3	8	4	14	11	5	14	11	10	11	15	9.1	27.0	
4-Oct-06	13	9	5	5	4	5	6	8	15	13	3	0	6	1	7	38	46	43	43	28	9	7	14	14	14.3	45.5	
5-Oct-06	12	8	27	9	8	12	25	24	16	42	36	11	7	8	13	7	13	15	19	7	7	4	3	1	13.9	42.5	
6-Oct-06	1	2	4	3	3	3	8	10	11	11	8	12	6	5	2	3	3	8	34	17	7	5	5	3	7.3	34.1	
7-Oct-06	4	3	3	3	2	4	5	20	17	7	9	4	3	4	15	2	4	4	11	11	8	8	9	10	7.1	20.1	
8-Oct-06	10	9	10	6	6	5	13	13	11	8	5	5	3	3	3	2	2	5	4	5	6	6	8	6	6.5	13.3	
9-Oct-06	4	4	4	3	3	2	4	4	9	8	5	5	5	7	10	13	5	7	9	6	4	6	4	3	5.6	13.3	
10-Oct-06	3	4	3	5	3	9	7	39	8	8	8	5	4	5	6	6	5	5	5	4	4	3	3	1	6.4	38.8	
11-Oct-06	2	3	2	1	4	4	2	2	4	6	7	8	9	1	2	3	4	6	9	9	13	13	13	12	5.8	13.3	
12-Oct-06	13	12	10	10	12	9	14	12	14	28	18	14	14	12	10	9	6	5	5	5	5	5	6	7	10.6	27.6	
13-Oct-06	7	7	6	7	6	6	16	18	39	9	7	6	6	4	4	9	5	6	7	7	6	8	10	11	9.0	38.7	
14-Oct-06	12	10	10	9	9	7	7	6	10	7	6	7	8	8	7	7	7	9	6	7	6	6	6	4	7.6	12.0	
15-Oct-06	5	4	4	3	4	3	4	6	1	0	1	2	3	2	2	3	2	3	4	4	3	3	2	3	3.0	5.9	
16-Oct-06	3	2	3	1	3	3	2	3	3	3	2	2	4	2	3	3	3	2	3	3	4	2	4	4	2.7	4.5	
17-Oct-06	1	4	4	D	3	1	3	3	7	4	1	3	2	3	4	8	9	11	7	6	5	4	2	4	4.3	11.3	
18-Oct-06	3	3	5	5	11	9	6	5	8	13	18	10	4	1	3	5	7	5	6	5	5	5	5	5	6.4	18.3	
19-Oct-06	4	4	4	3	5	5	4	4	10	9	8	9	13	5	6	10	2	4	8	2	3	3	1	3	5.4	13.3	
20-Oct-06	3	3	3	2	6	4	4	9	12	10	7	2	3	2	3	1	6	6	7	10	11	5	6	8	5.6	11.7	
21-Oct-06	8	6	5	7	6	7	9	10	18	16	6	5	12	9	5	3	4	2	9	10	7	5	5	3	7.4	17.7	
22-Oct-06	4	5	4	4	4	6	7	10	13	12	15	8	9	10	19	26	22	31	21	19	6	6	5	4	11.3	30.6	
23-Oct-06	4	3	4	4	4	9	6	8	9	12	8	3	11	10	3	3	16	6	7	2	1	2	3	2	5.9	16.4	
24-Oct-06	1	1	6	6	7	10	10	18	13	26	21	7	18	3	10	26	6	5	5	14	4	3	4	3	9.5	26.2	
25-Oct-06	2	3	4	4	3	4	2	P	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	4.5	
26-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
27-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
28-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
29-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
30-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
31-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
Hourly Avg	5.3	5.7	5.9	4.7	5.2	5.6	7.6	11.2	11.8	11.4	8.9	6.8	7.5	4.7	6.1	8.5	8.3	8.6	10.2	8.5	6.1	5.7	5.9	5.8			
Hourly Max	13.1	27.0	26.8	9.9	11.8	11.9	24.8	38.8	38.7	42.5	35.7	28.8	18.6	12.2	18.8	37.8	45.5	42.6	43.1	28.3	13.2	13.3	13.8	14.9			

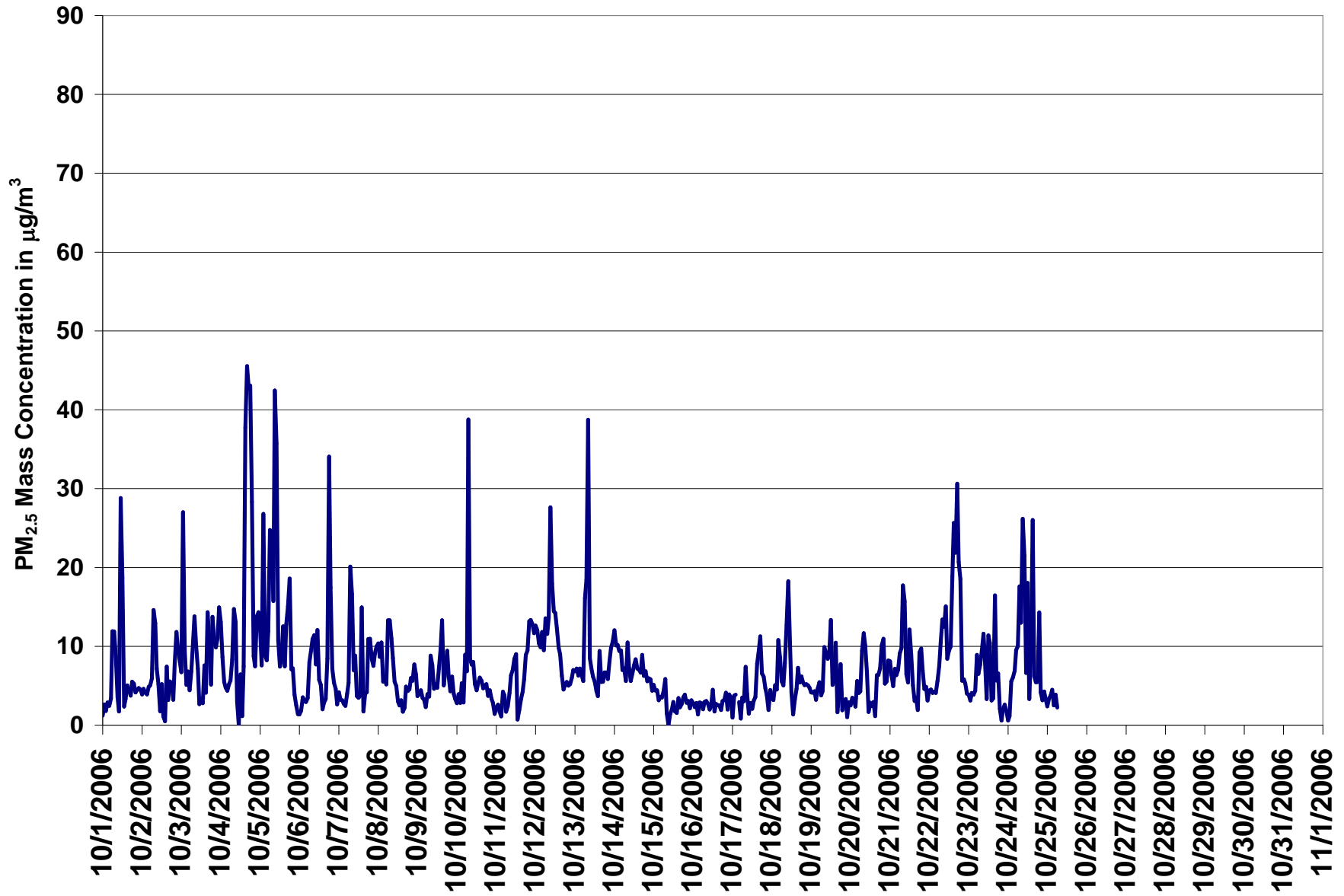
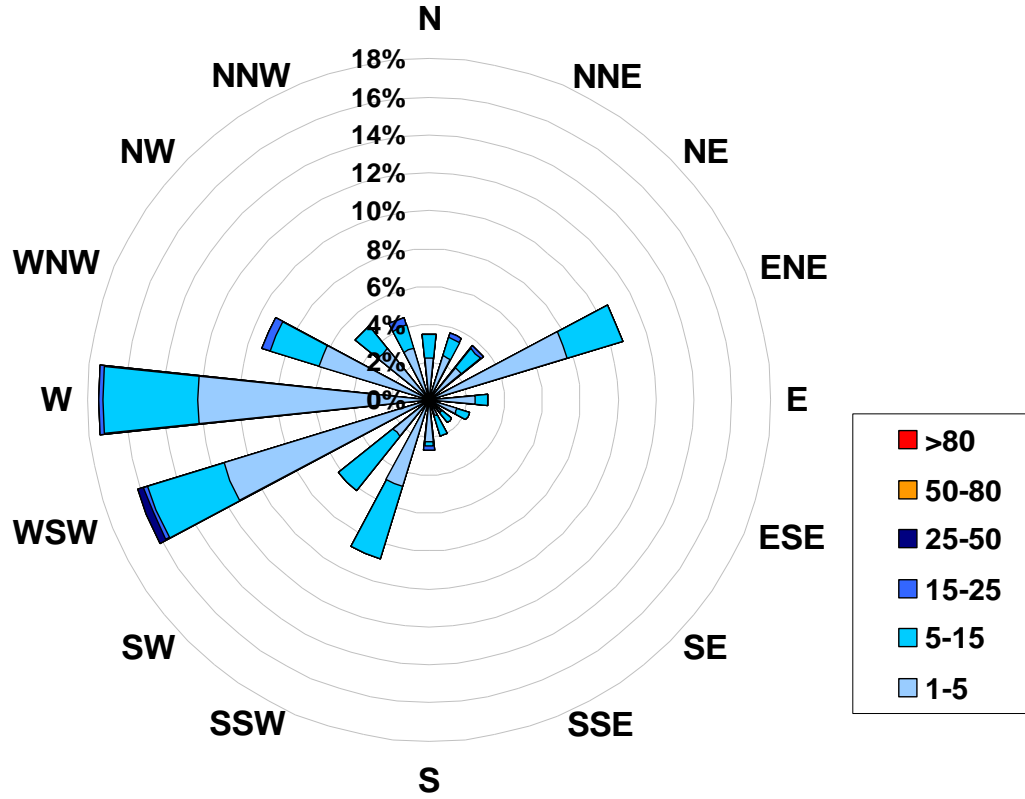


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 October 2006



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	423
5	to	15	148
15	to	25	9
25	to	50	2
50	to	80	0
	>	80	0
Total Non-Zero Values			582

PASZA - Evergreen Park - Temperature Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

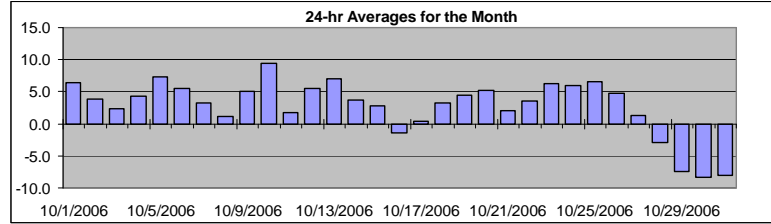
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	18.3 °C	4-Oct	15:00 16:00
Maximum 24-hr Value:	9.4 °C	10-Oct	



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
	15.7	12.1	7.1	2.9	-1.6	-7.7	-12.0	2.7 °C	2.9 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00		
1-Oct-06	7	7	6	5	4	4	4	2	4	6	8	9	10	11	11	10	9	9	7	5	5	5	4	2		6.5	10.8	
2-Oct-06	1	1	1	0	-1	0	-2	-2	0	3	6	8	10	11	12	13	13	12	7	2	1	0	-2	-2		3.9	12.9	
3-Oct-06	-3	-3	-3	-3	-3	-4	-5	-5	-2	1	4	7	10	11	12	13	14	13	6	2	0	-2	-3	-3		2.3	13.8	
4-Oct-06	-3	-4	-4	-5	-6	-7	-7	-7	-3	2	5	9	12	15	17	18	18	17	14	11	6	3	3	2		4.3	18.3	
5-Oct-06	2	2	2	1	1	2	3	3	4	8	12	14	13	12	12	12	12	11	10	10	10	8	7	6		7.4	14.1	
6-Oct-06	6	5	2	1	1	0	0	1	2	5	7	10	11	11	12	11	11	10	7	5	5	4	3	3		5.5	11.5	
7-Oct-06	3	2	2	1	0	-1	-2	-2	1	3	5	7	9	10	11	11	11	10	5	1	-1	-2	-2	-3		3.3	11.0	
8-Oct-06	-4	-4	-4	-3	-4	-6	-5	-6	-3	1	4	6	9	10	11	11	12	10	4	0	-2	-3	-3	-4		1.2	11.6	
9-Oct-06	-4	-5	-6	-7	-7	-8	-8	-9	-6	0	5	10	13	16	17	16	16	15	13	13	12	12	12	11		5.1	16.6	
10-Oct-06	11	11	10	10	10	10	9	9	10	12	13	13	15	16	15	13	12	9	6	5	4	2	2	1		9.4	15.7	
11-Oct-06	0	-1	-2	-2	-2	-1	-1	-1	-1	-1	0	1	3	7	9	9	9	9	6	3	1	0	-1	-2		1.7	9.4	
12-Oct-06	-1	-1	-1	-2	-1	-1	0	0	1	5	9	11	12	13	13	13	13	12	11	9	8	7	6	6		5.6	12.8	
13-Oct-06	5	5	5	5	5	4	2	0	2	6	8	10	12	13	13	14	12	10	8	7	7	6	4	3		7.0	13.5	
14-Oct-06	3	1	0	0	1	1	2	2	2	3	4	5	5	6	6	6	6	5	5	5	5	5	5	5		3.7	6.2	
15-Oct-06	5	5	5	5	5	4	4	5	4	3	2	2	3	3	3	3	2	2	1	1	1	1	0	0		2.8	4.8	
16-Oct-06	0	0	-1	-1	-1	-2	-2	-2	-2	-2	-2	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	-2		-1.4	0.1	
17-Oct-06	-2	-2	-2	-4	-5	-6	-6	-7	-6	-3	-1	1	3	4	5	6	6	6	5	3	2	4	5	4		0.3	6.2	
18-Oct-06	0	-2	-2	-2	0	0	0	0	1	2	4	7	9	9	9	9	8	7	6	4	3	2	2	2		3.3	9.0	
19-Oct-06	2	2	1	1	1	1	1	1	1	2	3	5	6	8	10	9	10	9	6	6	6	5	5	5		4.4	9.8	
20-Oct-06	5	5	5	5	4	4	2	1	3	5	7	8	9	9	10	11	11	7	3	1	4	5	3	2		5.2	10.9	
21-Oct-06	1	-1	-2	-3	-3	-4	-4	-5	-4	1	3	6	8	9	10	11	11	8	3	2	2	1	0	-1		2.0	10.9	
22-Oct-06	-2	-2	-3	-3	-3	-3	-4	-3	-2	1	3	4	6	9	11	11	9	8	6	6	10	10	9	8		3.5	11.0	
23-Oct-06	7	7	6	2	0	3	4	3	1	7	9	11	12	12	11	11	10	8	5	8	3	2	3	5		6.3	11.8	
24-Oct-06	6	6	6	5	3	2	2	2	1	2	6	8	9	11	10	10	10	8	7	7	7	6	6	5		6.0	11.1	
25-Oct-06	5	5	5	5	5	5	4	3	3	4	6	8	9	8	8	9	9	9	8	8	7	7	7	7		6.5	9.5	
26-Oct-06	7	5	5	5	4	4	3	1	0	4	6	7	8	8	8	8	7	6	5	4	4	3	2	1		4.7	8.1	
27-Oct-06	-2	-3	-1	2	1	1	-2	0	2	3	4	5	5	5	5	5	2	0	0	0	0	0	0	0		1.2	5.1	
28-Oct-06	-1	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	-3	-3	-4	-4	-5	-5	-5	-6	-6	-6		-2.9	-0.5	
29-Oct-06	-7	-7	-8	-8	-8	-9	-9	-9	-9	-8	-7	-7	-6	-6	-5	-5	-6	-7	-8	-8	-8	-8	-8	-8		-7.4	-5.2	
30-Oct-06	-8	-9	-9	-10	-12	-13	-13	-15	-15	-12	-10	-7	-5	-5	-3	-3	-4	-6	-7	-7	-6	-7	-7	-7		-8.4	-3.1	
31-Oct-06	-8	-8	-9	-9	-9	-9	-9	-9	-8	-8	-7	-5	-4	-4	-3	-3	-4	-7	-11	-12	-12	-12	-12	-12		-8.1	-3.2	
Hourly Avg	1.0	0.5	0.1	-0.3	-0.8	-0.9	-1.3	-1.6	-0.6	1.7	3.7	5.5	6.8	7.7	8.2	8.2	7.7	6.5	4.2	3.0	2.4	1.8	1.3	0.9				
Hourly Max	11.0	11.0	10.5	10.4	9.9	9.5	9.4	8.9	9.6	11.8	12.8	14.1	14.6	15.8	17.4	18.3	17.5	16.8	13.9	12.8	12.4	11.8	11.5	11.4				

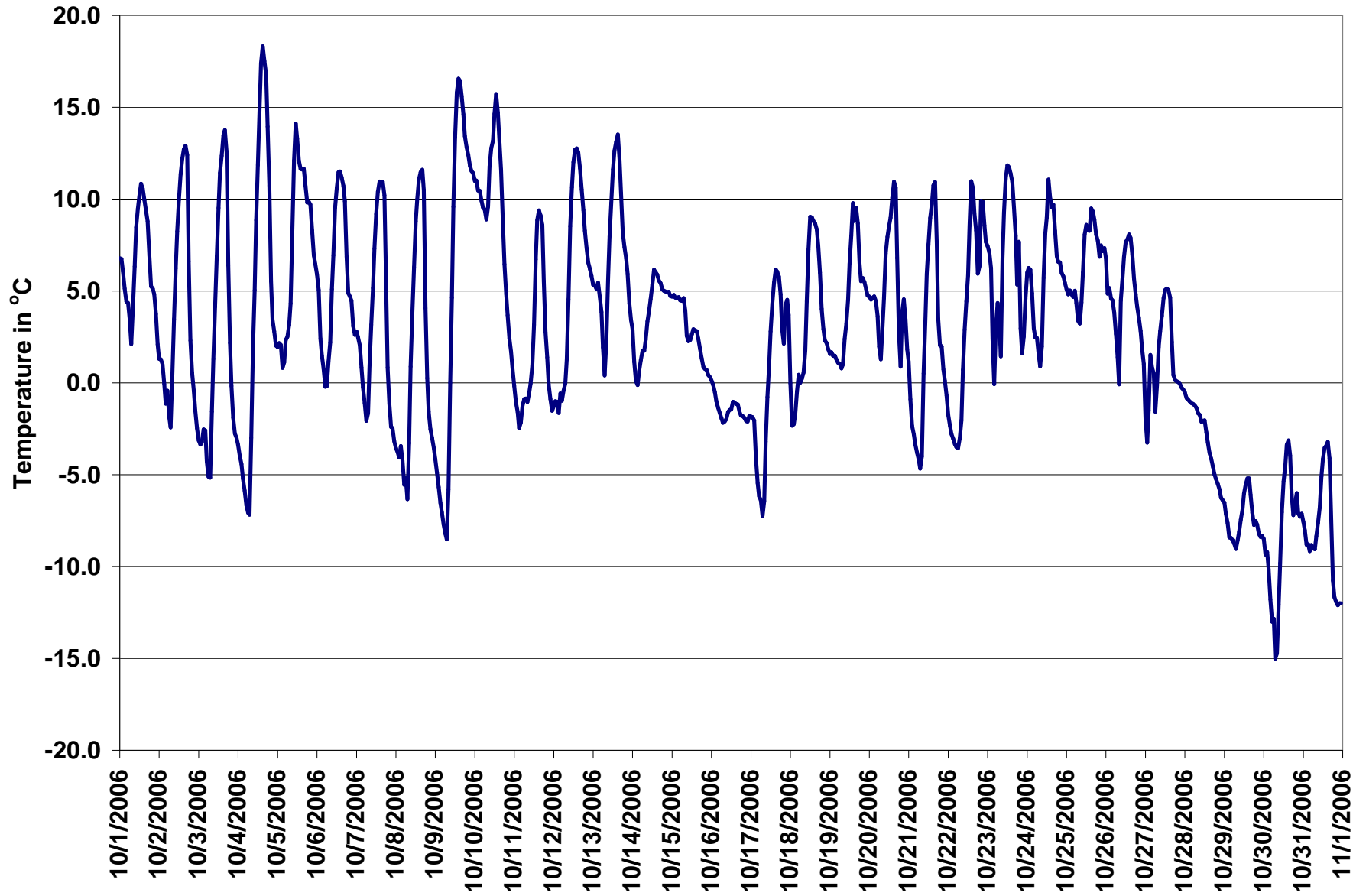


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

PASZA - Evergreen Park - Scalar Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

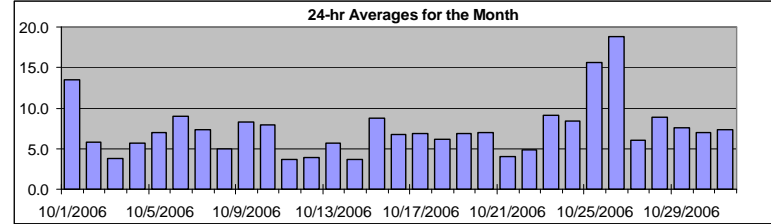
HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	32.7	km/hr	26-Oct	13:00 14:00
Maximum 24-hr Value:	18.8	km/hr	26-Oct	



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
	24.3	16.5	9.7	6.2	3.7	2.5	1.9	7.4 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
1-Oct-06	13	16	15	14	14	15	10	5	10	13	18	18	18	18	19	18	18	21	20	9	8	10	10	8	7	13.5	21.2
2-Oct-06	7	8	7	5	5	5	4	4	6	10	9	8	9	8	9	8	8	4	3	2	3	3	3	2	2	5.8	9.5
3-Oct-06	4	3	3	3	4	4	4	4	6	8	5	4	4	5	5	4	4	4	3	2	2	2	2	3	3	3.8	7.5
4-Oct-06	3	4	2	2	2	2	2	3	3	3	5	6	7	9	18	15	13	10	8	3	3	3	3	4	4	5.7	17.6
5-Oct-06	6	4	6	4	4	5	4	5	4	5	7	17	16	12	10	5	2	4	5	8	9	8	8	9	9	7.0	17.4
6-Oct-06	7	6	4	5	2	2	4	5	4	8	9	13	15	13	13	11	12	13	19	13	10	10	9	8	9.0	19.2	
7-Oct-06	7	5	6	6	5	5	4	6	10	13	14	12	13	13	12	10	8	6	3	3	3	3	3	4	7.3	13.6	
8-Oct-06	5	4	4	6	3	4	6	4	6	8	7	6	6	8	6	9	8	3	2	2	2	2	4	4	5.0	9.3	
9-Oct-06	2	2	2	2	3	2	2	3	2	4	6	10	12	18	19	20	14	11	10	12	11	8	11	13	8.3	20.5	
10-Oct-06	12	17	14	10	10	8	5	3	3	6	7	7	7	8	9	11	9	9	6	8	7	6	6	5	8.0	16.6	
11-Oct-06	4	3	2	2	2	3	3	4	4	3	4	5	5	5	6	6	5	4	3	3	3	3	3	2	3.7	6.2	
12-Oct-06	4	4	4	4	4	4	3	3	3	3	3	4	6	7	5	5	5	4	5	3	3	3	3	3	3.9	7.3	
13-Oct-06	4	3	4	4	3	3	2	2	3	4	5	7	7	9	9	10	8	9	8	9	7	5	5	6	5.7	10.3	
14-Oct-06	3	3	4	4	4	4	4	3	3	4	4	4	4	5	4	4	3	4	4	4	4	3	3	3	3.7	5.2	
15-Oct-06	3	3	3	3	4	4	4	7	14	13	12	11	11	11	12	13	13	13	10	10	9	8	8	10	8.7	13.7	
16-Oct-06	9	7	7	8	8	7	8	8	8	8	9	8	8	7	7	8	6	6	4	4	3	4	4	7	6.8	9.2	
17-Oct-06	8	9	7	4	4	5	5	3	3	6	6	7	8	7	6	9	7	8	7	6	6	13	15	8	6.9	14.8	
18-Oct-06	3	3	3	3	4	6	3	4	4	3	4	9	14	14	13	13	7	6	6	7	6	5	4	3	6.2	14.4	
19-Oct-06	3	4	3	3	3	3	2	3	3	3	3	3	4	5	4	12	12	11	15	12	12	12	16	15	6.9	16.3	
20-Oct-06	14	13	13	14	7	6	3	4	6	4	7	8	8	8	5	4	3	3	3	5	7	8	7	5	6.9	14.4	
21-Oct-06	6	4	3	3	3	3	3	3	3	4	4	4	4	5	6	6	6	6	5	4	3	3	3	3	4.0	6.5	
22-Oct-06	3	3	3	2	3	3	3	3	3	2	3	2	3	3	3	3	6	4	4	5	13	14	12	13	4.8	14.1	
23-Oct-06	14	16	10	6	6	11	12	8	3	8	13	17	15	16	12	10	7	4	5	9	3	4	5	6	9.1	16.7	
24-Oct-06	8	6	4	4	3	4	4	3	2	4	5	6	8	7	12	11	13	10	11	16	16	13	15	16	8.4	16.1	
25-Oct-06	15	16	17	19	19	22	19	16	15	10	13	19	22	22	18	15	13	14	11	11	9	16	12	13	15.7	22.2	
26-Oct-06	12	26	25	22	21	14	7	6	8	13	24	29	29	33	29	29	28	21	17	16	16	14	8	5	18.8	32.7	
27-Oct-06	4	3	7	7	5	4	3	6	9	10	11	12	8	8	6	6	13	6	3	3	2	3	4	4	6.1	12.5	
28-Oct-06	6	6	6	6	6	6	7	8	8	9	10	10	10	12	11	12	11	11	10	11	10	10	10	10	8.9	12.1	
29-Oct-06	10	7	4	4	4	5	5	5	7	9	9	10	9	11	8	11	9	8	6	7	7	7	10	10	7.6	11.0	
30-Oct-06	8	4	7	5	5	5	6	4	5	9	8	8	8	6	8	8	7	6	7	9	9	9	8	9	7.0	9.2	
31-Oct-06	10	12	10	9	10	8	8	8	9	7	8	10	10	10	11	9	7	3	3	3	3	2	3	2	7.3	11.8	
1-hr Average	6.9	7.3	6.8	6.2	5.8	5.9	5.1	4.9	5.7	6.8	8.2	9.4	9.9	10.4	9.9	10.4	9.4	8.0	7.0	7.1	6.9	7.0	6.8	6.8			
Hourly Max	15.0	26.1	24.8	21.8	20.6	21.9	18.9	16.1	14.9	13.4	23.6	29.5	29.1	32.7	28.8	28.7	27.8	20.5	19.2	16.1	16.1	16.4	16.3	16.1			

PASZA - Evergreen Park - Vector Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

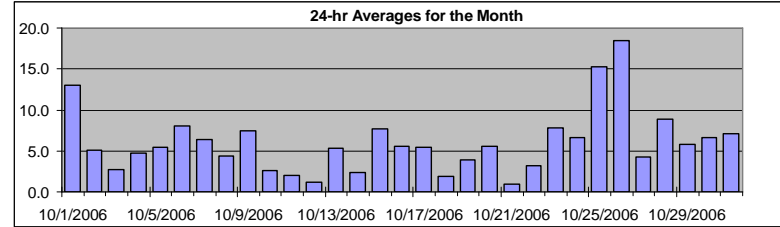
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	32.4	km/hr	26-Oct	13:00 14:00
Maximum 24-hr Value:	18.5	km/hr	26-Oct	



Calm Time:	18 hrs	2% calms	Operational Time:	726 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	24.4	16.4	9.5	6.0	3.0	1.4	0.9	16.3 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 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-Oct-06	13	16	15	14	14	15	10	3	9	13	18	18	17	18	18	15	21	20	8	7	10	10	7	6	13.0	20.9
2-Oct-06	7	8	7	5	4	5	3	4	5	9	9	7	7	7	8	7	8	3	1	calm	calm	2	1	1	5.1	9.4
3-Oct-06	4	3	3	3	4	4	4	4	5	7	4	1	2	4	1	calm	3	3	2	1	1	1	1	3	2.7	7.4
4-Oct-06	2	4	2	calm	1	2	2	3	3	1	5	5	6	6	8	17	15	13	9	8	calm	2	2	2	4.8	17.2
5-Oct-06	6	2	6	2	3	4	calm	4	3	4	7	17	16	11	10	5	2	4	5	8	9	8	7	9	5.4	16.8
6-Oct-06	7	5	4	4	1	2	3	4	4	8	9	12	14	12	13	11	12	12	19	13	10	10	9	8	8.1	19.0
7-Oct-06	7	5	6	6	5	4	3	6	10	13	13	12	12	11	12	9	7	6	2	2	2	1	2	1	6.4	13.3
8-Oct-06	5	1	4	6	2	4	6	3	5	8	7	5	5	8	5	8	8	3	calm	1	2	2	2	4	4.3	8.3
9-Oct-06	1	1	1	1	2	1	2	calm	1	2	6	10	11	17	18	20	14	11	10	11	11	8	11	13	7.4	19.9
10-Oct-06	12	16	14	10	10	8	5	2	3	5	5	6	6	7	9	11	8	9	6	7	7	6	6	5	2.6	16.5
11-Oct-06	4	2	2	2	1	2	3	3	3	2	2	4	4	4	5	6	5	3	2	2	3	2	2	1	2.1	6.0
12-Oct-06	2	3	3	3	2	2	calm	calm	1	calm	1	1	4	6	4	5	5	4	4	3	3	3	2	1	1.2	6.1
13-Oct-06	4	3	4	2	3	3	1	2	2	3	5	6	6	8	8	10	8	9	8	8	7	5	5	6	5.3	9.8
14-Oct-06	2	1	4	4	4	3	3	2	1	3	4	3	1	4	4	4	2	3	4	1	2	2	2	2	2.3	4.1
15-Oct-06	1	2	2	3	4	3	4	6	13	12	12	11	11	11	12	12	13	13	10	9	9	8	8	10	7.7	13.4
16-Oct-06	9	6	7	8	8	6	8	7	7	8	8	7	8	7	7	7	6	6	4	4	2	3	2	7	5.6	9.0
17-Oct-06	8	9	6	4	4	5	5	2	2	6	6	7	7	7	6	9	7	6	6	6	6	13	15	7	5.5	14.7
18-Oct-06	1	2	calm	calm	3	4	2	3	2	1	4	8	14	14	13	13	6	6	6	6	5	3	3	3	1.9	13.9
19-Oct-06	2	calm	3	calm	3	2	1	3	1	1	1	2	4	5	3	10	12	9	15	11	11	11	16	15	3.9	16.1
20-Oct-06	13	12	13	14	7	6	3	4	6	4	6	7	8	7	3	2	3	1	2	4	7	8	7	5	5.5	14.2
21-Oct-06	5	3	1	3	2	2	3	2	2	4	3	3	4	4	6	6	5	5	3	2	2	2	2	2	0.9	6.0
22-Oct-06	calm	1	2	1	2	1	1	2	2	1	3	2	2	1	2	calm	6	3	4	4	13	14	11	13	3.1	13.5
23-Oct-06	14	16	9	5	5	11	12	8	1	7	13	16	15	11	10	6	3	3	8	3	2	5	6	7.9	16.4	
24-Oct-06	7	6	4	3	2	3	2	1	calm	3	4	6	8	6	12	11	13	10	11	16	16	13	15	16	6.7	16.0
25-Oct-06	15	16	17	19	19	22	19	16	15	10	13	18	22	22	17	15	13	14	10	10	9	16	12	13	15.2	21.7
26-Oct-06	12	25	25	22	20	14	7	3	5	13	23	29	29	32	28	28	28	20	16	16	16	14	8	5	18.5	32.4
27-Oct-06	2	2	6	6	5	3	2	6	9	10	11	11	8	7	6	5	12	6	3	2	1	3	3	4	4.3	12.3
28-Oct-06	5	6	6	5	6	6	7	8	8	9	9	9	10	12	11	11	11	11	10	10	10	9	9	10	8.8	12.0
29-Oct-06	10	7	4	4	4	5	4	5	7	8	9	9	9	11	8	11	9	8	5	7	7	7	9	10	5.8	10.8
30-Oct-06	8	4	6	5	4	5	6	3	4	9	8	8	8	6	8	8	7	6	7	9	8	9	8	9	6.6	9.1
31-Oct-06	10	12	10	9	9	8	8	8	9	7	8	10	9	10	11	9	6	3	3	2	2	2	1	2	7.1	11.7
1-hr Vector	3.8	4.3	4.0	3.5	3.6	3.4	2.5	2.2	3.0	3.9	4.8	6.0	6.3	5.7	5.0	5.0	5.3	3.8	3.2	3.6	3.6	3.9	3.8	3.6		
Hourly Max	14.9	25.1	24.7	21.7	20.4	21.7	18.8	16.0	14.8	13.2	23.4	29.1	28.8	32.4	28.4	28.2	27.6	20.4	19.0	16.0	16.0	16.2	16.1	16.0		

PASZA - Evergreen Park - Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2006 to November 1, 2006

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
	345.8	327.8	276.1	248.3	135.0	28.2	7.6	272 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	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-Oct-06	237	249	257	257	253	256	260	11	255	263	272	278	277	263	284	266	265	299	248	253	258	286	276			265	W	
2-Oct-06	261	269	261	279	273	278	232	237	232	248	254	249	240	218	220	232	263	311	27	326	276	281	221	265		253	WSW	
3-Oct-06	209	215	270	258	248	205	204	207	250	237	204	243	259	218	324	240	257	32	21	344	282	285	251	288		246	WSW	
4-Oct-06	237	207	209	211	197	205	206	200	217	226	205	206	214	207	237	246	251	255	266	238	39	9	276	192		235	SW	
5-Oct-06	194	196	200	226	229	194	160	203	212	238	288	289	302	297	282	298	272	193	207	251	272	265	248	250		257	WSW	
6-Oct-06	264	287	310	234	338	289	302	291	217	249	267	274	270	289	333	329	323	302	263	263	261	272	278	268		282	WNW	
7-Oct-06	283	274	255	246	247	259	256	261	273	276	274	265	273	287	279	302	284	297	264	78	254	334	225	111		274	W	
8-Oct-06	212	117	224	225	208	214	226	202	231	244	250	244	288	266	253	251	244	279	275	231	194	280	251	196		239	WSW	
9-Oct-06	16	169	354	329	200	252	342	130	308	216	270	254	264	283	279	274	275	271	277	265	265	267	252	254		269	W	
10-Oct-06	256	258	264	290	285	285	300	329	1	331	32	59	60	63	66	72	68	71	60	63	62	61	66	61		13	NNE	
11-Oct-06	60	27	304	324	328	51	66	98	138	71	126	34	47	73	51	53	49	25	305	312	276	317	273	293		38	NE	
12-Oct-06	244	243	262	299	319	63	11	281	153	36	89	310	269	4	42	69	76	94	108	105	78	62	59	92		39	NE	
13-Oct-06	40	49	62	58	45	29	288	341	34	60	57	67	94	93	77	67	65	61	62	64	73	67	64	65		64	ENE	
14-Oct-06	35	20	69	58	60	76	89	92	248	107	81	61	26	106	124	78	29	252	107	314	32	347	92	69		67	ENE	
15-Oct-06	233	186	131	193	262	302	250	302	323	313	303	308	305	307	311	321	316	320	303	301	306	323	325	331		308	NW	
16-Oct-06	341	2	8	11	17	9	17	10	7	5	25	28	31	33	31	25	18	45	27	360	0	117	175	247		15	NNE	
17-Oct-06	235	235	239	183	205	192	198	210	188	197	194	202	206	207	203	216	214	267	290	278	312	282	278	277		236	SW	
18-Oct-06	186	202	32	68	257	208	167	172	148	98	242	290	298	312	327	333	334	352	55	74	98	89	85	76		331	NNW	
19-Oct-06	65	174	56	316	43	41	81	70	14	16	146	115	160	174	128	332	286	310	336	303	294	328	324	332		328	NNW	
20-Oct-06	329	329	331	341	312	257	247	251	254	278	283	309	307	308	351	59	337	8	250	217	262	274	277	299		304	NW	
21-Oct-06	270	315	296	220	290	314	213	215	213	202	200	179	141	148	109	136	116	102	60	42	28	360	307	257		170	S	
22-Oct-06	262	165	15	329	8	242	313	285	11	324	225	263	1	26	161	75	336	296	265	246	267	274	270	246		278	W	
23-Oct-06	250	245	249	189	211	248	250	235	290	259	254	248	249	245	232	232	230	67	198	213	161	131	174	179		236	SW	
24-Oct-06	175	167	164	191	323	319	329	195	0	189	178	193	204	238	278	258	252	241	241	256	259	254	256	256		243	WSW	
25-Oct-06	250	253	257	257	255	259	253	252	249	239	227	246	246	227	225	217	223	226	238	221	212	235	249	257		242	WSW	
26-Oct-06	278	259	248	240	241	249	260	279	238	269	258	266	264	265	267	268	257	256	256	253	248	247	251	264		258	WSW	
27-Oct-06	244	257	286	286	273	292	74	249	242	247	245	263	277	289	283	299	233	221	224	189	119	78	65	65		260	W	
28-Oct-06	60	65	69	67	66	72	70	66	61	65	64	65	64	58	54	58	55	53	51	48	46	41	41	44		57	ENE	
29-Oct-06	47	48	9	355	332	332	307	305	313	309	308	309	282	269	283	274	273	269	266	271	264	269	256	259		293	WNW	
30-Oct-06	277	321	285	275	299	328	302	333	274	262	258	269	278	279	283	279	266	266	250	260	283	273	284	273		278	W	
31-Oct-06	272	264	272	274	270	266	291	275	262	251	258	264	272	277	270	269	268	277	300	271	224	258	355	224		270	W	
Hourly Avg	265	258	271	269	271	266	266	263	265	265	260	270	272	273	280	285	275	285	283	268	274	282	277	271				

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

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

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Determined by the Yamartino 15-min interval calculation

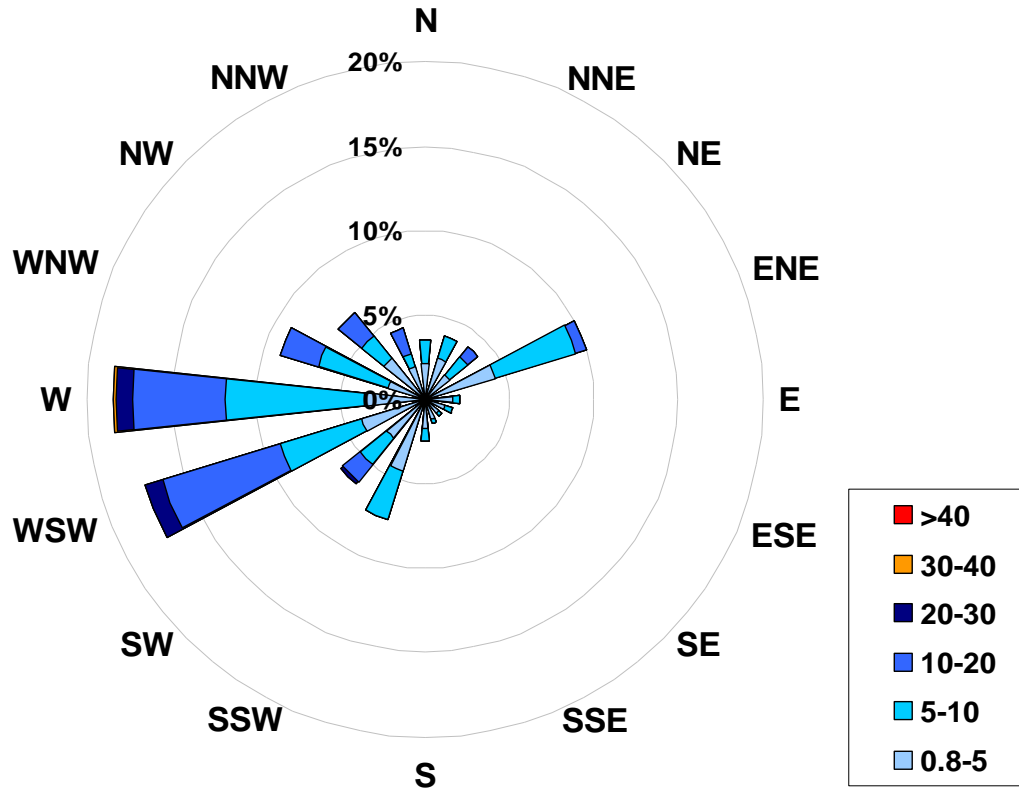
Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	67.2	52.3	30.2	15.8	10.1	5.8	4.6

Status Flag Characters

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

Day	Mountain Standard Time																								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-Oct-06	5	5	5	5	20	5	7	35	10	10	10	13	16	14	10	19	18	8	15	11	6	6	12	15	35.5
2-Oct-06	7	8	8	14	18	12	18	10	11	9	14	23	36	39	43	25	29	23	33	31	52	33	52	33	52.1
3-Oct-06	7	14	17	18	13	9	5	10	14	10	35	63	54	48	51	46	56	25	14	34	36	22	19	11	62.7
4-Oct-06	24	41	35	43	38	33	27	23	16	57	17	25	33	35	25	9	6	6	10	7	65	51	45	30	65.3
5-Oct-06	8	45	7	56	24	35	39	34	28	22	20	15	14	14	22	44	47	28	15	11	8	12	5	55.6	
6-Oct-06	8	17	19	17	39	26	20	12	16	8	10	13	20	19	15	11	13	14	8	7	7	11	12	13	38.6
7-Oct-06	13	15	20	14	14	17	19	9	8	9	12	15	16	21	18	21	22	13	22	45	33	12	23	59	59.5
8-Oct-06	16	30	22	6	55	20	8	40	13	9	14	27	39	23	46	23	19	39	47	14	13	29	47	16	55.0
9-Oct-06	36	44	33	44	28	27	34	46	36	39	18	11	14	12	14	11	13	9	9	6	7	7	5	5	46.4
10-Oct-06	6	5	7	15	11	13	17	34	25	21	27	19	30	20	14	16	16	12	13	10	10	9	11	13	34.4
11-Oct-06	11	34	12	28	29	25	38	37	30	55	50	30	36	42	30	14	16	21	31	35	22	26	42	37	55.3
12-Oct-06	37	46	23	40	36	50	50	51	64	75	67	49	37	29	34	26	16	15	31	27	18	19	54	44	75.1
13-Oct-06	13	26	15	26	11	14	51	29	29	32	19	26	29	17	21	18	13	10	10	11	11	15	7	8	51.2
14-Oct-06	30	36	12	13	21	36	37	60	51	36	30	48	77	45	28	25	39	22	27	47	37	27	35	42	77.3
15-Oct-06	28	44	41	31	17	15	10	13	10	12	13	14	12	15	13	13	13	10	11	12	11	10	9	8	43.9
16-Oct-06	10	18	19	16	14	21	15	17	19	17	16	15	14	15	15	17	19	13	23	26	54	34	39	17	54.0
17-Oct-06	13	12	15	11	8	11	10	57	32	8	11	13	16	13	11	6	48	35	12	8	13	9	6	16	57.3
18-Oct-06	51	43	67	52	36	18	32	53	49	45	20	17	13	12	10	11	18	12	15	19	15	49	56	20	66.9
19-Oct-06	37	73	22	46	19	32	78	26	62	68	64	60	41	20	32	41	10	23	16	10	11	9	9	7	78.4
20-Oct-06	11	9	10	10	12	7	13	10	6	14	15	17	17	24	59	70	22	43	52	18	9	12	10	19	70.4
21-Oct-06	15	26	52	24	27	16	23	19	35	10	43	50	36	51	28	22	20	8	23	40	39	26	29	31	51.9
22-Oct-06	27	63	23	43	43	46	59	55	35	39	34	30	50	44	51	65	7	14	25	9	8	11	17	9	65.2
23-Oct-06	5	5	8	20	22	5	4	7	44	19	10	9	11	10	7	7	37	45	61	12	45	45	12	8	60.6
24-Oct-06	10	15	30	45	41	44	35	65	74	57	24	16	8	22	13	9	7	6	7	6	5	6	6	4	74.5
25-Oct-06	5	5	5	4	6	6	6	5	5	11	13	11	11	9	9	9	6	5	8	8	9	6	9	7	13.1
26-Oct-06	9	8	5	7	6	9	13	32	30	13	7	8	9	7	9	9	6	6	6	6	5	6	8	22	31.8
27-Oct-06	26	49	25	15	11	18	31	29	4	4	5	9	16	20	15	26	7	6	11	21	37	23	24	21	49.2
28-Oct-06	22	14	19	21	21	19	16	17	12	12	13	13	12	10	9	11	11	10	11	10	10	11	10	10	22.1
29-Oct-06	9	10	14	10	10	12	10	12	10	13	16	15	14	9	17	8	7	6	14	19	17	23	16	9	23.1
30-Oct-06	19	30	24	18	21	8	20	20	13	6	6	8	13	15	14	9	9	12	8	6	10	9	12	9	29.9
31-Oct-06	8	5	8	8	6	7	9	10	9	10	6	10	13	13	9	7	9	12	27	32	37	25	63	43	63.3
Hourly Max	51	73	67	56	55	50	78	65	74	75	67	63	77	51	59	70	56	47	61	47	65	51	63	59	

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



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	298
5	to	10	270
10	to	20	159
20	to	30	16
30	to	40	1
	>	40	0
Total Non-Zero Values			744

PASZA – Smoky Heights Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Smoky Heights - Sulphur Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

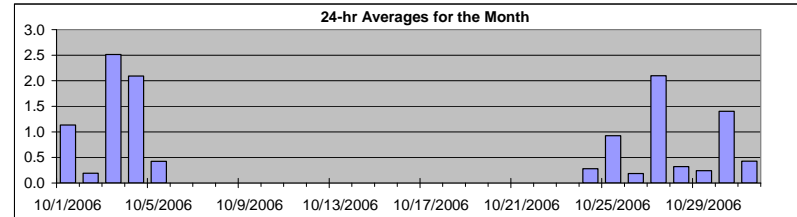
Station: Smoky Heights
 Station Owner: PASZA

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	7.9 ppb	3-Oct	5:00	6:00
Maximum 24-hr Average:	2.5 ppb	3-Oct		



AIC Time:	17 hrs	Operational Time:	306 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	44.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	6.4	4.4	1.0	0.4	0.1	0.0	0.0	0.9 ppb	0.4 ppb

Status Flag Characters

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

Day	Mountain Standard Time																									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-Oct-06	2	3	3	2	1	1	1	2	2	2	2	2	1	0	0	0	0	A	1	0	0	0	0	1	1.1	2.6	
2-Oct-06	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	A	0	0	0	0	0	0	0.2	1.2	
3-Oct-06	0	0	0	0	3	8	7	6	5	5	5	3	3	2	1	C	C	C	C	A	0	1	0	1	2.5	7.9	
4-Oct-06	1	0	1	1	0	A	1	1	1	1	1	1	1	5	5	3	3	3	3	3	7	3	3	1	2.1	7.1	
5-Oct-06	1	1	1	2	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.4	1.8	
6-Oct-06	0	2	3	A	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	2.7	
7-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
8-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
9-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
10-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
11-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
12-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
13-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
14-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
15-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
16-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
17-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
18-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
19-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
20-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
21-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
22-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
23-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	C	C	C	A	A	0	0	0	0	0	0	0	0	N	0.4
24-Oct-06	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2	2	0.3	2.4
25-Oct-06	2	2	2	2	A	4	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.9	4.0	
26-Oct-06	0	0	0	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.2	1.1	
27-Oct-06	3	5	A	6	1	5	2	2	1	1	2	4	4	1	2	2	1	1	1	1	0	0	1	1	2.1	6.4	
28-Oct-06	0	A	1	1	1	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0.3	0.7	
29-Oct-06	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0.2	0.9	
30-Oct-06	0	1	0	0	2	3	1	1	1	1	0	0	2	1	5	5	5	1	0	0	0	1	A	1	1.4	5.2	
31-Oct-06	1	0	0	0	1	1	1	1	1	0	0	1	0	0	0	1	0	0	0	0	0	0	A	0	0	0.4	1.4
Hourly Avg	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Hourly Max	2.8	5.0	2.7	6.4	3.3	7.9	6.6	5.8	5.1	5.4	4.6	4.5	4.2	4.9	5.1	5.2	4.8	3.1	3.0	2.8	7.1	3.1	2.8	1.5			

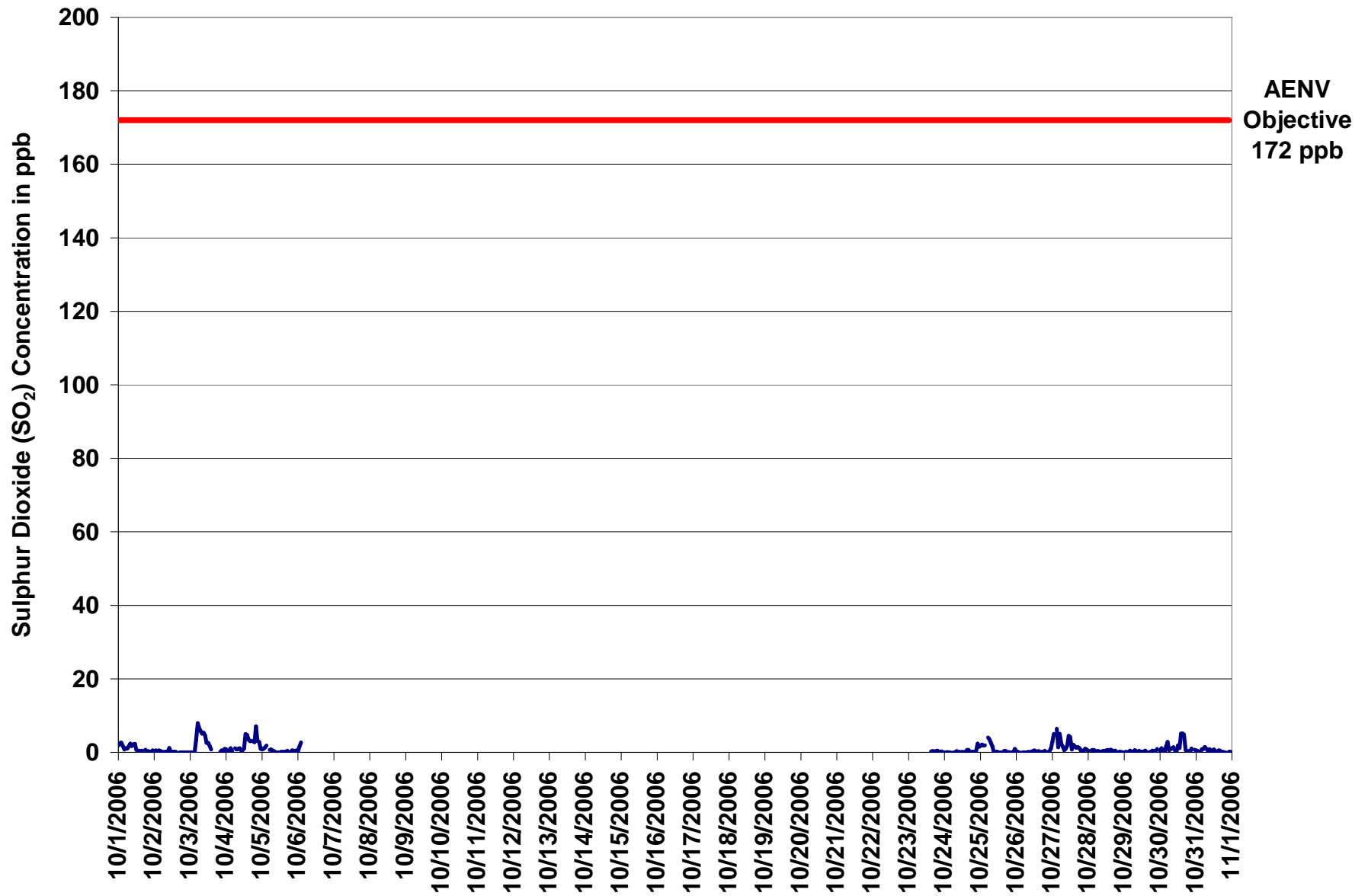


Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

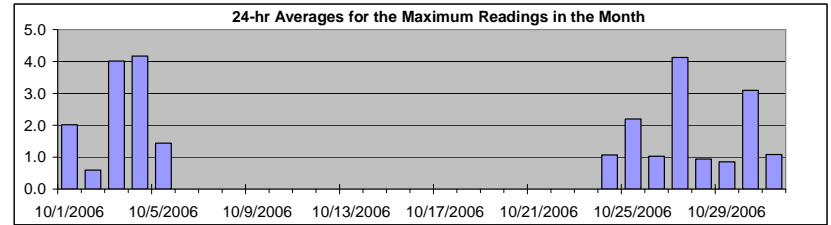
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	32.0	ppb	4-Oct	20:00 21:00
Maximum 24-hr Value:	4.2	ppb	4-Oct	



AIC Time:	17 hrs	Operational Time:	306 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	44.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	11.9	6.4	2.2	1.0	0.6	0.1	0.0	2.0 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	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	
1-Oct-06	3	3	6	3	1	2	1	2	4	2	4	4	1	1	1	1	1	A	1	0	1	1	1	1	2.0	5.6	
2-Oct-06	1	1	1	1	1	1	0	0	1	1	2	1	0	1	1	1	A	0	0	0	0	0	0	0	0.6	1.9	
3-Oct-06	0	1	0	0	14	10	8	8	7	6	5	4	4	3	2	C	C	C	C	A	1	1	0	2	4.0	14.3	
4-Oct-06	3	0	1	2	1	A	2	2	2	2	1	1	5	6	5	5	4	4	4	3	32	4	4	3	4.2	32.0	
5-Oct-06	2	2	3	3	A	2	2	1	1	1	0	0	0	1	1	1	1	1	0	1	3	3	1	1	1.4	3.5	
6-Oct-06	1	3	5	A	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	4.7	
7-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
8-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
9-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
10-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
11-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
12-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
13-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
14-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
15-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
16-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
17-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
18-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
19-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
20-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
21-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
22-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	
23-Oct-06	N	N	N	N	N	N	N	N	N	N	N	C	C	C	A	A	1	1	1	1	1	1	1	0	N	1.0	
24-Oct-06	0	0	1	0	0	A	0	1	1	0	1	0	1	1	1	4	4	0	1	1	0	0	5	4	1.1	5.3	
25-Oct-06	3	7	3	4	A	5	5	5	6	1	0	1	1	1	1	0	1	1	0	1	0	0	1	4	2.2	7.2	
26-Oct-06	1	1	0	A	1	1	0	0	1	1	1	1	2	1	1	1	0	1	1	4	0	0	1	5	1.0	4.9	
27-Oct-06	10	15	A	12	3	10	3	3	1	2	3	6	6	1	4	3	2	2	3	1	1	1	2	1	4.1	15.1	
28-Oct-06	1	A	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	1	0.9	1.5	
29-Oct-06	A	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	2	2	A	0.9	1.9	
30-Oct-06	1	2	1	0	6	8	1	2	2	2	1	1	3	3	10	7	11	1	1	1	0	3	A	3	3.1	10.9	
31-Oct-06	1	1	1	1	1	2	2	2	1	1	1	1	2	2	1	1	1	1	1	0	1	A	1	1	1.1	2.3	
Hourly Avg	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Hourly Max	10.1	15.1	5.6	12.0	14.3	10.0	8.3	8.0	6.8	6.3	5.4	6.5	6.0	5.6	9.9	6.9	10.9	3.7	3.8	3.9	32.0	4.3	5.3	4.9			

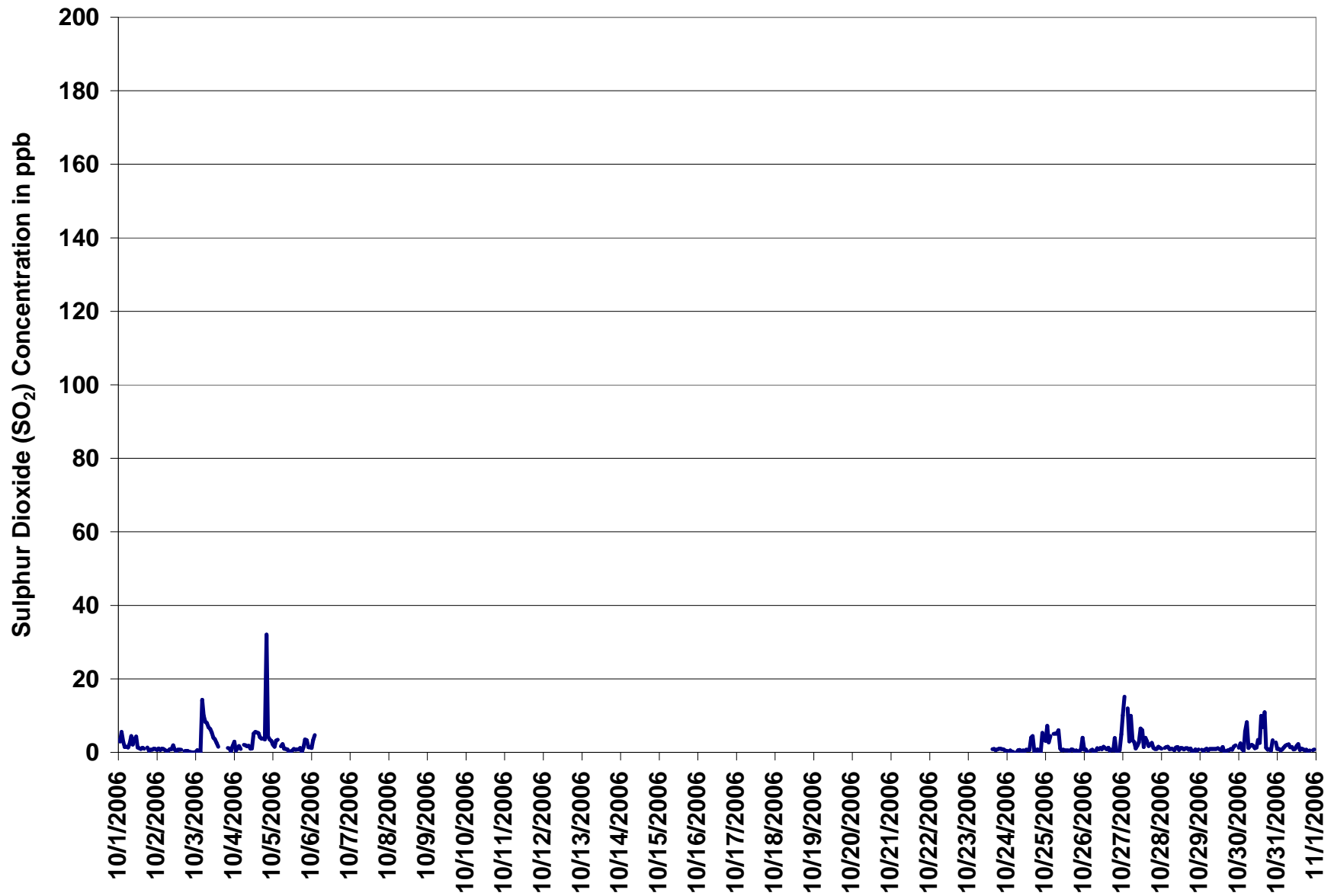
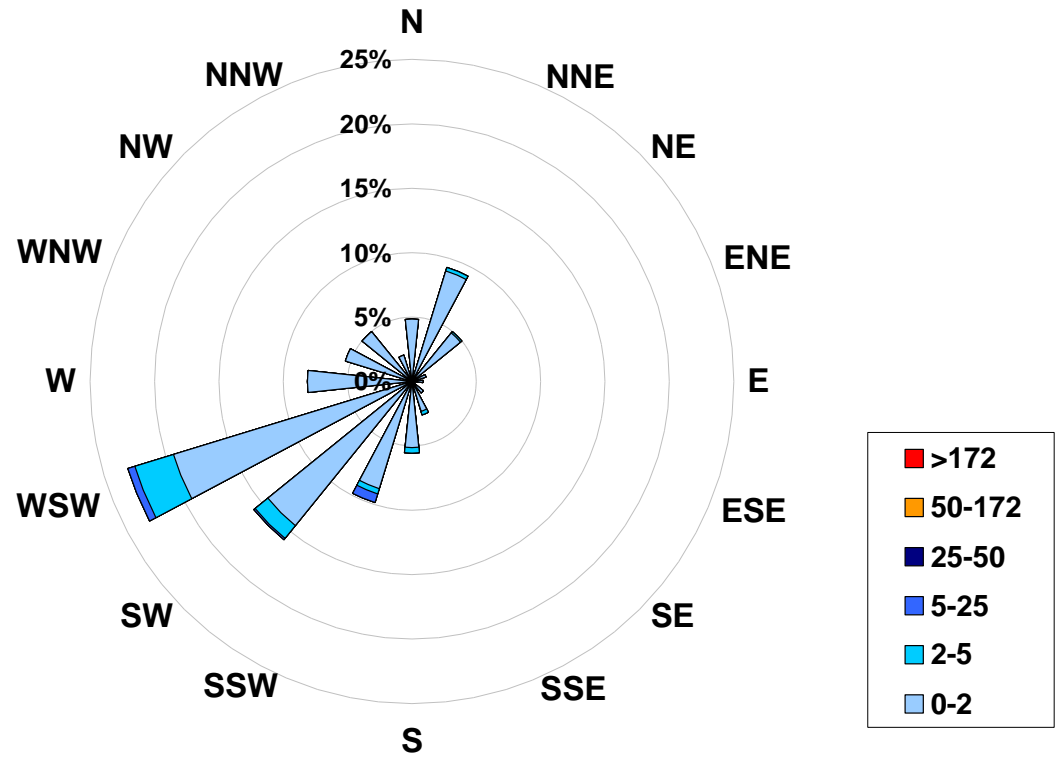


Figure 28. PASZA - Smoky Heights Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	< 2		264
2	to 5		32
5	to 25		10
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			306

PASZA - Smoky Heights - Total Reduced Sulphur Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

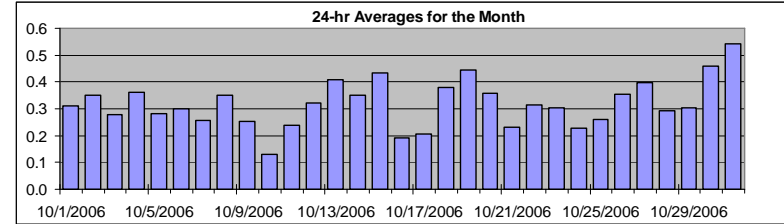
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Summary				
Maximum 1-hr Average:	1.1	ppb	13-Oct	18:00 19:00
Maximum 24-hr Value:	0.5	ppb	31-Oct	



AIC Time:	33 hrs	Operational Time:	706 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.6	0.5	0.4	0.3	0.2	0.1	0.1	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	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-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.3	0.4
2-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.4	0.4
3-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
4-Oct-06	0	0	1	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
5-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
6-Oct-06	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
7-Oct-06	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
8-Oct-06	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
9-Oct-06	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	A	0.3	0.6	
10-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.5	
11-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.3	
12-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	0.3	0.6	
13-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	A	0	0	1	0	0.4	1.1	
14-Oct-06	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.4	0.6
15-Oct-06	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.4	0.7
16-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.2	0.5
17-Oct-06	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	0.2	0.3
18-Oct-06	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	0.4	0.5
19-Oct-06	1	0	0	0	0	0	0	0	0	0	0	1	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
20-Oct-06	0	0	0	0	0	0	0	0	1	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
21-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
22-Oct-06	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	0.3	0.4
23-Oct-06	0	0	0	0	0	0	0	0	0	0	0	C	C	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0.3	0.4
24-Oct-06	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
25-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.3
26-Oct-06	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
27-Oct-06	1	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
28-Oct-06	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
29-Oct-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.4	
30-Oct-06	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	1	1	1	A	0	0	0.5	0.7
31-Oct-06	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0	1	0	0	1	0	0	1	A	1	1	0	0.5	0.7
Hourly Avg	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Hourly Max	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.8	1.1	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6

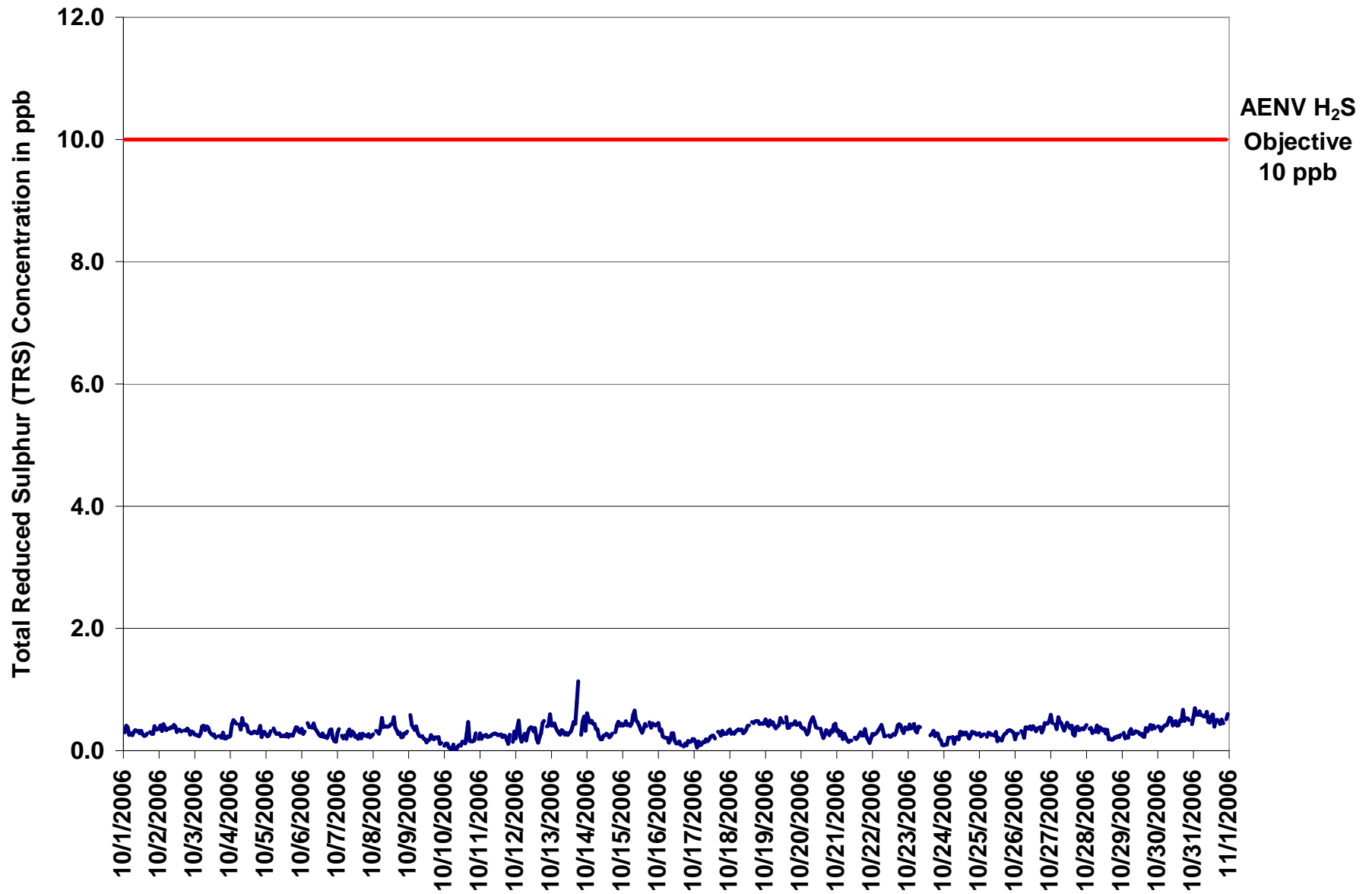


Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

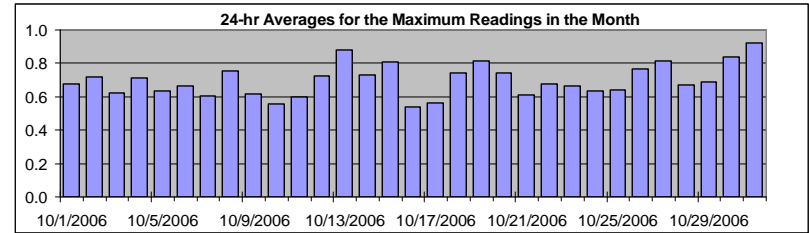
Total Reduced Sulphur (TRS)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	1.6	ppb	13-Oct	21:00 22:00
Maximum 24-hr Value:	0.9	ppb	31-Oct	

AIC Time:	33 hrs	Operational Time:	706 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.7 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 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-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	A	1	1	1	1	1	1	1	0.7	0.9
2-Oct-06	1	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	0.9
3-Oct-06	1	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	0.8
4-Oct-06	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
5-Oct-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
6-Oct-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
7-Oct-06	1	1	A	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	0.6	0.7
8-Oct-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
9-Oct-06	A	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	A	0.6	0.9
10-Oct-06	1	1	1	0	1	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1	A	1	0.6	1.0
11-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	A	1	1	1	0.6	0.8
12-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	A	1	1	1	1	0.7	1.3
13-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	2	2	1	1	0.9	1.6
14-Oct-06	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.7	1.0
15-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.8	1.0
16-Oct-06	1	1	1	1	1	1	1	0	1	1	0	0	0	1	0	A	0	0	0	1	0	1	0	1	0	0.5	0.9
17-Oct-06	1	0	0	0	1	1	0	1	0	0	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0.6	0.8
18-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0.7	1.0
19-Oct-06	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	1.1
20-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
21-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0	1	1	1	1	0.6	0.8
22-Oct-06	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
23-Oct-06	1	1	1	1	1	1	1	1	1	1	C	C	C	C	A	1	1	1	1	1	0	1	0	0	0	0.7	0.8
24-Oct-06	1	0	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0.6	0.8
25-Oct-06	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
26-Oct-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
27-Oct-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
28-Oct-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
29-Oct-06	A	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	0.9
30-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	1.3
31-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.9	1.1
Hourly Avg	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7		
Hourly Max	1.1	1.1	0.9	1.1	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.0	0.9	1.3	1.5	1.3	1.0	1.6	1.6	1.2			

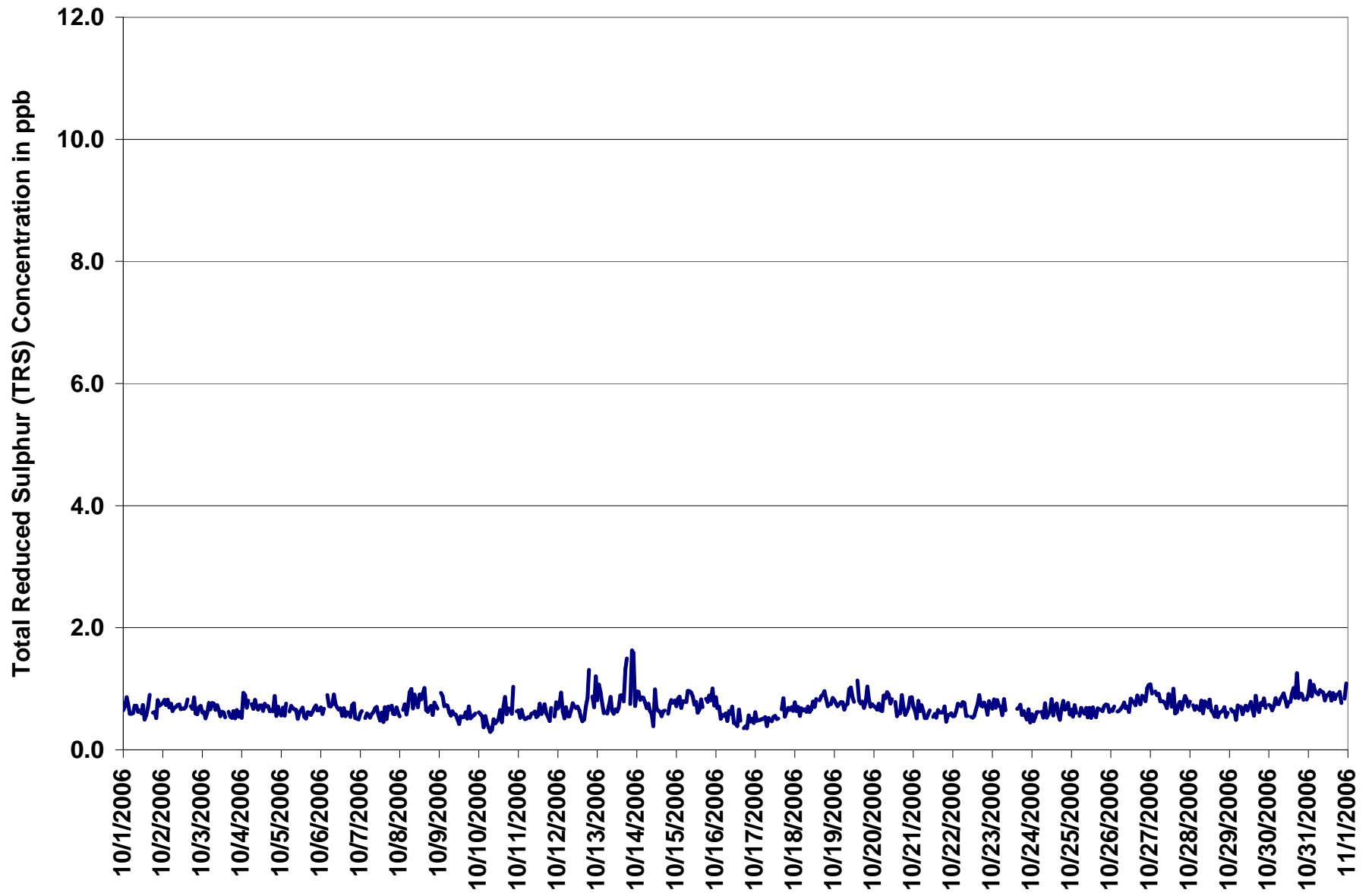
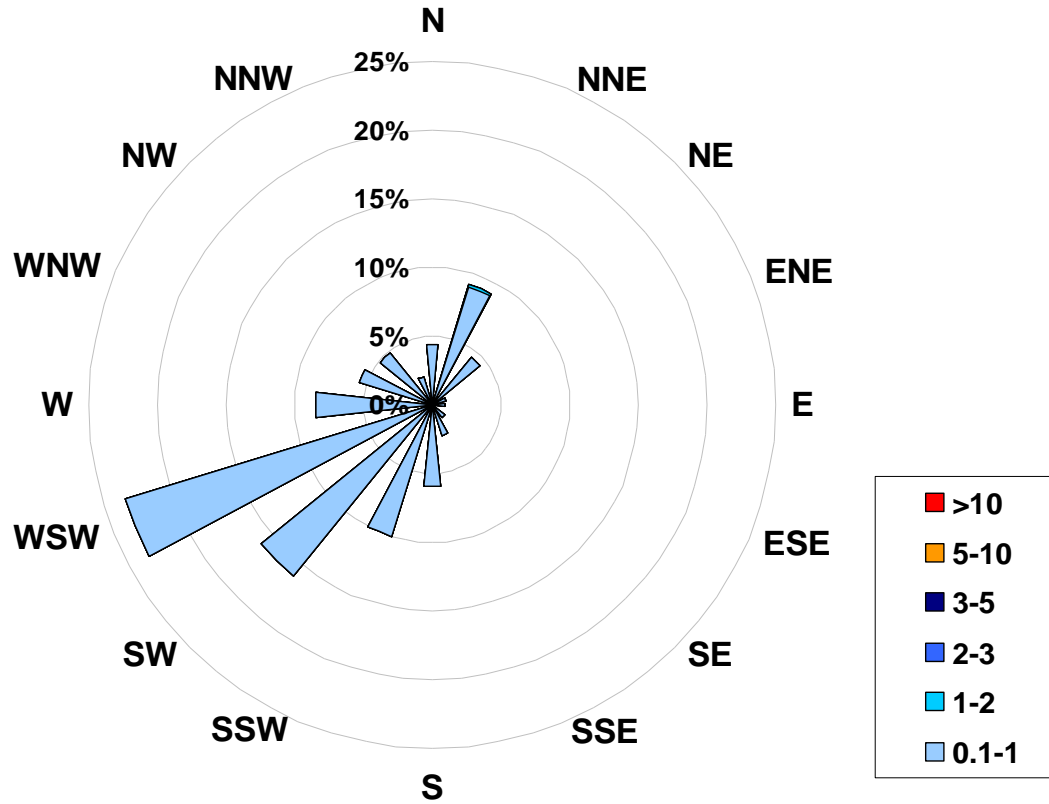


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms:	0%
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Frequency Distribution of TRS in ppb			
Range			Frequency (hrs)
0.1	<	1	705
1	to	2	1
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			706

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

Station: Smoky Heights
 Station Owner: PASZA

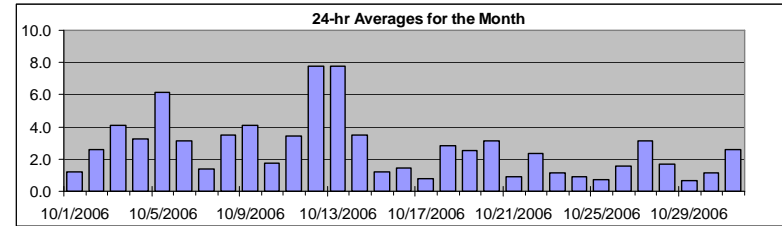
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	52.5 μg/m ³ 20-Oct 17:00 18:00
Maximum 24-hr Value:	7.8 μg/m ³ 13-Oct



AIC Time:	0 hrs	Operational Time:	739 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	99.9%
Percentile	99	95	75
	18.7	7.6	3.5
	50	25	5
	1.8	0.7	0.0
	1	0.0	0.0
	Average / Median		2.7
	2 μg/m ³		2.1 μg/m ³

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	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-Oct-06	0	1	1	1	2	1	2	2	2	1	1	1	0	0	0	2	2	1	1	2	1	2	2	2	1.2	2.5	
2-Oct-06	2	2	2	2	2	2	2	2	3	3	1	1	0	0	1	0	2	2	10	4	7	11	2	1	2.6	10.5	
3-Oct-06	1	1	1	1	1	3	2	4	6	4	3	4	3	2	1	0	2	14	12	7	13	2	6	3	4.1	14.5	
4-Oct-06	4	4	6	6	5	5	4	5	6	2	2	0	0	0	0	2	1	4	3	3	4	5	3	3	3.2	6.4	
5-Oct-06	3	4	4	7	9	6	7	10	13	6	9	8	8	13	7	3	5	4	5	5	6	4	2	1	6.1	13.4	
6-Oct-06	1	1	1	1	1	1	2	3	4	4	3	2	2	2	3	4	4	8	11	6	4	3	2	1	3.1	10.7	
7-Oct-06	1	1	0	0	0	1	1	2	3	3	2	1	0	1	0	0	2	8	1	1	0	2	0	1	1.4	8.3	
8-Oct-06	1	1	2	2	2	3	4	5	7	5	5	3	2	2	1	1	3	1	3	5	8	9	5	1	3.5	9.4	
9-Oct-06	2	4	4	3	5	2	3	2	4	2	0	1	1	1	2	2	3	4	4	10	5	29	3	2	4.1	28.5	
10-Oct-06	2	3	1	3	1	4	5	0	1	2	1	1	1	1	2	2	2	1	1	0	1	1	2	1	1.7	4.9	
11-Oct-06	0	0	0	0	0	0	0	0	0	0	1	1	3	4	5	4	3	3	5	26	4	5	8	4	6	3.4	26.3
12-Oct-06	5	5	6	6	6	7	6	6	5	4	4	5	5	5	5	4	4	9	24	19	15	6	4	21	7.8	23.7	
13-Oct-06	1	4	3	4	3	4	5	8	14	8	5	5	4	4	3	3	4	5	9	13	14	29	30	4	7.8	29.6	
14-Oct-06	4	5	4	4	4	3	2	2	3	7	2	6	4	4	3	2	3	4	5	2	4	3	3	2	3.5	7.0	
15-Oct-06	2	3	4	4	4	2	1	1	2	0	0	0	0	0	0	1	1	0	1	1	0	1	1	1	1.2	3.9	
16-Oct-06	2	1	1	0	0	1	1	1	1	1	1	2	3	3	2	3	3	3	4	0	0	0	0	0	1.4	3.8	
17-Oct-06	0	1	0	0	0	0	0	0	0	0	1	0	1	0	1	2	2	2	1	1	2	2	1	1	0.8	2.2	
18-Oct-06	1	0	2	1	4	5	2	2	3	2	3	4	0	1	2	4	5	4	3	4	3	3	5	5	2.8	5.4	
19-Oct-06	3	2	3	2	3	2	3	3	3	4	4	4	2	3	3	3	3	1	2	1	2	1	2	2	2.5	4.3	
20-Oct-06	2	2	2	1	1	1	0	0	3	2	1	0	0	0	0	0	1	53	D	0	0	0	2	0	3.1	52.5	
21-Oct-06	1	1	1	0	1	0	0	2	0	1	1	3	3	1	1	0	2	0	0	3	0	0	1	0	0.9	3.5	
22-Oct-06	0	1	0	1	1	1	2	2	3	2	1	2	2	2	1	3	4	6	8	3	2	4	3	3	2.3	7.6	
23-Oct-06	3	3	3	2	1	1	1	2	2	3	2	0	C	C	C	C	0	0	0	0	0	0	0	0	1.1	3.1	
24-Oct-06	0	0	0	1	1	1	1	1	1	2	3	3	2	0	0	1	0	0	0	1	1	0	1	1	0.9	2.9	
25-Oct-06	1	2	2	2	2	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	2.8	
26-Oct-06	0	1	1	1	0	0	0	0	2	2	0	1	1	0	1	2	2	2	2	4	5	3	2	3	1.5	5.0	
27-Oct-06	3	4	3	5	4	5	4	3	3	4	4	3	3	1	3	2	3	1	3	3	3	2	2	3	3.1	5.0	
28-Oct-06	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	7	18	9	1.7	17.6	
29-Oct-06	1	5	0	0	0	0	0	0	1	1	0	2	0	0	0	0	1	1	1	1	1	0	1	0	0.7	4.5	
30-Oct-06	2	1	1	0	0	0	0	0	1	2	2	1	1	1	2	2	1	1	1	2	2	1	2	1	1.2	2.1	
31-Oct-06	2	3	4	4	4	4	5	4	4	5	4	2	2	3	1	1	0	1	3	0	0	2	1	2	2.6	4.7	
Hourly Avg	1.7	2.1	2.0	2.1	2.2	2.3	2.1	2.4	3.3	2.6	2.2	2.2	1.9	1.9	1.6	1.8	2.2	4.8	4.8	3.5	3.7	4.9	3.3	2.3			
Hourly Max	4.8	5.2	6.1	6.9	8.7	6.6	6.6	9.6	14.3	8.2	9.3	8.0	7.9	12.6	6.5	4.3	5.1	52.5	26.3	19.4	15.2	29.5	29.6	21.0			

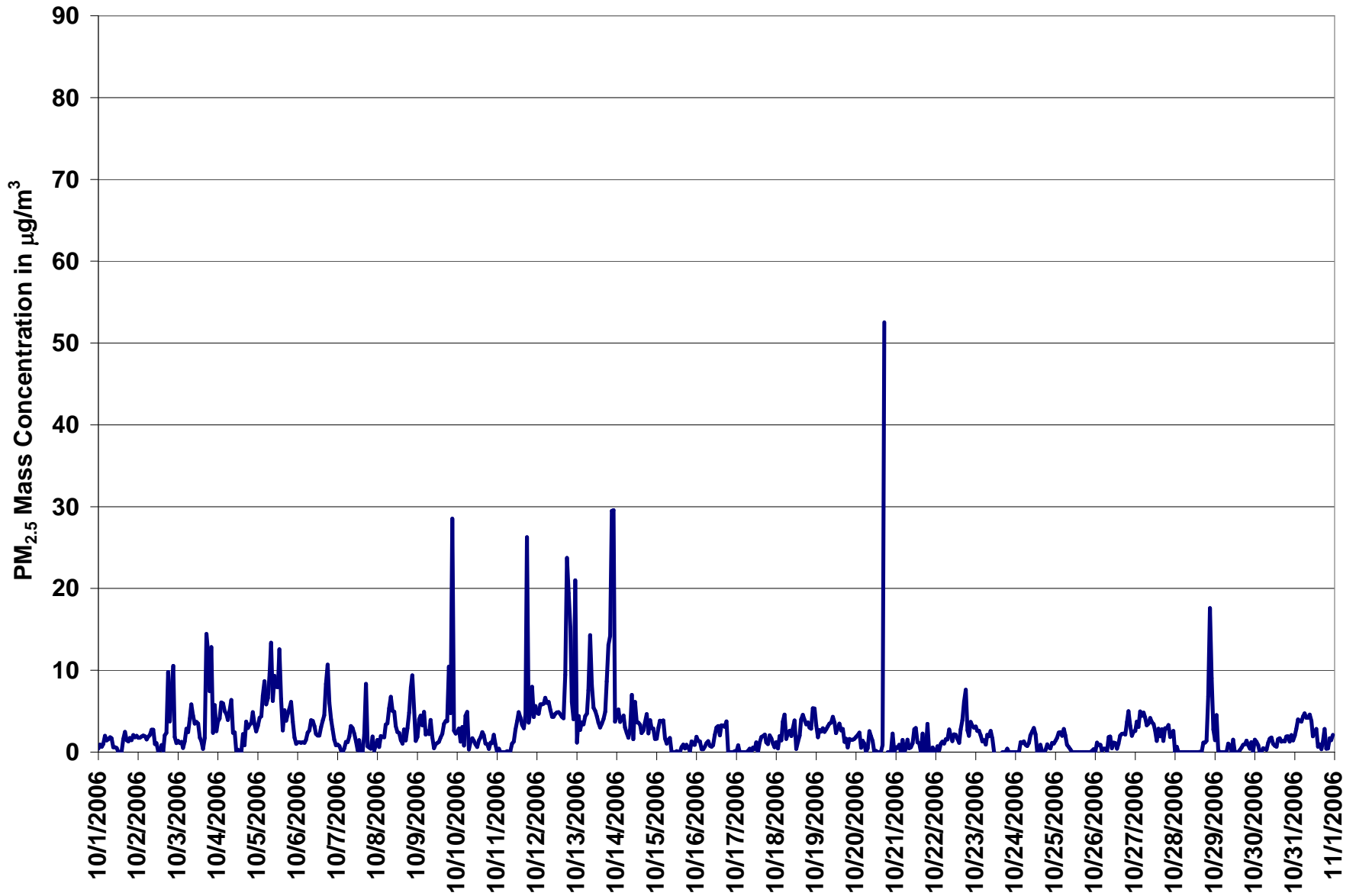


Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

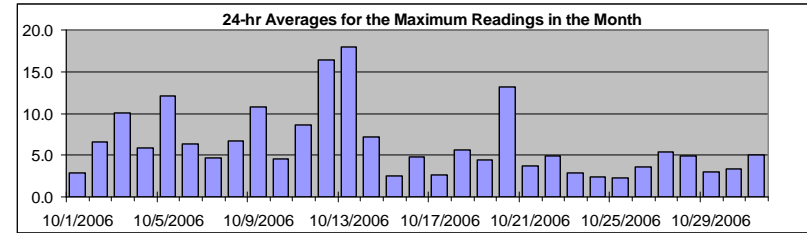
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	248.3	µg/m ³	20-Oct	17:00 18:00
Maximum 24-hr Value:	17.9	µg/m ³	13-Oct	



