



Air Quality Monitoring Network for July 2007



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September 14, 2007

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RE: Peace Airshed Zone Association (PASZA) – July 2007 Ambient Air Report

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

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

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

The measured ambient air quality was within the Provincial and Federal objectives for the Henry Pirker, Evergreen Park, Smoky Heights, Beaverlodge, Falher and Valleyview stations.

An AENV equipment audit occurring June 26-28 reflected the degradation of a calibration permeation tube used to calibrate the network TRS analyzers. In July, the TRS analyzers were recalibrated with a newly recertified gas cylinder and as a result higher as found percent change values are reported in the TRS calibration section for all stations.

During the month of July the following events were noted:

Henry Pirker Station:

- ◆ The following dates saw an decrease in CO spans due to an slight decrease in regulator pressure: July 7, 8, 9, 10, 19, 21, 22 and 24 to 31.
- ◆ The THC analyzer was down from July 1st to 3rd – flame went out and was relit on July 3rd – resulting in a total of fifty-eight (58) hours of invalid data.
- ◆ The TRS spans began to drop after July 6th calibration and a second calibration was performed on July 20th to adjust span.
- ◆ All analyzers / sensors at the Henry Pirker station had an operational uptime greater than 90%.
- ◆ The AQI for the month resulted in 698 hours of Good readings.

Evergreen Park Station:

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

Smoky Heights Station:

- ◆ Two power failures (July 23rd and July 27th) resulted in: two (2) hours of invalid data for the SO₂, and TRS analyzers as well as temperature, wind speed and wind direction sensors.
- ◆ The TEOM had a total of six (6) hours of invalid data due to power issues on July 8, 13, 14, 23 and 27.
- ◆ All analyzers / sensors at the Smoky Heights station had an operational uptime greater than 90%.

Beaverlodge Station:

- ◆ The NO_x analyzer spans start to increase from July 20th to 24th due to an empty zero air blend cylinder. The cylinder was replaced on July 24th.
- ◆ All analyzers / sensors at the Beaverlodge station had an operational uptime greater than 90%.
- ◆ The AQI for the month resulted in 674 hours of Good readings and 11 hours of Fair readings.

Portable - Falher Station:

- ◆ On July 1st four (4) hours of data was flagged invalid for all parameters due to a communication error.
- ◆ TRS spans drop on July 12 to 15 and July 17 to 19, reason unknown.
- ◆ On July 20th a new meteorological tower was installed this resulted in two (2) hours of maintenance for the meteorological sensors (temperature, relative humidity, wind speed & wind direction).
- ◆ A total of six (6) hours were flagged invalid on July 20th and 21st for the NO_x analyzer – analyzer flat lined post power reset for reasons unknown – resumed operation after the daily zero / span on July 21st.
- ◆ On July 27th new meteorological sensors (temperature, relative humidity, wind speed & wind direction) were installed this resulted in two (2) hours of maintenance for the meteorological sensors.
- ◆ All analyzers / sensors at the Falher station had an operational uptime greater than 90%.

Valleyview Station:

- ◆ On July 1st three (3) hours of data was flagged invalid for all parameters due to a communication error.
- ◆ A power failure on July 4th resulted in one (1) hour of invalid data for all parameters.
- ◆ On July 19th the DACS failed resulting in a total of forty-three (43) hours of invalid data.
- ◆ All analyzers / sensors at the Valleyview station had an operational uptime greater than 90%.

Passive Monitoring: 54 Stations throughout the PASZA zone:

There were twelve (12) new passive sites added to the network on July 4th 2007: they include Clear River, Bear Canyon, Worsley, Hines Creek, Ronan, Cadotte Lake School, Simon Lake Store, Dixonville, Queen Elizabeth Park, Blue Sky, Gerry Lake and Musreau Lake. Field notes during collection noted the following: all three samples (SO₂, O₃ and NO₂) from the Cadotte Lake School site were vandalized; an SO₂ sample from McLennan was missing; and two SO₂ samples were mislabeled (from Wapiti and Peavine). Consequently, there were no lab results for these samples. There were six duplicate sites sampled in the month of July; Gordondale, Spirit River, Woking, Wanham, Clear River and Grande Prairie HP. The passive sample analyses were performed by MAXXAM Analytics Inc.

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

- Monthly average concentrations for SO₂ passives ranged from 0.1 ppb to 0.6 ppb, with a mean of 0.3 ppb.
 - Monthly average concentrations for NO₂ passives ranged from 0.1 ppb to 4.7 ppb, with a mean of 1.1 ppb.
 - Monthly average concentrations for O₃ passives ranged from 16.5 ppb to 34.8 ppb, with a mean of 23.5 ppb.
-

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

On Behalf of the,
Peace Airshed Zone Association

A handwritten signature in blue ink that reads "Michael Bisaga".

Michael Bisaga
PASZA Program Manager

A handwritten signature in blue ink that reads "Sharon Whiteley".

Sharon Whiteley, B.Sc..
AQM Data Specialist

PASZA Monthly Continuous Data Summary

Jul-2007 Peace Airshed Zone Association							Maximum Recorded Values						Operational Time (%)
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		Conc	1-hr		24-hr / 8-hr			
	1-hr	24-hr			1-hr	24-hr		Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	
SO ₂ (ppb)	172	57	Henry Pirker	0.1	0	0	8.0	Jul-04 04:00	9.9	SW	0.6	Jul-04	100.0%
SO ₂ (ppb)	172	57	Evergreen Park	0.5	0	0	9.9	Jul-04 08:00	9.5	WNW	1.7	Jul-04	100.0%
SO ₂ (ppb)	172	57	Smoky Heights	0.5	0	0	8.9	Jul-06 05:00	17.7	WSW	1.8	Jul-06	99.7%
SO ₂ (ppb)	172	57	Beaverlodge	0.3	0	0	7.0	Jul-29 09:00	4.3	N	1.1	Jul-29	100.0%
SO ₂ (ppb)	172	57	Portable-Falher	0.2	0	0	2.8	Jul-13 09:00	8.0	SSE	0.4	Jul-26	99.5%
SO ₂ (ppm)	172	57	Valleyview	0.62	0	0	12.73	Jul-31 22:00	11.5	WNW	2.72	Jul-24	93.7%
NO (ppb)			Henry Pirker	1.1	-	-	21.4	Jul-12 05:00	6.0	WSW	2.1	Jul-12	100.0%
NO ₂ (ppb)	212	106	Henry Pirker	5.3	0	0	17.8	Jul-03 02:00	5.9	WSW	7.6	Jul-04	100.0%
NO _x (ppb)			Henry Pirker	6.4	-	-	35.3	Jul-12 05:00	6.0	WSW	9.2	Jul-04	100.0%
NO (ppb)			Beaverlodge	0.2	-	-	11.4	Jul-26 07:00	1.4	SSE	1.3	Jul-26	95.0%
NO ₂ (ppb)	212	106	Beaverlodge	2.4	0	0	10.1	Jul-05 05:00	4.1	NW	4.2	Jul-23	95.0%
NO _x (ppb)			Beaverlodge	2.6	-	-	18.9	Jul-26 07:00	1.4	SSE	5.1	Jul-26	95.0%
NO (ppb)			Portable-Falher	1.2	-	-	10.2	Jul-08 04:00	4.7	ENE	2.7	Jul-08	98.7%
NO ₂ (ppb)	212	106	Portable-Falher	3.2	0	0	15.4	Jul-02 23:00	4.4	SSW	5.5	Jul-03	98.7%
NO _x (ppb)			Portable-Falher	4.2	-	-	21.6	Jul-02 00:00	6.4	S	8.0	Jul-03	98.7%
O ₃ (ppb)	82		Henry Pirker	22.3	0	-	44.9	Jul-16 15:00	8.6	SE	28.7	Jul-05	100.0%
O ₃ (ppb) - 8-hr		65	Henry Pirker			0					40.0	Jul-27	
O ₃ (ppb)	82		Beaverlodge	26.7	0	-	56.8	Jul-17 12:00	8.8	ESE	37.0	Jul-17	100.0%
O ₃ (ppb) - 8-hr		65	Beaverlodge			0					51.4	Jul-17	
O ₃ (ppb)	82		Portable-Falher	21.4	0	-	49.3	Jul-17 15:00	9.4	ESE	29.5	Jul-29	99.5%
O ₃ (ppb) - 8-hr		65	Portable-Falher			0					42.5	Jul-27	
CO (ppm)	13		Henry Pirker	0.14	0	-	0.4	Jul-18 00:00	7.2	ESE	0.3	Jul-18	100.0%
CO (ppm) - 8-hr		5	Henry Pirker			0					0.4	Jul-19	
THC (ppm)			Henry Pirker	2.04	-	-	3.1	Jul-28 01:00	4.9	SW	2.2	Jul-13	92.2%
TRS (ppb)			Henry Pirker	0.3	-	-	1.5	Jul-01 01:00	18.9	SSW	0.4	Jul-01	100.0%
TRS (ppb)			Evergreen Park	0.5	-	-	1.5	Jul-05 04:00	2.2	W	0.7	Jul-28	100.0%
TRS (ppb)			Smoky Heights	0.5	-	-	2.5	Jul-12 00:00	6.2	W	0.7	Jul-12	99.6%
TRS (ppb)			Portable-Falher	0.7	-	-	4.6	Jul-08 06:00	7.2	ENE	1.1	Jul-23	99.5%
H ₂ S (ppb)	10	3	Valleyview	0.1	0	0	2.7	Jul-31 23:00	13.4	WNW	0.2	Jul-31	93.7%
PM _{2.5} (µg/m ³)		30 ^a	Henry Pirker	4.8	0	0	30.3	Jul-18 19:00	10.3	WSW	14.9	Jul-18	98.1%
PM _{2.5} (µg/m ³)		30 ^a	Evergreen Park	5.6	0	0	50.1	Jul-12 06:00	4.4	SW	13.9	Jul-18	98.8%
PM _{2.5} (µg/m ³)		30 ^a	Smoky Heights	3.8	0	0	57.7	Jul-25 20:00	3.4	SW	9.0	Jul-18	97.0%
PM _{2.5} (µg/m ³)		30 ^a	Beaverlodge	4.7	0	0	40.0	Jul-13 07:00	2.9	S	14.2	Jul-18	96.5%

PASZA Monthly Continuous Data Summary - continued

Jul-2007		Peace Airshed Zone Association					Maximum Recorded Values					
							1-hr			24-hr / 8-hr		
RH (%)		Henry Pirker	60.3	-	-	-	-	-	-	-	-	100.0%
RH (%)		Beaverlodge	54.7	-	-	-	-	-	-	-	-	100.0%
RH (%)		Portable-Falher	68.1	-	-	-	-	-	-	-	-	99.2%
RH (%)		Valleyview	63.8	-	-	-	-	-	-	-	-	93.7%
SR (W/m ²)		Henry Pirker	228.6	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Henry Pirker	19.1	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Evergreen Park	18.7	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Smoky Heights	18.4	-	-	-	-	-	-	-	-	99.7%
Temp (°C)		Beaverlodge	18.8	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Portable-Falher	18.6	-	-	-	-	-	-	-	-	99.2%
Temp (°C)		Valleyview	18.6	-	-	-	-	-	-	-	-	93.7%
WSPD v (km/hr)		Henry Pirker	10.9	-	-	33.9	Jul-24 14:00	33.9	WSW	22.2	Jul-24	100.0%
WSPD v (km/hr)		Evergreen Park	7.3	-	-	29.7	Jul-01 09:00	29.7	WSW	16.6	Jul-01	100.0%
WSPD v (km/hr)		Smoky Heights	12.2	-	-	42.0	Jul-24 13:00	42.0	WSW	27.5	Jul-24	99.7%
WSPD v (km/hr)		Beaverlodge	8.7	-	-	36.1	Jul-24 12:00	36.1	W	23.4	Jul-01	100.0%
WSPD v (km/hr)		Portable-Falher	9.2	-	-	33.6	Jul-24 11:00	33.6	WSW	23.9	Jul-01	98.9%
WSPD v (km/hr)		Valleyview	5.0	-	-	21.9	Jul-29 23:00	21.9	NNW	10.1	Jul-24	93.7%
WSPD s (km/hr)		Henry Pirker	11.9	-	-	34.2	Jul-24 14:00	34.2	WSW	22.4	Jul-24	100.0%
WSPD s (km/hr)		Evergreen Park	8.2	-	-	30.0	Jul-01 09:00	30.0	WSW	17.4	Jul-01	100.0%
WSPD s (km/hr)		Smoky Heights	12.9	-	-	42.4	Jul-24 13:00	42.4	WSW	27.7	Jul-24	99.7%
WSPD s (km/hr)		Beaverlodge	9.2	-	-	36.4	Jul-24 12:00	36.4	W	23.7	Jul-01	100.0%
WSPD s (km/hr)		Portable-Falher	9.6	-	-	33.9	Jul-24 11:00	33.9	WSW	24.3	Jul-01	98.9%
WSPD s (km/hr)		Valleyview	5.6	-	-	22.1	Jul-29 23:00	22.1	NNW	10.7	Jul-24	93.7%
WDIR		Henry Pirker	WSW	-	-	-	-	-	-	-	-	100.0%
WDIR		Evergreen Park	W	-	-	-	-	-	-	-	-	100.0%
WDIR		Smoky Heights	WSW	-	-	-	-	-	-	-	-	99.7%
WDIR		Beaverlodge	W	-	-	-	-	-	-	-	-	100.0%
WDIR		Portable-Falher	WSW	-	-	-	-	-	-	-	-	98.9%
WDIR		Valleyview	WNW	-	-	-	-	-	-	-	-	93.7%

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

Continuous Network Equipment Summary

PASZA – Henry Pirker Station

General Station Issues

Routine monthly calibrations were performed on July 3rd (CO and THC), July 4th (NO_x), July 6th (SO₂ and O₃).

Parameter	Make	Model	Notes
SO ₂	TECO	43	No operational issues observed.
NO _x /NO/NO ₂	TECO	42C	No operational issues observed.
O ₃	API	400	No operational issues observed.
CO	TECO	48C	The following dates saw an decrease in CO spans due to an decrease in regulator pressure: July 7, 8, 9, 10, 19, 21, 22 and 24 to 31.
THC	TEI	51-CLT	The THC analyzer was down from July 1 st to 3 rd – flame went out and was relit on July 3 rd – resulting in a total of fifty-eight (58) hours of invalid data.
TRS	TEI	42C	The TRS spans began to drop after July 6 th calibration and a second calibration was performed on July 20 th to adjust span.
PM _{2.5}	R&P	1400AB	Twelve (12) hours were removed due to excessive baseline drift. Two power bumps (July 11 th and 13 th) resulted in two (2) hours of invalid data.
RH	Met One	083D	No operational issues observed.
AT	Met One	083D	No operational issues observed.
SR	Met One	096-1	No operational issues observed.
WS	Met One	010C	No operational issues observed.
WD	Met One	020C	No operational issues observed.

PASZA – Evergreen Park Station

General Station Issues

Routine monthly calibrations were performed on July 12th (SO₂, TRS) and July 24th and 27th (TEOM).

Parameter	Make	Model	Notes
SO ₂	API	100	No operational issues observed.
TRS	TEI	42C	No operational issues observed.
PM _{2.5}	R&P	1400AB	Nine (9) hours were removed due to excessive baseline drift. The TEOM was calibrated again on July 27 th to replace fittings and re-confirm flows.
AT	Met One	083D	No operational issues observed.
WS	Met One	010C	No operational issues observed.
WD	Met One	020C	No operational issues observed.

PASZA – Smoky Heights Station

General Station Issues

Routine monthly calibrations were performed on July 10th (SO₂, TRS). Two power failures (July 23rd and July 27th) resulted in: two (2) hours of invalid data for all parameters.

Parameter	Make	Model	Notes
SO ₂	API	100A	No operational issues observed.
TRS	TEI	42C	No operational issues observed.
PM _{2.5}	R&P	1400AB	Sixteen (16) hours were removed due to excessive baseline drift. The TEOM had a total of six (6) hours of invalid data due to power issues on July 8, 13, 14, 23 and 27.
AT	Met One	083D	No operational issues observed.
WS	Met One	010C	No operational issues observed.
WD	Met One	020C	No operational issues observed.

PASZA – Beaverlodge Station

General Station Issues

Routine monthly calibrations were performed on July 13th (NO_x, SO₂, O₃).

Parameter	Make	Model	Notes
SO ₂	TECO	43CTL	No operational issues observed.
NO _x /NO/NO ₂	TECO	42C	From July 20 th to 24 th the spans increase due to station temperature.
O ₃	API	400	No operational issues observed.
PM _{2.5}	R&P	1400AB	Twenty-six (26) hours were removed due to excessive baseline drift.
AT	n/a	n/a	No operational issues observed.
RH	n/a	n/a	No operational issues observed.
WS	Blue Sky	857	No operational issues observed.
WD	Blue Sky	857	No operational issues observed.

PASZA – Falher (Portable) Station

General Station Issues

Routine monthly calibrations were performed on July 25th (SO₂, TRS, O₃ and NO_x). On July 1st an error occurred during communication transfer of data and four (4) hours of data were flagged invalid for all parameters.

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed.
NO _x /NO/NO ₂	TECO	43C	Six (6) hours of invalid on July 20 th & 21 st due to flatlining post power reset – reason unknown.
TRS	TEI	43C	TRS spans drop on July 12 to 15 and July 17 to 19 reasons unknown.
O ₃	TEI	49C	No operational issues observed.
AT	Gill Met Pak 3		A total of four (4) hours were attributed to maintenance (tower installation & new Gill sensor installation).
RH	Gill Met Pak 3		A total of four (4) hours were attributed to maintenance (tower installation & new Gill sensor installation).
WS	Gill Met Pak 3		A total of four (4) hours were attributed to maintenance (tower installation & new Gill sensor installation).
WD	Gill Met Pak 3		A total of four (4) hours were attributed to maintenance (tower installation & new Gill sensor installation).

PASZA – Valleyview Station

General Station Issues

Routine monthly calibrations were performed on July 26th for SO₂ and H₂S. On July 1st an error occurred during communication transfer of data and three (3) hours of data were flagged invalid for all parameters. On July 4th a power failure resulted in one (1) hour of invalid data for all parameters. DACS failure resulted in forty-three (43) hours of invalid data for all parameters on July 19th and 20th.

Parameter	Make	Model	Notes
SO ₂	ML	332	No other operational issues noted.
H ₂ S	TEI	43C	No other operational issues noted.
AT	Gill Met Pak 3		No other operational issues noted.
RH	Gill Met Pak 3		No other operational issues noted.
WS	Gill Met Pak 3		No other operational issues noted.
WD	Gill Met Pak 3		No other operational issues noted.

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: July 1, 2007 to August 1, 2007

Alberta's Air Quality Index

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

Summary

Number of 1-hr Good Readings:	698
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-Jul-07	13	13	N	12	12	11	12	14	15	16	16	16	16	17	17	17	18	17	16	14	12	9	9	
2-Jul-07	11	N	11	10	9	8	10	10	11	14	16	16	17	18	18	18	18	17	16	16	11	11	12	12
3-Jul-07	N	7	6	7	8	7	7	7	9	11	14	16	17	18	18	17	16	14	14	15	14	12	11	11
4-Jul-07	9	9	6	7	6	N	7	7	10	13	15	17	18	18	18	19	19	19	19	19	16	13	14	13
5-Jul-07	12	9	5	6	6	N	6	8	14	16	17	16	17	18	19	19	19	17	16	19	15	20	20	19
6-Jul-07	16	15	13	12	N	9	9	12	15	17	18	19	19	1	N	3	16	15	14	14	14	13	12	12
7-Jul-07	11	11	11	11	11	N	10	11	12	13	14	14	15	15	15	16	16	16	16	15	12	11	9	9
8-Jul-07	11	11	13	10	N	6	7	8	9	9	9	10	10	12	15	16	14	14	14	13	12	10	8	7
9-Jul-07	7	9	8	N	9	9	9	10	10	10	11	12	12	12	13	13	13	13	13	12	9	8	8	8
10-Jul-07	8	7	N	7	5	4	9	6	8	11	11	11	11	10	9	8	8	9	9	8	6	6	6	6
11-Jul-07	7	N	6	5	3	4	N	8	10	11	11	11	11	11	12	12	12	12	12	11	9	9	12	9
12-Jul-07	N	9	4	7	6	8	9	10	13	14	14	14	15	14	14	14	14	14	15	15	13	12	10	N
13-Jul-07	13	20	13	14	12	7	11	16	15	13	14	13	13	12	12	12	13	14	14	12	11	10	N	N
14-Jul-07	13	12	12	12	12	11	9	11	13	16	18	17	17	17	17	16	16	16	15	14	17	N	11	8
15-Jul-07	7	7	5	5	6	6	6	10	12	14	13	13	13	13	16	17	16	15	14	9	N	N	N	13
16-Jul-07	13	10	9	8	6	4	5	7	9	12	13	15	N	17	20	22	18	19	18	N	15	16	16	16
17-Jul-07	14	13	12	9	8	6	6	7	10	14	17	18	19	21	19	18	18	19	N	19	16	16	14	12
18-Jul-07	9	8	8	6	7	7	10	11	11	13	15	19	17	18	20	17	15	N	15	25	16	16	15	13
19-Jul-07	13	16	13	15	9	10	13	10	6	12	9	11	12	13	12	9	N	9	7	9	8	N	N	N
20-Jul-07	9	9	8	7	7	N	6	7	8	11	12	13	13	13	13	12	13	13	14	13	12	8	6	5
21-Jul-07	6	7	8	7	8	N	8	9	10	11	12	12	12	12	12	13	13	13	12	13	13	13	14	13
22-Jul-07	14	12	11	10	N	7	6	9	12	14	16	16	15	14	14	14	14	15	14	13	12	11	12	7
23-Jul-07	8	8	8	N	8	6	8	8	7	8	7	8	10	10	13	13	14	13	12	13	10	9	10	7
24-Jul-07	7	9	N	7	6	6	7	9	10	10	12	13	13	12	12	12	12	12	11	12	11	11	10	9
25-Jul-07	9	N	7	7	7	7	7	7	9	10	11	11	12	12	12	12	12	12	12	12	11	6	9	9
26-Jul-07	N	9	5	4	4	3	4	6	6	8	10	12	14	15	15	16	16	17	17	16	13	12	12	N
27-Jul-07	12	12	11	9	10	9	9	12	12	15	18	19	20	20	20	21	21	20	20	17	16	13	N	11
28-Jul-07	15	12	7	14	15	7	9	8	10	12	15	17	20	20	18	14	17	18	17	16	14	N	10	10
29-Jul-07	9	10	12	N	13	12	13	13	14	14	16	16	17	17	17	17	17	15	13	12	N	10	11	10
30-Jul-07	9	9	N	N	N	6	4	7	8	8	9	10	10	11	10	10	10	10	9	N	8	8	7	8
31-Jul-07	8	8	8	8	7	5	5	5	8	8	8	7	7	8	7	7	7	7	N	7	6	5	5	5

PASZA - Henry Pirker Sulphur Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

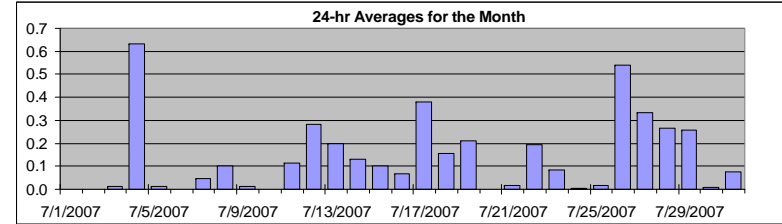
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	8.0	ppb	4-Jul	4:00 5:00
Maximum 24-hr Average:	0.6	ppb	4-Jul	



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
	1.4	0.5	0.2	0.0	0.0	0.0	0.0	0.1 ppb	0.0 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-Jul-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
2-Jul-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
3-Jul-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
4-Jul-07	0	0	0	2	8	A	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	8.0
5-Jul-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
6-Jul-07	0	0	0	0	A	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
7-Jul-07	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	0.0	0.6
8-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
9-Jul-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3
10-Jul-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
11-Jul-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0.1	1.4
12-Jul-07	A	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	3.6
13-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.4
14-Jul-07	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.1	1.2
15-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.1	0.4
16-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.1	0.4
17-Jul-07	0	0	0	0	0	0	0	0	1	4	0	0	0	0	1	0	0	0	0	0	A	1	0	0	0	0.4	3.6
18-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	A	A	0	1	0	0	0	0	0.2	0.6
19-Jul-07	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.2	0.5
20-Jul-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
21-Jul-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.4
22-Jul-07	0	0	0	0	A	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.1
23-Jul-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
24-Jul-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
25-Jul-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
26-Jul-07	A	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	A	0.5	1.2
27-Jul-07	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.6
28-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	0.4
29-Jul-07	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	1.6
30-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.0	0.2
31-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.2
Hourly Avg	0.0	0.0	0.1	0.1	0.3	0.1	0.2	0.2	0.3	0.2	0.2	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		
Hourly Max	0.3	0.2	0.5	1.7	8.0	0.5	3.2	1.4	3.6	3.6	1.4	0.6	0.9	1.2	1.2	1.0	0.9	1.4	0.6	0.6	0.6	0.5	0.6	0.4			

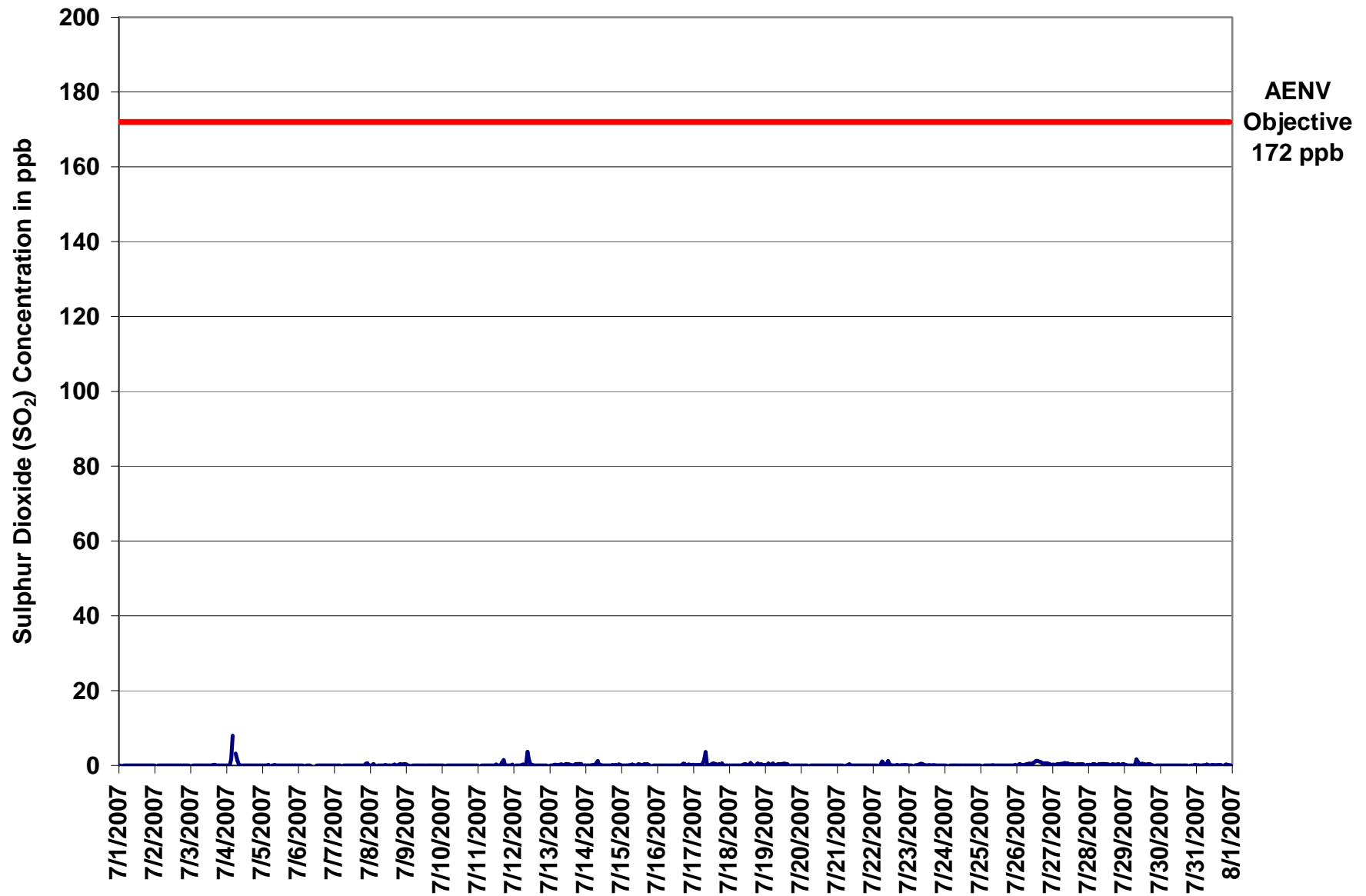


Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

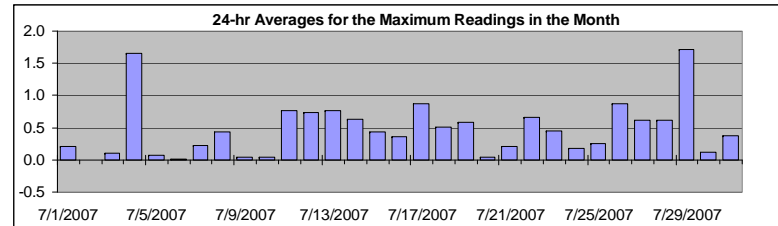
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	21.1	ppb	29-Jul	4:00 5:00
Maximum 24-hr Value:	1.7	ppb	29-Jul	