AIC Time:	0 hrs	Operational Time:	739 hrs							
Calibration Time:	4 hrs	AMD Operational Uptime:	99.9%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	49.3	17.2	6.2	4.0	2.6	1.2	0.0	6.3	4 µg/m ³	5.3 µg/m ³

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Oct-06	2	2	2	4	4	3	3	3	3	2	2	2	0	1	1	5	4	4	3	3	4	5	4	3	2.9	4.7
2-Oct-06	3	3	4	4	4	3	4	3	5	4	2	3	2	2	6	2	4	8	26	18	15	28	4	2	6.6	28.1
3-Oct-06	3	3	3	3	4	5	5	7	10	7	5	5	5	4	4	2	15	34	26	24	44	4	16	4	10.1	43.9
4-Oct-06	5	5	8	10	7	7	7	9	9	5	6	2	3	2	2	7	7	7	6	5	5	8	5	4	5.9	9.8
5-Oct-06	5	6	7	9	12	9	10	13	30	8	20	17	38	40	12	5	9	6	7	7	7	6	3	3	12.1	40.0
6-Oct-06	3	3	2	3	2	3	4	4	5	6	5	4	3	5	6	8	7	16	27	14	8	7	4	3	6.3	27.2
7-Oct-06	3	2	2	2	2	3	3	5	5	5	4	4	2	4	1	3	10	30	7	3	3	6	3	3	4.7	30.3
8-Oct-06	3	3	5	5	4	5	6	9	11	7	6	5	4	4	3	4	6	3	8	10	18	17	9	3	6.7	17.6
9-Oct-06	4	5	6	5	16	5	5	4	7	4	3	3	6	6	5	6	7	7	10	20	12	99	8	8	10.8	98.7
10-Oct-06	7	5	4	6	2	8	18	3	3	4	3	2	2	3	4	4	4	2	3	2	3	3	11	3	4.5	17.8
11-Oct-06	1	2	1	1	1	1	3	2	1	3	3	4	5	7	7	6	4	9	103	7	8	14	7	8	8.7	103.0
12-Oct-06	7	7	9	12	10	10	10	9	7	6	6	6	7	6	6	7	8	36	48	50	54	8	6	56	16.4	55.6
13-Oct-06	3	6	5	5	5	6	6	10	28	18	8	6	6	5	5	4	5	6	18	20	18	101	125	9	17.9	125.1
14-Oct-06	11	14	7	7	10	6	5	4	8	12	3	20	7	6	6	5	4	6	8	4	5	4	5	3	7.2	20.4
15-Oct-06	2	4	5	6	6	4	2	4	3	1	2	1	1	1	1	2	2	1	2	2	2	3	3	2	2.6	5.7
16-Oct-06	3	4	3	2	2	2	4	4	3	2	3	4	8	13	5	11	10	10	18	2	1	2	1	2	4.8	17.6
17-Oct-06	2	3	2	2	2	2	1	3	2	1	2	3	3	2	2	5	5	4	3	3	4	4	3	3	2.6	5.0
18-Oct-06	4	2	4	3	5	7	4	4	4	4	7	5	5	3	5	6	6	5	6	6	5	4	18	12	5.6	18.1
19-Oct-06	5	3	4	4	4	4	4	4	5	5	6	6	4	7	7	5	6	5	4	3	3	2	3	3	4.4	7.1
20-Oct-06	3	4	3	2	3	3	2	2	4	4	3	2	3	1	0	2	3	248	D	0	0	2	7	1	13.2	248.3
21-Oct-06	3	3	4	1	4	2	2	5	3	2	6	7	6	5	3	1	8	1	3	14	2	2	2	1	3.8	13.8
22-Oct-06	2	2	3	4	3	3	3	4	4	4	3	4	4	4	4	8	14	11	8	5	5	6	5	4.9	14.3	
23-Oct-06	4	4	5	5	3	3	2	4	4	4	4	2	C	C	C	C	0	0	0	10	2	0	0	0	2.8	10.4
24-Oct-06	0	1	1	3	2	3	2	3	2	4	5	5	4	3	1	3	2	1	2	2	2	2	2	2	2.4	4.8
25-Oct-06	4	3	3	4	4	5	4	2	2	1	1	1	1	0	1	0	1	2	2	1	2	2	3	2	2.2	4.7
26-Oct-06	1	3	4	4	2	1	2	3	4	3	2	5	4	2	3	4	4	3	3	7	9	5	4	4	3.6	8.7
27-Oct-06	4	6	5	7	7	7	6	6	5	6	6	5	5	4	5	4	13	4	5	5	6	4	4	4	5.4	12.8
28-Oct-06	2	3	1	1	1	1	2	1	1	2	2	0	1	2	2	2	2	4	3	3	21	38	12	10	4.9	37.6
29-Oct-06	8	9	5	1	2	2	1	2	4	3	1	6	1	2	1	3	3	3	3	3	3	2	3	2	3.0	8.7
30-Oct-06	5	3	3	2	2	2	3	2	4	4	5	4	3	2	4	4	4	3	4	4	3	3	4	4	3.3	4.5
31-Oct-06	4	5	6	6	6	7	7	8	8	8	7	5	4	5	3	2	2	4	5	3	3	5	5	4	5.1	8.4
Hourly Avg	3.7	4.2	4.0	4.2	4.5	4.2	4.6	4.7	6.3	4.8	4.5	4.7	5.0	5.1	3.9	4.2	5.6	15.7	12.5	8.5	8.9	12.7	9.4	5.7		
Hourly Max	10.9	14.3	9.3	12.5	15.6	10.3	17.8	13.4	29.8	17.9	19.8	20.4	37.8	40.0	12.2	10.9	14.6	248.3	103.0	49.9	54.0	101.2	125.1	55.6		

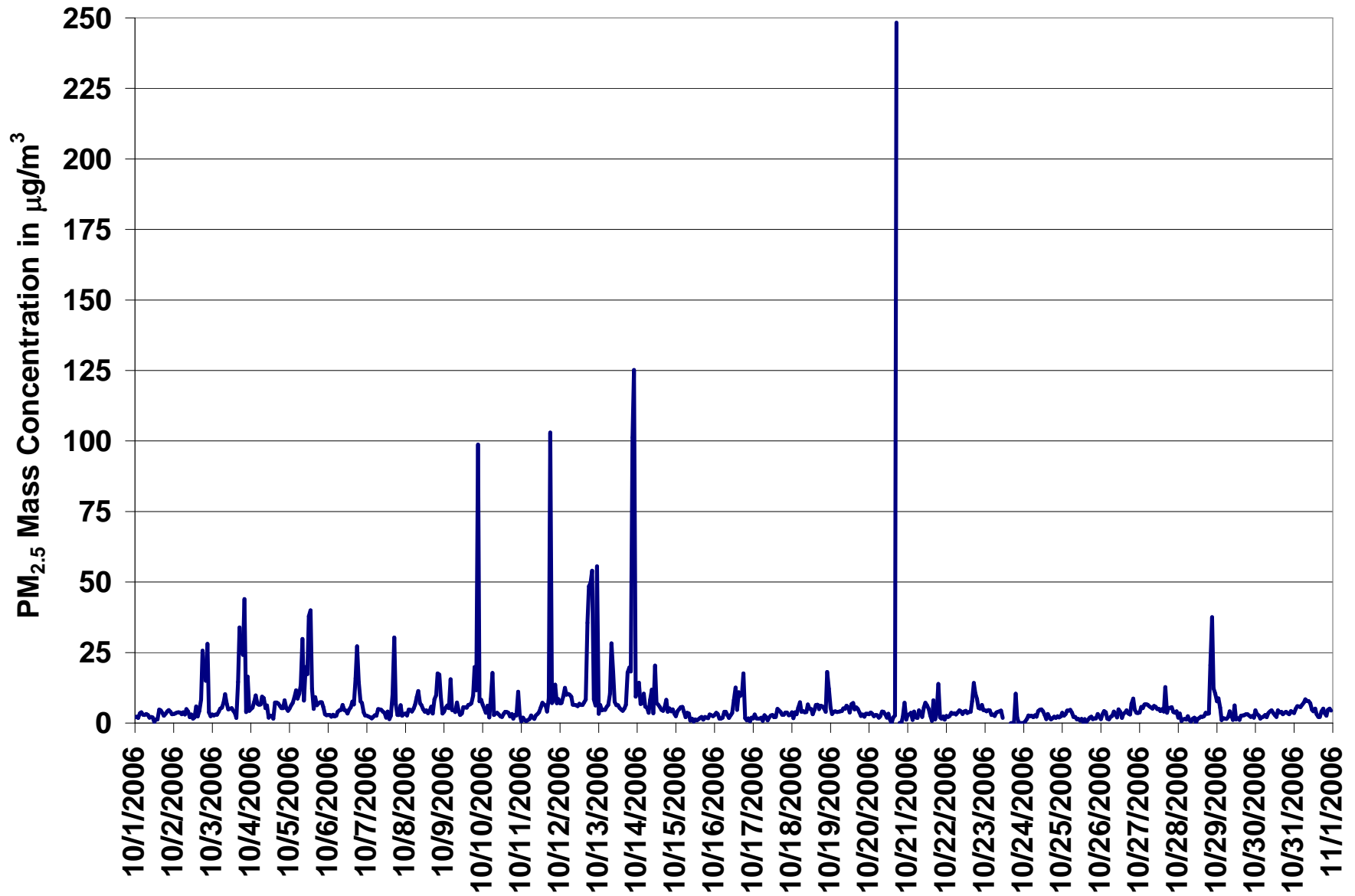
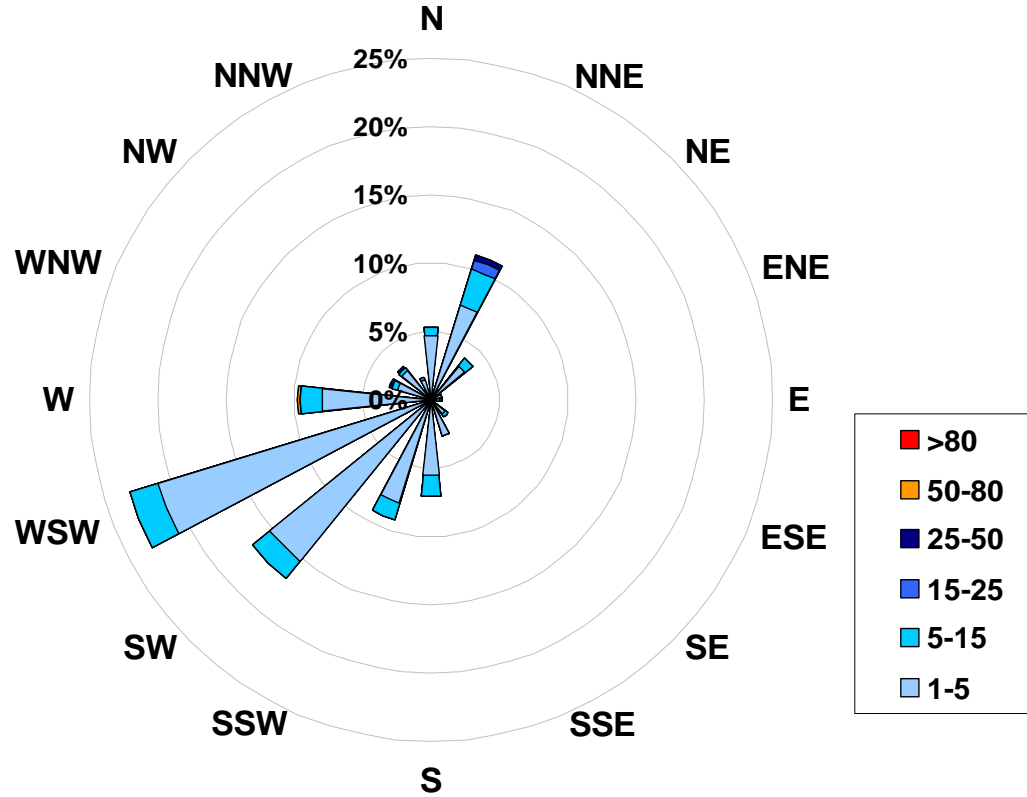


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 October 2006



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	661
5	to	15	68
15	to	25	5
25	to	50	4
50	to	80	1
	>	80	0
Total Non-Zero Values			739

PASZA - Smoky Heights - Temperature Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

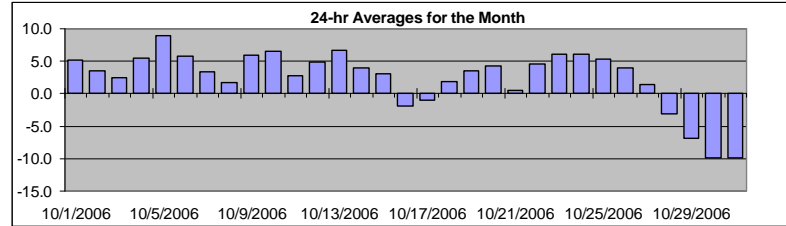
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	16.8	°C	4-Oct	16:00 17:00
Maximum 24-hr Value:	9.0	°C	5-Oct	



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
	14.3	11.2	6.6	2.6	-1.1	-8.2	-12.9	2.4 °C	2.6 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum																	
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	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-Oct-06	6	6	4	3	3	3	1	1	4	6	7	9	10	11	11	11	11	9	8	7	4	2	1	0	-1	5.2	11.2																
2-Oct-06	-1	-2	-2	-2	-2	-2	-2	-1	0	2	6	8	10	11	11	12	12	11	8	4	2	1	3	0	3.6	11.7																	
3-Oct-06	0	-1	-1	-3	-4	-5	-6	-5	-2	1	4	7	9	11	12	13	12	11	8	4	1	-1	-2	-2	2.5	12.6																	
4-Oct-06	-2	-2	-2	-3	-4	-5	-5	-5	-1	2	6	9	12	14	16	16	17	14	12	10	10	8	7	8	5.5	16.8																	
5-Oct-06	9	8	7	5	5	7	7	6	6	8	13	14	14	12	12	12	11	10	8	7	9	8	6	9.0	14.3																		
6-Oct-06	6	6	4	2	1	0	0	0	2	5	7	9	10	11	12	12	11	9	7	7	6	4	4	4	5.8	11.8																	
7-Oct-06	4	4	4	2	0	-1	-2	-3	-1	2	4	7	9	10	10	11	11	10	6	2	0	-2	-3	-4	3.3	10.9																	
8-Oct-06	-2	-2	-3	-3	-5	-5	-6	-7	-3	0	3	6	8	10	11	11	11	9	5	3	1	-1	0	-1	1.7	11.0																	
9-Oct-06	-2	-2	-3	-4	-4	-5	-5	-5	-3	2	6	11	13	14	16	16	15	13	12	12	11	12	9	6.0	16.4																		
10-Oct-06	9	8	9	8	7	7	7	7	6	6	7	8	9	10	10	10	9	7	5	4	2	1	0	0	6.5	10.2																	
11-Oct-06	1	2	2	1	1	1	1	0	0	0	1	1	2	4	7	9	9	9	6	4	2	0	0	1	2.7	9.4																	
12-Oct-06	2	0	0	0	0	1	1	2	2	4	6	6	8	9	10	11	10	8	7	7	7	6	6	6	4.9	10.9																	
13-Oct-06	5	6	6	6	6	6	5	5	6	7	8	9	10	11	11	10	9	8	5	5	6	5	4	4	6.8	11.2																	
14-Oct-06	3	3	2	2	2	2	2	2	2	3	4	4	6	6	6	6	5	5	5	5	5	5	5	5	3.9	5.8																	
15-Oct-06	5	5	5	5	5	5	5	5	5	5	4	3	3	3	3	2	1	1	1	1	0	0	0	0	3.1	5.1																	
16-Oct-06	0	-1	-1	-2	-2	-2	-2	-3	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-3	-3	-2	-1.9	-0.3																	
17-Oct-06	-2	-2	-2	-2	-5	-6	-6	-6	-5	-3	-2	0	1	2	3	4	4	2	0	1	0	1	0	0	-1.0	4.4																	
18-Oct-06	-2	-2	-3	-1	0	1	0	0	0	0	1	3	7	8	8	7	6	3	1	1	1	1	1	1	1.9	8.3																	
19-Oct-06	1	1	1	1	1	1	0	1	1	3	4	4	4	5	7	8	7	7	6	5	4	3	2	2	3.5	8.2																	
20-Oct-06	2	2	3	4	4	4	3	1	2	4	6	8	8	9	10	10	9	7	4	2	0	0	2	1	4.3	10.1																	
21-Oct-06	-1	-1	-1	-2	-1	-3	-4	-4	-3	-3	-2	-1	2	5	6	6	5	3	1	1	2	3	3	1	0.5	6.4																	
22-Oct-06	1	0	-1	-1	0	-1	-1	-1	1	2	3	5	7	8	9	11	9	8	6	8	11	10	9	7	4.6	11.2																	
23-Oct-06	5	3	2	3	3	1	1	2	3	5	8	9	10	11	11	11	11	10	9	6	6	5	5	4	6.0	11.3																	
24-Oct-06	5	5	6	5	4	4	4	4	4	4	5	6	10	11	11	10	9	8	7	6	6	5	4	4	6.1	11.3																	
25-Oct-06	4	3	1	2	1	2	3	2	2	4	5	6	8	8	9	9	8	7	7	8	8	7	6	6	5.4	8.6																	
26-Oct-06	7	7	6	5	4	2	1	0	0	2	5	7	7	8	9	8	7	6	5	3	1	0	0	-1	4.0	8.5																	
27-Oct-06	-1	0	-1	0	0	1	1	1	1	2	3	3	4	5	4	4	4	3	1	0	0	0	0	0	1.4	4.7																	
28-Oct-06	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	-3	-3	-4	-4	-5	-5	-5	-6	-6	-7	-7	-3.2	-0.5																	
29-Oct-06	-7	-7	-8	-8	-8	-8	-9	-11	-8	-7	-7	-5	-4	-5	-5	-5	-6	-6	-6	-6	-6	-7	-8	-8	-6.8	-4.4																	
30-Oct-06	-8	-8	-9	-11	-12	-13	-14	-15	-16	-14	-12	-11	-10	-8	-8	-8	-7	-8	-8	-6	-5	-7	-8	-9	-9.8	-5.2																	
31-Oct-06	-11	-12	-12	-12	-12	-13	-12	-12	-12	-11	-9	-4	-6	-3	-4	-4	-5	-8	-9	-13	-13	-14	-13	-15	-9.9	-3.3																	
Hourly Avg	1.1	0.8	0.4	0.0	-0.4	-0.8	-1.1	-1.3	-0.4	1.2	2.9	4.5	5.7	6.7	7.2	7.3	6.7	5.5	3.9	2.9	2.2	1.5	1.3	0.7																			
Hourly Max	8.9	7.9	8.5	8.3	7.3	7.3	7.1	6.5	6.2	7.7	12.6	14.3	13.5	14.3	15.9	16.5	16.8	14.6	12.7	11.7	11.8	11.0	11.7	9.1																			

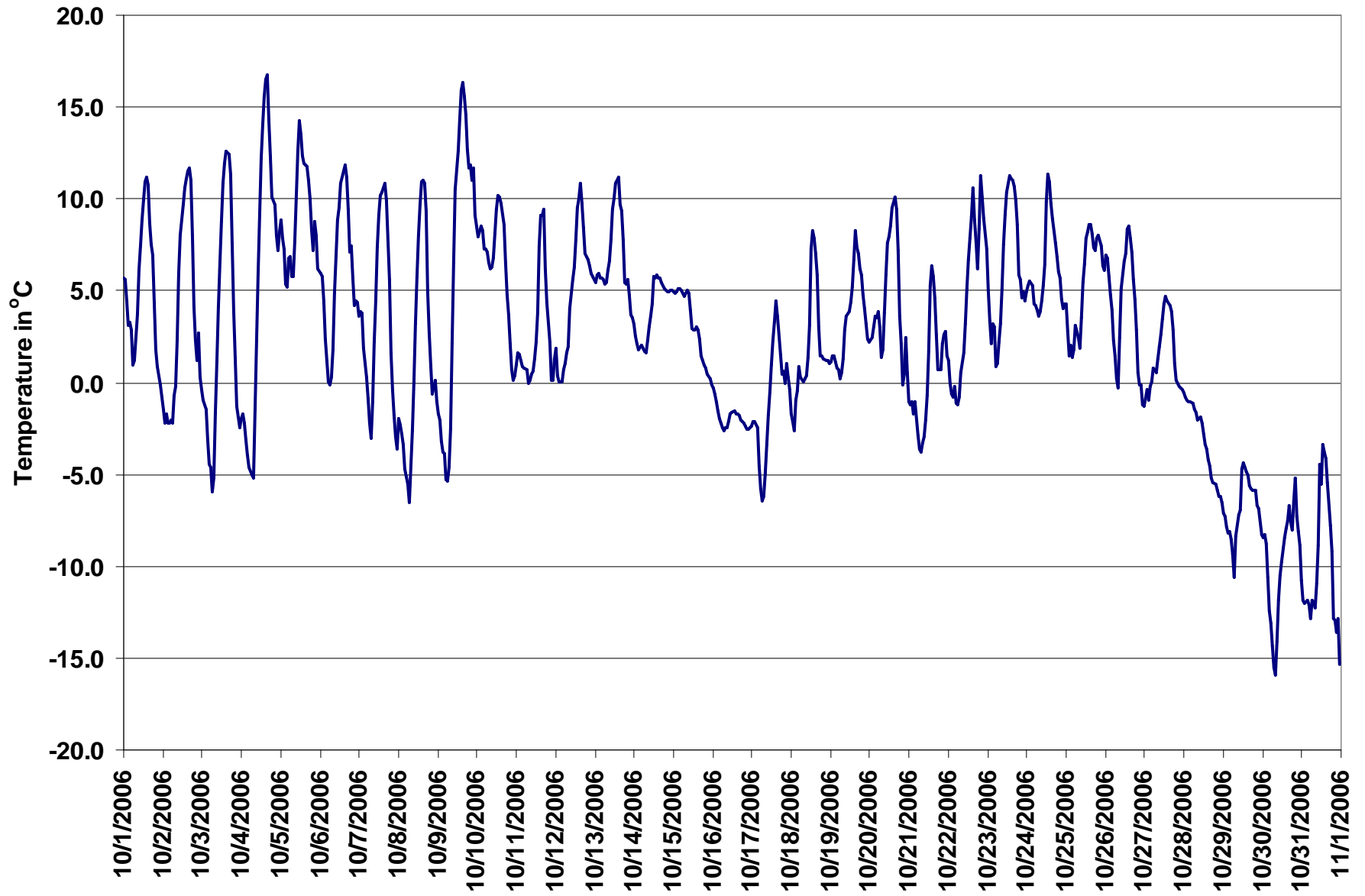


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend

PASZA - Smoky Heights - Scalar Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

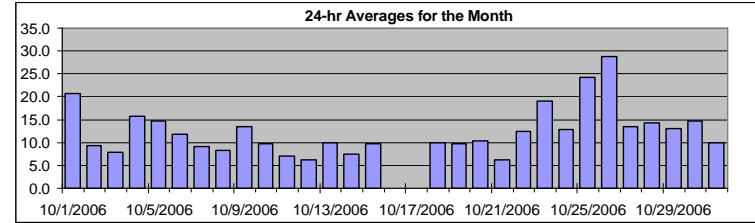
HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	40.9	km/hr	26-Oct	13:00	14:00
Maximum 24-hr Value:	28.8	km/hr	26-Oct		



Calm Time:	0 hrs	0% calms	Operational Time:	709 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	95.3%				
Percentile	99	95	75	50	25	5	1	AverageS
	35.3	25.4	15.8	10.9	7.5	4.2	2.7	12.4 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-Oct-06	26	25	23	21	23	17	13	12	15	22	25	22	21	26	25	33	30	21	24	14	13	15	14	15	20.7	33.0		
2-Oct-06	13	10	10	8	7	9	7	7	8	9	11	13	13	16	16	15	13	9	3	2	4	6	5	8	9.3	16.5		
3-Oct-06	4	8	8	8	8	7	7	8	9	9	9	9	9	8	8	8	9	8	4	5	8	8	9	9	7.8	9.3		
4-Oct-06	9	8	10	10	10	8	10	12	12	15	19	20	21	24	25	23	19	12	16	18	24	17	19	18	15.8	24.6		
5-Oct-06	19	16	15	12	6	13	12	5	8	11	17	26	28	21	23	19	12	9	11	11	12	18	15	15	14.7	27.5		
6-Oct-06	14	13	11	12	13	9	14	13	9	7	10	10	10	9	13	14	12	9	10	17	13	12	14	14	11.8	16.6		
7-Oct-06	15	9	12	16	14	12	7	8	10	10	10	6	10	12	12	7	5	5	5	6	4	5	8	9.1	16.0			
8-Oct-06	9	6	6	7	8	8	6	5	6	7	5	7	7	9	12	13	13	11	8	7	9	10	10	9	8.3	13.3		
9-Oct-06	10	9	11	7	8	11	13	11	11	16	22	30	29	24	18	17	14	14	8	7	7	10	8	10	13.6	30.1		
10-Oct-06	10	8	7	5	4	6	6	9	8	12	11	10	9	12	14	16	16	15	13	13	10	7	7	8	9.8	15.9		
11-Oct-06	8	7	8	8	8	5	6	9	7	9	8	7	8	8	5	7	5	4	7	7	5	4	8	10	7.0	9.8		
12-Oct-06	12	10	4	3	6	5	4	6	7	9	10	10	8	8	9	6	7	5	2	3	4	5	4	4	6.2	12.3		
13-Oct-06	3	6	8	8	7	8	9	8	7	9	9	11	15	16	16	14	15	13	9	10	7	8	9	11	9.9	16.2		
14-Oct-06	10	11	11	11	10	10	13	10	10	8	9	8	6	5	5	5	5	4	5	5	5	4	4	6	7.4	12.6		
15-Oct-06	4	4	5	5	4	7	7	6	7	12	14	16	14	14	12	11	12	11	10	11	12	13	11	N	9.8	15.5		
16-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
17-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	6	17	17	20	16	13	6	5	10	10	11	14	14	11	N	19.6
18-Oct-06	9	6	6	6	7	10	12	16	15	9	6	11	19	23	19	17	12	11	9	7	4	3	2	2	10.0	23.3		
19-Oct-06	3	4	4	4	5	7	7	7	8	8	10	5	6	11	11	7	5	15	13	20	18	18	20	18	9.7	20.2		
20-Oct-06	17	15	14	12	10	9	9	14	14	10	8	12	13	11	9	9	10	4	3	4	8	11	12	7	10.3	16.6		
21-Oct-06	4	5	9	5	6	5	6	8	9	6	4	3	4	6	7	8	9	9	5	4	5	8	7	9	6.2	9.4		
22-Oct-06	8	8	9	12	12	12	11	9	11	8	9	9	6	6	6	7	10	9	12	19	34	27	24	22	12.5	34.0		
23-Oct-06	17	16	14	20	18	11	17	22	21	22	25	28	27	27	24	18	20	21	17	8	18	17	18	14	19.0	28.1		
24-Oct-06	16	17	17	11	8	7	8	5	7	8	7	11	14	16	18	20	15	13	15	12	21	18	12	14	12.9	20.6		
25-Oct-06	19	17	18	18	17	19	22	22	21	21	22	30	35	41	39	29	19	15	20	25	29	28	28	29	24.2	40.8		
26-Oct-06	34	37	32	26	25	18	20	19	18	23	34	40	35	41	40	38	35	34	31	25	22	21	22	21	28.8	40.9		
27-Oct-06	23	24	22	22	20	23	20	19	16	15	15	13	12	9	9	6	8	10	14	8	5	3	2	3	13.4	24.2		
28-Oct-06	6	5	5	4	7	10	12	14	15	11	12	17	19	20	19	22	20	21	20	16	16	19	19	15	14.3	22.3		
29-Oct-06	12	13	10	12	12	10	9	7	15	14	10	9	16	17	16	16	14	12	15	18	17	14	15	13	13.1	17.7		
30-Oct-06	14	17	18	18	19	18	16	17	12	8	6	12	13	13	14	12	11	17	16	16	18	17	16	15	14.7	19.0		
31-Oct-06	14	11	11	12	6	7	10	13	15	15	12	9	7	6	13	14	11	11	12	6	7	5	6	7	10.0	15.3		
1-hr Average	12.4	12.0	11.6	11.0	10.7	10.4	10.7	11.1	11.5	11.8	12.5	14.4	15.1	15.9	15.8	15.0	13.2	11.8	11.5	11.1	12.4	12.0	11.9	12.0				
Hourly Max	34.2	37.4	31.6	25.8	24.9	23.3	21.7	22.2	21.1	22.9	34.1	40.2	35.1	40.9	39.8	38.1	35.3	33.8	31.1	25.4	34.0	27.7	27.6	29.1				

PASZA - Smoky Heights - Vector Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

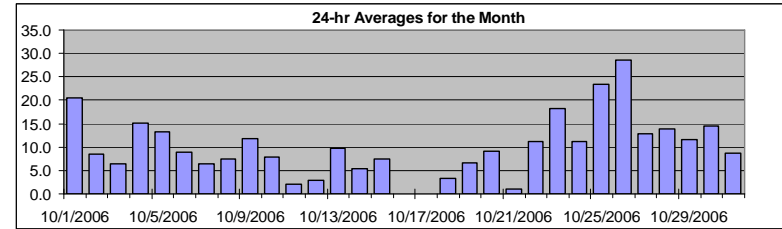
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	40.6	km/hr	25-Oct	13:00 14:00
Maximum 24-hr Value:	28.6	km/hr	26-Oct	



Calm Time:	1 hrs	0% calms	Operational Time:	708 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	95.3%				
Percentile	99	95	75	50	25	5	1	AverageV
	35.2	25.3	15.6	10.6	7.3	3.5	1.7	50.9 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
1-Oct-06	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	20.5	32.7
2-Oct-06	26	25	23	20	23	17	13	12	15	21	25	22	21	26	25	33	30	20	24	14	13	15	14	15		8.6	15.9
3-Oct-06	13	10	9	8	7	9	7	7	7	9	11	12	12	16	15	14	12	9	3	2	4	6	5	8		6.3	9.2
4-Oct-06	4	8	8	8	7	6	7	8	9	9	8	9	9	7	8	7	9	8	4	5	7	8	9	9		15.2	24.4
5-Oct-06	9	8	10	10	9	8	10	12	11	15	19	20	21	23	24	23	19	12	16	18	24	16	18	18		13.2	27.2
6-Oct-06	19	16	15	12	5	13	12	3	8	11	16	26	27	21	23	18	12	9	11	10	12	17	15	15		8.8	16.5
7-Oct-06	14	13	10	12	13	9	14	13	9	7	10	10	10	5	12	13	12	8	9	17	13	12	14	14		6.5	16.0
8-Oct-06	15	9	12	16	14	12	6	7	10	10	10	6	7	11	11	11	7	5	4	5	6	3	4	8		7.5	12.9
9-Oct-06	8	4	6	7	8	8	5	5	6	7	5	6	7	8	11	13	13	11	8	7	9	10	10	9		11.9	29.8
10-Oct-06	10	9	11	7	8	11	13	11	11	16	22	30	29	24	17	17	14	13	7	6	7	8	6	10		7.9	15.7
11-Oct-06	10	8	7	4	3	6	6	9	8	11	11	9	9	12	14	16	16	15	13	12	10	7	7	7		2.1	9.5
12-Oct-06	7	7	7	8	8	4	5	9	7	9	8	7	8	7	5	7	4	4	7	7	4	3	8	10		2.9	12.1
13-Oct-06	12	10	3	1	5	2	1	4	7	8	10	10	8	8	8	5	6	5	2	3	3	5	4	4		9.7	16.0
14-Oct-06	2	6	8	8	7	8	9	8	7	9	9	11	15	16	16	14	15	13	9	10	7	8	9	11		5.3	12.6
15-Oct-06	10	10	11	11	10	10	13	10	10	7	9	7	6	4	5	5	4	3	5	3	3	2	6		7.4	15.4	
16-Oct-06	4	4	5	5	4	6	7	6	7	12	14	15	14	14	12	11	12	11	10	11	12	13	10	N		N	0.0
17-Oct-06	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		N	19.5
18-Oct-06	N	N	N	N	N	N	N	N	N	N	6	17	17	20	15	13	5	4	10	10	11	14	14	11		3.4	22.8
19-Oct-06	9	5	5	6	7	10	12	15	15	9	6	10	17	23	18	16	12	10	8	5	2	2	1	1		6.7	19.8
20-Oct-06	2	4	4	4	5	7	7	6	8	8	10	4	6	9	8	7	2	14	13	19	18	17	20	18		9.1	16.5
21-Oct-06	16	15	14	12	10	8	9	14	14	10	8	12	13	11	9	8	10	2	2	4	8	10	12	3		0.9	9.2
22-Oct-06	4	5	9	4	5	3	calm	8	9	6	3	2	3	5	6	8	9	8	5	4	4	7	7	9		11.2	33.9
23-Oct-06	8	8	9	12	12	12	11	9	10	8	9	8	5	6	6	6	10	8	12	19	34	26	24	22		18.3	28.0
24-Oct-06	17	15	14	19	17	10	17	22	21	22	25	28	27	27	24	18	20	21	17	7	18	16	18	14		11.2	20.5
25-Oct-06	16	17	17	10	7	7	6	5	6	7	6	11	14	14	18	19	15	13	15	12	21	18	12	14		23.4	40.6
26-Oct-06	19	17	18	17	17	19	22	22	21	21	22	30	35	41	39	29	18	15	20	25	29	28	28	29		28.6	40.4
27-Oct-06	34	37	31	26	25	18	20	19	18	23	34	40	35	40	39	38	35	34	31	25	22	21	22	21		12.8	24.2
28-Oct-06	23	24	22	22	20	23	20	19	16	15	15	13	12	8	9	6	6	9	13	8	5	3	1	2		13.9	22.3
29-Oct-06	6	5	5	4	7	10	12	14	15	11	12	16	19	20	19	22	20	21	20	15	16	19	19	15		11.5	17.6
30-Oct-06	12	13	10	12	12	10	8	7	15	14	9	7	16	17	16	15	14	12	15	18	17	14	15	13		14.5	19.0
31-Oct-06	14	17	17	18	19	18	16	17	12	8	6	12	13	13	14	12	11	17	15	15	18	17	16	15		8.6	15.2
31-Oct-06	14	11	11	12	5	7	8	13	15	15	12	7	5	1	13	13	11	10	12	5	7	5	5	7			
1-hr Vector	8.8	8.1	7.9	7.5	7.6	7.1	6.5	6.3	6.1	6.3	7.5	8.5	8.7	8.7	8.3	7.3	5.5	5.2	6.8	6.5	8.5	8.5	8.3	8.1			
Hourly Max	34.1	37.3	31.5	25.7	24.8	23.2	21.6	22.1	21.0	22.8	34.0	40.1	34.9	40.6	39.4	38.0	35.3	33.8	31.1	25.3	33.9	27.6	27.5	29.0			

PASZA - Smoky Heights - Wind Direction Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2006 to November 1, 2006

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
	354.5	318.4	256.4	229.9	181.7	17.2	1.5	252 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		
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-Oct-06	249	251	257	256	253	250	244	250	241	244	245	237	242	248	258	244	253	246	266	262	253	260	255	260	251	WSW
2-Oct-06	257	254	246	230	218	222	251	227	191	181	204	223	205	206	218	231	214	170	179	216	213	222	244	245	221	SW
3-Oct-06	203	230	227	188	189	207	204	202	194	201	176	168	161	159	176	175	173	182	226	278	268	261	255	274	204	SSW
4-Oct-06	252	229	202	215	221	218	199	189	190	200	204	203	210	202	210	201	222	231	229	227	233	242	231	234	216	SW
5-Oct-06	224	218	214	219	228	215	208	174	186	188	261	279	271	267	267	252	235	233	233	250	251	259	254	250	243	WSW
6-Oct-06	254	240	244	260	258	258	262	261	248	181	226	220	229	304	1	336	344	9	310	303	310	293	289	298	279	W
7-Oct-06	308	321	256	257	251	237	242	242	219	225	220	195	255	331	334	326	353	0	348	316	316	288	282	260	276	W
8-Oct-06	258	208	182	227	195	195	220	201	188	201	178	167	176	200	238	226	226	218	201	217	257	244	253	195	215	SW
9-Oct-06	205	211	226	232	233	232	238	230	224	233	239	254	255	263	274	296	304	298	280	285	307	308	298	233	256	WSW
10-Oct-06	259	249	301	17	357	1	25	49	57	47	41	42	42	36	43	44	48	54	57	55	54	36	23	57	38	NE
11-Oct-06	54	57	40	47	51	87	110	156	159	165	172	148	146	142	182	140	99	8	291	315	2	277	250	238	127	SE
12-Oct-06	218	210	219	198	240	357	329	44	42	32	29	15	13	24	32	64	91	51	82	14	24	20	328	17	24	NNE
13-Oct-06	309	23	22	22	27	20	23	17	21	27	37	32	30	33	34	37	38	30	22	18	24	19	12	14	26	NNE
14-Oct-06	7	13	16	17	11	16	23	23	24	14	31	21	45	52	30	45	44	24	244	127	235	128	173	165	27	NNE
15-Oct-06	157	185	197	196	220	237	226	255	294	310	308	304	300	300	305	312	316	323	326	332	334	341	346	358	304	NW
16-Oct-06	5	3	358	350	351	352	355	354	354	354	1	5	359	8	11	0	358	1	4	309	295	282	240	230	N	-
17-Oct-06	211	234	232	217	215	202	196	204	198	186	206	216	218	225	213	205	177	229	212	247	259	261	261	260	N	-
18-Oct-06	237	243	222	242	248	230	167	181	183	201	190	203	286	305	330	339	355	18	25	58	151	186	15	135	261	W
19-Oct-06	239	204	179	197	221	235	247	243	252	244	246	160	152	191	211	208	166	272	272	297	303	307	308	310	262	W
20-Oct-06	313	307	297	284	285	271	252	262	256	279	309	293	292	299	306	247	237	274	243	292	272	265	345	200	283	WNW
21-Oct-06	277	248	261	266	263	212	173	24	32	29	31	239	142	126	66	34	16	32	4	14	228	225	234	226	318	NW
22-Oct-06	223	219	228	219	205	203	196	218	217	200	193	202	190	177	191	220	281	250	253	257	263	249	243	246	232	SW
23-Oct-06	253	245	255	236	242	222	213	234	229	228	231	226	229	235	228	218	220	229	212	223	214	206	193	168	226	SW
24-Oct-06	167	173	165	189	235	255	183	189	229	217	210	183	185	210	235	255	224	224	244	231	237	241	250	247	217	SW
25-Oct-06	244	227	235	244	236	250	255	250	241	239	225	227	231	229	225	212	194	206	207	203	216	228	233	244	229	SW
26-Oct-06	242	236	241	238	242	245	241	251	260	243	251	253	249	252	253	258	259	254	251	252	256	254	253	259	250	WSW
27-Oct-06	257	251	254	257	257	254	256	258	262	254	252	239	250	238	222	233	256	217	232	237	225	230	160	79	249	WSW
28-Oct-06	81	62	70	39	26	30	36	33	32	41	50	44	35	31	29	28	29	23	23	20	13	15	15	10	30	NNE
29-Oct-06	0	1	346	341	325	309	289	290	311	319	269	289	322	316	302	299	301	298	285	281	277	252	258	262	302	WNW
30-Oct-06	253	253	254	253	259	250	249	255	250	247	242	249	255	245	257	252	247	259	274	280	280	259	250	260	256	WSW
31-Oct-06	261	243	247	209	229	213	192	272	273	276	273	306	243	205	302	295	286	276	267	237	256	235	258	216	259	W
Hourly Avg	252	243	245	245	249	245	236	244	242	239	240	241	246	251	261	260	263	268	262	271	265	262	264	253		

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

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary



Determined by the Yamartino 15-min interval calculation

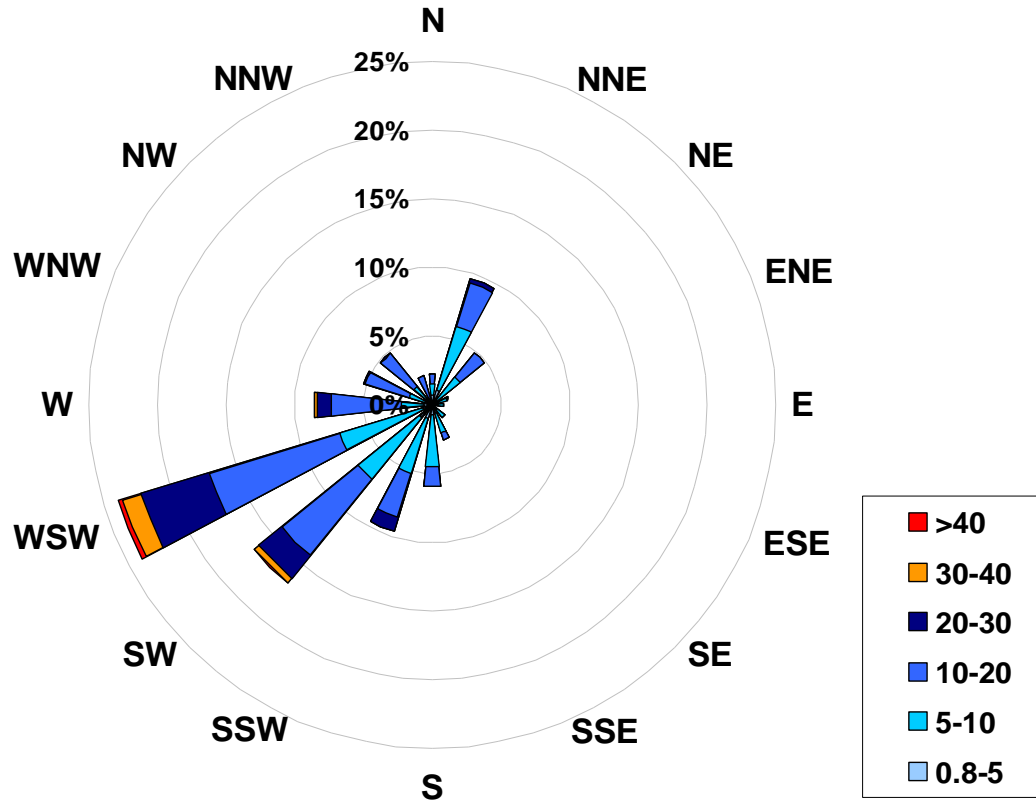
Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	45.8	31.1	11.0	6.8	4.3	2.7	2.0

Status Flag Characters

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

Day	Mountain Standard Time																								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-Oct-06	2	3	2	4	3	5	3	4	4	5	6	10	11	12	9	7	6	6	5	4	5	5	4	2	11.9	
2-Oct-06	4	6	10	10	11	6	11	11	9	9	12	13	18	14	13	17	19	7	14	37	11	5	11	8	36.6	
3-Oct-06	12	6	3	7	6	9	4	4	4	9	12	14	19	24	23	25	16	5	11	10	4	4	4	2	25.2	
4-Oct-06	12	7	7	9	7	5	3	4	5	4	6	8	8	8	8	7	4	4	3	3	3	8	3	5	11.7	
5-Oct-06	4	4	8	7	35	11	4	41	12	4	12	7	5	5	6	6	5	8	3	2	3	3	3	3	41.4	
6-Oct-06	4	4	4	2	3	7	2	3	6	12	11	12	15	37	18	18	13	12	8	5	6	6	6	7	36.8	
7-Oct-06	6	11	7	2	4	6	36	21	5	8	9	22	32	20	21	22	22	20	13	6	5	12	10	7	36.2	
8-Oct-06	6	26	10	5	5	5	14	13	6	11	20	18	19	19	16	13	11	7	4	8	3	3	4	9	26.3	
9-Oct-06	3	5	3	8	3	6	3	5	5	4	3	5	5	8	14	10	8	4	9	16	8	22	23	7	22.8	
10-Oct-06	6	8	21	24	21	9	8	7	9	8	10	16	16	11	9	9	8	6	6	5	6	10	5	7	24.4	
11-Oct-06	4	8	9	7	8	23	16	6	14	13	14	15	14	21	32	14	17	13	8	7	16	36	7	7	36.1	
12-Oct-06	5	7	50	39	35	24	67	34	11	9	9	13	15	13	14	35	8	11	44	13	10	7	14	9	66.5	
13-Oct-06	30	7	5	4	4	5	5	4	6	5	9	8	6	8	8	6	4	3	3	2	7	6	4	4	30.3	
14-Oct-06	6	4	4	4	5	5	5	7	9	13	5	22	19	27	23	9	9	10	15	9	18	35	55	9	54.6	
15-Oct-06	12	9	8	8	13	18	3	5	9	7	9	8	7	6	9	10	9	6	8	7	6	6	7	7	18.0	
16-Oct-06	6	8	7	7	7	7	8	7	8	8	8	9	9	9	9	9	12	11	18	15	12	16	15	12	17.6	
17-Oct-06	7	7	7	6	3	5	4	3	3	4	6	6	7	4	7	7	18	35	6	6	4	2	2	7	35.3	
18-Oct-06	5	13	20	15	6	8	7	4	4	8	16	7	11	10	10	11	12	6	39	18	49	19	47	46	49.4	
19-Oct-06	49	10	8	14	8	7	6	9	8	6	8	12	13	36	43	11	29	21	4	8	8	8	6	4	49.3	
20-Oct-06	6	5	6	7	9	9	6	4	4	4	10	8	6	10	24	23	10	45	31	9	10	12	8	45	45.4	
21-Oct-06	16	17	7	20	22	51	40	5	6	10	32	39	30	18	15	9	8	5	20	23	30	8	6	3	50.7	
22-Oct-06	5	4	5	4	4	6	7	11	6	6	5	12	13	14	12	9	8	16	5	4	3	5	5	4	15.8	
23-Oct-06	7	4	7	4	3	7	4	4	3	3	10	5	6	6	5	6	8	3	3	38	6	6	2	3	38.3	
24-Oct-06	3	3	3	8	7	6	14	11	30	22	17	7	8	14	9	8	5	4	6	10	3	3	5	4	29.9	
25-Oct-06	4	3	3	4	5	3	2	5	3	4	6	6	6	5	5	6	6	5	3	4	4	4	3	3	6.3	
26-Oct-06	4	4	4	5	4	4	3	3	3	4	4	5	5	5	6	4	4	3	3	3	2	3	3	3	6.2	
27-Oct-06	1	3	2	4	3	2	2	2	3	3	5	6	7	5	31	38	40	4	4	12	24	17			40.1	
28-Oct-06	8	8	7	7	7	6	4	4	4	5	6	5	5	4	3	3	4	4	4	4	4	4	3	3	4	7.8
29-Oct-06	6	6	6	5	4	7	10	8	4	5	11	24	6	7	7	5	4	5	3	3	3	4	4	3	23.6	
30-Oct-06	4	7	5	3	2	2	2	2	19	11	16	5	4	3	3	4	7	2	3	2	2	4	3	3	19.3	
31-Oct-06	3	5	7	4	13	15	23	10	4	5	7	32	38	46	8	7	6	8	3	8	8	12	17	7	45.7	
Hourly Max	49	26	50	39	35	51	67	41	30	22	32	39	38	46	43	35	38	45	44	38	49	36	55	46		

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



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	64
5	to	10	258
10	to	20	299
20	to	30	70
30	to	40	15
	>	40	3
Total Non-Zero Values			709

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: October 1, 2006 to November 1, 2006

Alberta's Air Quality Index

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

Summary

Number of 1-hr Good Readings:	695
Number of 1-hr Fair Readings:	0
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-Oct-06	15	15	15	14	N	14	13	13	15	15	16	16	16	16	16	16	15	14	13	14	14	13	13	
2-Oct-06	12	11	10	11	N	9	9	7	7	8	10	13	N	16	17	17	17	16	12	13	14	13	11	
3-Oct-06	11	10	10	9	N	8	7	6	6	9	11	13	16	16	17	17	16	14	15	15	14	11	10	
4-Oct-06	9	8	8	8	N	8	8	7	8	9	13	15	N	N	18	19	18	17	16	17	17	16	18	
5-Oct-06	18	13	10	13	N	19	14	17	19	18	19	19	19	19	19	19	18	18	18	17	15	16	16	
6-Oct-06	16	15	13	13	N	12	11	12	9	10	10	14	15	17	19	19	18	18	16	17	15	14	14	
7-Oct-06	13	13	11	11	N	9	9	7	7	9	12	14	15	16	N	N	17	17	16	15	15	9	8	
8-Oct-06	8	9	10	8	N	7	7	7	7	7	9	11	12	14	15	16	16	15	13	12	13	12	10	
9-Oct-06	10	10	10	10	N	11	12	12	12	14	15	17	19	19	N	19	19	17	16	16	14	15	14	
10-Oct-06	14	13	12	12	N	11	N	8	11	12	15	15	16	17	17	16	15	15	14	14	13	13	12	
11-Oct-06	11	10	9	6	N	6	7	6	6	5	6	6	7	7	7	6	6	6	9	8	7	6	7	
12-Oct-06	6	5	6	8	N	8	10	8	7	7	8	9	11	12	12	12	12	7	10	9	10	8	6	
13-Oct-06	6	7	6	5	N	6	6	6	5	9	8	7	8	10	13	13	12	11	10	9	8	8	8	
14-Oct-06	10	10	10	8	N	6	4	5	5	6	6	6	7	6	5	4	6	6	6	6	3	3	2	
15-Oct-06	2	2	2	2	N	2	2	3	3	3	4	4	5	5	6	6	5	5	5	5	6	6	6	
16-Oct-06	9	9	10	10	N	11	12	12	12	12	N	N	N	13	N	N	N	1	13	7	14	15	15	
17-Oct-06	15	14	14	11	N	8	5	5	8	9	10	10	13	16	N	18	17	16	18	18	17	17	14	
18-Oct-06	15	13	12	11	N	13	9	8	11	15	16	16	16	15	14	14	13	12	11	14	9	10	11	
19-Oct-06	11	10	8	7	N	6	6	6	4	5	6	5	7	N	17	17	16	16	16	14	14	15	14	
20-Oct-06	15	14	12	11	N	14	13	12	11	11	13	15	16	17	16	16	13	12	11	10	9	13	13	
21-Oct-06	10	11	11	9	N	8	6	8	7	6	8	8	9	12	13	14	13	11	12	12	11	9	9	
22-Oct-06	10	10	11	10	N	9	9	9	10	9	7	9	14	14	11	10	11	13	20	20	18	17	15	
23-Oct-06	15	14	16	17	N	17	17	17	18	18	18	19	N	18	17	15	17	19	18	16	17	17	18	
24-Oct-06	17	17	18	18	N	15	14	7	13	16	13	15	17	19	18	19	18	17	16	15	15	14	13	
25-Oct-06	15	15	14	13	N	16	16	16	15	13	16	18	18	18	18	18	18	17	17	16	17	18	17	
26-Oct-06	17	18	17	17	N	17	18	17	18	18	19	19	19	19	19	19	18	18	16	14	13	14	15	
27-Oct-06	15	16	17	16	N	15	14	12	11	9	7	10	12	15	19	19	18	17	16	13	16	18	20	
28-Oct-06	19	19	19	19	N	19	18	17	17	18	19	19	19	17	17	17	16	16	16	16	16	16	17	
29-Oct-06	17	17	17	17	N	15	13	13	14	15	15	16	16	17	18	18	18	17	17	16	16	14	14	
30-Oct-06	14	14	13	N	N	15	13	14	14	15	14	13	14	16	16	13	10	9	11	14	14	13	14	
31-Oct-06	14	13	14	15	N	14	14	13	11	12	14	15	16	16	18	17	16	17	12	11	10	13	14	

PASZA - Beaverlodge - Sulphur Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

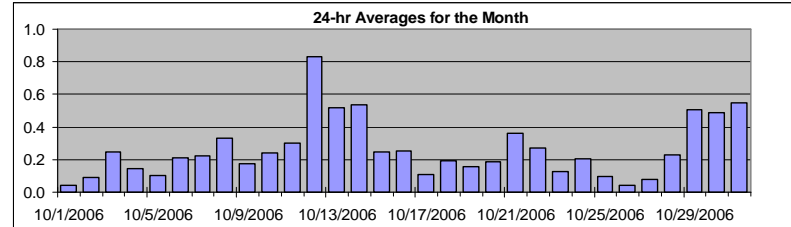
Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	1.8 ppb 30-Oct 19:00 20:00
Maximum 24-hr Average:	0.8 ppb 12-Oct



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
	1.3	0.9	0.3	0.2	0.1	0.0	0.0	0.3 ppb	0.2 ppb

Status Flag Characters

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

Day Mountain Standard Time

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum
1-Oct-06	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-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
2-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
3-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.2	0.6
4-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
5-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
6-Oct-06		0	0	0	0	A	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0.2	0.9
7-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
8-Oct-06		0	0	0	0	A	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.3	1.3
9-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
10-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.2	0.6
11-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	1	0.3	0.7
12-Oct-06		1	0	0	0	A	0	0	1	1	1	1	1	1	1	1	1	1	2	2	1	2	1	1	1	0.8	1.8
13-Oct-06		1	0	0	0	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.5	1.1
14-Oct-06		0	0	0	0	A	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0.5	1.1
15-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
16-Oct-06		0	0	0	0	A	0	1	0	0	0	0	0	0	0	C	C	A	0	0	0	0	0	0	0	0.3	0.5
17-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
18-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
19-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
20-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
21-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	0.4	1.8
22-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.3	0.5
23-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	0.6
24-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
25-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
26-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
27-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
28-Oct-06		0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.2	1.4
29-Oct-06		0	0	0	0	A	1	0	0	1	1	2	1	1	1	0	0	1	0	0	0	0	0	0	0	0.5	1.6
30-Oct-06		0	0	0	0	A	0	0	0	0	0	0	1	0	0	1	1	1	0	1	2	1	1	0	0	0.5	1.8
31-Oct-06		0	0	0	0	A	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0.5	1.4
Hourly Avg		0.2	0.2	0.2	0.2	N	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
Hourly Max		0.7	0.5	0.4	0.4	0.0	0.9	0.7	0.7	1.2	1.1	1.6	1.3	1.8	1.4	1.3	0.9	0.9	1.8	1.5	1.8	1.6	0.9	1.4	1.3		

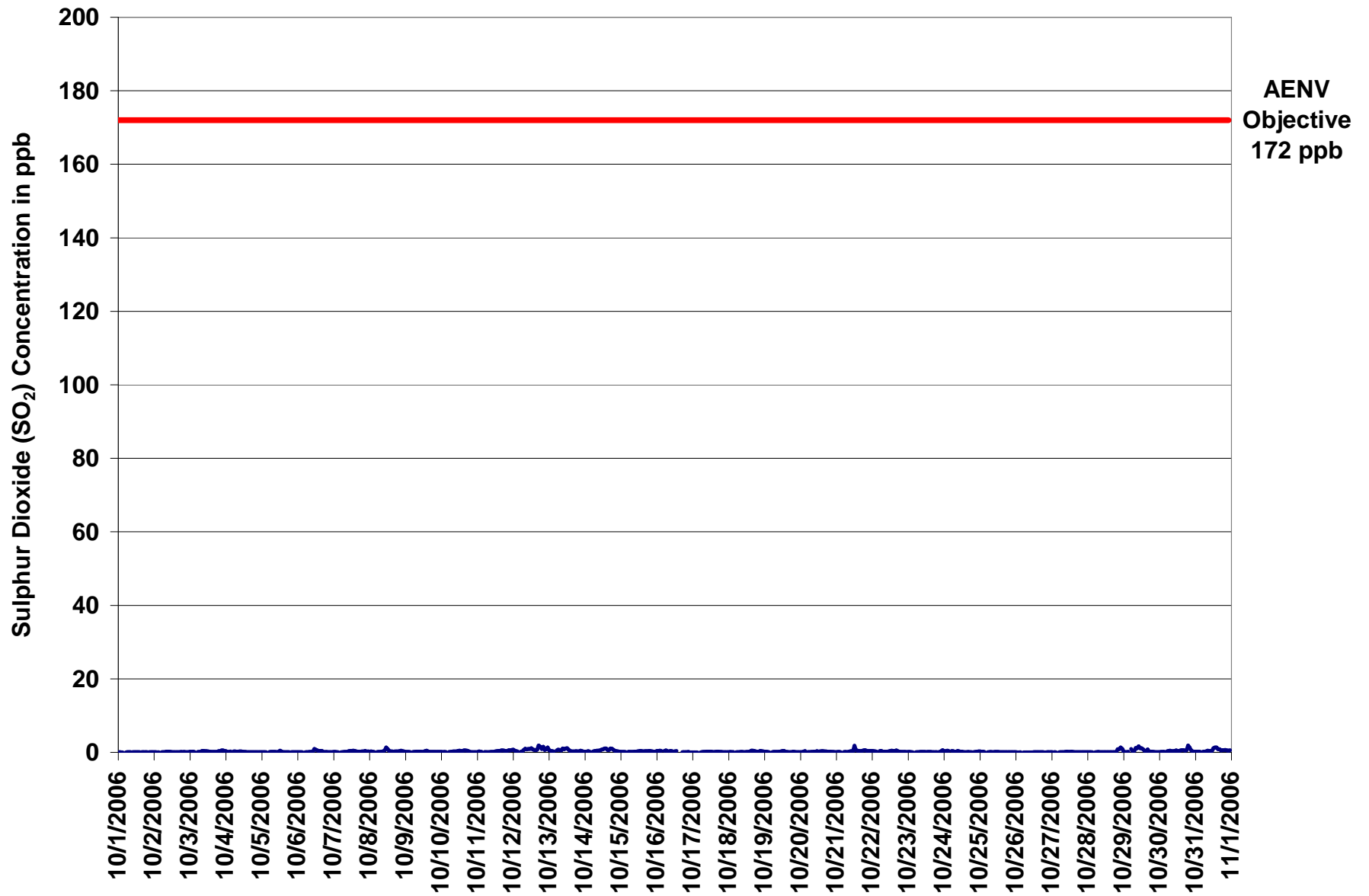


Figure 34. PASZA - Beaverlodge Sulphur Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

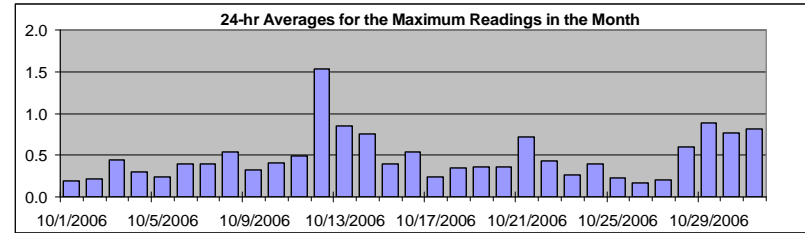
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	7.4	ppb	12-Oct	20:00 21:00
Maximum 24-hr Value:	1.5	ppb	12-Oct	



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
	2.7	1.3	0.6	0.3	0.2	0.2	0.1	0.5 ppb	0.3 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Oct-06	0	0	0	0	A	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
2-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
3-Oct-06	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0.4	1.2	
4-Oct-06	1	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	0.5	
5-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.2	0.7	
6-Oct-06	0	0	0	0	A	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0.4	1.3	
7-Oct-06	0	0	0	0	A	0	0	1	0	0	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0.4	1.0	
8-Oct-06	0	0	0	0	A	0	0	0	0	1	1	2	2	1	0	0	0	0	0	0	1	1	0	0	0.5	1.7	
9-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0.3	0.8	
10-Oct-06	0	0	0	0	A	0	0	0	1	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0.4	0.8	
11-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0.5	1.0	
12-Oct-06	1	1	0	0	A	0	0	1	1	1	1	1	1	1	1	1	3	3	4	7	1	1	2	1.5	7.4		
13-Oct-06	1	1	0	0	A	1	1	3	1	2	1	1	1	1	1	0	0	0	0	0	1	1	0	0.8	2.8		
14-Oct-06	0	0	0	0	A	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0.8	1.4		
15-Oct-06	0	0	0	0	A	0	0	0	0	0	0	1	1	1	1	0	0	1	1	1	0	0	0	0.4	0.6		
16-Oct-06	1	1	1	1	A	1	1	1	1	1	1	0	1	1	C	C	A	0	0	0	0	0	0	0.5	1.3		
17-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.2	0.5		
18-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0.3	0.7		
19-Oct-06	0	0	0	0	A	0	0	0	1	0	1	1	1	1	0	0	0	0	1	0	0	0	0	0.4	0.9		
20-Oct-06	0	0	0	1	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0.4	0.8		
21-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	6	1	1	0	0	1	1	1	1	0	1	0.7	6.0		
22-Oct-06	1	0	0	0	A	1	1	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0.4	0.7		
23-Oct-06	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	0.7		
24-Oct-06	1	0	1	1	A	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7		
25-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5		
26-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3		
27-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3		
28-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	3	0.6	2.9		
29-Oct-06	0	0	0	1	A	2	0	1	2	2	2	2	2	1	1	1	1	1	1	0	0	0	0	0.9	2.5		
30-Oct-06	0	0	0	0	A	0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	0	0.8	2.5		
31-Oct-06	0	0	0	0	A	0	0	0	1	1	0	1	2	2	2	1	1	1	1	1	1	1	1	0.8	1.9		
Hourly Avg	0.3	0.3	0.3	0.3	N	0.4	0.3	0.5	0.4	0.5	0.5	0.6	0.8	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.5	0.5	0.4			
Hourly Max	1.0	0.7	0.6	0.7	0.0	2.1	1.1	2.8	1.5	2.1	2.5	2.1	6.0	1.9	1.7	1.3	1.3	3.1	2.8	3.9	7.4	2.1	2.9	2.3			

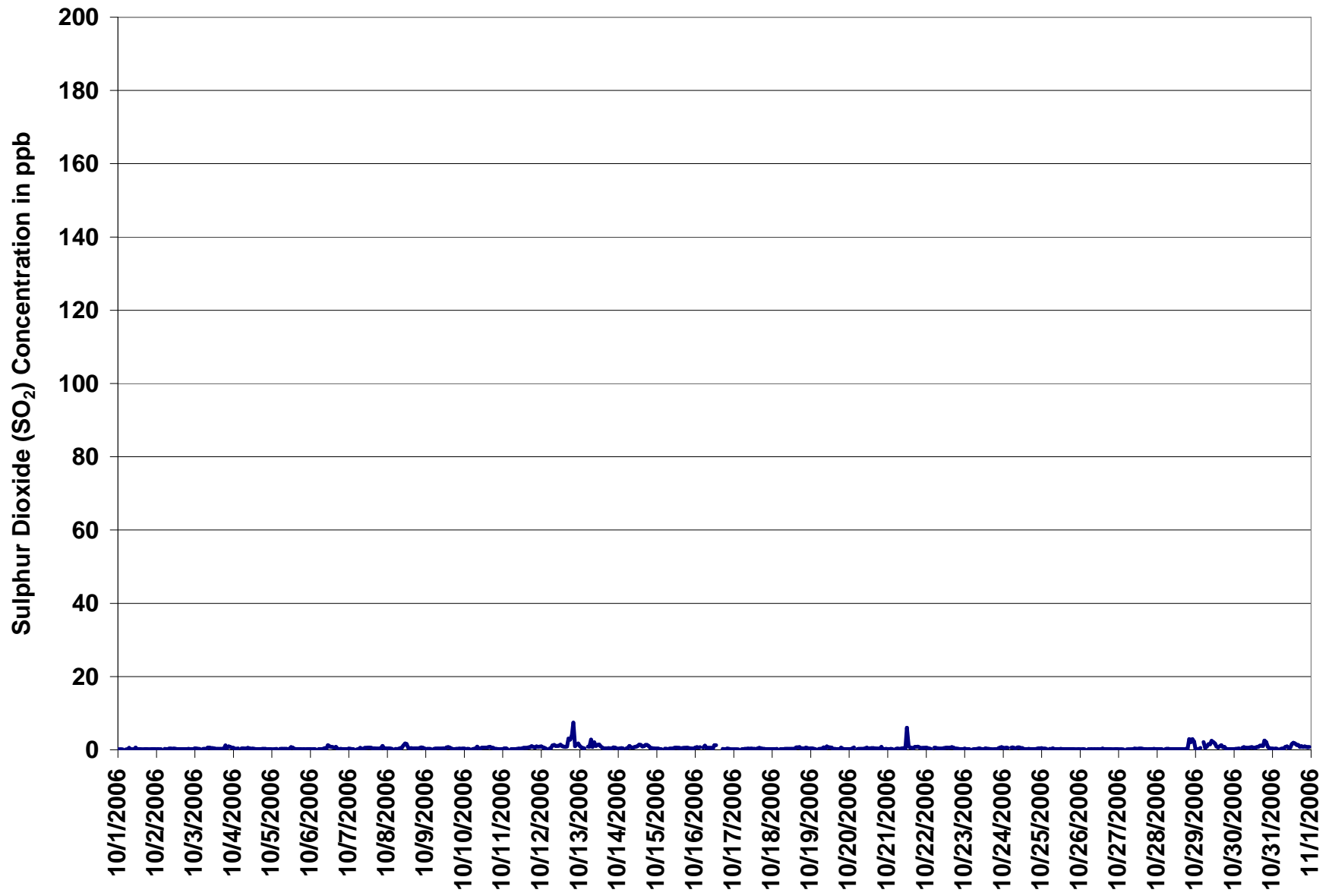
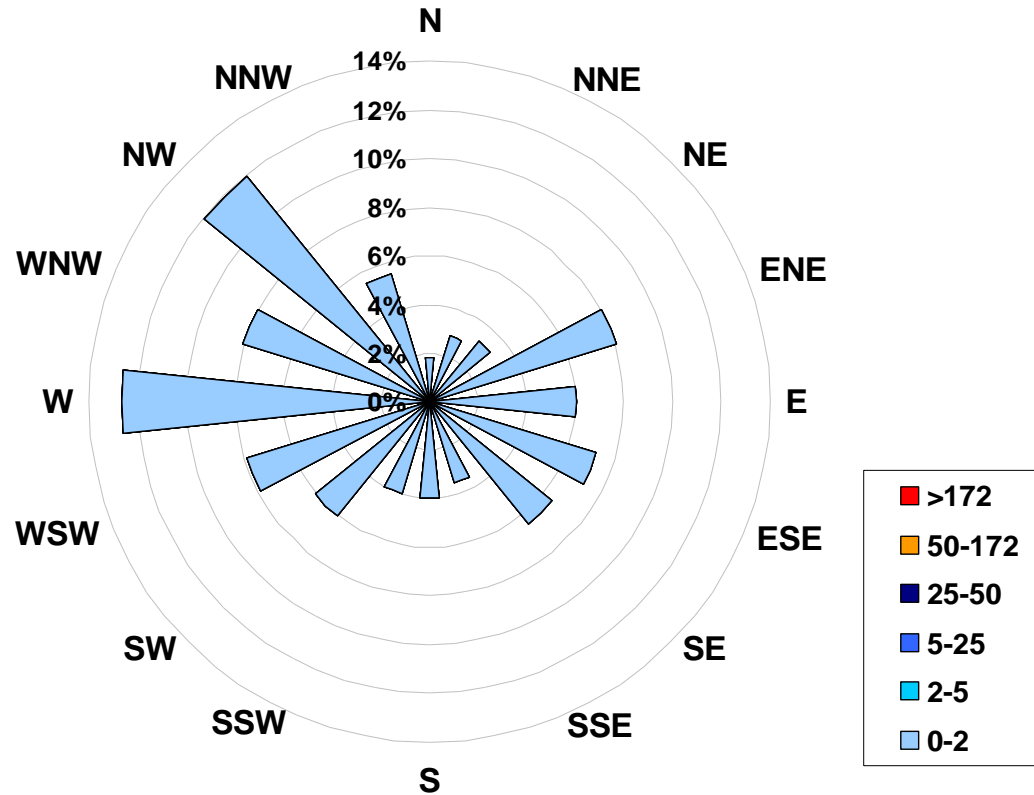


Figure 35. PASZA - Beaverlodge Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 1%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
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

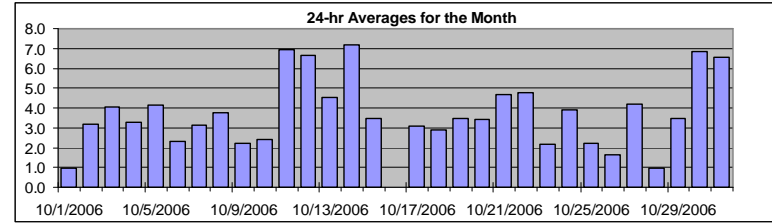
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Summary				
Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	19.9 ppb	30-Oct	17:00	18:00
Maximum 24-hr Average:	7.2 ppb	14-Oct		



AIC Time:	32 hrs		Operational Time:	707 hrs					
Calibration Time:	5 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	15.2	9.8	4.9	2.8	1.4	0.9	0.1	3.7 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																								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-Oct-06	0:00	1	0	1	A	2	4	2	0	0	0	0	0	0	0	0	0	1	1	2	1	2	2	2	1.0	3.8
2-Oct-06	1:00	2	2	2	A	3	4	6	8	6	4	2	1	1	1	1	1	2	9	6	3	4	2	3	3.2	9.1
3-Oct-06	2:00	3	3	2	A	5	6	7	9	8	4	3	1	2	4	2	2	3	5	3	3	4	7	6	4.1	8.9
4-Oct-06	3:00	6	5	6	A	5	5	6	4	5	2	1	1	1	0	1	1	2	2	4	2	2	5	3	3.3	6.0
5-Oct-06	4:00	2	10	15	A	4	13	9	4	4	2	2	2	2	2	2	2	1	2	1	2	2	2	2	4.2	15.3
6-Oct-06	5:00	2	1	1	A	2	4	2	5	4	5	2	1	1	1	1	1	1	2	2	3	3	2	3	2.3	5.4
7-Oct-06	6:00	2	3	2	A	2	4	7	4	3	2	1	1	0	0	0	1	1	1	1	4	11	9	11	3.2	11.4
8-Oct-06	7:00	8	6	4	A	6	5	5	5	4	4	2	1	1	0	0	0	2	4	4	4	5	5	5	3.8	8.0
9-Oct-06	8:00	4	4	3	A	3	3	2	3	3	3	1	0	0	0	1	1	1	2	2	4	3	3	2	2.2	4.3
10-Oct-06	9:00	1	1	1	A	4	4	10	6	5	1	1	1	1	1	1	2	2	2	2	2	1	2	2	2.4	10.1
11-Oct-06	10:00	2	2	3	A	3	4	4	4	5	5	4	3	4	7	8	10	11	16	13	11	12	13	13	6.9	16.0
12-Oct-06	11:00	18	15	8	A	5	3	4	5	4	3	3	2	2	2	2	2	10	17	13	5	7	8	8	6.6	17.6
13-Oct-06	12:00	5	6	4	A	4	4	8	6	9	7	6	5	4	3	3	3	3	3	3	3	3	3	3	4.5	8.8
14-Oct-06	13:00	2	2	2	A	4	8	8	9	7	7	7	7	8	7	8	11	10	10	10	10	9	8	8	7.2	10.7
15-Oct-06	14:00	7	8	8	A	9	8	3	2	2	1	1	1	1	1	1	2	2	3	3	2	3	2	3.5	8.7	
16-Oct-06	15:00	1	1	1	A	1	1	1	1	1	C	C	C	C	C	A	1	1	2	2	2	1	1	1	N	2.2
17-Oct-06	16:00	1	2	3	A	7	9	8	3	3	3	3	4	3	1	2	2	3	1	1	2	1	2	3	3.1	9.3
18-Oct-06	17:00	2	3	3	A	2	5	6	5	1	1	1	1	1	2	3	3	4	3	2	6	4	3	2	2.9	6.3
19-Oct-06	18:00	2	3	4	A	4	5	6	8	7	8	6	5	4	2	1	1	1	2	3	2	1	1	1	3.5	8.0
20-Oct-06	19:00	1	1	2	A	2	3	4	7	6	4	2	2	1	1	1	4	6	6	6	7	2	2	2	3.4	7.4
21-Oct-06	20:00	2	3	3	A	6	10	5	5	6	6	3	3	3	3	3	4	4	3	5	6	7	6	7	4.7	9.9
22-Oct-06	21:00	5	5	4	A	8	8	8	6	8	7	5	4	4	6	7	6	6	1	1	1	1	1	1	4.8	8.3
23-Oct-06	22:00	1	1	1	A	2	3	2	2	2	1	1	1	1	2	4	8	3	1	2	3	2	2	2	2.2	7.9
24-Oct-06	23:00	3	3	3	A	4	6	12	8	5	7	4	4	2	1	1	2	1	1	1	1	2	7	5	3.9	12.1
25-Oct-06	0:00	2	1	4	A	1	2	2	3	6	2	1	1	1	1	1	1	2	3	5	3	1	1	1	2.2	5.8
26-Oct-06	1:00	1	1	1	A	1	1	2	2	2	1	1	1	1	1	1	1	1	3	5	4	2	2	1	1.6	4.8
27-Oct-06	2:00	2	2	1	A	1	4	5	6	11	15	10	7	4	3	2	2	3	5	7	2	2	1	1	4.2	15.2
28-Oct-06	3:00	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.2
29-Oct-06	4:00	1	1	1	A	4	7	5	5	4	3	3	2	2	2	3	5	4	4	4	4	7	5	5	3.5	7.1
30-Oct-06	5:00	3	4	4	A	3	6	4	4	4	5	9	7	4	3	13	19	20	14	7	7	7	4	3	6.8	19.9
31-Oct-06	6:00	4	7	5	A	4	3	6	11	11	7	4	2	3	2	3	5	4	14	15	16	10	7	6	6.5	16.5
Hourly Avg		3.1	3.4	3.4	3.3	N	3.6	5.0	5.2	4.9	4.7	4.0	3.0	2.4	2.2	2.1	2.6	3.1	3.8	4.7	4.4	4.0	4.0	3.9	3.7	
Hourly Max		17.6	15.2	15.3	9.7	0.0	8.7	12.9	12.1	11.3	11.0	15.2	9.7	7.2	8.2	7.3	12.9	19.0	19.9	17.1	15.0	16.5	11.4	12.0	12.9	

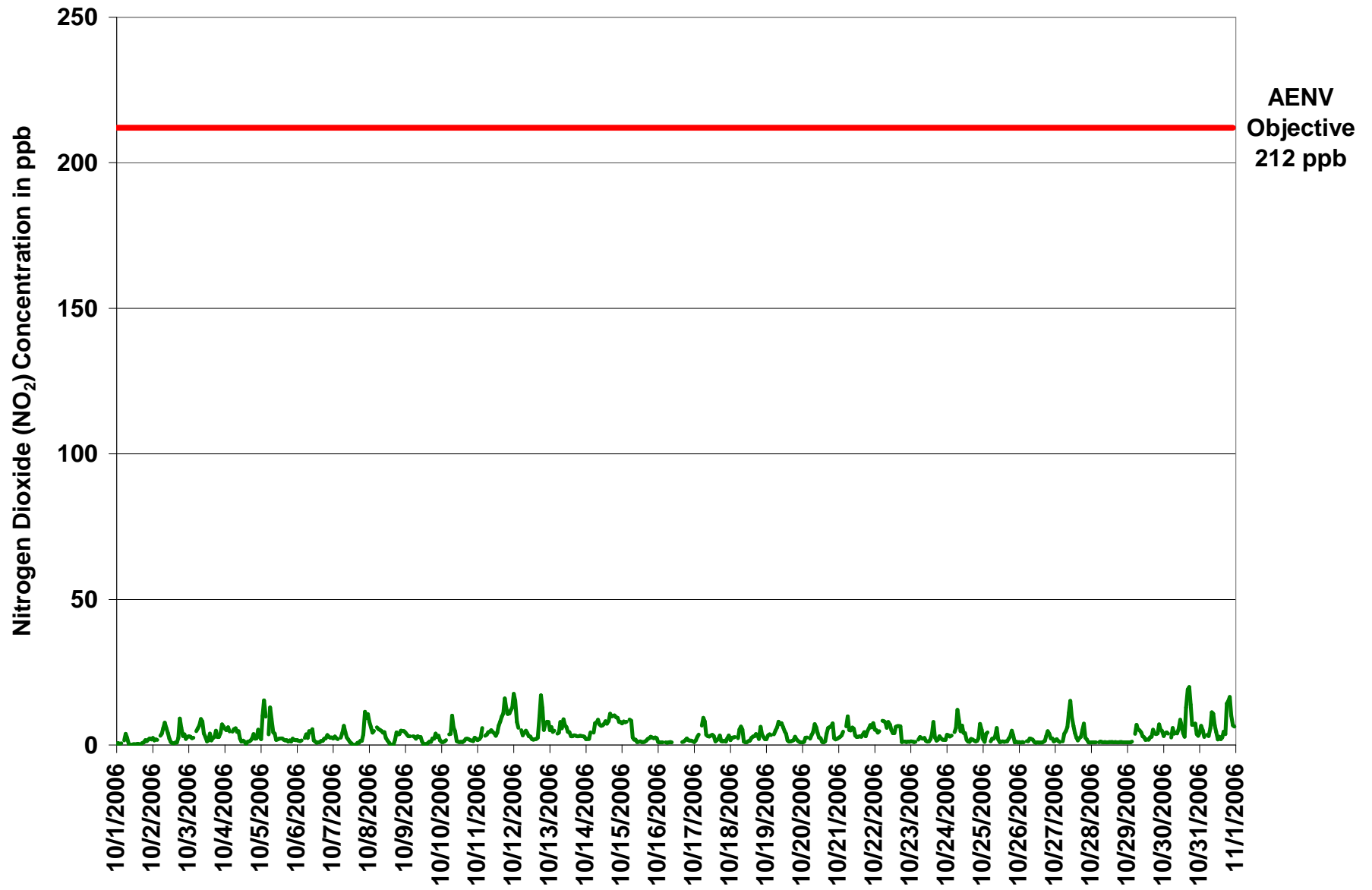


Figure 36. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

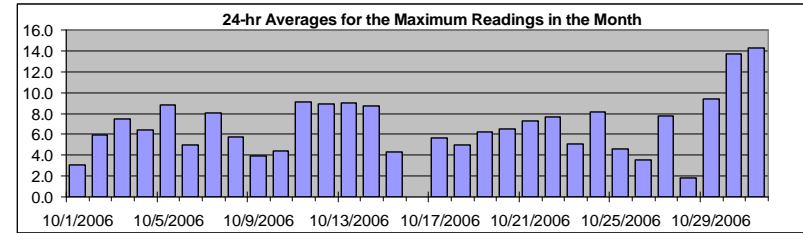
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	82.2	ppb	29-Oct	17:00 18:00
Maximum 24-hr Value:	14.3	ppb	31-Oct	



AIC Time:	32 hrs	Operational Time:	707 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	31.1	18.3	8.2	5.0	3.0	1.0	1.0	6.8 ppb	5.0 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-Oct-06	1	2	2	2	A	4	6	11	1	1	13	2	1	1	2	1	2	3	3	3	4	4	2	3.0	12.5	
2-Oct-06	3	3	4	2	A	9	8	9	11	8	7	6	2	1	1	2	7	21	11	6	6	4	4	6.0	21.4	
3-Oct-06	4	4	3	4	A	6	12	9	13	12	5	4	3	5	6	3	4	6	9	14	7	16	13	10	7.5	16.1
4-Oct-06	7	6	8	6	A	8	7	7	8	13	3	2	3	4	3	6	2	4	7	10	7	6	11	8	6.4	13.1
5-Oct-06	5	23	23	15	A	5	34	22	9	8	4	5	4	5	4	6	4	5	3	4	3	5	3	6	8.8	33.8
6-Oct-06	4	2	3	2	A	6	7	6	12	8	10	5	2	2	1	2	3	5	5	5	4	4	11	5.0	12.2	
7-Oct-06	7	6	7	2	A	6	10	18	9	5	4	2	1	1	1	2	1	3	3	23	30	19	22	8.1	30.4	
8-Oct-06	12	8	6	6	A	7	9	7	8	5	5	4	3	1	1	1	1	7	11	5	5	8	7	5	5.8	11.7
9-Oct-06	5	4	4	4	A	4	3	4	7	3	5	4	1	1	1	2	2	2	6	5	6	7	7	4	3.9	7.1
10-Oct-06	2	2	2	3	A	7	7	17	14	7	3	2	2	3	2	2	3	4	3	2	4	3	4	4	4.4	17.3
11-Oct-06	3	2	6	9	A	6	5	5	6	7	7	5	4	5	9	10	11	13	21	19	12	14	13	16	9.1	21.3
12-Oct-06	19	19	14	7	A	9	5	6	7	6	4	4	3	3	2	3	3	14	20	19	7	9	11	9	8.9	20.0
13-Oct-06	7	10	5	9	A	5	6	71	11	16	9	7	6	5	3	3	4	4	7	3	4	4	3	4	9.0	70.9
14-Oct-06	3	3	3	6	A	7	15	11	10	8	7	8	8	9	9	10	12	11	11	11	11	10	9	8	8.7	14.7
15-Oct-06	8	8	8	9	A	10	10	5	2	3	2	2	3	2	2	2	2	3	3	4	3	3	3	3	4.3	10.2
16-Oct-06	2	1	1	1	A	1	1	2	9	1	C	C	C	C	C	A	2	2	6	5	3	2	2	2	N	9.4
17-Oct-06	2	3	6	9	A	10	14	16	6	4	3	4	5	6	3	4	9	5	3	3	5	4	4	4	5.7	16.0
18-Oct-06	3	5	4	6	A	6	8	7	10	4	2	2	3	3	4	6	4	6	6	4	12	5	4	3	5.0	11.7
19-Oct-06	4	6	5	6	A	5	8	8	19	13	15	13	6	6	3	3	3	3	4	5	3	3	2	1	6.2	19.0
20-Oct-06	1	2	3	3	A	4	5	6	19	18	8	6	4	2	1	2	9	13	9	12	14	3	3	3	6.5	18.6
21-Oct-06	4	5	5	6	A	19	14	8	7	8	8	6	4	4	4	6	7	4	7	7	9	7	15	7.3	18.8	
22-Oct-06	7	6	5	8	A	13	13	18	11	12	10	6	6	6	8	8	13	12	2	3	2	2	3	3	7.7	18.2
23-Oct-06	4	2	2	3	A	6	7	9	5	7	3	2	4	6	12	16	5	5	4	5	4	2	3	3	5.1	16.1
24-Oct-06	6	4	3	6	A	11	18	21	12	9	11	8	17	4	3	2	5	5	5	4	4	5	16	8	8.1	21.2
25-Oct-06	6	3	7	7	A	3	4	6	9	10	5	3	2	4	2	3	3	4	5	8	6	2	3	1	4.6	9.7
26-Oct-06	2	1	2	2	A	3	3	6	6	5	2	3	2	2	1	2	4	5	7	8	6	3	4	3	3.6	7.9
27-Oct-06	3	4	4	2	A	3	12	10	13	22	20	16	10	6	5	3	6	5	7	16	4	6	1	1	7.7	21.7
28-Oct-06	1	2	2	1	A	2	3	3	1	2	2	2	3	2	3	2	2	1	2	2	2	2	1	2	1.9	3.0
29-Oct-06	2	1	1	2	A	6	10	8	7	7	4	3	3	3	6	5	4	82	21	6	6	13	8	9	9.4	82.2
30-Oct-06	4	5	5	5	A	4	27	15	9	24	9	11	9	6	9	18	37	36	31	13	14	12	6	6	13.7	37.2
31-Oct-06	6	10	9	4	A	4	4	18	27	26	11	9	2	7	3	4	15	9	38	30	41	27	14	10	14.3	40.9
Hourly Avg	4.7	5.2	5.2	5.0	N	6.4	9.5	11.9	9.6	9.1	6.3	5.5	4.3	3.8	3.8	4.5	5.9	9.4	9.3	8.1	7.6	7.4	6.3	6.2		
Hourly Max	19.4	22.7	23.4	15.3	0.0	18.8	33.8	70.9	26.5	26.4	20.1	15.8	17.4	9.2	12.3	17.7	37.2	82.2	38.2	30.4	40.9	30.4	19.4	22.2		

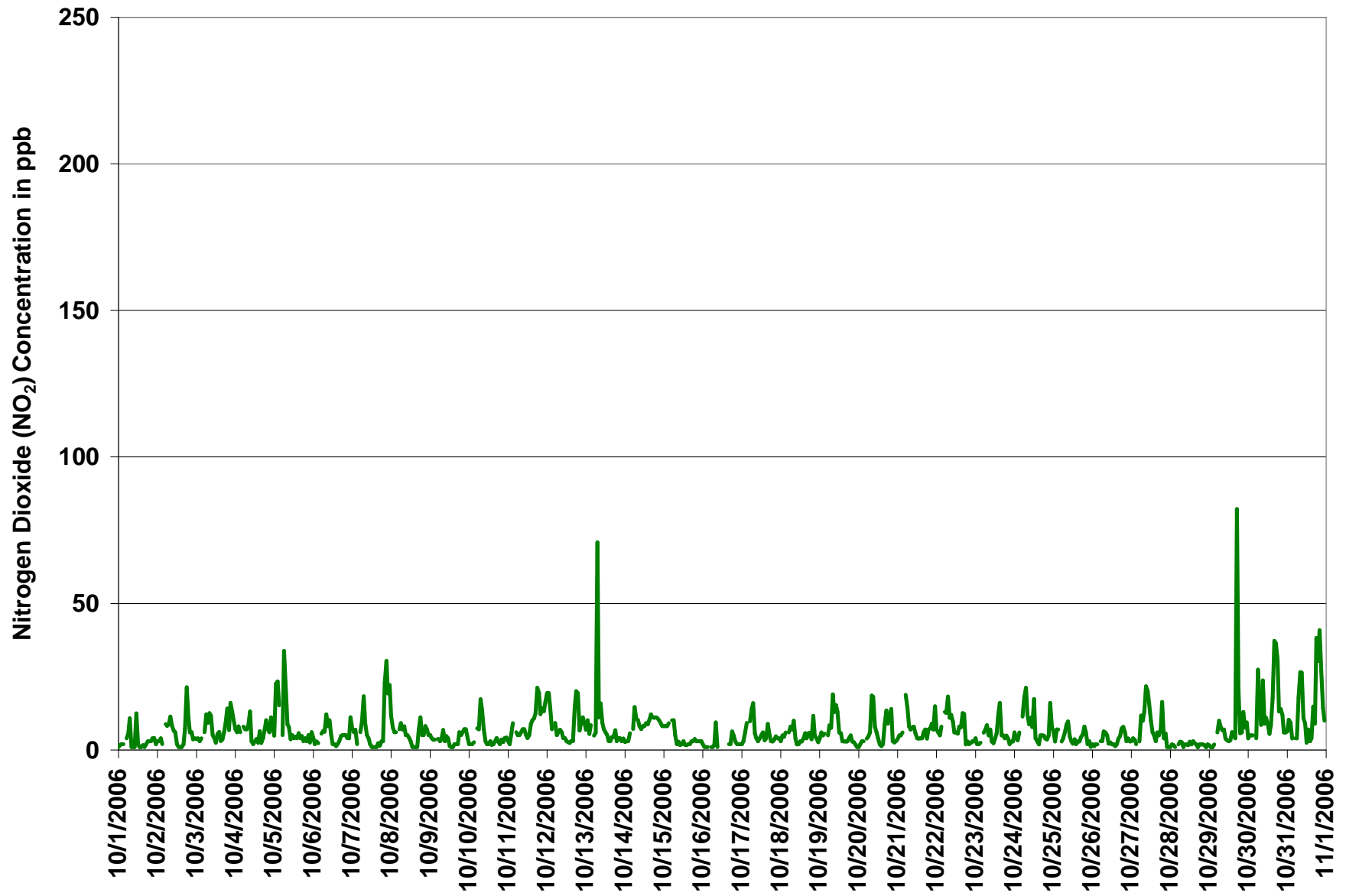
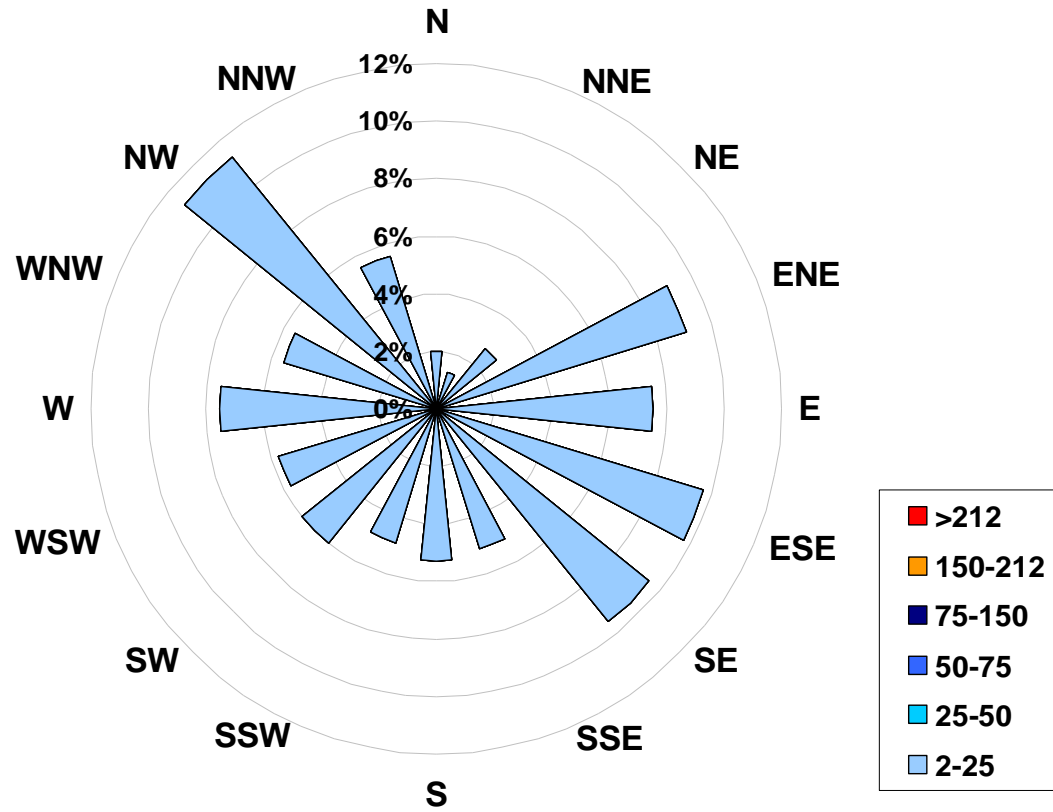


Figure 37. PASZA - Beaverlodge Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 1%

Frequency Distribution of NO ₂ in ppb			
Range			Frequency (hrs)
2.0	<	25	707
25	to	50	0
50	to	75	0
75	to	150	0
150	to	212	0
	>	212	0
Total Non-Zero Values			707

PASZA - Beaverlodge - Nitric Oxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

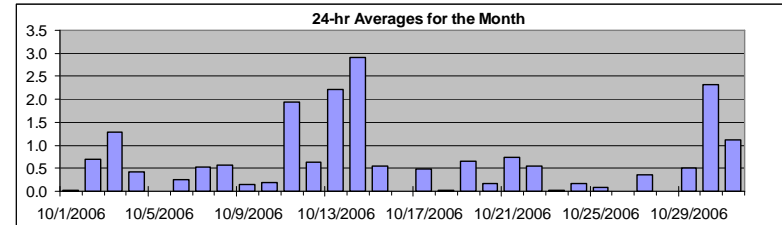
Nitric Oxide (NO)

Monitoring Dates: October 1, 2006 to November 1, 2006

Guideline Limit:
 Summary

1-hr	na	ppb	24-hr	na	ppb
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Maximum 1-hr Average:	19.5	ppb	13-Oct	9:00	10:00
Maximum 24-hr Average:	2.9	ppb	14-Oct		



AIC Time:	32 hrs	Operational Time:	707 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	7.9	3.8	0.4	0.0	0.0	0.0	0.0	0.6 ppb	0.0 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
2-Oct-06	0	0	0	0	A	0	0	1	4	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.7	4.6
3-Oct-06	0	0	0	0	A	0	0	1	9	9	3	2	1	1	2	0	1	0	0	0	0	0	0	0	0	1.3	9.5
4-Oct-06	0	0	0	0	A	0	0	1	2	4	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	3.5
5-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
6-Oct-06	0	0	0	0	A	0	0	0	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.4
7-Oct-06	0	0	0	0	A	0	0	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	4	0	0	0.5	3.7
8-Oct-06	0	0	0	0	A	0	0	0	2	4	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.6	4.1
9-Oct-06	0	0	0	0	A	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.1
10-Oct-06	0	0	0	0	A	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.7
11-Oct-06	0	0	0	0	A	0	0	0	1	3	4	3	4	5	7	6	4	3	3	1	0	0	0	0	0	1.9	7.3
12-Oct-06	2	1	0	0	A	0	0	0	1	2	2	2	1	0	0	0	0	1	2	1	0	0	0	0	0	0.6	2.1
13-Oct-06	0	0	0	0	A	0	0	4	3	20	9	7	4	2	1	1	0	0	0	0	0	0	0	0	0	2.2	19.5
14-Oct-06	0	0	0	0	A	0	1	4	3	4	4	5	6	5	5	5	8	6	4	3	1	3	1	1	2.9	8.3	
15-Oct-06	0	1	1	1	A	3	1	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.6	2.9
16-Oct-06	0	0	0	0	A	0	0	0	0	0	C	C	C	C	C	A	0	0	0	0	0	0	0	0	0	N	0.2
17-Oct-06	0	0	0	0	A	0	1	1	1	2	2	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0.5	2.6
18-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3
19-Oct-06	0	0	0	0	A	0	0	0	2	1	2	4	3	2	0	0	0	0	0	0	0	0	0	0	0	0.7	4.2
20-Oct-06	0	0	0	0	A	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.3
21-Oct-06	0	0	0	0	A	0	0	0	1	4	5	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0.7	4.5
22-Oct-06	0	0	0	0	A	0	0	0	0	1	2	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0.5	2.6
23-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3
24-Oct-06	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	0.2	1.0
25-Oct-06	0	0	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.3
26-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
27-Oct-06	0	0	0	0	A	0	0	0	0	1	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	3.3
28-Oct-06	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
29-Oct-06	0	0	0	0	A	0	0	0	1	1	1	2	2	1	1	1	0	0	1	0	0	0	0	0	0	0.5	1.9
30-Oct-06	0	0	0	0	A	0	0	0	0	2	5	11	8	4	3	8	7	4	1	0	0	0	0	0	0	2.3	10.8
31-Oct-06	0	0	0	0	A	0	0	0	3	6	5	4	1	2	1	1	1	0	0	0	1	0	0	0	0	1.1	6.1
Hourly Avg	0.1	0.1	0.0	0.0	N	0.1	0.1	0.5	1.2	2.5	2.2	2.0	1.4	0.9	0.8	0.8	0.8	0.4	0.4	0.1	0.1	0.2	0.0	0.0			
Hourly Max	2.0	1.2	0.9	0.8	0.0	2.9	0.8	4.5	8.6	19.5	8.7	10.8	7.9	5.1	7.3	8.2	8.3	5.7	4.4	2.6	1.0	3.7	0.9	0.5			

PASZA - Beaverlodge - Oxides of Nitrogen Monthly Summary

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Station: Beaverlodge
 Station Owner: PASZA

Monitoring Dates: October 1, 2006 to November 1, 2006

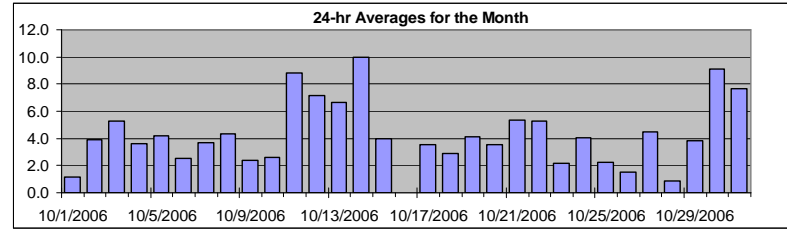
Guideline Limit: Alberta Environment:

1-hr	na	ppb	24-hr	na	ppb
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 Summary

Maximum 1-hr Average:	28.3	ppb	13-Oct	9:00 10:00
Maximum 24-hr Average:	10.0	ppb	14-Oct	

AIC Time:	32 hrs	Operational Time:	707 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	18.8	12.8	5.8	2.9	1.5	0.8	0.3	4.3 ppb	2.9 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	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-Oct-06	0:00	1	1	0	1	A	2	4	3	1	0	0	1	1	1	1	0	1	1	2	1	2	2	2	1.1	3.9	
2-Oct-06	1:00	2	2	2	2	A	3	4	7	12	10	7	4	2	1	1	1	1	3	9	6	3	4	2	3	3.9	12.0
3-Oct-06	2:00	3	3	2	2	A	5	6	8	17	17	7	5	2	2	6	2	3	3	5	3	3	4	7	6	5.3	17.5
4-Oct-06	3:00	5	5	6	5	A	5	5	6	6	8	3	2	3	2	1	1	1	2	2	4	2	2	5	3	3.6	8.2
5-Oct-06	4:00	2	10	15	10	A	4	13	9	4	4	2	2	2	2	2	2	2	1	2	1	2	2	2	2	4.2	15.1
6-Oct-06	5:00	2	1	1	2	A	2	4	2	5	6	8	2	2	1	1	1	2	1	2	2	3	3	2	3	2.5	7.7
7-Oct-06	6:00	2	3	2	2	A	2	4	9	6	4	3	1	1	0	0	0	1	1	1	1	4	15	9	11	3.7	15.0
8-Oct-06	7:00	8	6	4	5	A	6	5	5	7	8	9	4	3	1	0	0	0	2	4	4	4	5	5	5	4.3	8.5
9-Oct-06	8:00	4	4	3	3	A	3	3	2	4	3	4	2	0	0	0	1	1	1	2	2	4	3	3	2	2.4	4.1
10-Oct-06	9:00	1	1	1	2	A	4	4	10	7	6	2	2	1	1	1	2	2	2	2	2	1	1	2	2	2.6	10.3
11-Oct-06	10:00	2	2	3	6	A	3	4	5	5	8	8	7	8	9	14	14	14	13	18	13	10	11	12	13	8.8	18.3
12-Oct-06	11:00	19	16	8	6	A	5	3	4	6	6	5	5	3	2	2	2	3	11	19	13	5	7	8	8	7.2	19.3
13-Oct-06	12:00	5	6	4	5	A	4	4	12	8	28	15	13	8	6	4	4	4	3	3	3	3	3	3	3	6.7	28.3
14-Oct-06	13:00	2	2	2	4	A	4	8	12	12	11	10	12	13	13	12	13	19	15	14	13	10	12	9	8	10.0	18.8
15-Oct-06	14:00	8	8	8	8	A	12	9	3	2	2	2	2	2	2	2	2	2	2	2	3	3	2	3	2	4.0	11.6
16-Oct-06	15:00	1	1	1	1	A	1	1	1	1	1	C	C	C	C	C	C	A	1	1	2	2	2	1	1	N	2.1
17-Oct-06	16:00	1	1	3	3	A	7	10	9	4	5	5	6	5	4	1	2	2	3	1	1	1	1	2	3	3.6	9.9
18-Oct-06	17:00	1	2	2	3	A	2	5	6	6	1	1	1	2	2	3	3	3	4	3	2	6	4	3	2	2.9	6.3
19-Oct-06	18:00	2	3	4	3	A	4	5	6	10	8	10	10	8	6	2	1	1	1	1	2	3	2	1	1	4.1	10.4
20-Oct-06	19:00	1	1	2	2	A	2	3	4	8	7	5	3	3	1	1	1	4	6	6	6	7	2	2	2	3.6	8.1
21-Oct-06	20:00	2	3	3	4	A	6	10	5	6	10	10	6	4	4	4	3	4	4	3	5	5	7	6	7	5.3	10.2
22-Oct-06	21:00	5	5	4	5	A	8	8	8	6	9	9	8	6	5	8	8	7	7	1	1	1	1	1	1	5.3	9.2
23-Oct-06	22:00	1	1	1	1	A	2	3	2	2	3	2	1	1	2	4	8	3	1	2	3	2	2	2	1	2.2	8.3
24-Oct-06	23:00	3	3	3	3	A	4	6	13	8	5	8	5	5	2	1	1	2	2	1	1	1	2	7	5	4.0	12.6
25-Oct-06	0:00	2	1	4	4	A	1	2	2	3	7	2	1	1	1	1	1	1	2	3	5	3	1	1	1	2.3	7.2
26-Oct-06	1:00	1	0	1	1	A	1	1	2	2	2	1	1	1	1	1	1	1	1	3	5	4	2	2	1	1.6	4.6
27-Oct-06	2:00	1	2	1	1	A	1	4	5	6	12	18	12	8	4	3	2	2	3	5	7	2	2	1	0	4.5	18.5
28-Oct-06	3:00	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
29-Oct-06	4:00	1	0	1	1	A	4	7	5	6	6	5	4	3	3	3	4	3	6	4	4	4	7	5	5	3.9	6.9
30-Oct-06	5:00	3	4	4	4	A	2	6	4	5	6	11	20	14	8	6	21	26	23	15	7	7	7	4	3	9.1	26.4
31-Oct-06	6:00	4	6	5	2	A	3	3	6	14	17	12	9	3	5	3	3	5	4	15	15	17	10	7	8	7.7	17.4
Hourly Avg		3.1	3.4	3.3	3.2	N	3.6	5.0	5.7	6.2	7.2	6.2	5.0	3.9	3.1	2.9	3.5	4.0	4.3	4.9	4.5	4.0	4.1	3.8	3.7		
Hourly Max		19.3	16.2	15.1	9.6	0.0	11.6	12.8	12.6	17.3	28.3	18.5	19.5	14.4	13.1	13.9	21.1	26.4	23.4	19.0	15.0	17.4	15.0	11.8	12.8		

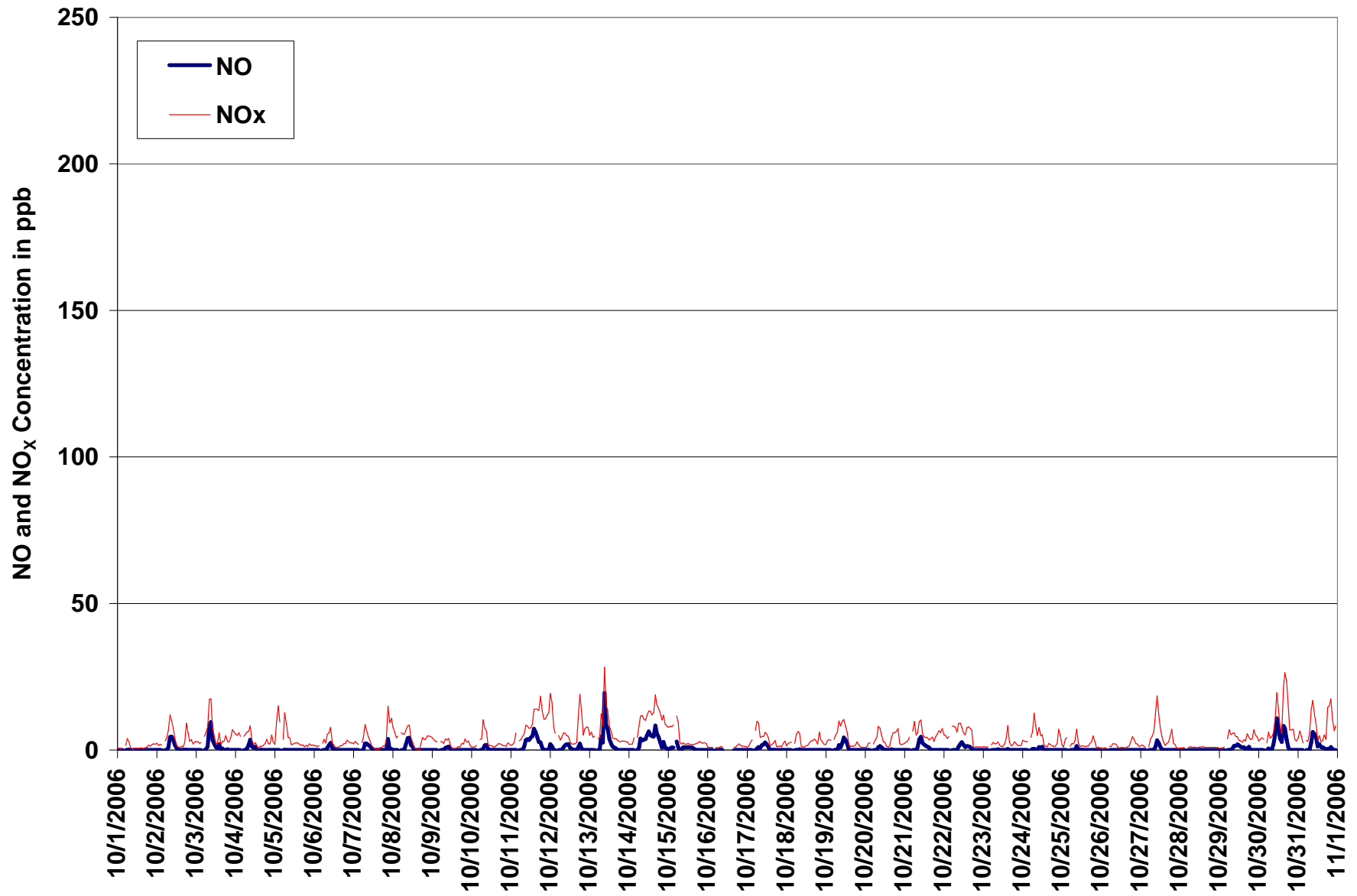


Figure 38. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

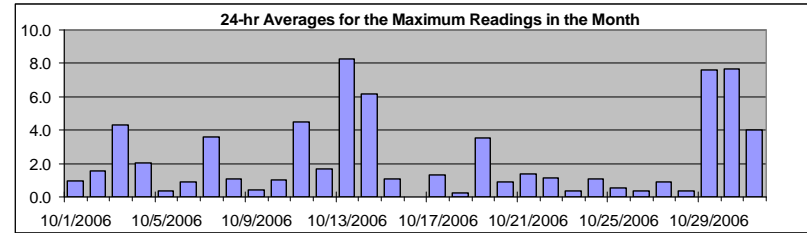
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	103.8	ppb	29-Oct	18:00 19:00
Maximum 24-hr Value:	8.2	ppb	13-Oct	



AIC Time:	32 hrs	Operational Time:	707 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	27.1	9.7	1.9	0.3	0.0	0.0	0.0	2.3 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-Oct-06	0	0	0	0	A	0	0	4	0	1	1	10	1	1	1	1	1	1	0	0	0	0	0	0	0.9	9.8
2-Oct-06	0	0	0	0	A	1	1	2	7	6	6	6	1	1	1	1	1	1	0	0	0	0	0	0	1.5	6.9
3-Oct-06	0	0	0	0	A	0	9	3	16	17	5	4	1	5	4	1	1	4	28	0	0	0	0	4.3	28.2	
4-Oct-06	0	0	0	0	A	1	0	2	4	16	2	1	14	2	1	2	1	0	0	0	0	0	0	2.0	16.3	
5-Oct-06	0	0	0	0	A	0	2	1	1	1	0	0	1	0	0	1	1	1	0	0	0	0	0	0.4	2.4	
6-Oct-06	0	0	0	0	A	0	0	1	4	5	5	2	1	1	0	0	0	0	1	0	0	0	0	0.9	5.3	
7-Oct-06	0	0	1	0	A	1	1	19	5	4	4	1	1	1	0	0	0	0	0	0	10	27	3	3.6	27.2	
8-Oct-06	0	1	0	0	A	0	0	1	4	6	6	3	2	1	0	0	0	0	0	0	0	0	0	1.1	6.0	
9-Oct-06	0	0	0	0	A	0	0	0	4	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0.4	3.8	
10-Oct-06	0	0	0	0	A	0	0	1	14	3	1	1	1	2	0	0	0	0	0	0	0	0	0	1.0	14.4	
11-Oct-06	0	0	0	1	A	0	0	1	2	5	6	4	5	7	10	9	6	5	22	14	0	1	1	4.5	22.5	
12-Oct-06	4	4	1	0	A	2	0	0	3	3	3	3	2	1	1	0	2	4	3	0	1	1	0	1.6	4.0	
13-Oct-06	1	1	0	0	A	1	0	73	11	61	20	8	5	3	2	1	1	0	1	0	0	0	0	8.2	73.2	
14-Oct-06	0	0	0	0	A	1	5	29	9	6	5	7	9	7	7	9	13	11	7	4	2	8	2	6.2	29.0	
15-Oct-06	1	1	1	1	A	6	2	1	1	1	1	2	2	1	1	1	1	0	1	0	0	0	0	1.1	6.0	
16-Oct-06	0	0	0	0	A	0	0	1	12	0	C	C	C	C	C	A	0	0	2	0	0	0	0	N	12.4	
17-Oct-06	0	0	0	0	A	0	3	7	2	3	2	4	3	2	1	1	2	1	0	0	0	0	0	1.3	6.9	
18-Oct-06	0	0	0	0	A	0	0	0	2	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0.2	1.9	
19-Oct-06	0	0	0	0	A	1	5	3	20	6	18	18	4	5	1	1	0	0	0	0	0	0	0	3.5	20.2	
20-Oct-06	0	0	0	0	A	0	0	0	5	7	2	1	1	1	0	0	1	2	0	0	0	0	0	0.9	7.5	
21-Oct-06	0	0	0	0	A	0	1	0	3	5	7	5	2	2	2	1	1	0	0	0	0	0	2	1.4	7.0	
22-Oct-06	0	0	0	0	A	0	0	2	1	3	3	3	3	2	2	2	2	2	0	0	0	1	0	1.1	3.0	
23-Oct-06	0	0	0	0	A	0	0	0	1	2	1	0	1	1	2	2	0	0	0	0	0	0	0	0.4	1.7	
24-Oct-06	0	0	0	0	A	1	5	6	1	1	2	2	4	1	1	0	1	0	1	0	0	0	0	1.1	5.8	
25-Oct-06	0	0	0	0	A	0	1	0	2	3	1	1	1	1	0	1	1	1	0	0	1	0	0	0.6	2.9	
26-Oct-06	0	0	0	0	A	0	0	1	0	1	1	1	1	1	0	1	1	1	0	0	0	0	0	0.3	1.0	
27-Oct-06	0	0	0	0	A	0	0	0	2	4	5	6	2	1	0	0	0	0	0	0	0	0	0	0.9	5.7	
28-Oct-06	0	0	0	0	A	0	3	0	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0.4	3.1	
29-Oct-06	0	0	0	0	A	0	0	0	2	2	3	3	3	2	2	2	1	52	104	0	0	0	0	7.6	103.8	
30-Oct-06	0	0	0	0	A	0	16	3	1	6	11	15	12	7	36	14	24	22	7	1	1	0	0	7.7	36.2	
31-Oct-06	0	0	0	0	A	0	0	2	12	17	9	8	2	6	2	1	3	1	8	2	8	9	1	4.0	17.0	
Hourly Avg	0.2	0.2	0.1	0.1	N	0.5	1.8	5.2	4.9	6.3	4.4	4.0	2.8	2.1	2.6	1.8	2.0	3.4	5.3	1.7	0.7	1.5	0.3	0.4		
Hourly Max	4.0	3.9	1.0	1.0	0.0	6.0	15.6	73.2	20.2	61.4	19.8	18.5	13.7	7.3	36.2	13.6	24.4	52.0	103.8	28.2	9.8	27.2	3.3	3.9		

Station: Beaverlodge
 Station Owner: PASZA

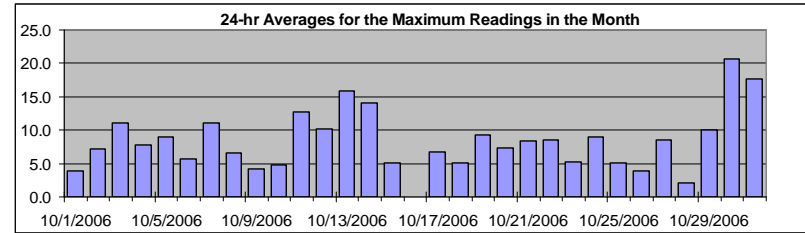
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	121.4	ppb	13-Oct	7:00 8:00
Maximum 24-hr Value:	20.7	ppb	30-Oct	



AIC Time:	32 hrs	Operational Time:	707 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	45.8	24.9	9.9	5.7	3.0	1.9	0.9	8.4 ppb	5.7 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Oct-06	1	2	2	2	A	4	6	15	1	2	2	22	2	2	2	3	2	2	3	3	3	4	4	2	3.9	22.2
2-Oct-06	3	3	4	3	A	9	9	10	16	14	12	12	3	2	2	2	2	8	22	11	6	6	4	4	7.2	22.3
3-Oct-06	3	4	3	4	A	7	21	12	28	28	11	8	3	9	10	4	4	7	9	35	7	16	13	10	11.1	34.7
4-Oct-06	7	6	8	6	A	10	7	9	12	28	5	3	5	5	3	9	3	4	7	10	7	6	11	8	7.7	28.3
5-Oct-06	5	23	23	15	A	5	36	22	9	8	4	5	4	5	4	6	5	5	3	4	3	5	3	6	9.0	35.6
6-Oct-06	4	2	3	2	A	6	7	7	15	12	15	7	3	3	2	2	3	5	5	5	4	4	11	5.7	15.3	
7-Oct-06	7	6	8	2	A	7	11	35	15	8	8	3	1	2	1	1	3	1	3	4	33	53	19	25	11.0	52.8
8-Oct-06	12	8	6	6	A	7	10	7	12	11	11	7	5	1	1	1	1	7	11	5	5	8	7	5	6.6	12.3
9-Oct-06	5	4	3	3	A	4	3	4	8	4	7	6	2	2	2	3	2	2	6	5	6	7	7	4	4.2	8.3
10-Oct-06	2	2	2	2	A	8	7	18	17	10	4	2	2	4	2	3	3	5	3	2	4	2	4	4	4.9	18.0
11-Oct-06	3	2	6	10	A	6	5	6	7	12	12	9	9	12	18	17	16	16	40	33	12	14	13	17	12.8	40.4
12-Oct-06	23	22	15	7	A	11	5	6	9	8	7	6	4	4	3	4	3	16	23	22	7	9	12	9	10.1	23.0
13-Oct-06	7	10	6	8	A	6	6	121	22	72	29	15	11	8	5	4	5	5	7	3	4	4	3	4	15.9	121.4
14-Oct-06	3	3	3	6	A	8	17	39	19	13	12	14	17	16	14	18	23	21	18	14	12	18	10	9	14.1	39.4
15-Oct-06	8	9	9	9	A	16	11	5	3	4	3	4	5	2	2	2	3	3	3	4	3	3	3	3	5.0	15.7
16-Oct-06	2	1	1	1	A	1	1	2	18	1	C	C	C	C	C	A	2	2	8	5	3	2	2	2	N	17.9
17-Oct-06	2	3	6	10	A	10	16	22	7	6	6	8	8	8	4	5	10	6	3	3	3	4	4	4	6.8	22.1
18-Oct-06	3	4	4	6	A	6	8	7	11	4	2	2	3	3	4	6	5	6	6	4	12	4	4	2	5.1	11.6
19-Oct-06	4	6	5	6	A	6	13	10	33	18	33	32	9	10	3	3	3	3	4	5	3	3	2	1	9.3	33.4
20-Oct-06	1	2	3	3	A	4	5	6	23	26	10	7	5	3	2	2	10	15	9	12	14	3	2	3	7.3	25.6
21-Oct-06	4	5	6	6	A	19	15	9	10	12	15	10	6	6	6	5	6	8	4	7	7	8	7	16	8.4	19.0
22-Oct-06	7	6	5	8	A	13	12	20	11	15	13	9	9	7	10	9	14	14	2	3	2	3	4	3	8.6	20.3
23-Oct-06	4	2	2	2	A	6	7	8	6	8	3	3	4	7	14	18	5	5	4	5	4	2	3	2	5.3	17.7
24-Oct-06	6	4	3	6	A	12	22	27	13	10	13	10	20	5	4	2	6	5	5	4	4	5	16	8	9.0	27.0
25-Oct-06	7	3	7	7	A	3	4	6	10	12	6	4	3	5	3	4	3	5	6	8	6	2	3	1	5.1	11.9
26-Oct-06	2	1	2	3	A	3	3	7	6	6	3	4	2	3	2	2	4	5	8	8	6	3	4	3	3.8	7.8
27-Oct-06	3	4	3	2	A	3	12	10	15	26	25	21	13	7	5	3	6	5	7	16	4	6	1	1	8.5	26.0
28-Oct-06	1	2	1	1	A	2	3	3	1	2	2	2	4	2	4	3	2	1	3	3	3	2	1	2	2.1	3.9
29-Oct-06	2	1	1	2	A	6	10	8	7	9	6	6	5	5	8	7	5	82	21	6	6	13	7	10	10.1	81.8
30-Oct-06	4	5	5	5	A	4	43	17	9	31	20	26	20	12	34	31	61	58	38	13	15	12	6	6	20.7	61.1
31-Oct-06	6	10	9	3	A	4	4	19	39	43	20	17	4	12	5	5	16	9	46	31	47	29	15	12	17.7	47.0
Hourly Avg	4.8	5.2	5.2	5.0	N	6.8	10.8	16.1	13.3	14.9	10.6	9.4	6.3	5.6	5.9	6.1	7.6	10.8	10.8	9.3	8.2	8.4	6.3	6.3		
Hourly Max	23.0	22.6	23.0	15.0	0.0	19.0	42.9	121.4	39.2	72.2	32.5	31.8	20.0	16.0	34.0	31.3	61.1	81.8	46.0	34.7	47.0	52.8	19.0	24.8		

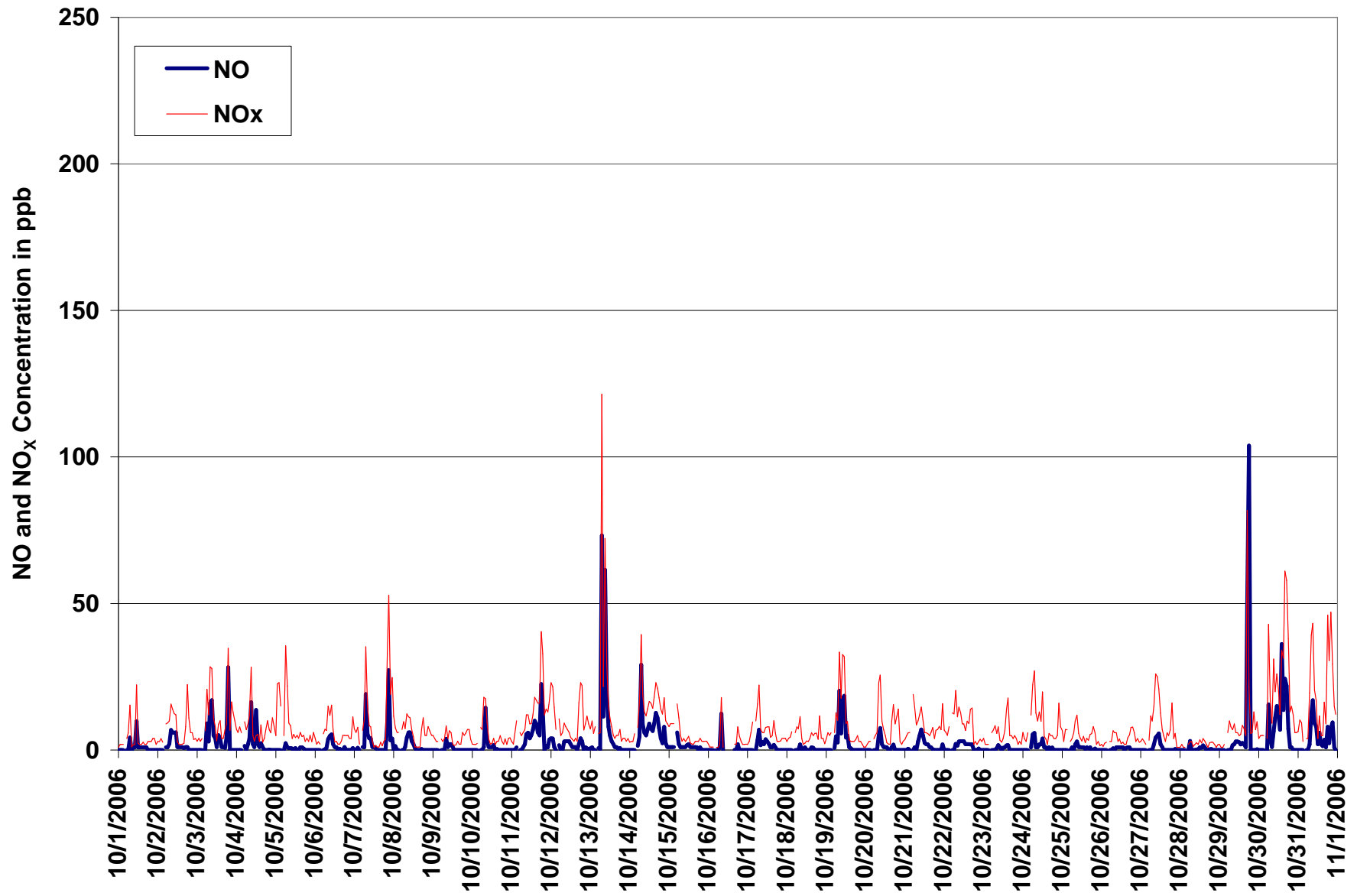


Figure 39. PASZA - Beaverlodge Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Beaverlodge - Ozone Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

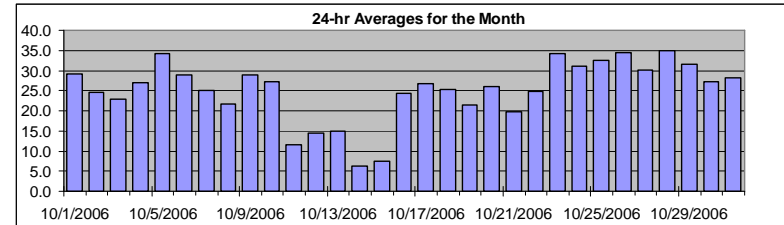
Ozone (O₃)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Summary

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	40.7 ppb	22-Oct	19:00 20:00
Maximum 24-hr Average:	35.1 ppb	28-Oct	



AIC Time:	32 hrs	Operational Time:	709 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	38.8	37.5	32.5	26.9	19.0	7.2	0.5	25.1 ppb	26.9 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum
1-Oct-06	31	30	29	28	A	28	25	26	29	30	31	32	32	32	32	32	31	30	29	27	27	27	26	25	29.2	32.4
2-Oct-06	23	22	20	23	A	18	18	15	14	17	20	25	30	33	34	34	34	31	23	26	29	26	26	23	24.5	34.4
3-Oct-06	21	20	20	19	A	16	14	11	8	12	19	22	26	31	31	34	33	32	28	30	29	27	22	21	22.9	34.2
4-Oct-06	19	17	15	16	A	16	16	15	17	19	26	30	31	34	36	36	37	36	35	33	34	35	33	35	27.0	37.4
5-Oct-06	36	26	21	26	A	38	29	34	39	37	39	39	38	38	38	38	38	36	36	35	34	31	32	33	34.3	38.9
6-Oct-06	32	30	27	26	A	23	22	24	19	19	21	28	30	35	37	38	36	36	33	34	30	29	29	27	28.9	37.7
7-Oct-06	27	25	23	22	A	18	18	14	14	19	24	29	31	33	34	34	33	33	31	31	30	18	18	16	25.0	34.2
8-Oct-06	16	18	20	17	A	15	14	14	14	17	23	24	28	31	32	32	29	25	25	26	24	23	21	21	21.8	32.1
9-Oct-06	20	20	20	21	A	21	23	25	25	28	30	34	38	39	39	38	38	34	32	31	28	29	26	27	28.9	39.0
10-Oct-06	29	27	25	24	A	23	24	17	21	24	29	31	32	33	34	33	31	30	28	29	27	26	24	23	27.1	34.1
11-Oct-06	22	20	17	12	A	12	13	12	12	11	11	12	14	14	13	13	11	9	4	6	8	7	6	4	11.5	21.8
12-Oct-06	1	3	13	16	A	16	20	16	13	14	16	19	23	25	24	24	24	12	3	7	15	11	10	10	14.5	24.7
13-Oct-06	12	11	12	11	A	13	12	7	9	5	7	10	16	20	25	26	24	21	21	19	16	15	15	17	15.0	25.5
14-Oct-06	19	19	20	16	A	12	7	5	4	4	5	6	6	5	5	4	1	1	0	0	1	1	1	1	6.3	20.1
15-Oct-06	1	0	0	0	A	0	2	5	7	7	8	9	10	10	11	11	11	11	10	11	12	12	11	12	7.4	12.2
16-Oct-06	19	19	20	21	A	22	23	23	23	23	23	24	24	26	27	28	C	C	C	A	28	29	30	29	24.3	30.0
17-Oct-06	30	29	28	23	A	15	9	9	17	19	19	21	26	32	37	36	34	33	37	36	35	33	30	29	26.8	37.1
18-Oct-06	30	27	24	23	A	27	18	17	22	31	32	31	31	31	29	28	27	24	22	27	17	21	21	22	25.2	31.6
19-Oct-06	22	19	16	13	A	12	12	13	7	10	12	9	13	23	34	33	32	32	32	28	29	30	29	29	21.3	34.4
20-Oct-06	29	27	24	23	A	28	25	24	22	22	26	30	32	34	33	31	26	25	23	19	19	26	26	25	26.0	34.3
21-Oct-06	21	22	22	18	A	17	12	16	15	13	15	16	19	23	26	27	26	23	25	23	21	18	20	17	19.8	27.5
22-Oct-06	20	20	22	21	A	18	19	18	21	18	14	17	27	28	22	20	22	27	39	41	40	36	33	30	24.8	40.7
23-Oct-06	30	27	31	34	A	35	34	34	36	35	37	38	38	36	34	30	34	38	36	32	33	34	36	36	34.3	38.0
24-Oct-06	33	34	37	37	A	31	29	14	26	32	27	30	33	37	37	38	36	34	32	31	30	29	24	27	31.2	38.1
25-Oct-06	30	29	28	27	A	32	32	32	30	25	33	36	37	35	36	36	37	34	33	31	33	36	34	34	32.6	36.7
26-Oct-06	34	36	34	33	A	34	36	34	36	37	38	39	38	39	38	38	37	36	33	28	26	28	29	30	34.4	38.5
27-Oct-06	31	33	33	33	A	31	28	25	22	18	14	20	24	30	38	38	36	35	32	26	33	36	39	39	30.0	39.2
28-Oct-06	39	38	37	38	A	37	36	34	34	36	39	38	37	34	33	34	32	33	32	32	32	31	35	35	35.1	38.8
29-Oct-06	33	34	34	33	A	30	26	27	28	29	30	31	33	35	37	37	36	34	33	33	32	28	28	27	31.6	36.7
30-Oct-06	29	27	27	27	A	29	27	28	28	29	28	26	29	31	33	26	20	18	23	28	28	26	29	28	27.1	32.8
31-Oct-06	28	26	27	29	A	28	29	26	22	24	28	30	32	33	35	35	33	33	33	22	21	25	28	29	28.2	35.2
Hourly Avg	24.7	23.7	23.4	22.8	N	22.4	21.0	19.8	20.4	21.3	23.2	25.2	27.5	29.6	30.8	30.3	29.4	28.0	26.5	26.0	25.9	25.3	24.9	24.6		
Hourly Max	38.8	38.2	37.1	37.5	0.0	37.5	36.0	34.5	38.9	36.6	38.7	38.6	38.3	38.8	39.0	38.1	38.1	37.7	39.1	40.7	40.1	35.9	38.7	39.2		

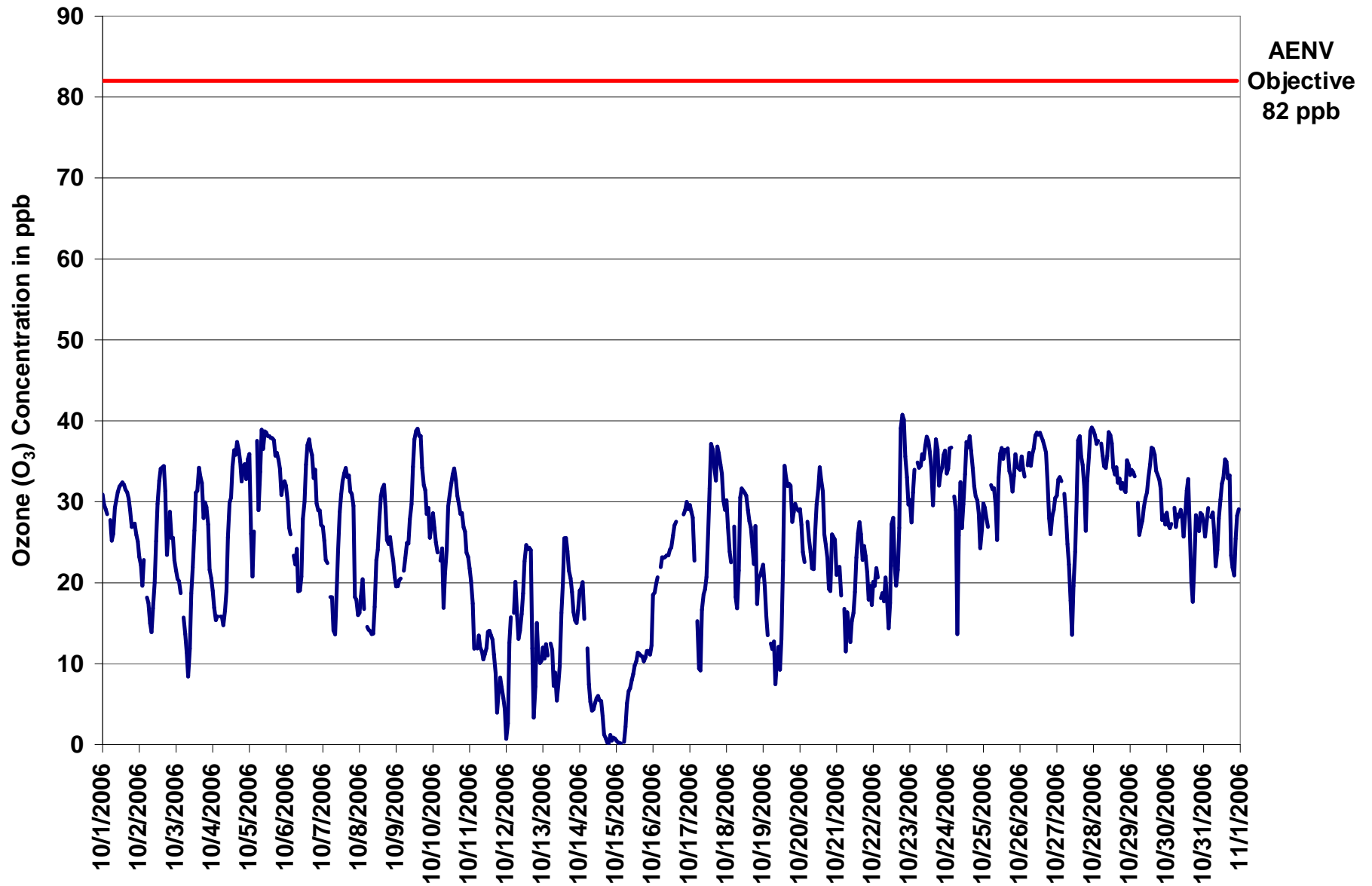


Figure 40. PASZA - Beaverlodge Ozone 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

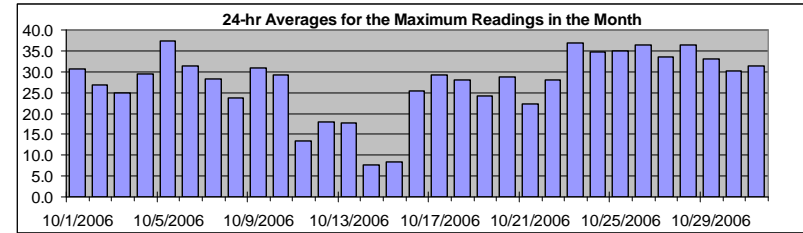
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	43.3	ppb	22-Oct	20:00 21:00
Maximum 24-hr Value:	37.5	ppb	5-Oct	



AIC Time:	32 hrs	Operational Time:	709 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	40.6	39.2	34.7	29.7	21.7	10.3	1.3	27.5 ppb	29.7 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Oct-06	32	31	30	31	A	29	27	29	31	32	32	33	33	35	33	33	33	31	28	29	28	27	26	30.7	34.6	
2-Oct-06	25	24	23	25	A	19	19	19	17	19	22	28	32	34	36	36	36	35	27	28	30	29	28	26	26.8	35.5
3-Oct-06	22	21	21	20	A	17	16	13	10	15	21	26	30	34	35	36	34	35	31	31	30	30	24	24	25.0	35.5
4-Oct-06	22	18	17	17	A	17	17	17	21	25	29	31	31	37	38	38	39	39	38	36	37	37	38	40	29.4	40.1
5-Oct-06	39	34	27	30	A	40	40	41	43	40	41	41	40	40	40	40	39	38	37	37	36	33	33	34	37.5	42.7
6-Oct-06	33	32	28	27	A	26	24	26	23	25	24	30	33	36	39	39	40	38	36	39	32	30	30	30	31.3	40.2
7-Oct-06	28	29	26	26	A	20	21	21	18	21	29	30	32	34	34	35	34	34	33	32	32	32	27	24	28.4	34.9
8-Oct-06	21	20	22	20	A	15	15	15	15	16	20	27	28	30	32	32	33	32	29	26	27	26	25	22	23.8	32.9
9-Oct-06	21	21	21	22	A	22	24	27	29	31	31	38	39	40	40	40	40	37	34	33	32	31	28	30	30.9	40.2
10-Oct-06	30	27	27	26	A	27	26	23	26	27	31	32	33	34	35	35	33	31	30	29	29	28	26	26	29.2	34.9
11-Oct-06	23	22	20	16	A	14	15	13	13	14	12	14	15	15	15	17	13	11	8	8	9	10	7	7	13.5	23.1
12-Oct-06	3	13	19	19	A	21	22	18	15	16	19	22	25	27	25	26	26	21	8	14	17	16	12	12	18.1	26.9
13-Oct-06	17	15	15	14	A	13	12	12	14	12	10	13	19	25	27	27	27	23	22	21	18	16	16	19	17.7	27.4
14-Oct-06	20	21	21	19	A	14	12	10	5	6	6	6	7	7	7	5	2	1	1	1	2	2	1	1	7.8	21.2
15-Oct-06	1	1	0	0	A	2	3	6	7	8	8	10	11	11	12	12	12	12	11	12	12	12	15	8.3	15.3	
16-Oct-06	19	19	21	22	A	23	24	24	24	24	24	25	25	26	28	29	C	C	C	A	33	31	32	31	25.5	32.9
17-Oct-06	31	31	30	25	A	19	14	15	19	20	20	25	28	38	39	39	37	35	39	38	36	35	32	30	29.3	39.2
18-Oct-06	31	31	30	27	A	29	24	20	30	32	32	33	32	32	30	29	29	26	26	29	25	22	22	23	28.0	32.8
19-Oct-06	23	21	19	15	A	14	13	14	11	15	17	12	17	35	36	37	33	34	35	30	31	31	30	30	24.1	37.3
20-Oct-06	30	30	26	25	A	30	27	26	27	27	28	33	34	35	34	33	31	28	27	23	26	27	26	26	28.6	35.2
21-Oct-06	25	24	24	21	A	21	17	18	16	16	17	17	21	26	29	29	28	24	26	26	23	21	22	22	22.3	29.2
22-Oct-06	22	20	24	24	A	20	21	21	23	22	18	22	32	30	28	23	26	39	41	42	43	37	34	31	28.1	43.3
23-Oct-06	32	30	33	35	A	38	37	38	39	39	39	39	39	39	38	36	37	40	38	35	36	36	37	38	36.9	39.7
24-Oct-06	36	36	38	39	A	34	36	20	35	39	31	33	41	41	40	40	38	37	34	32	32	30	29	28	34.7	40.7
25-Oct-06	32	30	31	31	A	34	34	33	33	31	36	38	38	37	38	38	39	36	36	35	36	37	36	36	35.0	38.6
26-Oct-06	38	36	36	35	A	36	38	37	39	38	40	40	40	40	39	39	38	38	36	33	29	30	33	32	36.4	40.2
27-Oct-06	34	35	34	34	A	34	33	30	26	22	16	26	31	38	40	40	38	37	36	32	35	38	40	40	33.4	40.0
28-Oct-06	40	39	38	39	A	38	37	36	35	38	39	39	38	37	36	36	33	33	33	35	34	33	36	36	36.5	39.7
29-Oct-06	34	34	35	34	A	33	30	29	29	31	31	32	35	36	38	38	37	35	36	34	33	32	30	29	33.1	37.6
30-Oct-06	29	28	28	29	A	30	30	30	30	30	30	27	31	34	35	34	26	27	33	33	31	29	30	29	30.1	34.8
31-Oct-06	29	28	29	30	A	29	30	30	28	30	29	32	33	35	36	36	35	35	35	31	31	31	33	31	31.5	36.2
Hourly Avg	26.5	25.9	25.5	24.9	N	24.4	23.8	22.9	23.5	24.4	25.3	27.6	29.8	32.2	32.6	32.5	31.5	30.9	29.5	28.7	28.6	27.8	27.0	26.7		
Hourly Max	39.7	39.2	38.1	39.0	0.0	40.1	39.6	40.6	42.7	40.1	40.6	40.9	40.7	40.6	40.1	40.1	40.2	39.7	41.3	42.4	43.3	38.4	39.7	40.1		

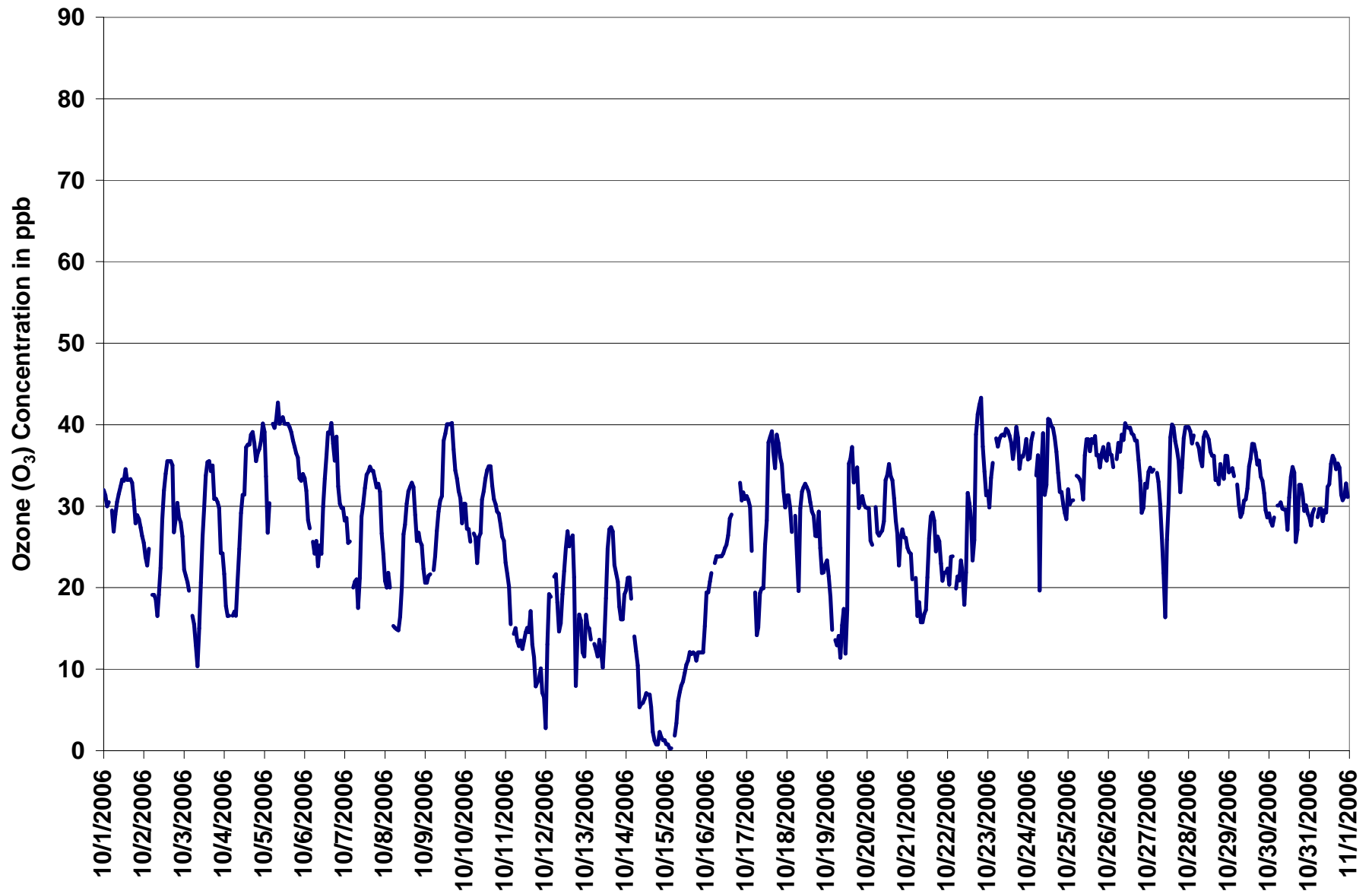
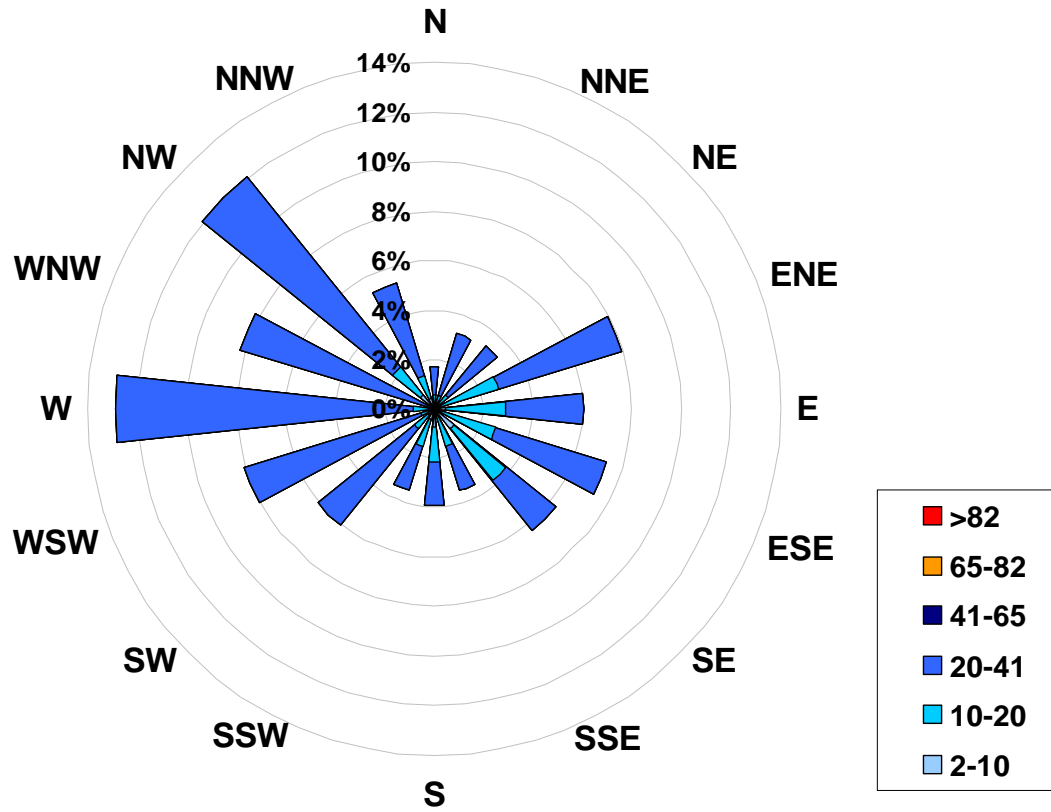


Figure 41. PASZA - Beaverlodge Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 1%

Frequency Distribution of O ₃ in ppb			
Range			Frequency (hrs)
2.0	<	10	51
10	to	20	144
20	to	41	514
41	to	65	0
65	to	82	0
	>	82	0
Total Non-Zero Values			709

PASZA - Beaverlodge - Ozone Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

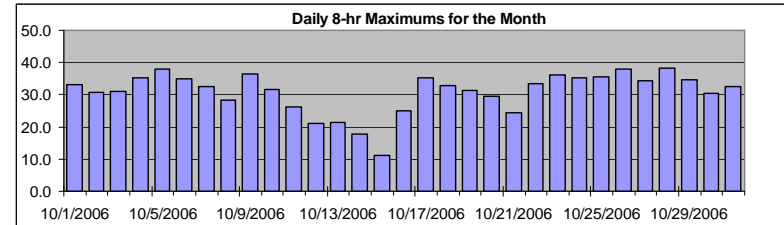
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	38.1	ppb	28-Oct	5:00	6:00		



Percentile	99	95	75	50	25	5	1
	37.7	35.7	31.4	27.0	19.6	8.8	0.8

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	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-Oct-06	33	33	32	31	31	30	29	28	28	28	28	29	29	30	31	31	32	32	31	31	30	29	29	28		33.2
2-Oct-06	27	26	25	24	24	22	21	20	18	18	18	18	20	21	23	26	28	30	31	31	31	30	29	27		30.8
3-Oct-06	26	24	24	23	22	21	19	17	16	14	14	15	16	18	20	23	26	29	30	31	31	31	29	28		31.2
4-Oct-06	26	24	22	21	19	18	17	16	16	16	18	20	21	23	26	29	31	33	34	35	35	35	35	35		35.3
5-Oct-06	35	33	32	31	30	31	30	30	30	32	34	36	36	36	38	38	38	38	37	37	37	36	35	34		38.1
6-Oct-06	34	33	32	31	30	29	28	26	24	23	22	22	23	25	27	28	30	33	34	35	35	34	33	32		34.8
7-Oct-06	31	29	28	27	26	25	23	21	19	18	18	19	21	23	25	27	29	31	32	32	32	31	29	26		32.5
8-Oct-06	24	22	21	19	18	17	17	16	16	15	15	16	17	18	21	23	25	27	28	28	28	28	27	26		28.4
9-Oct-06	24	23	22	22	21	21	21	21	22	23	25	27	28	30	32	34	35	36	37	36	35	34	32	31		36.5
10-Oct-06	30	29	28	27	27	26	25	24	23	23	23	24	25	27	28	30	31	32	32	31	31	30	28	27		31.7
11-Oct-06	26	25	24	21	21	19	17	16	14	13	12	12	12	12	12	12	12	12	11	11	10	9	8	7		26.1
12-Oct-06	6	5	6	7	7	8	10	12	14	15	16	16	17	18	19	20	21	21	19	18	17	15	13	12		21.1
13-Oct-06	10	10	11	12	11	11	12	11	11	10	9	9	10	11	13	15	17	19	20	21	22	21	20	19		21.5
14-Oct-06	18	18	18	17	17	17	16	14	12	10	8	6	6	5	5	5	5	4	4	3	2	2	1	1		17.9
15-Oct-06	1	1	1	1	0	0	1	1	2	3	4	5	6	7	8	9	10	10	10	11	11	11	11	11		11.2
16-Oct-06	12	13	14	16	16	18	19	21	22	22	23	23	23	24	24	25	25	N	N	N	N	N	N	N		25.1
17-Oct-06	N	N	29	28	28	26	23	20	19	17	16	16	17	19	22	26	28	30	32	34	35	35	34	33		35.2
18-Oct-06	33	32	31	29	28	27	25	24	22	23	24	25	26	26	28	29	30	29	28	27	26	24	23	23		32.9
19-Oct-06	22	21	21	19	19	18	17	15	13	12	11	11	11	12	15	18	21	24	26	28	30	31	31	30		31.2
20-Oct-06	30	29	28	27	27	27	26	26	25	24	24	25	26	27	28	29	29	30	29	28	26	25	24	24		29.7
21-Oct-06	23	23	22	22	23	22	20	18	17	16	15	15	15	16	18	19	21	22	23	24	24	24	23	22		24.3
22-Oct-06	21	20	20	20	20	20	19	20	20	19	18	18	19	20	21	21	21	22	25	28	30	31	32	33		33.3
23-Oct-06	34	34	33	33	32	31	32	32	33	34	35	36	36	36	36	35	35	35	35	35	35	34	34	35		36.1
24-Oct-06	35	34	35	35	35	35	34	31	30	29	28	27	28	29	29	33	34	34	35	35	34	33	32	30		35.3
25-Oct-06	30	29	28	28	28	28	29	30	30	29	30	31	32	32	33	34	34	35	36	35	34	35	34	34		35.5
26-Oct-06	34	34	34	34	34	34	34	35	35	35	36	36	37	37	37	38	38	38	37	36	34	33	32	31		37.8
27-Oct-06	30	30	30	30	31	31	31	30	29	27	24	22	23	22	24	25	27	29	31	32	33	34	34	34		34.3
28-Oct-06	35	35	36	37	38	38	38	37	36	36	36	36	36	36	36	36	35	35	34	34	33	32	33	33		38.1
29-Oct-06	33	33	33	33	34	33	32	31	30	30	29	29	29	30	31	32	33	34	34	35	34	34	32	31		34.6
30-Oct-06	30	30	29	28	28	28	28	28	28	28	28	28	28	28	29	29	28	26	26	26	26	25	25	25		30.4
31-Oct-06	26	27	28	28	28	28	28	28	27	27	27	27	27	28	29	30	31	32	32	31	29	28	28	27		32.5

Hourly Max 34.9 35.2 35.8 37.2 37.9 38.1 37.7 37.0 36.3 36.0 36.2 36.3 36.6 37.1 37.6 38.1 37.9 37.8 37.5 37.1 36.6 35.6 35.0 35.0

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

Station: Beaverlodge
 Station Owner: PASZA

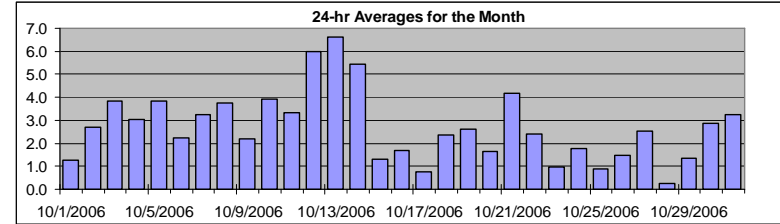
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2006 to November 1, 2006

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:	16.0 µg/m ³ 16-Oct 18:00 19:00
Maximum 24-hr Value:	6.6 µg/m ³ 13-Oct



AIC Time:	0 hrs	Operational Time:	728 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	97.8%
Percentile	99	95	75
	11.1	7.9	3.9
	2.1	0.7	0.0
	0.0	0.0	0.0
	Average / Median		2.7
	2 µg/m ³		2.3 µg/m ³

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
	Hour Start	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-Oct-06	0	1	1	1	1	2	0	2	0	2	1	0	1	0	0	2	3	3	1	0	2	2	3	2	1.3	2.7
2-Oct-06	2	2	2	2	2	2	3	3	3	2	2	0	D	0	0	0	0	2	9	9	6	3	3	4	2.7	9.3
3-Oct-06	4	4	4	3	3	3	3	4	7	5	5	1	0	0	0	1	1	16	11	7	0	4	7	3.9	15.9	
4-Oct-06	3	6	5	4	3	3	2	3	5	3	0	0	D	D	D	0	1	1	2	3	4	3	6	4	3.0	6.1
5-Oct-06	4	4	3	4	2	4	6	10	3	7	8	6	5	4	3	3	1	3	3	2	3	3	1	0	3.8	10.5
6-Oct-06	1	1	1	2	1	1	2	3	3	7	2	2	2	0	0	2	4	5	6	1	3	2	2	2	2.2	6.5
7-Oct-06	2	2	1	2	2	1	1	2	4	7	0	0	1	0	D	D	5	3	4	6	2	9	7	10	3.2	9.5
8-Oct-06	8	8	4	5	0	4	1	0	3	8	5	8	1	0	0	0	0	3	5	8	7	4	4	5	3.8	8.2
9-Oct-06	4	3	2	2	2	1	2	1	0	2	0	0	0	0	D	1	3	4	6	5	5	5	2	2	2.2	5.6
10-Oct-06	2	3	3	3	3	2	D	5	6	12	2	0	3	2	3	2	6	7	7	8	6	3	2	1	3.9	12.2
11-Oct-06	1	0	1	0	1	0	0	0	1	0	0	0	3	2	3	2	6	7	10	10	9	7	8	8	3.3	10.3
12-Oct-06	7	6	4	3	3	4	3	5	7	7	8	6	2	0	1	3	4	9	12	11	12	9	8	7	6.0	12.3
13-Oct-06	6	8	6	7	6	5	6	7	6	11	9	9	5	1	0	4	5	10	10	7	9	10	7	6	6.6	10.9
14-Oct-06	5	3	3	5	6	4	5	6	6	7	7	7	8	7	6	5	7	7	7	7	4	3	3	2	5.5	8.2
15-Oct-06	1	1	1	3	3	2	2	0	0	0	0	0	0	0	1	0	0	2	1	2	3	3	3	2	1.3	3.0
16-Oct-06	0	1	0	0	1	0	1	0	1	0	D	D	D	0	2	0	0	1	16	8	2	0	0	1	1.7	16.0
17-Oct-06	0	0	0	0	0	0	0	0	3	0	1	1	1	0	D	0	0	3	1	2	1	2	1	2	0.8	3.2
18-Oct-06	2	3	3	4	5	1	2	1	1	1	0	0	1	0	0	3	2	4	3	1	4	5	5	5	2.4	5.4
19-Oct-06	5	4	4	4	4	4	3	3	3	3	1	2	3	D	1	2	3	1	6	1	2	2	0	1	2.6	6.2
20-Oct-06	1	3	2	0	1	0	1	1	1	1	0	0	0	2	0	0	3	4	4	3	2	2	6	4	1.6	5.6
21-Oct-06	6	6	7	7	5	6	6	6	5	4	5	4	2	3	1	0	2	4	3	2	4	4	4	4	4.2	6.8
22-Oct-06	3	3	3	3	3	1	3	2	2	1	2	2	2	0	2	3	3	0	0	5	6	5	3	2	2.4	5.9
23-Oct-06	4	3	1	1	2	1	3	2	2	1	1	0	D	0	0	0	0	0	1	0	0	0	0	0	1.0	3.9
24-Oct-06	0	0	1	1	2	12	3	3	3	1	2	0	0	1	0	0	1	1	3	1	1	1	3	3	1.8	12.4
25-Oct-06	2	1	2	2	2	0	1	3	1	2	0	0	0	0	0	0	0	0	1	1	0	2	2	1	0.9	3.2
26-Oct-06	3	0	0	0	0	0	0	2	1	2	0	2	2	1	0	2	1	4	4	2	3	2	3	2	1.5	4.2
27-Oct-06	2	6	3	2	4	3	3	4	3	3	4	2	1	2	5	3	4	1	2	2	1	0	0	0	2.5	5.8
28-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	2	0	0.3	1.7
29-Oct-06	0	1	0	1	0	1	0	0	0	2	3	3	5	3	3	1	2	1	0	2	1	1	2	0	1.3	4.8
30-Oct-06	1	0	0	D	D	6	0	0	10	13	8	2	2	2	0	3	2	2	1	2	2	2	3	3	2.9	13.0
31-Oct-06	3	4	3	3	2	4	3	3	5	4	6	7	4	3	3	2	1	0	2	5	3	4	3	3	3.2	6.6
Hourly Avg	2.6	2.8	2.3	2.4	2.3	2.6	2.2	2.7	3.0	3.8	2.7	2.1	2.0	1.2	1.3	1.4	2.3	3.0	4.8	4.1	3.6	3.2	3.2	2.9		
Hourly Max	8.1	7.9	6.8	6.6	5.8	12.4	6.0	10.5	9.5	13.0	9.2	8.6	8.2	7.4	6.2	5.2	7.5	10.5	16.0	11.2	11.7	9.7	8.3	9.5		

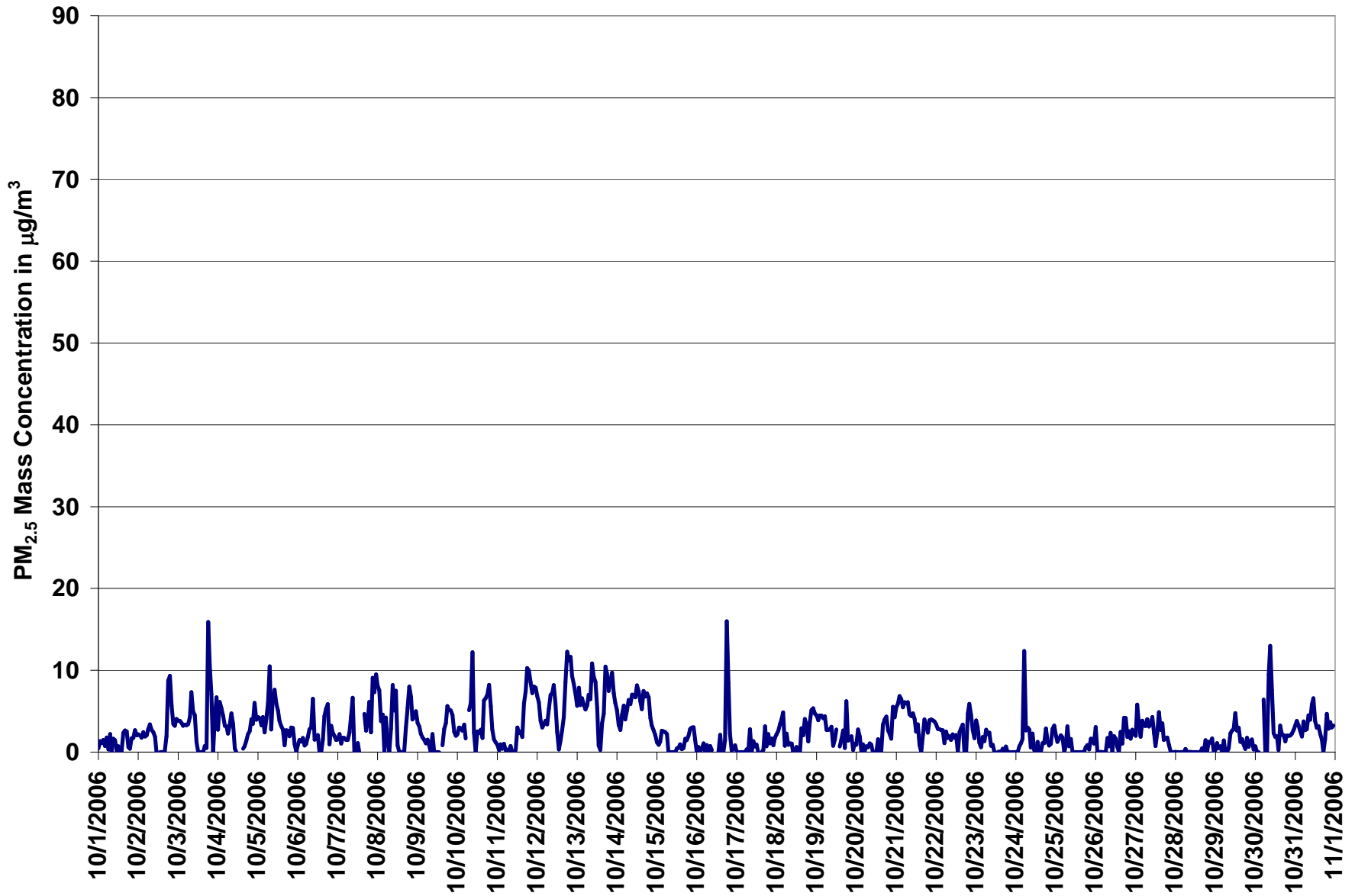


Figure 42. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

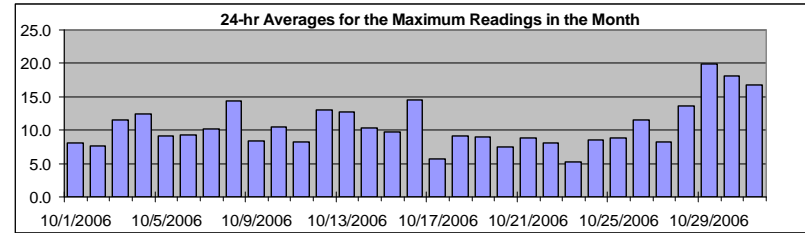
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	44.1	µg/m ³	24-Oct	5:00 6:00
Maximum 24-hr Value:	19.9	µg/m ³	29-Oct	

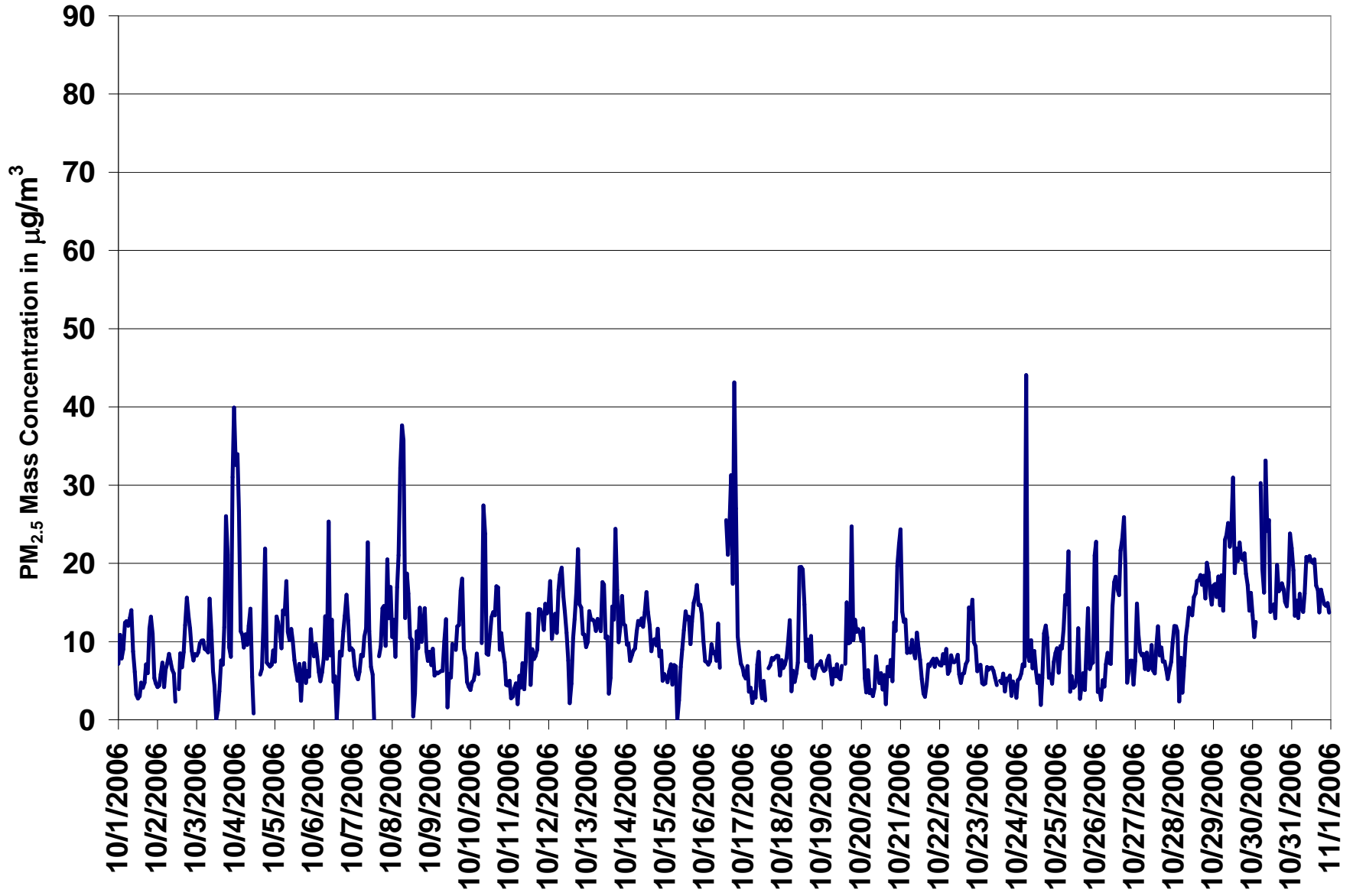


AIC Time:	0 hrs	Operational Time:	728 hrs							
Calibration Time:	0 hrs	AMD Operational Uptime:	97.8%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	32.5	22.4	13.6	8.9	6.3	3.5	1.7	10.6	9 µg/m ³	10.1 µg/m ³

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Oct-06	7	11	8	9	12	13	12	13	14	9	6	3	3	5	4	5	7	6	12	13	11	5	5	8.1	14.0	
2-Oct-06	4	4	6	7	4	6	7	8	7	6	6	2	D	4	8	7	9	12	16	13	12	9	8	8	7.6	15.6
3-Oct-06	8	9	10	10	10	9	9	9	15	11	6	4	0	1	4	8	7	12	26	21	9	8	31	40	11.6	39.9
4-Oct-06	33	34	27	11	11	9	11	10	12	14	5	1	D	D	D	6	7	12	22	7	7	7	7	9	12.4	33.9
5-Oct-06	7	13	12	11	9	14	14	18	11	10	12	10	8	6	5	7	2	6	7	5	6	6	12	9	9.2	17.7
6-Oct-06	8	10	8	6	5	6	8	13	8	25	8	13	5	6	0	4	9	8	11	13	16	13	9	9	9.2	25.3
7-Oct-06	9	7	6	5	6	8	8	11	12	23	11	7	6	0	D	D	8	9	14	15	9	21	13	17	10.2	22.7
8-Oct-06	11	13	8	17	21	32	38	36	13	19	16	10	10	0	3	11	9	14	10	12	14	9	8	9	14.3	37.6
9-Oct-06	7	9	6	6	6	6	6	6	10	13	2	6	5	10	D	9	12	12	17	18	9	8	5	4	8.3	18.0
10-Oct-06	4	5	5	6	8	6	D	10	27	24	8	8	11	13	14	13	17	17	9	11	9	7	4	4	10.5	27.4
11-Oct-06	5	3	3	4	5	2	6	4	7	4	7	14	14	4	9	8	8	9	14	14	13	11	15	14	8.2	14.8
12-Oct-06	15	18	10	13	14	11	17	19	19	16	14	11	8	2	5	10	13	16	22	15	14	11	11	9	13.0	21.8
13-Oct-06	10	14	13	13	13	11	13	12	11	18	17	10	11	3	5	14	13	24	17	10	12	16	12	12	12.7	24.4
14-Oct-06	10	10	8	8	9	9	11	13	12	13	12	14	16	14	12	9	10	10	10	12	8	9	5	6	10.3	16.3
15-Oct-06	5	5	6	7	4	7	7	0	3	7	9	11	14	13	13	10	13	15	16	17	15	15	14	10	9.8	17.2
16-Oct-06	7	7	7	7	10	8	9	8	12	7	D	D	D	26	21	24	31	17	43	27	11	9	7	7	14.6	43.1
17-Oct-06	6	5	7	4	4	2	4	3	7	9	4	3	5	2	D	7	7	8	8	8	8	6	8	8	5.7	8.7
18-Oct-06	7	7	8	10	13	4	6	5	6	7	19	20	19	15	8	10	7	11	6	5	7	7	7	7	9.1	19.5
19-Oct-06	7	6	6	8	8	6	5	7	6	7	5	5	7	D	7	15	10	10	25	10	13	11	12	11	9.0	24.7
20-Oct-06	10	12	5	3	6	3	4	3	4	8	6	5	6	4	6	2	7	6	8	5	12	11	20	22	7.4	22.5
21-Oct-06	24	14	13	13	9	9	9	10	9	8	11	9	8	5	3	3	5	7	7	7	8	7	8	7	8.8	24.4
22-Oct-06	7	7	8	7	9	6	6	8	7	7	8	8	6	5	6	6	7	8	14	13	15	10	9	6	8.1	15.4
23-Oct-06	7	7	5	5	5	7	6	7	7	6	5	4	D	5	5	6	4	5	5	6	3	5	4	3	5.2	7.0
24-Oct-06	5	5	6	7	7	44	8	8	10	7	9	6	5	6	2	5	11	12	10	5	6	5	7	9	8.5	44.1
25-Oct-06	9	6	9	9	12	16	15	22	4	6	4	4	5	12	3	4	6	4	9	14	7	7	7	21	8.9	21.5
26-Oct-06	23	4	4	3	5	4	7	9	7	7	14	18	18	17	16	22	23	26	19	5	6	8	8	4	11.5	25.9
27-Oct-06	8	15	11	9	8	8	6	9	6	7	10	6	6	10	12	8	9	7	7	6	5	6	7	10	8.2	14.8
28-Oct-06	12	12	11	2	8	3	7	11	12	14	14	13	16	16	18	18	19	17	18	15	20	19	16	15	13.6	20.1
29-Oct-06	17	17	16	18	15	18	14	23	24	25	22	24	31	19	22	20	23	21	20	21	19	17	14	16	19.9	31.0
30-Oct-06	13	11	13	D	D	30	19	16	33	24	26	14	14	15	13	20	16	17	17	17	15	15	18	24	18.1	33.1
31-Oct-06	22	19	13	15	13	16	14	14	16	21	20	21	20	20	21	17	17	14	17	16	15	15	15	14	16.8	21.9
Hourly Avg	10.5	10.2	8.9	8.5	8.9	10.9	10.2	11.0	11.4	12.3	10.6	9.5	10.2	8.8	9.0	10.3	11.0	12.1	14.5	12.1	10.9	10.3	10.4	11.3		
Hourly Max	32.6	33.9	26.7	18.3	21.0	44.1	37.6	35.7	33.1	25.3	25.5	24.2	31.0	25.5	21.9	24.4	31.3	25.9	43.1	27.0	20.1	20.5	31.0	39.9		