AIC Time:	0 hrs	Operational Time:	708 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	95.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.5	1.2	0.5	0.3	0.0	0.0	0.0	0.5 ppb	0.3 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jul-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.2	0.5
2-Jul-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
3-Jul-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.1	1.1
4-Jul-07	0	0	0	6	19	A	7	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.7	19.5
5-Jul-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
6-Jul-07	0	0	0	0	A	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.4
7-Jul-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.2	1.4
8-Jul-07	1	0	2	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0.4	2.5
9-Jul-07	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.7
10-Jul-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.0	0.9
11-Jul-07	0	A	0	0	0	0	0	0	0	0	0	0	2	0	0	1	6	7	0	0	0	1	0	0	0.8	6.6
12-Jul-07	A	0	0	0	0	0	0	0	1	6	5	0	0	0	0	0	0	0	0	0	0	0	0	A	0.7	5.5
13-Jul-07	0	0	0	4	2	0	1	0	1	0	0	1	0	1	0	0	0	1	1	0	0	A	1	0	0.8	4.4
14-Jul-07	0	0	0	0	0	1	0	3	4	0	0	0	0	0	0	0	0	0	1	0	1	A	1	0	0.6	3.7
15-Jul-07	0	0	0	0	0	1	0	1	1	1	0	1	1	1	1	1	1	1	1	0	A	1	0	0	0.4	1.1
16-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	A	1	1	0	0	0.4	1.0
17-Jul-07	0	0	0	0	0	0	1	4	6	0	0	1	1	1	1	1	1	A	2	1	0	0	0	0	0.9	6.4
18-Jul-07	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	A	0	2	0	0	1	1	0.5	2.0
19-Jul-07	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	A	0	0	0	0	0	0	0	0.6	1.2
20-Jul-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.4
21-Jul-07	0	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9
22-Jul-07	0	0	0	0	A	1	2	1	1	2	3	1	1	0	0	1	1	0	1	1	1	1	1	1	0.7	2.6
23-Jul-07	0	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	1	0	0	0	0.4	0.8
24-Jul-07	0	0	A	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.2	0.5
25-Jul-07	1	A	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	0.8
26-Jul-07	A	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	2	1	1	1	1	A	0.9	1.6
27-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0	0.6	1.0
28-Jul-07	0	0	0	1	0	0	0	0	1	0	1	1	1	0	0	1	1	0	0	0	1	A	1	1	0.6	1.3
29-Jul-07	2	0	0	0	21	0	0	0	3	3	1	1	1	0	0	0	1	1	1	1	A	0	0	0	1.7	21.1
30-Jul-07	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0	1	0.1	1.0
31-Jul-07	0	1	0	0	0	1	0	1	0	0	0	1	1	0	1	1	1	1	A	1	1	1	0	0	0.4	1.1
Hourly Avg	0.3	0.2	0.3	0.6	1.7	0.3	0.5	0.6	0.8	0.6	0.5	0.4	0.4	0.3	0.4	0.4	0.6	0.5	0.3	0.3	0.3	0.4	0.3	0.3		
Hourly Max	1.8	0.6	2.5	6.4	21.1	1.2	6.9	3.7	6.4	5.5	5.0	1.1	2.0	1.6	1.6	1.2	5.9	6.6	1.5	2.0	1.3	1.4	1.4	1.4		

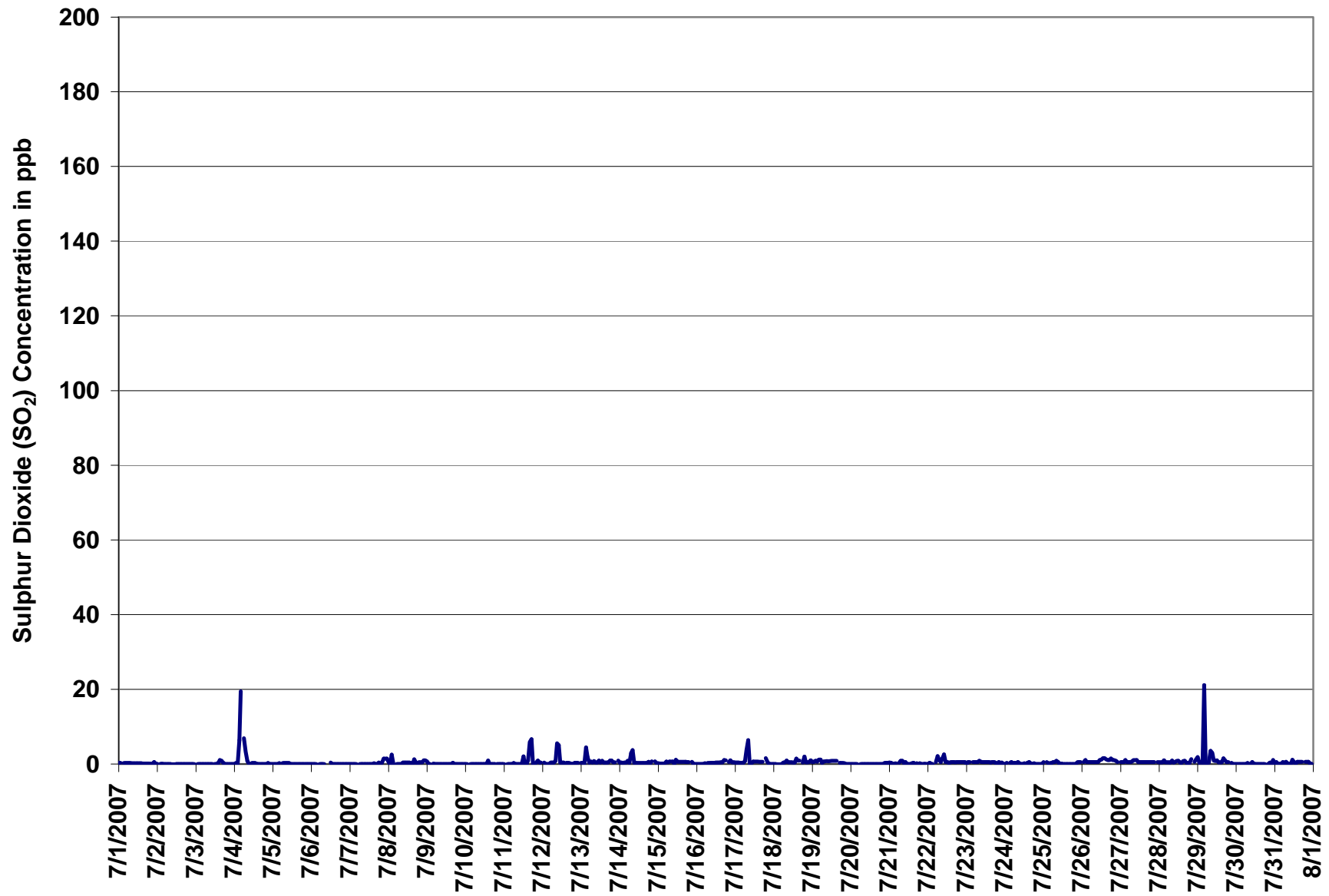
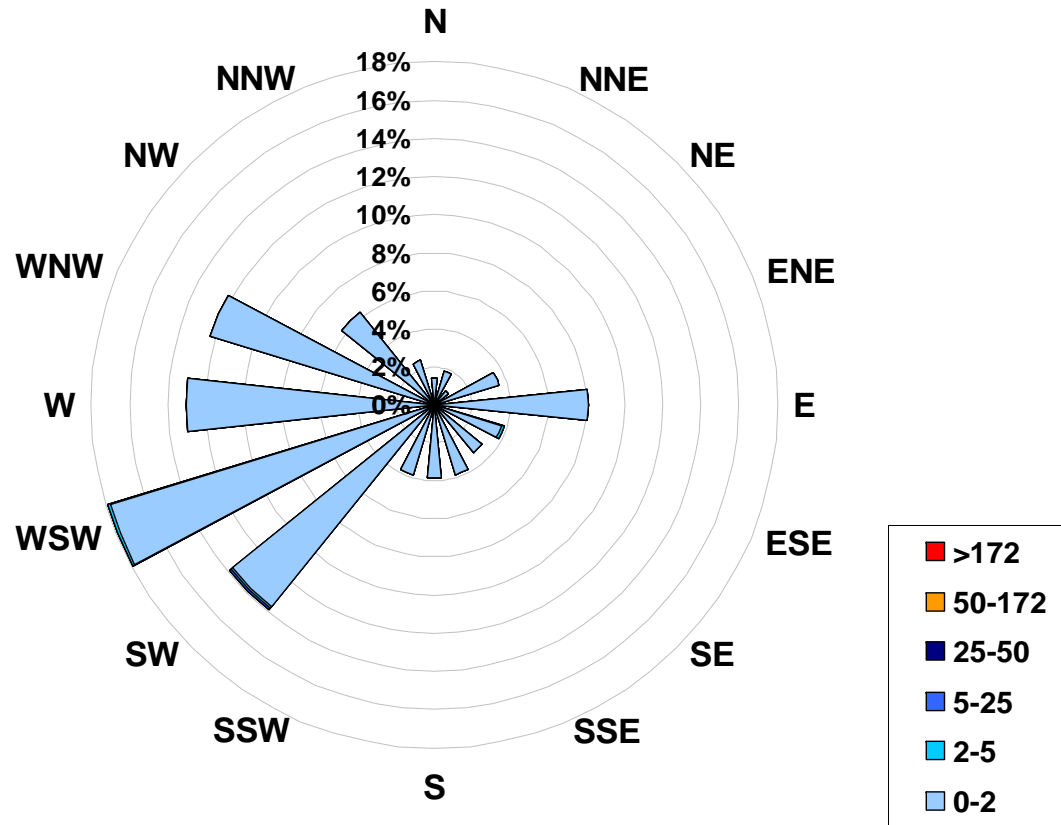


Figure 2. PASZA - Henry Pirker Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2		704
2	to 5		3
5	to 25		1
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			708

PASZA - Henry Pirker Nitrogen Dioxide Monthly Summary

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

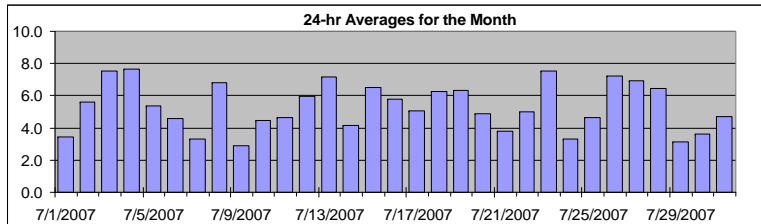
Nitrogen Dioxide (NO₂)

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	17.8	ppb	3-Jul	2:00 3:00
Maximum 24-hr Average:	7.6	ppb	4-Jul	



AIC Time:	34 hrs	Operational Time:	706 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	16.1	12.5	7.1	4.3	2.5	1.4	1.0	5.3 ppb	4.3 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
1-Jul-07	2	2	A	6	4	4	3	2	1	1	2	2	2	2	2	2	1	2	2	3	5	8	12	11	3.4	11.5
2-Jul-07	8	A	8	6	10	10	7	8	4	3	2	2	2	2	2	1	2	1	2	3	14	14	10	8	5.6	14.5
3-Jul-07	A	16	18	9	10	11	11	12	10	8	5	4	4	4	3	4	5	5	4	3	5	8	8	6	7.5	17.8
4-Jul-07	9	7	11	10	12	A	14	12	7	2	C	C	C	C	A	6	5	5	5	6	7	8	6	5	7.6	13.8
5-Jul-07	5	7	8	6	7	A	16	10	6	3	3	3	2	2	2	3	3	6	6	3	9	4	4	4	5.4	15.6
6-Jul-07	4	2	3	4	A	13	13	8	6	3	3	3	3	2	2	2	2	2	4	5	4	5	5	5	4.6	13.5
7-Jul-07	4	4	3	3	3	A	7	5	3	2	1	1	1	1	1	1	1	1	2	2	6	5	9	11	3.3	10.5
8-Jul-07	14	15	15	9	A	9	6	4	4	4	8	10	4	3	2	1	2	4	3	4	6	8	10	9	6.8	14.8
9-Jul-07	7	2	1	A	5	4	3	3	2	2	1	1	1	2	1	2	3	2	1	3	5	5	5	4	2.9	6.9
10-Jul-07	3	3	A	6	8	11	11	8	4	1	1	1	1	1	2	4	3	3	3	5	7	6	5	5	4.5	11.4
11-Jul-07	3	A	5	6	12	11	9	5	4	2	2	1	1	1	1	1	2	1	2	3	8	8	9	11	4.7	11.6
12-Jul-07	A	14	10	9	11	14	11	7	7	6	3	2	2	1	1	1	1	1	1	3	9	10	8	A	6.0	13.8
13-Jul-07	15	13	12	11	12	11	10	13	12	4	5	3	2	2	2	3	3	3	3	4	6	7	A	6	7.1	14.8
14-Jul-07	4	6	4	4	5	7	9	7	5	3	2	2	1	2	2	1	2	2	2	3	4	A	8	13	4.1	13.0
15-Jul-07	12	10	10	6	7	8	9	6	3	2	3	6	7	5	3	4	3	4	10	14	A	7	5	6	6.5	14.2
16-Jul-07	5	7	7	7	10	16	16	9	5	3	3	3	2	2	3	3	3	5	4	A	6	6	5	4	5.8	16.2
17-Jul-07	4	3	4	6	6	7	9	9	8	3	2	2	2	2	3	4	3	3	A	6	6	7	7	8	5.0	9.1
18-Jul-07	6	7	7	6	6	8	10	5	4	4	5	7	5	4	4	4	4	A	5	8	9	8	9	9	6.2	10.3
19-Jul-07	10	8	6	6	6	6	7	7	5	6	6	6	5	6	5	8	A	10	10	6	5	3	3	5	6.3	10.4
20-Jul-07	4	4	5	5	3	A	10	7	6	5	4	3	3	3	3	3	2	2	2	3	5	9	14	9	4.9	14.3
21-Jul-07	6	4	3	3	3	A	8	6	5	3	2	3	2	2	2	2	2	3	4	4	5	5	4	6	3.8	8.1
22-Jul-07	4	5	5	6	A	12	9	7	4	3	3	2	2	2	2	3	2	3	3	6	7	12	9	5.0	12.4	
23-Jul-07	7	6	6	A	9	15	10	10	10	7	8	8	9	13	6	5	4	6	5	4	6	10	5	5	7.5	14.6
24-Jul-07	3	2	A	6	6	8	7	5	4	3	3	3	3	2	2	2	2	2	2	2	2	2	3	3	3.3	8.3
25-Jul-07	2	A	6	4	5	5	6	6	4	2	1	2	2	1	1	1	2	1	1	1	3	17	17	15	4.7	17.5
26-Jul-07	A	16	16	11	10	12	11	9	10	10	5	3	2	2	3	3	2	2	3	7	11	6	5	A	7.2	16.0
27-Jul-07	7	5	6	8	7	11	17	16	8	7	6	3	3	2	2	2	3	3	3	7	7	11	A	14	6.9	17.2
28-Jul-07	16	13	13	12	9	7	9	7	5	3	3	3	3	2	3	6	3	2	2	3	5	A	12	8	6.5	16.4
29-Jul-07	6	6	4	3	2	5	4	2	2	2	2	2	2	2	2	2	2	4	2	3	A	6	4	3	3.1	6.1
30-Jul-07	3	2	2	1	3	5	10	4	3	3	2	2	2	2	2	2	3	2	3	A	8	6	7	3	3.6	9.6
31-Jul-07	4	3	3	4	4	10	11	13	4	2	3	4	4	3	3	3	3	3	A	7	6	5	4	4	4.7	12.9
Hourly Avg	6.3	6.8	7.0	6.3	6.9	9.2	9.5	7.5	5.4	3.7	3.3	3.2	2.8	2.7	2.4	2.9	2.6	3.1	3.5	4.4	6.4	7.3	7.4	7.2		
Hourly Max	16.4	16.2	17.8	11.5	12.2	16.2	17.2	16.5	12.2	9.7	8.1	10.2	9.3	12.8	5.5	8.1	5.4	10.4	10.4	14.2	14.5	17.3	17.5	15.2		

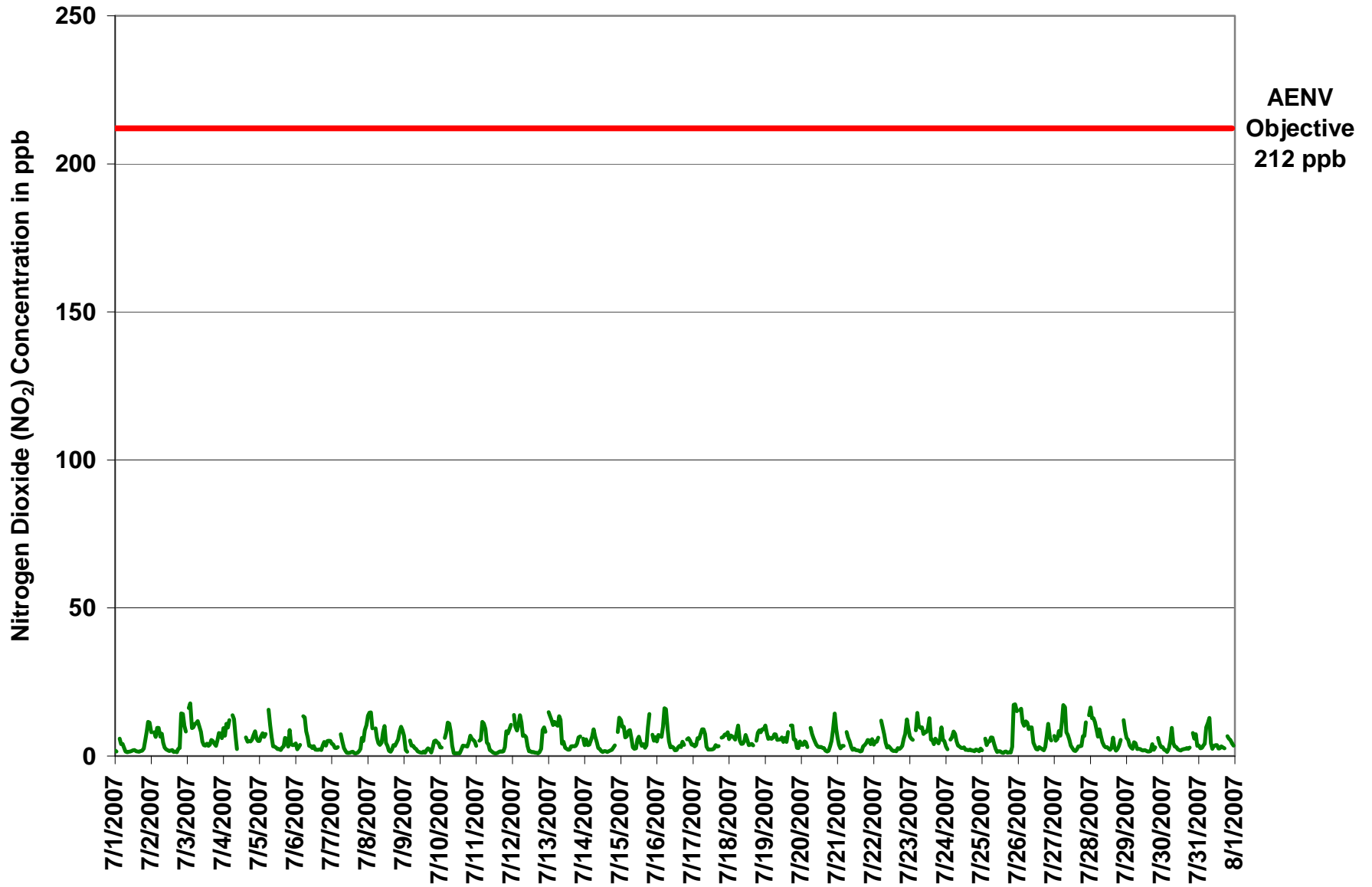


Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

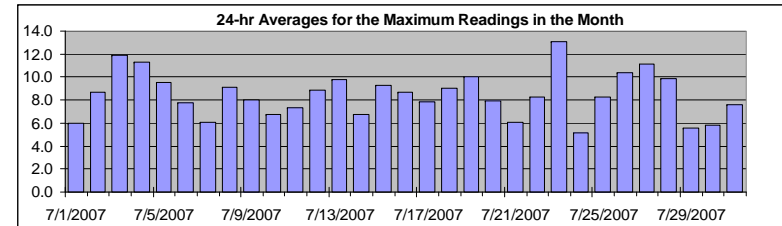
Nitrogen Dioxide (NO₂)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	35.4	ppb	23-Jul	13:00 14:00
Maximum 24-hr Value:	13.1	ppb	23-Jul	

AIC Time:	0 hrs	Operational Time:	706 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	94.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	23.5	18.0	11.2	7.3	4.6	2.6	2.1	8.4 ppb	7.3 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jul-07	4	4	A	9	6	9	4	2	2	2	3	4	3	4	3	3	3	4	4	4	9	12	24	18	6.0	23.5
2-Jul-07	12	A	11	8	13	16	9	9	6	4	3	4	4	4	4	3	3	2	5	4	23	25	16	11	8.7	25.3
3-Jul-07	A	27	22	12	13	15	22	18	18	14	8	6	5	8	6	6	9	8	6	5	9	11	13	12	11.9	27.0
4-Jul-07	12	11	18	15	19	A	19	18	10	5	C	C	C	C	A	10	9	7	8	8	10	13	8	6	11.3	18.6
5-Jul-07	6	11	10	10	13	A	20	13	9	6	6	5	6	7	5	7	9	10	12	9	18	16	8	5	9.5	19.5
6-Jul-07	9	4	6	6	A	17	15	12	9	6	6	6	18	4	4	5	5	4	6	7	6	8	8	8	7.8	18.0
7-Jul-07	8	6	5	4	6	A	13	6	4	4	2	2	3	3	4	3	4	3	4	7	12	10	13	16	6.0	15.9
8-Jul-07	15	16	16	13	A	12	10	6	5	6	11	15	6	5	4	4	5	5	5	6	8	13	11	11	9.1	16.5
9-Jul-07	11	4	3	A	13	5	12	10	11	4	5	2	2	4	3	23	28	8	2	7	7	7	7	6	8.0	27.9
10-Jul-07	5	4	A	8	12	14	12	11	8	2	2	3	2	2	5	6	6	5	6	8	10	11	7	7	6.7	13.9
11-Jul-07	5	A	8	10	17	15	13	6	7	5	4	3	2	2	5	2	4	3	4	7	14	9	12	14	7.4	17.5
12-Jul-07	A	15	14	11	14	18	16	9	8	9	6	3	3	3	3	3	3	4	5	8	16	12	12	A	8.9	17.6
13-Jul-07	17	16	14	13	13	13	12	17	21	6	7	4	4	4	4	6	6	6	5	7	8	9	A	13	9.8	20.9
14-Jul-07	6	10	5	7	8	9	14	11	7	4	4	3	2	4	4	3	3	3	4	8	6	A	12	21	6.7	20.8
15-Jul-07	16	11	11	9	9	10	11	8	4	4	4	9	9	7	5	7	6	7	17	23	A	13	7	9	9.3	22.6
16-Jul-07	7	8	9	8	13	21	20	15	8	5	5	4	4	4	5	5	6	10	10	A	10	9	10	5	8.7	21.3
17-Jul-07	5	5	5	8	8	10	12	11	10	5	4	8	4	6	4	6	7	5	A	8	10	16	10	12	7.8	15.9
18-Jul-07	8	9	11	11	8	15	15	8	6	6	6	9	10	6	5	6	5	A	7	12	12	10	13	11	9.1	15.1
19-Jul-07	14	14	8	10	9	11	11	13	8	8	9	8	7	9	8	14	A	14	21	10	10	4	5	7	10.1	20.6
20-Jul-07	7	6	9	6	4	A	14	11	10	9	8	6	6	5	5	4	2	5	7	11	12	18	12	7.9	18.4	
21-Jul-07	9	5	4	4	6	A	11	9	8	5	4	4	4	3	3	3	4	7	6	8	9	7	7	9	6.1	11.3
22-Jul-07	6	7	10	10	A	16	13	11	9	4	6	5	3	3	3	2	4	4	6	7	14	15	18	14	8.2	18.3
23-Jul-07	10	9	8	A	12	24	16	15	17	12	9	11	26	35	11	7	7	11	10	8	13	12	8	7	13.1	35.4
24-Jul-07	4	3	A	9	10	10	10	8	7	5	4	5	5	4	3	3	4	3	3	3	4	3	4	5	5.1	10.3
25-Jul-07	3	A	9	7	7	9	9	22	10	10	4	3	7	3	3	3	3	3	4	3	10	20	21	19	8.3	22.5
26-Jul-07	A	18	17	14	15	14	13	13	12	13	9	7	5	4	7	6	4	4	8	10	19	9	7	A	10.4	19.0
27-Jul-07	11	8	9	11	9	18	22	24	13	12	20	7	8	4	4	4	5	5	5	11	10	17	A	19	11.2	24.1
28-Jul-07	20	15	16	16	12	11	17	10	6	5	4	4	4	3	6	14	5	4	7	10	8	A	17	12	9.9	20.0
29-Jul-07	8	12	7	5	5	10	6	3	8	4	3	3	5	4	3	3	4	7	4	6	A	8	7	5	5.6	12.0
30-Jul-07	4	3	2	3	5	9	13	9	6	5	5	4	4	4	4	4	4	4	5	A	11	10	14	5	5.9	14.4
31-Jul-07	6	4	4	6	7	14	14	17	8	4	7	6	15	5	5	6	5	5	A	10	8	7	7	6	7.6	17.0
Hourly Avg	8.9	9.5	9.6	9.1	10.2	13.3	13.5	11.5	8.8	6.1	5.9	5.4	6.1	5.4	4.6	5.8	5.8	5.5	6.7	7.9	10.8	11.4	11.1	10.5		
Hourly Max	20.0	27.0	22.2	16.4	18.6	24.2	21.8	24.1	20.9	13.6	19.8	15.4	26.5	35.4	11.3	22.7	27.9	14.4	20.6	22.6	22.7	25.3	23.5	20.8		