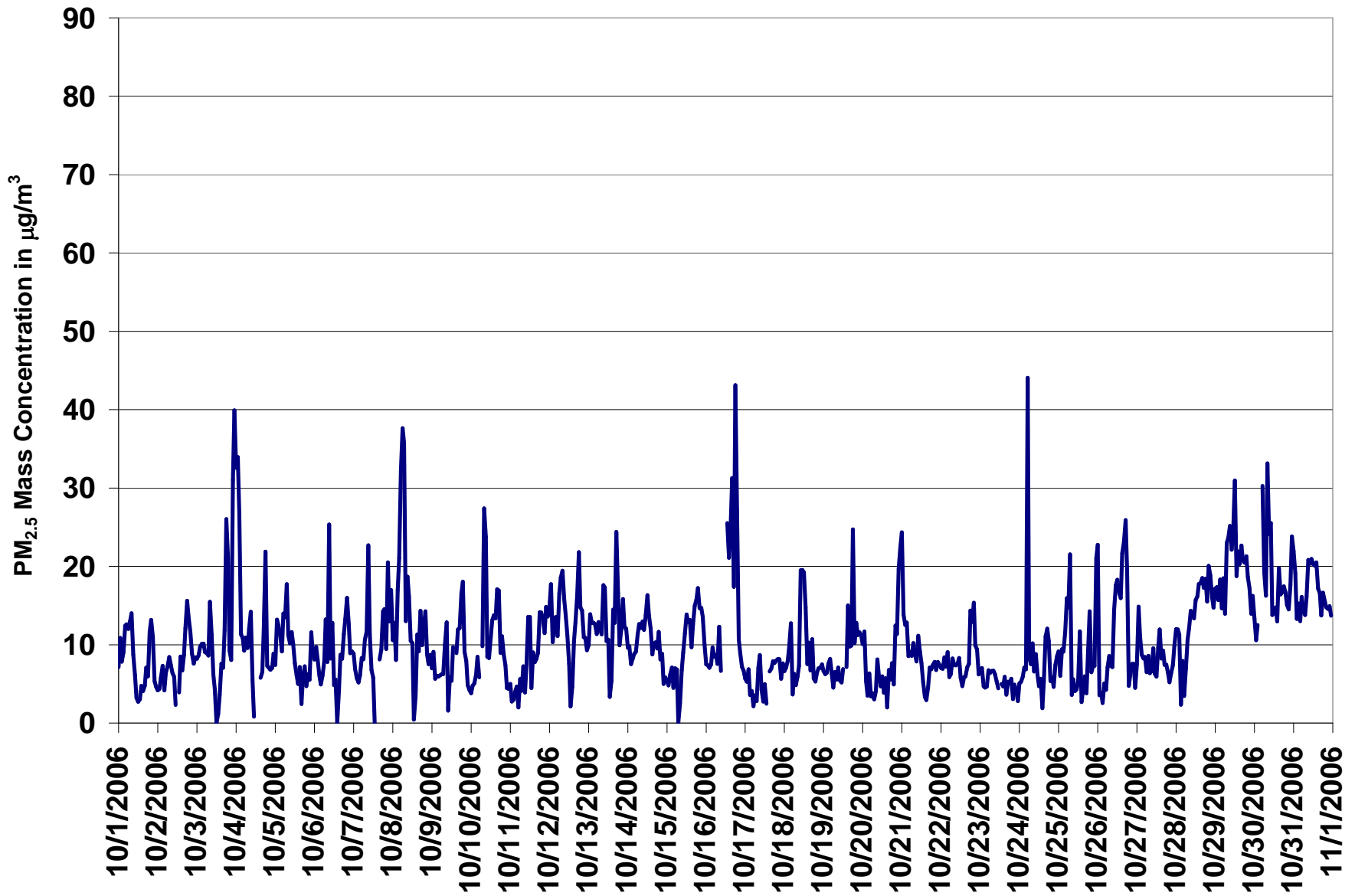
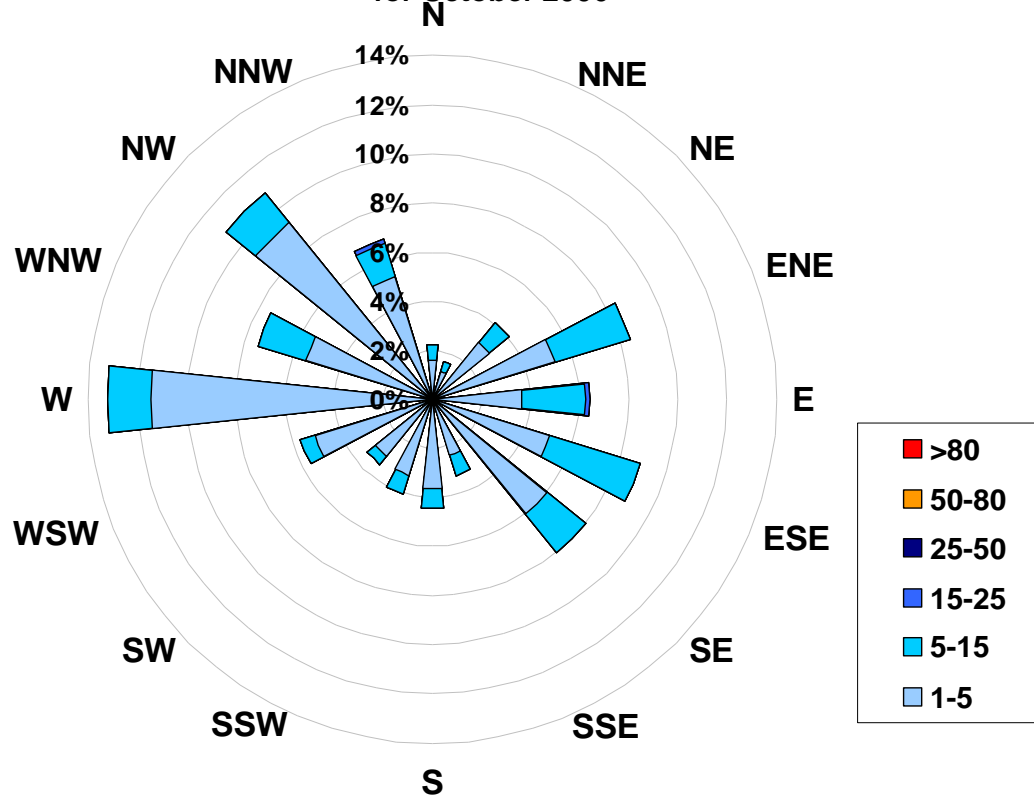


Figure 43. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 1%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	603
5	to	15	123
15	to	25	2
25	to	50	0
50	to	80	0
	>	80	0
Total Non-Zero Values			728

PASZA - Beaverlodge - Relative Humidity Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

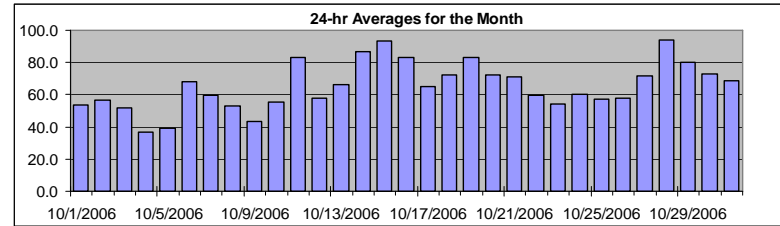
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	96.9 %	11-Oct	8:00 9:00
Maximum 24-hr Value:	94.0 %	28-Oct	



AIC Time:	0 hrs	Operational Time:	744 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%
Percentile	99	95	75
	96.5	95.3	83.6
	66.9	50.6	27.2
	18.8	5	1
	65.4 %	Average	Median
	66.9 %		

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start	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-Oct-06	65	67	68	68	61	64	66	63	51	44	38	34	33	37	48	36	39	43	49	56	62	63	67	69	53.7	69.0
2-Oct-06	74	80	84	80	86	89	88	84	74	68	58	46	36	31	27	27	27	29	34	39	41	48	55	62	56.9	88.6
3-Oct-06	72	74	78	84	87	87	89	84	74	60	49	40	32	24	19	19	20	22	27	31	35	40	47	52	51.9	89.3
4-Oct-06	61	64	68	69	70	70	67	65	55	46	31	22	18	12	9	10	11	15	17	19	19	20	19	20	36.6	70.3
5-Oct-06	21	23	24	25	22	22	25	26	26	27	30	34	39	43	44	46	48	51	52	55	59	66	69	70	39.4	69.6
6-Oct-06	71	73	84	85	82	84	84	82	82	74	66	53	46	39	38	40	45	56	71	68	75	80	81	80	68.3	85.1
7-Oct-06	83	87	92	94	95	95	89	89	80	61	49	37	32	30	29	29	31	32	39	41	43	50	56	61	59.3	95.3
8-Oct-06	67	67	71	76	77	78	81	82	72	59	49	41	37	31	28	26	27	30	35	42	43	47	53	59	53.2	81.8
9-Oct-06	64	66	66	66	66	67	63	57	46	37	29	23	21	21	21	24	28	30	34	37	40	41	45	48	43.3	66.8
10-Oct-06	51	55	56	58	59	57	52	54	49	43	39	37	35	32	31	36	49	56	68	75	79	81	86	89	55.3	88.9
11-Oct-06	93	93	95	96	97	97	97	97	97	97	97	95	76	67	58	53	59	62	70	77	79	81	82	80	83.0	96.9
12-Oct-06	78	77	66	62	63	62	55	61	65	61	54	47	41	41	42	43	44	51	57	60	62	67	68	68	58.1	78.0
13-Oct-06	70	72	72	73	76	75	80	82	79	75	68	59	51	51	44	45	47	54	62	65	70	73	76	75	66.3	81.7
14-Oct-06	74	76	75	81	85	86	87	88	87	87	86	82	80	84	86	89	90	92	93	95	95	95	96	96	86.8	95.9
15-Oct-06	96	96	96	96	96	96	94	93	93	93	92	90	89	89	90	89	90	91	93	94	94	94	96	96	93.3	96.2
16-Oct-06	92	91	90	88	89	89	88	87	87	85	80	77	79	76	76	79	78	78	78	79	85	84	80	81	83.2	91.9
17-Oct-06	80	79	82	89	93	95	95	94	84	72	68	64	60	53	42	39	42	46	44	46	47	48	53	53	65.3	95.3
18-Oct-06	53	59	64	67	91	95	96	94	86	70	62	58	57	55	56	58	58	63	75	73	82	87	87	87	72.2	95.8
19-Oct-06	87	89	91	94	94	93	91	86	87	89	90	90	85	65	53	61	59	62	85	91	88	87	86	86	82.9	93.8
20-Oct-06	87	90	91	91	89	88	87	85	81	78	73	65	58	48	48	50	57	60	68	74	67	64	68	69	72.4	91.4
21-Oct-06	79	79	78	83	87	87	91	91	85	79	71	67	62	56	50	49	54	62	62	61	65	69	68	72	71.1	91.3
22-Oct-06	72	73	69	70	70	69	67	69	65	66	69	61	48	50	58	58	51	45	31	37	48	56	62	71	59.7	72.8
23-Oct-06	67	73	65	60	61	54	53	53	47	46	42	43	44	46	48	50	51	47	52	60	60	61	59	59	54.1	73.2
24-Oct-06	60	58	54	53	60	60	62	75	66	64	65	61	50	50	49	43	45	52	62	71	73	72	70	67	60.0	75.4
25-Oct-06	69	72	66	64	58	55	58	60	59	59	46	40	39	45	43	44	48	56	59	60	61	67	69	68	56.9	72.2
26-Oct-06	82	84	81	81	75	69	61	66	57	49	45	39	36	33	33	35	37	41	49	59	68	70	67	66	57.7	84.1
27-Oct-06	64	57	56	57	62	59	60	64	65	66	65	61	56	50	48	65	88	95	96	96	96	96	96	96	71.5	96.4
28-Oct-06	96	96	96	96	96	96	96	96	96	95	94	93	93	92	93	92	93	93	93	93	92	92	90	91	94.0	96.5
29-Oct-06	85	84	86	84	83	85	89	90	89	83	82	75	67	68	63	67	70	74	78	80	81	83	87	87	80.1	90.0
30-Oct-06	87	86	87	90	90	89	88	88	85	78	68	57	55	47	46	47	60	70	70	72	74	73	72	73	73.0	90.3
31-Oct-06	74	77	77	78	77	79	79	80	79	71	61	55	54	52	47	48	56	67	69	73	71	75	77	73	68.7	80.3
Hourly Avg	73.3	74.8	75.1	76.1	77.3	77.1	76.7	76.9	72.5	67.2	61.8	56.4	51.9	48.9	47.3	48.3	51.7	55.7	60.4	63.8	66.3	68.7	70.6	71.8		
Hourly Max	96.3	96.5	96.5	96.4	96.6	96.7	96.8	96.8	96.9	96.7	96.8	95.3	93.0	92.3	92.6	92.4	92.8	95.4	96.4	96.4	96.4	96.2	96.3	96.3		

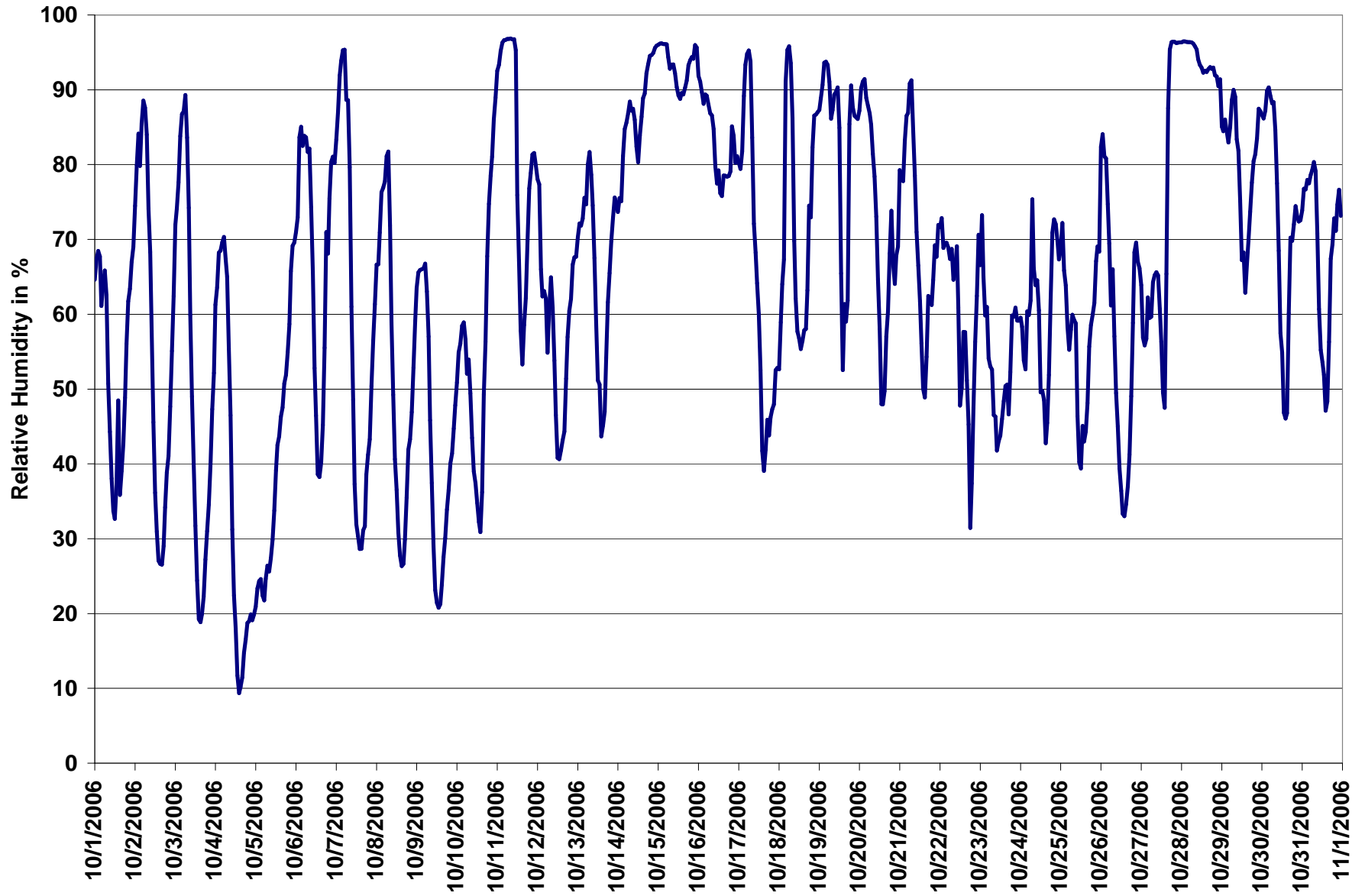


Figure 44. PASZA - Beaverlodge Relative Humidity 1-hr Average Monthly Trend

PASZA - Beaverlodge - Temperature Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

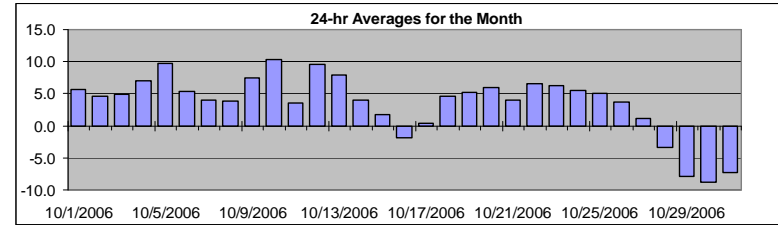
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	20.0 °C	10-Oct	14:00 15:00
Maximum 24-hr Value:	10.3 °C	10-Oct	



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
	16.7	12.4	7.9	3.9	-0.5	-7.8	-11.5	3.5 °C	3.9 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Oct-06	4	3	3	3	4	3	2	3	6	8	9	10	10	10	9	10	9	8	6	4	3	3	2	2		5.7	10.2	
2-Oct-06	0	-1	-2	-1	-2	-3	-3	-2	1	3	6	9	11	12	12	13	12	11	9	7	7	5	4	2		4.6	12.6	
3-Oct-06	1	0	-1	-2	-3	-3	-3	-3	0	3	6	9	12	13	14	14	13	12	10	8	7	6	3	2		5.0	14.0	
4-Oct-06	0	-1	-2	-2	-2	-2	-2	-2	1	3	8	11	14	17	18	18	17	14	12	11	11	10	10	10		7.1	17.7	
5-Oct-06	9	8	8	8	9	9	10	10	12	12	13	12	11	11	12	12	12	11	11	10	9	7	6	5		9.8	12.5	
6-Oct-06	5	4	2	2	3	2	2	3	2	5	7	10	11	12	11	10	9	7	5	5	4	2	2	2		5.3	11.6	
7-Oct-06	1	0	-1	-2	-2	-2	-2	-3	0	5	7	9	10	11	11	11	10	9	7	6	5	3	2	0		3.9	11.4	
8-Oct-06	-1	0	-2	-3	-3	-3	-4	-4	-1	3	6	8	10	12	12	13	12	10	8	6	5	4	2	1		3.8	12.6	
9-Oct-06	0	-1	-1	-2	-2	-2	-2	-1	2	6	10	14	16	17	17	16	15	14	12	12	11	11	10	10		7.5	16.9	
10-Oct-06	9	8	8	7	7	8	10	9	11	13	15	16	18	19	20	18	13	11	8	6	5	4	3	2		10.3	20.0	
11-Oct-06	1	1	0	-1	-1	-1	-1	-1	-1	-1	1	2	6	8	10	12	10	9	8	6	5	4	5	5		3.6	11.8	
12-Oct-06	5	5	6	6	6	7	10	8	7	9	11	13	15	15	15	14	14	12	10	10	9	8	8	8		9.6	14.9	
13-Oct-06	7	7	7	6	6	6	4	3	5	6	8	11	12	12	13	13	12	11	9	8	7	7	6	6		8.0	13.0	
14-Oct-06	5	5	4	3	2	2	2	2	3	3	3	4	5	5	6	5	5	5	4	4	4	5	4	4		4.0	5.6	
15-Oct-06	4	4	4	4	4	4	4	3	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0		1.7	4.3	
16-Oct-06	-1	-1	-1	-2	-2	-2	-2	-3	-3	-2	-2	-1	-1	-1	-1	-1	-2	-2	-2	-2	-3	-3	-3	-3		-1.9	-0.6	
17-Oct-06	-3	-3	-4	-5	-6	-7	-7	-7	-5	-2	-1	1	3	6	7	8	7	5	4	4	4	4	3	3		0.4	7.8	
18-Oct-06	3	2	1	1	1	1	0	1	2	6	8	9	9	9	9	9	9	8	6	5	4	3	3	2		4.6	9.4	
19-Oct-06	2	2	2	2	2	2	2	3	3	4	5	5	8	11	12	10	10	9	6	5	5	5	5	4		5.2	11.8	
20-Oct-06	4	3	3	3	4	4	4	4	5	6	7	8	9	11	12	11	10	8	6	5	5	5	4	3		6.0	11.8	
21-Oct-06	1	1	1	0	0	0	-1	-1	0	1	3	5	7	9	10	11	10	7	7	7	6	5	5	4		4.1	11.0	
22-Oct-06	4	3	3	3	3	3	3	3	3	3	4	6	10	11	10	11	12	11	12	11	10	8	7	5		6.6	12.1	
23-Oct-06	5	3	4	4	3	4	4	4	5	6	9	9	9	9	9	9	9	10	8	6	5	5	6	5		6.3	9.6	
24-Oct-06	5	5	5	6	4	4	4	1	3	5	5	7	10	9	9	10	8	7	6	4	3	3	3	4		5.5	9.7	
25-Oct-06	3	2	3	4	4	4	3	2	2	3	5	7	8	6	8	8	8	6	6	6	6	6	6	6		5.1	8.3	
26-Oct-06	5	4	4	3	3	3	3	2	3	5	6	7	7	8	8	7	6	5	3	1	0	0	0	0		3.7	7.9	
27-Oct-06	0	2	2	2	0	1	1	1	1	1	2	3	4	4	4	2	0	0	0	0	-1	-1	-1	-1		1.1	4.4	
28-Oct-06	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	-3	-3	-3	-3	-4	-4	-4	-5	-5	-5	-6	-6	-7	-7		-3.4	-1.3	
29-Oct-06	-6	-7	-7	-7	-8	-9	-9	-9	-9	-10	-9	-8	-7	-6	-6	-5	-5	-6	-7	-8	-9	-9	-10	-11	-11		-8.0	-4.7
30-Oct-06	-11	-11	-12	-13	-14	-14	-15	-15	-14	-12	-10	-7	-6	-3	-2	-1	-4	-6	-5	-6	-7	-7	-7	-7		-8.8	-1.0	
31-Oct-06	-8	-9	-9	-10	-10	-10	-10	-10	-10	-8	-6	-4	-3	-3	-2	-2	-4	-7	-7	-8	-8	-9	-9	-8		-7.2	-1.7	
Hourly Avg	1.7	1.2	0.9	0.5	0.3	0.2	0.2	0.0	1.0	2.6	4.3	6.0	7.3	8.1	8.6	8.4	7.5	6.3	4.9	4.0	3.4	2.8	2.2	1.9				
Hourly Max	9.1	8.2	7.7	7.7	8.6	9.5	9.6	10.5	11.6	12.9	15.3	16.5	17.9	19.3	20.0	17.7	16.7	14.3	12.5	11.5	10.8	10.7	10.1	9.6				

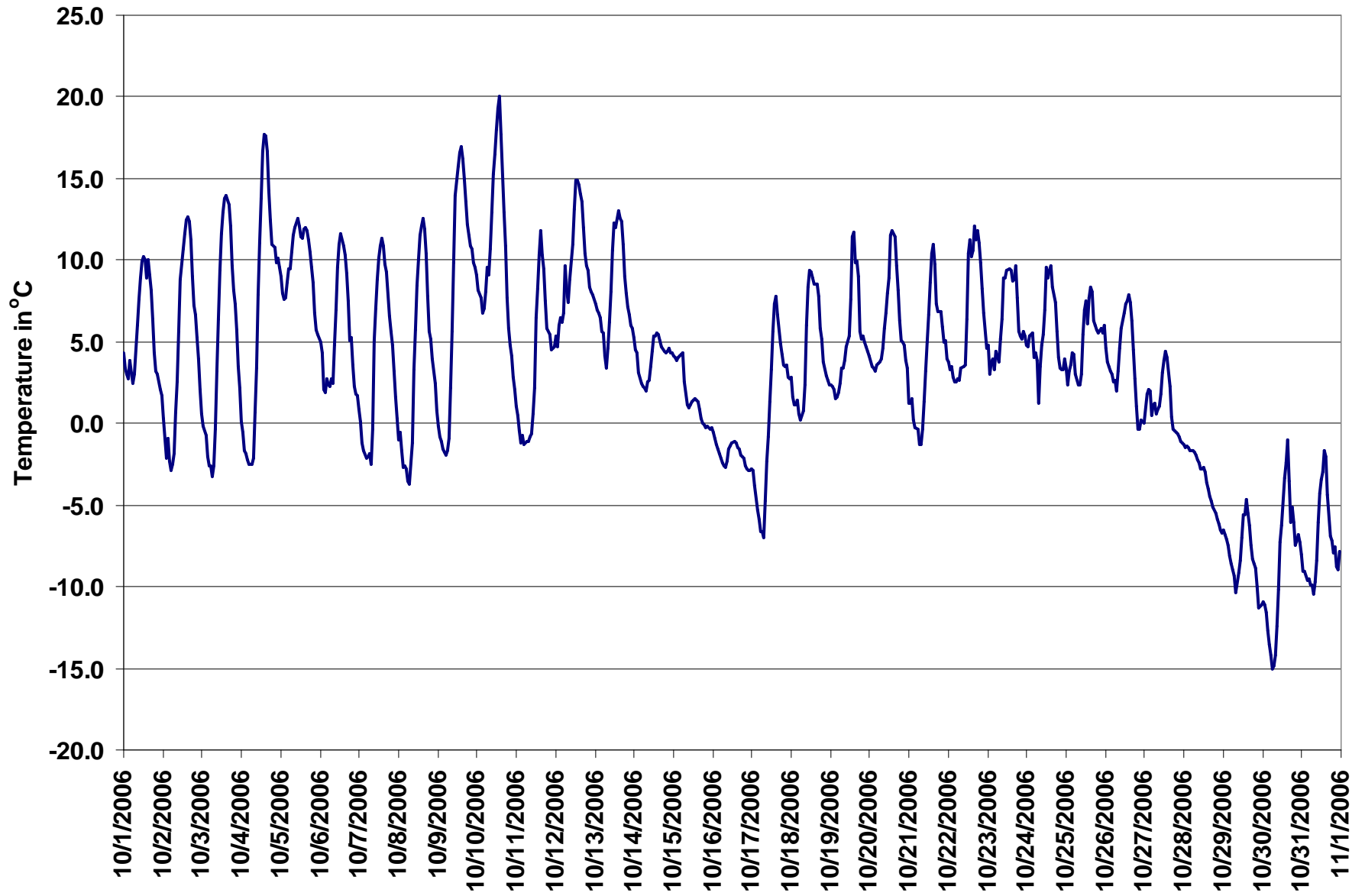


Figure 45. PASZA - Beaverlodge Temperature 1-hr Average Monthly Trend

PASZA - Beaverlodge - Scalar Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

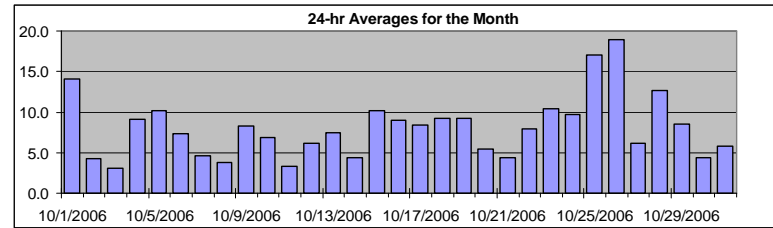
HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	35.9	km/hr	26-Oct	12:00 13:00
Maximum 24-hr Value:	19.0	km/hr	26-Oct	



Calm Time:	8 hrs	1% calms	Operational Time:	736 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	25	5	1	AverageS	
	27.1	20.2	11.2	6.3	3.4	2.0	1.3	8.1 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Oct-06	11	8	11	12	16	13	11	9	15	21	22	20	20	20	14	28	26	16	11	9	8	6	5	6	14.1	27.9
2-Oct-06	3	2	3	4	2	2	4	3	3	5	6	6	7	9	9	9	6	7	3	3	2	2	2	2	4.3	8.7
3-Oct-06	2	3	2	1	1	calm	1	1	3	2	3	3	4	5	5	5	5	3	4	5	5	2	3	2	3.1	5.3
4-Oct-06	2	2	3	2	2	2	3	3	5	6	9	11	14	21	25	20	20	17	13	8	11	4	7	7	9.1	24.5
5-Oct-06	10	7	3	3	2	3	5	7	7	13	19	18	17	13	13	14	13	13	15	14	14	9	8	7	10.2	19.1
6-Oct-06	4	4	2	1	3	3	3	3	2	2	6	13	13	14	12	14	15	16	11	11	7	7	5	7	7.4	15.5
7-Oct-06	4	1	1	3	3	3	3	2	2	2	8	12	11	11	10	8	4	4	4	4	3	3	5	2	4.6	11.8
8-Oct-06	2	2	calm	4	3	2	3	3	3	2	4	5	6	7	6	6	5	4	4	5	4	3	2	3	3.8	6.5
9-Oct-06	3	3	3	2	2	2	2	5	2	3	5	15	21	23	23	19	16	12	10	9	5	5	5	4	8.3	23.3
10-Oct-06	6	8	4	3	5	3	6	3	3	6	9	10	9	10	9	11	9	11	11	11	10	5	2	3	6.9	11.4
11-Oct-06	4	3	1	3	2	2	2	2	3	3	3	4	3	5	6	5	6	4	3	2	calm	calm	3	2	3.3	6.1
12-Oct-06	2	2	3	2	3	6	8	9	7	10	8	8	7	9	9	9	6	6	7	6	6	5	5	5	6.1	9.8
13-Oct-06	5	5	4	2	4	4	1	2	3	4	3	3	9	11	13	12	11	9	10	11	11	14	12	12	7.5	14.1
14-Oct-06	9	7	7	3	3	2	2	4	2	3	3	3	6	7	5	5	4	6	5	4	4	2	5	3	4.3	8.7
15-Oct-06	3	3	2	calm	calm	3	8	12	13	11	13	13	14	14	14	13	12	13	12	12	11	10	9	8	10.2	14.1
16-Oct-06	11	11	12	13	11	10	11	10	9	9	9	9	10	11	10	9	7	5	6	5	8	6	6	7	9.0	12.8
17-Oct-06	7	7	4	4	3	4	4	3	4	3	3	3	8	13	17	16	17	12	16	13	12	11	9	9	8.4	17.3
18-Oct-06	8	4	3	5	8	6	6	3	7	17	24	24	20	17	12	9	8	5	7	5	4	7	7	7	9.3	24.2
19-Oct-06	5	4	3	4	2	4	3	2	3	3	4	6	6	8	20	20	23	18	13	10	15	16	16	15	9.2	22.8
20-Oct-06	13	8	7	6	8	7	7	6	5	5	6	5	3	3	4	4	2	1	1	1	7	8	6	6	5.4	12.9
21-Oct-06	2	3	5	3	calm	calm	2	2	4	4	4	4	4	5	7	8	8	6	5	7	4	2	2	2	4.4	8.2
22-Oct-06	3	4	3	4	4	3	3	3	2	3	2	2	4	4	3	1	2	10	20	27	31	24	17	13	8.0	30.7
23-Oct-06	12	3	10	10	5	11	13	10	10	15	10	12	13	12	18	16	9	18	15	9	7	3	6	4	10.4	17.7
24-Oct-06	5	4	2	4	7	5	5	5	5	3	6	5	9	17	19	19	19	16	19	16	12	8	9	12	9.7	19.4
25-Oct-06	10	11	14	17	18	22	20	19	12	6	14	20	25	23	23	20	22	16	14	7	11	22	19	24	17.0	24.7
26-Oct-06	27	26	20	20	15	13	16	14	16	17	27	34	36	35	30	32	26	20	10	6	3	3	5	5	19.0	35.9
27-Oct-06	4	14	10	6	4	4	4	3	7	4	4	5	4	4	12	14	12	6	2	2	3	5	7	8	6.2	14.1
28-Oct-06	8	9	7	6	8	6	6	9	15	16	19	18	15	19	13	14	14	10	14	13	14	17	19	13	12.6	19.3
29-Oct-06	12	11	9	8	7	7	8	10	10	10	11	10	11	9	9	9	11	8	9	8	7	5	3	2	8.5	11.9
30-Oct-06	2	2	2	1	3	4	3	3	4	4	3	2	4	2	3	3	4	4	7	9	7	7	9	11	4.4	11.4
31-Oct-06	10	8	7	5	4	7	6	5	4	8	9	7	8	8	6	6	5	3	5	3	6	4	4	2	5.9	9.9
1-hr Average	6.7	6.1	5.6	5.4	5.4	5.6	5.8	5.7	6.1	7.1	8.9	10.0	11.0	11.9	12.3	12.1	11.2	9.6	9.2	8.2	8.4	7.5	7.2	6.9		
Hourly Max	27.0	26.4	19.5	19.8	18.4	21.8	20.2	18.5	15.8	21.0	27.2	34.2	35.9	34.6	30.1	32.0	26.3	20.2	19.7	26.6	30.7	23.9	19.3	24.5		

PASZA – Beaverlodge - Vector Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

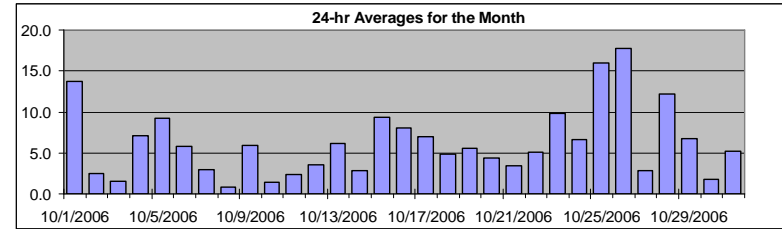
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	35.7	km/hr	26-Oct	12:00 13:00
Maximum 24-hr Value:	17.8	km/hr	26-Oct	



Calm Time:	19 hrs	3% calms	Operational Time:	725 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	26.8	19.9	11.2	6.1	3.1	1.5	1.0	11.6 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 Vector Average	Daily Max	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00			22:00 23:00
1-Oct-06	11	8	11	12	16	12	11	9	15	21	21	20	20	19	12	28	26	15	11	9	8	6	4	5	13.7	27.8
2-Oct-06	3	1	2	2	1	2	4	3	3	5	6	5	6	8	8	8	5	6	3	2	1	2	2	2	2.4	8.0
3-Oct-06	2	3	2	1	calm	calm	1	1	3	1	2	3	2	4	5	5	4	3	4	5	5	2	1	1	1.5	5.2
4-Oct-06	2	2	2	2	2	2	3	3	4	6	9	10	13	20	24	20	20	17	13	8	11	4	7	7	7.2	24.4
5-Oct-06	9	6	3	3	1	3	5	7	6	13	19	18	17	13	13	13	13	13	15	14	14	9	8	7	9.3	19.0
6-Oct-06	4	2	2	1	3	3	3	3	1	1	5	13	13	14	12	14	14	15	11	11	7	7	5	6	5.8	15.4
7-Oct-06	3	calm	calm	3	3	3	2	1	2	1	8	12	11	10	9	7	4	4	3	4	3	2	4	2	3.0	11.6
8-Oct-06	1	calm	calm	4	3	2	3	3	3	2	4	4	6	6	6	5	4	3	4	5	4	3	2	3	0.8	5.9
9-Oct-06	3	3	3	2	2	2	2	5	2	3	4	15	21	23	23	18	16	12	10	9	5	5	5	4	5.9	23.1
10-Oct-06	5	8	3	2	3	1	5	1	2	6	9	10	9	9	9	8	8	11	11	10	9	4	1	2	1.4	11.3
11-Oct-06	3	3	1	3	2	2	2	2	3	3	3	3	3	5	6	4	6	4	3	2	calm	calm	2	2	2.4	5.9
12-Oct-06	2	2	2	1	3	5	8	9	7	10	7	8	7	8	9	9	6	5	7	6	5	4	5	5	3.6	9.7
13-Oct-06	5	4	4	2	4	4	calm	calm	2	4	3	2	9	11	12	12	11	9	10	11	11	14	12	12	6.1	14.1
14-Oct-06	9	7	7	2	2	2	2	calm	1	3	2	1	4	6	5	5	4	6	1	3	4	2	4	2	2.9	8.7
15-Oct-06	3	3	2	calm	calm	3	8	12	13	11	13	13	13	14	14	13	12	13	12	12	11	10	9	8	9.4	14.0
16-Oct-06	11	11	12	13	11	10	11	9	9	9	9	9	9	11	10	9	7	5	5	5	8	6	6	6	8.0	12.8
17-Oct-06	7	7	4	4	3	3	4	3	4	3	2	3	8	13	17	16	17	12	16	13	12	11	9	9	6.9	17.3
18-Oct-06	8	2	1	3	5	5	6	3	6	17	24	23	20	17	12	9	8	4	7	5	4	7	7	7	4.9	24.1
19-Oct-06	5	4	3	4	1	4	3	2	2	3	2	5	6	6	19	18	23	18	12	10	15	16	16	15	5.6	22.7
20-Oct-06	13	8	7	6	8	7	7	6	5	5	6	5	2	2	2	3	2	1	1	1	7	8	6	6	4.3	12.9
21-Oct-06	2	calm	5	2	calm	calm	1	2	4	3	3	4	5	7	8	8	8	6	5	7	4	2	2	1	3.4	8.1
22-Oct-06	3	3	3	4	3	2	3	3	2	3	2	2	4	4	3	calm	calm	9	20	26	31	24	17	13	5.0	30.7
23-Oct-06	12	1	10	9	5	10	12	9	9	14	9	12	13	11	17	16	9	18	15	9	7	2	6	4	9.8	17.6
24-Oct-06	5	4	2	1	6	4	4	2	4	3	6	5	9	17	19	19	16	19	16	12	8	9	12	12	6.6	19.1
25-Oct-06	10	11	14	17	18	22	20	18	12	6	13	20	24	23	22	19	22	16	14	7	11	22	19	24	16.0	24.4
26-Oct-06	26	26	19	20	15	13	16	14	16	16	27	34	36	34	30	32	26	20	10	5	2	2	3	5	17.8	35.7
27-Oct-06	3	14	10	5	3	4	3	calm	7	4	4	5	4	4	12	14	12	6	1	2	3	5	7	8	2.8	14.0
28-Oct-06	8	9	7	6	8	6	6	9	15	16	19	18	15	19	13	13	14	10	14	13	14	17	19	13	12.2	19.2
29-Oct-06	12	11	8	8	7	7	8	10	10	10	11	10	11	9	9	9	11	8	9	8	7	3	3	1	6.7	11.9
30-Oct-06	2	2	2	1	2	4	3	3	4	4	3	2	4	2	3	3	4	3	7	9	7	7	9	11	1.7	11.3
31-Oct-06	10	8	7	5	4	7	6	4	3	8	9	7	8	8	6	5	4	3	5	3	5	3	4	2	5.2	9.9
1-hr Vector	1.9	1.7	1.2	1.6	1.7	1.5	2.1	1.5	1.5	3.1	5.0	6.1	6.1	6.5	6.8	6.3	6.0	4.8	4.0	3.1	3.4	3.3	1.9	2.1		
Hourly Max	26.1	26.4	19.4	19.7	18.3	21.7	20.1	18.5	15.7	20.9	26.9	34.0	35.7	34.4	29.9	31.9	26.3	20.2	19.7	26.3	30.7	23.8	19.2	24.4		

PASZA – Beaverlodge - Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2006 to November 1, 2006

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
	350.0	330.4	284.6	225.2	109.0	43.9	12.5	285 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-Oct-06	257	252	264	266	277	273	267	277	278	278	285	285	280	298	311	265	264	276	287	282	279	293	307	317	278	W
2-Oct-06	282	178	48	293	124	91	76	85	190	221	213	222	227	224	230	215	211	191	152	73	43	280	298	203	211	SSW
3-Oct-06	238	71	76	83	171	83	67	84	78	158	234	188	193	208	217	226	225	185	92	84	89	153	114	118	156	SSE
4-Oct-06	87	107	168	119	127	126	192	124	193	196	214	214	227	250	266	269	279	278	277	259	244	253	277	234	249	WSW
5-Oct-06	241	236	219	72	194	226	282	302	293	304	298	299	299	293	296	292	263	255	276	271	289	290	280	295	283	WNW
6-Oct-06	303	286	142	141	72	77	67	66	146	246	263	299	296	315	326	330	310	286	284	299	304	311	336	317	307	NW
7-Oct-06	342	347	155	78	72	67	353	90	72	252	290	298	316	323	318	318	343	341	43	66	57	274	55	279	335	NNW
8-Oct-06	88	252	78	60	65	74	79	65	71	262	302	307	243	256	232	227	235	181	116	109	113	110	153	140	179	S
9-Oct-06	139	130	122	133	143	126	86	74	75	83	231	284	284	284	280	284	306	278	274	277	272	288	239	253	280	W
10-Oct-06	263	255	241	176	33	317	320	305	32	303	303	332	318	320	338	56	117	118	123	101	71	96	180	172	11	N
11-Oct-06	126	115	228	278	309	107	96	96	144	142	158	136	173	171	156	165	164	139	180	221	251	82	88	95	151	SSE
12-Oct-06	72	60	58	97	78	36	352	16	348	344	344	341	15	33	47	56	63	139	138	106	101	206	140	116	42	NE
13-Oct-06	60	35	67	68	75	84	2	356	93	301	306	175	134	131	103	110	116	102	84	81	96	110	109	109	99	E
14-Oct-06	105	111	107	259	313	85	102	183	175	214	193	203	135	146	149	139	137	139	213	71	100	202	223	163	146	SE
15-Oct-06	192	183	197	165	80	329	348	336	332	324	321	323	323	325	325	330	328	324	321	319	322	322	330	355	326	NW
16-Oct-06	12	13	16	22	19	15	16	13	17	8	11	26	28	26	27	15	4	9	347	322	307	311	306	267	7	N
17-Oct-06	247	254	262	191	218	171	182	143	183	187	165	204	229	243	261	259	256	273	285	286	288	289	298	304	260	W
18-Oct-06	315	245	89	273	262	165	195	199	265	280	279	288	305	317	318	326	318	8	43	47	134	109	106	116	297	WNW
19-Oct-06	122	131	165	207	137	69	76	106	128	64	124	206	172	265	306	310	290	289	345	308	307	313	315	318	303	WNW
20-Oct-06	315	320	332	320	328	324	322	319	318	309	308	297	327	266	162	166	138	116	145	260	306	320	333	316	315	NW
21-Oct-06	75	348	36	53	254	70	84	76	66	102	173	161	176	154	147	138	125	109	107	118	121	146	130	118	121	ESE
22-Oct-06	143	135	117	139	156	139	104	122	130	106	190	107	174	182	208	192	306	296	287	274	270	266	263	264	258	WSW
23-Oct-06	264	217	248	256	224	246	254	256	230	252	250	250	247	250	243	239	239	252	256	246	222	195	189	122	244	WSW
24-Oct-06	124	122	168	1	341	351	66	149	85	146	191	210	230	248	256	278	273	266	256	260	261	262	273	275	259	W
25-Oct-06	264	265	271	275	275	274	268	263	255	200	231	235	237	233	236	227	226	221	224	224	241	256	263	275	249	WSW
26-Oct-06	266	255	255	254	274	275	279	275	275	263	275	278	275	275	281	275	276	276	273	249	138	92	135	195	270	W
27-Oct-06	123	269	270	353	75	51	225	220	234	226	225	249	236	247	261	247	237	247	248	123	93	79	68	68	248	WSW
28-Oct-06	64	61	83	96	87	93	79	75	81	82	81	80	76	75	69	68	61	60	58	53	44	45	48	45	67	ENE
29-Oct-06	47	48	32	22	358	347	340	323	322	327	322	318	319	325	328	318	313	309	315	329	315	260	136	122	336	NNW
30-Oct-06	147	149	141	124	69	66	66	76	59	68	80	88	84	75	58	341	321	324	298	288	292	298	302	318	342	NNW
31-Oct-06	310	300	303	333	346	331	341	44	328	321	313	323	331	318	338	358	22	29	328	330	308	322	46	13	332	NNW
Hourly Avg	288	270	278	296	317	322	315	326	303	287	279	282	276	278	283	280	275	272	286	292	293	289	300	296		

PASZA – Beaverlodge - Standard Deviation of Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

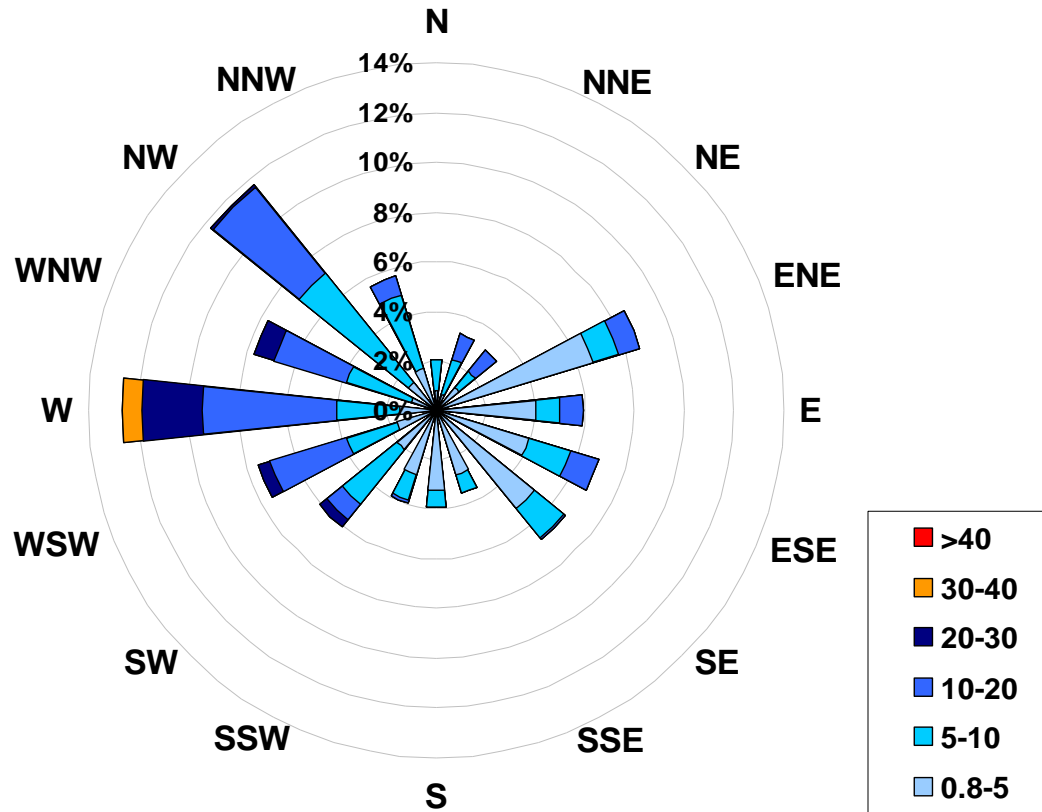
Determined by the Yamartino 15-min interval calculation

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
	47.9	39.0	18.5	9.3	5.1	2.8	2.1

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

Day	Mountain Standard Time																							Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00		22:00 23:00
1-Oct-06	4	5	2	6	2	2	2	3	4	5	6	7	8	12	14	5	6	10	11	2	3	4	10	7	14.4
2-Oct-06	25	43	41	23	29	13	8	12	17	14	13	21	34	28	22	24	26	16	19	43	33	52	23	17	52.3
3-Oct-06	10	20	14	56	47	11	12	19	4	24	25	26	55	33	30	23	32	12	6	6	9	14	15	35	55.9
4-Oct-06	13	19	17	17	16	15	14	17	17	10	10	9	7	9	5	5	5	3	3	9	6	13	8	11	18.8
5-Oct-06	6	9	36	34	34	24	16	23	6	6	4	5	5	4	5	6	5	5	3	3	3	3	4	5	36.3
6-Oct-06	8	26	24	25	33	9	6	44	15	47	15	9	10	10	9	8	10	5	4	5	5	5	7	13	46.9
7-Oct-06	20	44	27	15	10	16	36	35	10	54	11	10	14	23	18	19	20	14	15	4	8	32	24	41	54.1
8-Oct-06	23	39	46	6	6	6	9	8	7	26	15	19	21	31	22	32	30	9	9	6	7	13	12	17	45.7
9-Oct-06	11	15	19	22	20	12	13	6	39	21	14	10	7	6	7	8	5	3	2	3	6	5	5	9	38.8
10-Oct-06	9	6	28	23	44	48	14	30	11	8	12	12	14	14	19	18	9	7	5	7	8	44	35	31	48.4
11-Oct-06	13	7	47	12	11	22	18	33	13	18	20	27	30	17	15	19	10	9	12	20	22	37	17	27	46.9
12-Oct-06	21	43	31	24	22	12	12	10	9	8	15	17	24	13	11	6	5	16	5	5	13	13	8	7	42.8
13-Oct-06	10	28	14	38	9	10	40	26	39	14	42	38	13	9	10	6	9	5	4	3	4	3	3	3	42.3
14-Oct-06	4	6	11	29	50	43	22	31	24	29	34	37	23	23	12	17	9	7	25	17	12	20	13	16	50.4
15-Oct-06	8	9	17	13	3	24	8	5	5	5	5	5	6	6	6	7	6	6	4	4	4	4	6	9	24.2
16-Oct-06	6	6	6	4	4	7	5	6	6	8	10	9	7	9	7	8	13	12	15	11	8	9	10	11	14.8
17-Oct-06	7	6	8	6	10	12	10	17	17	20	15	18	9	5	4	5	4	7	5	3	3	3	2	2	20.4
18-Oct-06	4	29	56	26	16	21	14	28	11	3	4	5	7	5	5	7	7	29	4	10	21	7	8	8	55.7
19-Oct-06	11	8	14	8	31	8	14	13	21	35	17	11	10	18	10	9	4	3	13	4	4	4	3	4	34.7
20-Oct-06	4	5	6	7	5	4	5	5	8	15	7	14	24	37	40	21	17	23	23	35	6	6	4	2	39.8
21-Oct-06	44	47	8	45	45	19	42	5	7	10	10	13	12	10	13	10	6	5	9	6	15	17	18	22	47.2
22-Oct-06	14	13	16	6	10	20	10	12	21	17	22	38	20	14	12	34	41	23	4	5	4	4	6	2	40.8
23-Oct-06	4	48	6	5	19	16	5	18	16	6	19	7	9	9	4	4	5	4	4	7	8	42	11	9	48.4
24-Oct-06	14	10	26	35	25	34	46	28	11	19	3	6	7	6	7	8	4	4	2	2	2	3	3	3	46.4
25-Oct-06	4	3	2	2	4	4	4	3	11	12	12	6	6	5	4	6	4	2	3	10	6	2	4	4	12.2
26-Oct-06	5	2	3	2	5	4	3	3	5	5	6	5	5	6	6	5	3	4	7	33	26	29	20	12	32.7
27-Oct-06	41	19	13	32	45	46	36	39	5	4	5	6	12	16	6	7	4	3	20	5	8	5	3	4	46.4
28-Oct-06	4	3	5	5	5	4	6	5	4	6	4	4	5	4	4	5	4	5	4	6	3	2	3	2	6.4
29-Oct-06	4	4	4	5	7	5	4	3	2	3	4	6	4	7	5	5	2	3	3	19	12	22	33	30	33.2
30-Oct-06	17	21	22	38	17	9	20	11	4	5	7	10	6	12	5	22	8	10	10	2	5	5	4	4	37.8
31-Oct-06	3	3	4	9	9	4	7	19	18	3	3	5	6	6	7	8	26	17	19	22	7	33	30	29	32.9
Hourly Max	44	48	56	56	50	48	46	44	39	54	42	38	55	37	40	34	41	29	25	43	33	52	35	41	

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



Calms: 1%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	300
5	to	10	225
10	to	20	173
20	to	30	32
30	to	40	6
	>	40	0
Total Non-Zero Values			736

PASZA - Portable-Falher Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Portable-Fahler - Sulphur Dioxide Monthly Summary

Station: Portable-Fahler
 Station Owner: PASZA

HOURLY AVERAGE TABLE

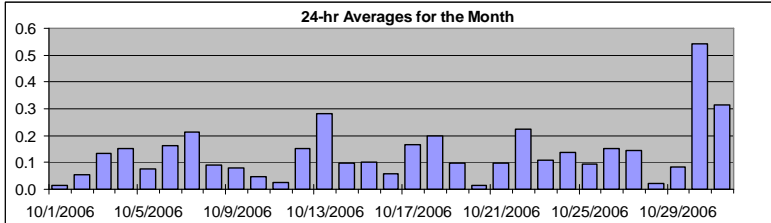
Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	1.6 ppb	18-Oct	4:00	5:00
Maximum 24-hr Average:	0.5 ppb	30-Oct		



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

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum			
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00				
1-Oct-06	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	0.1	
2-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0.1	0.5
3-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0.1	0.5	
4-Oct-06	1	0	0	A	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	
5-Oct-06	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
6-Oct-06	0	A	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6	
7-Oct-06	A	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0.2	1.0	
8-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.2	
9-Oct-06	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	0.5	
10-Oct-06	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.0	0.5	
11-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.0	0.1	
12-Oct-06	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	A	0	0	0	0	0	0	0.2	0.6	
13-Oct-06	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	A	0	0	0	0	0	0	0	0.3	1.2	
14-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.1	0.3	
15-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.1	0.3	
16-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
17-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
18-Oct-06	0	0	0	0	2	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.2	1.6	
19-Oct-06	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.1	
20-Oct-06	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	
21-Oct-06	0	0	0	0	0	0	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.1	1.0	
22-Oct-06	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5	
23-Oct-06	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
24-Oct-06	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
25-Oct-06	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.8	
26-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.3	
27-Oct-06	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	0.4	
28-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.0	0.2	
29-Oct-06	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	0.1	0.6	
30-Oct-06	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	A	0	0	0	0	0	0	0.5	1.1	
31-Oct-06	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	1	0	0	0	0.3	0.7	
Hourly Avg	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
Hourly Max	0.8	0.5	1.1	0.7	1.6	0.6	0.3	0.5	0.4	0.8	1.2	1.1	1.0	0.9	1.0	0.8	0.7	0.5	0.3	0.4	0.3	0.5	0.4	0.6				

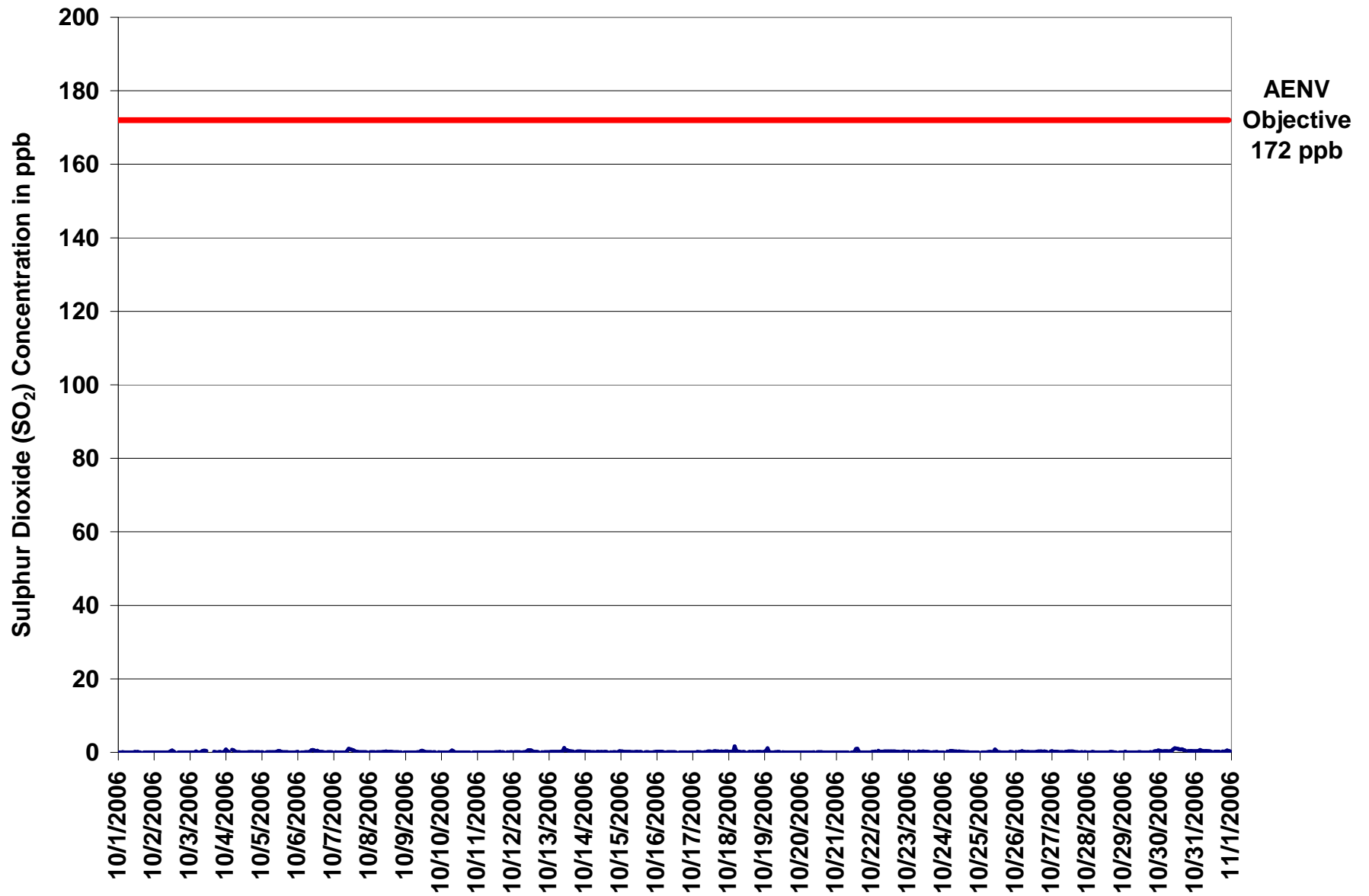


Figure 46. PASZA - Portable-Fahler Sulphur Dioxide 1-hr Average Monthly Trend

Station: Portable-Fahler
 Station Owner: PASZA

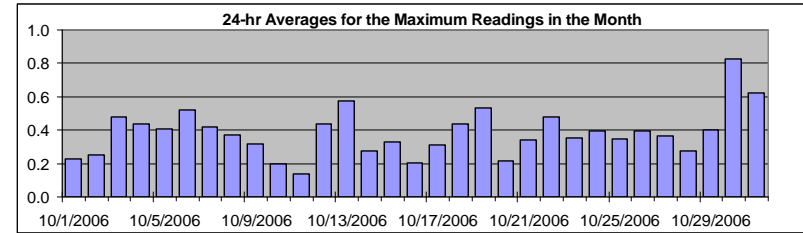
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	4.3	ppb	19-Oct	2:00 3:00
Maximum 24-hr Value:	0.8	ppb	30-Oct	



AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.6	0.9	0.5	0.3	0.2	0.0	0.0	0.4 ppb	0.3 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Oct-06	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.2	0.5
2-Oct-06	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	A	0	0	0	1	0	0	0	0	0	0.3	1.0
3-Oct-06	0	0	0	0	1	1	0	1	1	1	1	1	C	C	C	A	1	1	0	1	2	0	1	1	0.5	1.6	
4-Oct-06	2	1	1	A	1	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.4	1.6	
5-Oct-06	0	1	A	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0.4	0.6	
6-Oct-06	1	A	0	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0.5	1.1	
7-Oct-06	A	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	A	0.4	1.2	
8-Oct-06	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	A	0	0.4	0.6	
9-Oct-06	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	1	A	0	0	0.3	0.6	
10-Oct-06	0	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.2	1.1	
11-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.2	
12-Oct-06	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	A	0	0	1	1	0	0.4	1.1	
13-Oct-06	0	0	0	0	0	0	0	0	0	1	2	1	1	1	1	1	0	A	0	0	0	1	1	0	0.6	2.5	
14-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	1	0.3	0.8	
15-Oct-06	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.3	0.8	
16-Oct-06	0	0	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.2	0.7	
17-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
18-Oct-06	0	0	0	0	3	1	0	0	0	0	1	0	A	0	0	0	0	0	0	0	0	1	0	0	0.4	2.8	
19-Oct-06	2	2	4	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.5	4.3	
20-Oct-06	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2	
21-Oct-06	0	0	0	0	0	0	0	0	0	A	0	0	1	1	2	1	0	0	0	0	0	0	0	0	0.3	1.7	
22-Oct-06	0	0	1	A	1	1	0	0	0	1	1	1	1	1	1	0	1	0	0	0	0	1	0	0	0.5	0.8	
23-Oct-06	0	0	A	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8	
24-Oct-06	0	A	1	0	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8	
25-Oct-06	A	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0.3	1.3	
26-Oct-06	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0.4	0.9	
27-Oct-06	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0.4	0.9	
28-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.3	
29-Oct-06	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	1	1	1	0.4	0.9	
30-Oct-06	1	1	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	A	1	0	1	0	1	0.8	1.4	
31-Oct-06	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	A	1	0	1	1	1	1	0.6	0.9	
Hourly Avg	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.4	0.5	0.6	0.5	0.5	0.4	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3			
Hourly Max	1.7	2.2	4.3	0.9	2.8	1.3	0.8	1.1	1.1	1.4	2.5	1.4	1.4	1.2	1.7	1.3	0.9	0.9	0.8	0.9	1.6	0.8	0.8	0.9			

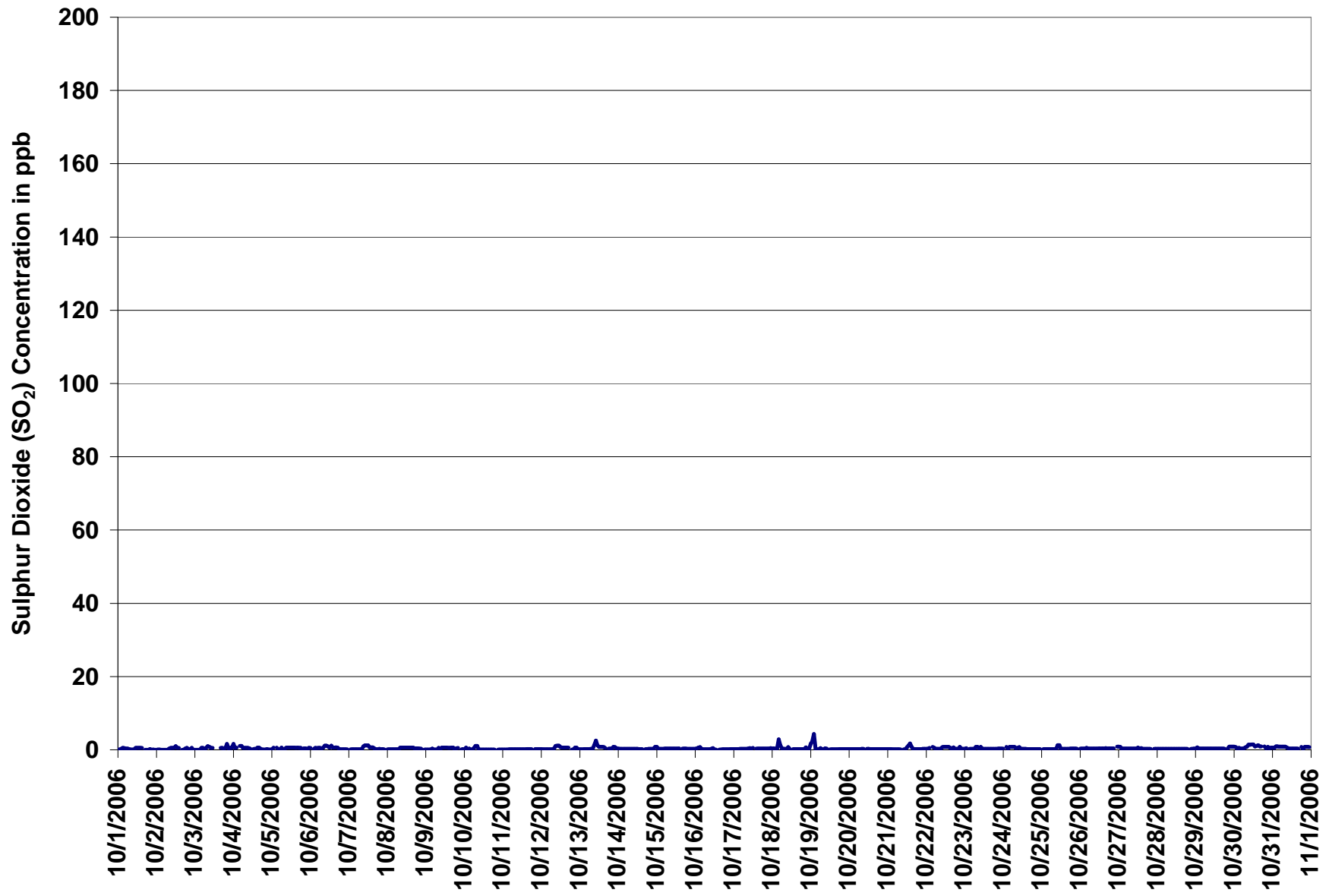
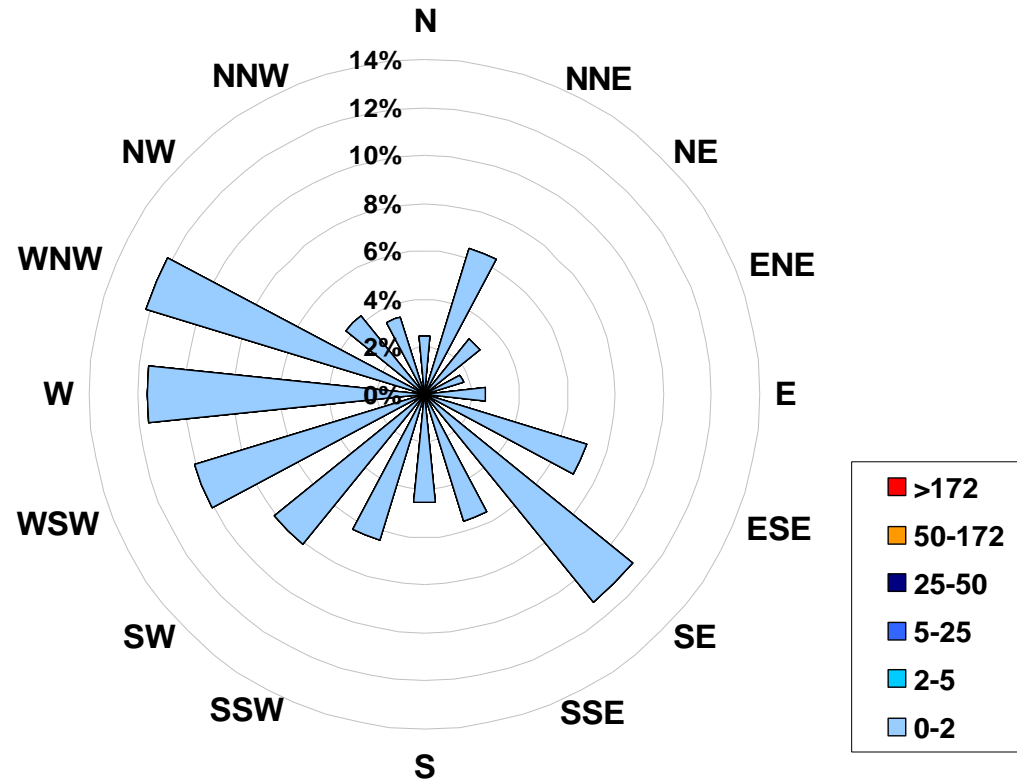


Figure 47. PASZA - Portable-Fahler Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Portable-Fahler Site for October 2006



Calms: 0%

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

PASZA - Portable-Fahler - Ozone Monthly Summary

Station: Portable-Fahler
 Station Owner: PASZA

HOURLY AVERAGE TABLE

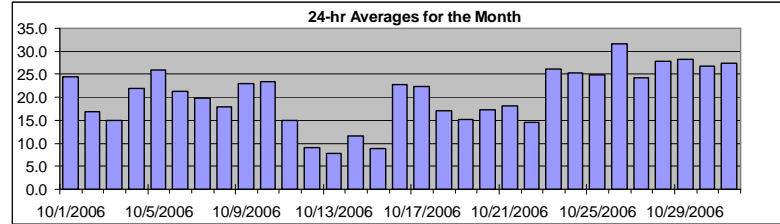
Ozone (O₃)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Summary

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	38.5 ppb	24-Oct	14:00 15:00
Maximum 24-hr Average:	31.7 ppb	26-Oct	



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
	36.4	33.1	26.9	21.0	14.1	6.9	1.6	20.4 ppb	21.0 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	0:00			
1-Oct-06	21	23	24	26	24	23	22	22	24	27	30	31	33	33	33	32	A	24	20	16	15	21	20	19		24.5	33.2	
2-Oct-06	17	16	14	15	13	11	10	9	14	16	16	20	25	29	31	A	30	29	23	14	4	7	12	12		16.8	30.6	
3-Oct-06	12	11	12	10	10	11	10	7	9	16	19	20	C	C	A	31	32	28	26	23	15	2	2	10		15.0	31.7	
4-Oct-06	13	12	14	A	10	9	8	9	13	19	22	27	32	34	34	34	33	28	25	26	23	26	26	26		21.8	33.9	
5-Oct-06	25	18	A	23	22	21	24	23	23	27	33	35	37	37	36	34	32	30	21	21	21	19	17	18		26.0	36.7	
6-Oct-06	22	A	15	13	18	17	14	12	14	19	22	24	23	21	29	31	31	29	24	20	25	24	21	20		21.3	31.3	
7-Oct-06	A	16	15	14	12	6	8	10	12	20	23	25	28	28	30	30	29	28	22	19	21	22	18	A		19.8	30.1	
8-Oct-06	8	10	10	9	12	9	10	12	12	16	18	21	25	30	31	31	32	27	23	20	19	12	A	15		17.8	31.9	
9-Oct-06	13	13	14	15	14	13	12	13	14	20	27	28	31	32	34	35	34	32	28	26	28	A	28	27		23.0	35.4	
10-Oct-06	27	26	29	29	28	28	27	25	25	25	25	24	23	23	24	22	20	17	16	18	A	20	17	18		23.4	29.0	
11-Oct-06	20	13	11	16	13	9	9	9	13	15	16	17	18	20	21	21	18	16	16	A	15	14	12	12		14.9	21.3	
12-Oct-06	11	10	9	9	8	7	5	4	8	11	13	14	15	15	17	19	17	13	A	2	0	0	0	0		9.1	18.9	
13-Oct-06	2	4	5	2	3	1	2	1	1	2	4	8	12	18	18	17	17	A	14	11	9	7	9	14	11		7.7	18.1
14-Oct-06	11	10	10	7	7	7	8	9	8	11	13	15	15	16	17	16	A	14	14	15	13	12	10	7		11.5	16.5	
15-Oct-06	7	8	8	8	6	4	4	5	3	4	5	6	7	8	9	A	10	11	12	13	16	17	16	17		8.9	17.0	
16-Oct-06	17	17	17	19	20	21	22	22	22	21	21	22	22	23	A	24	25	26	27	28	27	28	27	26		22.7	28.1	
17-Oct-06	27	30	30	28	28	27	22	21	22	21	20	20	20	22	A	26	26	22	17	14	13	16	19	21	20		22.3	30.0
18-Oct-06	17	14	8	11	11	13	20	21	20	21	20	19	A	19	19	20	23	21	16	17	15	18	16	13		17.0	22.7	
19-Oct-06	21	21	18	18	17	15	14	12	10	8	8	A	14	21	22	23	22	18	14	12	8	9	10	11		15.2	22.6	
20-Oct-06	12	12	11	7	7	6	7	9	12	14	A	20	21	22	24	30	28	27	25	22	22	21	17	22		17.4	29.9	
21-Oct-06	18	17	15	18	18	19	19	20	20	A	20	21	22	23	22	22	19	15	14	15	16	16	14	14		18.2	22.7	
22-Oct-06	12	11	10	A	9	10	10	11	12	14	15	18	19	20	20	19	17	14	4	3	10	18	29	30		14.5	29.9	
23-Oct-06	28	26	A	20	15	17	21	21	23	25	31	34	35	36	36	36	32	31	29	21	16	22	23	22		26.1	36.2	
24-Oct-06	22	A	23	21	22	18	16	21	22	23	22	24	30	36	38	36	28	30	24	24	18	25	28	29		25.3	38.5	
25-Oct-06	A	20	19	16	20	20	18	19	16	19	27	32	33	34	35	34	33	25	24	25	24	28	29	A		25.0	34.9	
26-Oct-06	31	32	33	32	30	29	27	26	28	33	35	36	37	37	36	36	35	32	30	31	27	29	A	28		31.7	37.1	
27-Oct-06	27	26	24	26	25	23	20	19	20	21	25	27	28	30	33	31	23	16	14	22	28	A	26	22		24.2	32.7	
28-Oct-06	25	26	25	24	25	27	24	21	28	29	33	31	32	29	29	28	27	28	28	29	A	30	30	30		27.8	33.1	
29-Oct-06	28	26	23	21	25	28	27	25	25	23	27	31	32	31	34	36	35	31	30	A	27	28	29	28		28.2	36.0	
30-Oct-06	26	26	26	26	23	22	23	24	22	25	27	28	29	30	31	31	31	31	30	A	28	26	26	26		26.7	31.5	
31-Oct-06	25	26	26	24	24	26	27	27	27	28	28	30	31	31	31	31	A	28	27	26	27	26	26		27.4	31.4		
Hourly Avg	18.7	17.9	17.2	17.5	16.8	16.1	15.8	15.7	16.8	19.1	21.5	23.6	25.1	26.4	27.6	28.2	26.5	23.7	20.8	19.2	18.3	18.9	19.5	19.2				
Hourly Max	30.8	31.8	32.7	31.8	30.3	28.9	27.3	26.7	28.1	32.7	35.0	36.2	37.1	36.7	38.5	36.5	34.9	32.5	30.4	30.8	28.2	29.7	30.5	30.2				

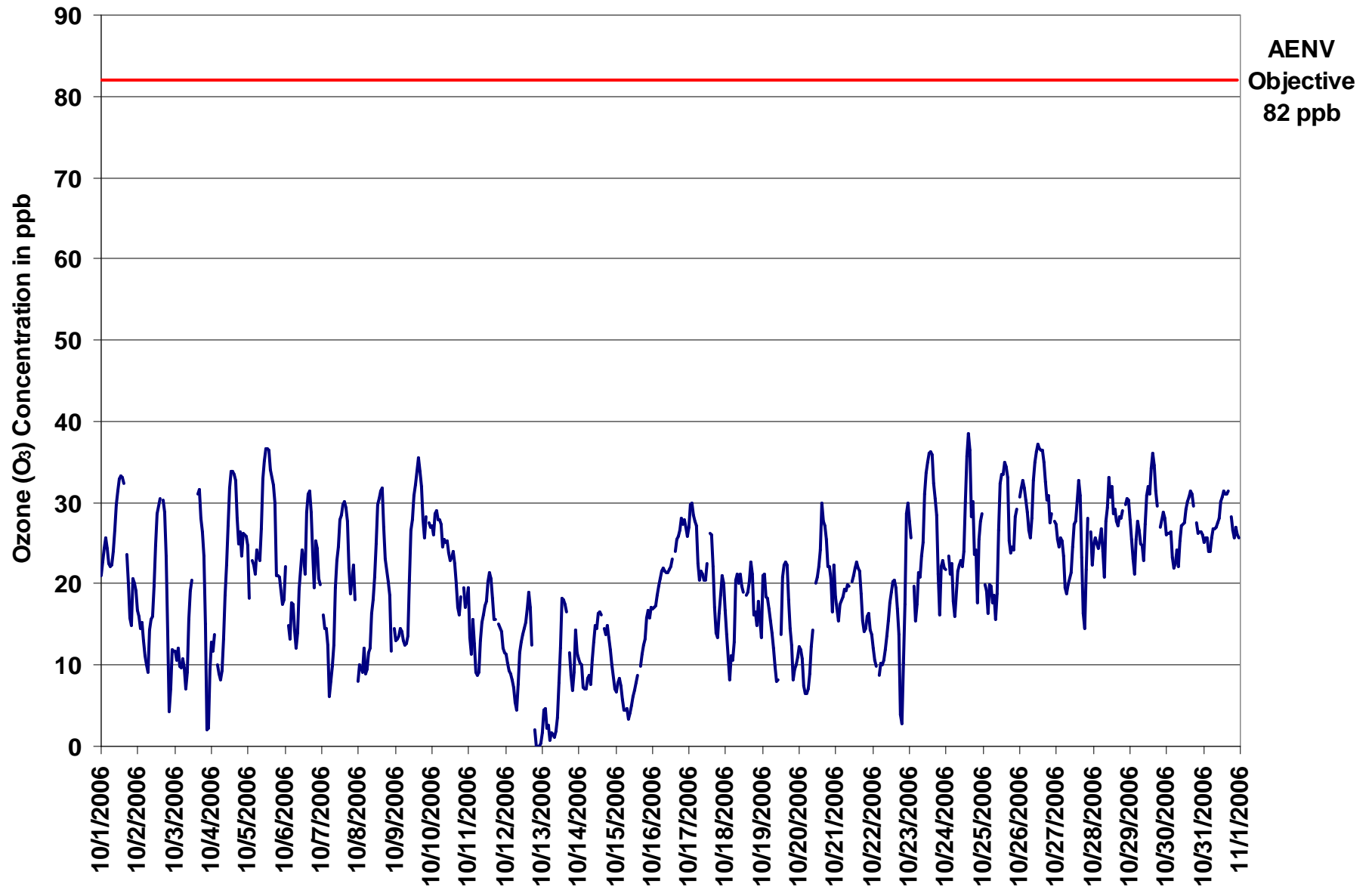


Figure 48. PASZA - Portable-Fahler Ozone 1-hr Average Monthly Trend

Station: Portable-Fahler
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

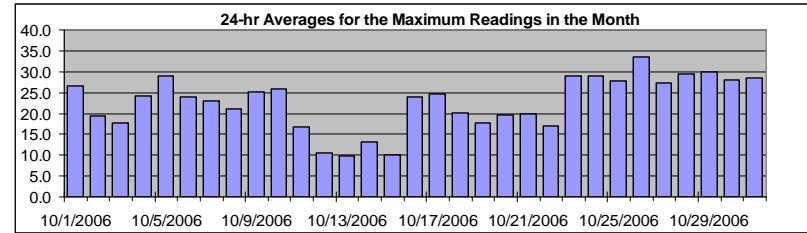
Ozone (O₃)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	40.1	ppb	24-Oct	13:00 14:00
Maximum 24-hr Value:	33.5	ppb	26-Oct	

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
	38.1	35.1	29.1	23.6	16.5	8.5	3.1	22.7 ppb	23.6 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-Oct-06	23	23	26	27	26	24	23	23	26	28	32	33	34	34	34	A	28	25	20	20	22	22	22	22	26.6	33.9
2-Oct-06	18	18	17	16	14	15	12	12	16	17	17	24	27	31	32	A	31	32	27	25	7	10	14	13	19.3	31.8
3-Oct-06	13	12	14	12	11	13	11	9	13	19	20	22	C	C	A	32	33	32	30	26	27	4	7	13	17.7	32.9
4-Oct-06	16	14	16	A	13	11	11	11	16	20	25	30	34	35	35	35	34	32	28	28	26	29	27	28	24.2	35.5
5-Oct-06	26	21	A	25	26	23	29	25	24	33	36	37	38	38	38	37	34	33	27	24	24	24	22	24	29.1	38.3
6-Oct-06	24	A	17	16	21	20	18	15	17	22	23	25	25	24	31	32	33	33	26	25	28	28	23	24	24.0	33.5
7-Oct-06	A	20	18	17	17	15	11	12	17	23	24	26	30	30	31	31	30	30	26	24	23	25	24	A	23.0	31.3
8-Oct-06	14	13	13	13	16	14	14	15	16	19	19	24	28	32	32	33	33	32	26	24	23	17	A	15	21.1	33.1
9-Oct-06	15	15	16	17	16	14	14	15	17	24	28	30	32	33	35	37	36	33	31	28	32	A	31	31	25.2	36.8
10-Oct-06	29	29	32	32	29	30	30	26	27	28	27	25	26	26	26	25	24	20	18	21	A	21	20	22	25.8	31.8
11-Oct-06	23	17	15	17	15	11	11	13	14	17	17	18	20	22	22	20	17	17	A	16	15	13	12	16.9	23.2	
12-Oct-06	12	12	11	10	10	9	7	6	11	13	14	15	16	16	19	20	19	16	A	4	2	1	1	1	10.6	19.7
13-Oct-06	4	6	6	4	4	2	3	2	2	3	6	10	16	20	20	19	20	A	13	12	8	17	17	13	9.9	20.1
14-Oct-06	13	12	12	10	9	9	10	10	10	12	15	16	15	18	18	18	A	16	15	16	14	13	12	9	13.1	18.2
15-Oct-06	8	9	9	9	7	5	5	6	4	5	6	8	9	11	11	A	11	13	13	14	17	17	17	18	10.0	17.7
16-Oct-06	18	18	18	20	20	21	22	22	22	22	22	23	23	24	A	26	27	27	29	30	29	30	29	27	23.9	29.8
17-Oct-06	30	32	31	30	29	29	24	22	23	23	21	22	25	A	28	28	26	21	18	18	18	20	22	25	24.6	31.8
18-Oct-06	30	21	12	15	12	19	22	22	21	23	21	20	A	22	22	24	25	24	19	19	18	20	17	15	20.2	30.5
19-Oct-06	24	23	20	19	18	17	15	15	11	11	10	A	19	28	25	25	26	24	19	15	9	12	11	14	17.7	27.5
20-Oct-06	13	13	12	9	8	8	9	10	14	17	A	24	23	24	26	33	31	30	29	26	24	24	19	29	19.7	32.8
21-Oct-06	20	21	18	20	20	20	20	22	21	A	22	23	24	24	23	23	22	18	15	16	17	17	16	15	19.9	23.8
22-Oct-06	14	12	12	A	11	11	11	12	13	15	17	19	21	22	22	19	18	13	5	20	24	31	31	17.0	31.5	
23-Oct-06	30	27	A	22	20	22	24	23	25	29	33	35	37	38	37	38	34	34	32	28	18	27	26	24	29.0	38.4
24-Oct-06	24	A	25	24	26	25	21	24	27	28	27	30	33	40	40	39	35	34	26	29	24	28	30	30	29.1	40.1
25-Oct-06	A	23	21	20	21	21	20	21	20	21	30	35	35	36	37	36	35	31	27	28	30	31	32	A	27.8	36.7
26-Oct-06	32	34	34	33	32	30	30	27	32	35	38	38	39	38	38	38	37	36	32	32	29	30	A	29	33.5	38.6
27-Oct-06	28	28	27	27	27	27	25	22	22	26	27	29	30	32	35	36	29	20	21	31	31	A	29	24	27.3	35.6
28-Oct-06	27	27	27	27	27	30	25	24	30	33	35	33	34	30	31	30	28	29	29	31	A	31	32	32	29.5	34.6
29-Oct-06	30	27	25	24	29	29	28	26	27	25	30	32	33	33	38	38	37	33	31	A	27	29	30	29	29.9	38.0
30-Oct-06	28	28	28	27	25	24	25	26	23	27	28	29	30	31	32	32	32	30	A	29	27	28	27	27	28.1	32.5
31-Oct-06	26	27	27	25	25	27	27	27	27	28	30	32	32	32	31	32	32	A	29	28	27	28	27	27	28.4	32.2
Hourly Avg	21.2	20.0	19.2	19.5	18.8	18.6	18.1	17.6	19.0	21.5	23.3	25.5	27.2	28.4	29.3	30.1	28.8	26.8	23.7	22.6	21.3	21.4	21.7	21.5		
Hourly Max	32.4	33.9	34.1	32.9	31.8	30.4	30.3	27.4	31.9	34.5	37.5	37.5	38.6	40.1	39.7	39.1	36.6	36.1	32.0	32.1	31.5	30.7	31.9	31.6		

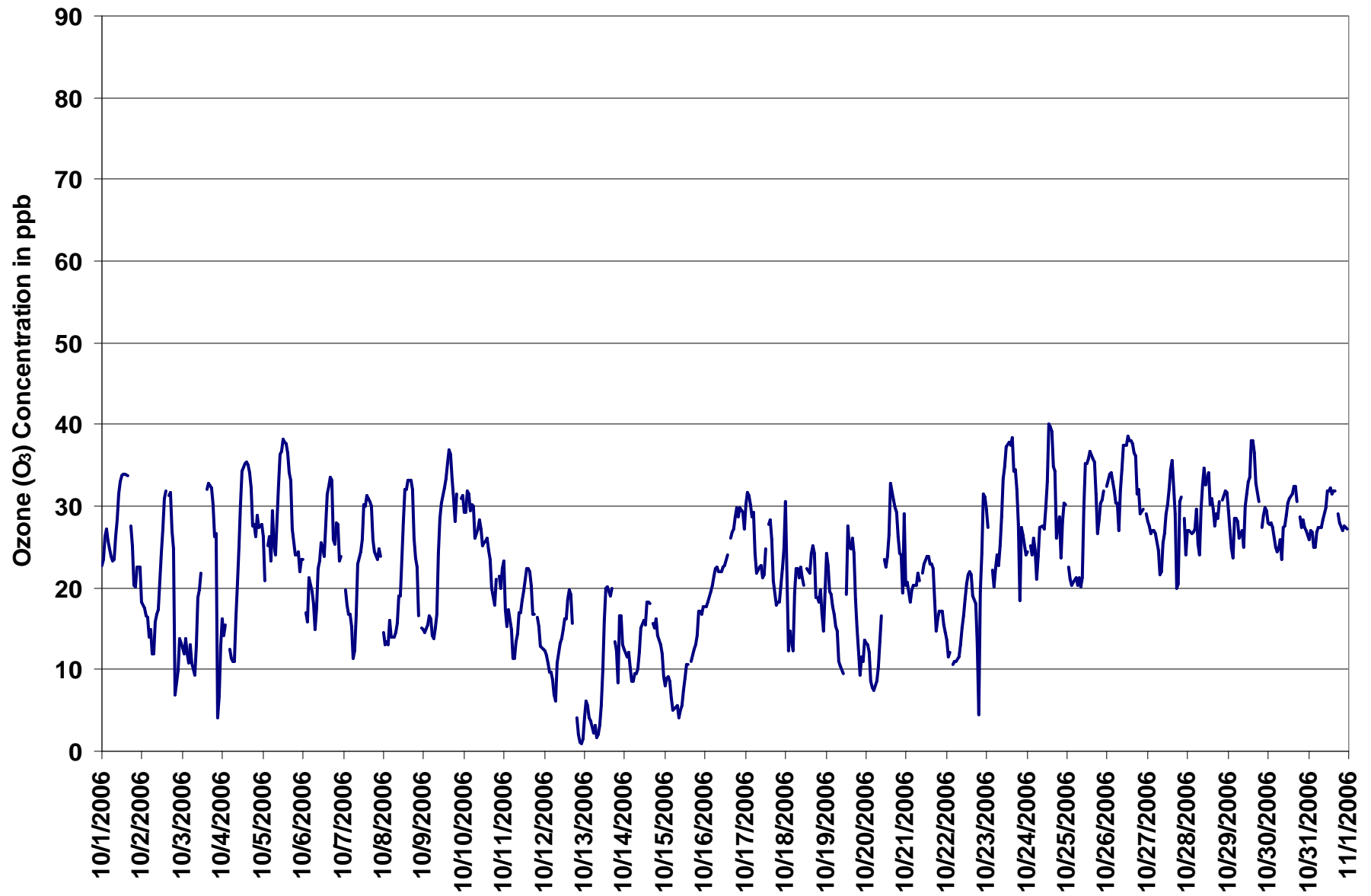
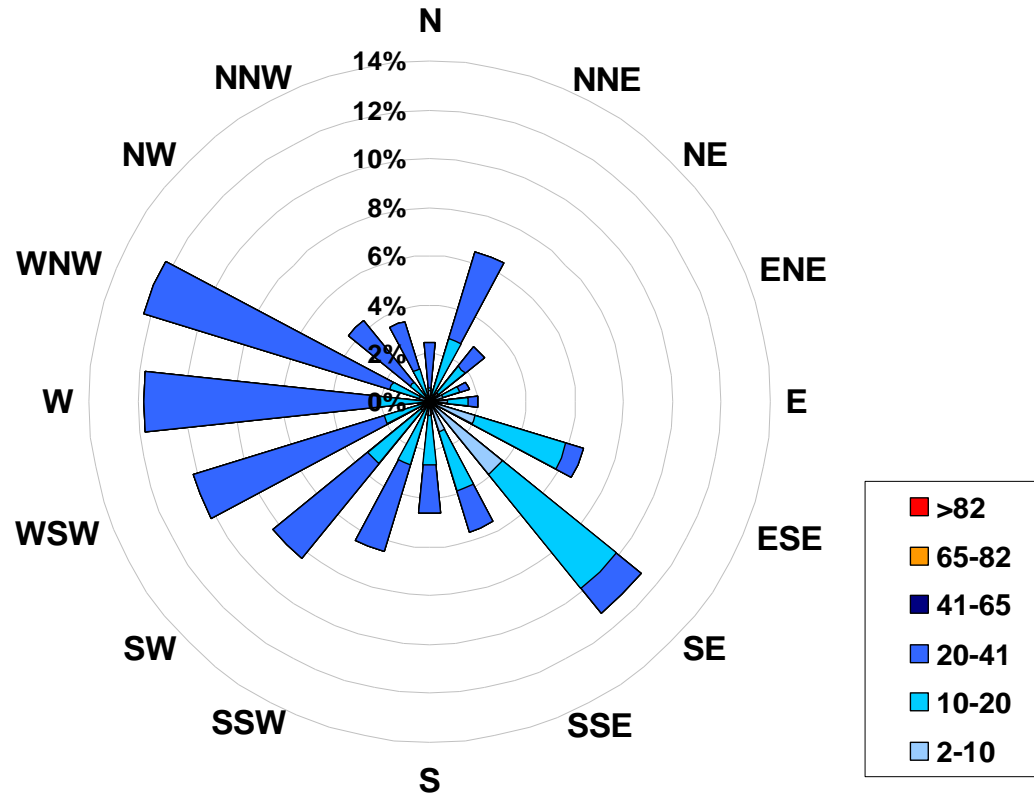