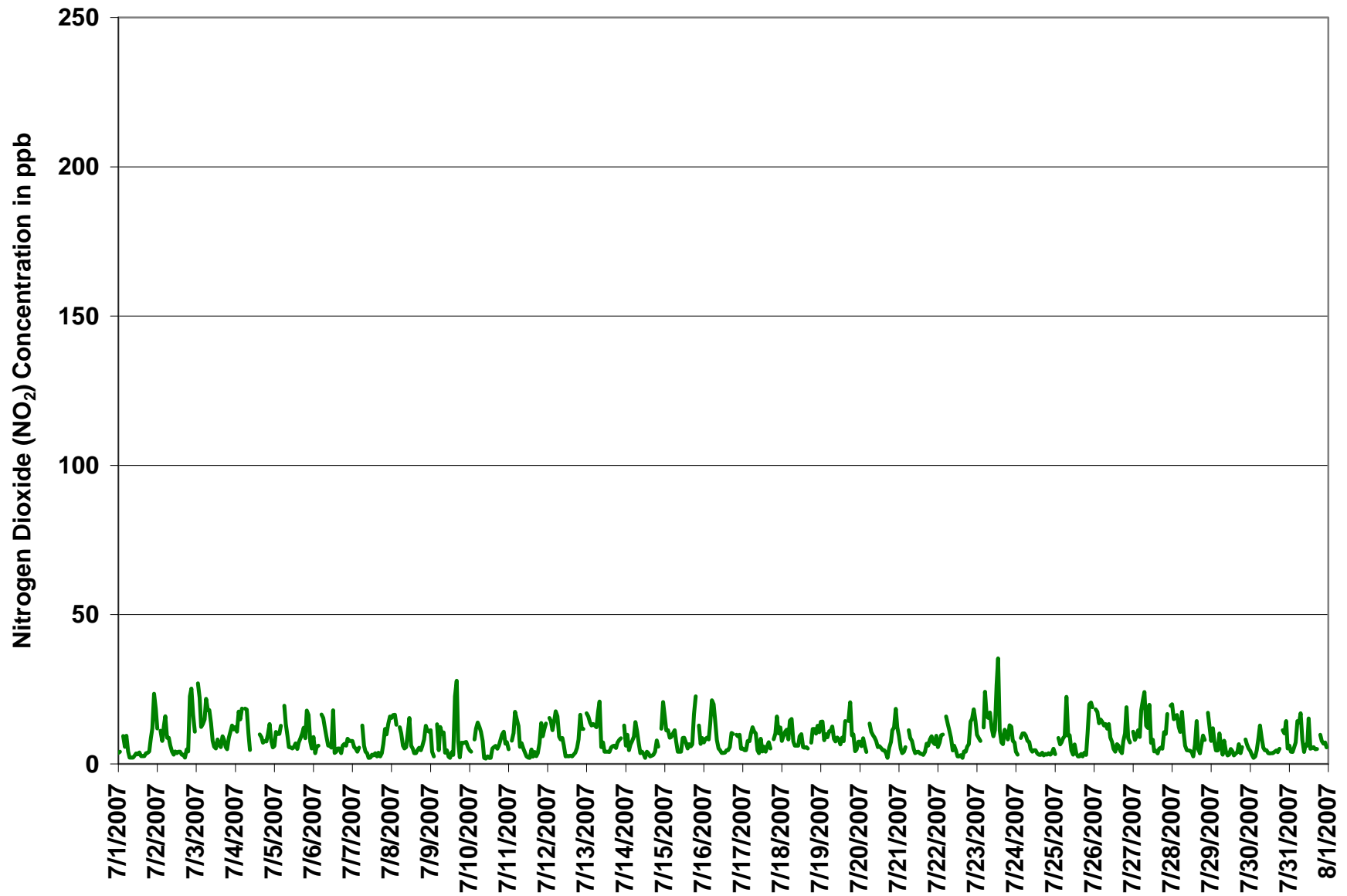
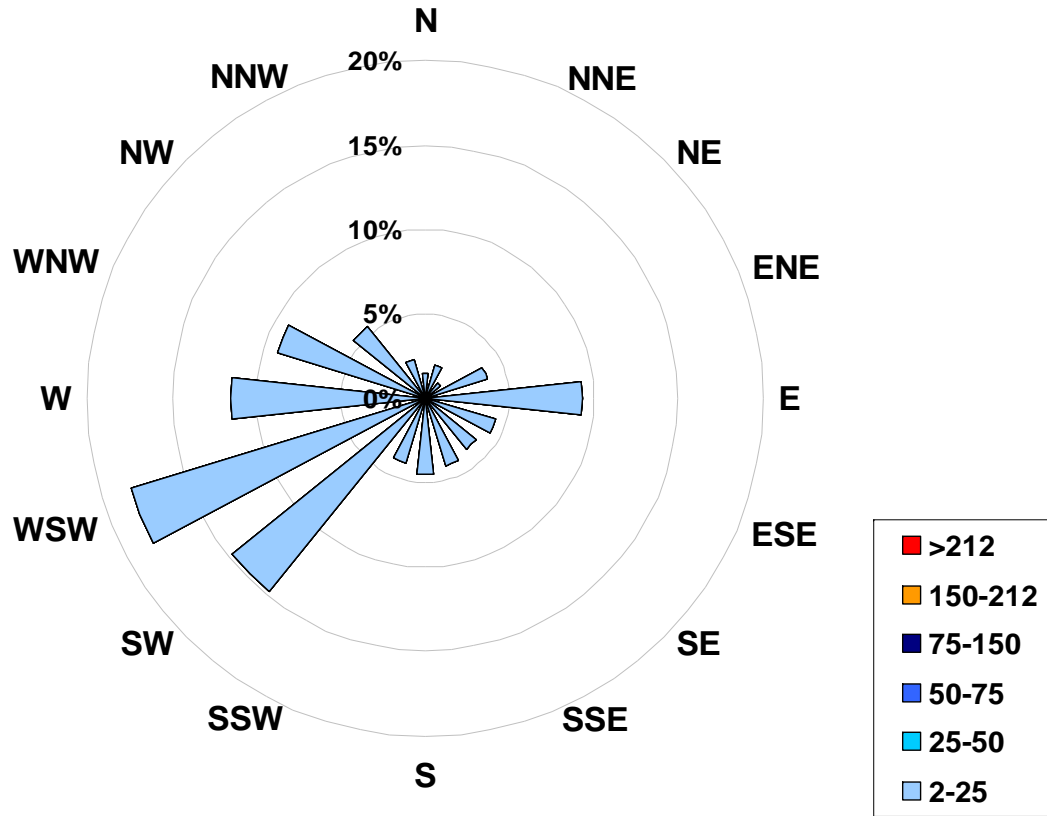


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

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

PASZA - Henry Pirker Nitric Oxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

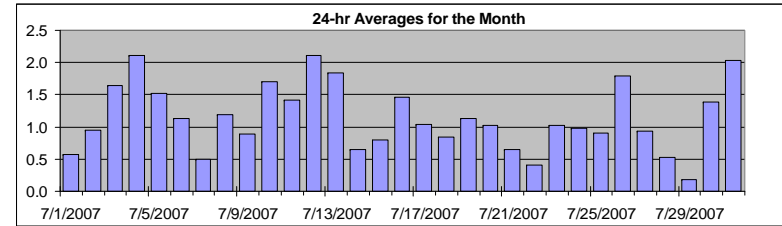
HOURLY AVERAGE TABLE

Nitric Oxide (NO)

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Maximum 1-hr Average:	21.4	ppb	12-Jul	5:00 6:00
Maximum 24-hr Average:	2.1	ppb	12-Jul	



AIC Time:	34 hrs	Operational Time:	706 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	7.5	3.7	1.3	0.6	0.3	0.1	0.1	1.1 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	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-Jul-07	0	0	A	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0.6	1.0	
2-Jul-07	0	A	0	0	0	2	2	4	2	1	1	1	1	1	1	1	1	0	1	1	2	0	0	0	0.9	4.3	
3-Jul-07	A	0	0	0	1	2	4	7	7	3	2	1	1	1	1	1	2	1	1	1	1	0	0	1.6	7.0		
4-Jul-07	0	0	1	0	1	A	7	10	5	2	C	C	C	C	A	2	2	2	1	1	1	1	1	1	2.1	9.8	
5-Jul-07	1	1	0	1	1	A	10	6	2	1	1	1	1	1	1	1	1	2	1	0	1	0	0	1.5	10.4		
6-Jul-07	0	0	0	0	A	2	4	3	2	1	1	1	3	1	1	1	1	1	1	1	0	0	0	1.1	3.6		
7-Jul-07	0	0	0	0	0	A	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.8		
8-Jul-07	1	2	2	3	A	6	2	1	1	1	2	3	1	1	0	0	0	0	0	0	0	0	0	1.2	6.0		
9-Jul-07	0	0	0	A	0	0	1	2	2	1	1	1	1	2	0	1	3	2	0	0	1	0	0	0.9	3.3		
10-Jul-07	0	0	A	0	1	4	7	7	2	1	1	1	1	1	1	2	2	2	1	2	2	1	0	1.7	6.8		
11-Jul-07	0	A	0	0	4	6	7	3	2	1	1	1	0	0	1	1	1	1	1	1	1	0	0	1.4	7.2		
12-Jul-07	A	0	1	0	1	21	8	4	3	2	1	0	0	0	0	0	0	0	0	0	1	1	0	2.1	21.4		
13-Jul-07	1	3	4	3	4	4	5	6	4	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.8	5.7		
14-Jul-07	0	0	0	0	0	0	2	2	1	1	0	0	0	1	0	0	0	0	0	1	1	1	A	0.7	2.0		
15-Jul-07	1	0	1	0	0	2	4	2	1	0	0	1	1	1	0	0	0	0	0	1	1	A	1	0.8	3.7		
16-Jul-07	0	0	0	0	1	6	10	5	3	1	1	1	1	1	1	0	0	0	0	A	0	0	0	1.5	9.7		
17-Jul-07	0	0	0	0	1	1	4	5	4	1	1	1	1	1	0	1	1	1	A	1	1	1	0	1.0	4.7		
18-Jul-07	1	1	1	1	1	1	3	2	1	1	1	1	1	1	0	1	1	A	0	0	1	0	1	0.8	2.8		
19-Jul-07	1	1	0	1	1	1	2	3	2	3	1	2	1	2	1	1	A	1	2	1	1	0	0	1.1	2.6		
20-Jul-07	0	0	0	0	0	A	3	3	3	2	1	1	1	1	1	1	1	0	0	1	1	0	1	1.0	3.2		
21-Jul-07	0	0	0	0	0	A	1	2	2	1	1	1	1	1	1	0	0	1	1	1	0	0	0	0.6	1.7		
22-Jul-07	0	0	0	0	A	0	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.0		
23-Jul-07	0	0	0	A	0	1	1	1	2	2	3	3	3	4	1	1	0	0	0	0	0	0	0	1.0	4.0		
24-Jul-07	0	0	A	0	0	1	3	2	1	2	1	1	1	1	1	1	1	1	1	1	0	0	0	1.0	2.6		
25-Jul-07	0	A	0	0	0	1	3	6	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0.9	5.6		
26-Jul-07	A	1	2	0	1	4	8	7	7	5	2	1	0	0	0	0	0	0	0	0	0	0	0	1.8	8.2		
27-Jul-07	0	0	0	0	0	1	4	7	3	2	1	1	0	0	0	0	0	0	0	0	0	0	A	0.9	7.5		
28-Jul-07	1	1	0	0	0	0	2	2	1	1	1	0	0	0	0	1	0	0	0	0	0	0	A	0.5	2.4		
29-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.5		
30-Jul-07	0	0	0	0	0	1	7	3	2	2	2	1	1	1	2	2	2	1	1	A	1	0	0	1.4	6.8		
31-Jul-07	0	0	0	0	0	2	6	12	3	2	2	2	2	2	2	2	2	2	A	2	1	1	1	2.0	12.5		
Hourly Avg	0.4	0.5	0.6	0.5	0.7	2.7	3.9	3.8	2.5	1.4	1.1	1.0	0.9	0.9	0.7	0.8	0.8	0.7	0.6	0.6	0.6	0.4	0.4	0.3			
Hourly Max	1.1	2.9	4.3	2.6	4.0	21.4	10.4	12.5	6.6	4.6	2.8	2.9	3.1	4.0	2.2	2.3	3.3	2.3	1.5	1.7	1.9	1.0	1.0	1.0			

PASZA - Henry Pirker Oxides of Nitrogen Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

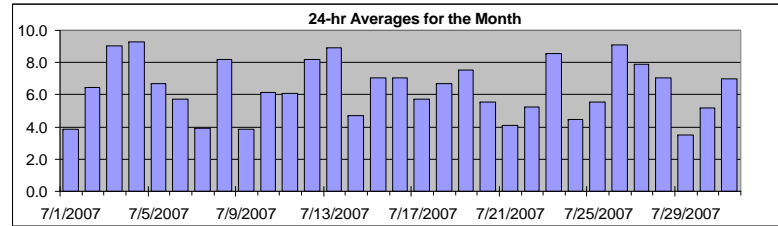
Oxides of Nitrogen (NO_x)

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Maximum 1-hr Average:	35.3	ppb	12-Jul	5:00 6:00
Maximum 24-hr Average:	9.2	ppb	4-Jul	

AIC Time:	34 hrs	Operational Time:	706 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	20.8	15.9	8.3	5.2	3.2	1.8	1.5	6.4 ppb	5.2 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Jul-07	2	2	A	6	4	5	3	2	2	2	2	2	3	3	2	2	2	2	2	3	6	8	12	11	3.9	12.0
2-Jul-07	8	A	8	6	10	11	9	12	7	4	3	3	2	3	3	2	2	2	3	3	16	14	10	8	6.5	15.8
3-Jul-07	A	16	18	9	10	12	15	19	16	11	6	5	5	5	4	5	7	6	5	4	6	8	8	6	9.0	18.6
4-Jul-07	9	7	11	10	13	A	20	22	12	5	C	C	C	C	A	7	5	6	6	6	7	9	6	5	9.2	22.1
5-Jul-07	5	7	8	7	8	A	26	16	8	4	4	3	3	3	3	4	4	8	7	3	9	4	4	4	6.7	25.7
6-Jul-07	5	3	3	4	A	16	17	12	9	5	5	4	6	3	3	3	3	3	4	6	4	5	5	5	5.7	16.7
7-Jul-07	4	4	3	3	3	A	9	7	4	3	2	2	2	2	2	1	1	2	2	3	7	6	9	11	3.9	10.7
8-Jul-07	15	17	17	12	A	16	8	6	5	6	10	13	5	4	2	2	3	4	4	5	6	9	10	9	8.2	17.1
9-Jul-07	7	2	2	A	6	4	5	4	5	3	2	2	2	3	2	3	6	4	2	4	6	6	5	5	3.9	7.3
10-Jul-07	3	3	A	6	9	15	18	15	6	2	2	2	2	2	3	6	6	5	5	6	9	7	6	5	6.2	17.8
11-Jul-07	4	A	5	6	16	17	16	7	6	3	3	2	1	1	2	2	2	2	2	4	10	8	10	11	6.1	16.9
12-Jul-07	A	14	11	9	12	35	19	10	10	9	4	2	2	2	2	2	2	1	2	3	10	10	9	A	8.2	35.3
13-Jul-07	16	16	16	13	15	14	15	19	16	5	6	3	3	3	3	4	4	4	4	5	7	7	A	6	8.9	19.1
14-Jul-07	4	6	4	4	5	7	11	9	6	3	3	2	2	2	2	2	2	2	3	4	4	A	9	14	4.7	13.8
15-Jul-07	13	10	11	7	7	10	12	8	3	3	3	6	7	5	4	4	3	4	10	15	A	7	5	6	7.1	15.0
16-Jul-07	5	7	7	6	10	22	25	14	8	4	4	4	2	3	3	4	3	5	4	A	6	6	5	4	7.0	25.3
17-Jul-07	4	3	4	6	6	9	13	13	11	4	3	2	2	2	3	4	3	3	A	6	7	7	7	8	5.7	13.4
18-Jul-07	6	7	7	7	6	9	13	7	5	5	6	8	6	4	4	4	4	A	5	8	9	8	10	9	6.7	12.7
19-Jul-07	11	8	6	7	6	7	9	10	8	8	7	8	6	8	6	9	A	11	12	6	6	3	3	5	7.5	12.0
20-Jul-07	4	4	5	4	3	A	12	10	9	7	5	4	4	4	3	3	2	2	2	3	5	9	15	9	5.5	14.9
21-Jul-07	6	4	3	3	3	A	9	8	6	4	3	3	3	2	2	2	2	4	4	5	5	5	4	6	4.1	9.1
22-Jul-07	4	5	5	6	A	12	11	9	5	3	4	3	2	2	2	2	3	2	3	3	6	7	12	9	5.2	12.3
23-Jul-07	7	6	5	A	9	16	11	10	12	10	11	11	12	17	7	6	5	6	6	5	6	10	6	5	8.6	16.8
24-Jul-07	4	3	A	6	7	10	10	7	5	5	4	4	5	4	4	3	4	3	3	2	3	2	2	3	4.5	10.3
25-Jul-07	2	A	6	4	5	6	9	12	7	4	2	2	2	2	1	2	2	1	2	1	3	18	18	15	5.6	17.9
26-Jul-07	A	16	18	12	11	15	20	16	16	14	6	4	3	3	4	3	3	2	4	7	11	6	5	A	9.1	19.6
27-Jul-07	7	5	6	9	7	12	21	24	11	9	7	4	3	2	2	2	4	3	4	7	7	11	A	14	7.9	24.0
28-Jul-07	17	14	13	12	9	7	11	9	6	4	3	3	3	2	3	8	3	2	3	4	6	A	12	9	7.0	17.3
29-Jul-07	6	6	4	3	3	5	5	3	3	3	2	2	3	2	2	2	2	4	3	4	A	6	4	3	3.5	6.5
30-Jul-07	3	2	2	2	3	6	17	8	6	6	4	4	3	4	4	4	5	4	4	A	9	6	8	4	5.2	16.6
31-Jul-07	4	3	3	4	5	12	17	26	8	4	5	6	6	5	5	6	5	5	A	9	8	6	5	4	7.0	25.6
Hourly Avg	6.6	7.2	7.5	6.7	7.5	11.9	13.4	11.3	7.8	5.1	4.4	4.2	3.7	3.5	3.0	3.7	3.4	3.8	4.0	5.0	7.0	7.7	7.7	7.4		
Hourly Max	17.3	17.1	18.2	13.0	15.5	35.3	25.7	25.6	16.3	14.3	10.8	13.1	12.5	16.8	6.8	9.5	6.9	11.2	12.0	15.0	15.8	17.7	17.9	15.1		

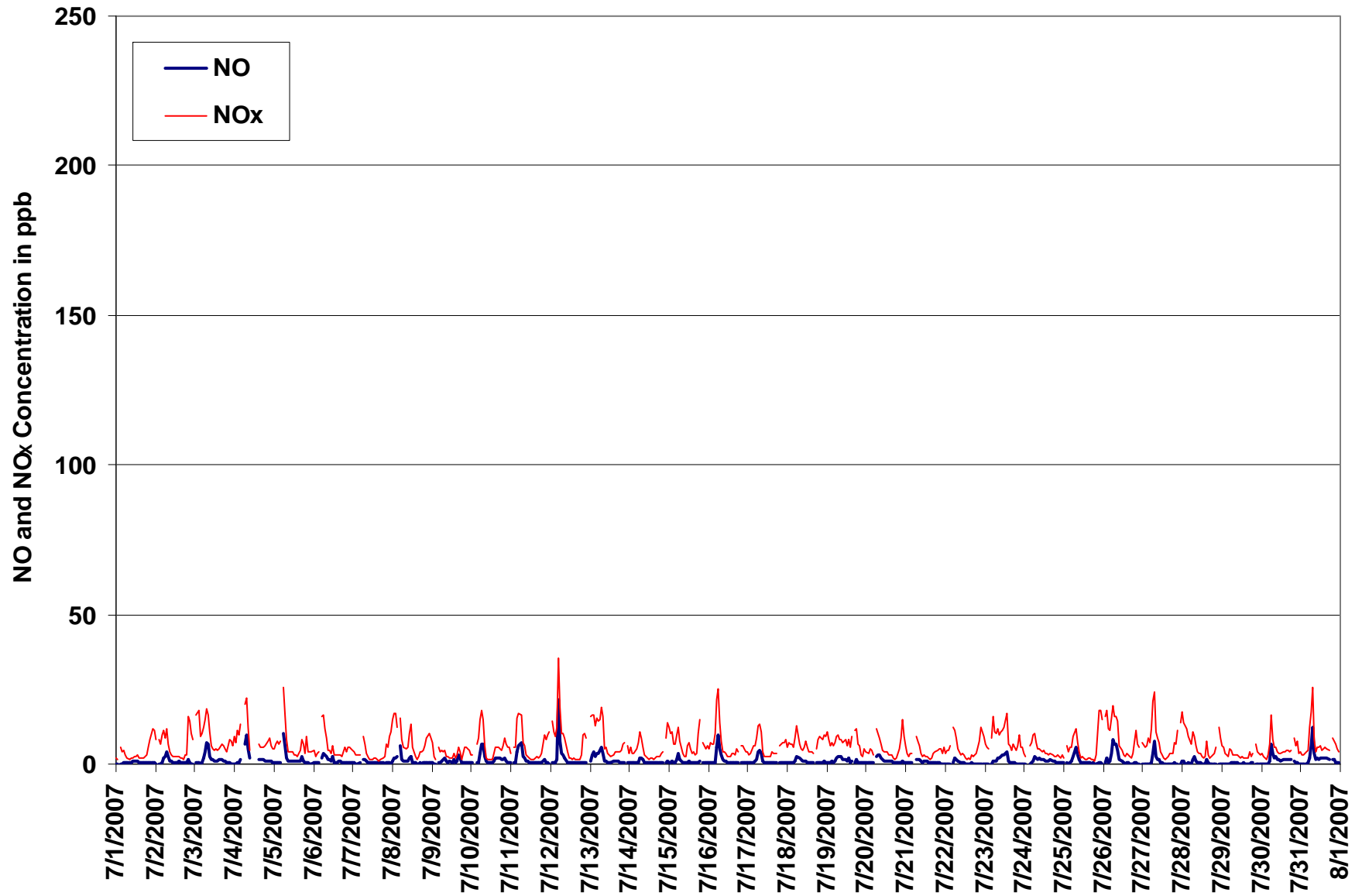


Figure 5. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

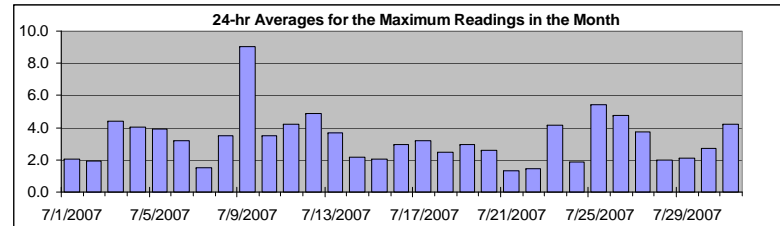
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	65.9	ppb	9-Jul	16:00 17:00
Maximum 24-hr Value:	9.0	ppb	9-Jul	



AIC Time:	0 hrs	Operational Time:	706 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	94.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	21.6	11.0	3.7	1.7	0.9	0.3	0.1	3.3 ppb	1.7 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jul-07	1	1	A	0	1	7	2	1	1	1	2	2	2	2	2	1	1	2	2	2	1	1	12	3	2.0	11.7
2-Jul-07	1	A	0	1	2	3	4	6	4	2	2	2	2	2	2	1	1	1	2	1	4	2	1	1	1.9	5.9
3-Jul-07	A	2	1	1	2	5	21	20	18	6	3	3	2	3	3	3	3	2	2	2	1	1	1	1	4.4	20.6
4-Jul-07	1	1	2	1	3	A	11	18	8	5	C	C	C	C	A	4	5	4	3	2	2	3	1	1	4.1	17.9
5-Jul-07	1	1	1	4	5	A	20	11	4	3	3	3	4	4	3	3	4	5	4	1	4	1	0	0	3.9	20.3
6-Jul-07	0	0	2	0	A	5	5	5	4	2	3	2	29	2	1	3	3	1	1	1	1	1	0	0	3.2	29.1
7-Jul-07	0	1	0	0	1	A	3	2	2	2	1	1	2	1	2	1	3	1	1	1	1	3	4	1	1.5	3.7
8-Jul-07	3	7	6	6	A	11	11	2	3	2	3	8	2	2	4	1	0	1	0	0	0	7	1	0	3.5	11.4
9-Jul-07	1	0	0	A	1	1	9	12	14	3	4	6	1	41	1	11	66	31	1	1	1	1	1	0	9.0	65.9
10-Jul-07	0	0	A	0	2	7	10	8	7	7	1	2	1	1	4	4	5	4	2	4	4	3	1	1	3.5	9.9
11-Jul-07	0	A	0	1	15	12	20	4	5	3	2	2	1	1	7	1	2	2	3	4	8	1	1	0	4.2	19.8
12-Jul-07	A	1	3	1	3	45	15	5	4	4	2	2	1	1	1	2	4	3	4	3	1	1	A	7	4.9	44.9
13-Jul-07	2	7	7	8	7	6	7	7	8	1	2	1	1	1	2	2	2	2	1	1	1	1	A	7	3.7	8.2
14-Jul-07	0	0	0	0	0	2	4	3	2	1	1	1	0	1	1	1	1	1	2	5	4	A	2	15	2.2	14.7
15-Jul-07	2	1	2	1	1	4	8	2	1	1	1	3	1	1	1	1	2	1	5	5	A	1	1	0	2.0	7.6
16-Jul-07	0	0	0	0	1	14	16	9	6	4	2	1	2	2	1	1	1	1	1	A	0	0	1	0	2.9	16.2
17-Jul-07	0	0	0	0	21	3	9	6	6	1	1	4	1	2	1	1	2	1	A	1	2	7	1	1	3.2	20.8
18-Jul-07	2	1	1	3	1	5	14	3	2	2	2	2	1	1	0	1	2	A	1	1	1	1	7	2	2.5	13.9
19-Jul-07	1	1	1	3	2	2	3	8	9	11	3	3	2	4	1	2	A	1	6	1	2	1	0	0	2.9	11.5
20-Jul-07	0	0	0	0	0	A	6	6	6	5	5	3	3	2	2	1	1	1	1	2	5	1	4	2	2.6	6.0
21-Jul-07	1	0	0	0	0	A	3	3	2	2	1	2	2	2	1	1	2	2	1	1	0	0	0	0	1.3	3.5
22-Jul-07	0	0	1	0	A	2	8	3	3	1	2	1	0	1	1	0	1	1	1	1	0	3	1	2	1.5	7.9
23-Jul-07	0	1	0	A	1	4	2	5	6	5	4	4	27	21	4	1	1	2	1	3	1	0	0	0	4.1	27.3
24-Jul-07	0	0	A	0	1	2	4	3	4	3	2	3	2	2	2	2	3	2	2	1	1	0	0	1	1.9	4.0
25-Jul-07	0	A	0	0	1	3	6	55	22	11	7	2	3	2	1	1	2	1	3	2	1	2	1	0	5.4	54.6
26-Jul-07	A	3	7	2	5	8	12	15	10	8	6	8	3	1	4	3	2	1	3	3	1	1	0	A	4.8	15.3
27-Jul-07	1	3	3	1	3	2	8	20	15	5	12	4	3	1	1	1	1	1	1	1	0	0	A	0	3.8	20.3
28-Jul-07	4	2	0	2	1	2	4	4	2	1	2	1	1	1	1	7	2	1	3	3	1	A	1	1	2.0	6.7
29-Jul-07	1	4	1	0	11	4	1	1	6	2	1	1	2	4	1	2	2	2	1	4	A	0	0	0	2.1	10.8
30-Jul-07	0	0	0	0	1	4	10	8	4	4	4	3	3	2	3	3	3	2	3	A	2	1	1	0	2.7	10.4
31-Jul-07	0	0	0	0	1	8	10	21	6	4	3	4	8	4	5	5	4	4	A	2	3	1	2	1	4.2	21.4
Hourly Avg	0.9	1.5	1.5	1.4	3.3	6.6	8.5	9.0	6.3	3.6	2.9	2.7	3.9	3.8	2.1	2.3	4.2	2.7	2.0	2.2	1.9	1.5	1.6	1.5		
Hourly Max	4.2	7.5	6.6	8.2	20.8	44.9	20.6	54.6	21.6	11.5	11.6	7.8	29.1	41.1	7.5	10.6	65.9	30.7	6.1	4.9	7.8	6.7	11.7	14.7		

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

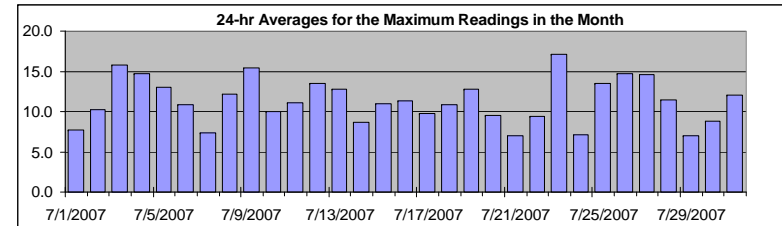
Oxides of Nitrogen (NO_x)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	76.9	ppb	25-Jul	7:00 8:00
Maximum 24-hr Value:	17.1	ppb	23-Jul	

AIC Time:	0 hrs	Operational Time:	706 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	94.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	44.5	25.0	13.7	8.9	5.9	3.7	2.9	11.3 ppb	8.9 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jul-07	4	5	A	10	6	16	6	3	3	3	4	5	5	6	4	4	4	5	5	5	9	12	34	21	7.7	33.7
2-Jul-07	12	A	11	7	14	18	12	14	10	6	5	6	6	5	6	4	5	3	6	5	26	26	18	11	10.2	26.2
3-Jul-07	A	28	22	13	14	20	42	37	36	18	11	8	7	10	9	8	12	10	7	6	10	12	13	12	15.8	41.9
4-Jul-07	13	11	19	16	22	A	27	36	18	9	C	C	C	C	A	13	12	10	10	9	11	16	8	6	14.6	35.7
5-Jul-07	6	11	11	11	17	A	39	24	13	8	8	8	9	10	8	11	13	15	17	9	22	17	8	6	13.0	39.3
6-Jul-07	9	4	8	6	A	21	20	17	13	9	9	8	47	5	8	8	8	5	8	8	7	9	8	8	10.8	46.8
7-Jul-07	8	6	5	4	6	A	15	9	6	6	3	3	5	4	6	3	7	3	5	8	12	11	16	16	7.4	16.2
8-Jul-07	19	23	21	20	A	21	21	9	8	8	14	23	8	7	7	4	5	6	5	7	8	15	12	11	12.2	23.4
9-Jul-07	12	5	3	A	14	6	21	22	20	7	8	6	4	51	4	33	74	23	3	8	8	8	8	6	15.4	73.9
10-Jul-07	5	5	A	9	14	20	22	19	14	6	3	4	4	3	9	10	11	9	9	12	13	14	8	8	10.0	22.3
11-Jul-07	5	A	8	11	32	26	25	10	12	9	6	4	3	3	11	4	6	4	5	11	20	10	13	14	11.0	32.2
12-Jul-07	A	16	18	12	17	60	31	14	12	13	8	4	3	4	4	4	5	8	8	12	18	12	12	A	13.4	59.9
13-Jul-07	18	21	20	21	20	19	19	24	29	7	9	5	5	5	5	7	7	7	6	8	8	9	A	13	12.8	28.9
14-Jul-07	6	10	4	6	8	10	18	14	9	4	5	4	3	5	4	3	4	4	6	13	9	A	13	35	8.6	35.4
15-Jul-07	17	12	14	10	10	14	19	10	5	5	5	9	12	8	6	7	8	7	21	27	A	13	7	8	10.9	26.9
16-Jul-07	7	9	9	8	14	34	36	24	14	9	7	5	6	6	5	5	6	11	11	A	10	9	10	5	11.3	35.5
17-Jul-07	5	5	5	8	16	13	21	17	16	6	4	11	5	7	4	7	9	6	A	9	11	16	10	12	9.8	20.6
18-Jul-07	8	10	12	14	9	19	27	10	8	7	7	10	11	6	6	6	5	A	8	12	12	11	18	12	10.8	27.5
19-Jul-07	15	15	9	12	10	13	14	20	15	19	12	11	9	12	9	16	A	16	25	11	12	5	5	8	12.7	25.1
20-Jul-07	8	6	9	6	4	A	17	16	15	13	12	8	8	7	6	6	4	3	6	9	12	12	20	13	9.6	19.6
21-Jul-07	10	5	4	4	6	A	13	12	10	7	5	6	6	5	5	4	5	9	7	9	9	7	6	9	7.0	12.9
22-Jul-07	5	7	10	10	A	16	21	14	11	6	8	5	3	3	3	2	5	4	6	8	15	18	18	16	9.4	21.0
23-Jul-07	10	10	7	A	13	28	17	21	23	17	13	15	54	56	16	8	8	14	11	10	13	13	8	8	17.1	56.1
24-Jul-07	5	4	A	9	12	13	13	11	11	9	7	8	8	5	5	5	7	5	5	5	4	4	4	6	7.1	12.7
25-Jul-07	4	A	9	7	9	12	15	77	31	19	11	5	10	5	3	4	5	4	6	4	11	21	22	19	13.5	76.9
26-Jul-07	A	18	24	15	20	19	25	29	22	21	15	15	8	5	10	9	6	4	10	12	21	9	8	A	14.7	28.6
27-Jul-07	11	11	12	13	11	20	29	45	22	18	32	11	11	5	5	5	5	6	6	12	10	17	A	19	14.6	44.7
28-Jul-07	23	16	16	18	13	11	22	14	8	6	6	5	5	3	7	21	6	4	8	12	8	A	18	13	11.5	23.1
29-Jul-07	8	14	7	5	5	10	6	4	14	6	4	4	7	8	4	5	5	8	5	10	A	9	7	6	7.0	13.8
30-Jul-07	5	3	2	3	5	13	23	17	10	8	10	7	7	6	6	8	7	6	8	A	14	11	16	6	8.8	23.4
31-Jul-07	7	5	4	6	8	22	25	39	14	8	10	10	24	9	11	11	9	9	A	12	11	8	9	7	12.0	38.8
Hourly Avg	9.5	10.4	10.8	10.1	12.4	19.0	21.3	20.3	14.5	9.5	8.6	7.9	9.9	9.3	6.5	8.0	9.1	7.5	8.4	9.7	12.3	12.2	12.3	11.5		
Hourly Max	23.1	28.1	23.6	20.8	32.2	59.9	41.9	76.9	35.7	21.4	31.6	23.4	53.8	56.1	15.6	33.3	73.9	22.6	25.1	26.9	26.0	26.2	33.7	35.4		

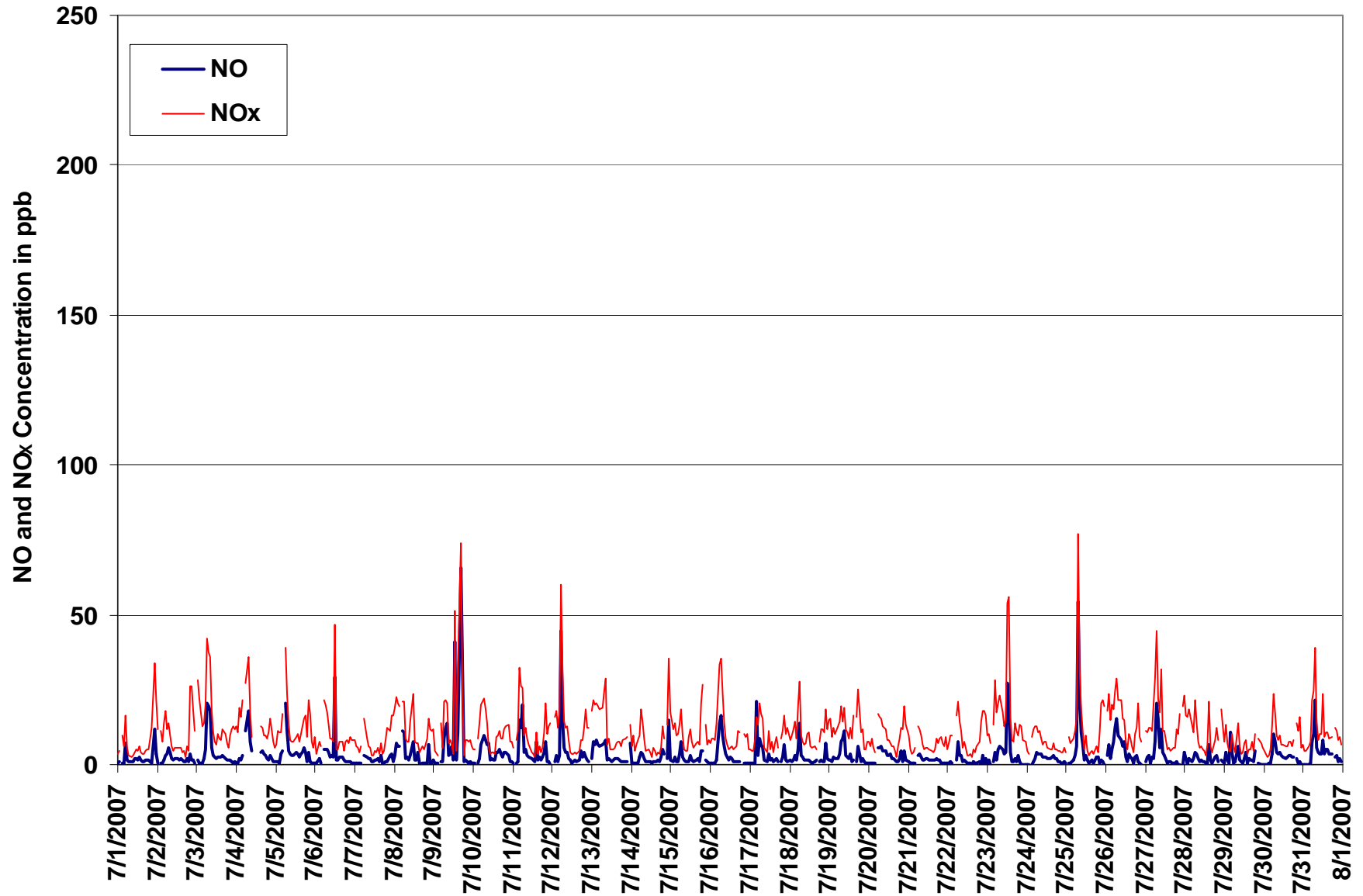


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Henry Pirker Ozone Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

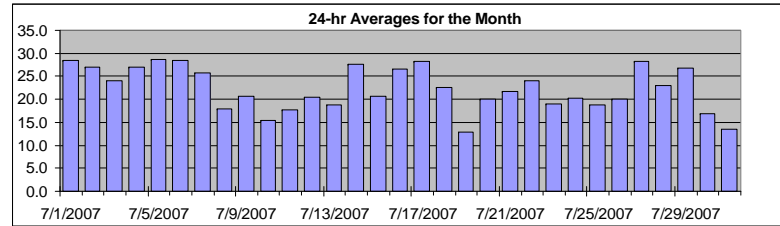
Ozone (O₃)

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	44.9 ppb	16-Jul	15:00 16:00
Maximum 24-hr Average:	28.7 ppb	5-Jul	

AIC Time:	34 hrs	Operational Time:	708 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	40.6	36.6	28.4	22.8	15.5	8.1	4.1	22.3 ppb	22.8 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	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-Jul-07	27	26	A	25	24	22	25	29	30	31	31	31	32	32	33	34	34	35	34	32	28	24	19	18	28.5	35.0	
2-Jul-07	21	A	22	21	17	16	19	20	23	28	32	33	34	35	37	36	35	34	33	32	22	23	24	24	27.0	36.7	
3-Jul-07	A	13	11	15	16	14	14	12	18	23	29	32	35	36	36	34	32	28	29	29	28	25	22	22	24.1	36.0	
4-Jul-07	18	18	12	13	13	A	13	15	20	26	30	33	35	37	37	37	38	38	39	38	32	27	27	25	27.0	38.9	
5-Jul-07	23	18	11	12	12	A	9	16	28	33	33	32	34	36	38	38	38	33	32	39	31	40	39	38	28.7	39.6	
6-Jul-07	32	30	27	25	A	18	18	25	29	33	35	39	39	C	C	A	32	30	29	27	28	26	23	23	28.4	38.8	
7-Jul-07	23	23	23	22	22	A	20	23	25	26	28	28	29	30	31	32	32	32	32	29	25	22	19	15	25.6	32.5	
8-Jul-07	7	5	5	4	A	4	14	16	17	18	17	14	20	24	30	32	29	28	28	25	25	20	16	15	17.9	32.4	
9-Jul-07	14	18	17	A	18	18	18	19	20	21	23	24	25	25	25	25	26	26	26	23	18	16	16	15	20.7	26.0	
10-Jul-07	16	15	A	14	11	8	7	11	17	21	22	22	21	20	18	16	17	17	17	16	12	12	13	13	15.5	22.1	
11-Jul-07	14	A	12	11	6	7	10	16	19	23	23	23	23	23	24	25	25	24	23	21	17	17	15	12	17.8	24.8	
12-Jul-07	A	7	8	8	5	4	10	16	19	25	29	28	31	28	28	28	28	29	29	29	25	19	18	A	20.5	30.9	
13-Jul-07	7	3	3	4	4	7	11	18	26	26	28	26	25	25	23	24	26	27	27	24	21	21	A	23	18.7	28.0	
14-Jul-07	26	24	25	24	24	22	19	22	27	33	36	34	34	34	34	33	33	33	31	28	26	A	22	13	27.6	36.2	
15-Jul-07	11	10	6	11	9	9	11	19	24	27	27	26	25	26	32	35	33	30	21	15	A	20	26	25	20.8	34.8	
16-Jul-07	26	21	18	15	12	8	9	15	18	23	25	29	32	35	41	45	37	38	35	A	31	32	33	32	26.5	44.9	
17-Jul-07	29	26	23	19	16	12	11	15	20	29	34	37	39	41	39	35	36	38	A	39	28	33	29	23	28.3	41.0	
18-Jul-07	19	15	15	12	13	15	13	18	22	25	31	37	34	35	40	34	31	A	26	23	17	17	13	11	22.5	40.5	
19-Jul-07	8	7	9	5	8	7	6	7	7	10	13	12	14	18	20	18	A	18	15	18	16	19	20	19	12.8	20.4	
20-Jul-07	18	17	16	14	13	A	12	14	17	21	25	26	26	25	25	25	26	27	27	27	23	16	8	10	19.9	27.0	
21-Jul-07	11	13	16	13	15	A	15	18	20	23	24	24	24	24	25	26	27	24	25	26	26	26	29	26	21.8	28.8	
22-Jul-07	28	24	23	20	A	14	13	18	24	28	32	31	29	28	28	29	29	30	28	26	23	22	13	14	24.0	31.8	
23-Jul-07	15	16	15	A	16	11	16	15	15	17	15	17	20	19	26	26	28	25	25	26	20	18	20	14	18.9	27.9	
24-Jul-07	13	17	A	14	13	13	14	18	20	21	23	26	25	23	23	24	24	23	23	23	22	21	21	19	20.1	26.2	
25-Jul-07	19	A	15	14	13	14	14	14	17	20	22	23	24	24	24	24	24	24	25	25	25	22	10	8	9	18.7	24.8
26-Jul-07	A	7	3	6	8	5	6	9	12	16	21	25	27	30	31	31	32	33	34	31	25	23	24	A	20.0	33.8	
27-Jul-07	24	23	21	17	19	17	11	12	18	24	31	36	38	40	41	41	42	41	41	31	31	25	A	22	28.2	42.0	
28-Jul-07	11	4	11	10	9	15	10	12	20	24	31	34	39	40	36	29	34	35	34	32	27	A	20	14	23.1	40.0	
29-Jul-07	12	20	25	27	26	23	25	26	27	29	32	33	35	34	34	34	34	34	30	27	23	A	20	21	20	26.9	34.5
30-Jul-07	18	17	16	17	16	12	8	13	15	16	18	20	20	21	21	20	20	20	18	A	16	15	14	16	16.9	21.4	
31-Jul-07	16	16	15	15	14	10	10	9	15	16	16	15	15	15	15	14	14	13	A	13	11	11	10	11	13.4	16.4	
Hourly Avg	18.0	16.3	15.1	14.7	14.0	12.5	13.3	16.4	20.3	23.7	26.3	27.4	28.5	28.8	29.7	29.4	29.8	28.8	28.0	26.6	23.3	21.3	20.1	18.7			
Hourly Max	32.3	30.1	26.5	26.9	25.7	23.5	25.1	28.5	30.2	33.1	36.2	38.8	39.2	41.0	40.9	44.9	42.0	40.7	40.6	38.6	31.7	39.6	39.0	37.7			

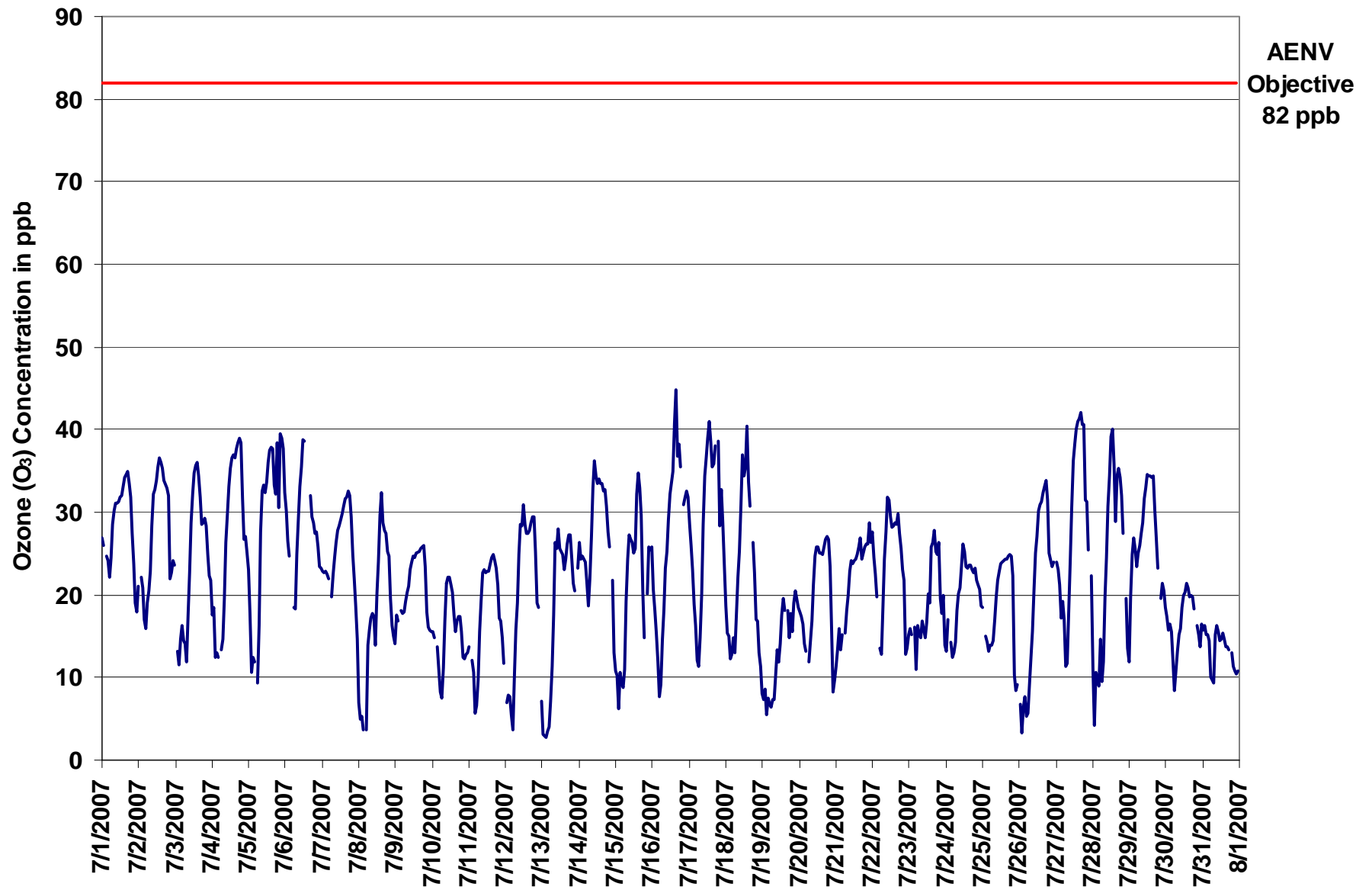


Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

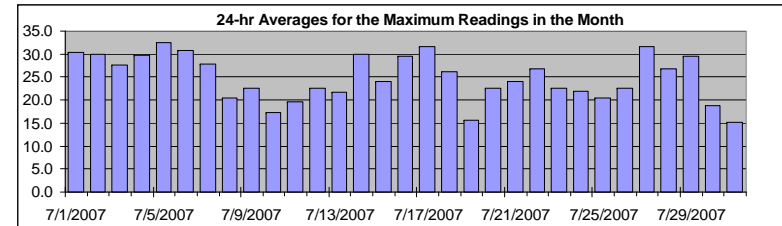
Ozone (O₃)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	46.3	ppb	16-Jul	15:00 16:00
Maximum 24-hr Value:	32.5	ppb	5-Jul	

AIC Time:	0 hrs	Operational Time:	708 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	95.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	43.1	39.6	31.0	24.8	18.2	10.9	6.9	24.9 ppb	24.8 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jul-07	28	27	A	26	26	24	27	30	31	32	32	32	34	33	35	35	36	37	36	34	32	27	23	23	30.4	36.9
2-Jul-07	25	A	24	23	20	19	22	22	26	31	34	35	35	37	39	38	38	35	35	34	29	32	30	25	29.9	38.6
3-Jul-07	A	23	14	18	19	19	18	15	24	28	32	34	37	38	38	37	35	33	32	31	31	28	26	24	27.6	38.5
4-Jul-07	21	21	17	17	18	A	17	18	24	30	32	35	37	38	38	39	41	40	41	41	35	28	28	26	29.8	41.4
5-Jul-07	24	23	13	14	14	A	15	22	34	35	35	34	35	38	39	40	40	39	42	40	46	43	42	32.5	45.8	
6-Jul-07	35	32	30	27	A	23	21	30	31	36	38	40	A	C	A	35	32	31	29	29	28	26	25	30.8	40.4	
7-Jul-07	25	24	25	24	25	A	23	25	26	28	29	29	30	32	32	33	34	34	34	32	29	26	22	20	27.8	33.8
8-Jul-07	11	8	11	4	A	4	17	17	18	19	20	16	26	27	33	35	31	30	29	27	27	24	18	19	20.5	34.7
9-Jul-07	17	20	20	A	20	19	19	21	22	22	25	25	26	26	26	27	27	27	27	26	24	18	17	17	22.5	27.3
10-Jul-07	16	16	A	15	15	11	9	12	21	22	23	23	22	22	20	18	18	18	19	19	14	15	14	15	17.3	23.2
11-Jul-07	15	A	13	12	9	10	14	18	22	24	24	24	24	24	25	26	26	25	25	24	19	19	16	14	19.7	26.0
12-Jul-07	A	9	10	9	7	6	13	18	21	28	30	30	33	32	29	29	29	30	30	31	30	22	20	A	22.7	32.9
13-Jul-07	14	5	6	11	8	9	18	25	31	27	30	27	26	27	25	26	28	29	29	27	23	22	A	28	21.7	31.1
14-Jul-07	28	26	26	26	26	24	22	25	31	36	37	37	35	36	35	35	34	34	34	30	29	A	24	18	29.8	37.2
15-Jul-07	14	12	8	12	11	12	17	23	27	29	28	30	27	31	35	36	36	32	25	21	A	29	30	28	24.0	36.2
16-Jul-07	28	24	21	19	16	13	13	17	22	25	28	31	33	38	45	46	43	41	37	A	34	37	35	33	29.5	46.3
17-Jul-07	30	27	24	23	19	14	14	17	26	33	38	40	41	43	41	38	38	41	A	41	36	38	32	27	31.5	42.7
18-Jul-07	23	18	18	15	17	19	16	22	26	28	36	41	39	38	43	40	33	A	29	28	21	19	19	15	26.2	42.7
19-Jul-07	12	9	11	8	10	10	9	11	9	14	17	15	15	22	22	22	A	21	20	19	19	22	22	21	15.6	22.4
20-Jul-07	20	19	21	17	15	A	14	17	21	24	27	27	27	27	26	27	27	28	28	29	29	22	14	12	22.6	29.3
21-Jul-07	15	16	18	15	18	A	18	20	23	26	25	25	25	26	26	27	28	28	29	28	29	28	31	29	24.0	31.0
22-Jul-07	29	28	25	22	A	15	17	21	29	31	33	34	31	30	31	31	31	32	30	28	26	25	18	19	26.7	34.2
23-Jul-07	21	19	18	A	18	17	20	19	18	22	19	20	21	22	31	29	30	31	31	31	24	21	24	17	22.6	31.0
24-Jul-07	16	19	A	16	15	16	16	22	22	22	26	27	27	25	25	25	25	24	24	24	23	22	21	20	21.9	27.4
25-Jul-07	20	A	16	16	15	16	16	16	20	22	24	24	25	25	25	25	25	26	26	26	26	16	10	11	20.5	26.0
26-Jul-07	A	10	6	8	10	8	7	12	15	20	23	28	30	33	32	36	34	35	35	36	30	25	27	A	22.7	36.0
27-Jul-07	25	25	23	19	22	22	15	17	22	30	35	38	40	42	43	43	44	44	43	40	38	31	A	27	31.6	44.2
28-Jul-07	20	7	17	13	12	17	12	15	24	28	34	36	43	43	40	36	36	37	37	35	33	A	23	17	26.7	43.5
29-Jul-07	14	28	28	28	28	27	28	27	29	32	33	35	36	36	36	36	36	35	31	26	A	22	23	23	29.4	36.3
30-Jul-07	20	19	17	18	18	14	10	16	17	18	21	21	22	23	23	21	22	21	20	A	19	18	18	18	18.8	23.0
31-Jul-07	17	17	17	16	16	13	11	14	17	17	17	16	16	17	16	15	15	15	A	16	13	12	12	12	15.2	17.5
Hourly Avg	20.8	18.9	17.7	16.9	16.6	15.3	16.4	19.5	23.5	26.4	28.6	29.4	30.4	31.0	31.8	31.7	31.9	31.1	30.6	29.5	27.2	25.0	23.0	21.6		
Hourly Max	34.6	31.5	29.6	28.5	27.7	26.6	27.8	30.2	33.8	36.5	38.1	40.8	43.5	42.7	44.9	46.3	44.2	44.2	42.8	42.3	39.5	45.8	42.9	42.3		