Figure 49. PASZA - Portable-Fahler Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Portable-Fahler Site for October 2006



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	<	10	92
10	to	20	229
20	to	41	388
41	to	65	0
65	to	82	0
	>	82	0
Total Non-Zero Values			709

PASZA - Portable-Fahler - Ozone Monthly Summary

Station: Portable-Fahler
 Station Owner: PASZA

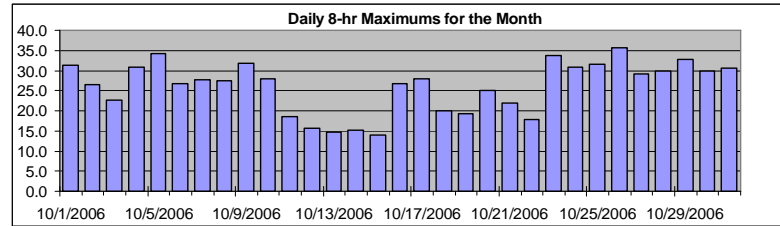
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	35.7	ppb	26-Oct	16:00	17:00		



Percentile	99	95	75	50	25	5	1
	33.7	30.9	26.5	21.1	14.5	8.6	2.3

Status Flag Characters

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

Day	Mountain Standard Time																							Daily Maximum			
Hour Start	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-Oct-06	27	26	25	25	24	24	23	23	23	24	25	25	26	28	29	30	31	31	30	27	25	23	21	19		31.3	
2-Oct-06	19	18	17	17	17	16	14	13	13	13	13	14	15	17	20	21	24	26	27	26	23	20	17	16		26.6	
3-Oct-06	14	12	10	10	11	11	11	10	10	10	11	13	13	N	N	N	N	N	N	N	23	20	17		22.5		
4-Oct-06	15	13	11	10	9	10	11	11	11	12	13	15	17	21	24	27	29	30	31	31	30	29	28	27		30.7	
5-Oct-06	26	24	24	24	24	23	23	22	22	23	25	26	28	30	31	33	34	34	33	31	29	27	24	22		34.2	
6-Oct-06	21	20	19	18	17	17	17	16	15	15	16	18	18	19	21	23	25	26	27	26	26	27	26	24		26.6	
7-Oct-06	23	21	20	19	18	15	13	12	12	12	13	14	16	19	22	24	27	28	27	27	26	25	24	23		27.6	
8-Oct-06	20	17	15	14	13	11	10	10	10	11	12	14	15	18	21	23	25	27	27	27	27	24	23	21		27.4	
9-Oct-06	18	16	15	14	14	14	14	13	13	14	16	18	20	22	25	28	30	32	32	31	31	31	30	29		31.8	
10-Oct-06	28	27	27	28	28	28	28	27	27	27	27	26	25	25	24	24	23	22	21	21	20	20	19	18		27.9	
11-Oct-06	18	17	17	16	16	15	14	12	12	12	12	13	13	15	16	18	18	18	18	19	18	17	16	15		18.5	
12-Oct-06	14	13	12	12	11	10	9	8	8	8	8	9	10	11	12	14	15	15	16	14	12	10	7	5		15.6	
13-Oct-06	2	1	2	2	2	2	2	2	2	2	2	3	4	6	8	10	12	13	14	15	14	13	12	11		14.6	
14-Oct-06	10	10	10	10	10	10	9	9	8	8	9	10	11	12	13	14	15	15	15	15	15	14	13	12		15.2	
15-Oct-06	12	11	10	9	8	7	7	6	6	5	5	5	5	5	6	6	7	8	9	10	11	13	14	14		14.0	
16-Oct-06	15	16	16	17	17	18	19	19	20	20	21	21	22	22	22	22	23	23	24	25	26	26	26	27		26.7	
17-Oct-06	27	27	28	28	28	28	27	27	26	25	24	23	22	21	22	23	23	22	21	20	19	19	19	18		28.0	
18-Oct-06	17	17	16	16	15	14	14	14	15	16	17	18	19	20	20	20	20	20	20	19	19	19	18	17		20.1	
19-Oct-06	17	17	17	18	18	17	17	17	16	14	13	12	12	12	14	15	17	18	19	18	18	16	15	13		19.2	
20-Oct-06	12	11	11	10	10	10	9	9	9	9	9	11	13	15	18	21	23	25	25	25	25	25	24	23		25.1	
21-Oct-06	22	21	19	19	18	18	18	18	18	19	19	20	20	21	21	21	21	20	20	19	18	17	16	15		21.8	
22-Oct-06	15	14	13	13	12	11	11	10	10	11	11	12	14	15	16	17	18	18	16	15	13	13	14	15		17.9	
23-Oct-06	17	18	20	23	23	23	22	21	21	20	22	24	26	28	30	32	33	34	34	34	32	30	28	26	24		33.8
24-Oct-06	23	22	21	21	22	22	21	21	21	21	21	21	22	24	27	29	30	31	31	31	29	28	27	26		30.9	
25-Oct-06	25	24	23	22	22	22	20	19	18	18	19	21	23	25	27	29	31	32	31	30	29	29	28	27		31.7	
26-Oct-06	27	28	29	30	31	31	30	30	29	30	30	30	31	32	33	35	36	36	35	34	33	32	32	30		35.7	
27-Oct-06	29	28	27	27	26	26	25	24	23	22	22	23	23	24	25	27	27	27	25	25	25	24	23	22		29.3	
28-Oct-06	22	23	25	25	25	25	25	25	25	25	26	27	28	28	29	30	30	30	29	29	28	28	29	29		29.8	
29-Oct-06	29	29	28	27	27	26	26	25	25	25	25	26	27	28	29	30	31	32	32	33	32	32	31	30		32.7	
30-Oct-06	28	28	27	27	27	26	25	25	24	24	24	24	25	26	27	28	29	30	30	30	30	29	28	28		30.0	
31-Oct-06	27	26	26	26	25	25	25	25	26	26	26	26	27	28	29	29	30	30	31	31	30	29	28	27		30.6	

Hourly Max	29.3	28.7	28.8	29.8	30.7	30.8	30.4	29.8	29.5	29.6	29.9	30.4	31.3	32.3	33.5	34.9	35.7	35.7	35.1	34.4	33.2	32.2	31.6	30.4
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PASZA - Portable-Fahler - Total Reduced Sulphur Monthly Summary

Station: Portable-Fahler
 Station Owner: PASZA

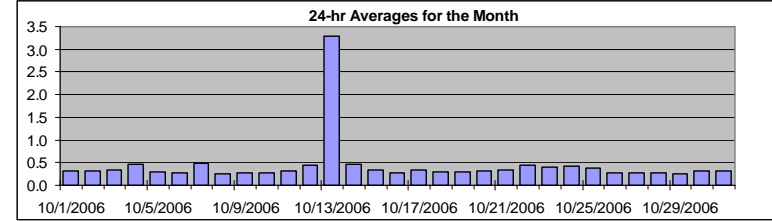
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: October 1, 2006 to November 1, 2006

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

Maximum 1-hr Average:	25.2	ppb	13-Oct	5:00	6:00
Maximum 24-hr Value:	3.3	ppb	13-Oct		



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
	2.2	0.6	0.4	0.3	0.3	0.2	0.2	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	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-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	1	0	0	0.3	0.7
2-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	1	0	0	0	0.3	1.0
3-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	A	0	0	0	0	0	1	1	1	0.3	0.9
4-Oct-06	0:00	1	1	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.3
5-Oct-06	0:00	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
6-Oct-06	0:00	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
7-Oct-06	A	0	0	0	0	1	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.5	3.9
8-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.5
9-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.3
10-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.4
11-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.3	0.4
12-Oct-06	0:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	1	1	1	0.4	0.9
13-Oct-06	1	0	0	0	1	25	13	2	16	5	4	2	0	0	0	0	0	A	0	0	0	0	1	1	1	3.3	25.2
14-Oct-06	0:00	0	0	1	1	2	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.5	2.3
15-Oct-06	0:00	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
16-Oct-06	0:00	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	0.4
17-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
18-Oct-06	0:00	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	0.4
19-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
20-Oct-06	0:00	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
21-Oct-06	0:00	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
22-Oct-06	0:00	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	0.4	0.7
23-Oct-06	0:00	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.4	0.5
24-Oct-06	0:00	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0.4	0.5
25-Oct-06	A	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.4	0.7
26-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.4
27-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.3
28-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.3
29-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.3	0.3
30-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.3	0.4
31-Oct-06	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.3	0.4
Hourly Avg		0.3	0.3	0.3	0.3	0.4	1.2	0.8	0.3	0.8	0.6	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4		
Hourly Max		0.8	0.7	0.9	0.8	1.1	25.2	13.4	1.6	15.8	5.4	4.1	2.5	0.4	0.5	0.5	0.5	0.5	0.6	0.7	0.7	1.0	0.7	0.9	0.8		

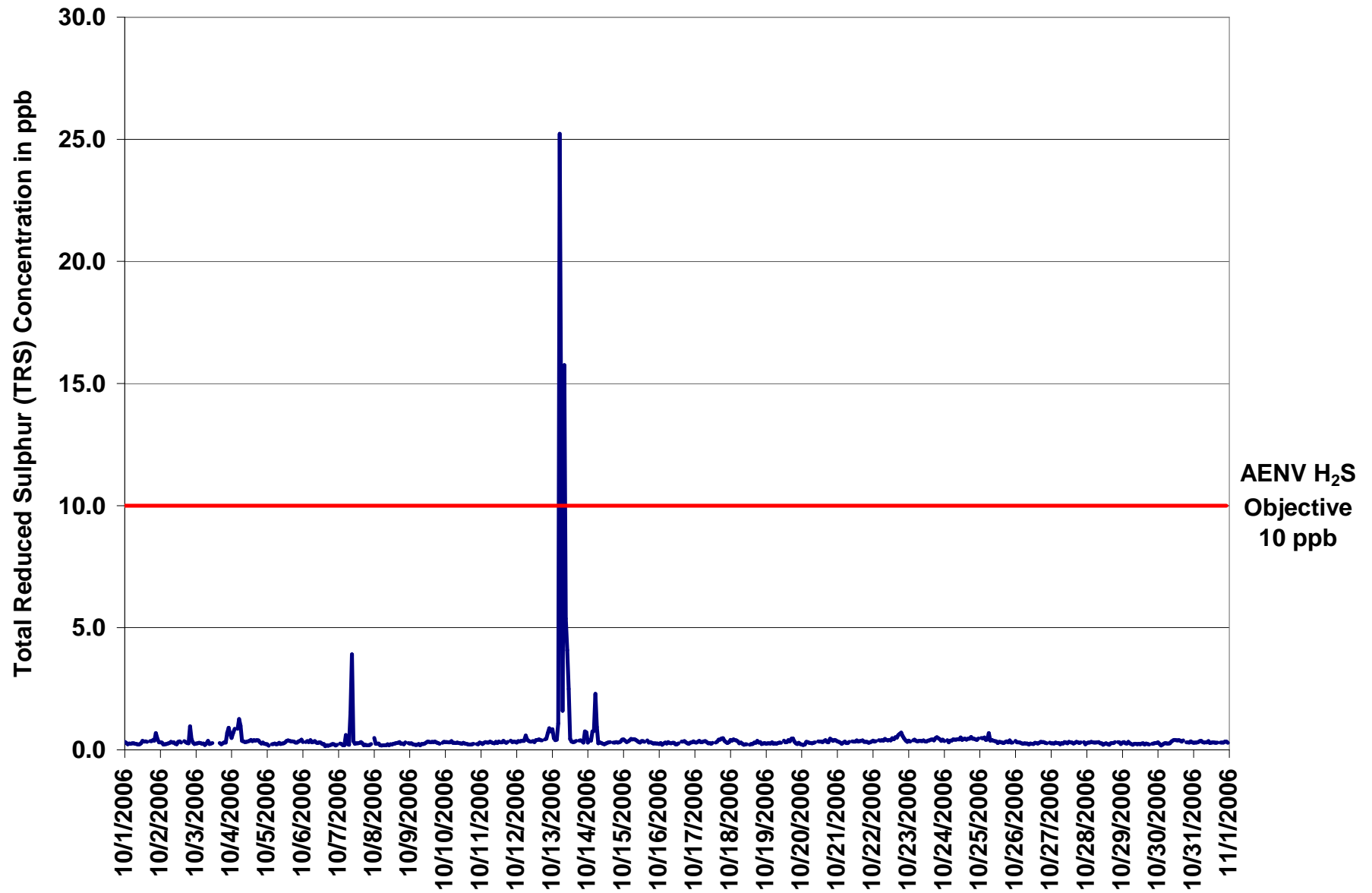


Figure 50. PASZA - Portable-Fahler Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Portable-Fahler
 Station Owner: PASZA

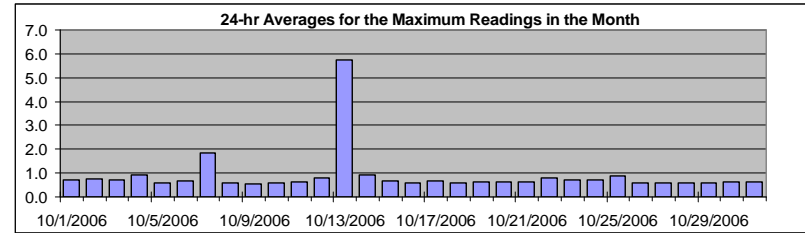
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	34.5	ppb	13-Oct	5:00 6:00
Maximum 24-hr Value:	5.8	ppb	13-Oct	



AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.1	1.1	0.7	0.6	0.6	0.5	0.5	0.9 ppb	0.6 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.7	1.5
2-Oct-06	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	3	1	1	1	0.7	2.5
3-Oct-06	1	1	1	1	1	1	1	1	1	1	0	1	C	C	C	A	1	1	1	1	1	1	1	1	1	0.7	1.5
4-Oct-06	1	1	1	A	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	2.3
5-Oct-06	1	1	A	1	0	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
6-Oct-06	1	A	1	1	1	3	1	1	1	1	0	1	1	1	1	0	0	0	0	0	1	1	0	1	0.7	2.7	
7-Oct-06	A	1	1	0	1	2	1	0	11	17	1	1	1	1	1	1	1	1	1	0	0	0	1	A	1.8	16.8	
8-Oct-06	2	1	1	1	0	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	A	1	0.6	1.7	
9-Oct-06	1	1	1	1	0	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.6	0.7	
10-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	A	1	1	1	0.6	0.8	
11-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.6	0.9	
12-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	2	2	1	0.8	1.6
13-Oct-06	2	1	1	1	4	35	31	4	25	9	5	6	1	1	1	1	1	A	1	1	1	1	2	2	5.8	34.5	
14-Oct-06	1	1	1	1	2	3	3	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.9	3.3	
15-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.7	0.9	
16-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.6	0.8	
17-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0	1	1	1	1	1	1	1	1	1	0.7	0.9	
18-Oct-06	1	1	1	1	1	1	1	1	1	0	0	0	A	1	1	1	1	1	1	1	1	1	0	1	0.6	0.8	
19-Oct-06	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.9	
20-Oct-06	1	1	1	1	1	1	1	0	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	1.0	
21-Oct-06	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8	
22-Oct-06	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.4	
23-Oct-06	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8	
24-Oct-06	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9	
25-Oct-06	A	1	1	1	1	1	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	5.1	
26-Oct-06	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.6	0.7	
27-Oct-06	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.6	0.7	
28-Oct-06	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.6	0.8	
29-Oct-06	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	0	1	0	1	A	1	1	1	1	0.6	0.8	
30-Oct-06	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.6	0.9	
31-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.6	0.8	
Hourly Avg	0.7	0.7	0.6	0.7	0.8	1.9	1.9	0.7	1.7	1.4	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.8	0.7		
Hourly Max	1.7	1.0	1.2	1.4	4.4	34.5	31.0	3.6	25.1	16.8	5.0	6.2	0.8	0.8	0.9	0.8	0.9	1.4	1.3	1.3	2.5	1.5	2.0	1.7			

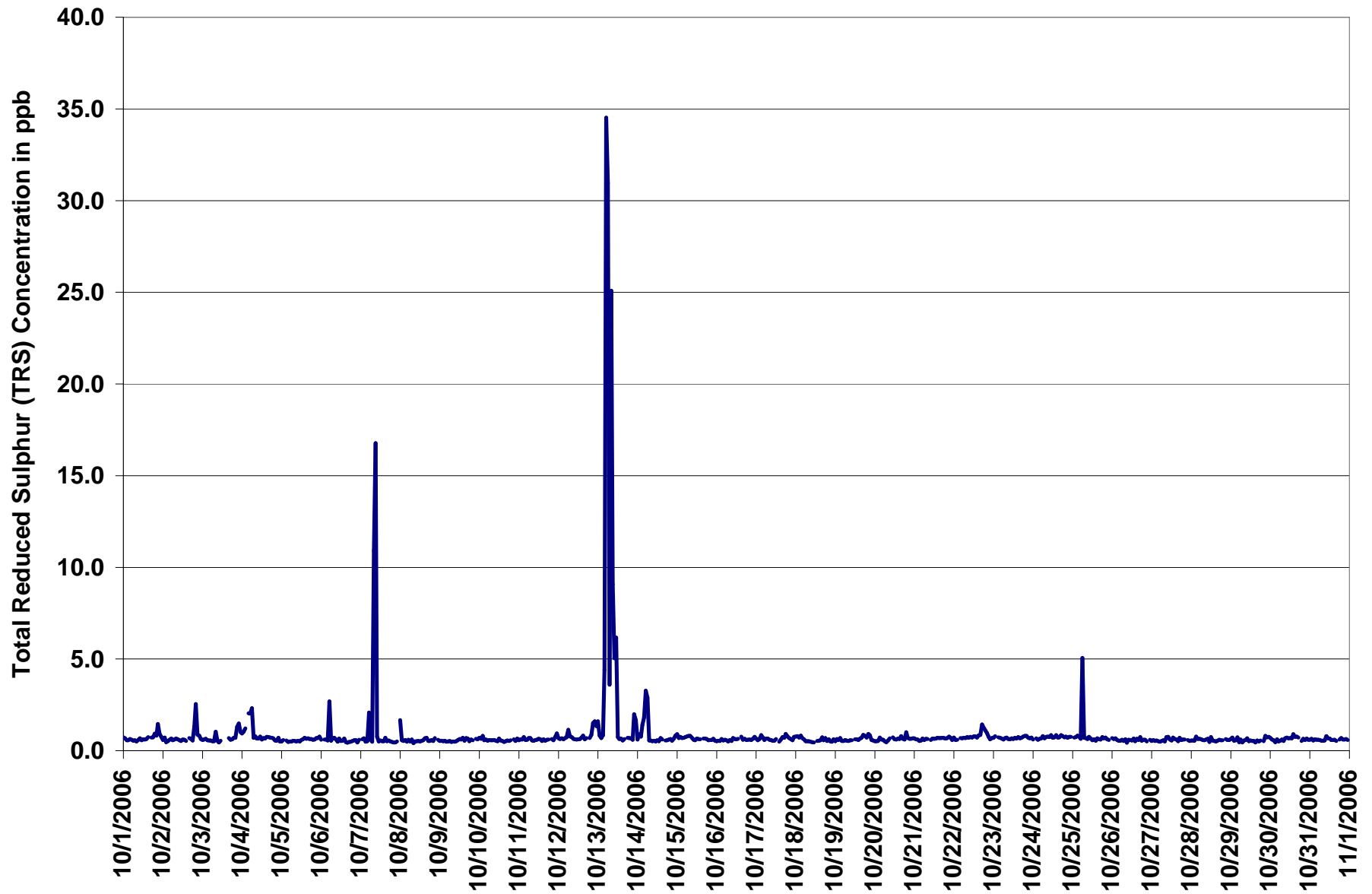
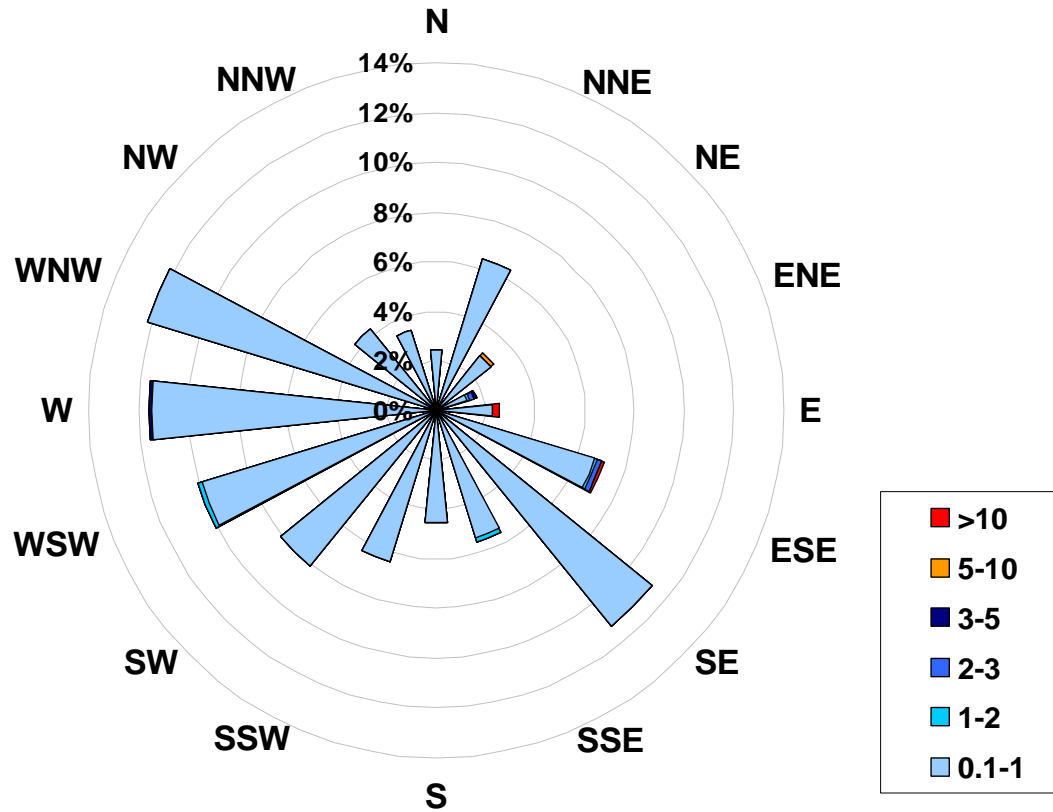


Figure 51. PASZA - Portable-Fahler Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Portable-Fahler Site for October 2006**



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	696
1	to	2	4
2	to	3	2
3	to	5	2
5	to	10	1
	>	10	3
Total Non-Zero Values			708

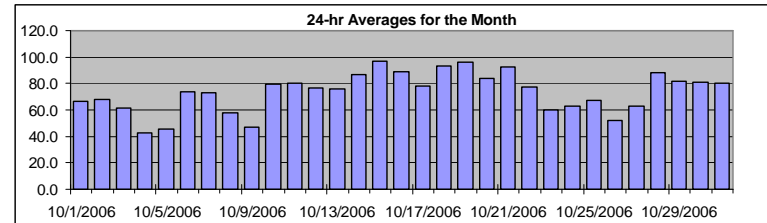
PASZA - Portable-Fahler - Relative Humidity Monthly Summary

Station: Portable-Fahler
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: October 1, 2006 to November 1, 2006



Summary

Maximum 1-hr Average:	99.0 %	21-Oct	3:00 4:00
Maximum 24-hr Value:	96.7 %	15-Oct	

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	
	98.2	97.0	88.8
	78.5	62.7	33.8
			21.5
			73.4 %
			Median
			78.5 %

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	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-Oct-06			73	70	69	66	69	76	81	84	80	74	65	55	48	41	34	33	53	67	69	75	79	75	77	80	66.4	84.5
2-Oct-06			84	87	90	91	92	92	91	91	89	85	80	70	54	42	35	32	32	34	40	45	58	67	70	73	67.7	92.1
3-Oct-06			77	79	81	84	83	84	86	85	77	69	59	52	46	40	36	34	33	34	38	48	56	65	65	66	61.5	86.1
4-Oct-06			65	68	70	75	80	81	81	80	71	55	42	28	17	11	9	12	14	16	19	21	24	25	27	28	42.4	81.4
5-Oct-06			29	34	33	36	40	42	39	44	43	37	28	28	33	42	47	53	50	51	58	62	62	65	66	67	45.4	67.5
6-Oct-06			69	73	75	75	84	86	87	86	84	77	70	63	62	67	58	54	58	60	70	76	79	84	88	90	73.9	89.5
7-Oct-06			91	95	98	98	99	99	97	98	98	85	71	64	57	53	46	43	42	41	52	59	61	63	69	76	73.0	98.5
8-Oct-06			79	80	82	82	82	84	79	78	72	66	59	51	42	36	35	29	27	31	37	42	47	55	63	63	58.1	84.0
9-Oct-06			67	67	68	69	71	73	76	75	72	57	39	34	30	27	24	23	24	26	30	32	31	35	38	46	47.2	75.5
10-Oct-06			54	61	66	69	70	71	73	78	84	92	91	88	88	86	81	80	78	81	83	84	85	86	88	87	79.4	91.7
11-Oct-06			86	91	91	90	90	90	91	93	95	88	85	77	69	62	59	59	63	68	71	75	79	83	85	87	80.4	95.3
12-Oct-06			89	90	91	90	89	90	91	91	87	80	76	69	63	60	57	55	57	61	68	73	75	78	78	77	76.5	91.2
13-Oct-06			79	83	84	84	87	87	89	89	87	86	84	76	69	62	60	60	60	60	66	71	73	73	73	79	76.0	88.9
14-Oct-06			82	82	82	87	89	89	88	87	85	81	78	74	73	74	83	88	91	91	93	93	95	97	97	98	86.6	97.9
15-Oct-06			98	98	98	98	98	98	98	98	98	98	97	96	95	96	97	96	94	94	95	96	97	97	96	96	96.7	98.3
16-Oct-06			95	95	94	94	93	93	93	93	92	90	89	88	87	86	87	84	84	85	84	83	85	84	84	85	88.6	95.4
17-Oct-06			84	81	81	83	83	82	87	89	87	84	80	76	70	63	61	61	68	72	76	78	80	81	81	84	78.0	89.0
18-Oct-06			88	88	92	90	89	87	94	98	98	98	97	97	96	93	93	92	90	91	94	93	94	93	97	98	93.3	98.1
19-Oct-06			96	96	96	95	96	95	95	95	95	95	95	96	95	95	95	96	95	97	98	98	96	95	96	97	95.8	98.4
20-Oct-06			96	96	96	97	97	97	97	96	95	93	86	82	81	78	73	62	67	68	71	76	75	77	83	79	84.0	97.3
21-Oct-06			82	91	99	99	98	96	96	96	96	96	95	94	92	89	88	85	87	91	93	93	92	90	91	92	92.5	99.0
22-Oct-06			93	93	92	92	91	90	89	88	85	80	75	70	67	64	62	64	65	69	80	89	78	64	54	55	77.0	93.1
23-Oct-06			61	66	70	75	79	77	72	74	70	61	51	46	43	41	40	41	47	50	52	57	68	64	64	67	59.8	79.4
24-Oct-06			67	65	63	66	62	68	70	64	67	63	64	65	57	50	41	40	51	56	66	71	73	66	64	81	62.6	80.8
25-Oct-06			92	92	93	91	84	84	86	84	83	78	65	48	45	43	39	39	42	51	57	58	65	62	63	62	66.9	93.1
26-Oct-06			63	61	59	61	64	68	71	73	66	52	45	39	34	34	31	32	34	39	46	47	55	55	56	58	51.8	72.6
27-Oct-06			60	63	64	64	65	67	68	73	69	65	60	56	54	49	43	42	47	52	56	60	68	81	89	96	63.0	96.2
28-Oct-06			98	97	98	98	97	96	96	96	94	93	90	88	85	86	83	81	83	81	81	81	82	81	79	80	88.5	97.7
29-Oct-06			84	86	90	88	86	84	85	87	87	85	77	73	72	77	71	67	67	83	84	85	86	85	83	84	81.5	89.7
30-Oct-06			88	91	91	89	89	90	91	88	86	84	81	78	73	72	71	69	72	75	76	78	81	79	78	82	81.3	91.2
31-Oct-06			83	87	89	86	85	83	85	86	83	80	77	74	71	70	72	73	74	76	79	84	84	82	83	85	80.5	88.9
Hourly Avg			79.0	80.9	82.1	82.6	83.2	83.8	84.6	85.0	83.1	78.2	72.6	67.6	63.5	60.9	58.4	57.4	59.6	63.0	67.3	70.5	73.0	73.7	74.9	77.3		
Hourly Max			97.6	97.8	98.8	99.0	98.5	98.5	97.6	98.3	98.2	97.8	97.4	96.9	96.5	96.8	96.5	96.2	95.4	97.2	98.4	98.2	96.7	96.7	97.4	97.9		

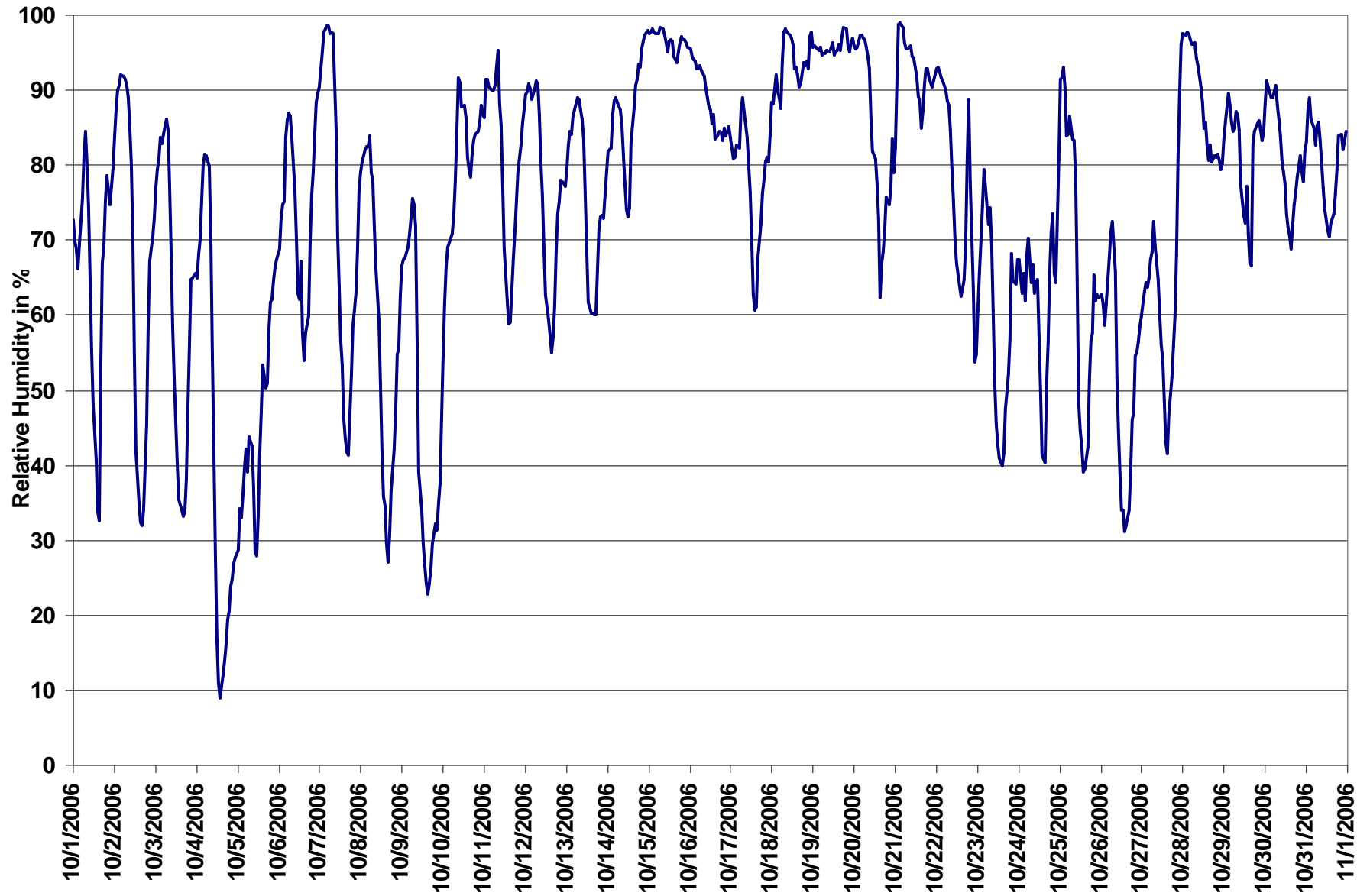


Figure 52. PASZA - Portable-Fahler Relative Humidity 1-hr Average Monthly Trend

PASZA - Portable-Fahler - Temperature Monthly Summary

Station: Portable-Fahler
 Station Owner: PASZA

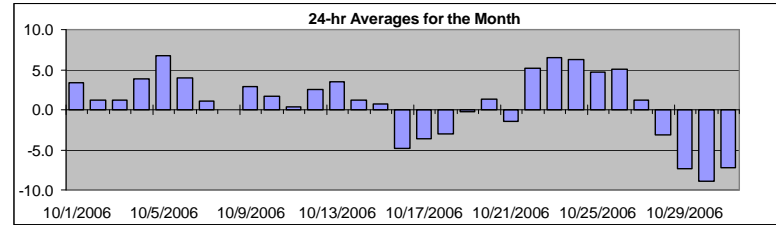
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	14.7 °C	4-Oct	14:00 15:00
Maximum 24-hr Value:	6.8 °C	5-Oct	



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
	12.0	9.6	4.4	1.1	-3.3	-7.8	-10.8	0.8 °C	1.1 °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	23:00	0:00		
1-Oct-06	4	4	4	4	2	1	0	0	2	3	5	7	7	8	9	8	6	4	4	2	0	0	-1	-2	3.4	8.7	
2-Oct-06	-3	-4	-5	-4	-4	-3	-2	-2	-1	0	1	3	6	8	9	10	9	8	6	4	0	-3	-3	-3	1.2	9.6	
3-Oct-06	-4	-5	-5	-6	-6	-6	-6	-6	-3	0	3	5	7	9	10	11	11	11	8	5	3	-2	-3	-4	1.2	11.1	
4-Oct-06	-3	-4	-4	-5	-6	-6	-7	-7	-2	2	5	8	12	14	15	15	14	12	10	8	7	6	6	6	3.9	14.7	
5-Oct-06	5	3	4	4	3	3	4	3	4	7	10	11	12	12	11	10	10	9	7	7	7	6	6	5	6.8	12.1	
6-Oct-06	5	4	3	3	3	3	3	2	3	4	5	6	6	6	6	7	7	6	4	2	3	2	2	1	4.0	6.9	
7-Oct-06	1	0	-1	-2	-4	-6	-6	-5	-3	0	2	4	6	7	7	8	8	7	4	2	1	0	-1	-4	1.1	7.9	
8-Oct-06	-5	-5	-7	-7	-7	-8	-7	-5	-3	-1	1	4	6	8	8	9	9	7	4	3	1	-2	-2	-4	0.0	9.1	
9-Oct-06	-5	-5	-5	-5	-5	-6	-7	-7	-5	0	4	7	9	10	11	12	12	10	9	8	8	8	7	6	2.9	12.0	
10-Oct-06	5	4	4	4	3	3	2	2	1	1	1	1	1	2	2	2	2	2	1	1	0	-1	-2	-1	1.7	5.2	
11-Oct-06	-1	-3	-4	-4	-5	-5	-5	-4	-2	-1	0	2	4	6	7	7	6	5	4	2	1	0	0	0	0.4	6.8	
12-Oct-06	0	-1	-1	0	0	0	0	-1	0	1	3	4	6	7	8	9	8	7	5	3	1	1	0	1	2.6	8.5	
13-Oct-06	2	2	2	2	2	2	2	2	2	3	3	5	6	7	8	8	7	6	4	2	1	2	3	1	3.4	7.9	
14-Oct-06	-1	-2	-2	-3	-2	-2	-1	-1	0	1	3	3	4	4	4	3	3	3	2	2	2	2	2	2	1.2	4.3	
15-Oct-06	2	2	2	2	2	2	2	2	2	2	3	3	2	2	1	1	0	-1	-1	-2	-2	-2	-3	-3	0.7	2.7	
16-Oct-06	-3	-3	-4	-4	-5	-5	-5	-6	-6	-5	-5	-5	-5	-4	-4	-4	-5	-5	-5	-5	-6	-6	-6	-6	-4.9	-3.0	
17-Oct-06	-5	-5	-5	-5	-5	-5	-7	-8	-7	-6	-4	-3	-1	0	1	1	0	-1	-2	-3	-3	-4	-4	-5	-3.6	1.0	
18-Oct-06	-6	-5	-7	-6	-5	-4	-3	-3	-2	-2	-1	0	1	0	1	0	-1	-2	-2	-2	-3	-3	-4	-4	-3.0	0.9	
19-Oct-06	-3	-3	-3	-3	-3	-2	-2	-2	-2	-1	0	1	2	3	3	3	4	3	3	1	0	-1	-2	-2	-0.3	3.7	
20-Oct-06	-2	-2	-2	-2	-2	-1	-1	-1	0	1	2	3	4	5	5	6	5	5	4	3	2	1	0	0	1.3	6.0	
21-Oct-06	-2	-3	-4	-3	-3	-3	-3	-3	-3	-3	-3	-2	-2	-1	-1	0	0	0	0	0	1	1	1	1	-1.4	1.3	
22-Oct-06	1	1	0	0	0	0	0	0	1	3	5	7	8	10	11	11	11	10	7	4	6	8	9	9	5.1	11.3	
23-Oct-06	8	6	5	3	2	2	2	1	3	5	8	9	11	12	12	12	11	10	9	7	5	5	5	4	6.5	12.3	
24-Oct-06	3	3	4	3	4	4	4	5	5	7	7	8	10	11	12	11	9	8	6	5	5	6	6	5	6.3	11.9	
25-Oct-06	4	4	3	2	2	1	1	2	1	3	5	7	7	8	9	9	8	6	4	5	6	6	6	7	4.7	8.9	
26-Oct-06	7	7	7	6	5	4	2	1	2	4	6	7	8	8	8	8	7	6	4	4	2	2	2	2	5.0	8.3	
27-Oct-06	1	0	0	0	0	-1	-1	-2	-1	1	2	3	3	4	4	4	3	2	1	2	2	1	0	0	1.1	4.0	
28-Oct-06	0	0	0	0	-1	-1	-1	-1	-3	-3	-3	-3	-3	-4	-4	-4	-4	-4	-4	-5	-5	-6	-6	-6	-3.1	-0.1	
29-Oct-06	-8	-9	-11	-10	-9	-9	-11	-12	-11	-10	-8	-6	-6	-5	-4	-4	-5	-5	-6	-6	-6	-6	-6	-6	-7.4	-4.4	
30-Oct-06	-8	-11	-12	-10	-10	-11	-13	-13	-14	-11	-9	-8	-7	-6	-6	-5	-5	-6	-7	-8	-10	-9	-9	-9	-9.0	-5.3	
31-Oct-06	-8	-8	-7	-8	-8	-7	-8	-8	-8	-8	-7	-6	-5	-5	-5	-5	-5	-6	-7	-10	-10	-8	-8	-9	-7.3	-4.9	
Hourly Avg	-0.7	-1.2	-1.6	-1.8	-1.9	-2.2	-2.4	-2.4	-1.6	-0.1	1.3	2.7	3.8	4.7	5.1	5.2	4.7	3.8	2.4	1.3	0.6	0.2	-0.1	-0.6			
Hourly Max	8.0	7.5	7.3	6.5	5.3	3.8	4.1	4.9	5.5	6.8	9.8	11.4	12.1	13.9	14.7	14.7	14.3	12.3	9.6	8.5	8.4	8.3	9.4	9.4			

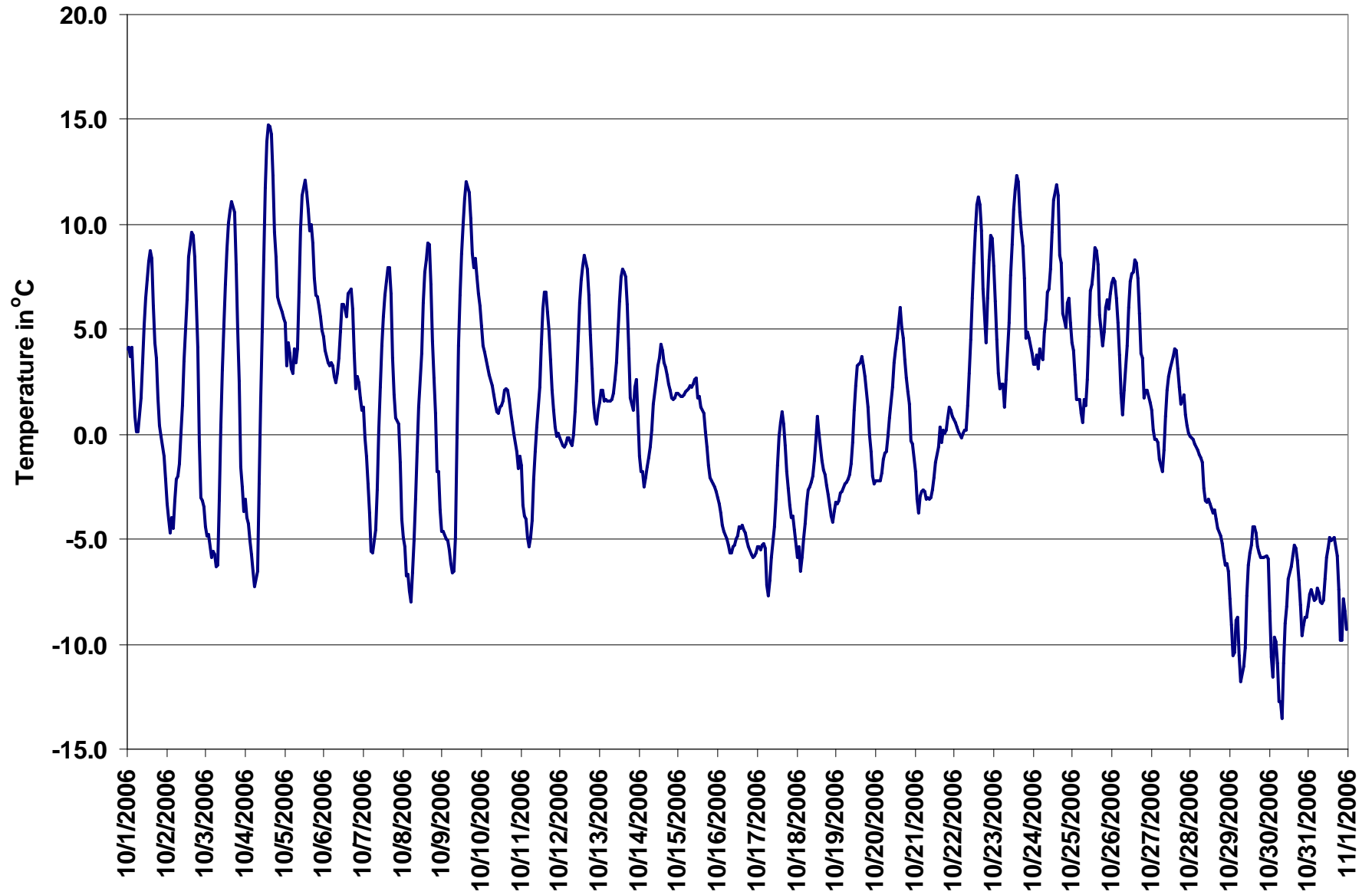


Figure 53. PASZA - Portable-Fahler Temperature 1-hr Average Monthly Trend

PASZA - Portable-Fahler - Scalar Wind Speed Monthly Summary

Station: Portable-Fahler
 Station Owner: PASZA

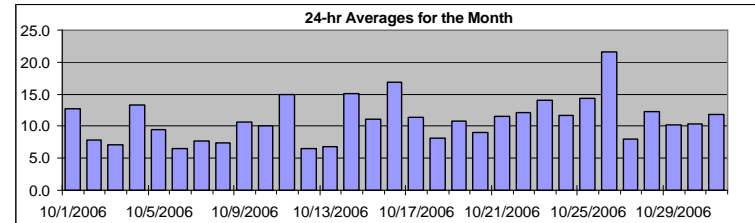
HOURLY AVERAGE TABLE

Wind Speed (WSs)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	33.7	km/hr	26-Oct	12:00	13:00
Maximum 24-hr Value:	21.5	km/hr	26-Oct		



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
	27.7	21.6	14.2	10.1	6.8	3.8	2.4	11.0 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 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-Oct-06	12	14	16	15	14	14	11	10	16	16	19	19	17	18	20	17	17	6	6	5	5	7	7	7	12.8	20.4
2-Oct-06	7	7	5	6	7	4	4	4	9	9	10	9	9	11	11	10	11	8	6	7	8	9	9	10	7.9	11.3
3-Oct-06	11	11	8	10	9	8	9	7	5	7	7	8	8	7	7	6	4	5	3	5	8	7	6	7.1	10.9	
4-Oct-06	6	2	3	7	6	8	8	9	11	14	17	21	24	25	28	27	23	13	10	14	11	13	8	13.3	27.8	
5-Oct-06	8	9	9	10	10	7	11	13	11	9	10	14	16	17	16	12	9	7	6	7	6	3	4	3	9.5	16.8
6-Oct-06	5	6	5	4	6	4	4	6	2	4	5	8	9	11	12	9	9	10	6	6	8	7	6	6	6.6	11.8
7-Oct-06	6	6	4	2	5	6	3	4	7	13	10	9	10	13	13	14	16	13	5	6	6	4	3	4	7.6	16.4
8-Oct-06	3	4	6	7	8	7	6	8	4	5	5	5	7	7	9	11	11	8	9	11	10	10	9	8	7.4	11.5
9-Oct-06	7	9	9	9	8	7	6	7	4	12	15	20	22	22	20	18	11	9	6	7	12	6	4	5	10.6	22.1
10-Oct-06	4	6	6	5	4	7	7	7	10	12	14	12	12	10	12	12	12	13	13	15	16	13	9	10	10.0	16.0
11-Oct-06	12	6	7	8	8	5	7	10	13	19	22	18	19	19	19	17	20	20	18	18	18	18	18	18	14.9	21.8
12-Oct-06	18	15	14	11	7	6	4	4	8	8	4	3	3	4	6	6	3	5	3	2	5	5	6	6	6.5	17.6
13-Oct-06	8	7	2	5	8	4	6	4	2	3	4	7	7	7	7	8	9	10	9	8	7	11	12	8	6.7	11.9
14-Oct-06	10	12	14	11	8	12	13	15	16	21	22	23	21	20	15	15	13	17	15	16	16	15	12	12	15.1	23.3
15-Oct-06	10	9	12	11	11	11	11	6	8	9	7	9	10	5	6	11	12	12	12	12	13	14	16	27	11.0	27.2
16-Oct-06	29	22	19	24	24	25	20	19	20	20	20	21	21	19	17	16	14	11	10	8	7	4	5	10	16.9	29.4
17-Oct-06	11	13	16	13	13	12	9	11	16	18	17	15	12	12	13	11	6	6	7	7	10	8	8	8	11.4	18.4
18-Oct-06	4	3	6	5	5	7	7	9	10	12	12	9	9	10	16	15	12	6	5	6	8	11	5	4	8.1	15.9
19-Oct-06	11	11	11	14	15	14	15	14	12	12	9	7	11	8	6	5	4	4	4	13	14	16	16	13	10.8	16.3
20-Oct-06	14	12	8	3	4	5	5	6	8	9	12	14	16	14	12	17	11	7	7	4	6	6	7	8	9.0	16.6
21-Oct-06	5	9	14	14	11	7	5	6	3	4	4	6	8	11	11	14	17	14	16	17	21	22	19	19	11.6	22.2
22-Oct-06	18	16	12	12	9	10	13	12	9	11	14	17	14	16	13	13	4	5	8	7	10	8	17	21	12.1	21.4
23-Oct-06	17	17	11	11	11	10	10	11	11	12	17	22	19	24	24	24	16	10	5	10	10	10	9	12	14.0	24.4
24-Oct-06	13	14	16	13	12	10	7	10	11	5	8	9	10	16	17	15	8	12	9	10	9	13	17	16	11.7	16.9
25-Oct-06	11	7	2	8	11	9	4	5	7	12	16	25	28	26	28	23	20	12	11	11	10	15	18	21	14.3	28.5
26-Oct-06	23	27	31	26	21	17	12	11	16	23	27	29	34	32	30	27	24	18	15	19	13	16	14	14	21.5	33.7
27-Oct-06	15	10	6	8	9	10	8	6	3	5	11	12	9	7	3	3	5	6	6	12	17	14	7	3	8.1	16.5
28-Oct-06	7	6	7	5	9	5	2	3	10	14	11	12	15	17	17	16	15	18	18	18	19	18	18	14	12.3	18.9
29-Oct-06	9	8	6	5	8	10	9	6	5	5	8	13	16	16	15	13	10	14	12	10	11	13	11	12	10.2	15.9
30-Oct-06	8	8	7	7	6	9	9	11	7	9	14	13	15	15	16	14	12	11	12	8	7	9	9	10	10.3	15.6
31-Oct-06	8	10	14	12	12	12	15	15	10	11	12	13	14	15	19	18	16	14	10	9	7	5	7	7	11.8	19.3
1-hr Average	10.7	10.2	9.9	9.7	9.6	9.1	8.4	8.7	9.2	11.1	12.4	13.6	14.3	14.6	14.8	14.1	12.1	10.4	9.2	9.9	10.5	10.6	10.4	10.7		
Hourly Max	29.4	26.6	30.9	26.5	24.1	24.8	20.3	19.1	20.4	23.0	26.8	28.9	33.7	31.9	30.4	26.7	24.2	20.1	18.1	18.9	20.5	22.2	18.8	27.2		

PASZA - Portable-Fahler - Vector Wind Speed Monthly Summary

Station: Portable-Fahler
 Station Owner: PASZA

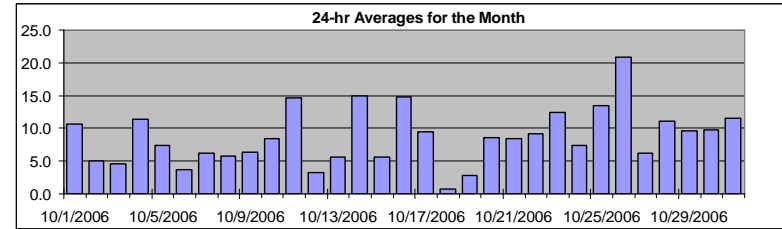
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	33.6	km/hr	26-Oct	12:00 13:00
Maximum 24-hr Value:	20.9	km/hr	26-Oct	



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
	27.4	21.3	14.0	9.9	6.5	3.2	1.8	7.0 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 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-Oct-06	12	14	16	15	14	14	11	10	16	16	19	19	16	17	20	17	13	5	5	4	4	7	7	7	10.6	20.2
2-Oct-06	7	7	5	6	6	3	4	4	9	9	10	9	8	11	10	9	10	8	6	7	8	9	9	10	5.0	10.7
3-Oct-06	11	11	8	10	9	8	9	7	5	7	7	8	7	6	7	6	5	4	4	2	5	8	7	5	4.6	10.9
4-Oct-06	6	1	2	7	6	8	8	9	11	14	17	21	24	25	28	27	23	13	10	14	11	11	13	8	11.4	27.7
5-Oct-06	8	9	9	10	10	7	10	13	11	8	10	13	15	17	16	11	9	7	6	7	6	3	4	2	7.4	16.6
6-Oct-06	5	4	5	3	6	3	4	5	2	3	5	7	9	11	11	9	9	9	6	6	8	6	6	6	3.7	11.5
7-Oct-06	6	5	4	1	4	6	3	3	7	12	10	9	9	13	12	14	16	13	5	6	6	4	0	4	6.3	16.0
8-Oct-06	2	4	5	5	2	5	5	3	3	5	5	5	6	6	9	11	11	8	9	11	9	10	9	8	5.8	11.2
9-Oct-06	7	9	8	9	8	7	6	6	4	12	15	20	22	21	19	18	11	9	6	7	12	5	4	4	6.3	22.0
10-Oct-06	4	6	6	5	4	7	7	7	10	12	14	11	12	10	11	12	12	13	13	14	16	13	9	10	8.4	15.9
11-Oct-06	12	6	7	7	8	5	7	10	13	19	22	18	18	19	19	17	20	20	18	18	18	18	18	18	14.7	21.6
12-Oct-06	18	15	14	11	7	5	3	4	8	8	3	0	2	3	5	5	3	5	3	2	5	5	6	5	3.2	17.5
13-Oct-06	8	7	2	4	8	4	6	4	1	3	3	7	7	6	6	8	9	9	9	8	7	10	12	8	5.7	11.9
14-Oct-06	9	12	13	11	8	12	13	15	16	21	22	23	21	19	15	15	13	17	15	16	16	15	12	12	14.9	23.2
15-Oct-06	10	9	12	11	11	11	11	6	8	9	7	9	2	2	5	11	12	12	12	12	13	14	16	24	5.6	24.1
16-Oct-06	28	21	19	23	23	24	20	19	20	20	20	21	21	19	16	16	14	11	10	8	6	4	5	9	14.8	27.8
17-Oct-06	11	13	16	13	13	12	9	11	16	18	17	15	12	12	13	11	6	6	7	7	10	8	8	7	9.5	18.3
18-Oct-06	2	2	5	5	5	7	7	8	10	12	12	8	9	9	16	15	12	6	5	5	8	11	4	4	0.8	15.6
19-Oct-06	11	11	11	14	15	14	15	13	12	12	9	7	11	7	6	5	4	4	3	13	14	16	16	13	2.9	16.2
20-Oct-06	13	12	8	3	4	5	5	6	8	9	12	14	16	14	12	16	11	7	6	3	6	6	7	8	8.5	16.5
21-Oct-06	5	9	14	14	11	7	5	6	3	3	3	6	8	11	11	13	16	14	16	17	20	22	19	19	8.5	22.2
22-Oct-06	18	16	12	12	9	10	13	12	9	11	14	17	14	16	13	13	4	4	8	7	8	8	17	21	9.2	21.3
23-Oct-06	17	17	11	11	11	10	10	11	11	12	17	22	19	24	24	24	16	10	4	9	10	9	9	12	12.4	24.3
24-Oct-06	13	14	16	13	12	10	7	9	7	5	8	9	10	16	17	15	8	12	9	9	9	13	16	16	7.4	16.7
25-Oct-06	11	6	1	8	11	9	3	5	7	12	16	25	27	26	28	23	20	11	11	11	10	15	18	21	13.5	28.3
26-Oct-06	23	27	31	26	20	17	12	11	16	23	27	29	34	32	30	27	24	18	14	19	13	16	14	14	20.9	33.6
27-Oct-06	15	10	6	8	9	10	8	5	3	5	11	12	9	7	3	2	5	6	6	12	16	14	6	3	6.2	16.5
28-Oct-06	7	6	7	5	9	5	2	2	10	14	11	12	15	17	17	16	15	18	18	18	19	18	18	14	11.1	18.8
29-Oct-06	9	8	6	5	8	10	9	6	5	4	8	13	16	16	14	13	10	14	12	10	11	13	11	12	9.6	15.8
30-Oct-06	8	8	7	7	6	9	9	11	7	9	14	13	15	15	16	13	12	11	12	8	7	9	9	10	9.8	15.6
31-Oct-06	8	10	14	12	12	12	14	15	9	11	11	13	14	15	19	18	16	14	10	9	7	5	7	7	11.5	19.3
1-hr Vector	1.6	1.8	1.8	1.8	1.6	1.6	2.6	3.2	2.8	3.7	4.5	5.3	6.8	7.5	7.4	6.5	4.3	2.6	1.5	1.7	1.1	1.4	1.8	1.7		
Hourly Max	27.8	26.6	30.8	26.4	23.3	24.1	20.2	19.1	20.4	22.9	26.7	28.8	33.6	31.7	30.2	26.5	24.0	20.1	18.1	18.8	20.5	22.2	18.7	24.1		

PASZA - Portable-Fahler - Wind Direction Monthly Summary

Station: Portable-Fahler
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2006 to November 1, 2006

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
	353.0 325.3 275.5 215.8 131.1 24.6 9.9	241 deg

Status Flag Characters

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

Day Mountain Standard Time

Day	Hour Start	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	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-Oct-06	263	259	261	275	276	278	270	282	287	287	285	289	284	277	291	291	11	76	162	136	276	252	271	270	281	W	
2-Oct-06	269	268	279	272	288	244	225	177	217	211	203	211	213	236	252	254	239	244	218	148	122	115	120	111	219	SW	
3-Oct-06	110	111	104	117	119	113	112	122	153	179	198	188	202	200	230	227	227	228	230	335	61	139	134	120	149	SSE	
4-Oct-06	110	115	111	140	151	158	161	166	178	208	210	215	224	235	227	247	243	226	210	216	194	210	216	205	212	SSW	
5-Oct-06	204	170	203	199	183	183	207	201	199	213	229	264	280	290	291	281	261	268	223	227	238	217	184	231	233	SW	
6-Oct-06	302	238	205	221	250	253	200	202	269	241	225	244	285	296	353	353	6	355	345	17	24	346	294	307	305	NW	
7-Oct-06	302	300	322	312	133	169	222	226	247	281	293	281	286	279	279	273	285	300	313	255	293	307	270	163	279	W	
8-Oct-06	134	157	148	174	195	76	186	256	225	234	228	214	199	229	252	251	255	254	218	200	186	174	189	182	209	SSW	
9-Oct-06	146	153	178	196	194	174	174	209	230	247	266	283	287	296	305	299	300	319	298	302	343	353	321	31	278	W	
10-Oct-06	56	35	30	20	8	26	30	34	37	68	88	105	104	104	96	102	98	91	96	102	111	122	131	144	88	E	
11-Oct-06	141	101	116	111	135	125	142	139	151	145	146	153	142	142	132	133	123	130	130	131	132	128	129	133	135	SE	
12-Oct-06	139	131	131	129	134	98	12	9	44	80	122	67	330	310	273	271	251	238	251	95	93	131	117	80	117	ESE	
13-Oct-06	115	135	147	84	77	79	120	108	96	54	72	61	61	55	35	30	29	35	42	41	54	82	101	110	72	ENE	
14-Oct-06	107	103	109	115	109	112	120	122	118	117	118	117	123	131	142	137	123	123	127	137	139	136	130	135	123	ESE	
15-Oct-06	140	137	124	131	134	140	129	136	131	124	120	94	204	15	349	358	8	21	19	21	24	24	30	16	66	ENE	
16-Oct-06	34	43	24	29	28	37	16	16	14	15	14	12	12	12	6	359	349	340	338	326	306	312	205	234	14	NNE	
17-Oct-06	242	253	248	246	259	250	196	179	179	186	183	192	211	234	229	239	245	216	214	247	261	266	282	318	227	SW	
18-Oct-06	300	135	143	175	152	189	226	196	173	177	195	210	246	287	335	352	348	356	2	59	50	52	92	149	224	SW	
19-Oct-06	150	156	132	132	125	136	129	134	130	128	149	188	232	239	245	241	213	207	283	343	347	344	337	334	147	SSE	
20-Oct-06	332	332	326	298	284	277	293	305	295	287	298	291	286	290	299	321	315	322	318	281	263	302	312	328	304	NW	
21-Oct-06	329	24	36	34	33	31	33	61	52	118	108	154	156	152	140	124	116	114	118	125	130	131	129	129	108	ESE	
22-Oct-06	131	132	137	142	139	158	156	152	150	168	165	165	169	166	175	168	157	193	142	158	216	237	272	267	169	SSE	
23-Oct-06	267	261	256	243	229	230	224	211	219	227	235	238	244	253	245	252	249	253	201	170	164	194	168	165	233	SW	
24-Oct-06	153	157	158	142	140	136	140	177	140	225	189	192	209	235	258	269	258	260	216	224	231	253	277	282	210	SSW	
25-Oct-06	277	287	229	257	272	283	218	186	220	233	238	255	249	241	241	237	240	215	188	209	226	237	241	245	241	WSW	
26-Oct-06	248	259	260	265	265	257	250	243	247	258	268	279	283	278	291	298	291	278	266	264	257	261	265	256	269	W	
27-Oct-06	261	248	256	270	270	263	241	229	208	273	294	309	313	323	353	141	157	160	192	218	237	240	264	283	256	WSW	
28-Oct-06	269	294	324	344	3	353	279	299	35	44	38	28	32	28	27	27	23	16	16	12	13	17	19	24	21	18	NNE
29-Oct-06	1	341	323	301	329	336	333	312	301	273	292	304	296	285	322	328	316	300	298	282	281	291	297	291	307	NW	
30-Oct-06	293	282	280	287	243	228	241	246	242	271	280	276	276	278	278	280	279	281	281	290	303	302	284	296	276	W	
31-Oct-06	306	289	287	293	293	293	291	286	280	274	302	313	302	281	269	269	272	280	278	262	262	261	285	288	284	WNV	
Hourly Avg	216	211	206	203	208	191	191	192	191	210	226	246	256	262	273	279	286	282	228	210	211	215	237	251			

PASZA - Portable-Fahler - Standard Deviation of Wind Direction Monthly Summary

Station: Portable-Fahler
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

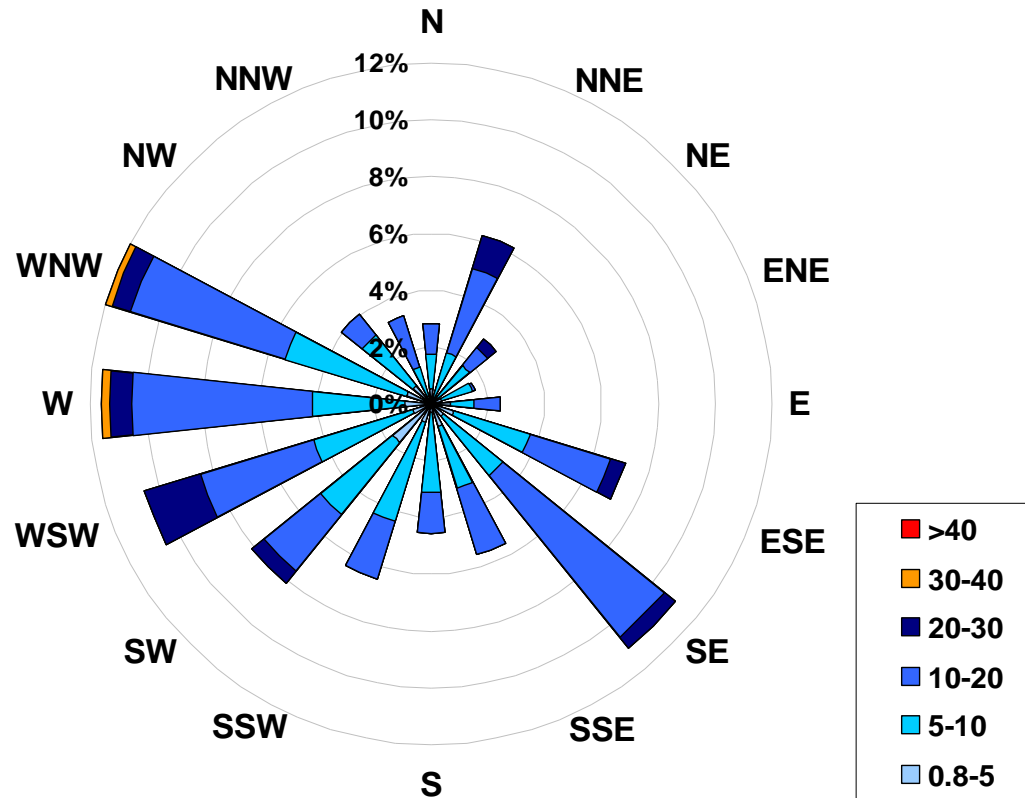
Determined by the Yamartino 15-min interval calculation

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
	44.3	23.7	9.5	5.4	3.6	2.3	1.8

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

Day	Mountain Standard Time																							Daily Maximum	
	Hour Start 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-Oct-06	3	3	2	4	2	3	4	4	4	6	6	9	14	12	7	7	9	36	12	27	17	7	6	7	36.1
2-Oct-06	4	4	20	10	7	13	14	19	5	6	9	10	18	19	21	25	14	6	10	5	4	4	3	3	24.7
3-Oct-06	1	2	4	3	2	3	2	4	8	11	15	19	23	25	19	28	23	11	14	16	16	3	10	8	27.8
4-Oct-06	6	30	16	5	11	3	2	3	4	5	7	6	6	9	6	5	4	4	3	3	5	6	2	3	30.4
5-Oct-06	7	6	7	3	5	5	5	3	2	5	7	7	10	7	7	9	7	4	6	3	5	8	9	32	32.5
6-Oct-06	4	22	9	23	15	17	15	9	51	15	21	19	14	9	7	15	12	7	9	8	5	13	7	5	50.5
7-Oct-06	4	15	6	49	13	7	9	9	6	7	18	15	15	16	18	12	9	4	12	9	8	4	29	9	48.9
8-Oct-06	30	10	11	16	13	34	17	40	49	16	23	23	18	23	15	16	10	5	3	3	5	2	2	2	48.7
9-Oct-06	8	4	4	2	4	5	4	5	18	5	7	6	6	6	8	8	7	5	3	4	9	11	13	16	17.9
10-Oct-06	6	5	5	6	9	6	4	5	8	5	6	9	9	11	11	8	8	8	5	4	4	2	4	6	11.4
11-Oct-06	6	7	4	10	11	8	4	4	5	6	6	9	9	9	8	7	4	2	2	2	2	2	3	3	10.9
12-Oct-06	4	4	5	5	8	35	15	23	5	10	58	56	49	57	35	26	14	5	15	42	6	7	9	10	58.0
13-Oct-06	7	7	26	10	7	8	9	11	24	28	16	14	13	13	13	8	5	3	2	3	3	5	3	3	27.5
14-Oct-06	4	4	3	5	4	3	3	3	3	4	4	5	5	10	4	3	4	3	2	3	3	2	3	3	10.3
15-Oct-06	10	7	10	3	2	3	3	11	3	4	6	6	41	24	28	7	5	6	5	3	3	3	4	22	40.9
16-Oct-06	13	11	4	11	13	10	3	3	3	4	4	4	5	5	5	4	4	5	7	13	19	24	13	8	24.2
17-Oct-06	6	7	8	6	5	6	4	3	2	3	5	5	9	10	6	5	3	3	2	7	2	5	4	6	10.0
18-Oct-06	46	23	12	8	5	5	5	6	5	3	3	5	4	8	4	5	6	7	6	10	4	6	18	15	46.3
19-Oct-06	6	4	6	3	3	3	4	3	4	3	12	7	7	13	7	9	7	29	20	7	4	4	3	4	29.1
20-Oct-06	4	4	4	7	5	4	4	4	5	7	7	6	6	7	6	6	5	4	7	18	5	4	3	5	18.3
21-Oct-06	6	7	4	6	7	9	10	11	20	33	21	25	22	14	13	12	9	13	16	16	10	14	2	2	33.4
22-Oct-06	2	2	8	3	4	4	3	2	4	4	3	4	6	5	4	4	12	12	5	7	8	12	5	3	12.4
23-Oct-06	3	2	2	9	2	2	4	2	3	10	4	5	7	4	5	5	3	5	11	12	5	22	4	11	22.0
24-Oct-06	15	11	23	10	6	8	11	12	23	16	7	5	6	5	7	5	4	4	5	6	2	5	4	3	23.4
25-Oct-06	3	8	38	4	3	6	30	18	5	3	4	6	6	6	7	4	3	5	5	5	5	4	2	2	37.8
26-Oct-06	4	4	3	2	3	3	3	4	3	3	5	5	5	5	7	6	4	3	3	3	3	2	3	2	6.8
27-Oct-06	2	4	12	11	2	3	12	40	32	10	4	4	6	9	13	34	4	3	7	5	3	3	11	4	39.6
28-Oct-06	4	7	5	5	4	6	10	14	6	5	4	5	4	3	3	3	3	3	4	4	4	4	3	3	13.9
29-Oct-06	3	4	4	4	5	2	4	5	22	17	6	5	4	5	8	7	4	4	4	3	3	3	4	3	22.1
30-Oct-06	4	3	3	7	5	5	5	2	3	4	3	4	5	4	3	4	3	7	2	3	3	5	3	3	7.0
31-Oct-06	3	5	3	2	2	3	4	2	7	12	7	6	8	4	3	3	2	3	3	2	9	8	5	3	11.9
Hourly Max	46	30	38	49	15	35	30	40	51	33	58	56	49	57	35	34	23	36	20	42	19	24	29	32	

1-hr Average Wind Rose (in km/hr) Located at the Portable-Fahler Site for October 2006



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	78
5	to	10	286
10	to	20	326
20	to	30	50
30	to	40	4
	>	40	0
Total Non-Zero Values			744

PASZA - Valleyview Station

Monthly Summary Tables, Graphs, and Roses

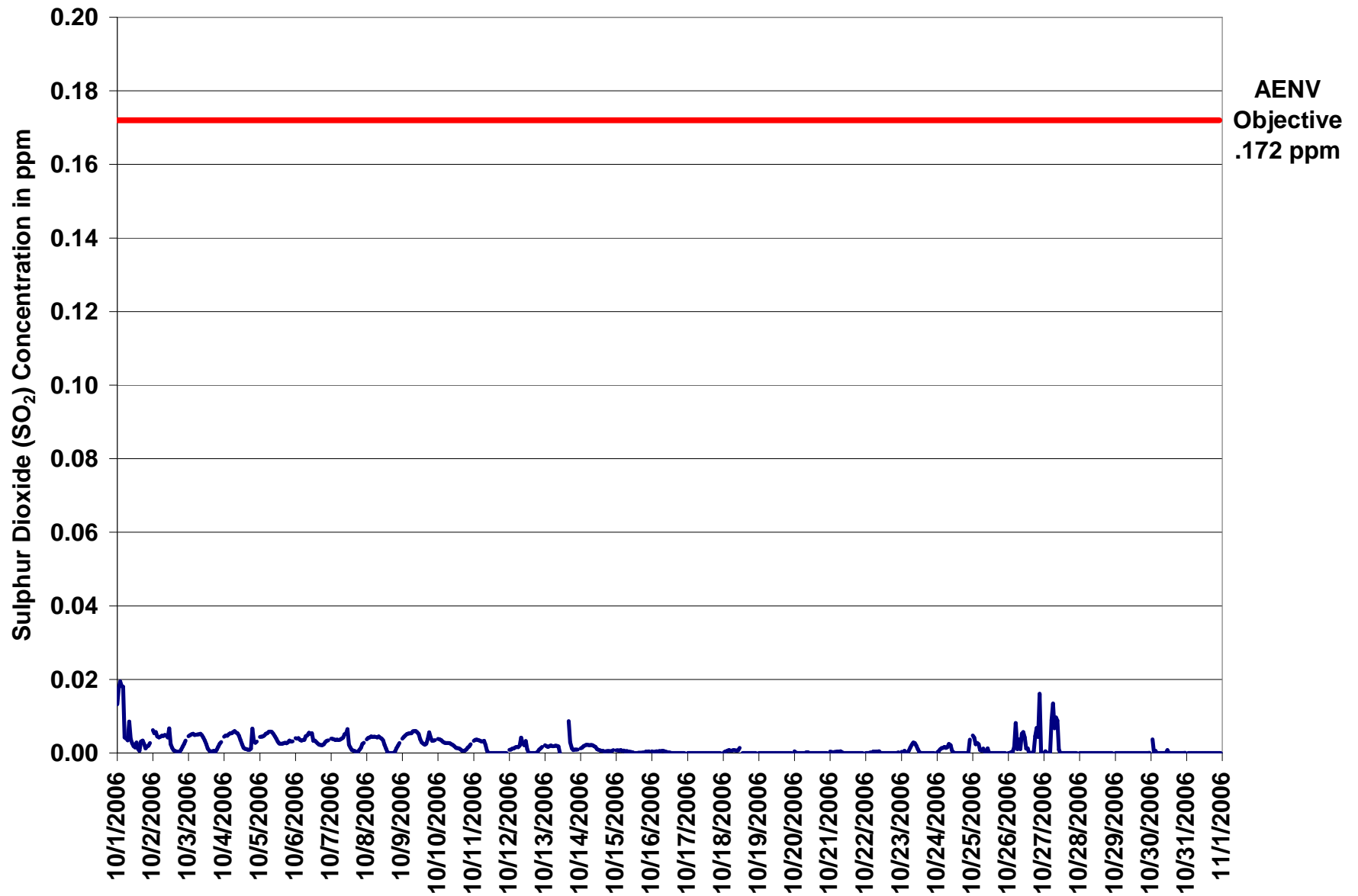


Figure 54. PASZA - Valleyview Sulphur Dioxide 1-hr Average Monthly Trend

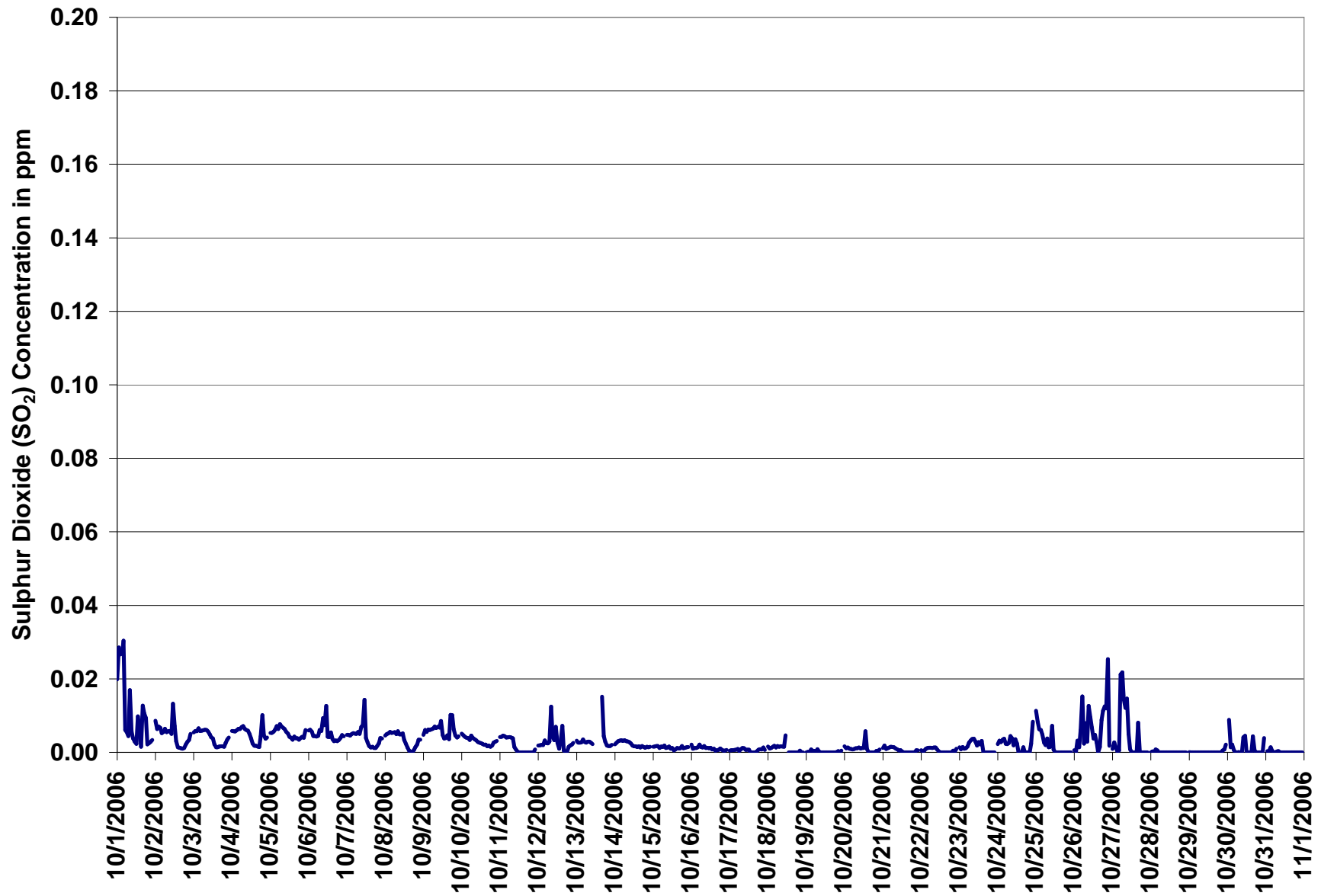
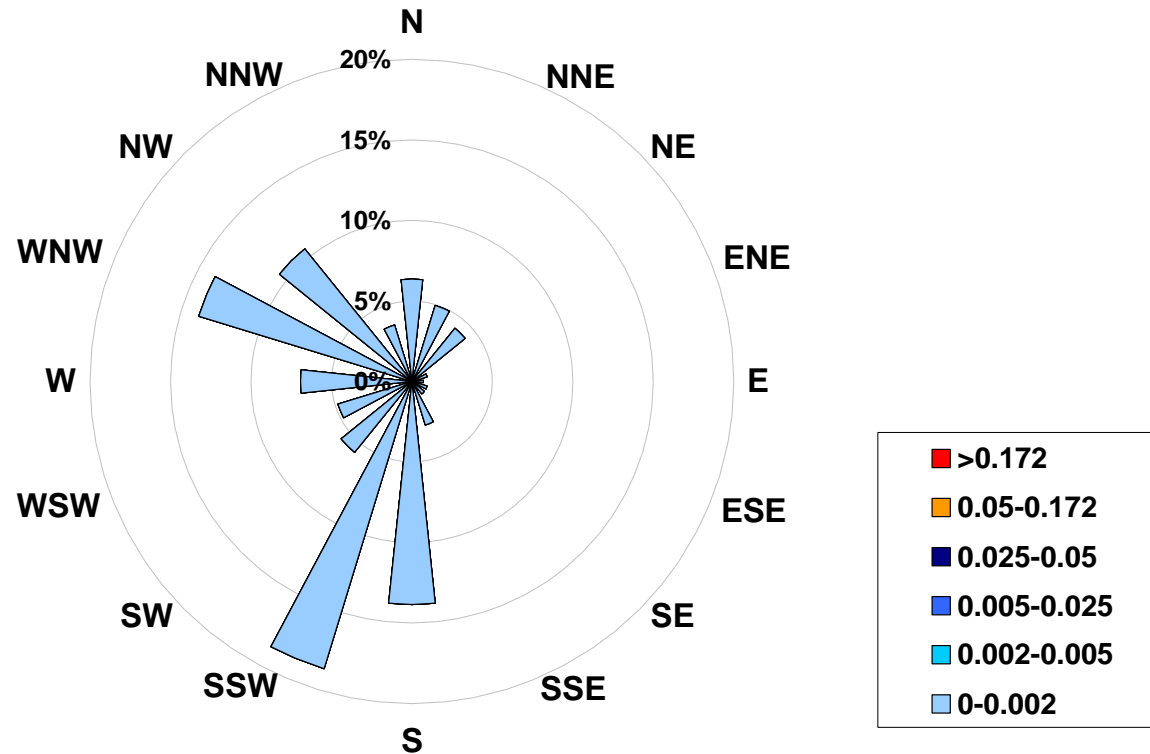


Figure 55. PASZA - Valleyview Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppm) Located at the Valleyview Site for October 2006



Calms: 0%

Frequency Distribution of SO ₂ in ppm			Frequency (hrs)
Range			
0.0	< 0.002		484
0.002	to 0.005		168
0.005	to 0.025		56
0.025	to 0.05		0
0.05	to 0.172		0
	> 0.172		0
Total Non-Zero Values			708

PASZA - Valleyview - Hydrogen Sulphide Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

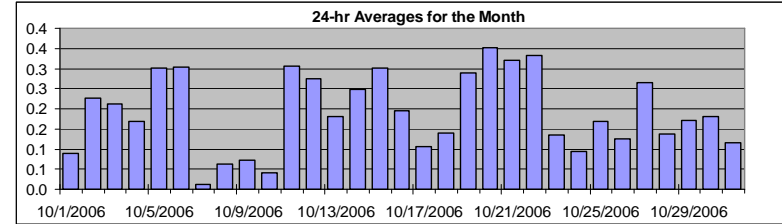
Hydrogen Sulphide (H₂S)

Monitoring Dates: October 1, 2006 to November 1, 2006

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	20-Oct	18:00	19:00
Maximum 24-hr Value:	0.4	ppb	20-Oct		



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
	0.6	0.4	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	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-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.2	
2-Oct-06	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.8	
3-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.3	
4-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.3	
5-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.5	
6-Oct-06	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.6	
7-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.0	0.1	
8-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.2	
9-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.3	
10-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.0	0.2	
11-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.6	
12-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.5	
13-Oct-06	1	1	0	0	0	0	0	0	0	0	0	C	C	C	C	A	0	0	0	0	0	0	0	0	A	0.2	1.0	
14-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.4	
15-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.5	
16-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.4	
17-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.2	
18-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.4	
19-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.4	
20-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	A	0.4	1.2	
21-Oct-06	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.6	
22-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0	A	0.3	0.6	
23-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.5	
24-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.3	
25-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.3	
26-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	A	0.1	0.6	
27-Oct-06	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.6	
28-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.2	
29-Oct-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
30-Oct-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
31-Oct-06	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
Hourly Avg	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N			
Hourly Max	0.8	1.0	0.4	0.4	0.4	0.3	0.5	0.5	0.5	0.4	0.6	0.4	0.4	0.4	0.4	0.5	0.6	0.6	0.6	0.6	1.2	1.1	0.6	0.5	0.5	0.5		

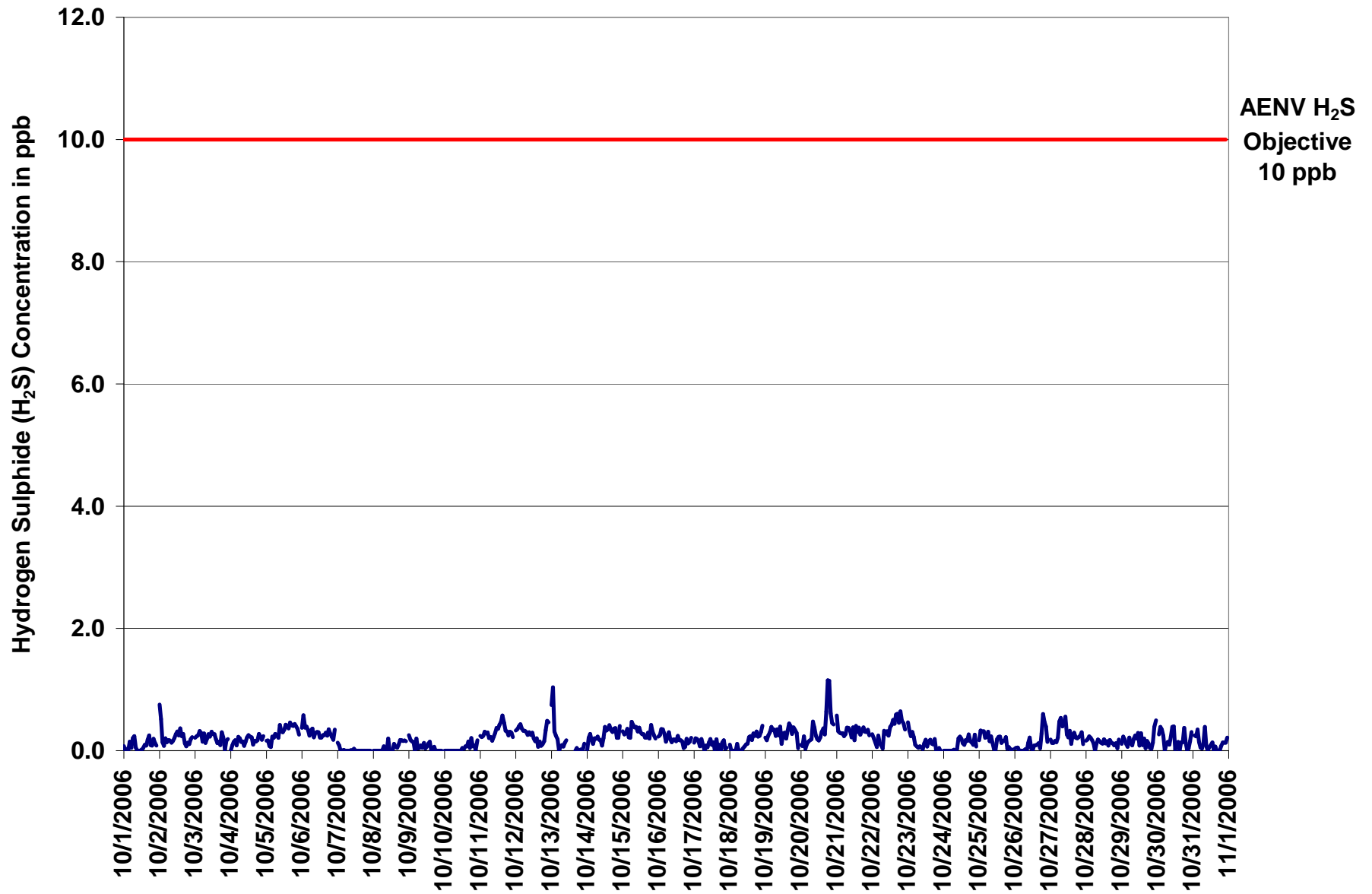


Figure 56. PASZA - Valleyview Hydrogen Sulphide 1-hr Average Monthly Trend

Station: Valleyview
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

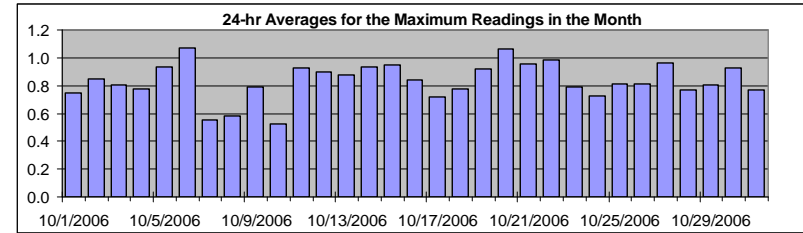
Hydrogen Sulphide (H₂S)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Value:	2.4	ppb	13-Oct	1:00 2:00
Maximum 24-hr Value:	1.1	ppb	6-Oct	