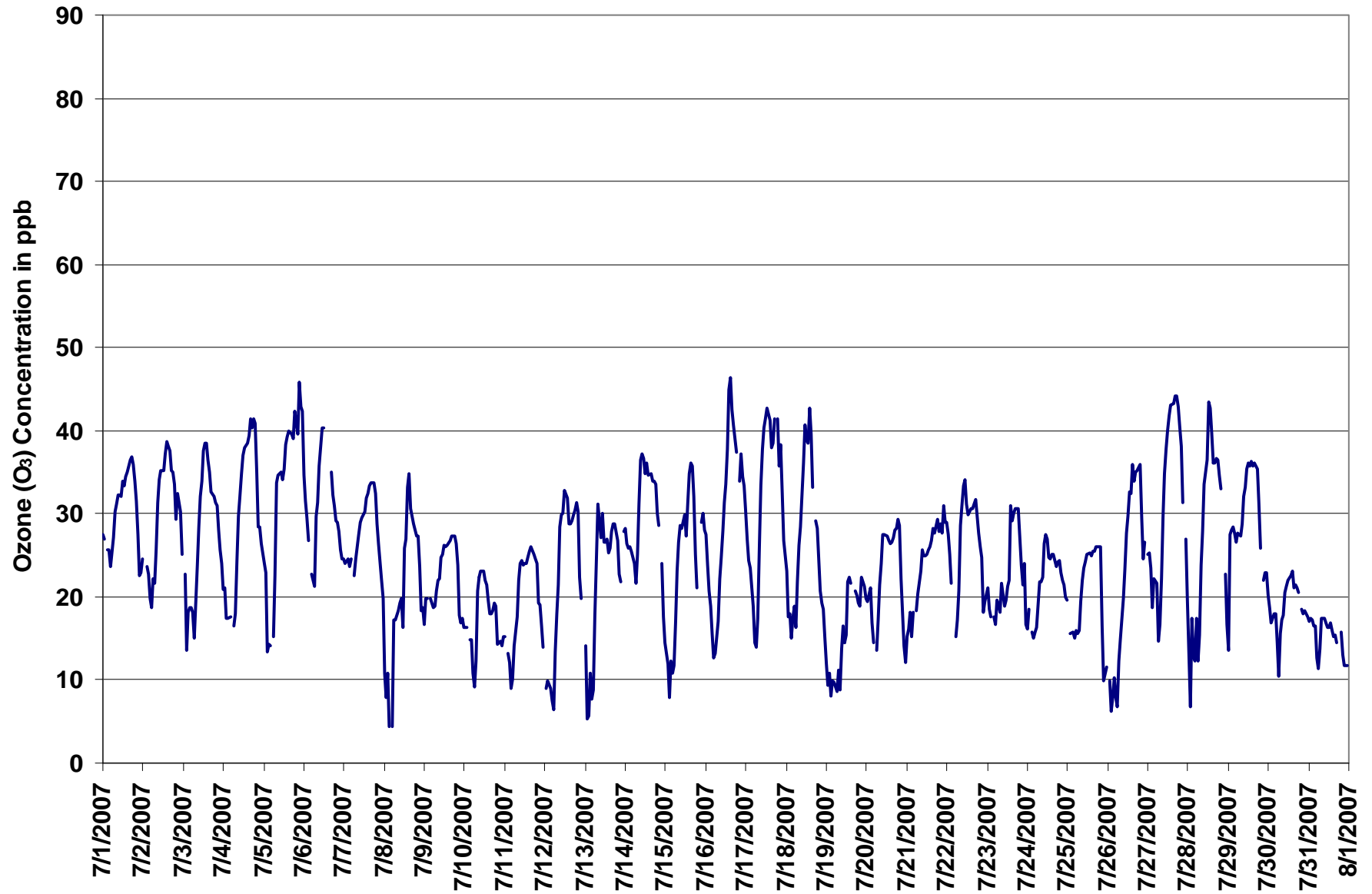
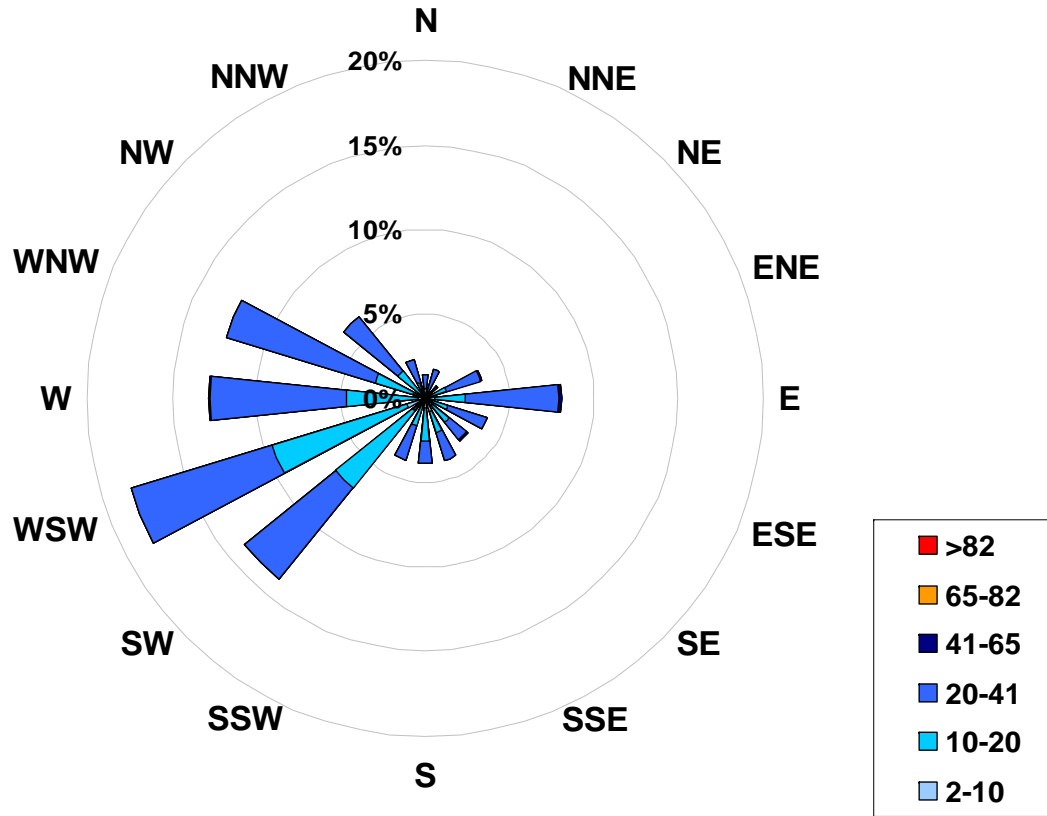


Figure 8. PASZA - Henry Pirker Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	< 10		55
10	to 20		240
20	to 41		409
41	to 65		4
65	to 82		0
	> 82		0
Total Non-Zero Values			708

PASZA - Henry Pirker Ozone Eight Hour Average Summary

Station: Henry Pirker
 Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

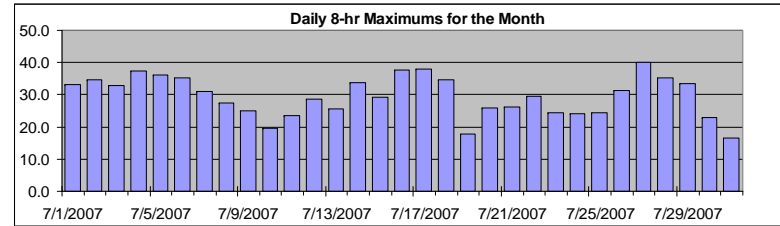
Ozone (O₃)

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	40.0	ppb	27-Jul	18:00	19:00		

Percentile	99	95	75	50	25	5	1
	37.4	34.7	26.9	22.1	16.6	10.8	7.1



Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Daily Maximum	
1-Jul-07	27	27	26	26	26	25	25	25	26	26	27	28	29	30	31	32	32	33	33	33	33	32	30	28		33.2	
2-Jul-07	26	25	23	22	20	19	19	20	20	21	22	24	26	28	30	32	34	35	35	34	33	31	30	28		34.6	
3-Jul-07	27	24	21	19	18	17	15	14	14	15	18	20	22	25	27	30	32	33	33	32	32	30	29	27		32.8	
4-Jul-07	25	24	22	20	18	17	16	15	15	16	18	21	25	26	29	32	34	36	37	37	37	36	34	33		37.4	
5-Jul-07	31	29	25	22	19	18	16	14	15	17	20	23	26	28	31	34	35	35	35	36	35	36	36	36		36.1	
6-Jul-07	35	35	34	33	33	30	27	25	25	25	26	28	30	31	N	N	N	N	N	N	N	N	28	27		35.4	
7-Jul-07	26	25	25	24	23	23	22	22	22	23	24	24	25	26	27	29	29	30	31	31	30	29	28	26		30.9	
8-Jul-07	23	19	16	13	11	8	8	8	9	11	13	14	15	17	19	22	23	24	25	25	27	28	27	25	23		27.5
9-Jul-07	21	20	19	18	17	17	17	17	18	19	20	20	21	22	23	23	24	25	25	25	25	24	23	22	21		25.1
10-Jul-07	19	18	17	16	15	13	12	12	12	13	14	15	16	18	19	20	20	19	19	18	17	16	15	15		19.6	
11-Jul-07	14	14	13	12	11	11	10	11	11	13	14	16	18	20	22	23	23	24	24	23	23	22	21	19		23.6	
12-Jul-07	18	16	14	12	10	8	8	8	10	12	14	17	20	23	25	27	28	28	29	29	28	27	26	25		28.7	
13-Jul-07	22	19	15	11	8	7	6	7	10	12	15	18	21	23	25	25	25	26	25	25	25	24	24	24		25.6	
14-Jul-07	24	24	24	24	24	24	23	23	23	24	26	27	28	30	32	33	34	34	33	32	31	31	29	26		33.8	
15-Jul-07	23	20	17	14	12	11	10	11	12	15	17	19	21	23	26	28	29	29	28	27	27	26	25	24		29.2	
16-Jul-07	23	22	22	22	20	19	17	15	14	15	16	17	20	23	27	31	33	35	37	38	37	37	36	34		37.6	
17-Jul-07	33	31	29	28	26	24	21	19	18	18	20	22	25	28	32	34	36	37	38	38	37	35	34	32		38.1	
18-Jul-07	30	27	25	22	20	18	16	15	15	17	19	22	24	27	30	32	33	35	34	32	29	27	23	20		34.7	
19-Jul-07	16	15	13	11	10	8	8	7	7	7	8	9	10	11	13	14	15	16	16	17	17	18	18	18		17.8	
20-Jul-07	18	18	18	17	17	17	16	15	15	15	17	18	20	21	22	24	25	25	26	26	26	24	22	20		25.9	
21-Jul-07	19	17	16	14	13	12	13	15	16	17	18	20	21	22	23	24	25	25	25	25	25	26	26	26		26.2	
22-Jul-07	26	26	26	25	25	23	21	20	19	20	21	23	24	26	27	29	29	30	29	28	27	27	25	23		29.5	
23-Jul-07	21	19	18	17	16	14	15	15	15	15	15	15	16	17	18	19	21	22	23	24	24	24	24	22		24.5	
24-Jul-07	20	19	18	17	16	15	14	15	16	16	17	19	20	21	23	23	24	24	24	24	24	23	23	22	22		24.0
25-Jul-07	21	21	20	19	17	16	15	15	15	15	16	17	18	20	21	22	23	24	24	24	24	22	20	19		24.3	
26-Jul-07	18	15	12	9	7	7	6	6	7	8	10	13	15	18	21	24	27	29	30	31	31	30	29	29		31.3	
27-Jul-07	28	26	25	23	22	21	19	18	17	17	19	21	23	26	30	34	37	39	40	39	39	37	36	33		40.0	
28-Jul-07	29	24	19	16	13	12	11	10	11	14	16	19	23	26	29	32	33	35	35	35	34	33	30	28		35.2	
29-Jul-07	25	23	21	21	20	21	21	23	25	26	27	28	29	30	31	32	33	33	33	32	31	29	27	25		33.4	
30-Jul-07	23	21	19	18	18	17	16	15	14	14	14	15	15	17	18	19	20	20	20	20	19	19	18	17		22.9	
31-Jul-07	16	16	16	16	15	15	14	13	13	13	13	13	13	13	14	14	15	15	14	14	14	13	12	12		16.5	

Hourly Max 35.4 35.0 34.3 32.5 32.8 29.8 26.9 25.2 25.7 26.5 27.1 28.3 29.6 31.2 31.7 34.2 36.7 38.8 40.0 39.4 38.5 37.0 36.1 36.1

PASZA - Henry Pirker Carbon Monoxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

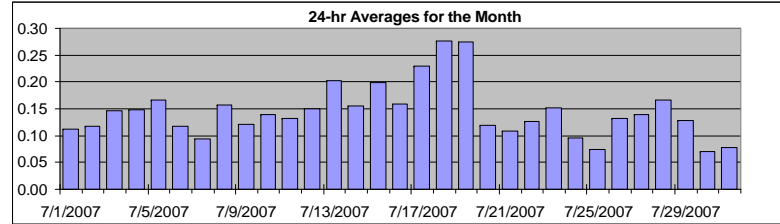
HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Number of 1-hr Exceedances:					0				
Maximum 1-hr Average:					0.4 ppm 19-Jul 0:00 1:00				
Maximum 24-hr Value:					0.3 ppm 18-Jul				



AIC Time:		33 hrs							Operational Time:							708 hrs						
Calibration Time:		3 hrs							AMD Operational Uptime:							100.0%						
Percentile	99	95	75	50	25	5	1	Average							Median							
	0.3	0.3	0.2	0.1	0.1	0.1	0.0	0.1 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 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-Jul-07	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	0.1	0.1	0.2	0.2	0.11	0.17
2-Jul-07	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	0.1	0.1	0.2	0.2	0.2	0.12	0.17
3-Jul-07	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	C	C	C	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.15	0.20
4-Jul-07	0.1	0.1	0.1	0.1	0.1	A	0.1	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	0.15	0.20
5-Jul-07	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17	0.22
6-Jul-07	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.12	0.17
7-Jul-07	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	0.2	0.2	0.2	0.09	0.22
8-Jul-07	0.2	0.3	0.3	0.2	A	0.2	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	0.2	0.2	0.2	0.2	0.2	0.16	0.30
9-Jul-07	0.2	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	0.2	0.2	0.1	0.1	0.12	0.16
10-Jul-07	0.1	0.1	A	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	0.1	0.2	0.2	0.2	0.2	0.14	0.18
11-Jul-07	0.1	A	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.13	0.23
12-Jul-07	A	0.3	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	A	0.15	0.25
13-Jul-07	0.2	0.3	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	A	0.2	0.20	0.31
14-Jul-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	A	0.2	0.2	0.15	0.24
15-Jul-07	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	A	0.2	0.1	0.1	0.20	0.31
16-Jul-07	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.16	0.23
17-Jul-07	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	A	0.3	0.3	0.3	0.3	0.23	0.29
18-Jul-07	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	A	0.3	0.3	0.3	0.4	0.3	0.28	0.36
19-Jul-07	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.27	0.37
20-Jul-07	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.12	0.26
21-Jul-07	0.2	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	0.1	0.11	0.16
22-Jul-07	0.1	0.1	0.1	0.1	A	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	0.2	0.2	0.2	0.13	0.19
23-Jul-07	0.1	0.2	0.1	A	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.15	0.26
24-Jul-07	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	0.1	0.1	0.1	0.1	0.10	0.14
25-Jul-07	0.1	A	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.2	0.07	0.25
26-Jul-07	A	0.2	0.3	0.1	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	0.1	0.1	0.1	0.2	0.2	0.2	A	0.13	0.25
27-Jul-07	0.1	0.1	0.1	0.1	0.1	0.2	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	0.2	0.2	0.2	A	0.2	0.14	0.25
28-Jul-07	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	A	0.2	0.17	0.30
29-Jul-07	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	0.1	A	0.1	0.1	0.1	0.13	0.18
30-Jul-07	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	0.0	0.1	A	0.1	0.1	0.1	0.07	0.11
31-Jul-07	0.1	0.1	0.1	0.0	0.0	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	A	0.1	0.1	0.1	0.1	0.08	0.12
Hourly Avg	0.16	0.17	0.15	0.14	0.14	0.16	0.17	0.16	0.15	0.14	0.13	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.12	0.13	0.15	0.16	0.17	0.17	0.17
Hourly Max	0.37	0.36	0.34	0.35	0.35	0.36	0.37	0.37	0.30	0.26	0.25	0.27	0.26	0.28	0.25	0.26	0.26	0.26	0.26	0.31	0.33	0.32	0.33	0.36	0.34	

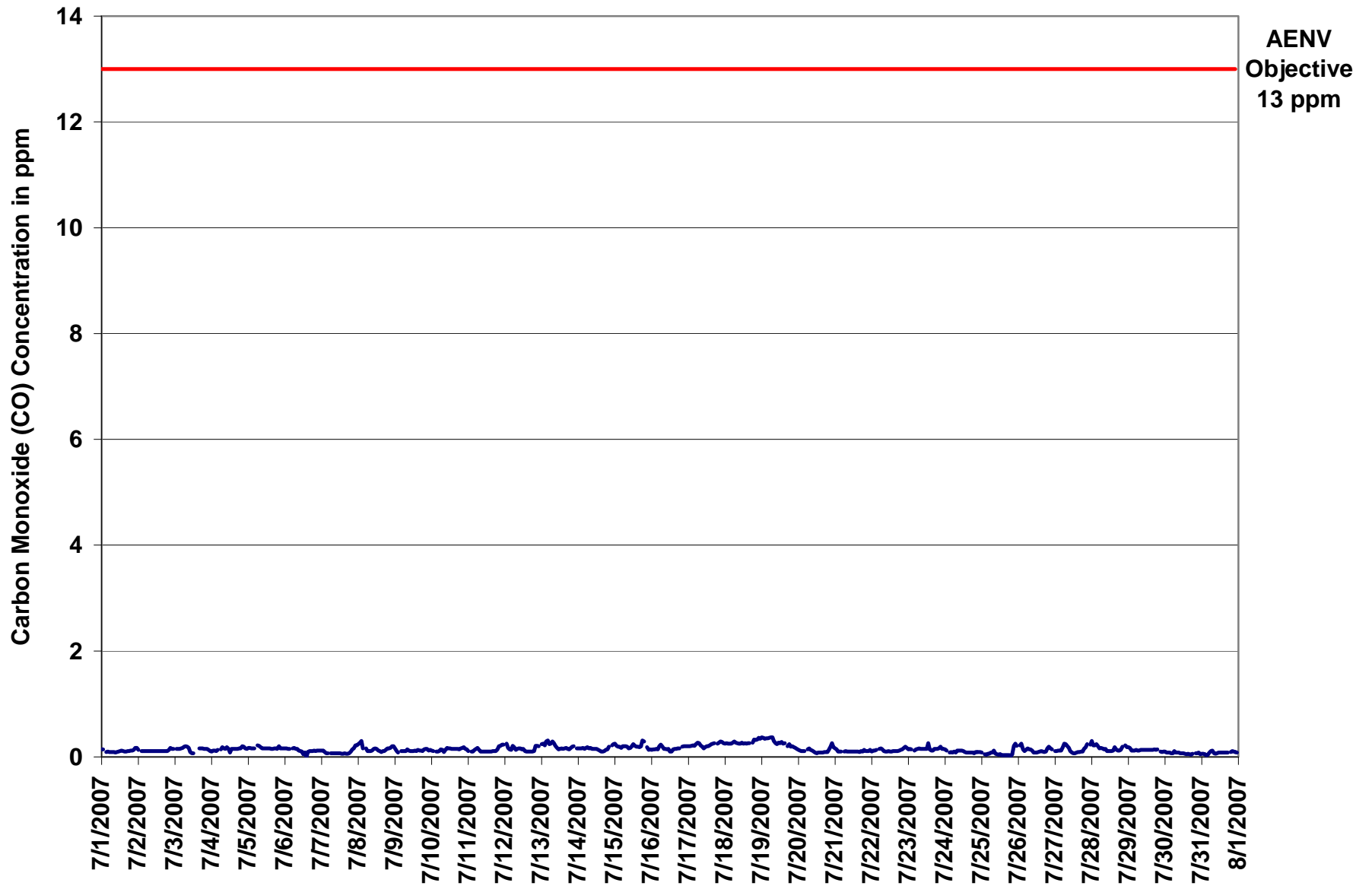


Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

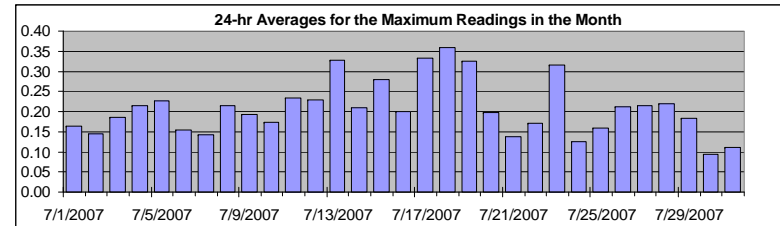
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	2.6 ppm	23-Jul	13:00 14:00
Maximum 24-hr Value:	0.4 ppm	18-Jul	



AIC Time:	0 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	95.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.7	0.4	0.2	0.2	0.1	0.1	0.1	0.2 ppm	0.2 ppm

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Jul-07	0.1	0.2	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.4	0.3	0.16	0.40	
2-Jul-07	0.2	A	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.3	0.2	0.2	0.15	0.26	
3-Jul-07	A	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.1	0.1	0.1	C	C	C	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.31	
4-Jul-07	0.2	0.2	0.2	0.2	0.2	A	0.2	0.3	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.4	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.21	0.44	
5-Jul-07	0.3	0.3	0.2	0.2	0.2	A	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.2	0.2	0.23	0.36	
6-Jul-07	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.3	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.15	0.25	
7-Jul-07	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	0.3	0.2	0.4	0.5	0.14	0.47	
8-Jul-07	0.3	0.5	0.6	0.3	A	0.3	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.55	
9-Jul-07	0.2	0.2	0.1	A	0.1	0.1	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.5	0.1	0.2	0.2	0.2	0.2	0.2	0.19	0.50	
10-Jul-07	0.2	0.1	A	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17	0.23	
11-Jul-07	0.2	A	0.2	0.1	0.2	0.2	1.4	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.4	0.3	0.23	1.37	
12-Jul-07	A	0.3	0.3	0.2	0.2	0.3	0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.5	0.3	0.2	A	0.23	0.79	
13-Jul-07	0.3	0.3	0.3	1.3	0.9	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	A	0.3	0.33	1.28	
14-Jul-07	0.3	0.2	0.2	0.3	0.2	0.3	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	0.3	0.3	A	0.4	0.3	0.21	0.40	
15-Jul-07	0.4	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.6	0.4	A	0.2	0.2	0.2	0.2	0.28	0.63	
16-Jul-07	0.2	0.2	0.2	0.2	0.1	0.3	0.3	0.2	0.2	0.3	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.20	0.33	
17-Jul-07	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	A	0.3	0.4	1.6	0.6	0.3	0.33	1.56	
18-Jul-07	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.3	0.3	0.3	0.6	0.3	0.3	0.3	0.3	0.3	A	0.3	0.4	0.4	0.4	0.7	0.4	0.36	0.66	
19-Jul-07	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	A	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.32	0.44	
20-Jul-07	0.2	0.2	0.1	0.1	0.1	A	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6	0.3	0.1	0.2	0.2	0.6	0.3	0.20	0.62	
21-Jul-07	0.2	0.2	0.1	0.2	0.1	A	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	0.2	0.2	0.2	0.2	0.14	0.25	
22-Jul-07	0.1	0.2	0.2	0.2	A	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.17	0.32
23-Jul-07	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.6	0.6	0.2	0.1	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.32	2.60	
24-Jul-07	0.1	0.1	A	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.12	0.17	
25-Jul-07	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	1.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.16	1.27
26-Jul-07	A	0.5	0.4	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.3	0.4	0.3	0.2	0.2	A	0.21	0.46	
27-Jul-07	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.5	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.4	A	0.3	0.21	0.47	
28-Jul-07	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.1	0.2	0.2	0.2	A	0.3	0.3	0.22	0.37	
29-Jul-07	0.3	0.2	0.2	0.1	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	A	0.1	0.1	0.1	0.1	0.18	0.27	
30-Jul-07	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	A	0.1	0.1	0.1	0.1	0.1	0.09	0.13	
31-Jul-07	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	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.11	0.22	
Hourly Avg	0.21	0.23	0.20	0.21	0.19	0.22	0.28	0.21	0.24	0.19	0.16	0.17	0.16	0.25	0.17	0.18	0.16	0.19	0.20	0.21	0.23	0.27	0.25	0.22			
Hourly Max	0.41	0.50	0.55	1.28	0.87	0.41	1.37	0.54	1.27	0.36	0.28	0.59	0.30	2.60	0.64	0.37	0.44	0.62	0.63	0.42	0.51	1.56	0.66	0.47			

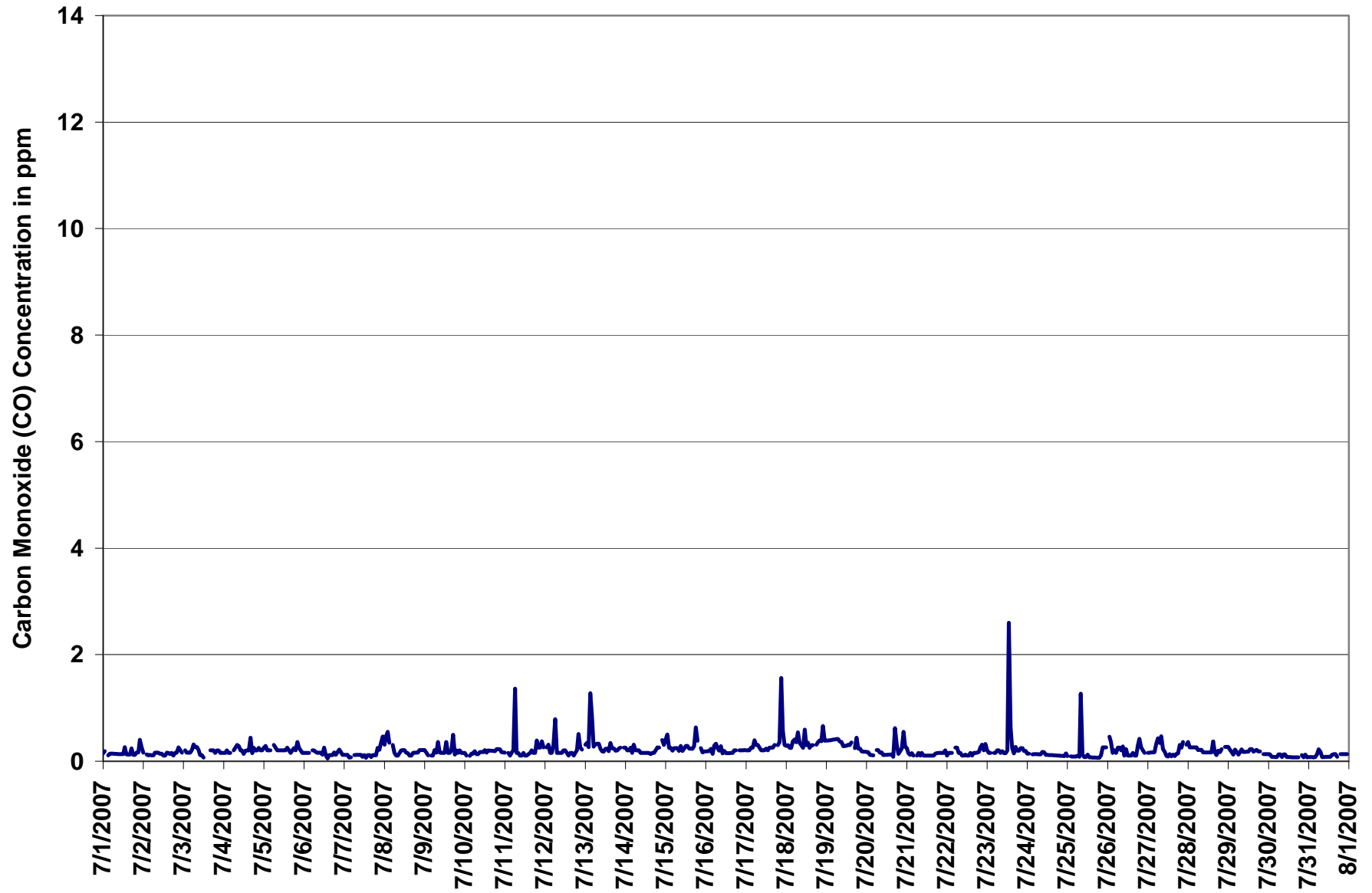
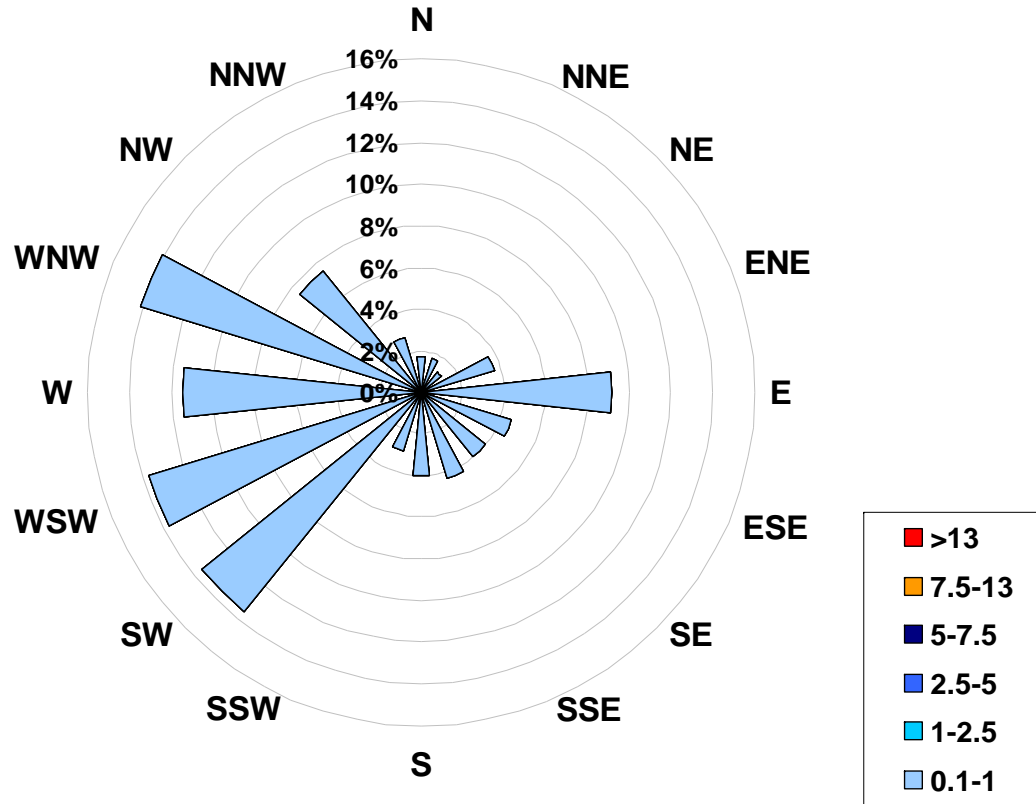


Figure 10. PASZA - Henry Pirker Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of CO in ppm			Frequency (hrs)
Range			
0.1	< 1		708
1	to 2.5		0
2.5	to 5		0
5	to 7.5		0
7.5	to 13		0
	> 13		0
Total Non-Zero Values			708

PASZA - Henry Pirker Carbon Monoxide Eight Hour Average Summary

Station: Henry Pirker
 Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

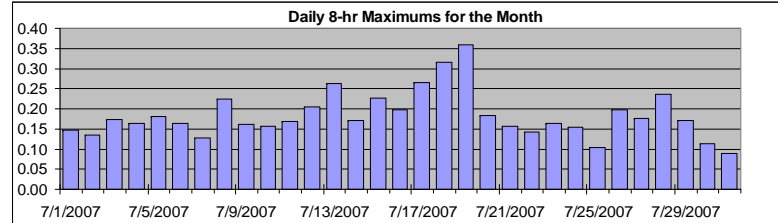
Carbon Monoxide (CO)

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	0.4 ppm 19-Jul 7:00 8:00

Percentile	99	95	75	50	25	5	1
	0.3	0.3	0.2	0.1	0.1	0.1	0.1



Status Flag Characters

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

Day	Mountain Standard Time																							Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Jul-07	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	0.15
2-Jul-07	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	0.14
3-Jul-07	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	0.1	0.1	N	N	N	N	N	N	N	N	0.2	0.1	0.17
4-Jul-07	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	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.17
5-Jul-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18
6-Jul-07	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	0.1	0.1	0.1	0.1	0.1	0.16
7-Jul-07	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	0.13
8-Jul-07	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	0.1	0.1	0.1	0.1	0.2	0.22
9-Jul-07	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	0.1	0.1	0.1	0.16
10-Jul-07	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	0.2	0.16
11-Jul-07	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	0.1	0.1	0.1	0.1	0.2	0.2	0.17
12-Jul-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.20
13-Jul-07	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26
14-Jul-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.17
15-Jul-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
16-Jul-07	0.2	0.2	0.2	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	0.2	0.2	0.2	0.2	0.20
17-Jul-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.27
18-Jul-07	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.32
19-Jul-07	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.36
20-Jul-07	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	0.1	0.1	0.1	0.1	0.1	0.18
21-Jul-07	0.1	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	0.1	0.1	0.1	0.16
22-Jul-07	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	0.14
23-Jul-07	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.17
24-Jul-07	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	0.1	0.1	0.1	0.1	0.1	0.16
25-Jul-07	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	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.10
26-Jul-07	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	0.1	0.1	0.1	0.1	0.1	0.20
27-Jul-07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.18
28-Jul-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.24
29-Jul-07	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	0.1	0.1	0.17
30-Jul-07	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	0.11
31-Jul-07	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	0.09

Hourly Max	0.33	0.34	0.34	0.35	0.35	0.35	0.36	0.36	0.35	0.34	0.33	0.32	0.30	0.29	0.28	0.27	0.26	0.26	0.26	0.27	0.28	0.29	0.30	0.32
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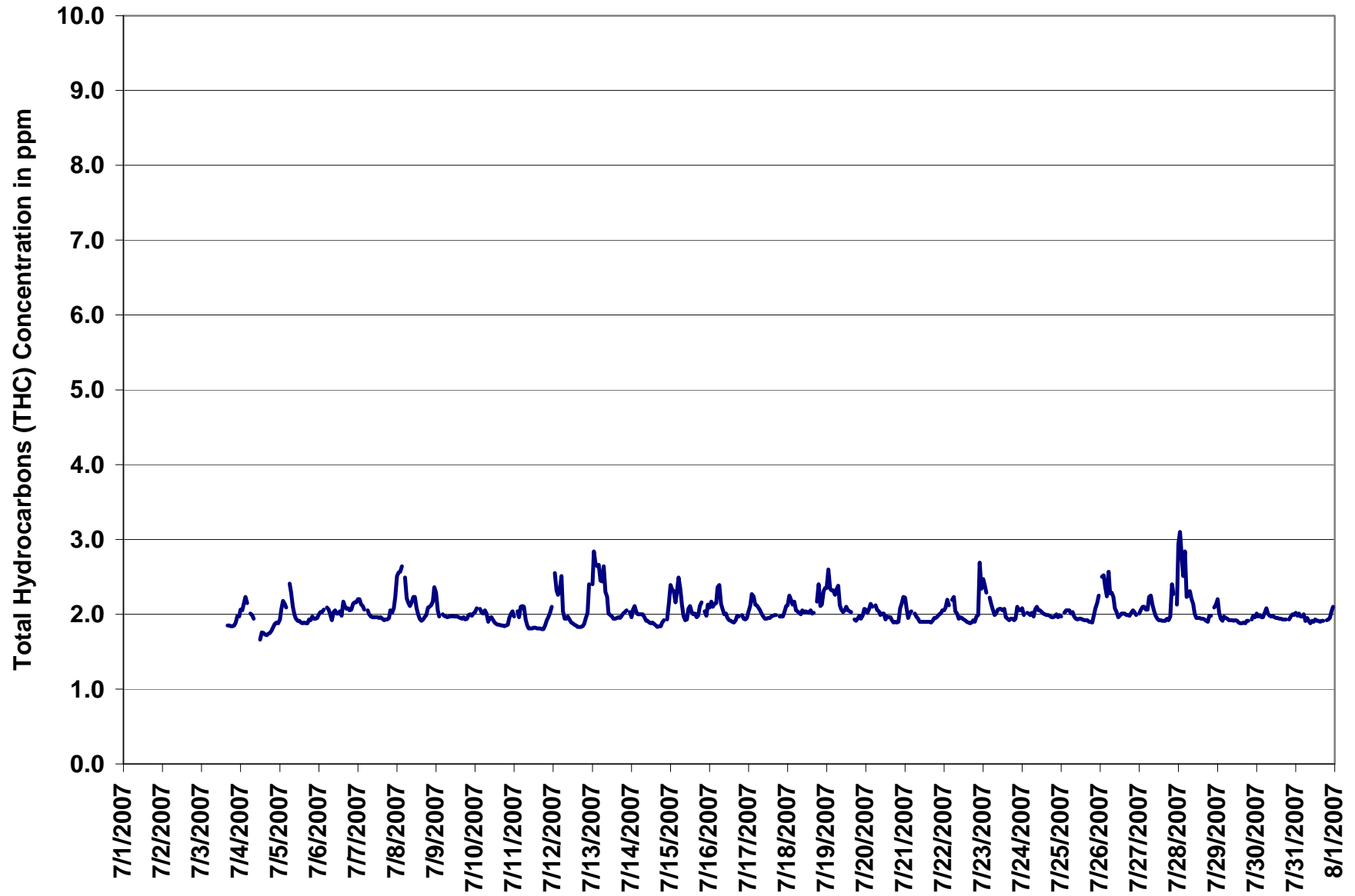


Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

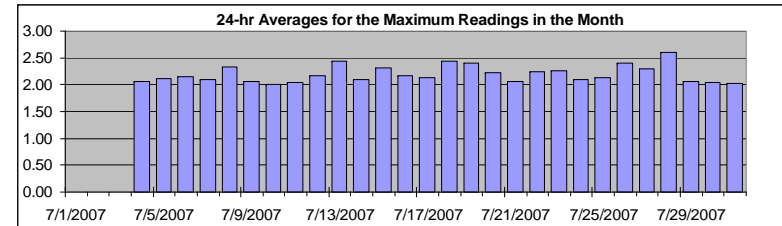
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Hydrocarbons (THC)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	4.7	ppm	28-Jul	2:00 3:00
Maximum 24-hr Value:	2.6	ppm	28-Jul	



AIC Time:	1 hrs	Operational Time:	647 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	88.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.6	2.9	2.2	2.1	2.0	1.9	1.8	2.2 ppm	2.1 ppm

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jul-07	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
2-Jul-07	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
3-Jul-07	N	N	N	N	N	N	N	N	N	N	C	C	C	C	C	A	1.9	1.9	1.9	1.9	1.9	2.0	2.2	2.0	N	2.19
4-Jul-07	2.5	2.5	2.8	2.9	2.4	A	2.1	2.1	2.0	C	C	C	1.8	1.8	1.8	1.8	2.0	1.8	1.8	1.8	1.9	1.9	1.9	1.9	2.07	2.87
5-Jul-07	2.0	2.3	2.3	2.2	2.2	A	2.6	2.4	2.2	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.6	2.1	2.0	2.0	2.11	2.56
6-Jul-07	2.1	2.1	2.1	2.1	A	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.2	2.1	2.1	2.5	2.3	2.2	2.2	2.15	2.45
7-Jul-07	2.2	2.3	2.2	2.2	2.2	A	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.3	2.1	2.2	2.6	2.10	2.57	
8-Jul-07	2.7	2.7	2.8	2.7	A	2.6	2.5	2.2	2.2	2.2	2.3	2.4	2.2	2.0	2.0	1.9	2.0	2.0	2.1	2.3	2.3	2.6	2.4	2.7	2.34	2.80
9-Jul-07	2.5	2.3	2.0	A	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.06	2.54	
10-Jul-07	2.1	2.2	A	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.1	2.01	2.21	
11-Jul-07	2.0	A	2.1	2.6	2.8	2.5	2.3	2.0	1.9	1.9	1.8	1.8	1.9	1.9	1.8	1.9	1.8	1.8	2.0	2.0	2.0	2.1	2.2	2.05	2.80	
12-Jul-07	A	2.8	2.6	2.4	2.5	2.9	2.2	2.0	2.0	2.2	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.2	2.7	A	2.17	2.87
13-Jul-07	2.8	4.0	3.0	2.9	3.1	3.4	2.6	2.8	2.5	2.3	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	A	2.3	2.44	3.95
14-Jul-07	2.4	2.5	2.2	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	A	2.0	3.3	2.10	3.33
15-Jul-07	3.3	2.5	2.5	2.3	2.6	2.7	2.5	2.3	2.1	2.0	2.2	2.3	2.2	2.1	2.0	2.1	2.0	2.1	2.5	2.3	A	2.1	2.1	2.3	2.31	3.28
16-Jul-07	2.2	2.3	2.2	2.2	2.2	2.6	2.7	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.2	A	2.2	2.0	2.0	2.3	2.17	2.73
17-Jul-07	2.2	2.4	2.5	2.5	2.2	2.2	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.1	2.0	2.1	2.2	2.14	2.52
18-Jul-07	2.7	2.6	2.3	2.2	2.4	2.1	2.1	2.1	2.1	2.2	2.1	2.2	2.3	2.1	2.2	2.1	2.1	A	2.6	4.3	2.2	2.2	3.5	3.3	2.43	4.30
19-Jul-07	3.0	3.2	2.8	2.9	3.0	2.7	2.6	2.6	2.3	2.1	2.1	2.1	2.4	2.2	2.2	2.2	A	2.1	2.1	2.2	2.2	2.0	2.2	2.2	2.41	3.23
20-Jul-07	2.3	2.2	2.3	3.0	2.3	A	2.2	2.2	2.1	2.1	2.3	2.4	2.0	2.0	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.8	2.3	2.4	2.22	2.99
21-Jul-07	2.5	2.2	2.1	2.1	2.1	A	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.1	2.0	2.1	2.1	2.2	2.1	2.06	2.49
22-Jul-07	2.1	2.1	2.6	2.3	A	2.3	2.3	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.2	2.6	3.4	3.3	2.23	3.40
23-Jul-07	3.4	2.9	2.7	A	2.4	2.3	2.2	2.1	2.1	2.2	2.2	2.3	2.1	2.3	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.2	2.2	2.25	3.38
24-Jul-07	2.2	2.1	A	2.1	2.1	2.0	2.1	2.1	2.1	2.4	2.1	2.2	2.1	2.1	2.1	2.1	2.0	2.1	2.0	2.0	2.1	2.2	2.0	2.1	2.10	2.41
25-Jul-07	2.1	A	2.1	2.2	2.1	2.2	2.1	2.1	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	3.0	2.3	2.3	2.5	2.14	3.02
26-Jul-07	A	3.2	3.1	3.1	2.8	3.7	2.6	2.5	2.4	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.2	2.1	2.1	2.0	A	2.40	3.66
27-Jul-07	2.1	2.1	2.2	2.2	2.1	2.2	2.6	2.4	2.3	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	3.6	3.7	A	2.7	2.29	3.75
28-Jul-07	4.3	3.6	4.7	4.2	3.6	2.4	2.5	2.4	2.3	2.2	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.0	2.4	2.2	A	2.4	2.3	2.60	4.69
29-Jul-07	2.5	2.1	2.0	2.0	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.1	2.0	A	2.0	2.5	2.1	2.05	2.54
30-Jul-07	2.2	2.0	2.1	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	A	2.0	2.1	2.1	2.1	2.05	2.23
31-Jul-07	2.1	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.1	2.1	2.2	2.03	2.21
Hourly Avg	2.49	2.52	2.47	2.45	2.38	N	2.27	2.19	2.12	2.08	2.06	2.06	2.03	2.01	2.00	1.99	1.99	1.99	2.04	2.13	2.19	2.23	2.27	2.36		
Hourly Max	4.32	3.95	4.69	4.21	3.58	3.66	2.73	2.84	2.47	2.41	2.33	2.42	2.41	2.28	2.20	2.22	2.19	2.23	2.55	4.30	3.57	3.75	3.51	3.33		

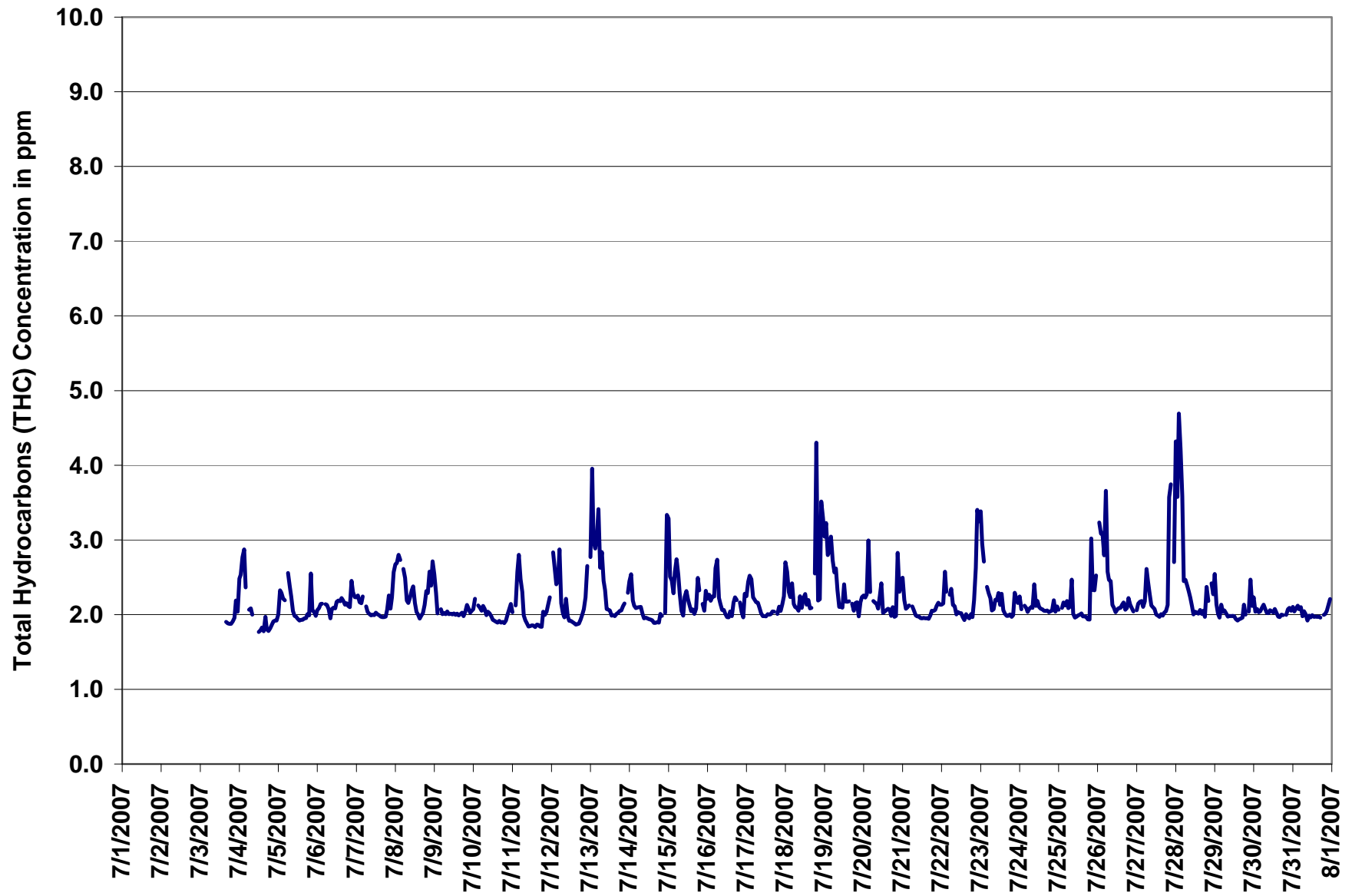
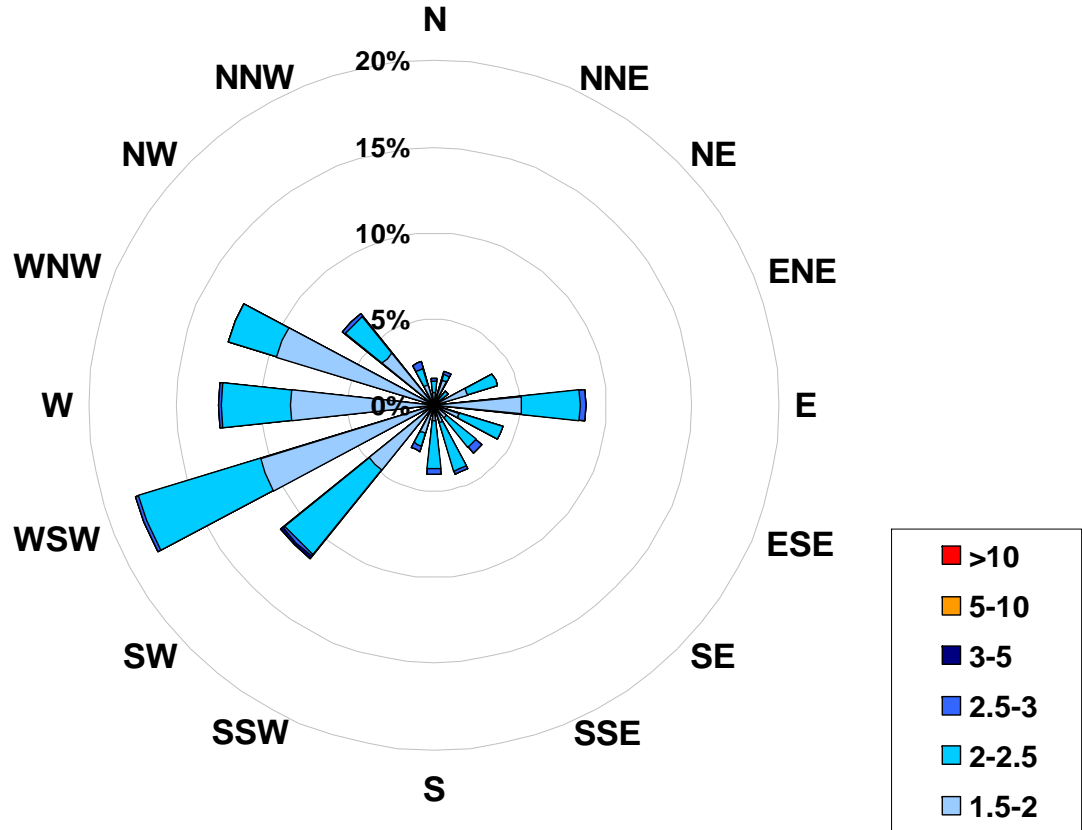


Figure 12. PASZA - Henry Pirker Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of THC in ppm			Frequency (hrs)
Range			
1.5	<	2	333
2	to	2.5	276
2.5	to	3	19
3	to	5	1
5	to	10	0
	>	10	0
Total Non-Zero Values			647

PASZA - Henry Pirker Total Reduced Sulphur Monthly Summary

HOURLY AVERAGE TABLE

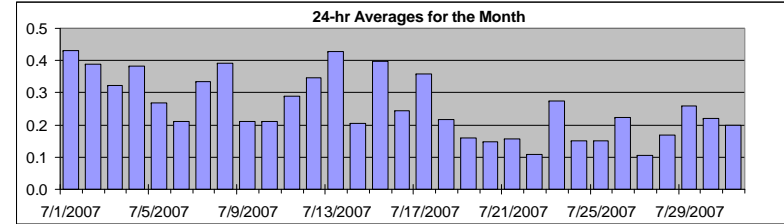
Total Reduced Sulphur (TRS)

Station: Henry Pirker
Station Owner: PASZA

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Maximum 1-hr Average:	1.5	ppb	1-Jul	1:00 2:00
Maximum 24-hr Value:	0.4	ppb	1-Jul	



AIC Time:	33 hrs	Operational Time:	701 hrs						
Calibration Time:	10 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.1	0.6	0.3	0.2	0.1	0.0	0.0	0.3 ppb	0.2 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	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-Jul-07	1:00	1	2	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.5
2-Jul-07	2:00	0	A	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.2
3-Jul-07	3:00	A	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.3	0.7
4-Jul-07	4:00	0	1	0	1	1	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.0
5-Jul-07	5:00	0	0	0	1	0	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9
6-Jul-07	6:00	0	1	1	1	A	1	1	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0
7-Jul-07	7:00	0	0	0	1	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.3	0.7
8-Jul-07	8:00	1	1	1	1	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.0
9-Jul-07	9:00	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
10-Jul-07	10:00	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	0.5
11-Jul-07	11:00	0	A	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7
12-Jul-07	12:00	A	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0.3	1.4
13-Jul-07	13:00	1	1	1	1	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.4	1.5
14-Jul-07	14:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.7
15-Jul-07	15:00	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.4	1.2
16-Jul-07	16:00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.2	0.6
17-Jul-07	17:00	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.4	1.0
18-Jul-07	18:00	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	0.2	0.4
19-Jul-07	19:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	C	C	0	0.2	0.3
20-Jul-07	20:00	0	0	0	0	0	A	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
21-Jul-07	21:00	0	0	0	0	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
22-Jul-07	22:00	0	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
23-Jul-07	23:00	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
24-Jul-07	0:00	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	0.4
25-Jul-07	1:00	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	0.5
26-Jul-07	2:00	A	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.6
27-Jul-07	3:00	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
28-Jul-07	4:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.5
29-Jul-07	5:00	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	0.3	0.5
30-Jul-07	6:00	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	0.2	0.4
31-Jul-07	7:00	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	0.2	0.5
Hourly Avg		0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3		
Hourly Max		1.5	1.5	0.7	0.7	1.2	1.5	1.1	0.8	0.5	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.5	1.4	1.0		

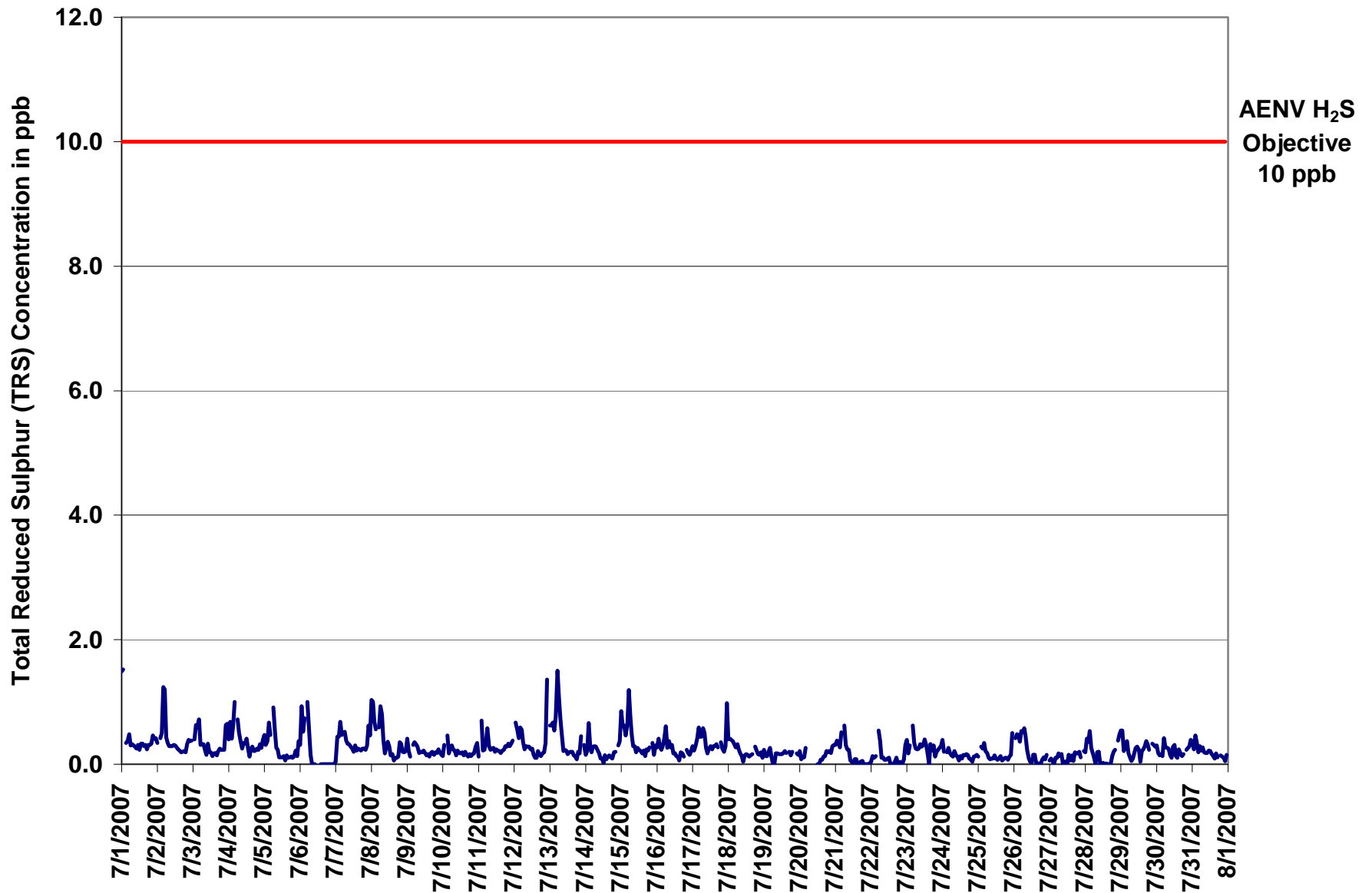


Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

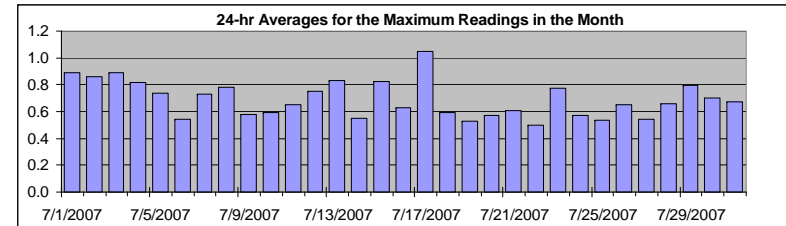
Total Reduced Sulphur (TRS)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	4.6	ppb	17-Jul	23:00 0:00
Maximum 24-hr Value:	1.0	ppb	17-Jul	