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
	1.5	1.2	1.0	0.8	0.7	0.5	0.3	0.8 ppb	0.8 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	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-Oct-06	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	1.5
2-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.4
3-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.1
4-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.0
5-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.3
6-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	A	1.1	1.7	
7-Oct-06	1	1	1	0	1	1	0	1	1	1	1	0	1	1	0	1	1	0	1	1	0	0	0	A	0.6	0.9	
8-Oct-06	0	1	0	0	0	1	1	1	1	0	1	0	1	1	0	1	1	1	1	1	1	1	1	A	0.6	1.0	
9-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	A	0.8	1.3	
10-Oct-06	1	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	A	0.5	0.9	
11-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.3	
12-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	A	0.9	1.4	
13-Oct-06	2	2	1	1	1	0	1	1	1	1	1	C	C	C	C	A	1	1	0	1	1	1	1	A	0.9	2.4	
14-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.4	
15-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.2	
16-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.1	
17-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	A	0.7	1.1	
18-Oct-06	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.2	
19-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.3	
20-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	A	1.1	2.1	
21-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.0	1.2	
22-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.0	1.3	
23-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	A	0.8	1.1	
24-Oct-06	0	0	0	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	1.3	
25-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	A	0.8	1.1	
26-Oct-06	1	1	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.4	
27-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.0	1.3	
28-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.1	
29-Oct-06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.1	
30-Oct-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.5	
31-Oct-06	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.2	
Hourly Avg	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.9	0.8	0.9	0.8	N			
Hourly Max	1.9	2.4	1.3	1.2	1.2	1.3	1.4	1.5	1.3	1.3	1.2	1.5	1.3	1.2	1.2	1.3	1.3	1.8	2.1	1.7	1.5	1.4	1.7	1.2			

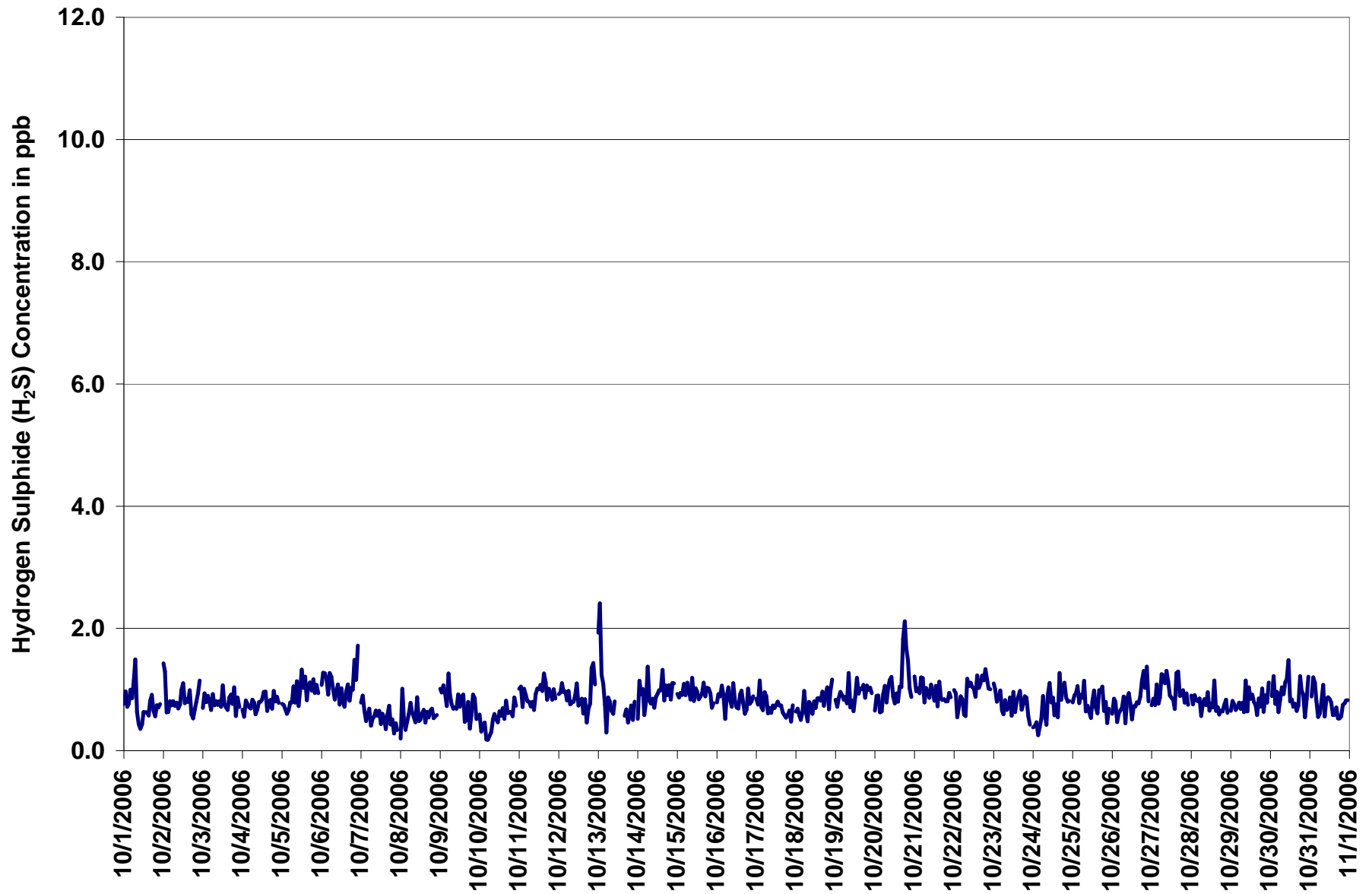
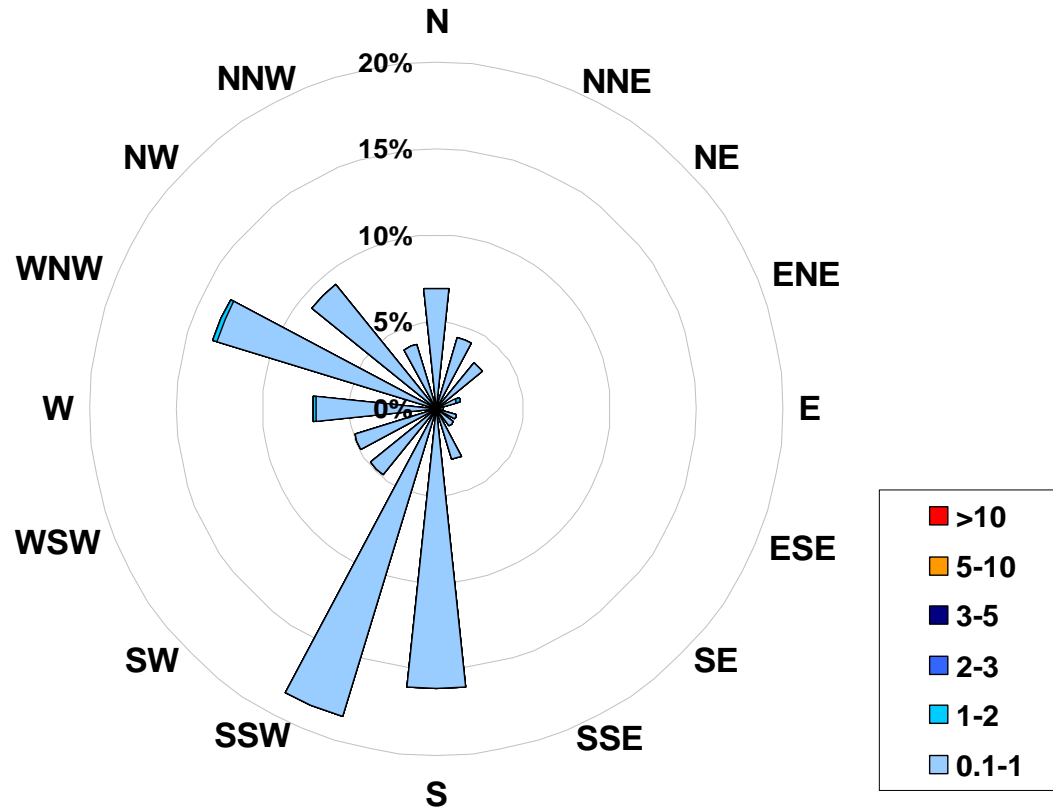


Figure 57. PASZA - Valleyview Hydrogen Sulphide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Hydrogen Sulphide (in ppb) Located at the Valleyview Site for October 2006



Calms: 0%

Frequency Distribution of H ₂ S in ppb			
Range			Frequency (hrs)
0.1	<	1	706
1	to	2	3
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

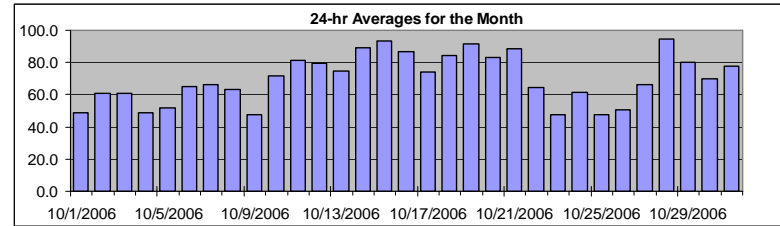
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	98.3 %	11-Oct	3:00 4:00
Maximum 24-hr Value:	94.7 %	28-Oct	



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
	97.8	96.7	88.0
	74.6	54.6	32.2
	22.3	70.1 %	74.6 %

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																							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-Oct-06	53	50	46	47	49	52	56	58	55	49	45	43	39	36	34	34	33	40	44	57	59	62	65	65	48.9	65.2	
2-Oct-06	62	65	68	76	82	84	89	90	74	62	54	51	43	38	35	33	32	34	40	52	62	69	80	85	60.9	90.2	
3-Oct-06	83	86	87	90	89	89	92	88	78	66	54	45	38	34	30	24	23	23	30	41	53	62	77	79	60.9	92.1	
4-Oct-06	77	79	83	87	92	93	95	92	82	63	47	35	23	19	16	11	9	10	13	17	22	34	36	37	48.9	95.4	
5-Oct-06	42	43	46	50	53	54	55	53	51	47	48	47	42	33	34	40	48	60	64	66	69	69	67	61	51.7	69.3	
6-Oct-06	62	63	64	67	70	72	77	81	77	69	64	60	60	52	50	46	44	44	52	58	68	77	84	83	83	65.3	84.4
7-Oct-06	83	84	85	87	88	91	93	94	81	70	65	54	44	38	35	34	36	39	43	50	62	74	81	79	66.2	94.0	
8-Oct-06	80	82	82	89	91	91	89	87	83	76	60	51	45	38	31	29	27	28	36	50	62	74	68	70	63.3	91.5	
9-Oct-06	70	70	73	77	78	74	72	75	72	59	41	28	23	23	24	25	25	27	30	28	29	33	35	46	47.4	78.3	
10-Oct-06	51	54	57	57	55	53	56	64	69	72	76	76	72	69	66	67	73	77	83	87	91	95	97	98	71.5	97.9	
11-Oct-06	98	98	98	98	98	97	97	97	97	95	90	75	64	57	53	50	52	60	68	76	81	85	86	88	81.6	98.3	
12-Oct-06	90	92	92	93	95	95	95	94	92	88	82	73	68	65	61	58	59	61	68	71	75	79	79	81	79.5	95.3	
13-Oct-06	82	83	85	84	86	86	87	88	88	86	80	M	M	59	52	47	52	56	62	68	72	75	79	82	74.5	87.9	
14-Oct-06	88	88	95	97	97	97	95	94	90	84	80	79	78	77	82	82	83	86	91	93	95	95	95	94	88.9	96.9	
15-Oct-06	94	95	96	96	97	97	97	98	98	97	97	97	92	93	91	87	86	89	91	91	90	89	91	93	93.4	97.9	
16-Oct-06	95	94	93	92	92	89	90	91	90	89	86	87	85	83	81	80	82	82	83	83	82	83	83	84	86.6	95.4	
17-Oct-06	84	84	82	81	80	81	80	83	80	74	68	62	57	55	55	54	54	63	76	82	88	90	87	80	74.1	90.3	
18-Oct-06	73	68	75	80	84	86	85	90	92	94	95	96	95	85	69	72	72	76	84	89	88	89	90	90	84.1	95.5	
19-Oct-06	90	90	91	91	92	92	92	93	93	92	89	90	96	97	94	91	91	96	92	90	90	90	88	90	91.7	96.7	
20-Oct-06	91	94	94	91	91	92	91	90	88	83	76	73	74	73	67	63	65	68	73	85	88	93	94	94	82.9	94.2	
21-Oct-06	94	93	93	95	94	93	95	97	98	97	97	97	97	95	82	72	68	74	73	81	86	89	86	82	88.7	98.2	
22-Oct-06	83	86	88	88	88	86	87	86	81	72	63	58	50	46	43	42	42	44	53	65	62	43	42	45	64.3	88.0	
23-Oct-06	49	50	53	60	69	76	80	73	67	59	49	36	32	31	31	32	34	34	36	38	39	37	40	43	47.8	80.0	
24-Oct-06	48	51	55	59	61	65	63	62	66	68	65	63	60	54	43	38	59	76	87	86	79	61	56	57	61.7	86.9	
25-Oct-06	59	56	59	59	58	62	61	55	58	54	45	38	33	30	33	34	36	38	41	43	46	47	50	52	47.7	62.0	
26-Oct-06	54	57	63	80	73	66	69	66	66	58	51	41	33	29	29	28	31	35	39	43	47	51	55	54	50.9	80.3	
27-Oct-06	56	58	59	62	62	59	57	57	59	57	55	53	51	48	47	48	51	80	94	96	96	97	97	97	66.5	97.1	
28-Oct-06	97	97	97	97	97	97	97	97	96	95	94	94	94	94	94	94	94	94	94	94	94	93	90	87	94.7	97.1	
29-Oct-06	85	83	82	84	85	86	85	85	84	83	78	77	74	70	73	73	74	78	83	83	82	81	80	80	80.3	86.3	
30-Oct-06	79	78	78	76	77	81	83	82	75	71	66	64	60	58	58	58	61	65	66	65	65	68	73	75	70.1	82.5	
31-Oct-06	76	77	78	78	79	79	81	81	78	76	73	73	73	69	67	66	67	72	77	81	88	92	90	89	77.5	91.8	
Hourly Avg	75.1	75.7	77.3	79.7	80.7	81.1	82.0	82.0	79.4	74.6	69.1	64.0	59.6	56.4	53.7	52.1	53.6	58.6	63.4	67.9	71.5	73.5	74.8	75.4			
Hourly Max	98.1	98.1	98.2	98.3	97.7	96.9	97.4	97.9	98.2	97.4	97.2	97.5	97.5	96.7	94.5	94.4	94.2	95.8	94.4	96.1	96.4	97.0	97.2	97.9			

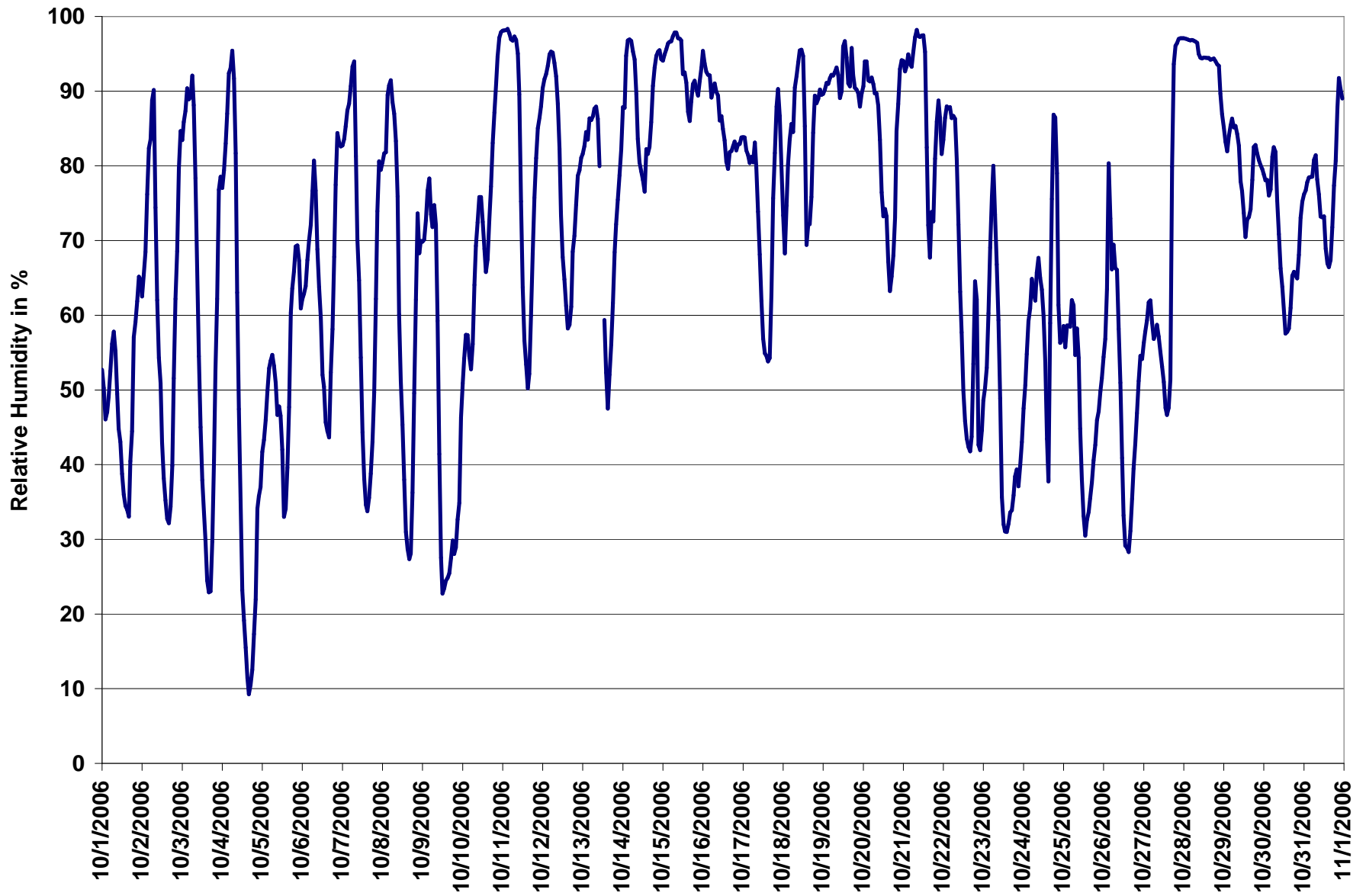


Figure 58. PASZA - Valleyview Relative Humidity 1-hr Average Monthly Trend

PASZA - Valleyview - Temperature Monthly Summary

Station: Valleyview
 Station Owner: PASZA

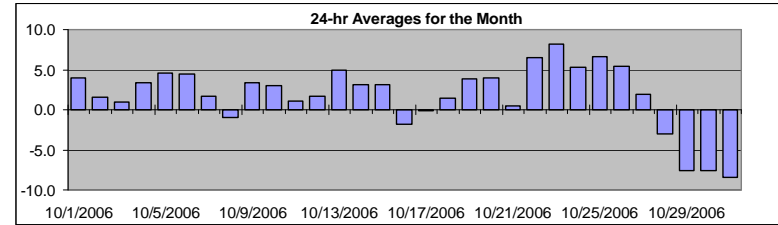
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	16.2 °C	4-Oct	16:00 17:00
Maximum 24-hr Value:	8.2 °C	23-Oct	



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
	13.7	10.6	5.6	2.2	-2.0	-7.7	-11.0	1.8 °C	2.2 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-Oct-06	5	5	5	5	4	2	1	1	2	4	5	6	6	7	8	8	8	6	5	3	1	0	-1	0	3.9	7.8	
2-Oct-06	0	0	-1	-3	-4	-4	-5	-5	-2	1	4	5	7	8	8	9	9	9	7	3	1	-1	-3	-4	1.5	9.1	
3-Oct-06	-5	-6	-6	-6	-6	-6	-7	-6	-4	-1	3	5	8	10	11	12	12	12	9	4	1	-2	-4	-5	1.0	12.1	
4-Oct-06	-5	-5	-5	-5	-7	-7	-8	-6	-4	0	4	7	11	13	14	16	16	15	12	9	7	4	3	2	3.4	16.2	
5-Oct-06	2	1	1	0	-1	-1	-1	0	1	3	4	5	8	11	12	11	10	8	7	7	6	6	6	7	4.6	11.7	
6-Oct-06	6	6	5	4	3	2	1	0	1	4	5	6	7	8	9	9	8	7	6	3	3	2	1	1	4.5	8.6	
7-Oct-06	1	1	0	0	0	0	-1	-1	0	1	2	4	6	7	7	7	7	4	2	-1	-3	-5	-5	1.7	7.5		
8-Oct-06	-5	-6	-6	-8	-8	-8	-8	-7	-6	-4	0	3	6	8	8	9	9	9	5	1	-2	-4	-4	-4	-0.9	9.2	
9-Oct-06	-4	-4	-5	-6	-6	-6	-6	-7	-6	-2	3	7	9	11	11	12	12	11	10	10	10	9	10	9	3.4	11.7	
10-Oct-06	8	7	6	6	5	4	4	3	3	3	3	3	4	5	6	5	4	3	1	0	-1	-2	-3	-4	3.1	7.8	
11-Oct-06	-5	-4	-3	-3	-2	-2	-2	-2	-2	-2	0	3	6	8	9	10	10	6	4	2	0	-1	-1	-1	1.1	10.2	
12-Oct-06	-2	-2	-2	-2	-3	-3	-3	-2	-2	-1	1	3	5	6	7	8	7	6	4	4	3	2	2	2	1.7	7.8	
13-Oct-06	2	2	1	2	1	1	1	1	1	1	3	M	M	10	11	13	12	10	9	7	6	6	5	5	4.9	12.6	
14-Oct-06	3	3	1	0	0	0	0	0	2	3	4	5	5	5	5	6	6	6	5	4	4	4	4	4	3.2	5.8	
15-Oct-06	4	3	4	4	3	3	3	3	4	4	4	4	5	6	4	3	3	3	2	1	1	1	1	1	3.1	5.6	
16-Oct-06	0	0	0	-1	-1	-1	-2	-2	-2	-3	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-3	-3	-3	-3	-1.9	0.3	
17-Oct-06	-3	-3	-3	-3	-3	-3	-4	-4	-3	-2	-1	1	3	4	5	6	7	5	3	1	-1	-2	-1	-1	-0.1	6.6	
18-Oct-06	0	0	-1	-2	-2	-2	-1	-1	-1	0	0	1	2	6	8	7	6	5	3	2	1	1	1	1	1.4	7.7	
19-Oct-06	1	1	1	2	2	2	3	2	3	3	4	5	5	5	6	7	7	6	6	6	5	5	4	3	3.8	6.7	
20-Oct-06	2	1	1	2	2	2	3	3	3	4	5	6	6	6	7	7	8	7	7	5	3	1	1	0	3.9	7.8	
21-Oct-06	0	0	-1	-2	-2	-2	-3	-4	-3	-3	-3	-2	-1	1	4	6	7	6	5	3	2	1	1	2	0.5	6.8	
22-Oct-06	2	1	0	0	0	0	-1	-1	1	3	5	7	10	13	14	15	15	14	11	9	9	11	10	10	6.5	14.9	
23-Oct-06	9	9	8	6	4	2	1	2	3	5	7	11	12	13	14	13	12	12	11	10	9	9	8	7	8.2	13.7	
24-Oct-06	5	4	3	2	2	2	2	3	3	4	4	6	8	10	11	11	9	6	5	4	4	6	7	6	5.3	11.4	
25-Oct-06	6	6	5	5	5	4	4	5	4	5	6	7	8	9	9	9	9	8	8	8	8	8	7	7	6.6	9.5	
26-Oct-06	7	6	7	4	4	5	4	4	3	4	6	7	8	8	8	8	7	6	5	5	4	4	2	2	5.4	8.2	
27-Oct-06	2	2	2	1	1	2	2	2	2	3	3	4	4	5	4	4	3	1	0	0	0	-1	-1	-1	1.9	4.5	
28-Oct-06	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	-3	-3	-4	-4	-4	-4	-4	-5	-5	-6	-7	-3.0	-0.8	
29-Oct-06	-7	-7	-7	-8	-9	-9	-10	-9	-9	-9	-8	-7	-7	-6	-6	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7.6	-6.3	
30-Oct-06	-8	-8	-8	-8	-9	-11	-13	-13	-12	-12	-9	-8	-6	-5	-5	-5	-4	-5	-5	-5	-5	-6	-6	-7	-7.6	-4.4	
31-Oct-06	-7	-8	-8	-8	-8	-9	-9	-9	-9	-9	-8	-7	-7	-6	-5	-5	-6	-7	-8	-9	-11	-13	-14	-14	-8.4	-5.1	
Hourly Avg	0.4	0.1	-0.3	-0.8	-1.2	-1.5	-1.7	-1.7	-1.0	0.2	1.7	3.1	4.5	5.8	6.4	6.7	6.4	5.4	4.0	2.8	1.7	0.9	0.4	0.1			
Hourly Max	9.4	8.8	7.8	6.2	5.0	4.7	4.2	4.7	3.8	4.7	7.4	10.8	12.0	13.1	14.2	15.6	16.2	14.6	12.2	10.3	10.0	10.6	10.3	10.1			

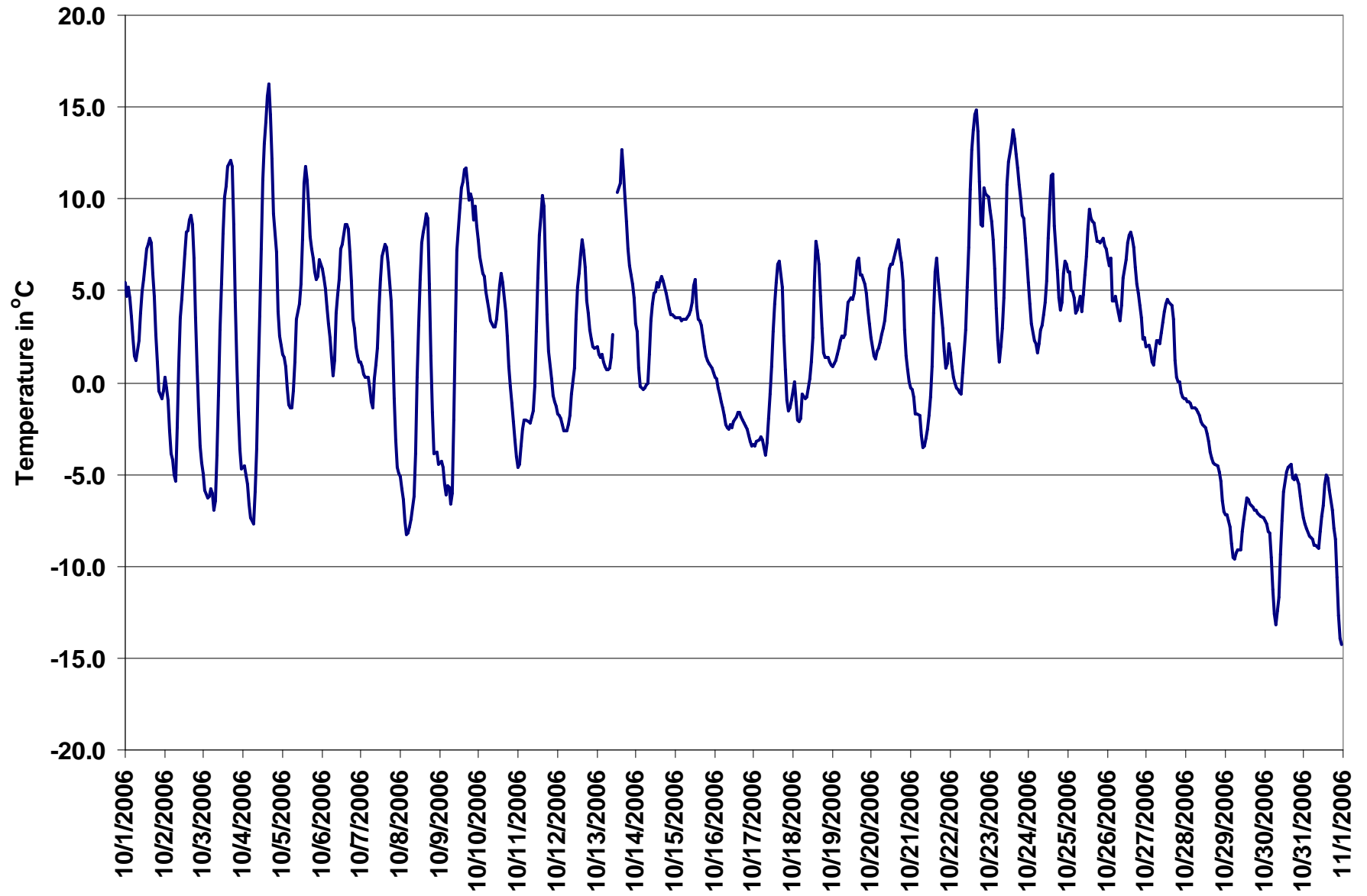


Figure 59. PASZA - Valleyview Temperature 1-hr Average Monthly Trend

PASZA - Valleyview - Scalar Wind Speed Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

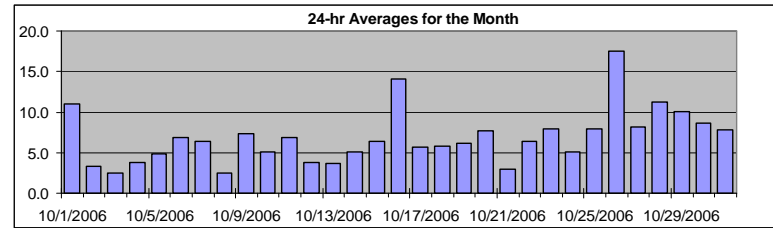
Wind Speed (WSs)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	34.5	km/hr	28-Oct	8:00 9:00
Maximum 24-hr Value:	17.5	km/hr	26-Oct	

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	AverageS
	22.6	16.1	9.6	5.5	3.1	1.7	1.1	6.9 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Oct-06	11	13	13	12	12	13	10	8	12	17	17	15	14	14	14	14	13	14	12	10	3	3	5	3	5	11.0	17.0
2-Oct-06	9	7	6	3	3	2	2	2	3	4	3	4	4	4	4	4	4	3	2	2	1	1	2	2	3.3	8.8	
3-Oct-06	2	1	2	2	4	2	2	2	3	4	3	4	3	4	5	3	3	2	1	2	1	1	2	2	2.4	4.5	
4-Oct-06	2	2	2	2	2	1	2	3	4	5	6	7	6	6	6	6	5	4	3	3	3	3	4	3	3.8	6.8	
5-Oct-06	3	4	2	2	3	3	3	2	2	1	2	2	3	7	17	16	15	8	3	2	3	3	4	6	4.8	16.6	
6-Oct-06	5	10	9	4	4	3	3	2	2	4	9	8	10	8	11	12	10	6	4	4	9	10	12	6	6.9	12.5	
7-Oct-06	6	9	7	7	3	3	1	2	4	6	7	8	11	12	14	14	13	8	5	2	3	2	3	3	6.4	14.2	
8-Oct-06	3	2	1	1	2	2	3	1	2	3	3	3	3	3	4	4	3	1	2	2	2	3	3	3	2.5	4.1	
9-Oct-06	4	4	3	2	3	4	4	4	4	4	5	9	15	20	19	12	7	1	4	5	7	9	14	13	7.4	20.5	
10-Oct-06	6	2	2	6	8	6	6	5	4	4	5	4	5	8	8	9	8	7	5	3	3	3	5	2	5.1	8.9	
11-Oct-06	1	2	1	3	5	6	5	6	6	8	5	6	7	7	9	6	8	10	10	11	12	10	9	9	6.9	12.0	
12-Oct-06	9	7	6	4	4	3	3	2	1	2	5	3	5	5	5	7	5	4	1	3	1	1	2	1	3.8	9.1	
13-Oct-06	1	2	2	2	2	3	3	2	1	2	3	M	M	4	7	7	9	7	7	6	5	3	2	2	3.7	8.7	
14-Oct-06	2	2	2	3	1	1	2	2	5	7	10	8	12	9	7	5	2	2	4	5	7	8	6	8	5.0	12.4	
15-Oct-06	6	3	3	2	3	2	1	2	3	3	3	3	10	13	12	12	12	10	8	9	9	9	8	7	6.4	13.2	
16-Oct-06	7	12	17	16	16	18	18	18	18	18	18	19	17	18	16	14	11	13	11	11	10	10	7	5	14.0	18.9	
17-Oct-06	5	6	5	7	4	3	7	8	9	9	9	9	8	9	8	6	3	1	2	3	3	4	4	5	5.6	9.0	
18-Oct-06	5	4	3	4	5	5	3	5	5	6	6	6	3	3	14	16	14	11	8	7	2	2	2	2	5.8	15.6	
19-Oct-06	3	4	5	7	6	4	2	2	4	3	4	3	2	4	4	3	2	2	12	13	13	14	16	15	6.1	16.1	
20-Oct-06	17	10	9	12	9	8	5	6	8	9	9	13	12	11	9	9	9	6	3	3	3	2	3	3	7.7	16.8	
21-Oct-06	2	2	3	3	3	3	2	5	4	2	3	2	2	4	3	3	3	3	3	1	2	2	4	7	2.9	7.4	
22-Oct-06	5	4	4	5	5	7	6	5	4	5	7	4	7	8	7	6	6	5	8	3	5	10	16	12	6.4	15.8	
23-Oct-06	9	14	12	5	3	4	4	6	4	5	6	7	14	15	15	15	8	6	5	4	5	7	8	8	7.9	15.3	
24-Oct-06	6	5	2	2	2	3	4	4	3	2	3	3	5	8	7	5	5	11	3	4	4	11	11	9	5.1	11.0	
25-Oct-06	9	10	7	6	7	5	7	7	3	6	12	11	9	12	12	8	7	8	9	10	8	7	7	4	8.0	12.4	
26-Oct-06	4	5	16	20	20	12	10	10	11	17	22	25	24	23	20	29	28	22	22	21	17	15	13	14	17.5	28.9	
27-Oct-06	12	14	13	10	11	15	14	12	10	10	11	10	7	8	8	4	7	6	2	1	1	5	4	2	8.1	14.6	
28-Oct-06	2	4	2	1	1	7	7	26	34	28	8	8	8	9	10	11	12	11	10	12	9	13	18	17	11.2	34.5	
29-Oct-06	16	13	12	12	8	7	6	7	6	6	7	6	7	11	13	11	11	11	10	12	12	14	11	13	10.0	15.6	
30-Oct-06	11	11	10	8	5	4	4	4	3	7	14	13	10	8	11	6	5	5	8	11	10	12	14	12	8.6	14.0	
31-Oct-06	12	11	8	9	6	9	10	9	10	9	9	12	9	11	11	11	9	5	2	3	3	3	3	3	7.8	11.7	
1-hr Average	6.3	6.4	6.1	5.8	5.4	5.4	5.2	5.7	6.2	7.1	7.5	7.9	8.4	9.2	9.9	9.3	8.4	6.8	6.0	5.9	5.7	6.5	7.1	6.6			
Hourly Max	16.8	13.9	16.6	20.1	20.4	18.0	18.0	25.5	34.5	28.5	21.7	25.3	24.3	23.2	20.0	28.9	28.0	21.6	21.6	20.6	17.2	15.5	18.5	16.6			

PASZA - Valleyview - Vector Wind Speed Monthly Summary

Station: Valleyview
 Station Owner: PASZA

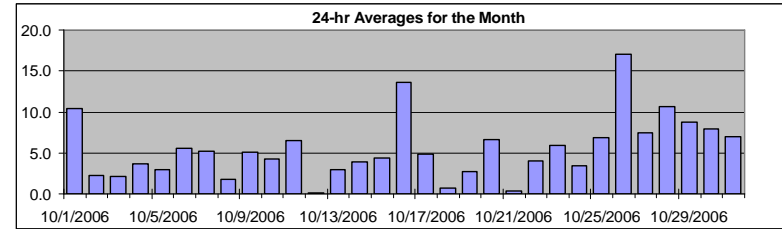
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

Maximum 1-hr Average:	34.4	km/hr	28-Oct	8:00 9:00
Maximum 24-hr Value:	17.0	km/hr	26-Oct	



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	AverageV
	22.4	15.9	9.4	5.4	2.7	1.0	0.4	10.9 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Oct-06	11	13	13	12	12	13	10	8	12	17	16	15	13	13	14	13	14	11	9	1	3	5	3	5		10.4	16.8
2-Oct-06	9	7	5	2	2	1	2	2	3	3	2	3	2	2	3	3	3	3	2	2	1	1	2	2		2.3	8.7
3-Oct-06	2	1	2	2	3	2	2	2	3	4	3	4	3	3	4	1	1	1	1	1	0	1	2	2		2.2	3.9
4-Oct-06	2	2	2	2	2	1	2	3	3	5	6	7	6	6	6	6	5	4	3	3	3	3	4	3		3.7	6.6
5-Oct-06	3	4	2	2	3	3	3	2	2	1	1	2	3	6	16	16	15	8	3	2	2	3	3	6		3.0	16.4
6-Oct-06	4	9	9	4	3	3	3	2	2	3	8	7	10	8	10	11	10	6	4	3	9	10	11	6		5.6	11.5
7-Oct-06	6	9	7	7	3	2	1	2	4	6	7	8	10	11	13	14	12	8	5	1	2	2	2	3		5.2	13.8
8-Oct-06	3	2	1	0	1	2	3	1	2	3	3	2	3	2	2	2	3	1	0	2	2	3	3	3		1.8	3.2
9-Oct-06	4	4	3	2	3	4	4	4	4	4	5	8	15	20	19	12	7	0	3	5	7	8	13	13		5.1	20.1
10-Oct-06	5	2	2	5	8	5	6	5	4	4	5	4	4	7	7	8	8	7	5	3	3	3	4	2		4.3	8.1
11-Oct-06	1	1	1	2	4	6	5	6	6	8	5	6	6	7	9	6	8	10	10	11	12	10	9	9		6.5	11.9
12-Oct-06	9	7	6	4	4	3	3	2	1	1	4	2	4	5	4	7	5	3	1	3	1	0	1	1		0.2	9.0
13-Oct-06	1	2	1	1	1	1	2	1	1	2	2	M	M	4	6	7	9	7	7	6	5	3	1	2		2.9	8.6
14-Oct-06	2	2	1	2	1	1	1	2	4	7	9	8	12	9	6	5	2	2	4	5	7	8	6	8		4.0	12.2
15-Oct-06	6	3	3	2	3	2	0	2	3	3	3	2	10	13	12	11	12	10	8	9	9	9	7	7		4.4	13.0
16-Oct-06	7	12	17	16	16	18	18	18	18	18	18	19	17	18	16	14	11	13	11	11	10	9	7	4		13.6	18.8
17-Oct-06	4	5	5	7	4	3	7	8	9	9	8	9	8	8	8	6	2	1	1	1	3	4	4	5		4.9	8.9
18-Oct-06	5	4	3	4	5	4	2	4	5	5	6	5	3	1	13	15	14	10	8	7	2	1	2	2		0.7	15.4
19-Oct-06	3	4	5	7	5	4	2	2	4	3	4	3	2	3	3	2	0	1	11	13	13	16	15		2.7	15.9	
20-Oct-06	17	9	8	12	9	8	5	5	8	9	9	13	11	11	9	8	9	6	3	3	3	2	2	2		6.7	16.7
21-Oct-06	0	1	2	2	2	2	1	5	4	2	2	2	1	3	2	3	3	2	3	0	1	1	4	7		0.4	7.3
22-Oct-06	5	3	4	5	5	7	6	5	4	5	7	4	6	8	7	6	6	5	2	1	3	9	16	12		4.0	15.6
23-Oct-06	9	14	11	4	3	4	4	5	4	5	6	6	14	15	15	15	7	6	5	4	5	7	8	8		6.0	15.1
24-Oct-06	6	5	2	2	2	3	3	1	0	1	2	2	5	8	7	5	4	9	3	4	4	11	11	9		3.4	11.0
25-Oct-06	9	10	7	6	7	5	7	7	3	6	12	10	8	11	12	8	7	8	9	10	8	7	7	4		6.9	11.9
26-Oct-06	4	5	16	20	20	12	10	10	11	17	21	25	24	23	20	29	28	21	21	20	17	15	13	14		17.0	28.7
27-Oct-06	12	14	13	10	11	14	14	11	10	10	11	9	7	8	7	4	6	5	2	1	0	4	3	2		7.4	14.5
28-Oct-06	2	4	2	1	1	7	7	25	34	27	8	8	8	9	10	11	12	11	10	12	9	13	18	17		10.6	34.4
29-Oct-06	15	13	12	12	8	7	6	7	6	6	7	6	7	11	13	11	11	11	10	12	12	14	11	13		8.8	15.5
30-Oct-06	11	11	10	8	4	3	4	4	3	7	14	13	10	8	10	6	5	5	8	10	10	12	14	12		7.9	13.9
31-Oct-06	11	11	7	9	5	9	10	9	10	9	9	12	9	11	11	11	9	5	2	3	2	3	3	3		7.0	11.6
1-hr Vector	3.5	3.6	3.7	3.3	2.7	2.6	2.1	2.0	2.1	2.7	2.9	4.2	4.3	4.9	5.5	5.2	4.7	3.2	2.8	2.7	3.1	3.4	3.5	3.5			
Hourly Max	16.7	13.7	16.6	19.6	20.2	17.9	18.0	25.4	34.4	26.6	21.5	25.1	24.1	23.0	19.6	28.7	27.9	21.4	21.5	20.5	17.1	15.4	18.4	16.5			

PASZA - Valleyview - Wind Direction Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2006 to November 1, 2006

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
	356.9	331.0	290.8	211.0	183.8	15.6	1.4	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 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-Oct-06	280	280	281	280	284	291	290	275	285	292	303	320	305	296	297	315	289	278	312	209	246	250	218	285	290	WNW
2-Oct-06	287	282	272	182	159	211	200	190	198	193	194	295	210	246	216	191	204	152	132	146	225	211	190	195	222	SW
3-Oct-06	211	233	250	210	201	206	211	207	201	191	191	188	190	205	180	185	227	167	36	176	5	160	178	201	198	SSW
4-Oct-06	227	228	213	215	212	215	209	206	192	191	188	189	193	191	193	207	244	199	199	216	206	186	193	214	202	SSW
5-Oct-06	208	210	219	227	216	215	210	218	206	207	112	204	198	295	326	329	324	318	251	236	233	231	262	293	285	WNW
6-Oct-06	285	294	290	252	248	236	172	212	213	262	286	291	302	327	315	340	335	21	351	347	286	289	290	291	301	WNW
7-Oct-06	293	300	310	302	295	281	227	191	257	292	298	301	309	305	316	321	335	343	354	223	201	187	193	191	304	NW
8-Oct-06	194	199	240	85	338	200	210	216	213	202	189	224	171	162	112	293	248	258	281	187	188	194	210	212	207	SSW
9-Oct-06	199	200	198	215	198	200	200	213	210	200	194	279	300	320	324	321	350	272	330	296	303	318	321	301	295	WNW
10-Oct-06	288	246	252	349	2	21	19	21	25	56	56	55	28	31	32	52	62	55	44	36	36	21	9	9	28	NNE
11-Oct-06	158	1	30	155	163	169	164	161	177	177	166	173	182	194	179	183	183	185	190	188	187	186	190	190	180	S
12-Oct-06	187	188	191	201	204	205	204	211	210	357	33	15	358	35	35	34	18	5	358	327	32	154	337	181	31	NNE
13-Oct-06	116	68	90	186	190	236	27	85	167	29	64	M	M	63	63	68	48	53	42	33	33	14	17	49	53	NE
14-Oct-06	51	92	321	335	320	118	29	23	165	177	172	173	181	183	186	156	166	189	198	193	183	181	183	188	177	S
15-Oct-06	189	172	170	181	186	201	212	200	193	200	201	241	317	313	311	324	321	316	313	302	301	304	309	309	296	WNW
16-Oct-06	307	343	356	0	2	4	1	358	360	360	3	0	2	358	3	5	4	359	1	357	338	324	306	310	356	N
17-Oct-06	279	261	263	266	226	207	186	180	189	189	190	196	203	201	200	207	189	111	198	255	209	197	215	190	207	SSW
18-Oct-06	192	204	190	208	191	204	204	181	183	192	193	201	173	253	333	354	349	357	19	37	37	146	140	161	286	WNW
19-Oct-06	184	172	187	185	190	185	173	187	189	193	183	210	188	146	182	188	215	258	302	290	286	322	335	331	263	W
20-Oct-06	339	7	338	339	327	323	304	296	295	299	304	328	311	304	299	304	304	297	290	267	218	198	107	1	316	NW
21-Oct-06	277	252	182	180	164	205	136	36	60	48	102	180	11	14	11	25	12	6	141	191	268	248	197	191	124	SE
22-Oct-06	188	197	200	202	192	200	186	191	185	187	187	197	186	191	195	186	193	198	317	333	281	306	297	301	223	SW
23-Oct-06	302	302	292	259	196	188	191	163	191	200	196	249	267	272	271	263	243	212	111	212	208	203	188	192	244	WSW
24-Oct-06	187	192	218	310	254	209	206	309	168	99	138	231	190	201	232	257	227	331	187	213	247	278	275	274	241	WSW
25-Oct-06	276	288	267	274	274	258	283	289	223	249	274	255	236	246	253	221	220	203	205	197	200	196	208	232	244	WSW
26-Oct-06	225	246	322	303	274	274	268	270	272	286	284	287	294	291	302	297	293	294	289	288	290	279	268	276	287	WNW
27-Oct-06	270	275	273	268	266	279	285	290	279	285	293	299	313	323	322	321	310	263	238	349	334	7	57	77	289	WNW
28-Oct-06	30	43	42	45	52	5	2	0	1	8	67	60	51	49	46	37	38	32	30	31	36	16	16	15	22	NNE
29-Oct-06	15	16	10	2	357	335	323	315	316	307	309	317	314	320	316	309	314	311	307	300	299	293	288	288	322	NW
30-Oct-06	281	289	290	282	252	192	211	215	217	265	291	293	299	308	300	310	294	280	281	303	303	303	297	288	287	WNW
31-Oct-06	293	296	291	284	304	304	295	289	291	305	313	317	323	317	310	318	324	315	307	293	219	181	194	213	301	WNW
Hourly Avg	276	285	290	287	270	269	267	289	276	280	271	284	287	297	305	316	314	314	307	290	274	281	284	279		

PASZA - Valleyview - Standard Deviation of Wind Direction Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2006 to November 1, 2006

Summary

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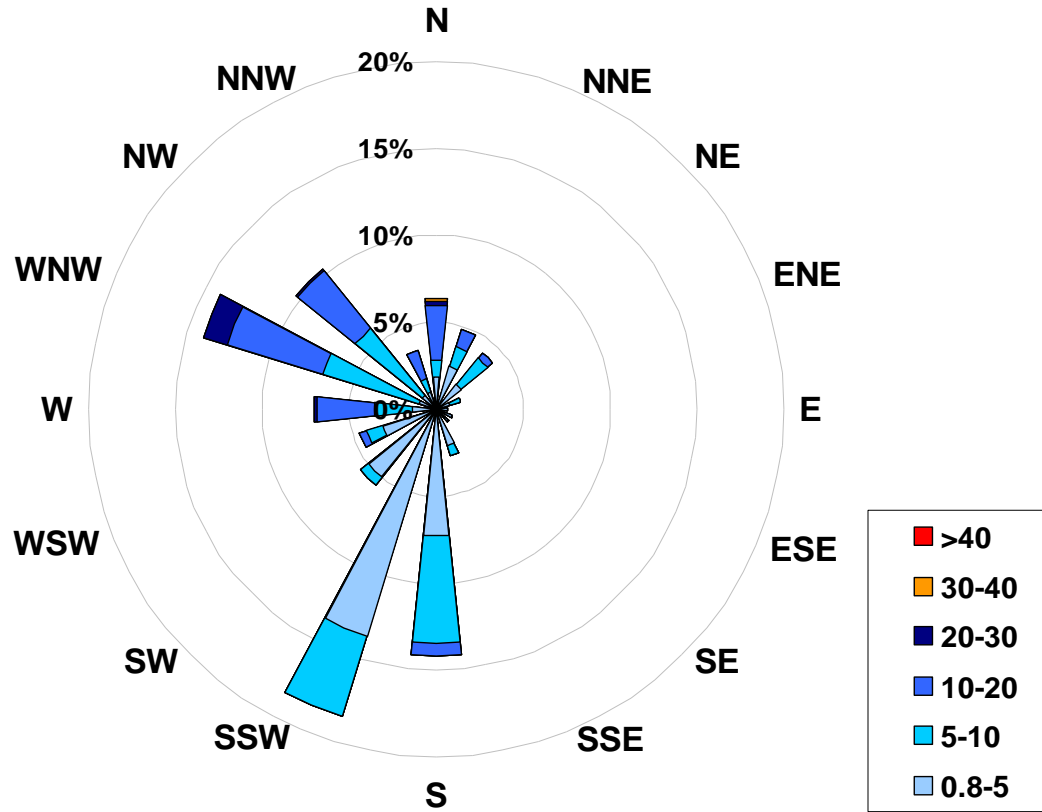
Determined by the Yamartino 15-min interval calculation

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
	59.9	43.9	18.7	10.8	7.4	5.2	4.2

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

Day	Mountain Standard Time																								Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		23:00 0:00
1-Oct-06	7	7	8	6	6	5	5	6	9	9	10	13	17	16	13	12	11	9	11	25	16	6	14	13	25.4	
2-Oct-06	8	10	12	39	29	32	17	12	11	15	42	38	58	63	48	47	30	24	5	17	23	35	10	14	63.5	
3-Oct-06	15	17	22	9	6	5	4	8	8	10	16	21	33	28	31	54	41	41	24	23	37	53	13	12	53.8	
4-Oct-06	11	13	5	23	11	21	9	5	7	10	10	12	15	17	16	13	16	7	4	7	6	9	5	5	23.2	
5-Oct-06	4	4	10	16	8	4	6	22	22	57	33	16	9	28	9	10	8	9	12	14	30	10	17	12	57.5	
6-Oct-06	23	9	7	14	13	17	9	11	10	19	12	22	18	19	17	14	13	8	13	14	12	9	6	14	22.9	
7-Oct-06	9	9	11	13	20	34	66	13	16	18	20	19	18	15	15	13	16	6	5	20	7	14	13	7	65.6	
8-Oct-06	22	11	22	40	45	31	7	33	14	9	28	52	40	47	57	50	43	25	45	18	22	12	5	4	56.7	
9-Oct-06	4	5	7	6	7	5	5	9	6	7	11	21	12	10	9	11	11	28	22	8	5	9	10	7	28.5	
10-Oct-06	7	14	14	9	14	15	14	9	12	19	19	32	32	18	21	19	14	10	7	13	7	10	11	41	40.8	
11-Oct-06	53	43	36	24	14	12	15	16	13	14	18	18	17	13	13	16	10	6	6	7	8	7	7	7	53.3	
12-Oct-06	8	7	8	8	6	22	10	34	50	49	21	48	41	20	31	19	11	23	35	7	37	23	28	40	49.5	
13-Oct-06	31	25	27	30	39	44	29	61	51	39	36	M	M	32	25	20	11	8	6	6	6	15	41	21	61.0	
14-Oct-06	31	27	38	26	58	36	43	44	38	12	11	15	11	11	16	15	14	14	15	8	9	9	10	9	57.8	
15-Oct-06	11	15	11	33	20	20	51	18	16	11	8	19	10	7	9	9	9	8	8	7	8	8	9	9	51.2	
16-Oct-06	8	5	4	5	6	5	5	4	5	6	6	5	6	6	7	7	8	5	5	7	9	14	13	22	21.8	
17-Oct-06	18	23	20	13	12	11	6	7	7	8	10	11	12	9	9	9	23	33	46	26	6	14	6	5	46.0	
18-Oct-06	9	9	11	5	7	17	41	11	23	32	16	7	16	42	13	8	6	10	11	11	47	24	22	17	47.4	
19-Oct-06	11	11	8	7	7	9	16	29	12	9	16	16	15	27	47	61	72	37	14	8	6	11	6	6	71.9	
20-Oct-06	5	8	7	6	7	7	9	8	9	8	12	10	11	14	11	10	7	5	20	8	15	18	28	42	42.1	
21-Oct-06	39	34	40	17	18	23	43	10	16	55	51	57	52	26	26	18	16	30	8	49	25	31	33	6	57.3	
22-Oct-06	11	14	8	6	10	5	7	6	10	12	10	10	11	10	10	10	9	7	9	48	42	9	8	8	47.9	
23-Oct-06	9	8	7	13	19	14	12	13	15	6	10	19	9	10	8	7	10	7	7	8	4	5	5	5	19.3	
24-Oct-06	5	7	23	18	11	9	15	84	88	68	41	41	10	9	18	16	28	32	14	14	12	5	7	9	87.8	
25-Oct-06	8	9	7	9	8	8	7	18	10	16	13	13	19	16	11	10	11	6	4	5	5	6	6	9	19.4	
26-Oct-06	8	12	9	8	8	7	6	5	5	7	8	7	8	7	9	6	6	6	6	6	6	5	6	4	6	12.4
27-Oct-06	6	5	4	5	4	5	6	6	6	8	8	12	14	9	10	12	23	21	19	29	45	9	18	23	44.9	
28-Oct-06	10	13	22	36	28	23	27	21	10	17	11	12	11	11	9	9	7	9	7	7	9	6	5	5	35.9	
29-Oct-06	6	6	7	7	7	5	5	8	8	7	9	10	8	7	7	8	6	7	8	6	11	6	7	6	11.5	
30-Oct-06	6	6	5	10	20	16	8	8	8	11	7	7	8	11	9	15	17	15	8	8	7	7	5	6	20.2	
31-Oct-06	10	7	9	7	19	10	8	11	10	9	8	7	9	9	8	7	6	9	25	10	19	10	11	7	24.9	
Hourly Max	53	43	40	40	58	44	66	84	88	68	51	57	58	63	57	61	72	41	46	49	47	53	41	42		

1-hr Average Wind Rose (in km/hr) Located at the Valleyview Site for October 2006



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	339
5	to	10	234
10	to	20	153
20	to	30	15
30	to	40	1
	>	40	0
Total Non-Zero Values			742

PASZA

Monthly Passive Data Summary

Table 1. PASZA Passive Stations for October 2006

PASZA					
Station Number	Station Name	SO ₂ ppb	O ₃ ppb	NO ₂ ppb	Site Legal
Duplicates					
46a	Little Smoky	0.2	18.3	3.1	
46b	Little Smoky	0.4	18.5	2.7	
47a	Kinuso	0.3	20.2	0.8	
47b	Kinuso	0.2	20.0	0.8	
48a	Deer Mountain	0.1	21.0	0.6	
48b	Deer Mountain	0.2	21.4	0.8	
49a	Grande Prairie HP	0.2	17.5	9.8	
49b	Grande Prairie HP	0.2	18.0	9.3	
1	Silver Valley	0.4	24.5	1.5	08-27-081-11 W6M
2	Bay Tree	0.4	46.7	0.9	13-16-078-13 W6M
3	Forth Creek	0.3	29.4	1.3	04-13-082-07 W6M
4	Gordondale	0.5	29.9	2.0	04-34-078-10 W6M
5	Boone Creek	0.4	24.1	N/A	01-23-076-11 W6M
7	Steeprock Creek	0.1	31.6	1.1	09-35-072-13 W6M
9	Spirit River	0.4	24.4	1.7	08-12-079-07 W6M
10	Woking	0.4	30.3	1.8	01-13-076-07 W6M
11	Webber Creek	0.4	18.9	1.8	09-36-074-09 W6M
12	Hythe	0.2	26.6	1.7	14-36-072-11 W6M
14	Sylvester	N/A	N/A	N/A	08-06-069-12 W6M
16	Beaverlodge	0.2	29.0	3.0	15-36-071-10 W6M
17	Poplar	0.2	22.0	1.5	13-06-073-08 W6M
18	Saddle Hills	0.3	21.8	1.7	04-25-074-07 W6M
19	Wanham	0.5	28.6	1.2	16-22-077-03 W6M

Table 1. PASZA Passive Stations for October 2006 (Continued)

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
20	Shaftesbury	0.2	22.2	1.0	04-03-082-23 W5M
21	Eaglesham	0.3	22.6	0.8	16-21-079-25 W5M
23	Bear Lake	0.3	18.6	2.5	15-31-072-06 W6M
24	Wembley	0.2	21.1	2.3	12-31-070-08 W6M
25	Pinto Creek	0.1	25.3	1.4	04-24-069-11 W6M
26	Flyingshot	0.2	19.7	2.1	15-36-070-07 W6M
27	Grande Prairie I	0.2	18.2	6.8	08-15-071-06 W6M
28	Clairmont Lake	0.2	21.8	2.3	09-06-073-04 W6M
29	Smoky Heights	0.4	23.9	2.0	04-06-075-02 W6M
30	Fitzsimmons	0.2	20.2	2.1	15-36-072-03 W6M
32	Gold Creek	0.2	15.6	2.8	06-33-067-05 W6M
33	Wapiti	0.1	21.8	1.8	02-25-071-03 W6M
34	Puskwaskau	0.1	18.0	0.6	15-35-074-25 W5M
35	Jean Cote	0.3	25.4	1.4	12-35-079-21 W5M
36	Guy	0.5	21.9	1.0	03-04-076-22 W5M
37	Crooked Creek	0.5	21.6	2.0	16-01-071-26 W5M
38	Karr Creek	N/A	N/A	N/A	10-16-065-02 W6M
39	Clouston Creek	0.2	22.1	1.4	12-01-073-22 W5M
40	McLennan	0.4	24.6	1.2	03-29-077-19 W5M
41	Valleyview	0.6	25.2	1.4	09-30-069-22 W5M
42	Sunset House	0.4	29.9	1.0	05-32-070-19 W5M
43	High Prairie	0.2	29.4	1.1	16-13-074-17 W5M
44	Peavine	0.3	22.1	0.6	03-05-079-15 W5M
45	Gift Lake	0.1	27.3	1.1	10-07-079-12 W5M
46	Little Smoky	0.3	18.4	2.9	12-01-065-21 W5M
47	Kinuso	0.3	20.1	0.8	12-10-073-10 W5M
48	Deer Mountain	0.1	21.2	0.7	15-22-068-09 W5M
49	Grande Prairie HP	0.2	17.7	9.5	17-26-071-06 W6M

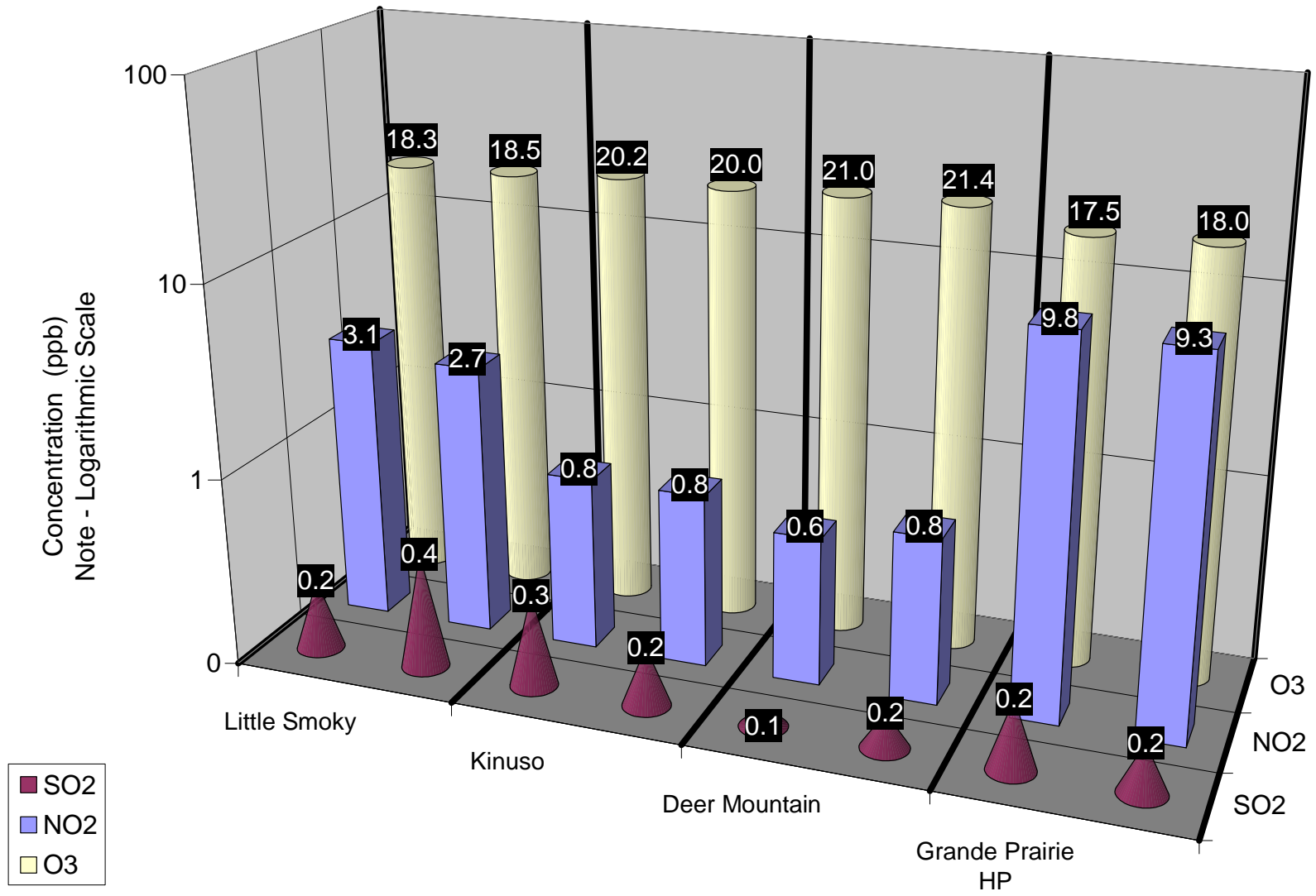


Figure 60. Duplicate Summary Chart

Table 2. Passive Summary Results for October 2006

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

Passive Summary for October 2006 (PASZA Zone)			
Mean	0.3	24.0	1.9
Standard Deviation	0.1	5.4	1.6
Minimum	0.1	15.6	0.6
Maximum	Pinto Creek (#25)	Gold Creek (#32)	Peavine (#44)
	0.6 Valleyview (#41)	46.7 Bay Tree (#2)	9.5 Grande Prairie HP (#49)

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

	SO ₂	O ₃	NO ₂
AENV Beaverlodge station	0.3	25.1	3.7
PASZA Beaverlodge passive	0.2	29.0	3.0

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

	SO ₂	O ₃	NO ₂
PASZA Henry Pirker station	0.2	15.7	10.8
PASZA Grande Prairie passive	0.2	17.7	9.5

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

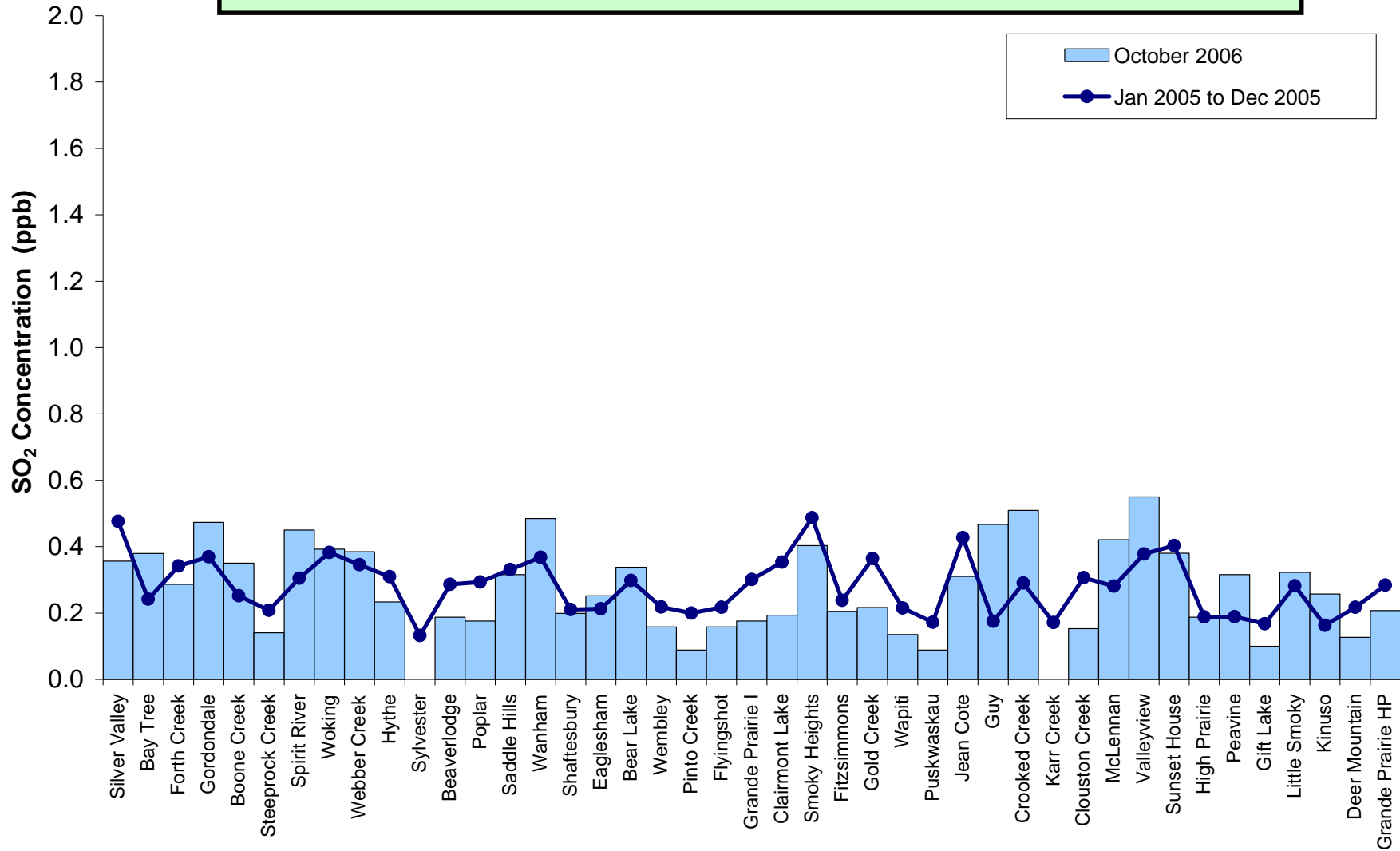


Figure 62. SO₂ Summary Chart

PASZA Passive O₃ Stations - October 2006 Average Concentrations in ppb

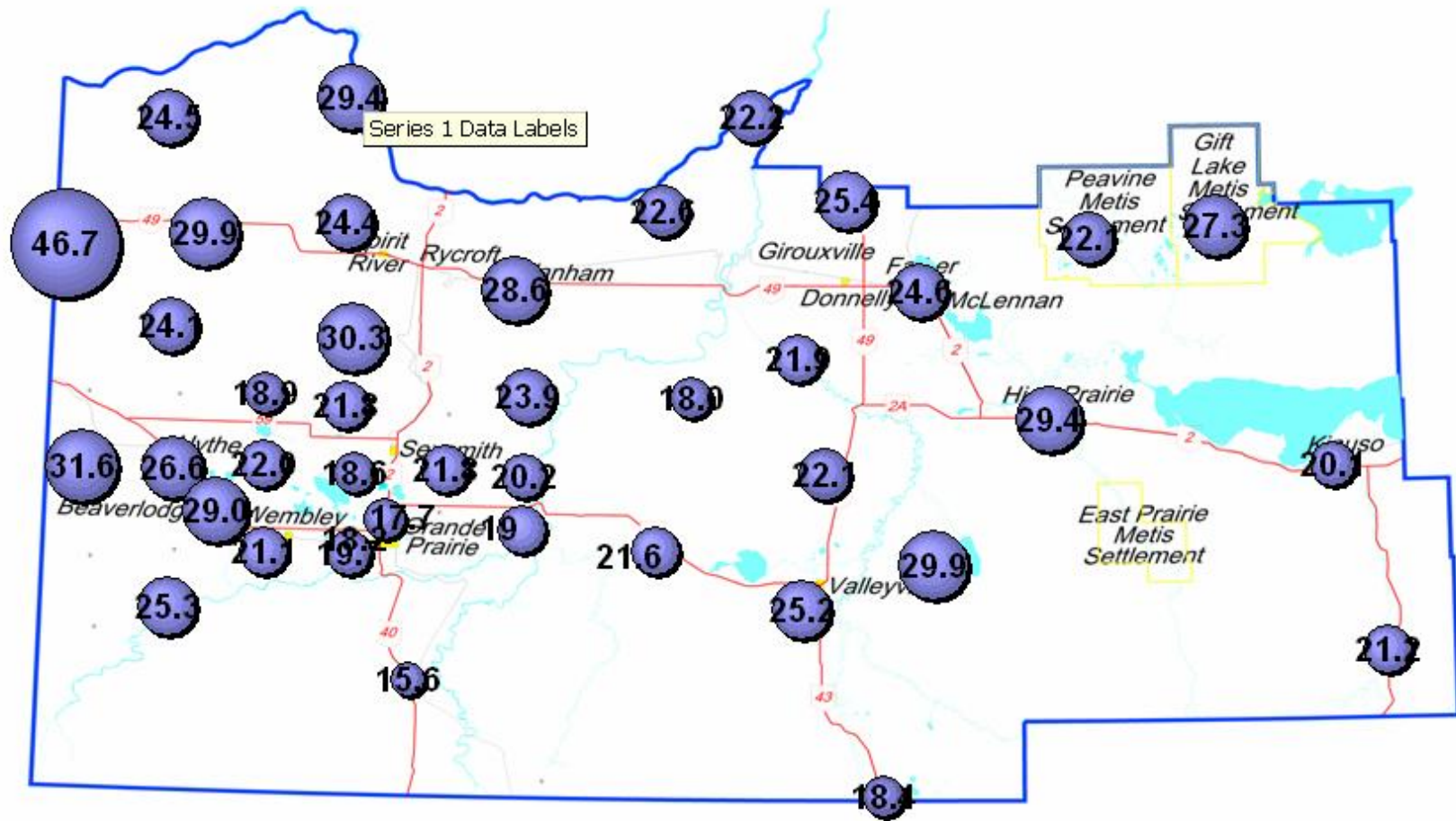


Figure 63. O₃ Bubble Chart

Alberta Ambient Air Quality Objective - No Annual O₃ Objective

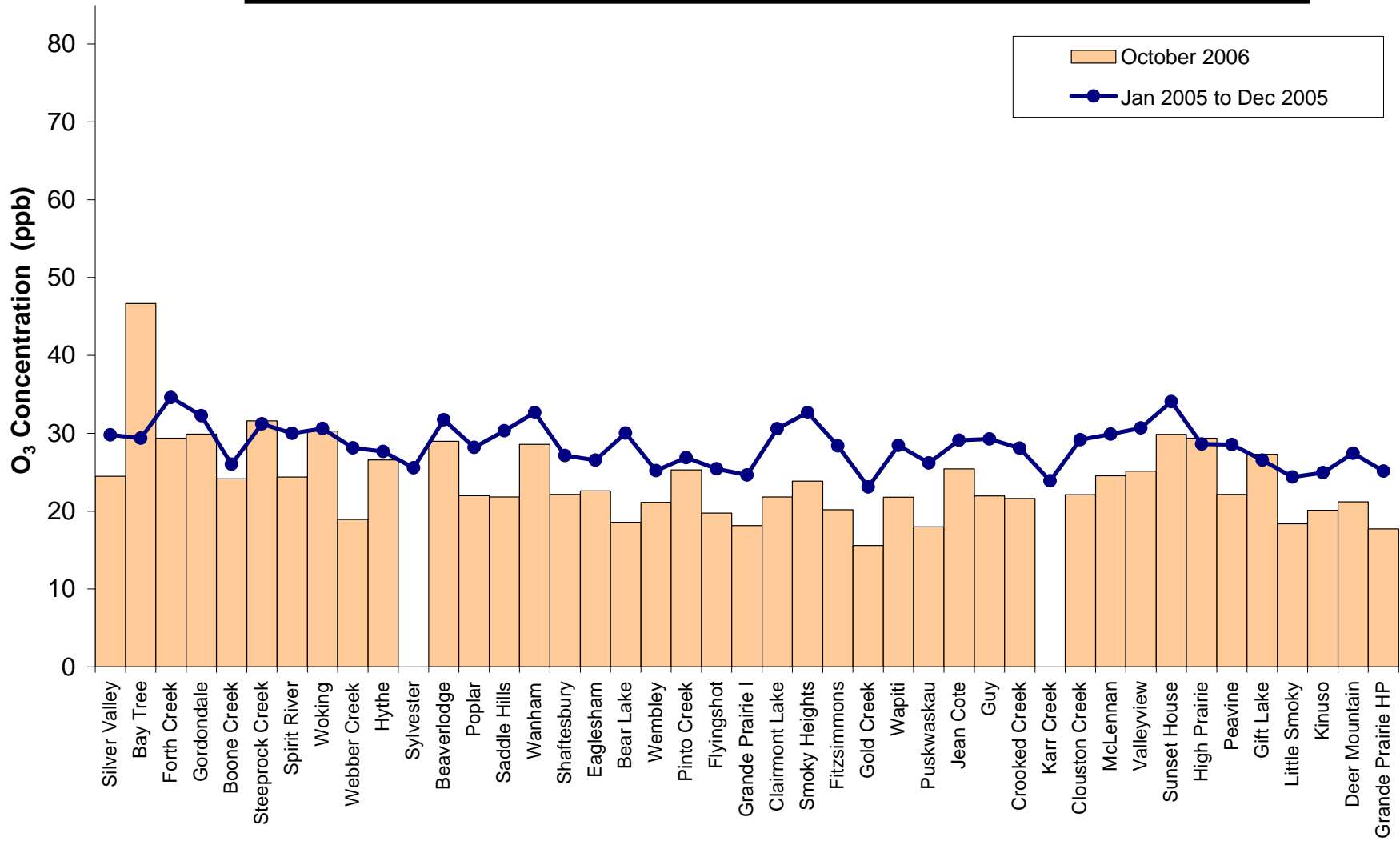


Figure 64. O₃ Summary Chart

PASZA Passive NO₂ Stations - October 2006
Average Concentrations in ppb

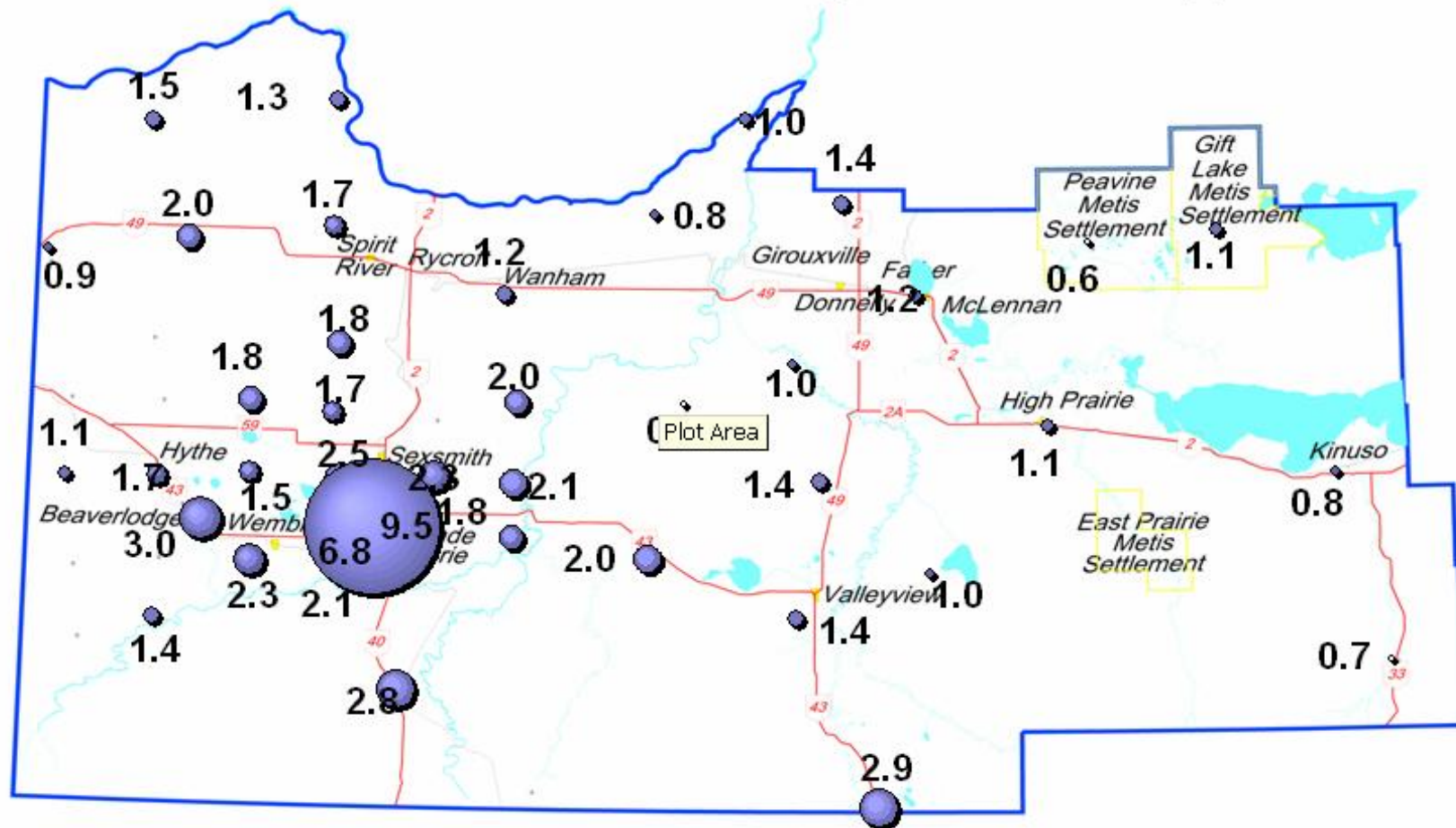


Figure 65. NO₂ Bubble Chart

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

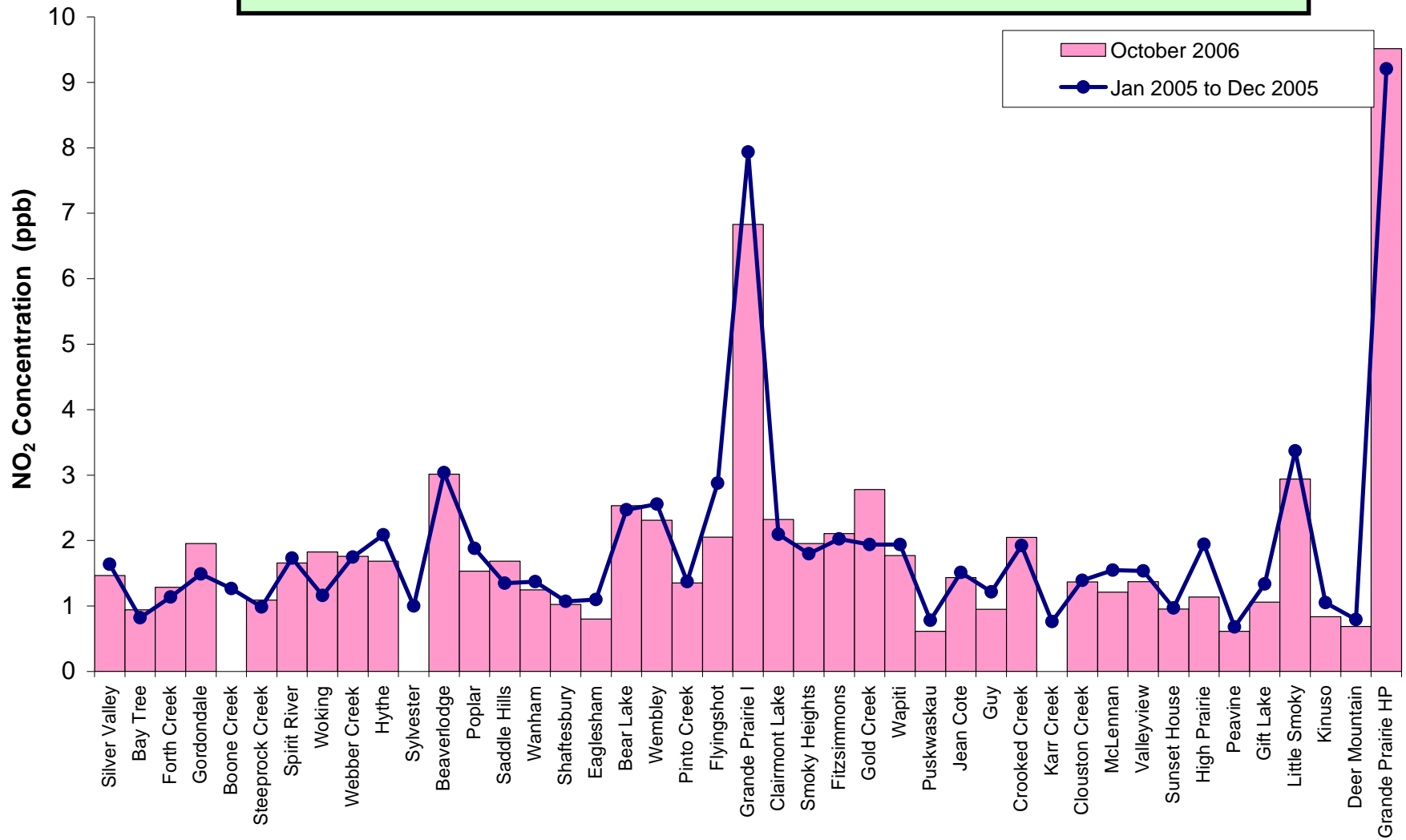


Figure 66. NO₂ Summary Chart

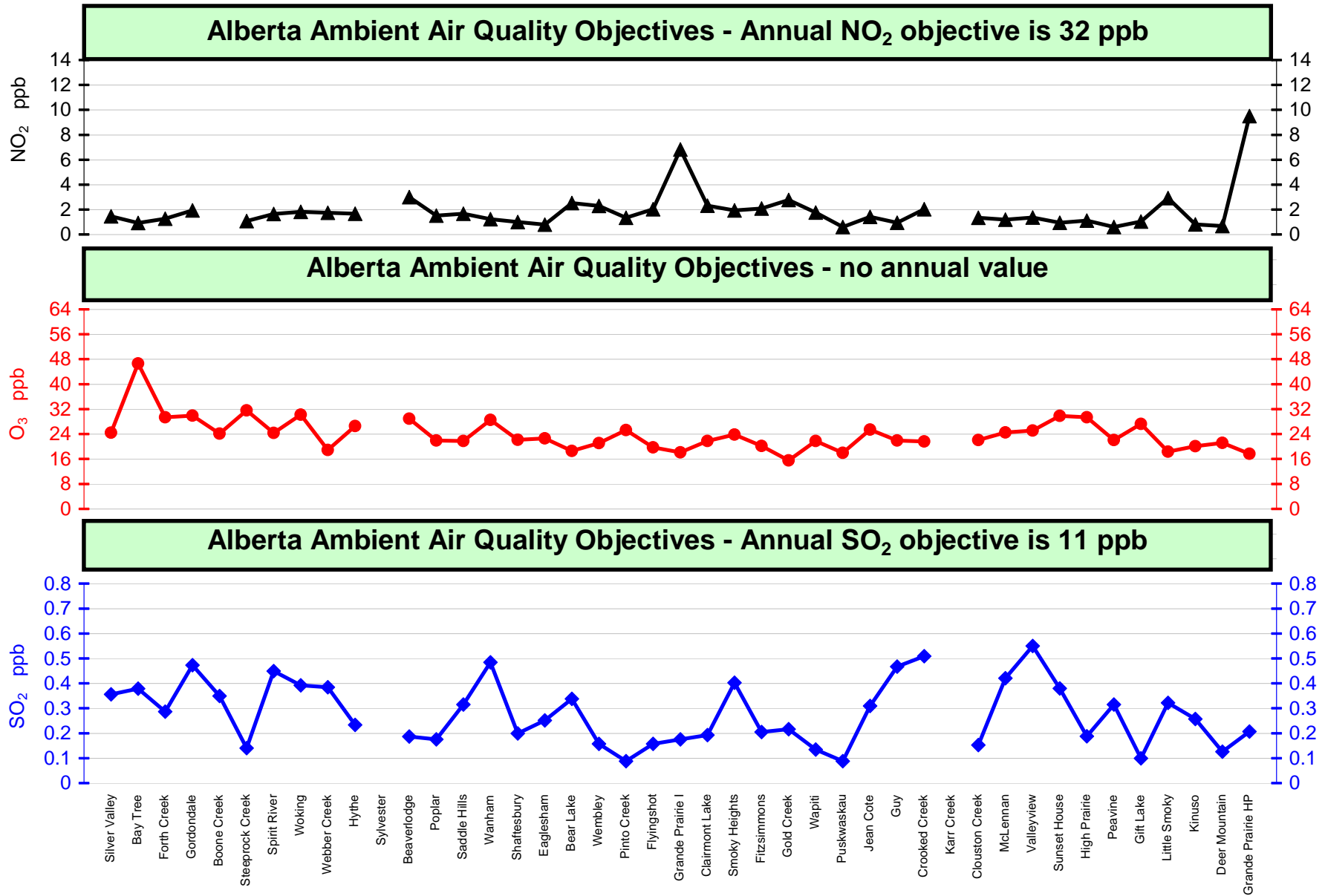


Figure 67. Overview Summary

October 2006 Calibration Reports

PASZA - Henry Pirker Station with the following calibrations:

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

PASZA – Evergreen Park Station with the following calibrations:

SO₂, TRS, PM_{2.5}

PASZA – Smoky Heights Station with the following calibrations:

SO₂, TRS, PM_{2.5}

PASZA – Beaverlodge Station with the following calibrations:

SO₂, NO, NO₂, NO_x, O₃, PM_{2.5}

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

SO₂, TRS, O₃

PASZA – Valleyview Station with the following calibrations:

SO₂, H₂S

Calibration ReportParameter SO₂Air Monitoring Network PASZA**Station Information**

Calibration Date	October 5, 2006	Previous Calibration	September 8, 2006
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:47	End Time (MST)	15:03
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
	<u>Before</u>		<u>After</u>
Calculated slope	0.989582	Calculated slope	0.969066
Calculated intercept	-0.636477	Calculated intercept	-0.374166
Analyzer make	TEI Model 43A	Analyzer serial #	43A-21120-195

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
SO ₂ zero pot	166		170	
SO ₂ span pot	175		233	
UV Lamp voltage	939	V	947	V
Vacuum	22.2	" Hg	22.2	" Hg
Sample Flow	425	ccm	425	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	2401.9	0.0	-0.4	N/A
2575	2401.9	309.3	318.9	0.9698
5015	4677.8	158.8	165.2	0.9611
9000	8394.9	88.5	92.2	0.9602
zero	2331.9	0.0	0.4	As Found Zero
2500	2331.9	318.5	311.7	As Found Span
Average Correction Factor				0.9637

Calculated value of As Found Response: 307.437 ppm Percent Change of As Found: 3.5%

	before calibration		after calibration	
Auto zero	-0.3	ppm	-0.7	ppm
Auto span	277.0	ppm	276.3	ppm

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

Calibration Summary

Parameter SO2
 Air Monitoring Network PASZA

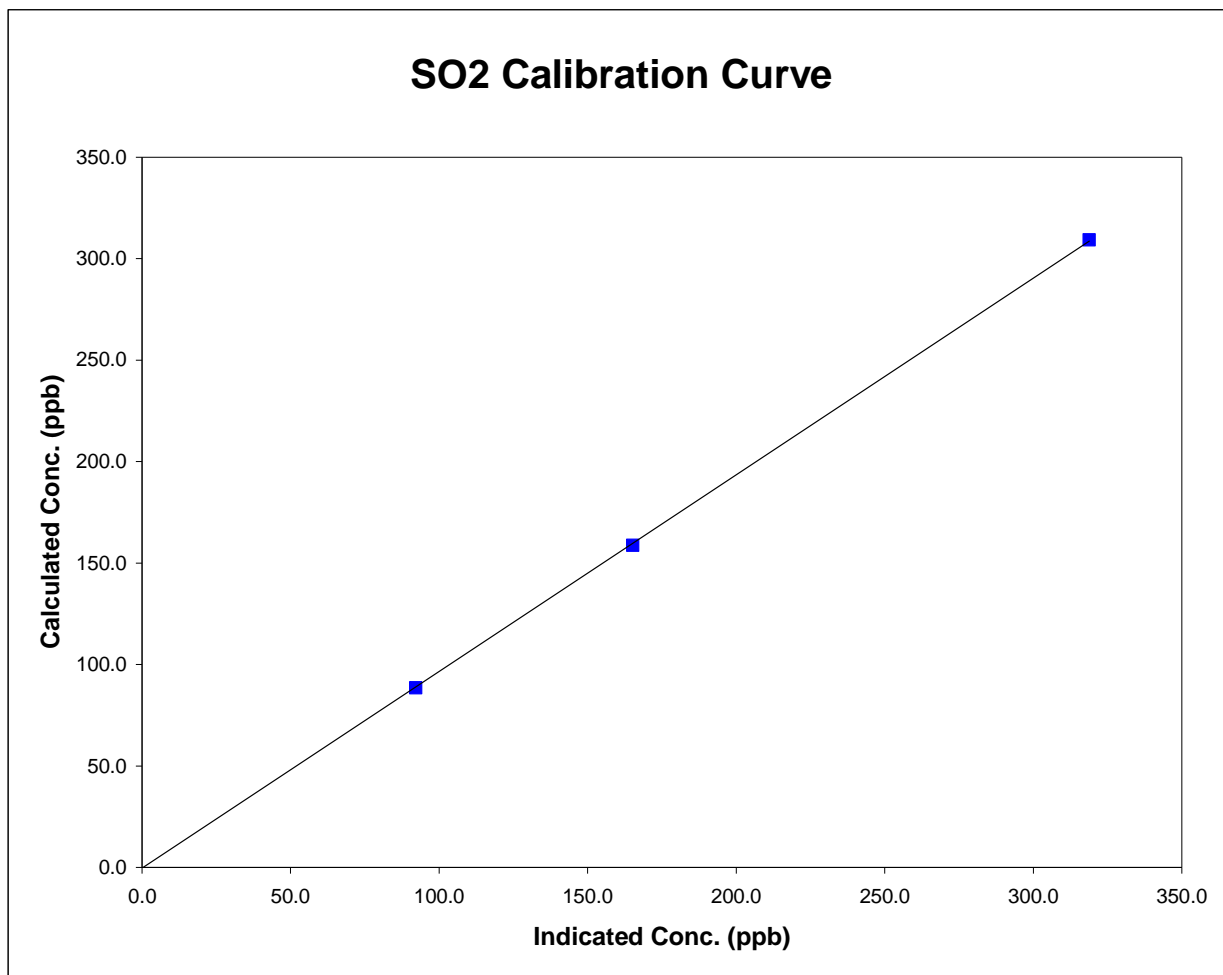


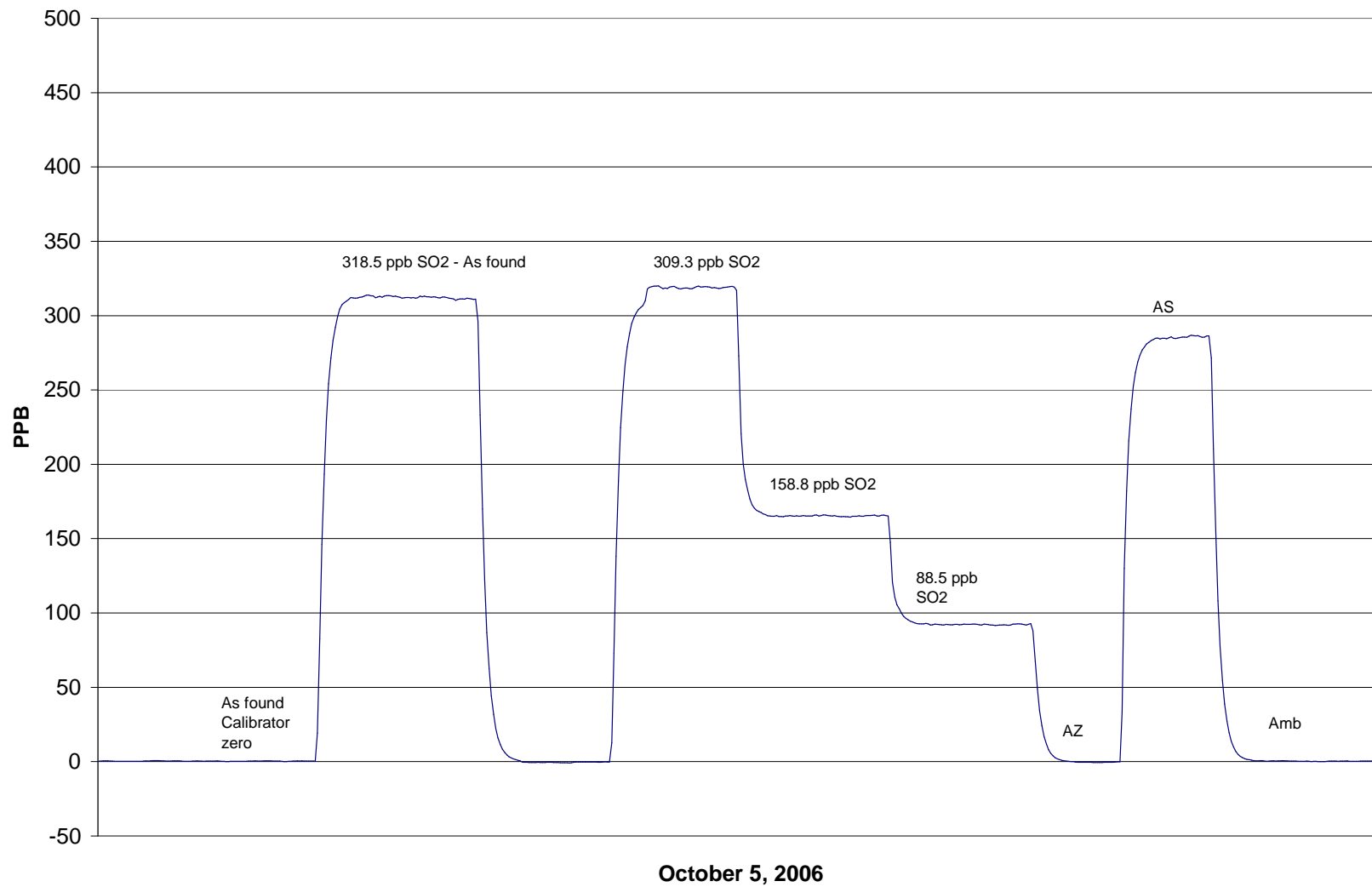
Station Information

Calibration Date	October 5, 2006	Previous Calibration	September 8, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	10:47	End Time (MST)	15:03
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		
309.3	318.9	0.9698	Correlation Coefficient	0.999960
158.8	165.2	0.9611		
88.5	92.2	0.9602	Slope	0.969066
			Intercept	-0.374166



SO2 Calibration

Calibration Report

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

**Station Information**

Calibration Date	<u>October 24, 2006</u>	Previous Calibration	<u>September 11, 2006</u>
Station Number	<u>1</u>	Station Location	<u>Muskoseepi Park</u>

Reason: Routine Installation Removal Other: _____

Start Time (MST)	<u>10:38</u>	End Time (MST)	<u>17:10</u>
Barometric Pressure	<u>0.909</u> Atm	Station Temperature	<u>20.0</u> Deg C
Calibrator	<u>EnviroNics 6103</u>	Serial Number	<u>2844</u>
NO Cal Gas Conc	<u>50.3</u> ppm	Cal Gas Expiry Date	<u>22-Nov-06</u>
NOx Cal Gas Conc	<u>50.5</u> ppm	Cal Gas Serial #	<u>BAL786</u>

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	Data Slope	1.008795	1.003387	0.998934
	Data Offset	-0.321511	0.483780	0.400078
After	Data Slope	1.000846	0.999882	0.997306
	Data Offset	0.328645	2.203904	1.928013
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model Teco 42C Analyzer serial # 508011073

Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO background	8.5	ppb	9.4	mV
NOx background	8.7	ppb	10.9	mV
NO coefficient	0.809		0.874	
NOx coefficient	0.986		0.981	
Chamber Temp	49.8	Deg C	50.0	Deg C
Cooler Temp	-2.5	Deg C	-2.4	Deg C
Converter Temp	318.0	Deg C	318.0	Deg C
Vacuum	190.5	mm Hg	194.5	mm Hg

Notes: Adjusted zero and span.