AIC Time:	1 hrs	Operational Time:	701 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	94.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.8	1.2	0.8	0.6	0.5	0.4	0.0	0.7 ppb	0.6 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jul-07	2	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	2.0
2-Jul-07	1	A	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.8
3-Jul-07	A	1	1	2	2	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	2	0.9	1.8
4-Jul-07	1	1	1	1	2	A	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0.8	1.6
5-Jul-07	1	1	1	1	1	A	2	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	0.7	1.5
6-Jul-07	1	2	1	2	A	2	1	1	0	0	0	C	C	C	1	0	0	0	0	0	0	0	0	0	0.5	1.9
7-Jul-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1
8-Jul-07	2	1	1	1	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	0.8	1.8
9-Jul-07	1	1	1	A	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1	0	0	1	0	1	0.6	1.0
10-Jul-07	0	1	A	1	1	1	1	1	1	0	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0.6	0.9
11-Jul-07	0	A	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0.6	1.1
12-Jul-07	A	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	1	1	0	1	1	1	2	A	0.8	2.3
13-Jul-07	1	1	1	1	2	2	2	1	1	1	1	1	1	1	0	1	0	0	1	0	1	1	A	1	0.8	2.1
14-Jul-07	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	0	1	0	1	A	1	1	0.6	1.0
15-Jul-07	1	1	1	1	2	2	1	1	1	1	1	1	0	1	0	0	1	1	1	1	A	1	0	1	0.8	1.8
16-Jul-07	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1	0	A	1	1	1	1	0.6	1.1
17-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	4	1	5	1.0	4.6
18-Jul-07	1	1	1	1	1	1	1	1	0	0	1	1	1	0	1	0	0	A	1	1	0	1	0	1	0.6	1.0
19-Jul-07	0	1	0	0	1	1	0	0	0	0	1	1	0	1	1	1	A	1	0	1	C	C	1	0	0.5	0.9
20-Jul-07	1	0	1	1	1	A	1	C	C	C	C	A	0	0	1	1	1	1	1	1	1	1	1	1	0.6	0.8
21-Jul-07	1	1	1	1	1	A	1	1	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0.6	1.0
22-Jul-07	1	1	1	0	A	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.9
23-Jul-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.4
24-Jul-07	1	1	A	1	1	1	1	1	0	0	0	1	1	0	1	0	1	0	0	1	0	0	1	1	0.6	1.0
25-Jul-07	1	A	1	1	1	0	1	0	1	1	0	1	0	0	0	1	1	0	0	0	0	1	1	1	0.5	0.8
26-Jul-07	A	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	1	1	1	A	0.6	1.0
27-Jul-07	0	0	1	1	1	0	1	1	1	0	0	1	0	1	0	0	0	1	1	1	1	1	A	1	0.5	0.7
28-Jul-07	1	1	1	1	1	1	1	0	1	1	1	0	0	1	0	0	0	1	1	1	1	A	1	1	0.7	1.3
29-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	1.2
30-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.7	1.0
31-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.7	0.9
Hourly Avg	0.8	0.9	0.9	0.9	1.0	0.9	0.9	0.7	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.7	0.7	0.9		
Hourly Max	2.0	1.9	1.5	1.8	1.8	2.1	1.7	1.2	1.0	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.9	0.8	0.8	1.0	0.8	4.0	2.3	4.6		

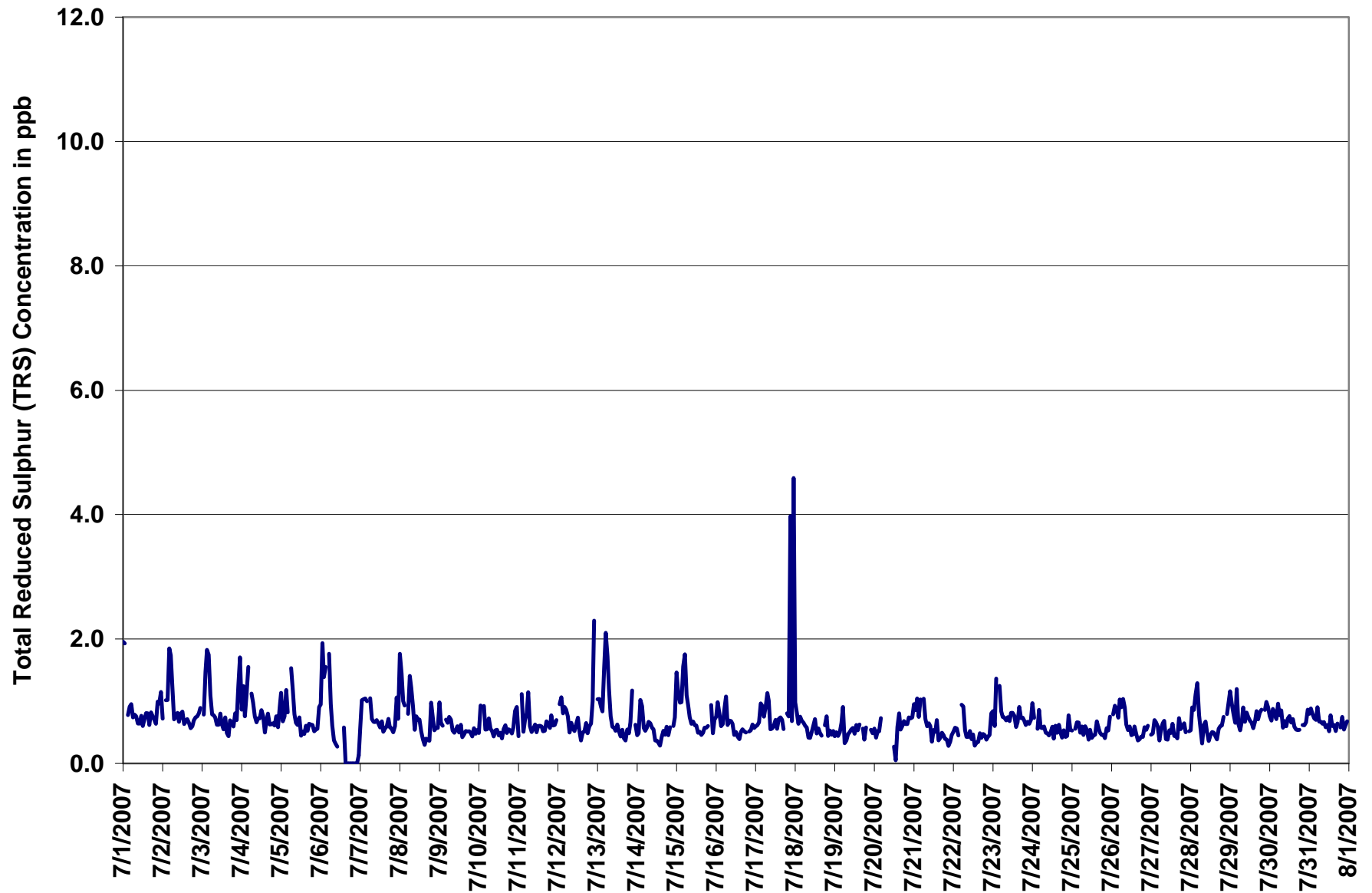
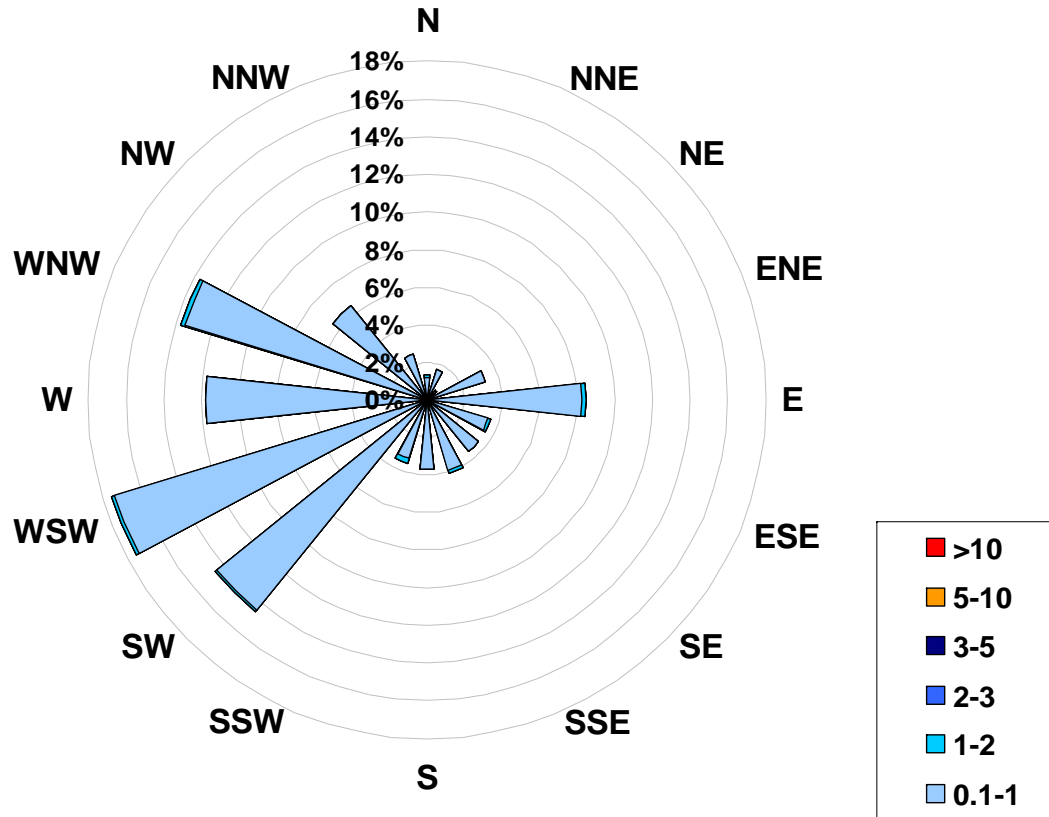


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of TRS in ppb Range			Frequency (hrs)
0.1	<	1	689
1	to	2	9
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			701

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

Station: Henry Pirker
Station Owner: PASZA

HOURLY AVERAGE TABLE

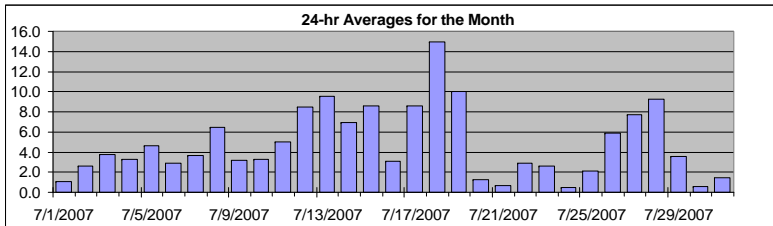
Particulate Matter (PM_{2.5})

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	30.3 µg/m ³ 18-Jul 19:00 20:00
Maximum 24-hr Value:	14.9 µg/m ³ 18-Jul

AIC Time:	0 hrs	Operational Time:	730 hrs							
Calibration Time:	0 hrs	AMD Operational Uptime:	98.1%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	19.8	15.2	6.7	3.3	1.2	0.0	0.0	4.8	3 µg/m ³	3.5 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	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-Jul-07	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	2	3	3	5	4	1.0	5.5	
2-Jul-07	2	2	2	2	3	4	3	4	3	2	2	0	2	0	1	2	2	3	3	4	4	4	4	5	2.6	4.6	
3-Jul-07	5	5	5	6	8	4	7	8	5	4	3	4	3	2	0	2	6	4	3	2	2	2	2	3.8	8.1		
4-Jul-07	2	2	3	3	5	6	6	7	6	2	0	1	1	3	2	0	1	0	5	5	6	4	5	3	3.3	6.5	
5-Jul-07	2	5	4	3	3	9	7	10	8	5	6	5	5	2	2	3	3	8	12	0	7	0	0	3	4.6	11.7	
6-Jul-07	3	2	3	3	1	3	3	2	1	0	0	0	1	0	D	3	3	7	6	5	6	5	4	3	2.9	7.1	
7-Jul-07	2	2	2	1	2	3	3	2	3	1	1	1	1	0	1	2	2	1	3	8	13	11	11	11	3.7	12.8	
8-Jul-07	13	13	15	12	10	7	4	3	2	5	11	13	5	2	0	0	3	4	3	6	4	7	5	8	6.5	15.2	
9-Jul-07	6	0	1	3	2	1	2	3	4	3	2	3	2	3	2	2	7	4	4	6	5	4	4	3	3.2	7.5	
10-Jul-07	2	3	2	2	3	4	11	7	4	1	1	1	1	3	2	2	1	3	2	4	7	5	3	4	3.3	11.1	
11-Jul-07	2	2	2	2	4	5	P	5	3	1	2	1	2	2	3	3	11	4	5	9	11	11	14	11	5.0	14.2	
12-Jul-07	13	11	5	8	8	10	11	11	16	17	12	5	7	3	0	2	3	2	2	5	13	14	12	15	8.5	16.6	
13-Jul-07	16	24	15	16	15	9	13	20	18	9	7	6	7	4	0	1	3	3	6	9	5	5	9	P	9.5	23.6	
14-Jul-07	7	5	4	3	4	9	9	11	11	5	5	4	4	11	3	3	4	5	8	9	20	5	6	10	6.9	20.3	
15-Jul-07	8	8	6	6	7	7	7	8	6	4	5	15	15	11	7	11	7	14	17	11	9	D	D	0	8.6	16.8	
16-Jul-07	0	0	0	0	0	4	4	5	2	1	3	0	D	1	2	4	7	5	7	6	7	2	4	5	3.1	7.4	
17-Jul-07	7	4	5	5	2	6	7	9	9	4	4	7	8	11	14	11	13	16	13	16	20	2	5	8	8.6	19.8	
18-Jul-07	3	3	9	7	8	8	12	13	11	14	17	23	20	21	21	18	14	16	18	30	19	19	18	15	14.9	30.3	
19-Jul-07	16	19	15	18	11	12	15	12	7	14	10	13	15	15	14	0	0	0	3	0	0	D	D	D	10.0	19.4	
20-Jul-07	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0	1	0	0	0	0	3	10	8	4	1.2	10.1	
21-Jul-07	0	0	0	1	0	0	1	1	2	0	0	0	0	0	1	0	0	3	2	3	1	0	0	2	0.7	2.7	
22-Jul-07	1	2	4	1	5	7	4	2	0	2	5	6	1	2	0	2	2	4	1	3	2	1	14	0	2.9	14.1	
23-Jul-07	1	4	3	0	3	2	0	3	4	3	1	5	0	5	0	5	2	8	6	0	1	4	0	2	2.6	8.1	
24-Jul-07	0	0	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0	2	1	0	1	1	1	1	0.5	1.7	
25-Jul-07	0	1	1	0	1	2	2	4	2	1	1	0	1	1	0	0	1	1	1	0	5	7	10	11	2.1	10.8	
26-Jul-07	10	11	6	5	2	4	5	7	6	7	4	3	6	6	8	7	2	1	4	6	13	9	6	5	5.9	13.3	
27-Jul-07	4	6	5	5	6	5	11	14	14	5	2	2	2	3	4	6	10	10	10	21	9	8	13	11	7.7	21.0	
28-Jul-07	18	15	9	17	18	8	11	9	6	10	2	7	7	6	8	16	4	0	2	12	14	4	8	12	9.3	17.9	
29-Jul-07	11	4	0	D	11	0	0	4	2	2	3	4	4	5	1	2	5	12	5	2	D	3	0	0	3.6	11.7	
30-Jul-07	0	0	D	D	D	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	1	1	0.6	4.4	
31-Jul-07	0	0	1	0	0	1	2	3	0	0	1	2	1	2	2	3	3	4	2	2	3	2	1	0	1.4	3.7	
Hourly Avg	5.0	5.0	4.3	4.5	4.7	4.5	5.3	5.9	5.1	4.0	3.6	4.2	4.0	4.1	3.4	3.6	3.7	4.7	5.1	6.1	7.1	5.4	6.0	5.4			
Hourly Max	17.9	23.6	15.4	17.6	17.9	12.0	15.3	19.7	18.1	16.6	17.1	22.8	19.8	21.1	21.3	18.0	14.4	16.2	17.6	30.3	20.3	18.9	17.7	15.2			

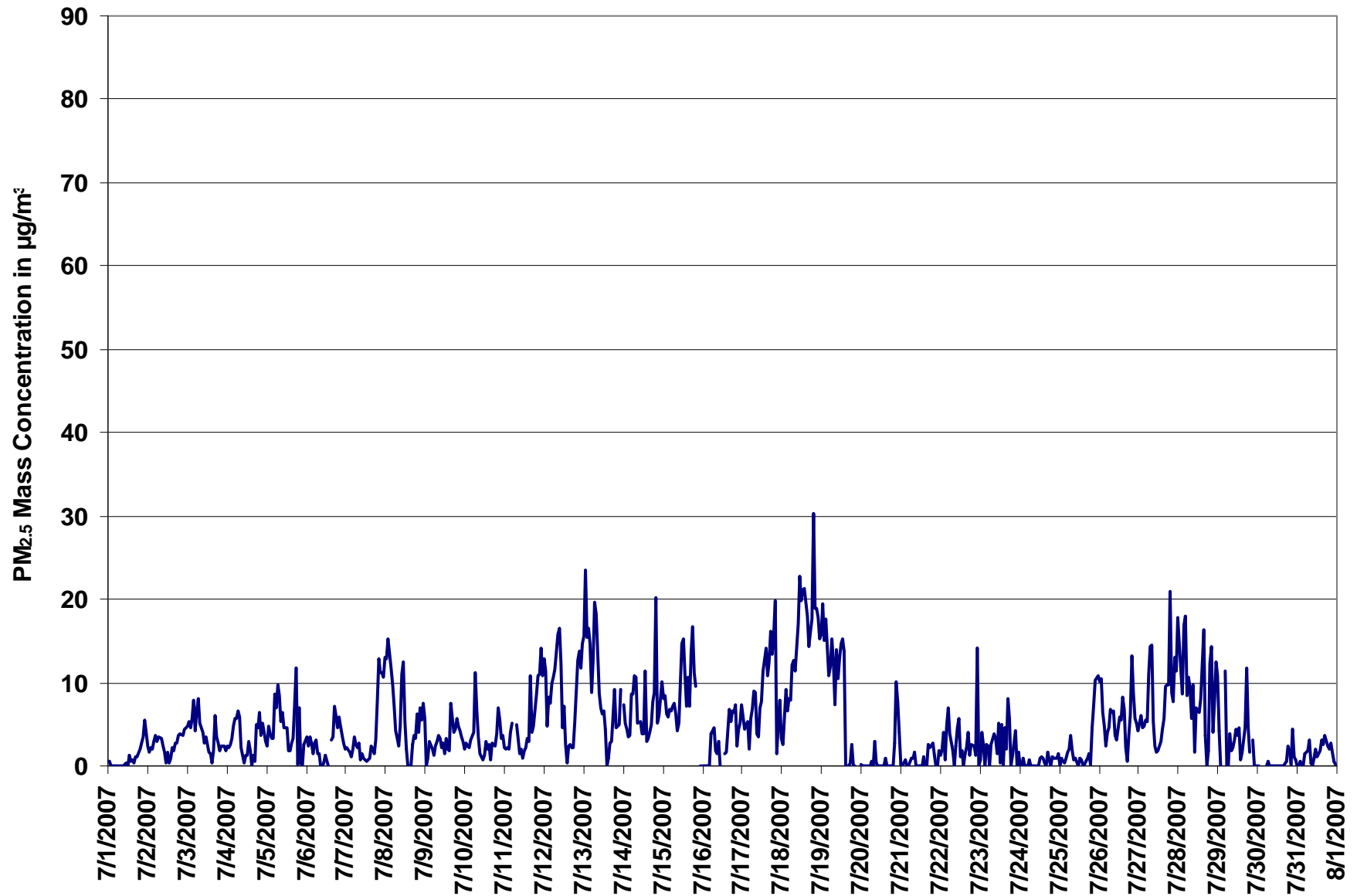


Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

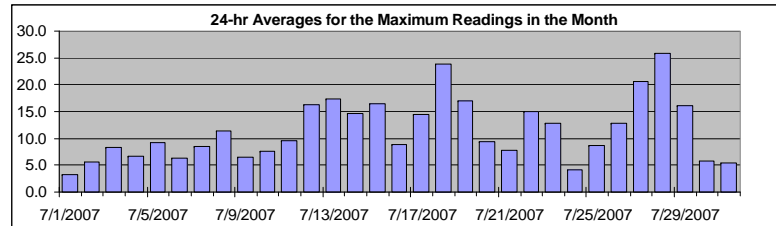
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	73.0	µg/m ³	28-Jul	15:00 16:00
Maximum 24-hr Value:	25.8	µg/m ³	28-Jul	



AIC Time:	0 hrs	Operational Time:	738 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.2%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geommean
	41.1	27.9	15.2	8.9	5.6	2.3	0.9	11.5	9 µg/m ³

Status Flag Characters

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

Day Mountain Standard Time

Hour Start / Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum
1-Jul-07	3	2	1	1	1	2	1	0	2	2	3	2	3	4	3	3	3	4	4	4	5	5	9	9	3.3	9.2
2-Jul-07	6	4	3	4	5	6	5	6	5	4	6	4	5	3	5	6	5	8	5	6	7	10	7	12	5.6	11.7
3-Jul-07	13	14	12	11	10	7	10	12	9	6	6	9	6	6	7	5	5	14	9	7	7	4	4	3	8.3	14.4
4-Jul-07	6	5	6	6	7	7	7	9	8	8	5	4	6	7	7	5	6	4	10	7	10	9	7	4	6.7	10.0
5-Jul-07	3	12	7	5	6	15	9	12	9	9	8	8	6	5	6	7	13	18	11	16	10	7	6	9.2	18.2	
6-Jul-07	9	5	6	6	4	5	5	4	3	2	3	3	9	5	D	7	8	13	14	7	10	7	7	4	6.3	14.4
7-Jul-07	3	4	4	3	4	6	5	4	5	3	4	5	4	8	6	5	8	5	11	19	24	21	22	20	8.4	23.5
8-Jul-07	21	18	26	15	14	10	8	5	5	9	17	17	17	8	2	8	9	8	6	12	10	12	8	9	11.4	26.5
9-Jul-07	10	2	3	4	4	3	4	4	7	7	4	7	5	6	7	6	22	7	7	12	10	7	6	4	6.6	22.2
10-Jul-07	4	7	4	4	5	7	20	9	8	6	6	6	7	6	7	11	3	8	7	13	12	10	6	7	7.6	20.5
11-Jul-07	4	3	4	5	9	9	P	9	6	6	5	4	6	7	8	9	33	9	8	13	15	14	19	13	9.6	33.1
12-Jul-07	24	25	12	12	16	16	18	16	19	21	21	11	14	8	9	9	9	10	6	10	27	22	14	41	16.3	41.2
13-Jul-07	30	41	25	32	23	13	21	23	28	16	11	16	15	11	8	8	8	11	16	14	9	7	15	P	17.4	40.8
14-Jul-07	20	14	10	10	10	12	13	18	14	13	11	9	13	28	24	8	11	10	13	15	35	13	14	18	14.7	35.2
15-Jul-07	23	13	12	7	10	11	13	11	12	13	33	20	21	15	21	16	27	29	20	19	D	D	3	3	16.5	33.1
16-Jul-07	2	2	5	1	2	7	10	8	11	7	10	6	D	9	12	11	16	17	12	15	17	8	6	9	8.8	16.8
17-Jul-07	10	8	8	8	8	8	9	14	14	11	14	13	14	20	22	15	21	22	19	22	39	10	11	11	14.5	39.2
18-Jul-07	10	10	15	10	15	13	21	19	20	30	25	35	35	33	36	31	28	28	25	45	22	25	23	22	23.9	45.4
19-Jul-07	21	25	27	30	16	19	23	19	16	24	23	20	21	28	19	22	12	6	15	5	10	0	0	6	17.0	30.3
20-Jul-07	6	4	5	4	1	0	4	2	12	14	6	7	7	8	7	8	6	6	12	21	15	29	20	21	9.5	29.3
21-Jul-07	8	5	8	3	4	2	8	6	6	11	10	5	8	10	10	10	7	17	13	14	7	4	5	4	7.7	16.9
22-Jul-07	6	5	16	7	9	12	8	11	10	13	11	17	13	15	15	18	29	17	15	8	18	26	50	13	15.0	49.9
23-Jul-07	28	14	16	7	9	13	7	10	8	20	12	15	11	20	10	12	16	23	23	4	8	12	3	6	12.9	28.4
24-Jul-07	0	5	7	1	1	1	4	4	3	6	5	6	9	6	5	6	5	5	3	3	2	3	3	3	4.2	9.3
25-Jul-07	3	3	2	2	2	4	4	8	7	7	5	6	7	8	8	8	6	6	9	3	47	19	17	15	8.6	47.5
26-Jul-07	13	19	19	8	5	9	9	10	13	12	13	9	13	14	17	20	14	12	17	12	18	15	8	6	12.8	20.3
27-Jul-07	6	8	8	6	8	7	17	25	24	15	19	12	11	13	18	26	29	24	27	61	58	41	18	15	20.7	60.5
28-Jul-07	39	22	27	24	27	15	17	17	16	17	15	23	31	18	30	73	21	39	18	36	38	9	27	20	25.8	73.0
29-Jul-07	22	18	6	4	32	6	3	9	11	9	10	18	15	19	20	23	18	38	31	19	19	9	5	5	16.1	38.0
30-Jul-07	5	3	2	2	0	3	5	5	5	5	10	9	4	6	8	5	6	8	9	9	7	13	8	3	5.8	13.1
31-Jul-07	2	2	4	1	2	4	5	10	5	3	6	9	7	8	6	7	9	11	5	6	8	5	4	1	5.4	10.6
Hourly Avg	11.6	10.4	10.0	7.9	8.6	8.1	9.8	10.3	10.5	10.6	10.3	11.4	11.5	11.9	11.8	13.3	12.8	13.9	13.5	14.6	17.7	12.9	11.9	10.5		
Hourly Max	38.7	40.8	27.0	32.3	31.6	19.0	22.8	25.4	27.8	29.6	25.2	35.3	35.4	32.6	35.8	73.0	33.1	39.4	31.2	60.5	58.2	41.2	49.9	41.2		