Calibration Report

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



Station Information

Calibration Date: **October 24, 2006** Station Location: **Muskosepi Park**

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	
zero	4992	0.00	0.0	0.0	0.0	-0.3	0.0	-0.4	N/A	N/A	
1	4992	39.93	400.7	399.1	1.6	399.5	399.2	0.2	1.0032	0.9999	
2	4992	19.91	200.6	199.8	0.8	197.6	197.6	0.0	1.0151	1.0111	
3	4992	10.00	101.0	100.6	0.4	96.8	96.9	-0.2	1.0433	1.0377	
AFZ	4992	0.00	0.0	0.0	0.0	1.6	0.0	1.5	0.0000	0.0000	
AFS	4992	39.93	400.7	399.1	1.6	368.1	362.4	5.7	1.0888	1.1013	
									Average Correction Factor	1.0205	1.0163

As Found Concentrations: **NO_x= 366.9** **NO= 362.8** As Found Percent Change **NO_x= -8.4%** **NO= -9.1%**

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

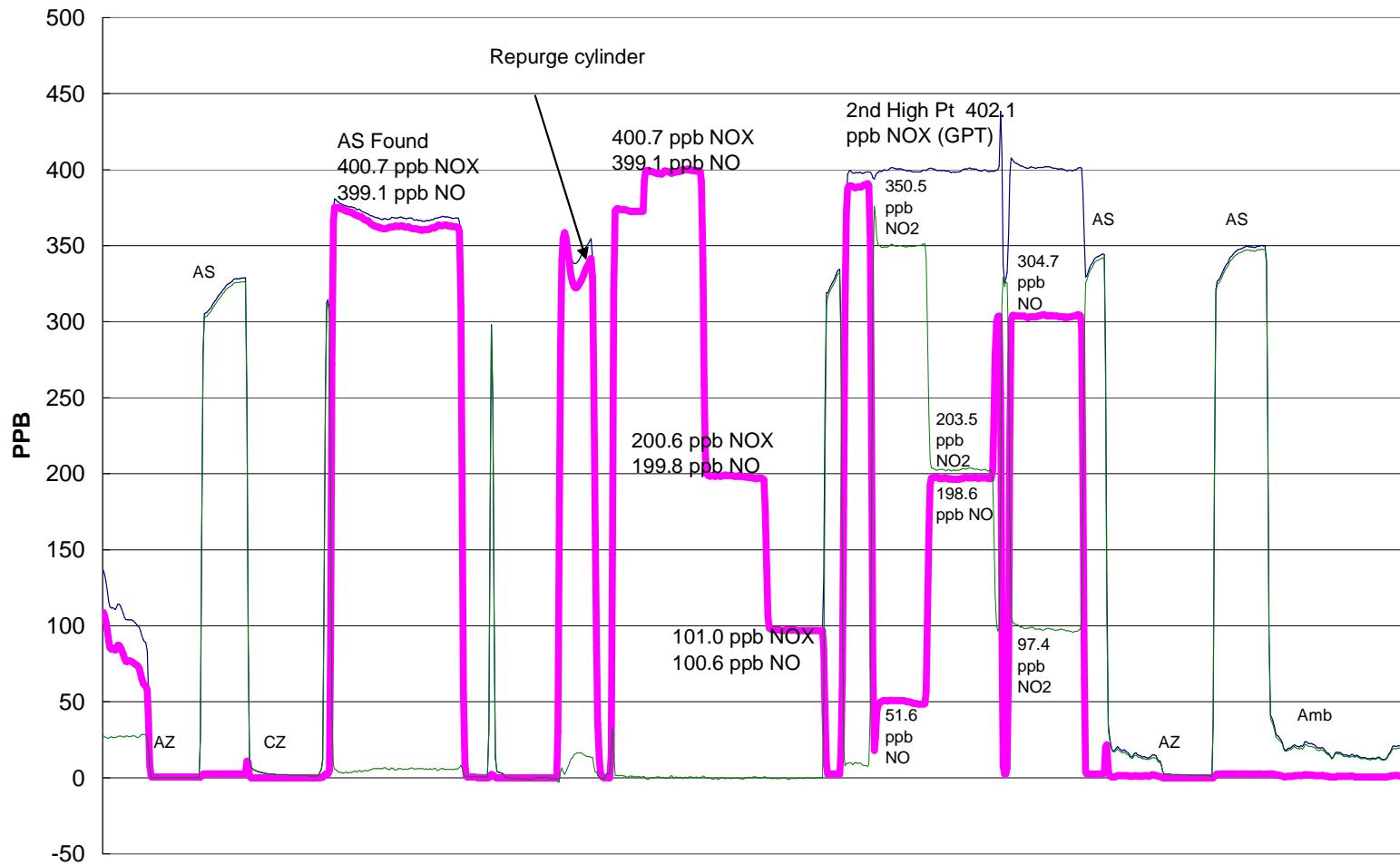
O3 Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency	
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A	
NO point	402.1	390.1	12.0	398.2	389.2	9.0	1.0097	1.0023	N/A	N/A	
350	402.1	51.6	350.5	399.5	49.8	349.9	1.0065	1.0361	1.0017	99.8%	
200	402.1	198.6	203.5	399.8	197.2	202.9	1.0055	1.0071	1.0029	99.7%	
100	402.1	304.7	97.4	400.4	303.6	97.1	1.0042	1.0037	1.0034	99.7%	
							Average Correction Factor	1.0054	1.0156	1.0027	99.7%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	1.1	0.9	1.0	ppb	1.7	0.5	1.0	ppb
Auto span	325.6	324.2	2.9	ppb	350.9	347.0	4.4	ppb

Calibration Performed By: Dawn Ewan

NOx Calibration



October 24, 2006

Calibration Summary

Parameter NO₂
 Air Monitoring Network PASZA

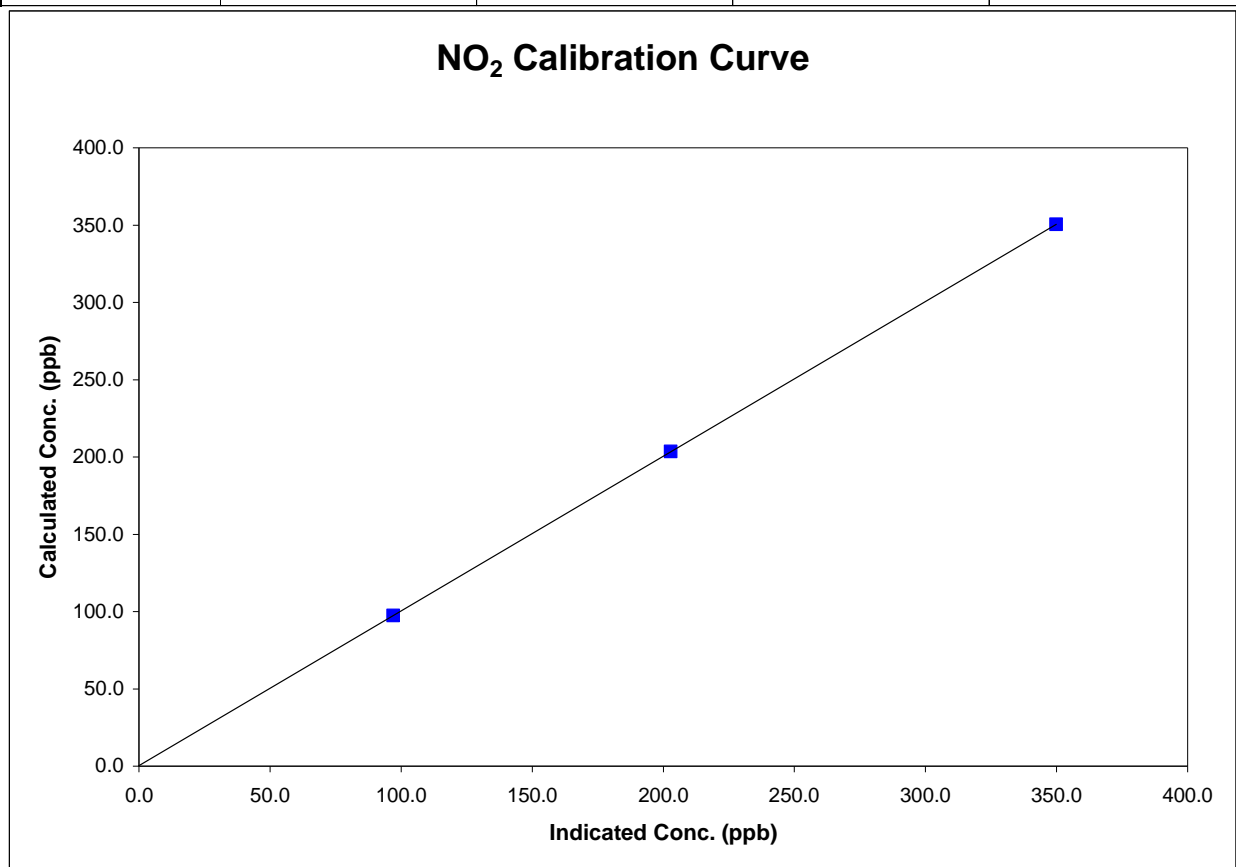


Station Information

Calibration Date	October 24, 2006	Previous Calibration	September 11, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	10:38	End Time (MST)	17:10
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.4	0.0000	Correlation Coefficient	1.000000
350.5	349.9	1.0017		
203.5	202.9	1.0029		
97.4	97.1	1.0034		
			Slope	1.000846
			Intercept	0.328645



Calibration Summary

Parameter NO_x
 Air Monitoring Network PASZA

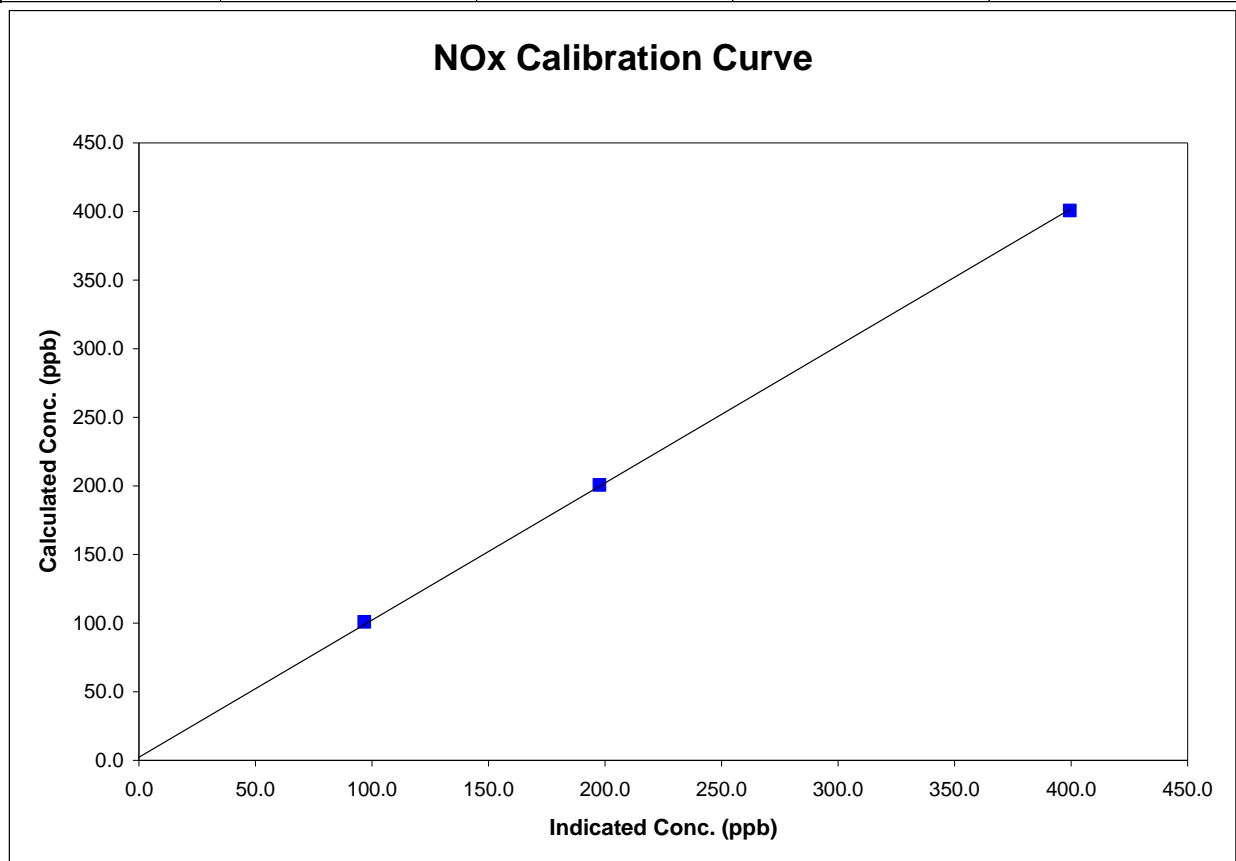


Station Information

Calibration Date	October 24, 2006	Previous Calibration	September 11, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	10:38	End Time (MST)	17:10
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	0.0000		
400.7	399.5	1.0032	Correlation Coefficient	0.999896
200.6	197.6	1.0151		
101.0	96.8	1.0433	Slope	0.999882
			Intercept	2.203904



Calibration Summary

Parameter NO
 Air Monitoring Network PASZA

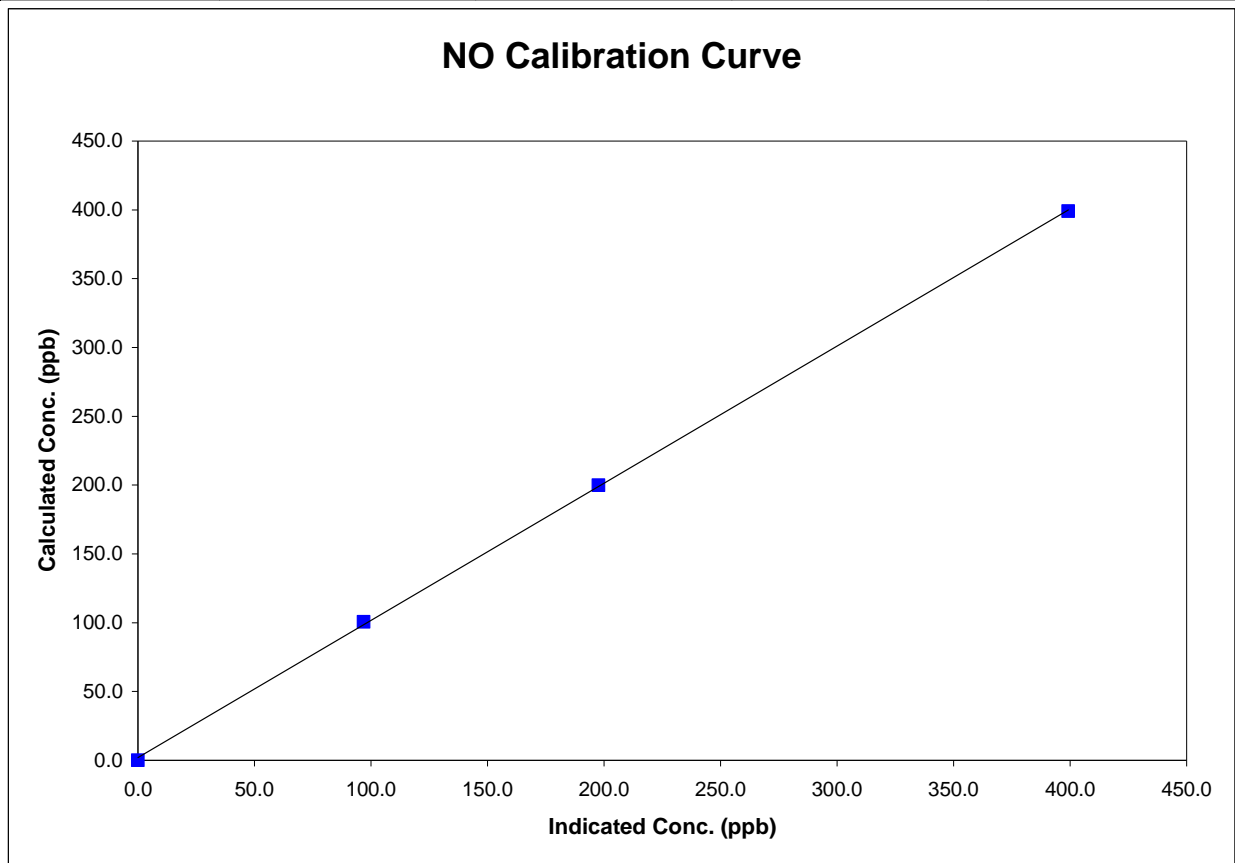


Station Information

Calibration Date	October 24, 2006	Previous Calibration	September 11, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	10:38	End Time (MST)	17:10
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
399.1	399.2	0.9999	Correlation Coefficient	0.999896
199.8	197.6	1.0111		
100.6	96.9	1.0377		
			Slope	0.997306
			Intercept	1.928013



Calibration Report



Parameter 03
 Air Monitoring Network PASZA

Station Information

Calibration Date	<u>October 26, 2006</u>	Previous Calibration	<u>September 12, 2006</u>
Station Number	<u>1</u>	Station Location	<u>Muskoseepi Park</u>
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	<u>11:52</u>	End Time (MST)	<u>14:49</u>
Barometric Pressure	<u>0.919</u> atm	Station Temperature	<u>20.0</u> Deg C
Calibrator	<u>Enviroics 6103</u>	Serial Number	<u>2844</u>
Cal Gas Concentration	<u>NA</u>	Cal Gas Expiry Date	<u>NA</u>
DACS make	<u>Focus AP1000</u>	DACS serial No.	<u>45269</u>
DACS voltage range	<u>0 - 1 volt</u>	DACS channel #	<u>5</u>
	<u>Before</u>		<u>After</u>
Calculated slope	<u>0.996703</u>	Calculated slope	<u>0.996937</u>
Calculated intercept	<u>-0.066119</u>	Calculated intercept	<u>1.220767</u>
Analyzer make	<u>API Model 400</u>	Analyzer serial #	<u>383</u>

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
offset	-0.8	ppb	-0.9	ppb
slope	1.055		1.083	
Lamp measure	3733	mV	3675	mV
Lamp Reference	3734	mV	3675	mV
Pressure	27.5	inches Hg	27.5	inches Hg
Sample Flow	671	ccm	670	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	0.4	N/A
4992	0.00	350.5	351.9	0.9961
4992	0.00	203.5	200.7	1.0138
4992	0.00	97.4	95.5	1.0199
4992	0.00	0.0	0.4	As found zero
4992	0.00	350.5	339.0	As found span
Average Correction Factor				1.0099

Calculated value of As Found Response: 337.4 ppm Percent Change of As Found: -3.7%

	before calibration		after calibration	
Auto zero	0.8	ppb	1.7	ppb
Auto span	210.2	ppb	220.2	ppb

Notes: Span adjusted.

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter 03

Air Monitoring Network PASZA

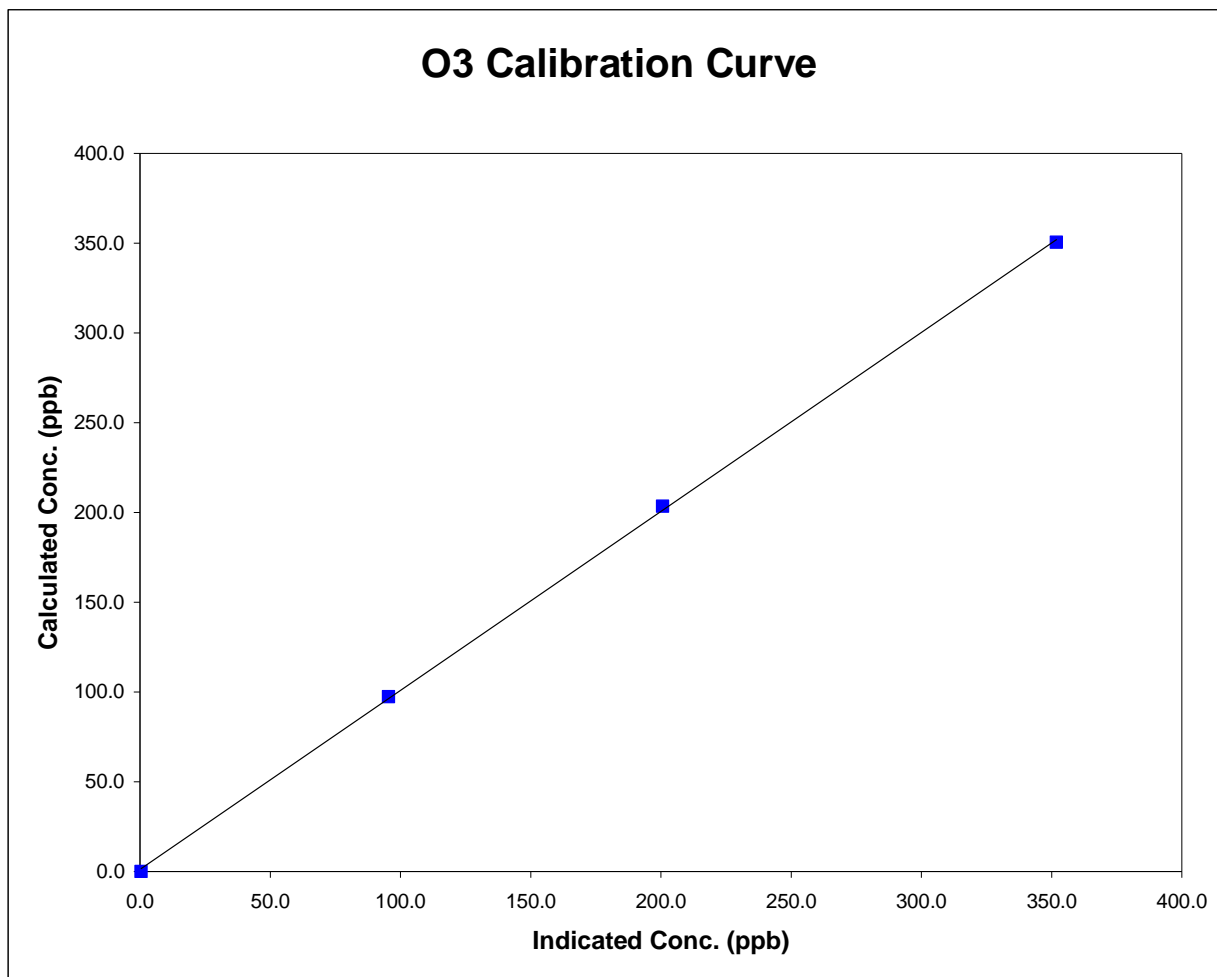


Station Information

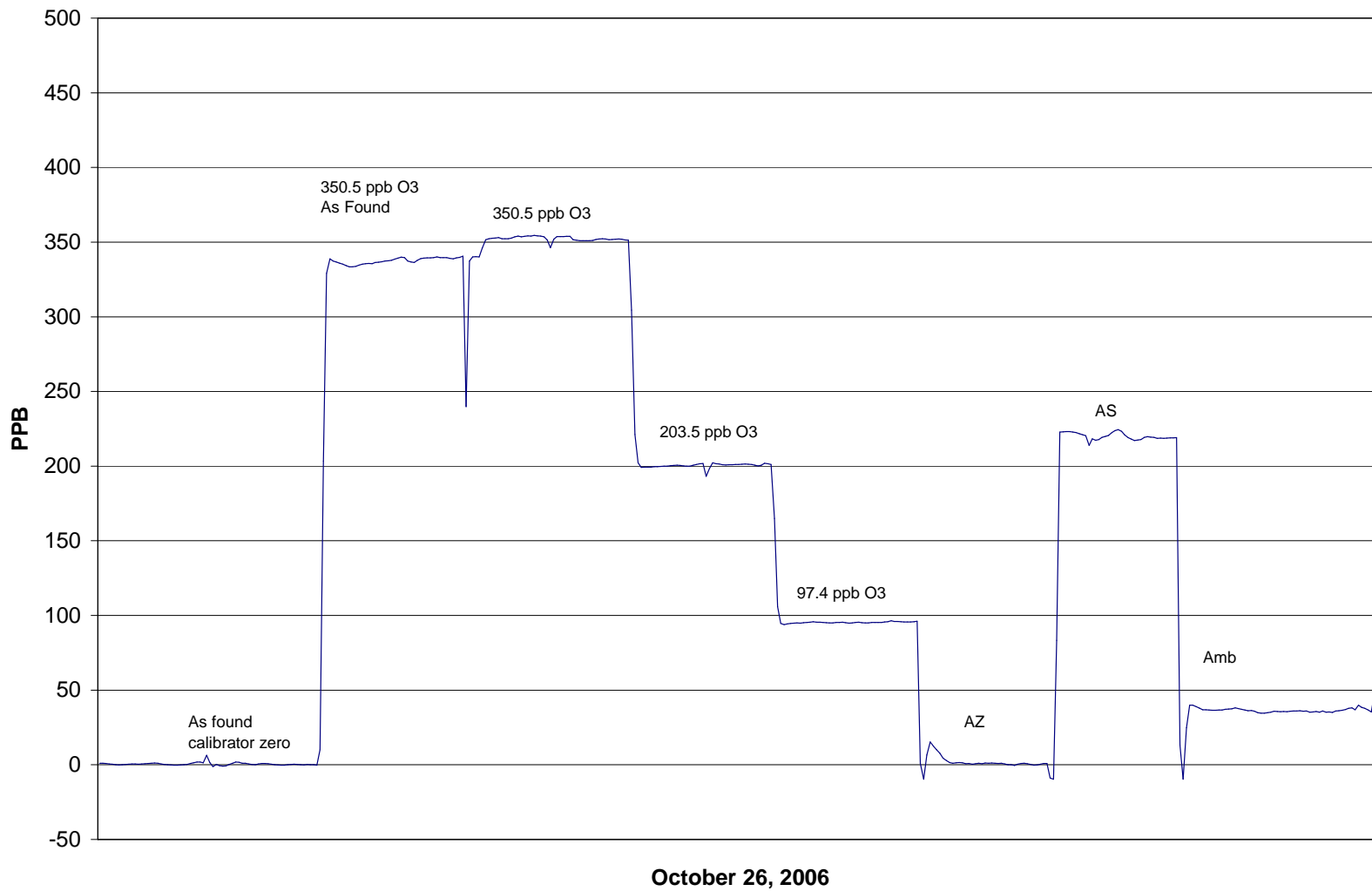
Calibration Date	October 26, 2006	Previous Calibration	September 12, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	11:52	End Time (MST)	14:49
Analyzer make/model	API Model 400	Analyzer serial #	383

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.4	NA	Correlation Coefficient	0.999843
350.5	351.9	0.9961		
203.5	200.7	1.0138		
97.4	95.5	1.0199	Slope	0.996937
			Intercept	1.220767



O3 Calibration



Calibration Report



Parameter CO
 Air Monitoring Network PASZA

Station Information

Calibration Date	October 5, 2006	Previous Calibration	September 8, 2006
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:47	End Time (MST)	14:55
Barometric Pressure	0.916 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2977
Cal Gas Conc	3000 ppm	Cal Gas Expiry Date	AUG 28/05
		Cal Gas Cylinder #	AAL20565
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.010399	Calculated slope	1.003034
Calculated intercept	-0.092031	Calculated intercept	-0.009012
Analyzer make	TEI Model 48C	Analyzer serial #	508011062

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
CO span setting	1.042		1.053	
CO zero setting	6.583		6.987	
Sample pressure	685.4	mm Hg	685.9	mm Hg
Sample Flow	1.074	LPM	1.084	LPM

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4994	0.00	0.00	0.04	N/A
4994	39.94	23.80	23.77	1.0014
4994	19.91	11.91	11.82	1.0075
4994	9.50	5.70		
4994	0.00	0.00	0.39	As Found Zero
4994	39.94	23.80	24.11	As Found Span
Average Correction Factor				1.0044

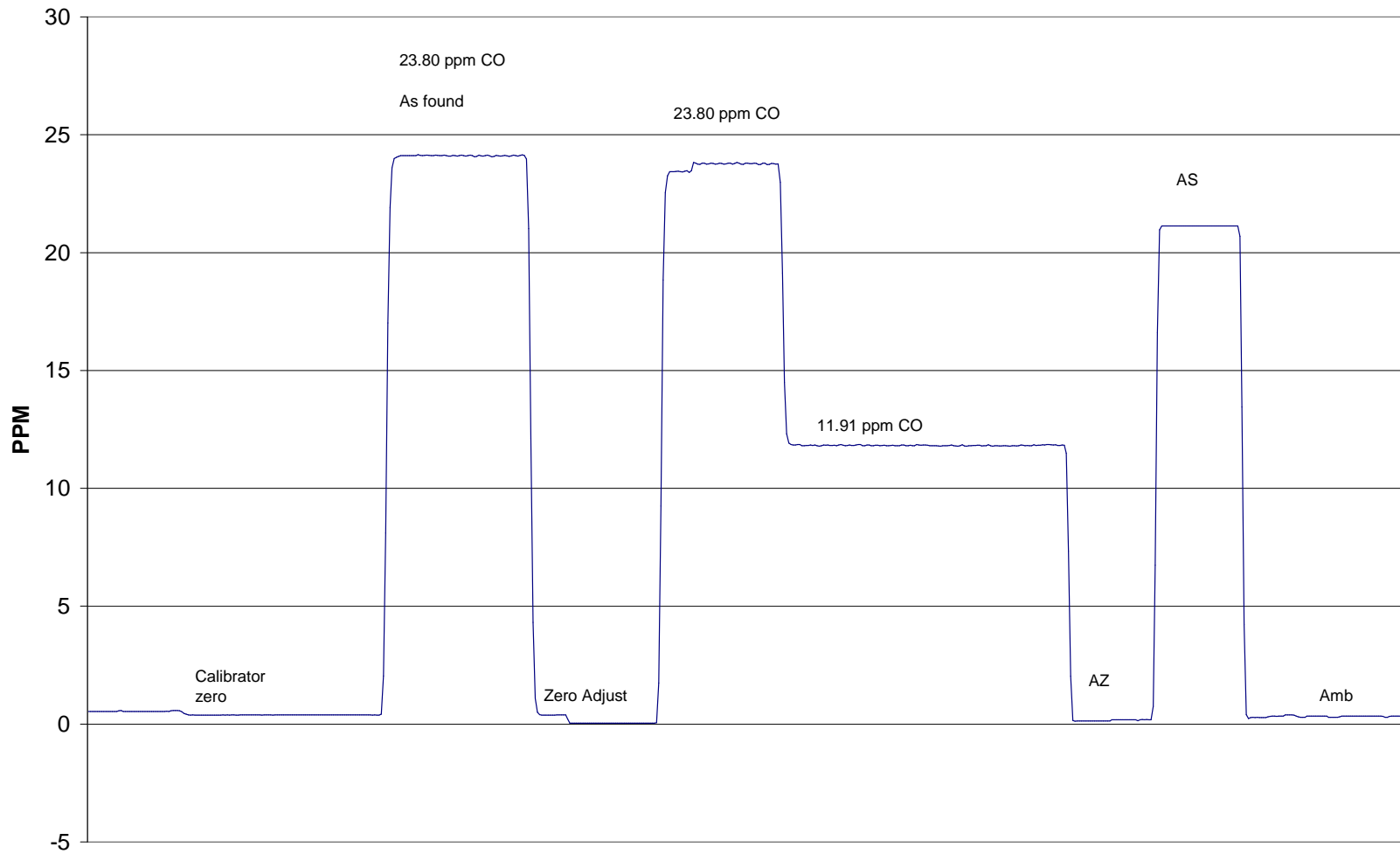
Calculated value of As Found Response: 23.873 ppm Percent Change of As Found: -0.3%

	before calibration		after calibration	
Auto zero	0.10	ppm	0.16	ppm
Auto span	21.00	ppm	21.19	ppm

Notes: _____

Calibration Performed By: Dawn Ewan

CO Calibration



October 5, 2006

Calibration Report

Parameter THC
 Air Monitoring Network PASZA

**Station Information**

Calibration Date	October 26, 2006	Previous Calibration	September 8, 2006
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:10	End Time (MST)	12:34
Barometric Pressure	0.919 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2977
Cal Gas Concentration	700 ppm CH4/ 299 ppm C3H8	Cal Gas Expiry Date	12/10/2005
Cal Gas CH4 equiv	1522.25 ppm	Cal Gas Cylinder #	ALM 030358
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
Calculated slope	1.001002	Calculated slope	0.997997
Calculated intercept	0.025849	Calculated intercept	0.169557
Analyzer make	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
THC sample pressure	6.1	psi	6.1	psi
THC span counts	6874	capture	6874	capture
THC zero counts	1268	capture	1268	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	-0.06	N/A
4992	64.92	19.54	19.49	1.0027
4992	34.95	10.58	10.30	1.0272
4993	9.92	3.02	2.79	1.0806
4992	0.00	0.00	-0.06	As Found Zero
4992	64.92	19.54	19.49	As Found Span
Average Correction Factor				1.0368

Calculated value of As Found Response: 19.591 ppm Percent Change of As Found: -0.2%

	before calibration		after calibration	
Auto zero	-0.02	ppm	0.13	ppm
Auto span	21.89	ppm	22.08	ppm

Notes: No adjustments made.

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter THC
 Air Monitoring Network PASZA

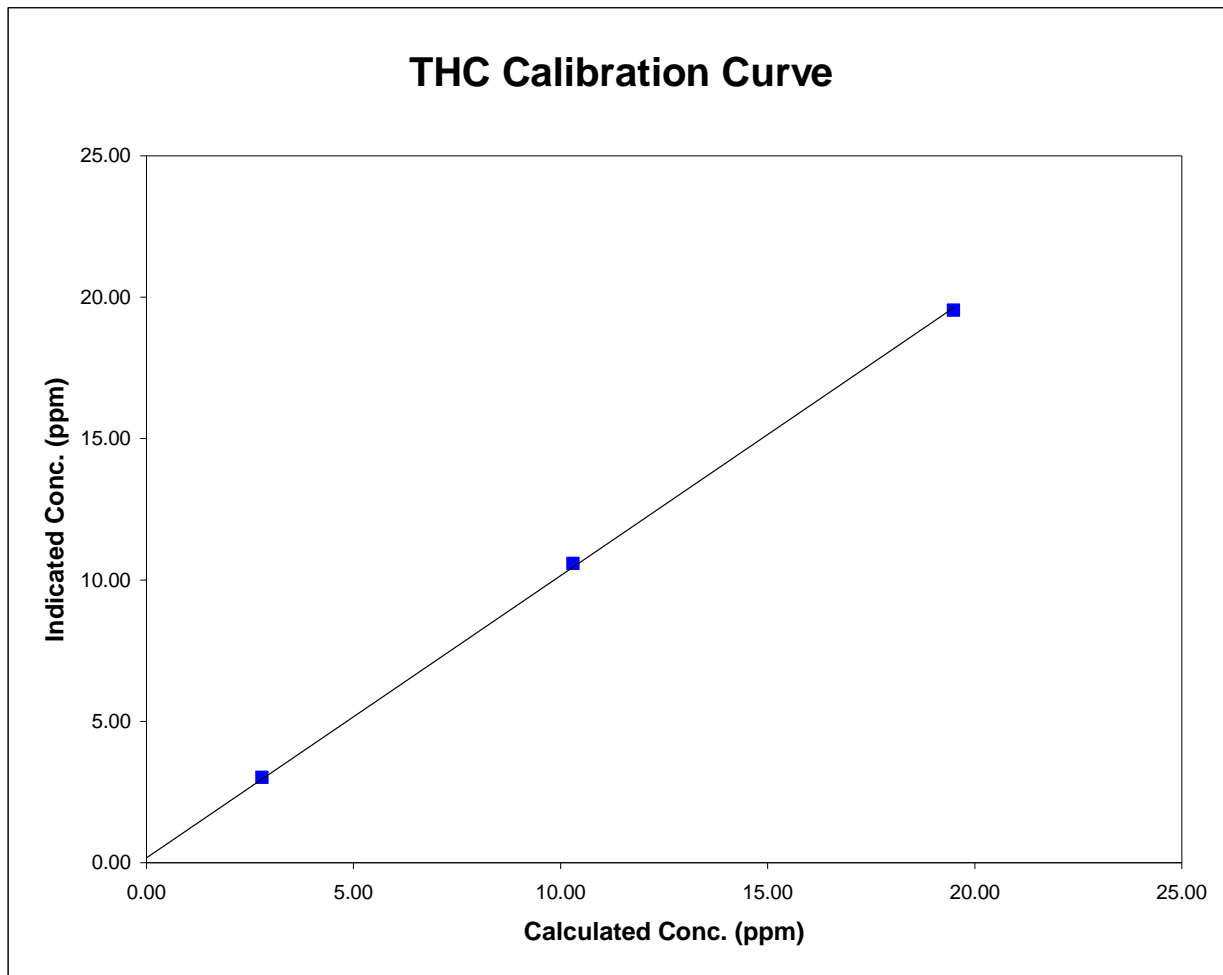


Station Information

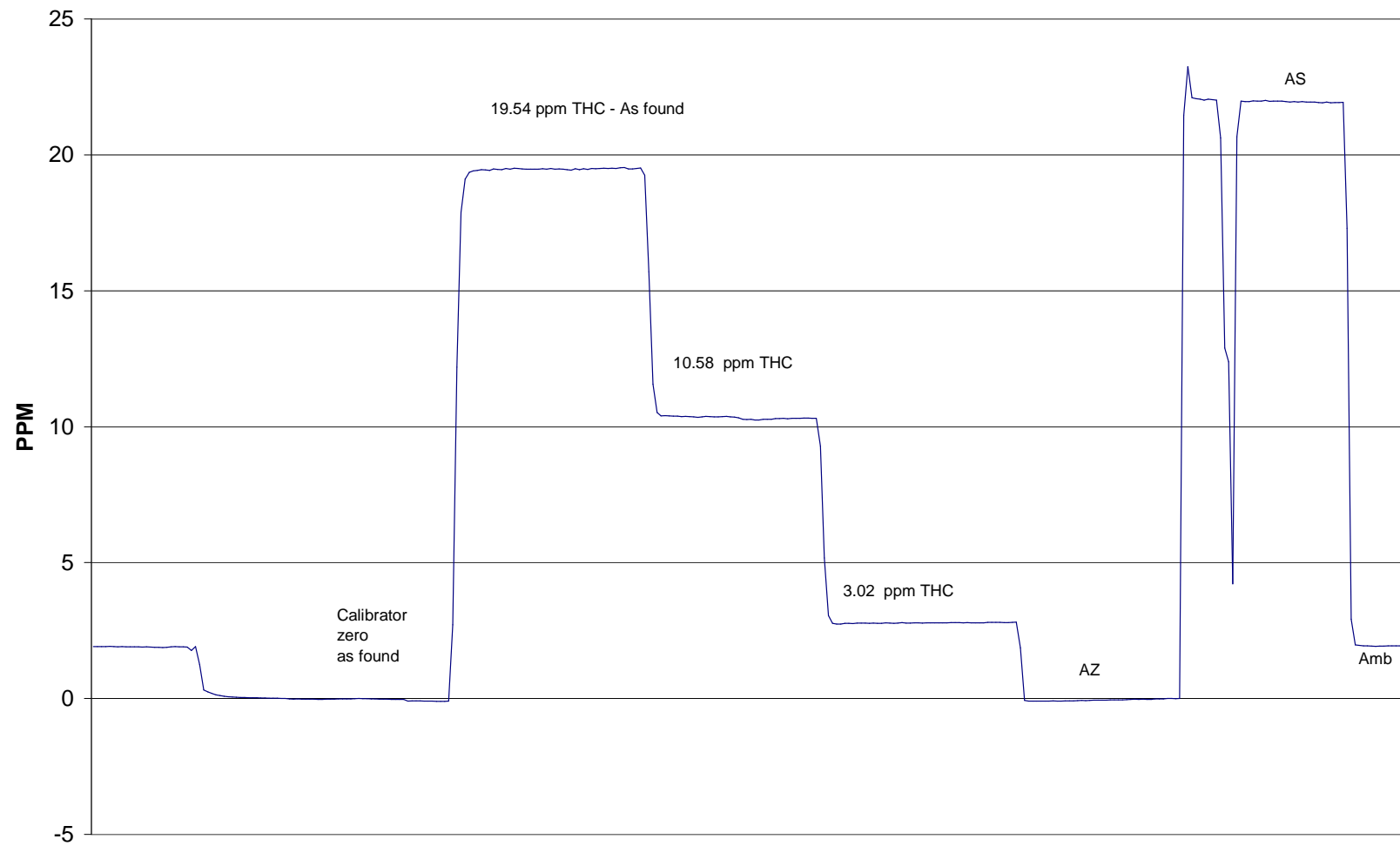
Calibration Date	October 26, 2006	Previous Calibration	September 8, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	10:10	End Time (MST)	12:34
Analyzer make/model	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.056	N/A		
19.542	19.490	1.0027	Correlation Coefficient	0.999824
10.583	10.303	1.0272		
3.018	2.793	1.0806	Slope	0.997997
			Intercept	0.169557

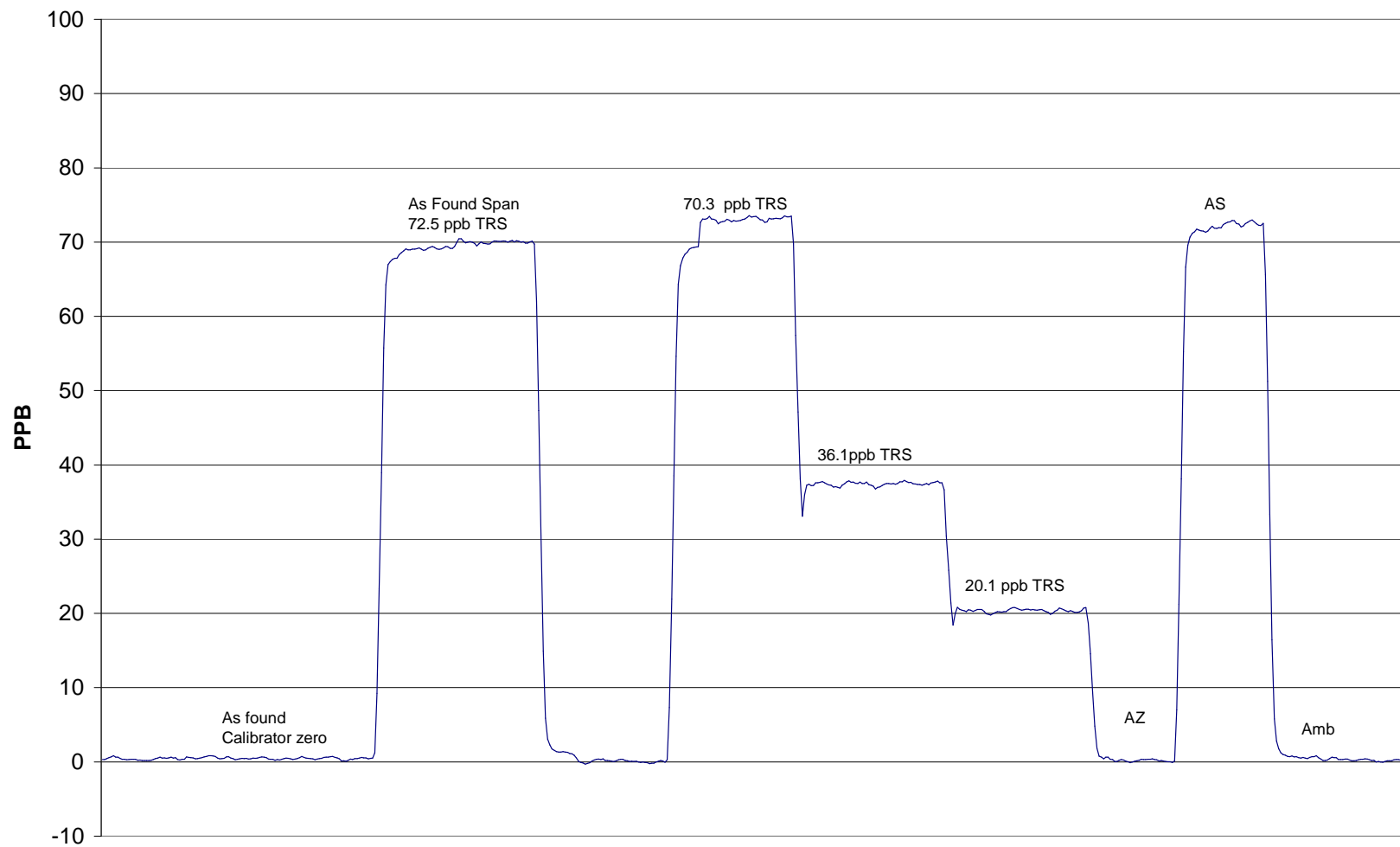


THC Calibration



October 26, 2006

TRS Calibration



October 5, 2006

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

Calibration Date	<u>October 26, 2006</u>	Previous Calibration	<u>September 12, 2006</u>
Station Number	<u>1</u>	Station Location	<u>Muskoseepi Park</u>
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	<u>12:00</u>	End Time (MST)	<u>13:00</u>
Barometric Pressure	<u>0.919</u> ATM	Station Temperature	<u>20.0</u> Deg C
Flow Calibrator	<u>BIOS Drycal DCL-MH</u>	Serial Number	<u>101780</u>
DACS make	<u>AP 1000</u>	DACS serial No.	<u>45269</u>
DACS voltage range	<u>0 - 1 V</u>	DACS channel #	<u>15</u>

Analyzer Information

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

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.68	SLPM
Filter Load	32	%	16	%
Ko Factor	13020		13020	
Temperature	7.40	Deg C	7.40	Deg C
Pressure	0.919	ATM	0.919	ATM

Calibration Data

Parameter	Set Point	As Found	Tolerance	TEOM Reading
zero flow - main	0.0	0.01		0.01
zero flow - auxillary	0.0	0.04		0.04
flow recovery - main	45 - 60 Seconds	26.00	45 - 60 Seconds	26.00
flow recovery - aux	46 - 60 Seconds	52.00	46 - 60 Seconds	52.00
Temperature	measured	7.6	+/- 1.0 Deg C	7.6
Pressure	measured	0.919	+/- 1.5% ΔATM	0.919
Total Flow	16.67 SLPM	16.60		16.60
Main Flow	13.67 SLPM	13.70	+/- 1.0 SLPM	13.70
Auxillary Flow	3.0 SLPM	3.080	+/- 0.2 SLPM	3.080
Leak Check - main	0.0	0.06	<0.15 SLPM	0.06
Leak Check - aux	0.0	0.03	<0.15 SLPM	0.03
Ko Factor (w/o filter)	measured		filter weight (g)	0.11423
Ko Factor (w/ filter)	measured		% Ko difference	N/A

Notes: Cleaned head.
New mass filter.

Calibration Performed By: Dawn Ewan

Calibration Report



Parameter SO₂
 Air Monitoring Network PASZA

Station Information

Calibration Date	October 17, 2006	Previous Calibration	September 5, 2006
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:36	End Time (MST)	14:15
Barometric Pressure	27.8 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	0.943300	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	0.992755	Calculated slope	1.025246
Calculated intercept	-0.225346	Calculated intercept	-2.072921
Analyzer make	TECO	Analyzer serial #	43A-25573-221

	before		after	
Concentration range	1000	ppb	1000	ppb
Sample Flow	475	ccm	475	ccm
Lamp Voltage	788	mv	801	mv
Vacuum	22	" Hg	22	" Hg
Span Pot	535		535	
Zero Pot	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	2358.3	0.0	0.0	N/A
2500	2358.3	315.0	307.6	1.0239
5700	5376.8	138.1	140.1	0.9862
8500	8018.1	92.6	92.7	0.9992
zero	2358.3	0.0	1.2	As Found Zero
2500	2358.3	315.0	334.0	As Found Span
Average Correction Factor				1.0031

Calculated value of As Found Response: 330.130 ppm Percent Change of As Found: -4.8%

	before calibration		after calibration	
Auto zero	-0.4	ppm	-0.3	ppm
Auto span	143.0	ppm	144.5	ppm

Notes: _____

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter SO2
Air Monitoring Network PASZA

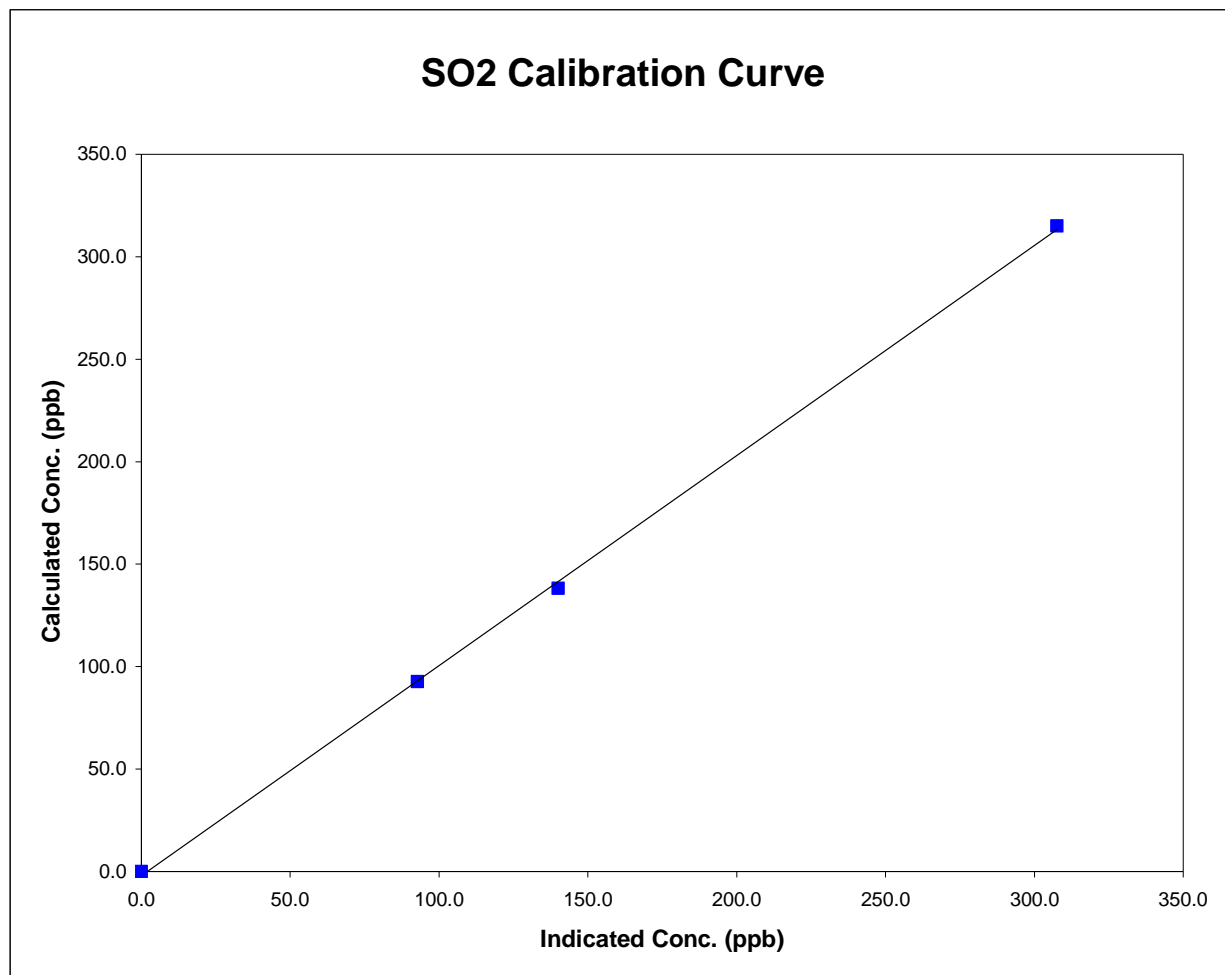


Station Information

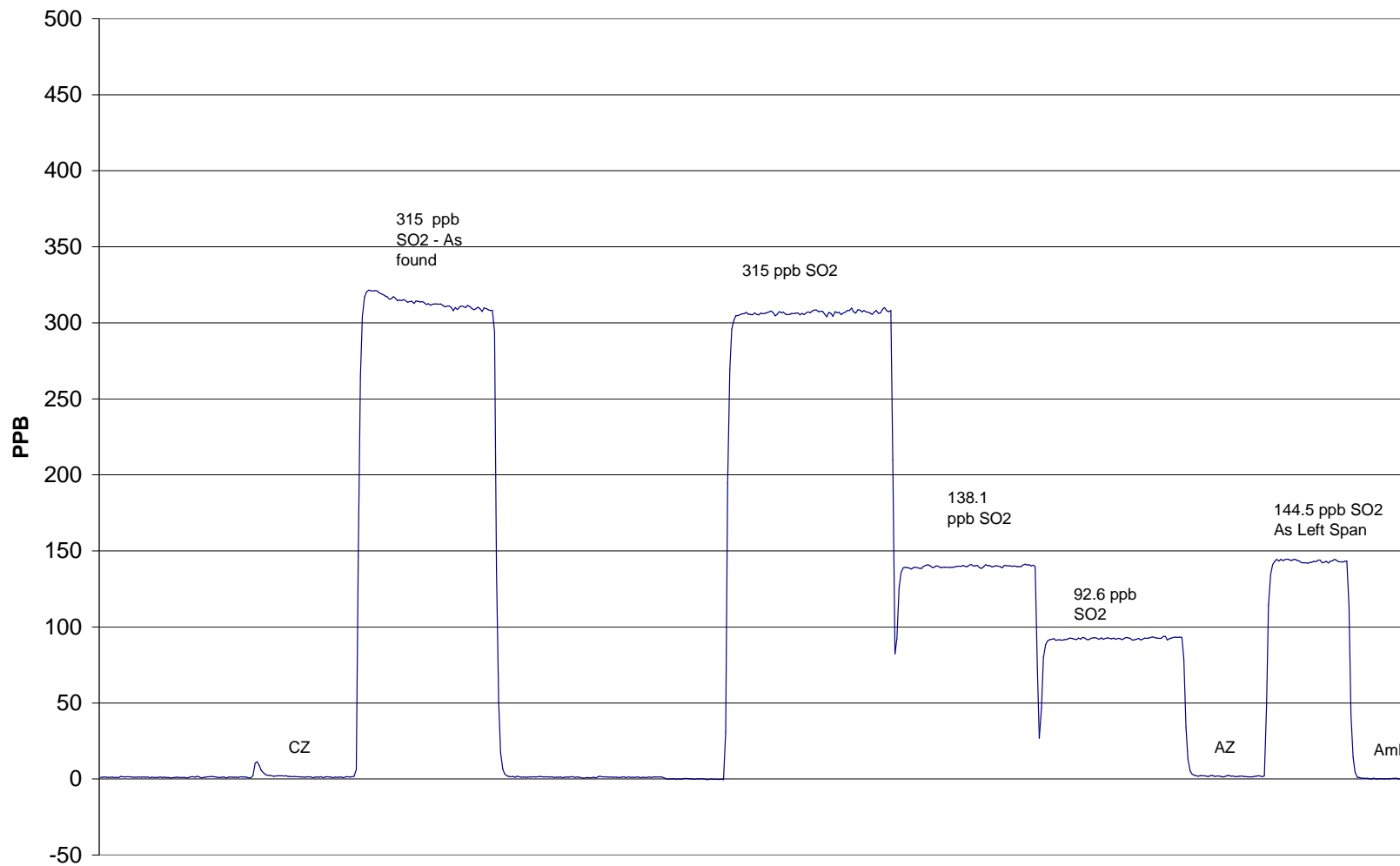
Calibration Date	October 17, 2006	Previous Calibration	September 5, 2006
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	9:36	End Time (MST)	14:15
Analyzer make/model	TECO	Analyzer serial #	43A-25573-221

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
315.0	307.6	1.0239	Correlation Coefficient	0.999641
138.1	140.1	0.9862		
92.6	92.7	0.9992	Slope	1.025246
			Intercept	-2.072921



SO2 Calibration



October 17, 2006

Calibration Report

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



Station Information

Calibration Date	October 17, 2006	Previous Calibration	September 5, 2006
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
		<input type="checkbox"/> Other:	
Start Time (MST)	9:36	End Time (MST)	14:05
Barometric Pressure	27.75 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	0.943300	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	0.998536	Calculated slope	0.997828
Calculated intercept	-0.004617	Calculated intercept	0.219891
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	100	ppb	100	ppb
Background	15.6	ppb	17.3	ppb
coefficient	0.934		1.033	
Lamp Voltage	816	volts	819	volts
Chamber Temp	44.1	Deg C	44.2	Deg C
Perm Gas Temp	45	Deg C	44.99	Deg C
Pressure	643.2	mm Hg	639.4	mm Hg
Sample Flow	473	ccm	471	ccm
Lamp Intensity	49,500	mv	49,000	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	2358.3	0.0	0.0	N/A
2500	2358.3	71.6	71.6	1.0010
5700	5376.8	31.4	31.7	0.9915
8500	8018.1	21.1	20.3	1.0393
zero	2358.3	0.0	0.0	As Found Zero
2500	2358.3	71.6	65.0	As Found Span
Average Correction Factor				1.0106

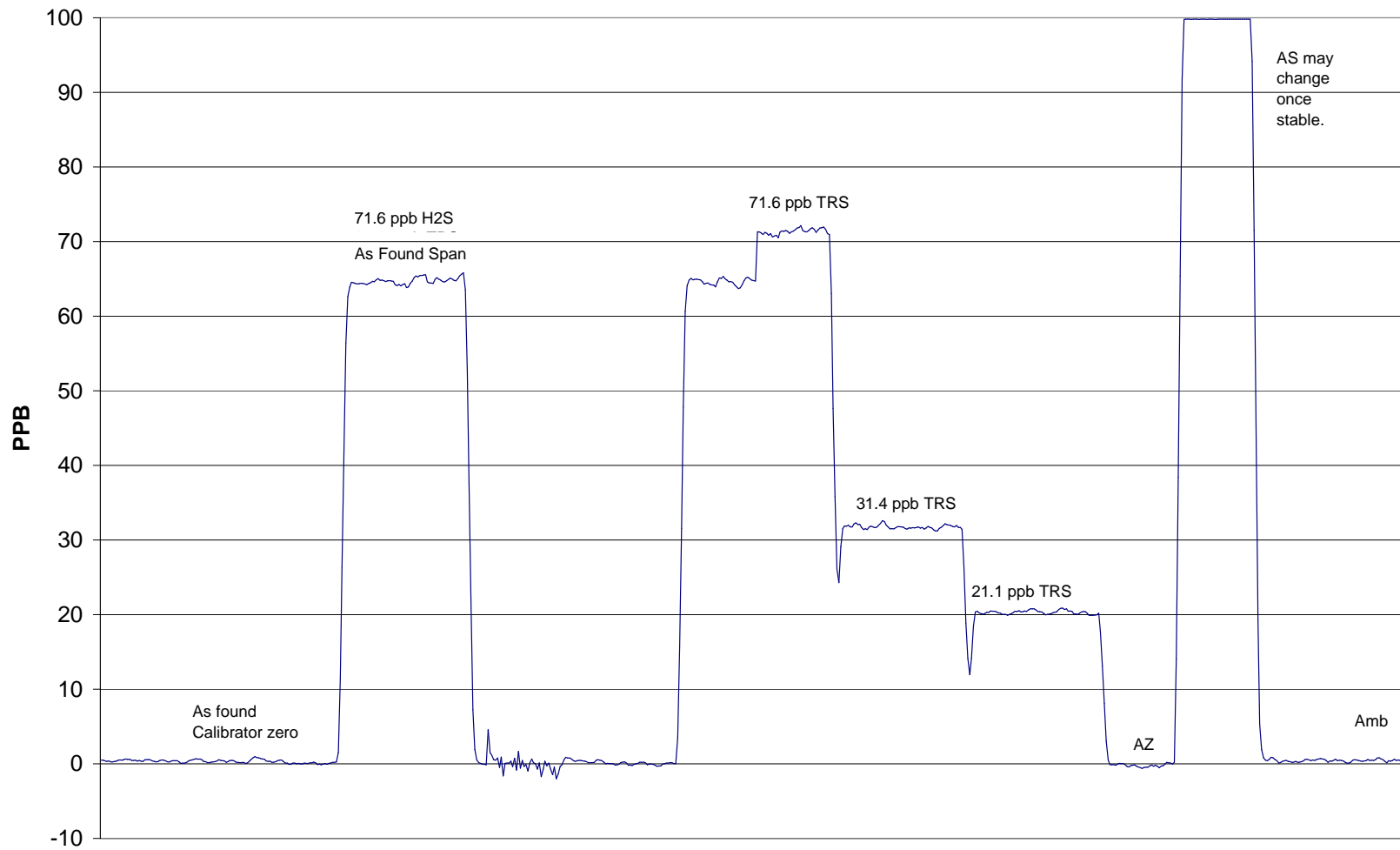
Calculated value of As Found Response: 64.83 ppm Percent Change of As Found: 9.5%

	before calibration		after calibration	
Auto zero	-1.4	ppm	0.0	ppm
Auto span	54.2	ppm	99.8	ppm

Notes: Replaced span oven assembly.

Calibration Performed By: Dawn Ewan

TRS Calibration



October 17, 2006

Calibration Report

Parameter SO₂Air Monitoring Network PASZA

Station Information

Calibration Date	<u>October 3, 2006</u>	Previous Calibration	<u>September 19, 2006</u>
Station Number	<u>3</u>	Station Location	<u>Smoky Heights</u>
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
		<input type="checkbox"/> Other:	<u>Baseline shift.</u>
Start Time (MST)	<u>16:00</u>	End Time (MST)	<u>19:08</u>
Barometric Pressure	<u>27.77</u> inches Hg	Station Temperature	<u>20.0</u> Deg C
Calibrator	<u>VICI Metronics</u>	Serial Number	<u>111-1695</u>
Perm-tube Conc	<u>1,946</u> ng/min	Perm-tube Expiry Date	<u>8/6/2006</u>
Correction factor	<u>0.943980</u>	Perm-tube Cert #	<u>19-25218</u>
DACS make	<u>Focus AP1000</u>	DACS serial No.	<u>45274</u>
DACS voltage range	<u>0 - 10 volt</u>	DACS channel #	<u>4</u>
	<u>Before</u>		<u>After</u>
Calculated slope	<u>0.999691</u>	Calculated slope	<u>0.975616</u>
Calculated intercept	<u>0.138074</u>	Calculated intercept	<u>0.538811</u>
Analyzer make	<u>API 102A</u>	Analyzer serial #	<u>212</u>

	before		after	
Concentration range	<u>500</u>	<u>ppb</u>	<u>500</u>	<u>ppb</u>
Sample Flow	<u>569</u>	<u>ccm</u>	<u>569</u>	<u>ccm</u>
UV Lamp Voltage	<u>3459</u>	<u>mv</u>	<u>1600</u>	<u>mv</u>
Lamp Ratio	<u>100.5</u>	<u>%</u>	<u>100</u>	<u>%</u>
Rx Cell Temp	<u>51.4</u>	<u>Deg C</u>	<u>51.4</u>	<u>Deg C</u>
PMT Temp	<u>6.9</u>	<u>Deg C</u>	<u>6.9</u>	<u>Deg C</u>
IZS Temp	<u>45</u>	<u>Deg C</u>	<u>45</u>	<u>Deg C</u>
Slope	<u>0.854</u>		<u>2.214</u>	
Intercept	<u>27</u>		<u>14.9</u>	

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)
<u>zero</u>	<u>2407.1</u>	<u>0.0</u>	<u>-0.6</u>	<u>N/A</u>
<u>2550</u>	<u>2407.1</u>	<u>308.6</u>	<u>315.7</u>	<u>0.9773</u>
<u>zero</u>	<u>2360.0</u>	<u>0.0</u>	<u>11.7</u>	<u>As Found Zero</u>
<u>2500</u>	<u>2360.0</u>	<u>314.7</u>	<u>451.0</u>	<u>As Found Span</u>
Average Correction Factor				0.9773

Calculated value of As Found Response: 439.248 ppm Percent Change of As Found: -39.6%

	before calibration		after calibration	
Auto zero	<u>1.2</u>	<u>ppm</u>	<u>0.2</u>	<u>ppm</u>
Auto span	<u>229.7</u>	<u>ppm</u>	<u>219.8</u>	<u>ppm</u>

Notes: Repeaked lamp. Recalibrated lamp. Adjusted lamp voltage.
Full calibration completed on October 23.

Calibration Performed By: Dawn Ewan

Calibration Summary

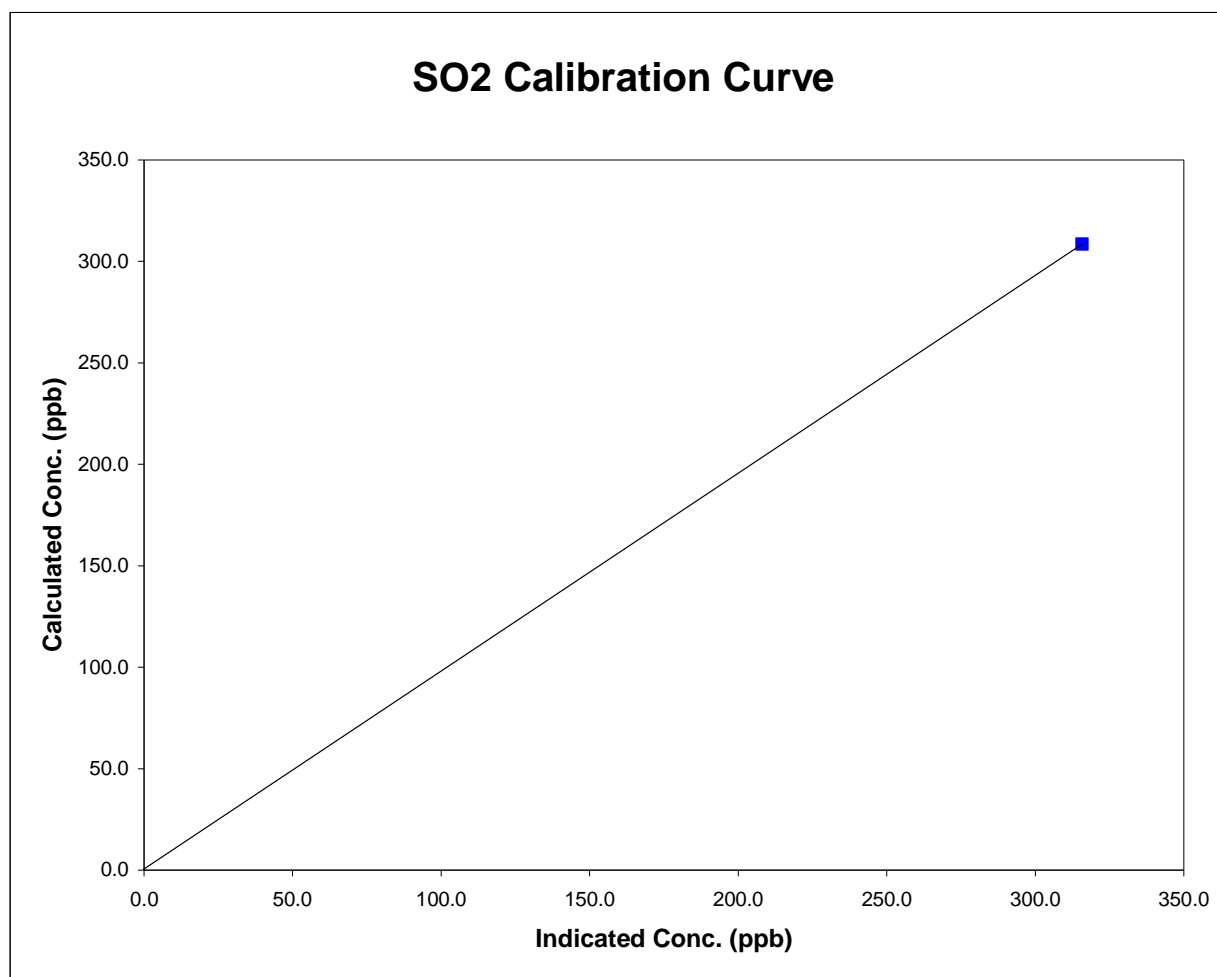
Parameter SO2
 Air Monitoring Network PASZA

**Station Information**

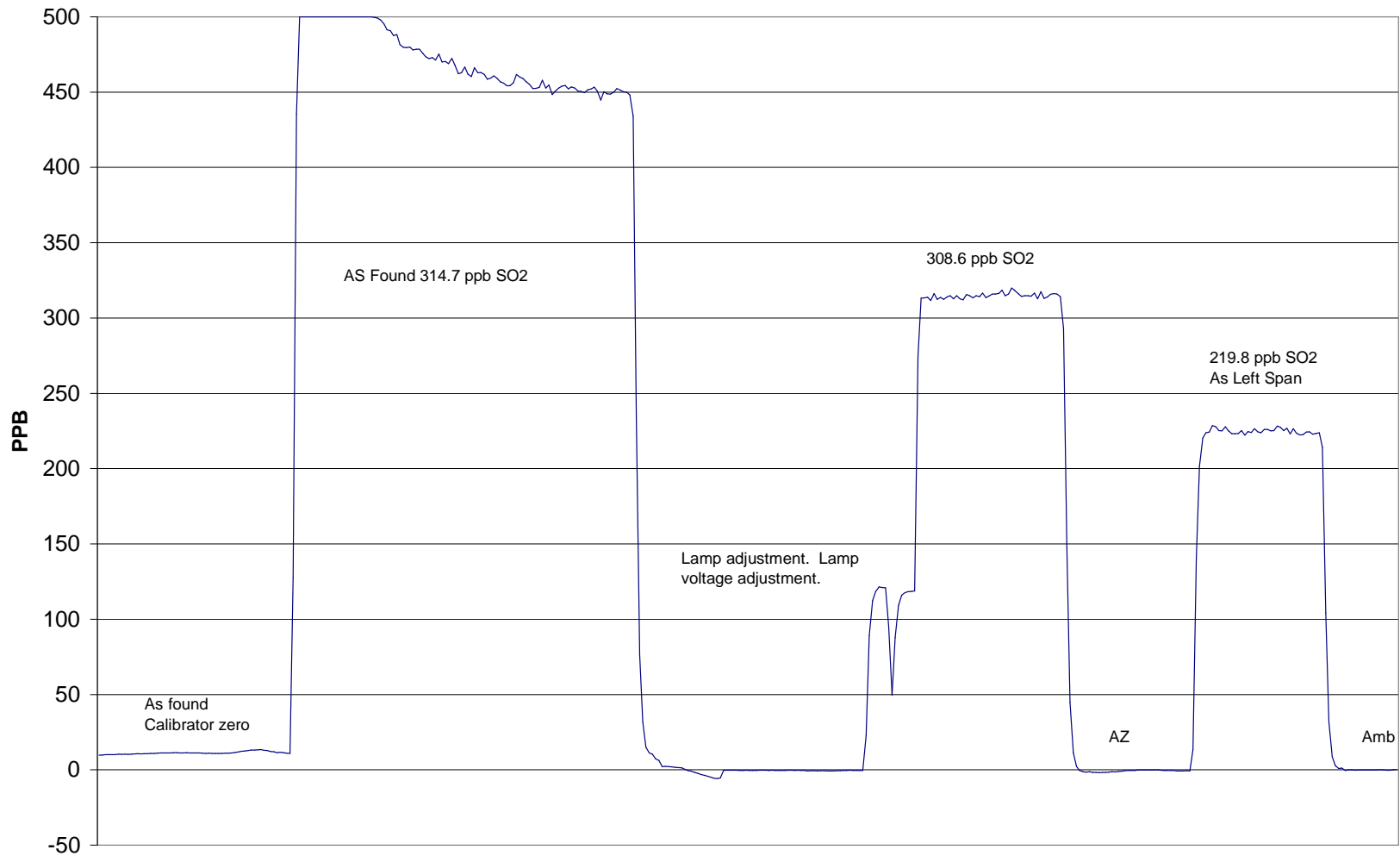
Calibration Date	<u> October 3, 2006 </u>	Previous Calibration	<u> September 19, 2006 </u>
Station Number	<u> 3 </u>	Station Location	<u> Smoky Heights </u>
Start Time (MST)	<u> 16:00 </u>	End Time (MST)	<u> 19:08 </u>
Analyzer make/model	<u> API 102A </u>	Analyzer serial #	<u> 212 </u>

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.6	N/A		
308.6	315.7	0.9773	Correlation Coefficient	1.000000
			Slope	0.975616
			Intercept	0.538811



SO2 Calibration



Calibration Report

Parameter SO₂Air Monitoring Network PASZA

Station Information

Calibration Date	<u>October 23, 2006</u>	Previous Calibration	<u>September 19, 2006</u>
Station Number	<u>3</u>	Station Location	<u>Smoky Heights</u>
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
		<input type="checkbox"/> Other:	
Start Time (MST)	<u>10:13</u>	End Time (MST)	<u>14:14</u>
Barometric Pressure	<u>27.56</u> inches Hg	Station Temperature	<u>20.0</u> Deg C
Calibrator	<u>VICI Metronics</u>	Serial Number	<u>111-1695</u>
Perm-tube Conc	<u>1,946</u> ng/min	Perm-tube Expiry Date	<u>8/6/2006</u>
Correction factor	<u>0.936842</u>	Perm-tube Cert #	<u>19-25218</u>
DACS make	<u>Focus AP1000</u>	DACS serial No.	<u>45274</u>
DACS voltage range	<u>0 - 10 volt</u>	DACS channel #	<u>4</u>
	<u>Before</u>		<u>After</u>
Calculated slope	<u>0.999691</u>	Calculated slope	<u>0.995292</u>
Calculated intercept	<u>0.138074</u>	Calculated intercept	<u>3.277126</u>
Analyzer make	<u>API 102A</u>	Analyzer serial #	<u>212</u>

	before		after	
Concentration range	<u>500</u>	<u>ppb</u>	<u>500</u>	<u>ppb</u>
Sample Flow	<u>569</u>	<u>ccm</u>	<u>569</u>	<u>ccm</u>
UV Lamp Voltage	<u>5000</u>	<u>mv</u>	<u>3459</u>	<u>mv</u>
Lamp Ratio		<u>%</u>	<u>100.5</u>	<u>%</u>
Rx Cell Temp	<u>51.4</u>	<u>Deg C</u>	<u>51.4</u>	<u>Deg C</u>
PMT Temp	<u>6.9</u>	<u>Deg C</u>	<u>6.9</u>	<u>Deg C</u>
IZS Temp	<u>45</u>	<u>Deg C</u>	<u>45</u>	<u>Deg C</u>
Slope	<u>2.214</u>		<u>0.854</u>	
Intercept	<u>14.9</u>		<u>27</u>	

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	2342.1	0.0	-0.7	N/A
2500	2342.1	317.1	316.9	1.0007
4975	4660.8	159.4	154.6	1.0310
9500	8900.0	83.5	78.7	1.0610
zero	2342.1	0.0	-9.5	As Found Zero
2500	2342.1	317.1	154.3	As Found Span
Average Correction Factor				1.0309

Calculated value of As Found Response: 163.915 ppm Percent Change of As Found: 48.3%

	before calibration		after calibration	
Auto zero	<u>-1.0</u>	<u>ppm</u>	<u>3.0</u>	<u>ppm</u>
Auto span	<u>226.2</u>	<u>ppm</u>	<u>243.3</u>	<u>ppm</u>

Notes: Repeaked lamp. Recalibrated lamp. Adjusted high point.

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter SO2
Air Monitoring Network PASZA

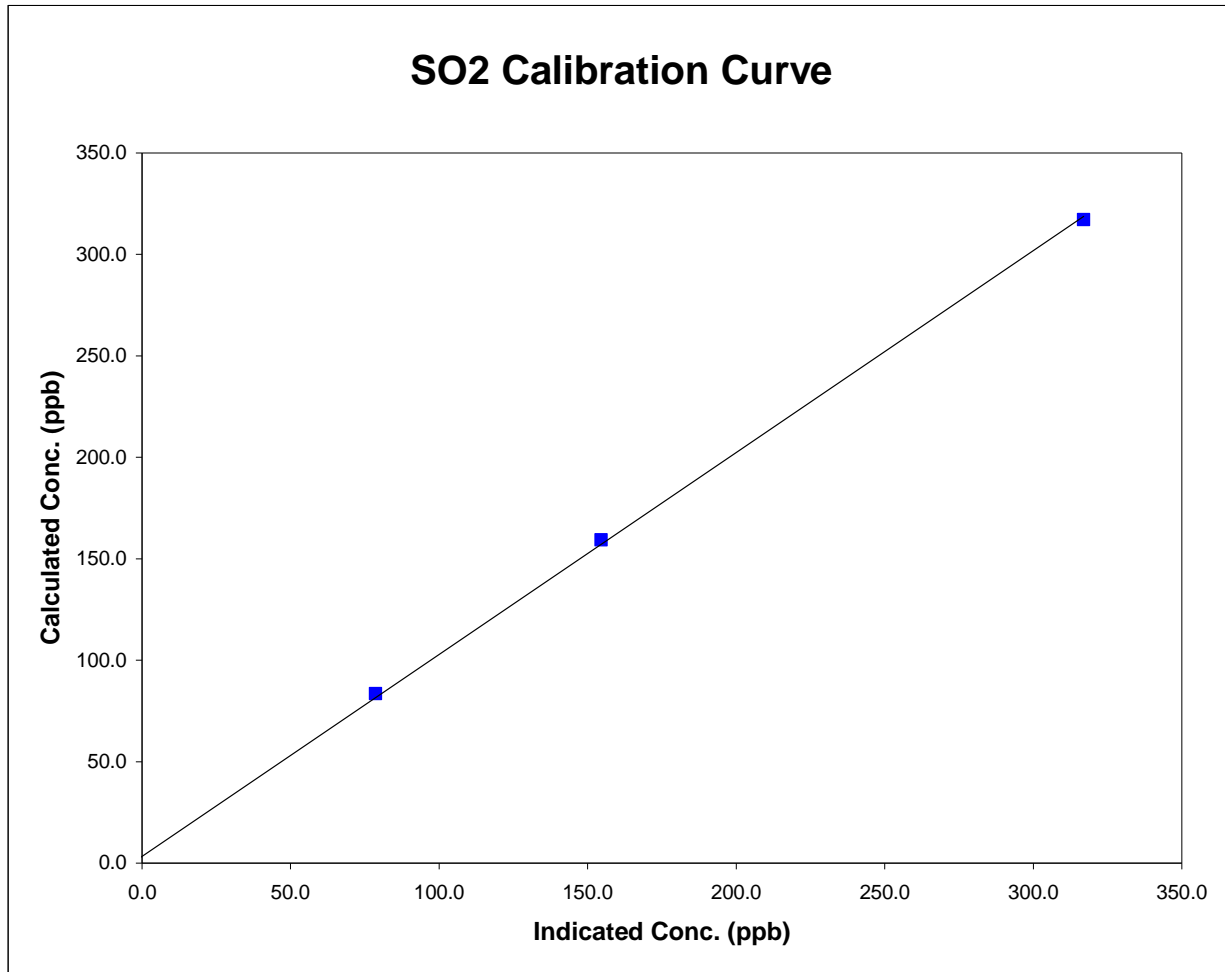


Station Information

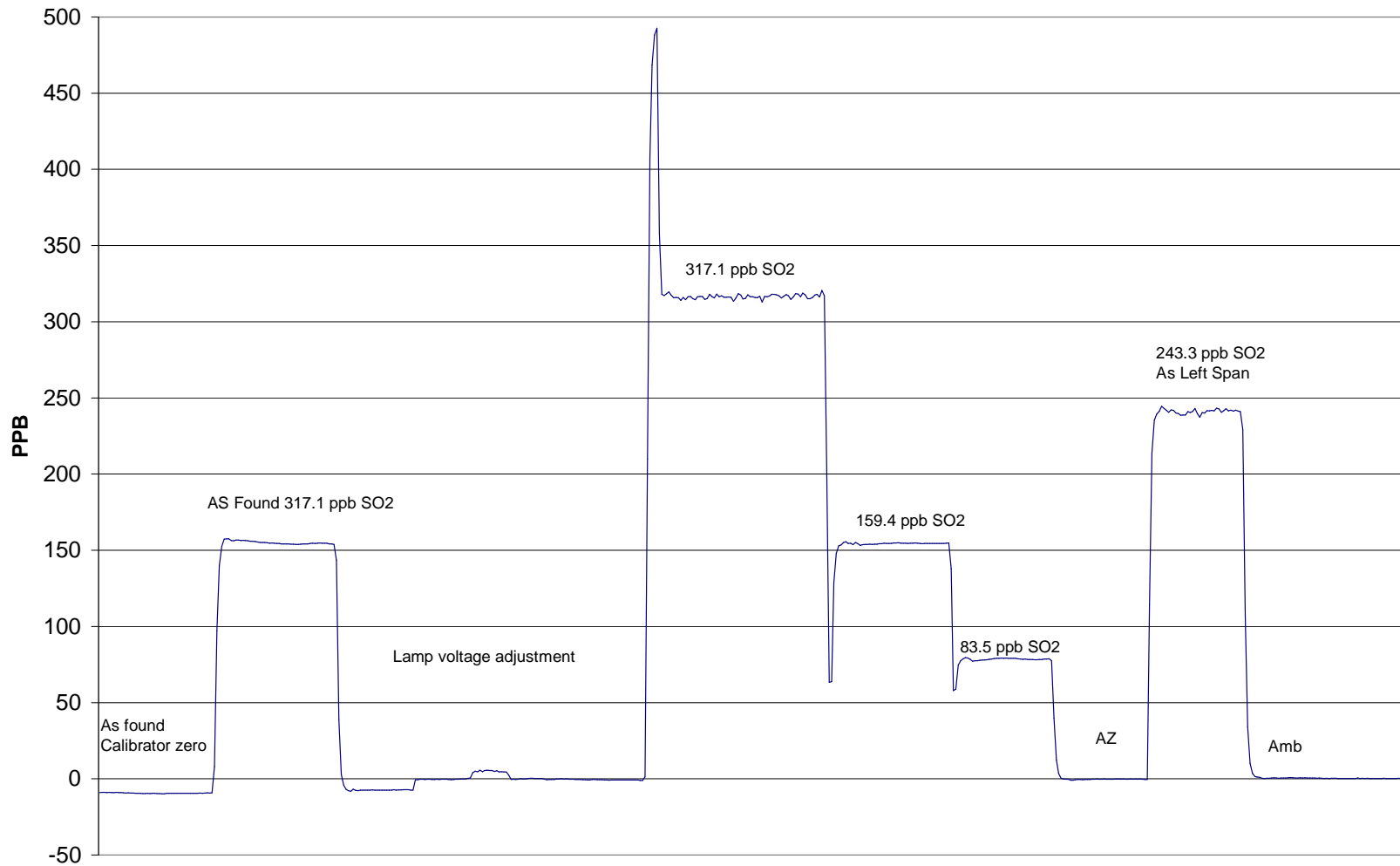
Calibration Date	October 23, 2006	Previous Calibration	September 19, 2006
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	10:13	End Time (MST)	14:14
Analyzer make/model	API 102A	Analyzer serial #	212

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.7	N/A		
317.1	316.9	1.0007	Correlation Coefficient	0.999676
159.4	154.6	1.0310		
83.5	78.7	1.0610	Slope	0.995292
			Intercept	3.277126



SO2 Calibration



October 23, 2006

Calibration Summary



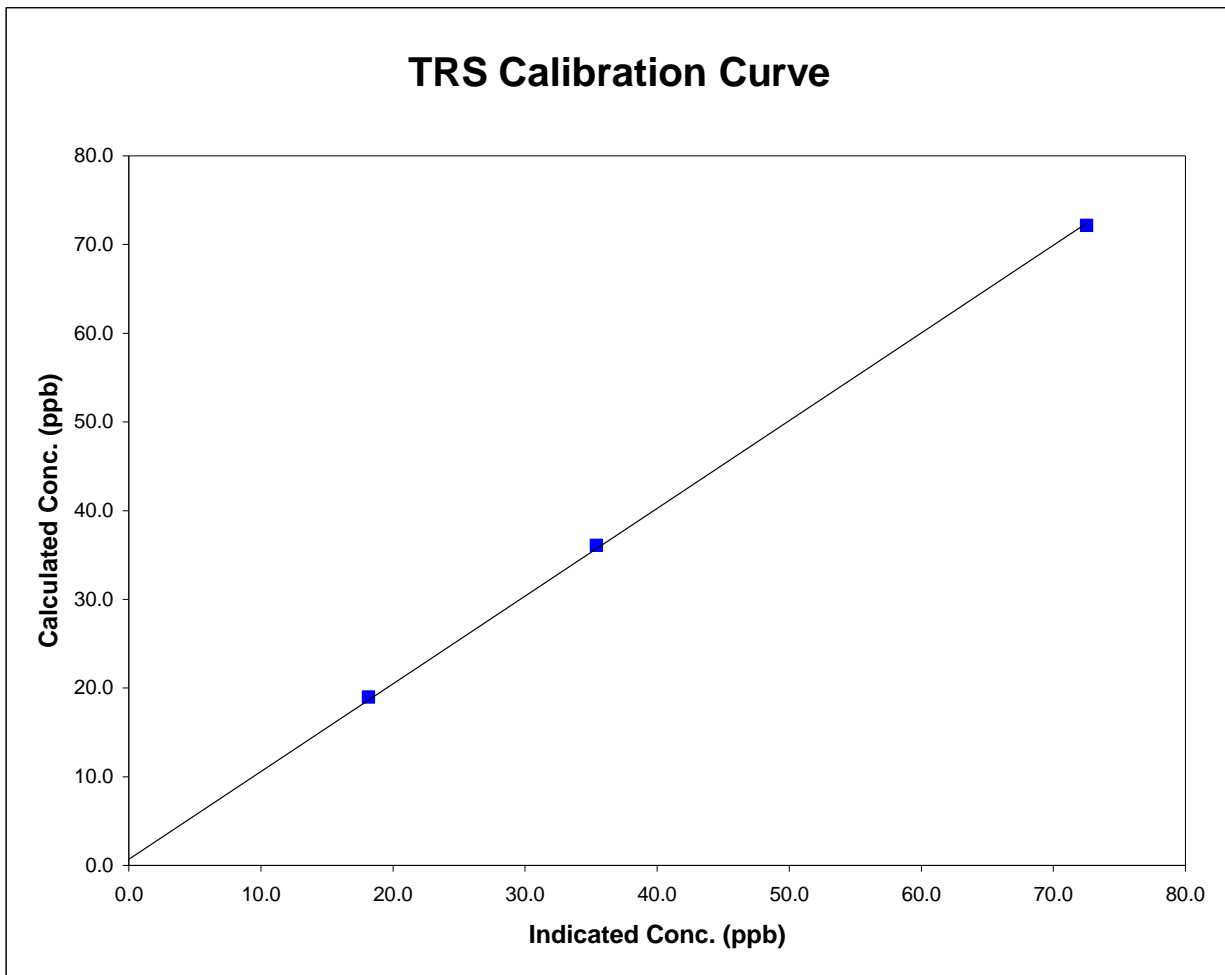
Parameter
 Air Monitoring Network

Station Information

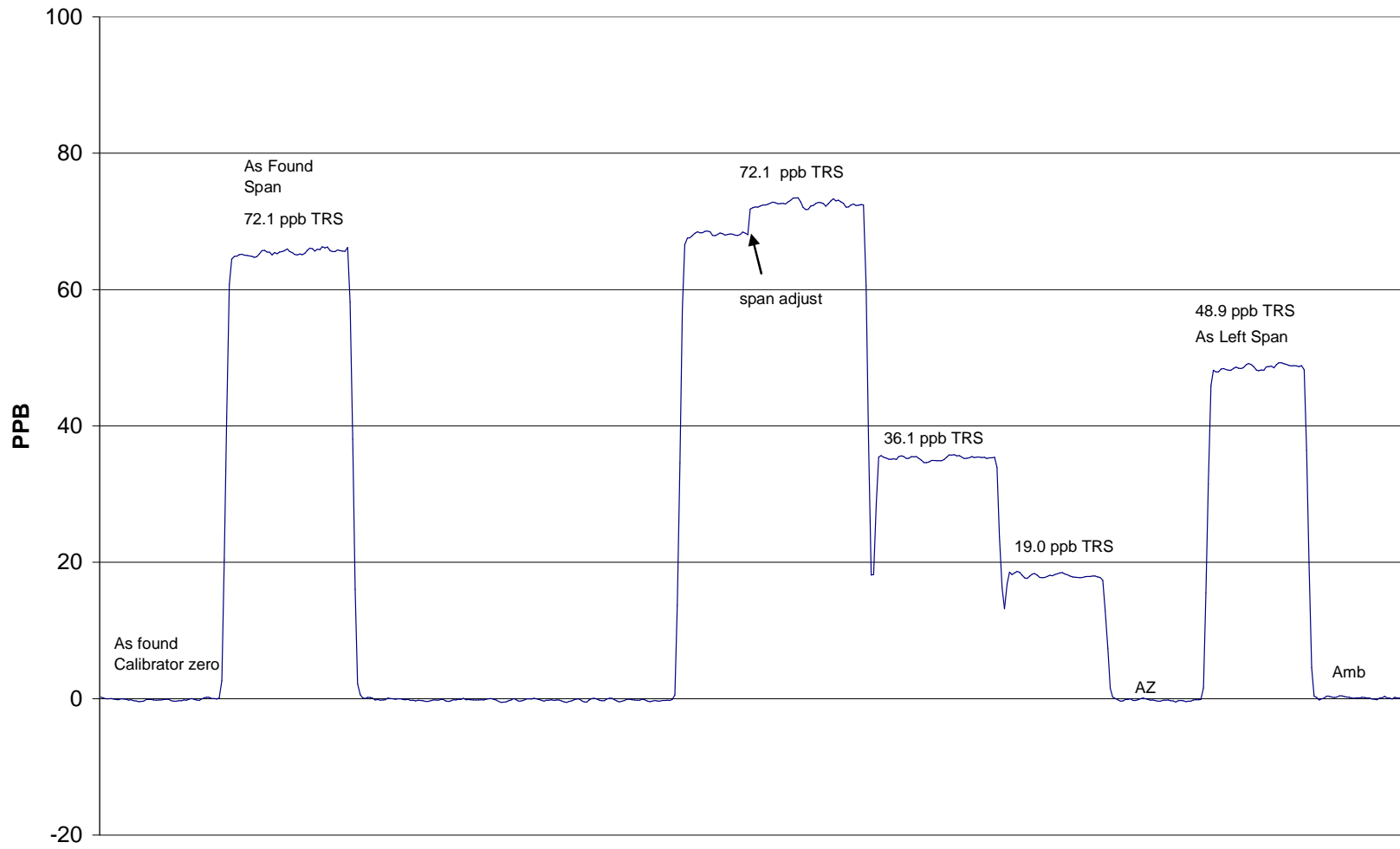
Calibration Date	<u> </u> <u> </u> <u> </u>	Previous Calibration	<u> </u> <u> </u> <u> </u>
Station Number	<u> </u>	Station Location	<u> </u> <u> </u>
Start Time (MST)	<u> </u> <u> </u>	End Time (MST)	<u> </u> <u> </u>
Analyzer make/model	<u> </u> <u> </u>	Analyzer serial #	<u> </u> <u> </u>

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.2	N/A		
72.1	72.5	0.9948	Correlation Coefficient	0.999806
36.1	35.4	1.0188		
19.0	18.1	1.0464		
			Slope	0.989227
			Intercept	0.678632



TRS Calibration



Calibration Report

Parameter PM2.5
 Air Monitoring Network PASZA

Station Information

Calibration Date	October 23, 2006	Previous Calibration	September 19, 2006
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)	11:45	End Time (MST)	14:00
Barometric Pressure	0.925 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

Analyzer Information

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

	before		after	
Main Flow Set Point	2.990	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	32	%	16	%
Ko Factor	12122		12122	
Temperature	10	Deg C	10	Deg C
Pressure	0.922	ATM	0.922	ATM
Main Fadj	1.000		1.000	
Aux Fadj	1.000		1.000	

Calibration Data

Parameter	Set Point	As Found	Tolerance	New Reading
zero flow - main	0.0	0.01		0.01
zero flow - auxillary	0.0	-0.03		-0.03
flow recovery - main	45 - 60 Seconds	30	45 - 60 Seconds	30
flow recovery - aux	46 - 60 Seconds	40	46 - 60 Seconds	40
Temperature	measured	10.1	+/- 1.0 Deg C	10.1
Pressure	measured	0.922	+/- 1.5% ΔATM	0.922
Total Flow	16.67 SLPM	16.30		16.30
Main Flow	13.67 SLPM	13.50	+/- 1.0 SLPM	13.50
Auxillary Flow	3.0 SLPM	3.022	+/- 0.2 SLPM	3.022
Leak Check - main	0.0	0.01	<0.15 SLPM	0.01
Leak Check - aux	0.0	-0.03	<0.15 SLPM	-0.03
Ko Factor (w/o filter)	measured	324.881	filter weight (g)	0.11014
Ko Factor (w/ filter)	measured	232.285	% Ko difference	0.30

Notes: Cleaned head.
Installed new mass filter.

Calibration Performed By: Dawn Ewan

Calibration Report

Parameter SO₂Air Monitoring Network PASZA

Station Information

Calibration Date	October 16, 2006	Previous Calibration	September 18, 2006
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	14:25	End Time (MST)	17:25
Barometric Pressure	0.919 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2488
Cal Gas Make	Scott	Cal Gas Expiry Date	December 12, 2005
Cal Gas Conc.	10.3 ppm	Cal Gas Cylinder #	BLM002816
DACS make	Focus AP1000	DACS serial No.	45267
DACS voltage range	0 - 10 volt	DACS channel #	3
	<u>Before</u>		<u>After</u>
Calculated slope	0.996355	Calculated slope	1.000741
Calculated intercept	0.116911	Calculated intercept	0.469201
Analyzer make	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	2.4	ppb	2.38	ppb
Coefficient	0.868		0.868	
Lamp Voltage	903.0	Volts	906.0	Volts
Chamber Temp	43.6	Deg C	43.8	Deg C
Sample Flow	619	ccm	619	ccm

Calibration Data

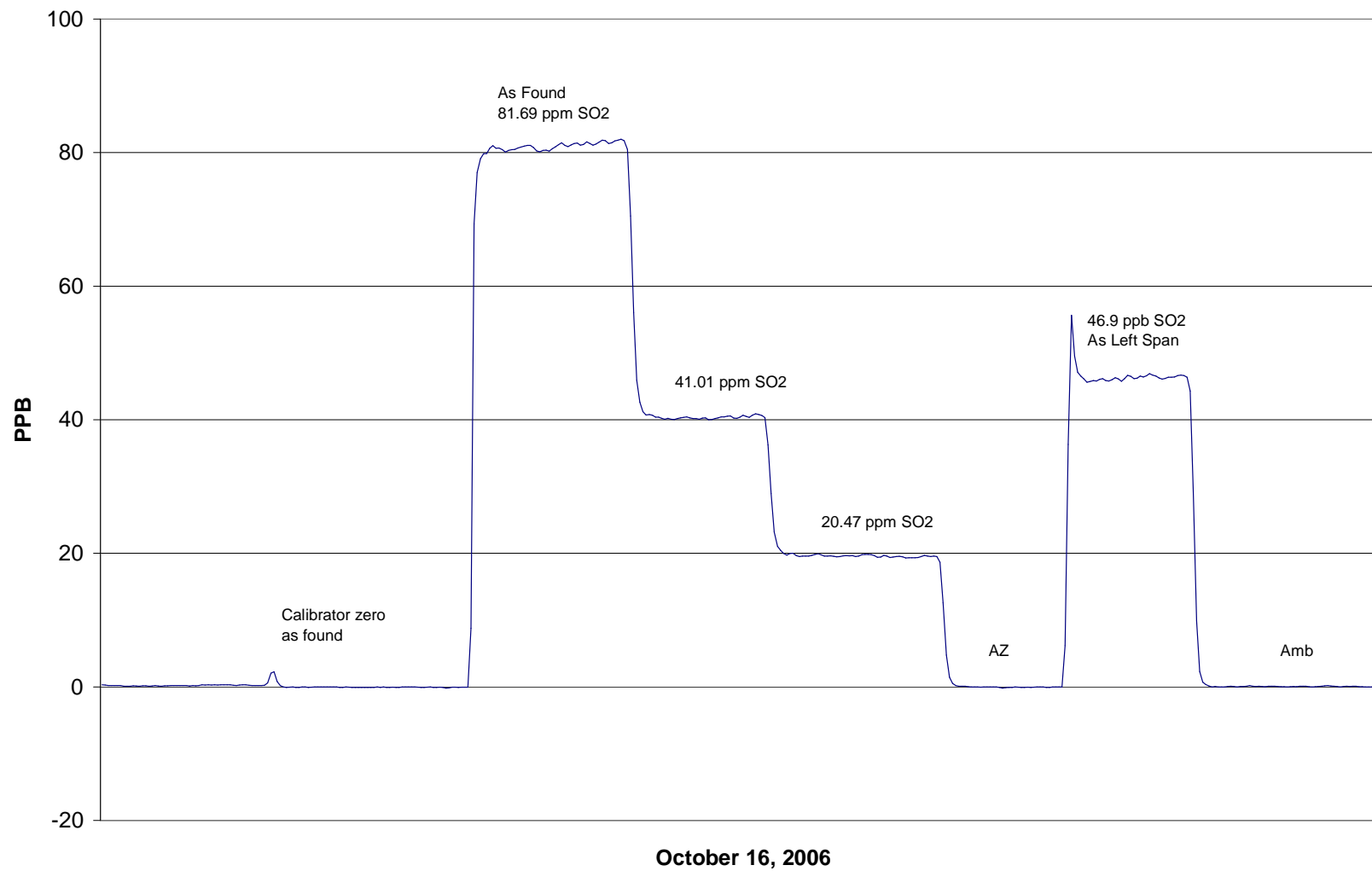
Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4996	0.00	0.00	-0.06	N/A
4996	39.94	81.69	81.34	1.0044
4996	19.97	41.01	40.37	1.0158
4996	9.95	20.47	19.55	1.0474
4996	0.00	0.00	-0.06	As Found Zero
4996	39.94	81.69	81.34	As Found Span
Average Correction Factor				1.0225

Calculated value of As Found Response: 81.219 ppm Percent Change of As Found: 0.6%

	before calibration		after calibration	
Auto zero	0.0	ppm	0.4	ppm
Auto span	28.7	ppm	46.9	ppm

Notes: _____

Calibration Performed By: Dawn Ewan

SO₂ Calibration

Calibration Report

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

**Station Information**

Calibration Date	<u>October 16, 2006</u>	Previous Calibration	<u>September 14, 2006</u>
Station Number	<u>4</u>	Station Location	<u>Beaverlodge</u>

Reason: Routine Installation Removal Other: _____

Start Time (MST)	<u>10:05</u>	End Time (MST)	<u>15:22</u>
Barometric Pressure	<u>0.919</u> Atm	Station Temperature	<u>20.0</u> Deg C
Calibrator	<u>EnviroNics 6103</u>	Serial Number	<u>2488</u>
NO Cal Gas Conc	<u>50.3</u> ppm	Cal Gas Expiry Date	<u>Nov 22/06</u>
NOx Cal Gas Conc	<u>50.5</u> ppm	Cal Gas Serial #	<u>BAL786</u>

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	Data Slope	1.023964	1.003319	1.002750
	Data Offset	-0.005318	0.384815	-2.729670
After	Data Slope	1.007267	1.001916	1.002111
	Data Offset	-1.162457	2.404885	3.100921
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	1.5	ppb	1.3	mV
NO coefficient	1.042		1.062	
NOx coefficient	0.973		0.983	
Box Temp	35	ccm	34.8	ccm
Chamber Temp	49.2	Deg C	49.2	Deg C
Cooler Temp	-2.0	Deg C	-2.2	Deg C
Converter Temp	323.0	Deg C	323.0	Deg C
Sample Flow	821.0	LPM	787.0	LPM
Ozonator Flow	0.087	LPM	0.086	LPM
Pressure	168.3	inches HG	170.0	inches Hg

Notes: _____

Calibration Report

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



Station Information

Calibration Date: **October 16, 2006** Station Location: **Beaverlodge**

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	
zero	4996	0.00	0.0	0.0	0.0	-0.3	-0.3	-0.3	N/A	N/A	
1	4996	79.86	794.5	791.4	3.1	791.8	788.2	2.6	1.0035	1.0041	
2	4996	39.98	400.9	399.3	1.6	396.3	393.5	2.3	1.0117	1.0149	
3	4996	20.00	201.4	200.6	0.8	196.7	194.7	1.6	1.0235	1.0303	
AFZ	4996	0.00	0.0	0.0	0.0	-0.3	-0.3	-0.4	0.0000	0.0000	
AFS	4996	79.86	794.5	791.4	3.1	772.5	778.6	-6.9	1.0286	1.0165	
									Average Correction Factor	1.0129	1.0164

As Found Concentrations: **NO_x= 773.2** **NO= 776.1** As Found Percent Change **NO_x= -2.7%** **NO= -1.9%**

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

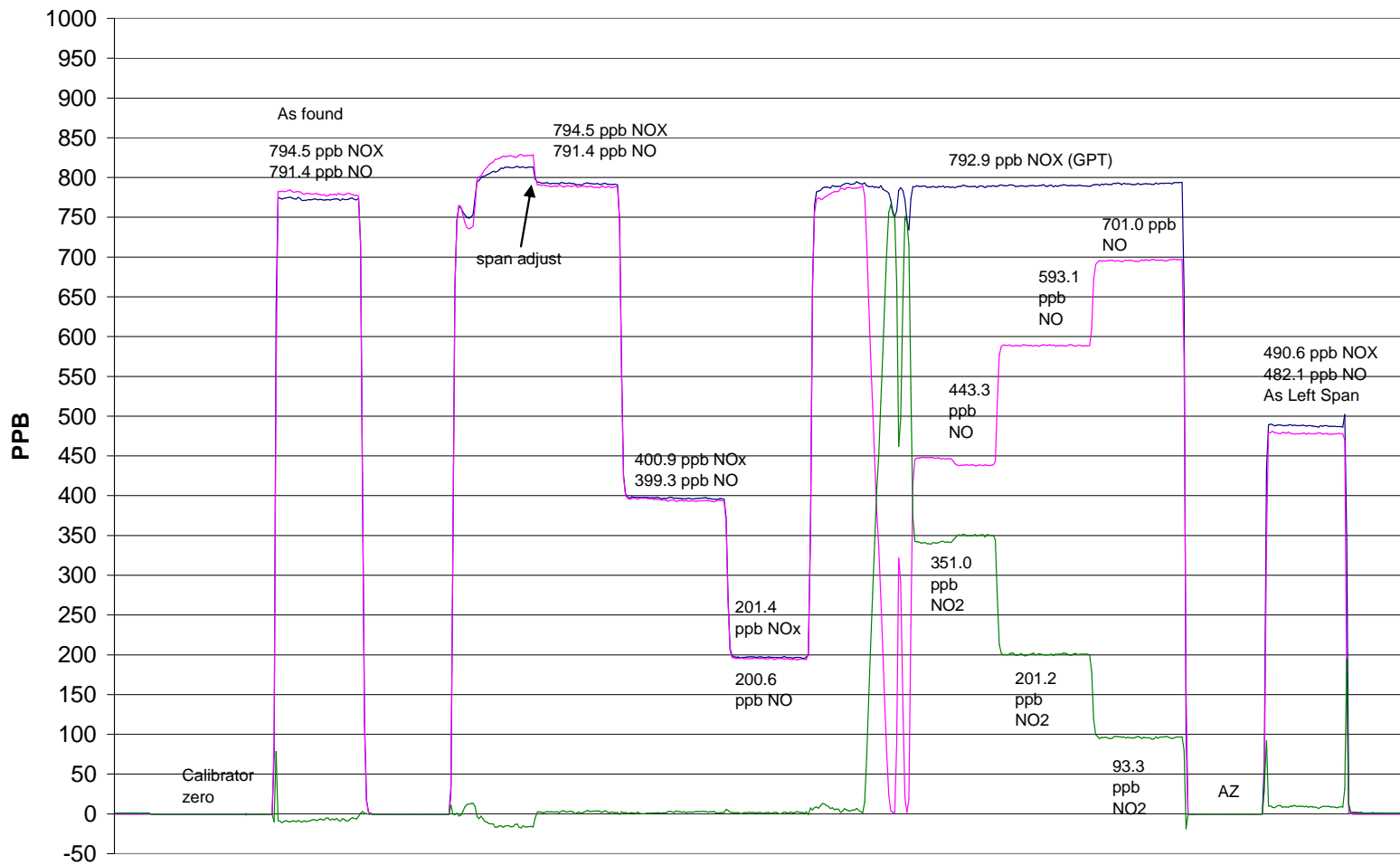
O3 Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency	
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A	
NO point	794.3	791.8	2.5	792.2	787.1	4.4	1.0026	1.0061	N/A	N/A	
350	794.3	443.3	351.0	788.7	439.2	349.2	1.0071	1.0092	1.0053	99.5%	
200	794.3	593.1	201.2	789.7	588.7	200.7	1.0058	1.0074	1.0027	99.7%	
100	794.3	701.0	93.3	792.7	696.4	96.0	1.0020	1.0066	0.9722	102.9%	
							Average Correction Factor	1.0050	1.0077	0.9934	100.7%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	0.1	-0.3	-3.1	ppb	2.2	-1.5	2.8	ppb
Auto span	494.5	-2.3	492.7	ppb	490.6	7.6	482.1	ppb

Calibration Performed By: Dawn Ewan

NOx Calibration



October 16, 2006

Calibration Summary

Parameter NO₂
 Air Monitoring Network PASZA

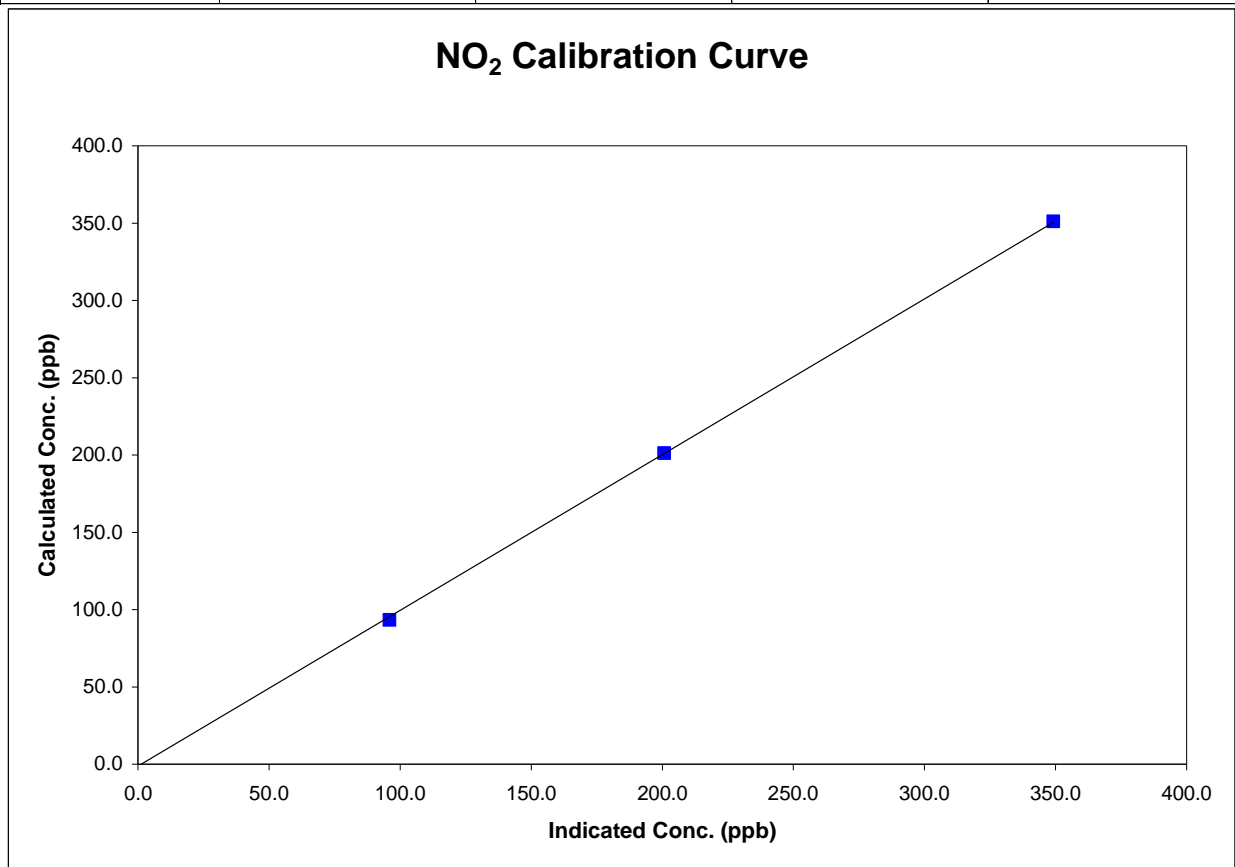


Station Information

Calibration Date	October 16, 2006	Previous Calibration	September 14, 2006
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	10:05	End Time (MST)	15:22
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	0.0000	Correlation Coefficient	0.999892
351.0	349.2	1.0053		
201.2	200.7	1.0027		
93.3	96.0	0.9722		
			Slope	1.007267
			Intercept	-1.162457



Calibration Summary

Parameter NO_x
 Air Monitoring Network PASZA

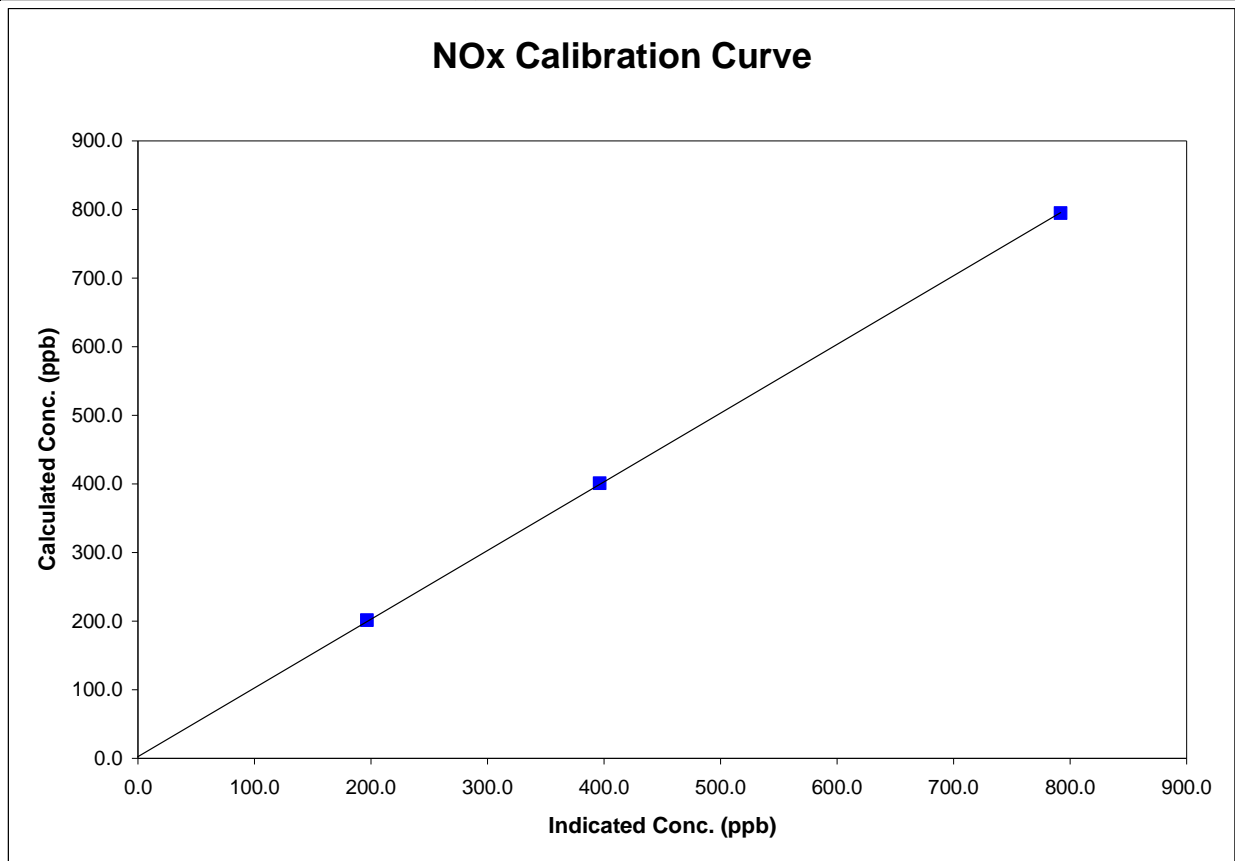


Station Information

Calibration Date	October 16, 2006	Previous Calibration	September 14, 2006
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	10:05	End Time (MST)	15:22
Analyzer make	TEI Model 42	Analyzer serial #	42-28486-231

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	0.0000	Correlation Coefficient	0.999967
794.5	791.8	1.0035		
400.9	396.3	1.0117	Slope	1.001916
201.4	196.7	1.0235		
			Intercept	2.404885



Calibration Summary

Parameter NO
 Air Monitoring Network PASZA

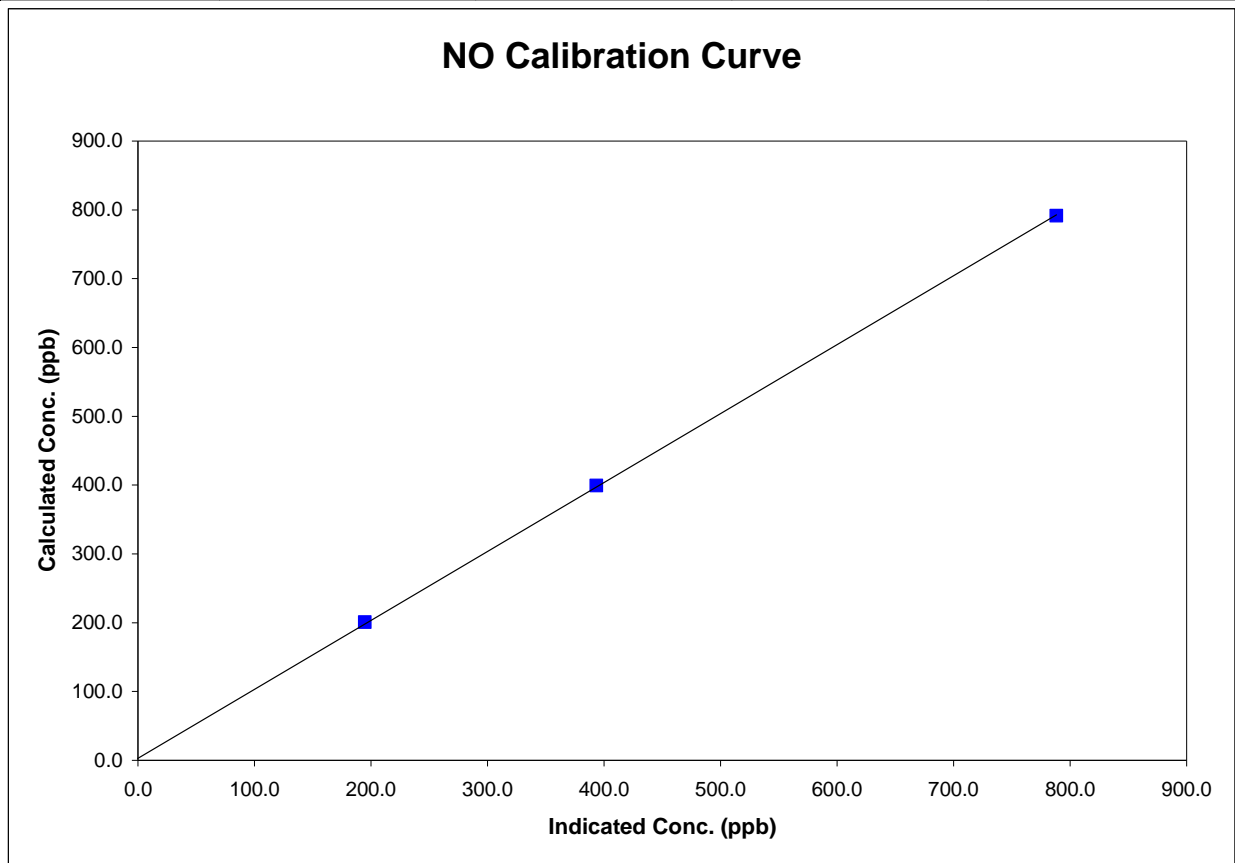


Station Information

Calibration Date	October 16, 2006	Previous Calibration	September 14, 2006
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	10:05	End Time (MST)	15:22
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	Correlation Coefficient	0.999943
791.4	788.2	1.0041		
399.3	393.5	1.0149		
200.6	194.7	1.0303		
			Slope	1.002111
			Intercept	3.100921



Calibration Summary

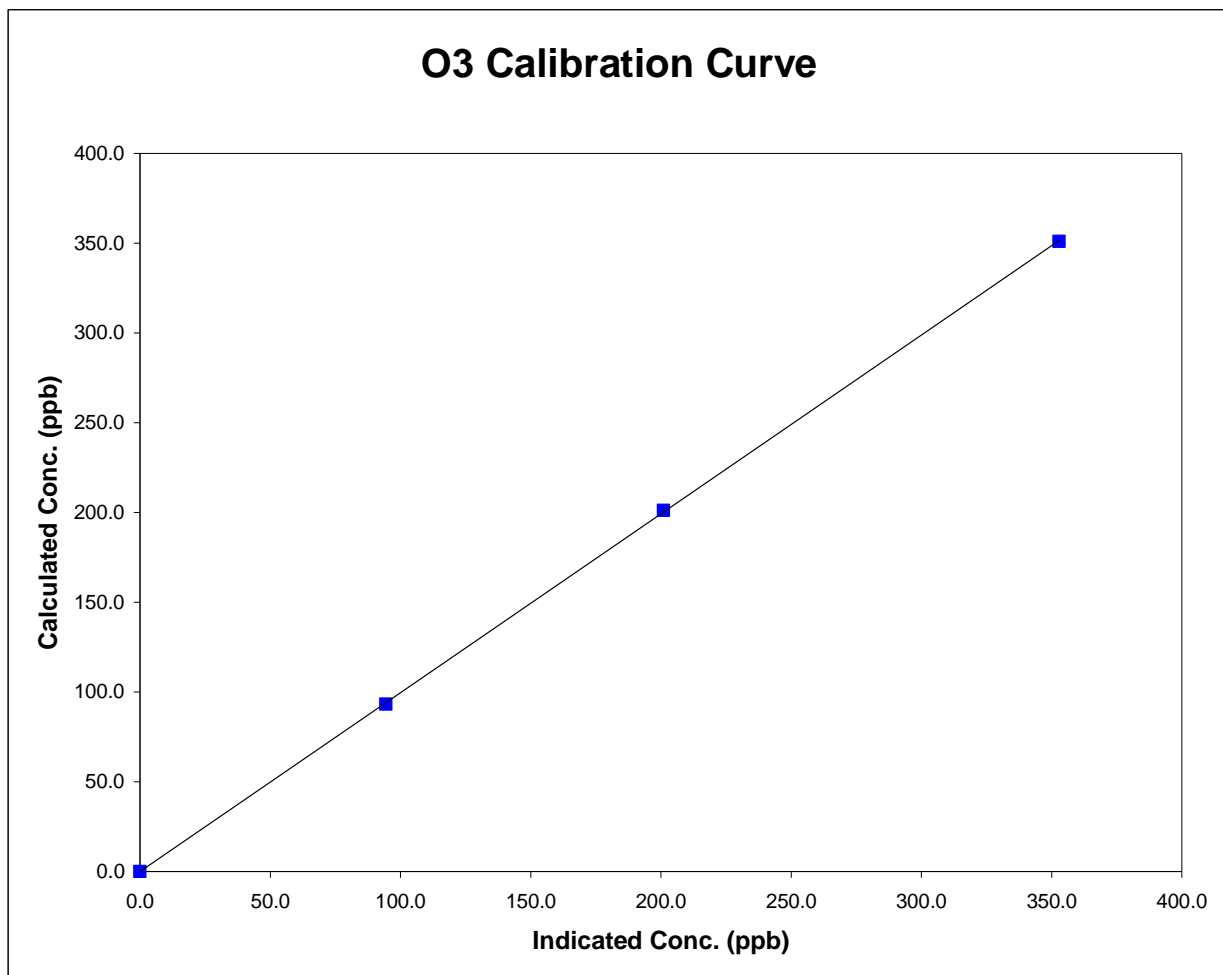
Parameter O3 Air Monitoring Network PASZA 

Station Information

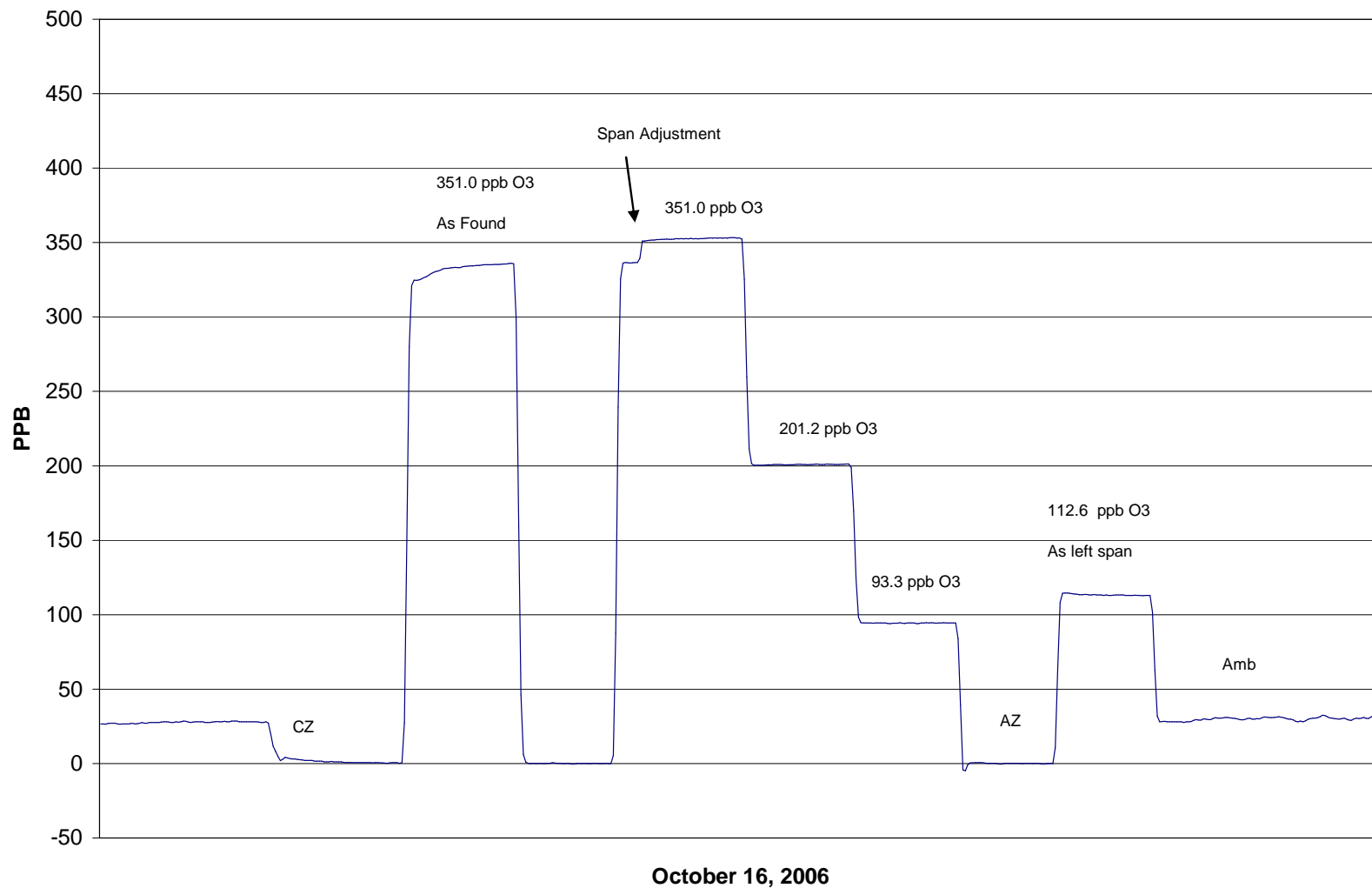
Calibration Date	October 16, 2006	Previous Calibration	September 18, 2006
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	16:13	End Time (MST)	20:03
Analyzer make/model	Teco 49C	Analyzer serial #	49C-76443-383

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	NA		
351.0	352.9	0.9947	Correlation Coefficient	0.999974
201.2	201.0	1.0009		
93.3	94.4	0.9879	Slope	0.996060
			Intercept	-0.076880



O3 Calibration



Calibration ReportParameter SO₂Air Monitoring Network PASZA**Station Information**

Calibration Date	October 3, 2006	Previous Calibration	September 20, 2006
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	12:00	End Time (MST)	15:20
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	0.936162	Perm-tube Cert #	19-25218
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 10 volt	DACS channel #	5
	<u>Before</u>		<u>After</u>
Calculated slope	1.000361	Calculated slope	1.036074
Calculated intercept	-1.297610	Calculated intercept	-3.126732
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	1.181		1.170	
UV Lamp voltage	771	V	771	V
Chamber Temperature	44.6	C	44.6	C
Perm gas Temp	45	C	45	C
Pressure	689.1	"Hg	689.6	"Hg
Sample Flow	496	LPM	495	LPM
Lamp Intensity	33600	Hz	33900	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	2340.4	0.0	-0.1	N/A
2500	2340.4	317.4	307.5	1.0321
5000	4680.8	158.7	157.3	1.0090
8000	7489.3	99.2	102.6	0.9669
zero	2340.4	0.0	-1.5	As Found Zero
2500	2340.4	317.4	302.2	As Found Span
Average Correction Factor				1.0027

Calculated value of As Found Response: 302.525 ppm Percent Change of As Found: 4.7%

	before calibration		after calibration	
Auto zero	-1.2	ppm	-3.0	ppm
Auto span	295.6	ppm	304.3	ppm

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

Calibration Summary

Parameter SO2
Air Monitoring Network PASZA

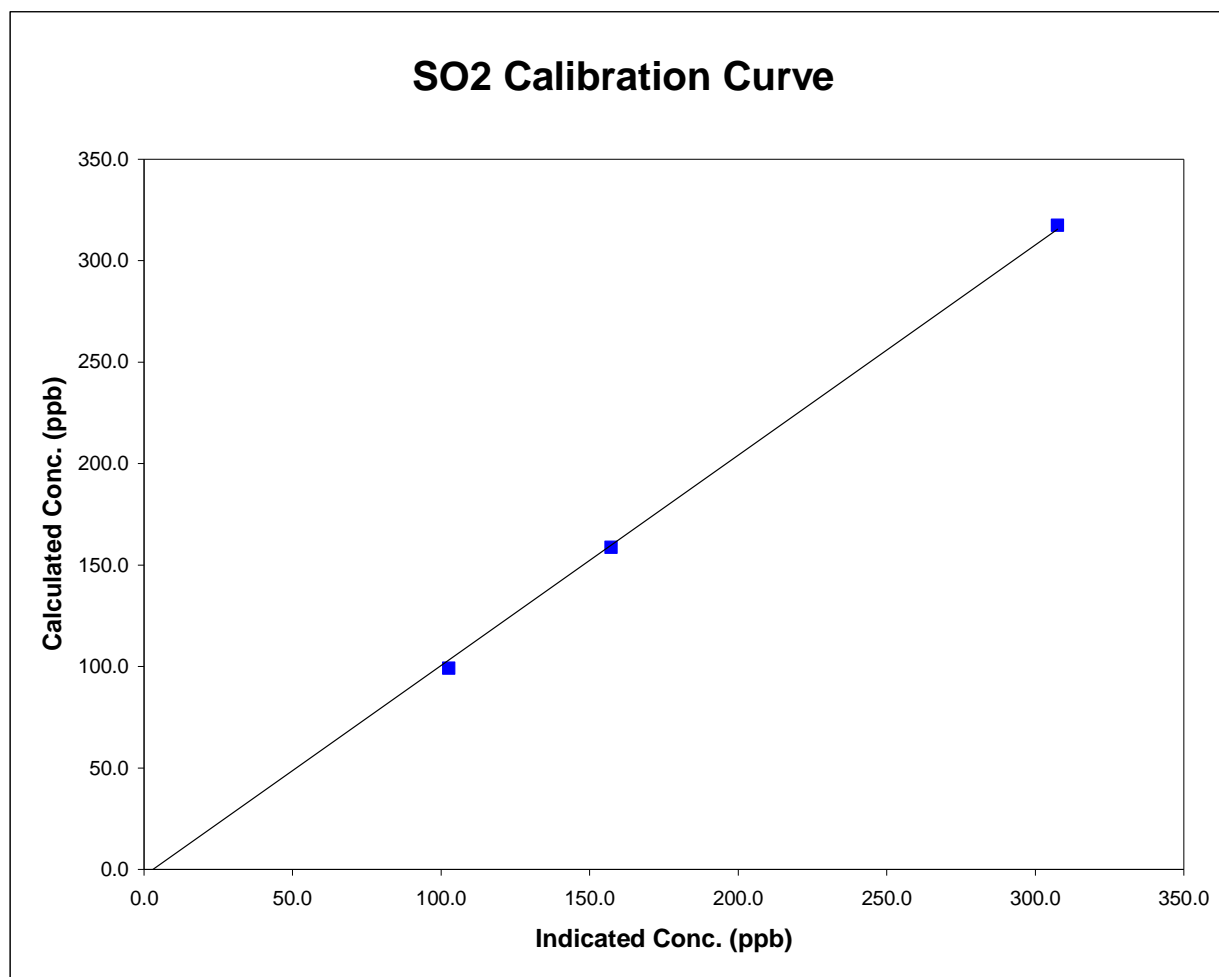


Station Information

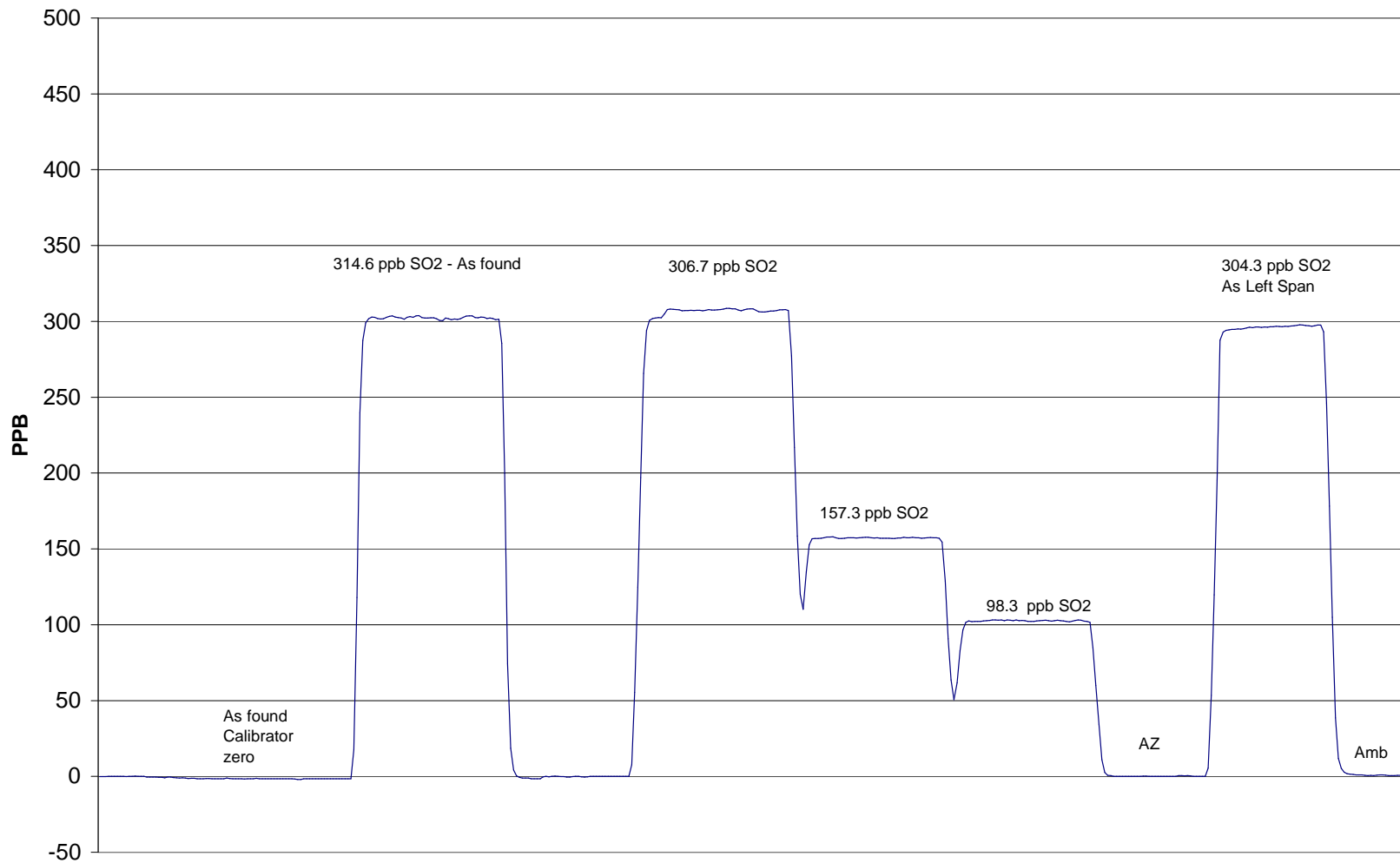
Calibration Date	October 3, 2006	Previous Calibration	September 20, 2006
Station Number	1	Station Location	Muskoseepi Park
Start Time (MST)	12:00	End Time (MST)	15:20
Analyzer make/model	TEI Model 43C APS1AB	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A		
317.4	307.5	1.0321	Correlation Coefficient	0.999419
158.7	157.3	1.0090		
99.2	102.6	0.9669	Slope	1.036074
			Intercept	-3.126732



SO2 Calibration



October 3, 2006

Calibration Report



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

Station Information

Calibration Date	<u> </u> October 3, 2006	Previous Calibration	<u> </u> September 20, 2006
Station Number	<u> </u> 5	Station Location	<u> </u> Rover
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other: <u> </u>
Start Time (MST)	<u> </u> 12:00	End Time (MST)	<u> </u> 15:20
Barometric Pressure	<u> </u> 27.5 inches Hg	Station Temperature	<u> </u> 20.0 Deg C
Calibrator	<u> </u> VICI Metronics	Serial Number	<u> </u> 111-1695
Perm-tube Conc	<u> </u> 235 ng/min	Perm-tube Date	<u> </u> 8/8/2006
Correction factor	<u> </u> 0.936162	Perm-tube Cert #	<u> </u> T-25214
DACS make	<u> </u> Focus AP1000	DACS serial No.	<u> </u> 52662
DACS voltage range	<u> </u> 0 - 1 volt	DACS channel #	<u> </u> 6
	<u> </u> Before		<u> </u> After
Calculated slope	<u> </u> 0.999535	Calculated slope	<u> </u> 1.035347
Calculated intercept	<u> </u> 0.357266	Calculated intercept	<u> </u> -0.039567
Analyzer make	<u> </u> TEI Model 43C APS1AB	Analyzer serial #	<u> </u> 609716238

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	9.3	ppb	9.3	ppb
coefficient	1.723		1.723	
Lamp Voltage	822	volts	821	volts
Chamber Temp	43.6	Deg C	43.8	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	671.1	mm Hg	671.5	mm Hg
Sample Flow	439	ccm	437	ccm
Lamp Intensity	39,100	mv	38,100	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	2340.4	0.0	-0.5	N/A
2500	2340.4	72.2	69.5	1.0383
5000	4680.8	36.1	34.8	1.0366
8000	7489.3	22.6	22.7	0.9953
zero	2340.4	0.0	-2.2	As Found Zero
2500	2340.4	72.2	66.0	As Found Span
Average Correction Factor				1.0234

Calculated value of As Found Response: 68.61 ppm Percent Change of As Found: 5.0%

	before calibration		after calibration	
Auto zero	<u> </u> -0.1	ppm	<u> </u> -0.5	ppm
Auto span	<u> </u> 79.7	ppm	<u> </u> 82.1	ppm

Notes: _____

Calibration Performed By: Dawn Ewan

Calibration Summary



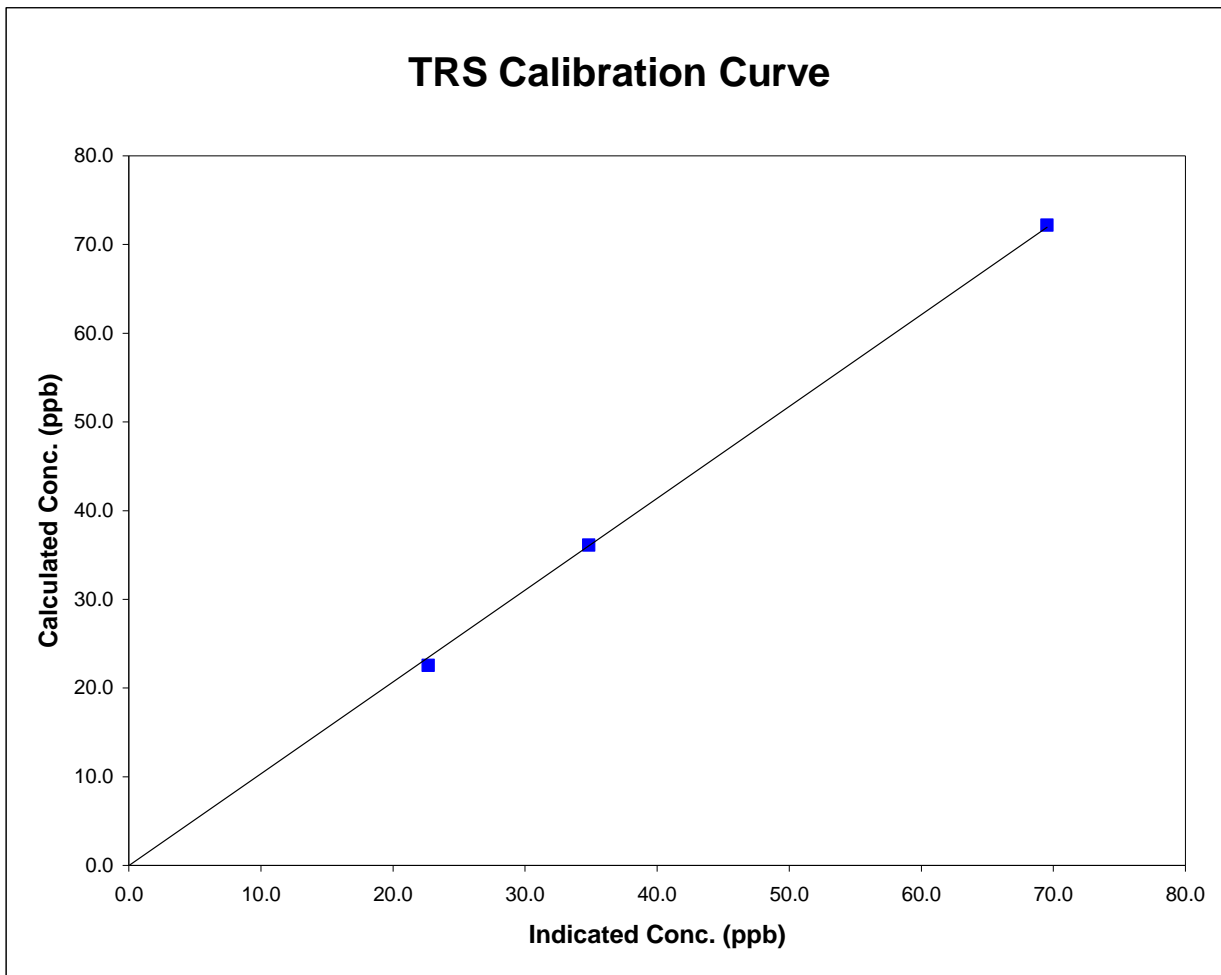
Parameter TRS
Air Monitoring Network PASZA

Station Information

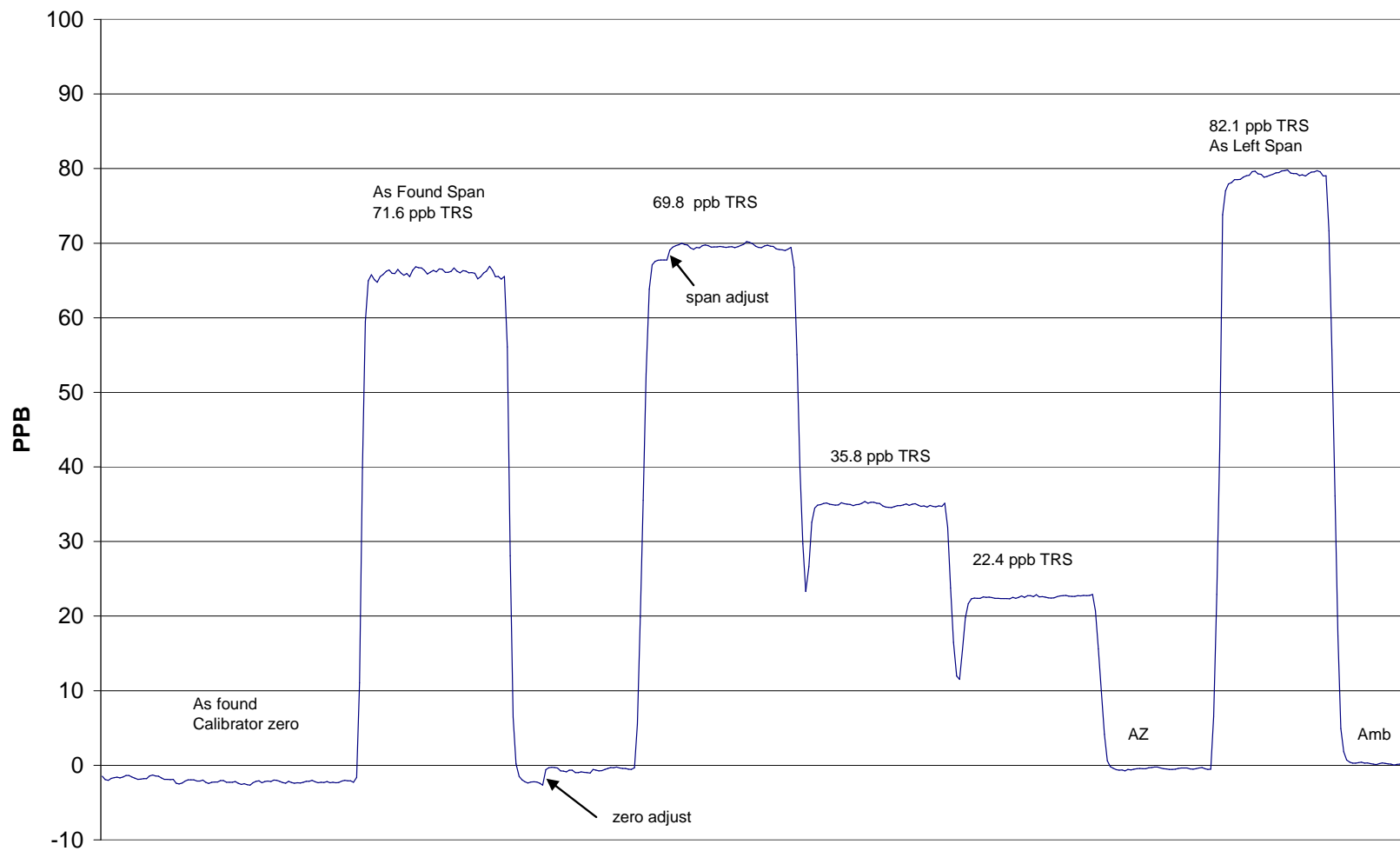
Calibration Date	<u>October 3, 2006</u>	Previous Calibration	<u>September 20, 2006</u>
Station Number	<u>5</u>	Station Location	<u>Rover</u>
Start Time (MST)	<u>12:00</u>	End Time (MST)	<u>15:20</u>
Analyzer make/model	<u>TEI Model 43C APS1AB</u>	Analyzer serial #	<u>609716238</u>

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.5	N/A		
72.2	69.5	1.0383	Correlation Coefficient	0.999594
36.1	34.8	1.0366		
22.6	22.7	0.9953	Slope	1.035347
			Intercept	-0.039567



TRS Calibration



October 3, 2006

Calibration Summary



Parameter
 Air Monitoring Network **PASZA**

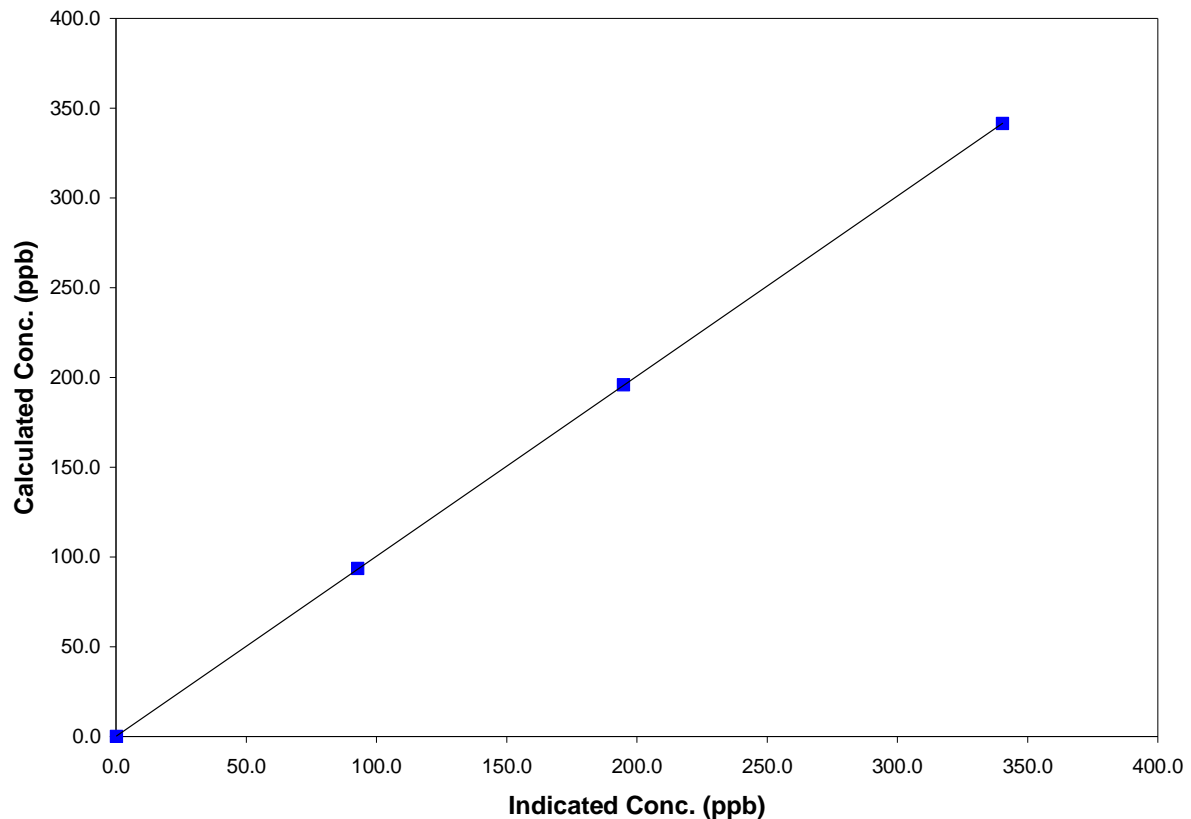
Station Information

Calibration Date	October 3, 2006	Previous Calibration	September 20, 2006
Station Number	6	Station Location	Rover
Start Time (MST)	12:00	End Time (MST)	14:51
Analyzer make/model	TEI 49C a3C1AB	Analyzer serial #	609716240

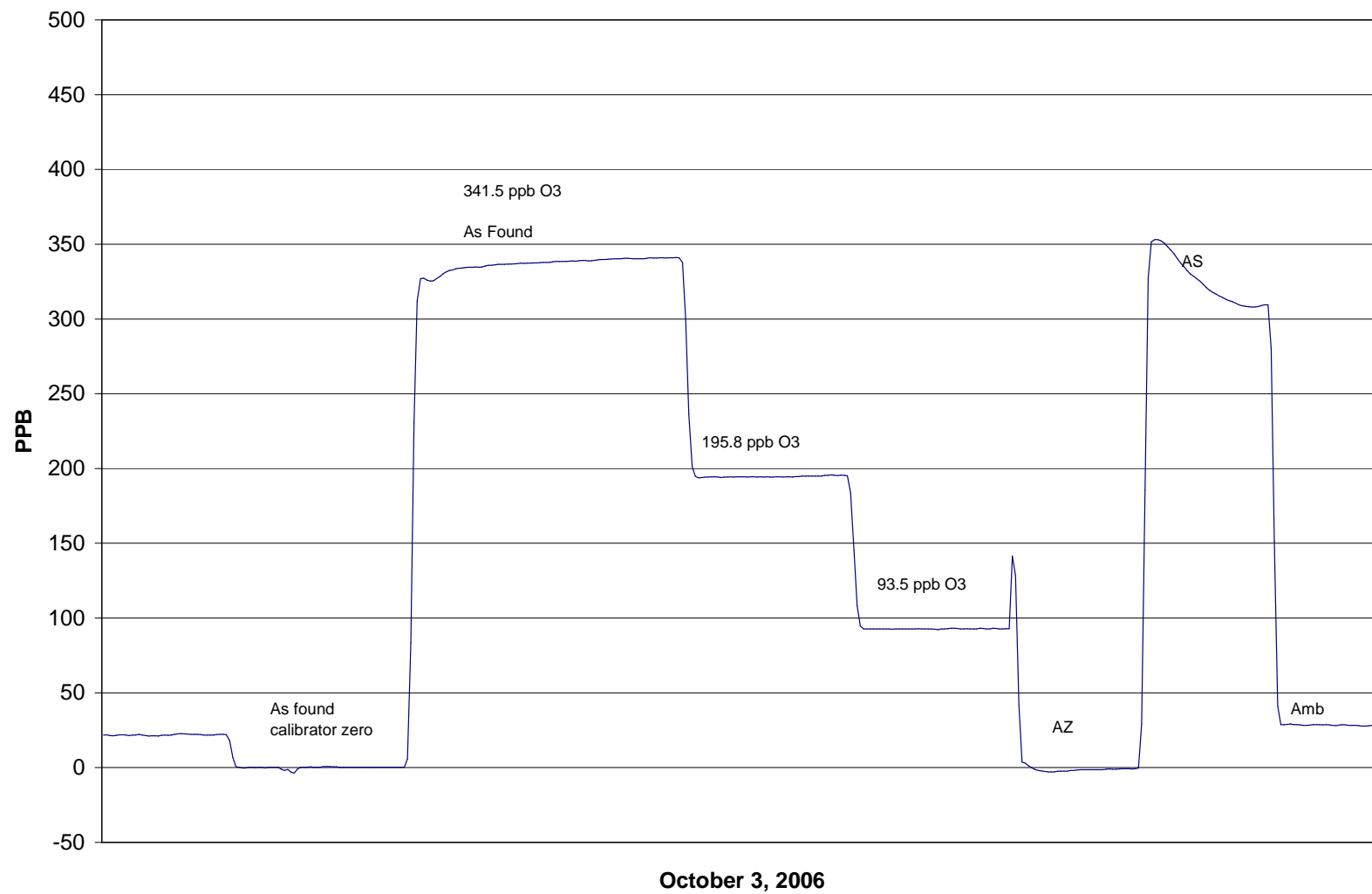
Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	NA		
341.5	340.4	1.0031	Correlation Coefficient	0.999997
195.8	194.9	1.0045		
93.5	92.9	1.0067	Slope	1.003489
			Intercept	0.039485

O3 Calibration Curve



O3 Calibration



Calibration ReportParameter SO₂Air Monitoring Network PASZA**Station Information**

Calibration Date	October 13, 2006	Previous Calibration	September 27, 2006
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)	10:15	End Time (MST)	15:35
Barometric Pressure	27.6 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	0.936842	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	0.972774	Calculated slope	1.019081
Calculated intercept	2.944095	Calculated intercept	-2.591743
Analyzer make	Monitor Labs	Analyzer serial #	332

	before		after	
Concentration range	1000	ppb	1000	ppb
Sample Flow	325	ccm	325	ccm
Span Pot	50		50	
Zero Pot	411		340	
T1	90	%	90	%
T2	39	%	39	%
T3	65	%	65	%

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	2342.1	0.0	0.0	N/A
2500	2342.1	317.1	311.8	1.0170
5035	4717.0	157.5	159.8	0.9854
9000	8431.6	88.1	90.8	0.9706
zero	2342.1	0.0	-9.9	As Found Zero
2500	2342.1	317.1	316.0	As Found Span
Average Correction Factor				0.9910

Calculated value of As Found Response: 319.970 ppm Percent Change of As Found: -0.9%

	before calibration		after calibration	
Auto zero	-1.2	ppm	89.9	ppm
Auto span	2.8	ppm	NA	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter SO2
 Air Monitoring Network PASZA

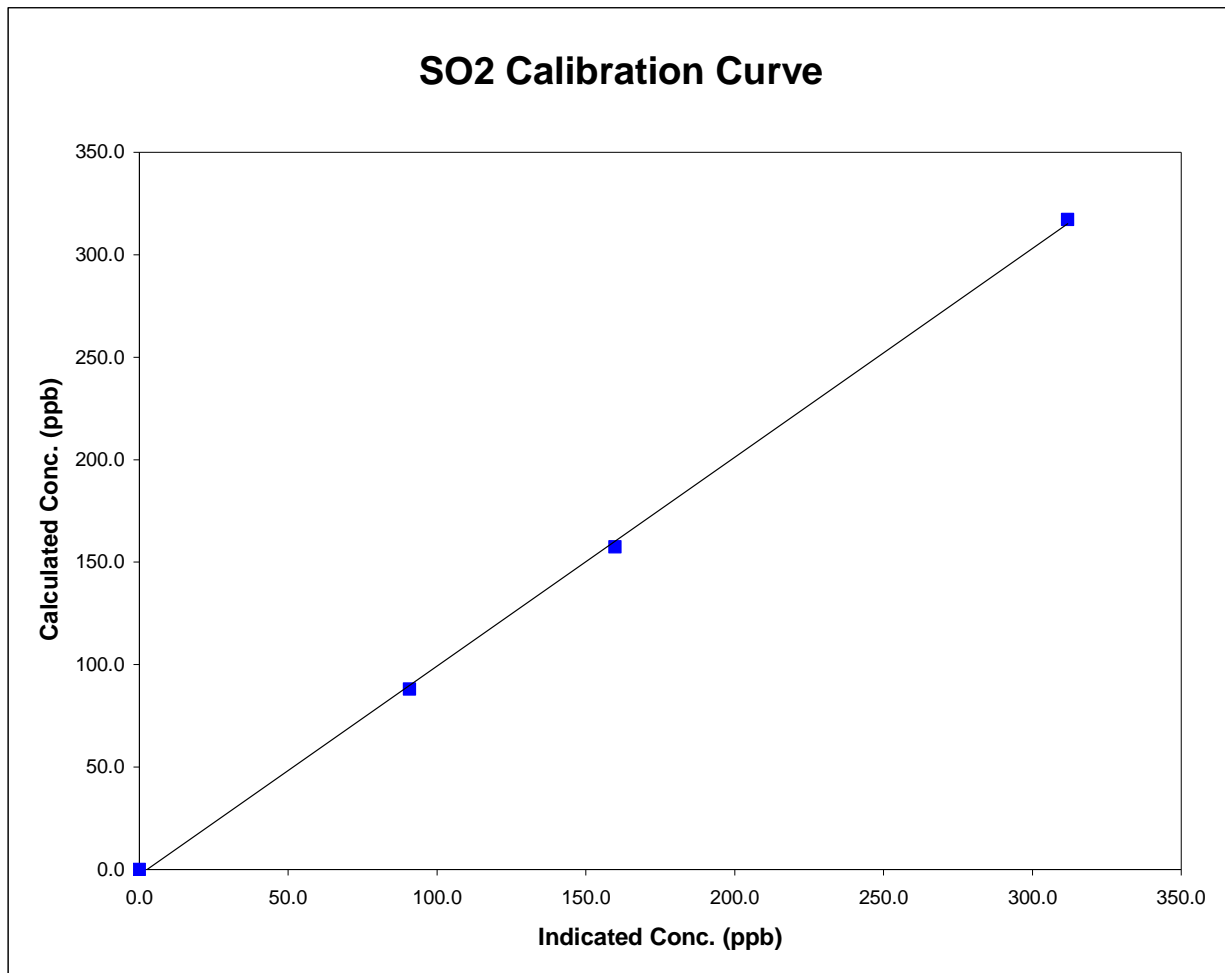


Station Information

Calibration Date	October 13, 2006	Previous Calibration	September 27, 2006
Station Number	5	Station Location	Valleyview
Start Time (MST)	10:15	End Time (MST)	15:35
Analyzer make/model	Monitor Labs	Analyzer serial #	332

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
317.1	311.8	1.0170	Correlation Coefficient	0.999595
157.5	159.8	0.9854		
88.1	90.8	0.9706	Slope	1.019081
			Intercept	-2.591743



SO₂ Calibration**October 13, 2006**

Calibration Report



Parameter H2S
Air Monitoring Network PASZA

Station Information

Calibration Date	October 13, 2006	Previous Calibration	September 27, 2006
Station Number	5	Station Location	Valleyview
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)	15:35
Barometric Pressure	27.67 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	0.940581	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	0.993406	Calculated slope	1.005957
Calculated intercept	-0.013155	Calculated intercept	0.237375
Analyzer make	TECO 43C	Analyzer serial #	45C-57351-313

	before		after	
Concentration range	100	ppb	100	ppb
Background	28.8	ppb	28.8	ppb
coefficient	0.788		0.788	
Lamp Voltage	700	volts	690	volts
Chamber Temp	44.1	Deg C	44.4	Deg C
Pressure	618.3	mm Hg	609	mm Hg
Sample Flow	457	ccm	456	ccm
Lamp Intesity	45,100	mv	44,900	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	2351.5	0.0	-0.1	N/A
2500	2351.5	71.9	71.1	1.0102
5035	4735.8	35.7	35.6	1.0033
9000	8465.2	20.0	19.2	1.0381
zero	2351.5	0.0	-0.4	As Found Zero
2500	2351.5	71.9	68.6	As Found Span
			9:23	1.0172

Calculated value of As Found Response: 68.47 ppm Percent Change of As Found: 4.7%

	before calibration		after calibration	
Auto zero	0.1	ppm	0.1	ppm
Auto span	37.0	ppm	35.6	ppm

Notes: _____

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter H2S

Air Monitoring Network PASZA



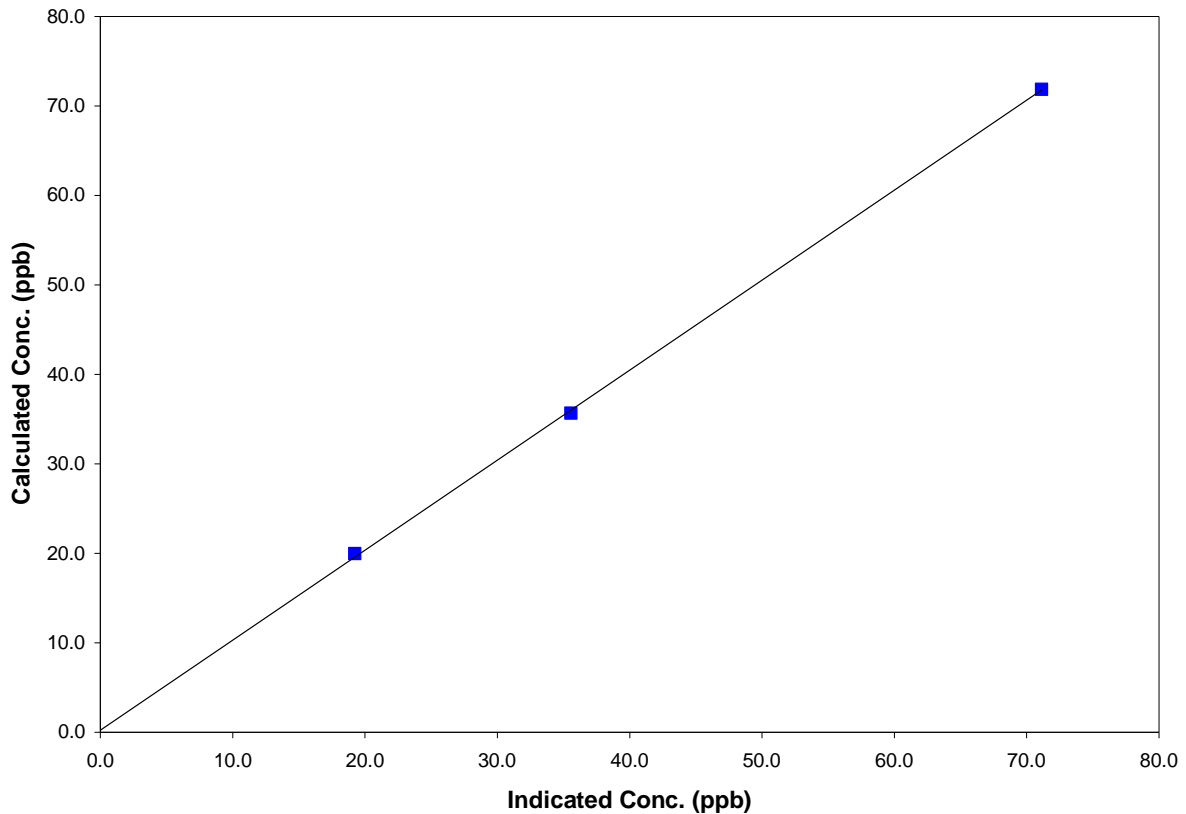
Station Information

Calibration Date	<u> October 13, 2006 </u>	Previous Calibration	<u> September 27, 2006 </u>
Station Number	<u> 5 </u>	Station Location	<u> Valleyview </u>
Start Time (MST)	<u> 10:15 </u>	End Time (MST)	<u> 15:35 </u>
Analyzer make/model	<u> TECO 43C </u>	Analyzer serial #	<u> 45C-57351-313 </u>

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A		
71.9	71.1	1.0102	Correlation Coefficient	0.999902
35.7	35.6	1.0033		
20.0	19.2	1.0381	Slope	1.005957
			Intercept	0.237375

H2S Calibration Curve



H2S Calibration