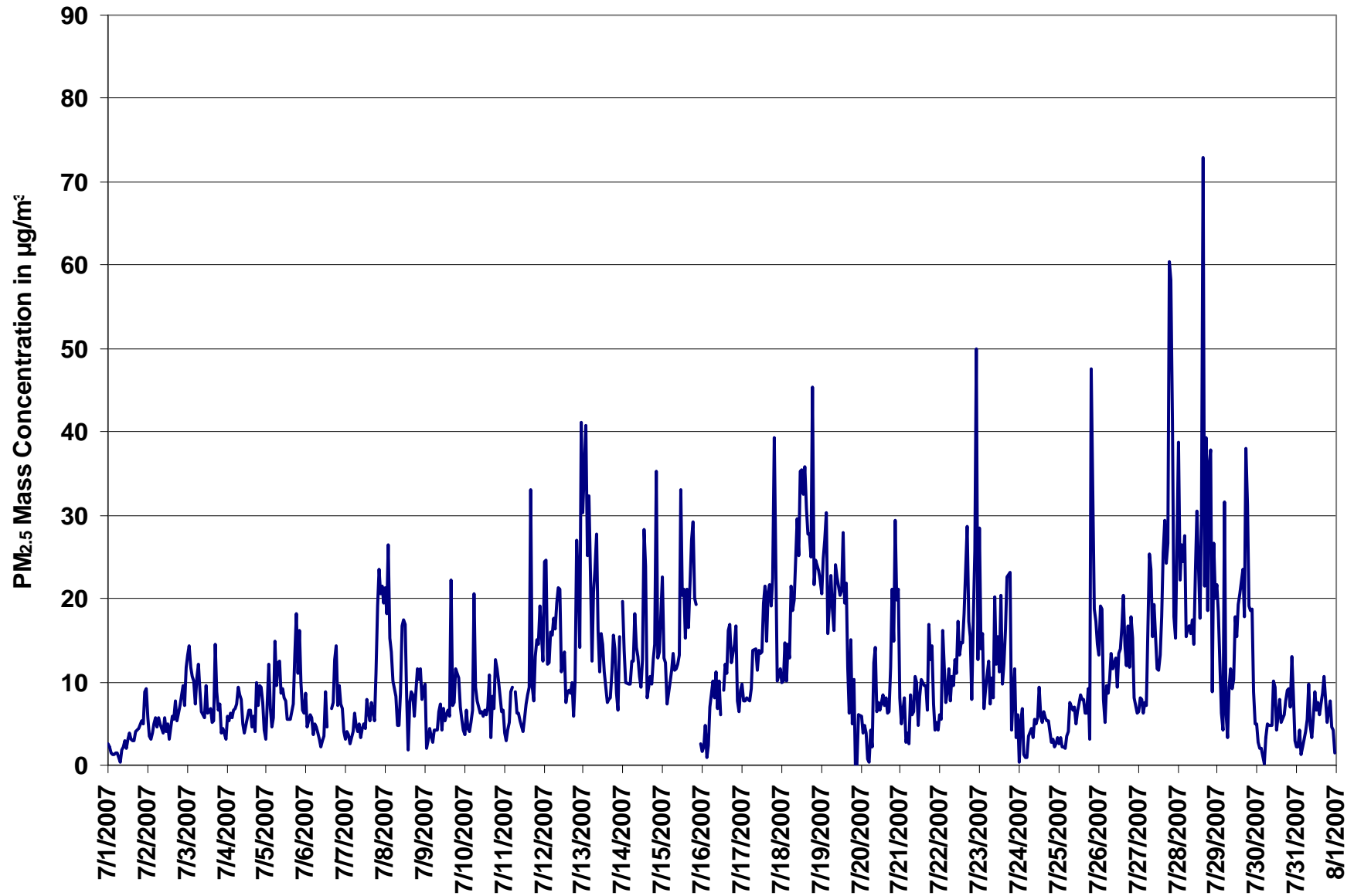
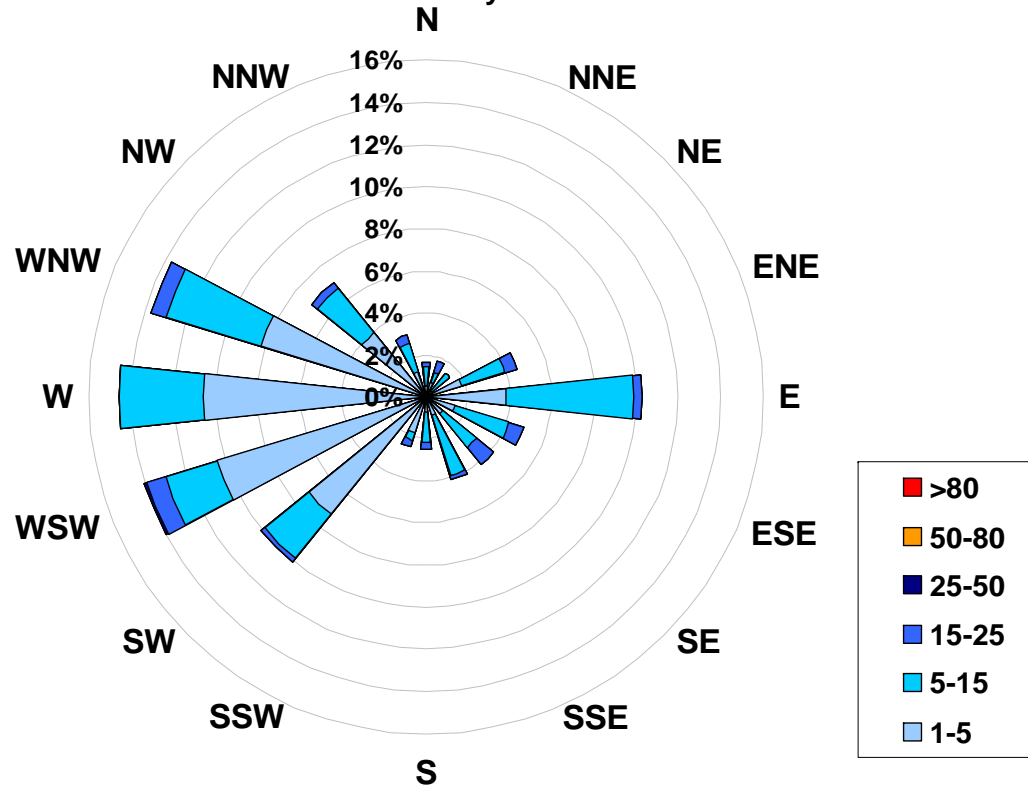


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 July 2007



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			Frequency (hrs)
Range			
1.0	< 5		478
5	to 15		213
15	to 25		38
25	to 50		1
50	to 80		0
	> 80		0
Total Non-Zero Values			730

PASZA - Henry Pirker Relative Humidity Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

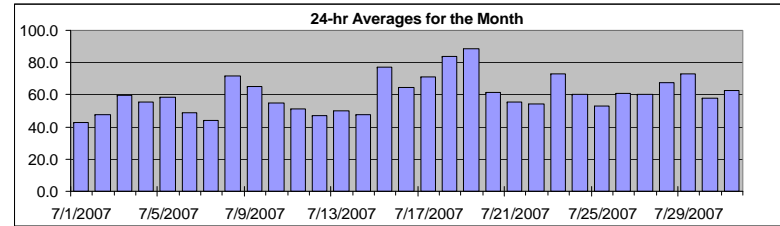
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average: 97.8 % 19-Jul 5:00 6:00				
Maximum 24-hr Value: 88.8 % 19-Jul				



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
96.2	89.6	74.5	60.4	45.9	31.9	24.6	60.3 %	60.4 %

Status Flag Characters

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

Day	Mountain Standard Time																								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-Jul-07	54	56	56	59	60	63	54	44	40	37	35	34	32	32	30	29	29	29	31	33	40	45	51	57	42.9	62.6
2-Jul-07	56	58	59	63	68	67	62	55	55	47	42	38	35	32	30	31	32	34	36	41	47	49	51	59	47.9	68.2
3-Jul-07	66	73	71	74	71	74	73	75	70	67	59	52	49	47	47	41	43	53	52	48	50	55	60	65	59.8	75.4
4-Jul-07	72	73	78	81	78	77	71	65	61	54	49	46	42	41	38	36	33	33	38	44	49	52	57	62	55.4	81.2
5-Jul-07	66	74	85	83	81	82	77	71	61	52	48	45	43	37	33	32	32	37	44	51	62	64	68	67	58.1	84.6
6-Jul-07	72	75	76	75	75	73	70	61	53	43	36	33	35	32	27	23	26	33	35	37	40	40	47	50	48.7	76.4
7-Jul-07	53	55	58	60	62	63	58	51	48	41	38	36	32	30	28	27	27	25	28	33	41	49	54	62	44.1	63.4
8-Jul-07	70	73	77	83	86	84	73	70	65	62	65	72	78	73	63	52	61	66	68	73	70	77	81	84	71.9	85.8
9-Jul-07	84	74	77	84	84	83	83	80	74	72	66	62	58	57	55	53	50	46	46	50	53	55	58	59	65.1	83.8
10-Jul-07	62	64	68	67	67	68	68	64	58	50	47	45	43	44	46	45	44	44	44	46	51	56	60	63	54.8	68.5
11-Jul-07	65	66	71	76	79	76	67	59	50	43	40	39	37	36	35	34	33	32	33	38	47	54	58	65	51.5	78.6
12-Jul-07	70	77	73	75	79	81	60	54	50	46	44	37	35	30	26	24	23	22	21	21	28	45	52	55	46.9	80.7
13-Jul-07	72	80	86	85	86	81	74	67	58	50	42	37	36	34	28	26	25	24	25	30	34	36	42	46	50.2	86.3
14-Jul-07	55	57	59	62	61	63	63	58	52	44	38	37	34	30	27	27	27	28	32	35	53	67	66	75	47.9	75.0
15-Jul-07	79	84	89	88	89	88	79	70	66	59	59	68	76	75	66	69	63	70	86	87	85	83	81	83	76.9	89.3
16-Jul-07	83	86	88	92	92	94	86	77	70	59	53	48	40	39	37	38	46	50	52	54	62	64	69	74	64.7	93.6
17-Jul-07	77	79	80	82	87	90	84	74	66	58	52	53	52	54	57	59	60	60	59	63	75	97	97	96	71.2	96.9
18-Jul-07	96	96	96	96	96	93	91	85	81	80	74	69	74	74	69	71	72	72	74	85	93	93	93	94	84.0	96.3
19-Jul-07	95	96	96	97	98	98	98	97	95	89	85	86	87	81	81	81	85	90	91	90	87	77	77	77	88.8	97.8
20-Jul-07	78	77	77	82	85	83	75	68	62	57	50	47	44	44	45	47	45	44	45	46	51	64	73	77	61.2	85.3
21-Jul-07	77	74	70	75	75	71	69	64	62	58	50	47	43	39	38	36	36	40	41	48	49	53	55	57	55.2	76.6
22-Jul-07	59	64	67	69	71	70	70	62	56	49	45	44	41	40	39	37	41	44	46	51	51	54	67	68	54.4	71.1
23-Jul-07	69	70	75	75	74	78	76	76	74	71	68	67	59	58	53	56	59	62	77	88	90	92	91	93	72.9	93.4
24-Jul-07	91	87	88	88	88	82	76	68	63	58	50	41	42	43	43	43	41	42	45	45	49	54	58	64	60.4	91.3
25-Jul-07	67	72	74	77	77	76	69	65	59	51	46	42	40	38	36	35	34	34	33	33	40	51	60	65	53.1	77.2
26-Jul-07	69	77	84	82	82	84	82	78	69	62	58	50	48	47	49	47	42	39	38	41	50	59	63	64	61.1	84.5
27-Jul-07	67	72	74	76	76	76	77	76	76	68	52	46	42	40	40	40	45	48	47	58	64	61	64	65	60.4	76.9
28-Jul-07	77	87	83	85	90	90	91	85	72	66	55	50	47	45	48	68	52	47	47	52	63	67	68	79	67.2	91.3
29-Jul-07	87	88	87	81	92	90	82	77	72	70	71	66	60	55	50	48	47	58	72	76	77	76	82	87	73.0	92.1
30-Jul-07	89	86	82	74	72	75	73	64	59	56	51	48	45	40	38	38	36	37	41	47	46	59	64	63	57.7	89.4
31-Jul-07	65	67	71	71	72	73	67	63	57	52	52	58	56	54	54	55	57	58	61	61	63	66	72	73	62.4	73.1
Hourly Avg	72.4	74.8	76.6	78.0	79.1	78.9	74.2	68.5	63.1	57.2	52.3	49.8	47.9	45.9	43.7	43.5	43.4	45.2	48.0	51.7	56.8	61.7	65.7	69.3	62.4	73.1
Hourly Max	95.9	96.3	96.0	97.0	97.6	97.8	97.6	97.1	95.2	88.7	85.4	86.4	86.6	80.5	81.2	80.6	84.7	89.5	90.8	89.6	92.8	96.9	96.6	96.1		

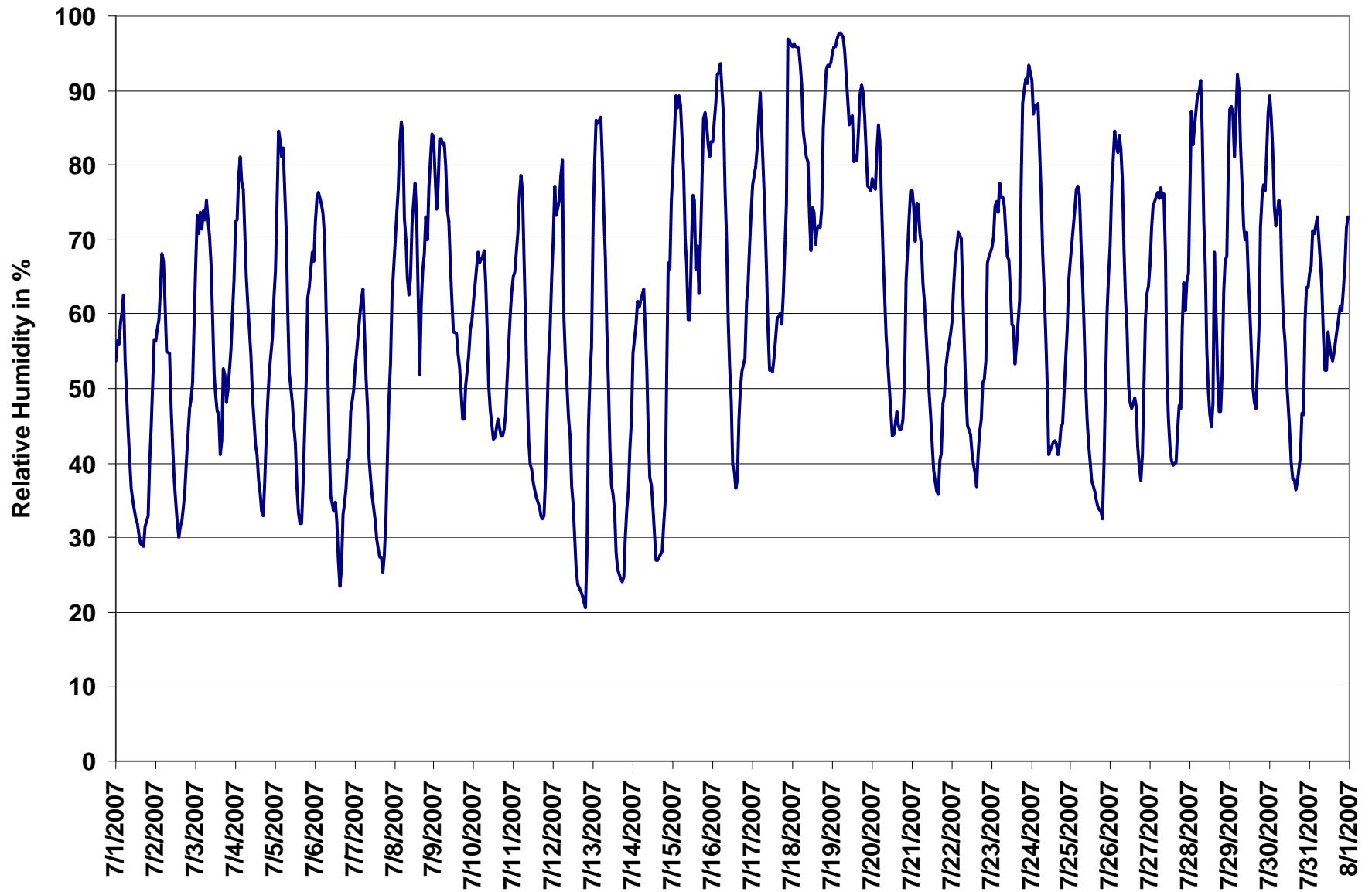


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

PASZA - Henry Pirker Temperature Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

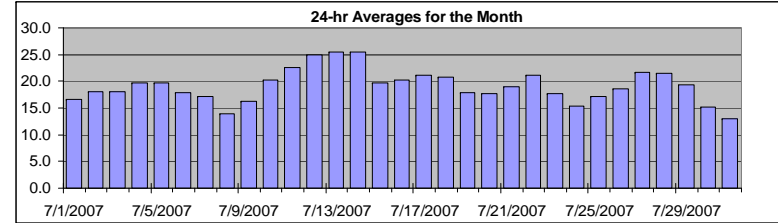
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	34.7	°C	13-Jul	16:00 17:00
Maximum 24-hr Value:	25.5	°C	14-Jul	



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
	32.3	28.0	22.8	18.6	15.1	11.5	9.9	19.1 °C	18.6 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Jul-07	13	12	12	11	11	10	13	15	16	17	18	19	20	21	21	22	22	22	21	20	18	16	15	13	16.7	21.8
2-Jul-07	13	12	12	11	10	11	13	16	17	19	21	22	23	23	24	24	24	24	23	22	20	18	17	15	18.1	24.1
3-Jul-07	14	13	13	13	14	14	15	16	17	17	19	22	22	22	23	24	23	21	22	21	20	18	17	15	18.1	23.8
4-Jul-07	14	13	12	11	12	13	15	17	19	21	22	24	25	25	26	26	26	25	25	23	22	20	19	19	19.8	26.1
5-Jul-07	17	15	13	14	14	15	16	18	20	22	23	24	25	26	27	27	27	25	22	19	18	16	15	15	19.7	27.2
6-Jul-07	14	14	13	13	12	12	13	15	17	19	20	21	22	23	24	24	24	22	21	20	18	18	16	14	17.8	24.1
7-Jul-07	13	12	12	11	10	10	12	14	16	18	20	21	21	22	22	23	23	23	22	21	20	17	15	14	17.1	23.1
8-Jul-07	12	12	11	11	10	10	12	13	15	16	16	15	15	15	16	18	17	16	16	15	15	14	13	13	13.9	17.6
9-Jul-07	13	13	12	11	11	12	12	13	15	15	16	18	19	19	20	20	21	21	21	20	19	18	17	17	16.3	21.3
10-Jul-07	16	15	15	15	15	15	16	17	19	21	22	23	24	25	25	25	25	25	25	24	22	21	19	18	20.2	25.3
11-Jul-07	17	17	16	14	14	14	17	20	22	24	25	26	27	27	28	28	29	29	29	27	25	23	22	20	22.5	29.2
12-Jul-07	19	17	16	15	14	15	18	20	23	26	28	29	31	32	32	32	32	33	32	32	29	26	24	23	24.9	32.5
13-Jul-07	18	16	15	14	14	15	17	19	22	25	28	30	32	33	34	34	35	34	34	32	30	28	26	25	25.5	34.7
14-Jul-07	22	22	21	19	19	19	20	23	25	27	29	29	30	31	32	32	32	32	30	29	26	22	21	20	25.5	32.2
15-Jul-07	19	17	15	15	15	16	18	21	22	23	23	22	22	22	24	23	25	23	20	20	19	18	16	16	19.8	24.9
16-Jul-07	15	14	13	12	12	12	15	17	19	22	24	25	27	27	28	27	25	24	24	24	22	20	19	18	20.3	28.2
17-Jul-07	17	17	17	16	15	15	16	19	21	23	24	25	26	26	26	26	25	26	27	26	24	17	17	18	21.2	27.0
18-Jul-07	18	17	18	18	18	18	19	21	21	21	23	24	23	23	24	23	23	23	23	21	20	20	20	20	20.8	24.2
19-Jul-07	19	19	19	19	18	18	18	18	18	19	20	20	20	21	21	19	17	16	16	16	16	16	14	14	17.9	21.4
20-Jul-07	13	13	13	12	11	11	13	15	18	19	20	21	22	22	21	21	22	22	22	22	20	18	16	15	17.7	22.2
21-Jul-07	15	15	15	14	14	14	15	16	17	18	21	22	23	23	25	25	24	24	23	21	20	18	17	17	18.9	24.7
22-Jul-07	16	16	15	15	15	15	15	17	19	22	24	25	27	27	28	28	27	26	25	23	22	21	20	19	21.1	28.2
23-Jul-07	18	18	17	17	17	16	16	17	17	18	19	20	21	22	22	21	21	20	18	14	14	14	14	14	17.7	21.5
24-Jul-07	13	13	13	13	12	12	13	14	14	16	17	18	18	18	18	18	19	19	18	17	16	15	14	13	15.4	18.6
25-Jul-07	12	11	10	9	9	9	11	13	15	18	19	21	22	23	23	24	24	24	24	23	21	18	16	15	17.2	24.2
26-Jul-07	14	12	11	11	11	10	11	13	15	18	19	21	23	23	24	25	26	26	26	24	23	21	20	19	18.6	26.1
27-Jul-07	19	18	17	17	16	17	17	18	19	21	24	25	26	27	27	27	27	26	26	24	22	21	20	19	21.6	27.4
28-Jul-07	18	16	16	16	16	16	16	18	20	22	24	26	27	27	26	23	26	27	26	25	24	22	21	19	21.5	27.5
29-Jul-07	17	17	17	16	16	16	17	18	20	20	20	22	23	25	26	26	25	22	20	18	17	16	14	13	19.3	26.1
30-Jul-07	13	13	13	13	12	11	12	14	15	15	16	18	18	19	20	19	19	19	19	17	16	13	12	12	15.3	19.5
31-Jul-07	11	11	10	9	9	9	11	12	14	14	14	13	14	15	15	15	16	16	16	16	15	14	12	12	13.1	15.8
Hourly Avg	15.6	14.9	14.2	13.7	13.3	13.5	14.9	16.7	18.3	19.9	21.3	22.2	23.1	23.7	24.2	24.2	24.1	23.7	23.0	21.9	20.4	18.7	17.4	16.5		
Hourly Max	22.4	21.6	20.8	19.1	19.3	19.4	20.5	22.6	24.8	27.4	28.9	30.2	31.9	33.0	34.2	34.2	34.7	34.4	33.7	32.3	29.9	27.9	26.3	25.1		

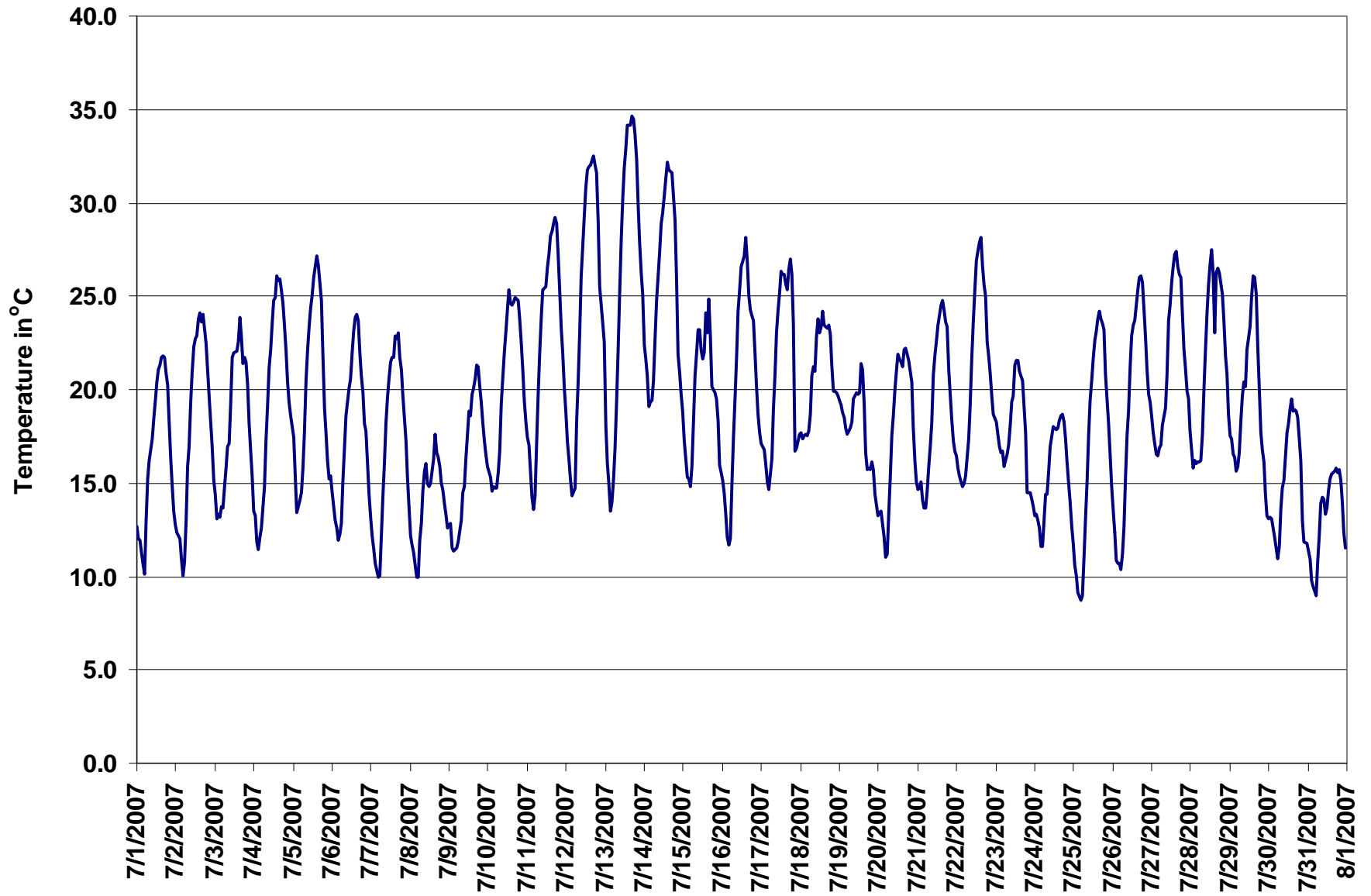


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

PASZA - Henry Pirker Solar Radiation Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

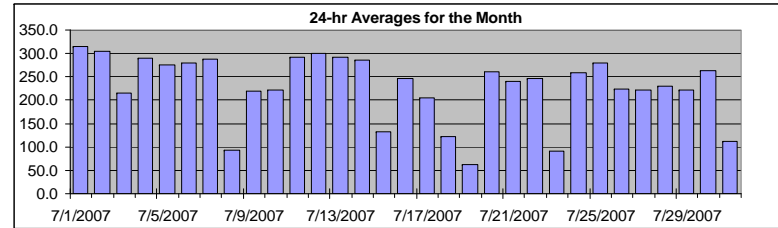
HOURLY AVERAGE TABLE

Solar Radiation (SR)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	789.1	W/m ²	1-Jul	12:00 13:00
Maximum 24-hr Value:	315.3	W/m ²	1-Jul	



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
	769.0	721.5	434.8	130.6	0.7	0.1	0.0	228.6 W/m ²	130.6 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-Jul-07	0	0	0	0	6	31	198	312	468	600	692	755	789	785	737	664	562	439	299	182	40	7	0	0	315.3	789.1
2-Jul-07	0	0	0	0	8	38	190	299	454	586	684	759	721	703	737	661	513	434	291	180	37	8	0	0	304.3	758.5
3-Jul-07	0	0	0	0	8	31	94	146	245	231	435	772	647	465	630	636	318	176	174	125	38	6	0	0	215.8	771.8
4-Jul-07	0	0	0	0	13	49	169	267	435	537	678	706	752	764	728	596	556	302	262	131	31	4	0	0	290.9	763.7
5-Jul-07	0	0	0	0	4	35	142	269	447	577	669	738	768	760	722	648	516	208	36	36	9	3	0	0	274.5	768.3
6-Jul-07	0	0	0	0	10	44	100	259	338	509	653	749	784	769	735	695	535	270	158	72	29	3	0	0	279.6	784.3
7-Jul-07	0	0	0	0	5	27	181	291	457	584	679	673	786	718	550	617	494	437	240	137	42	6	0	0	288.6	786.1
8-Jul-07	0	0	0	0	8	32	103	157	286	214	155	90	120	205	254	229	134	117	85	35	21	4	0	0	93.8	286.1
9-Jul-07	0	0	0	1	2	16	67	138	348	309	557	659	779	444	517	396	359	309	238	98	34	3	0	0	219.8	779.3
10-Jul-07	0	0	0	0	3	24	81	189	386	552	657	710	640	616	247	258	270	316	214	100	31	4	0	0	220.7	709.5
11-Jul-07	0	0	0	0	4	40	187	271	438	563	645	671	738	673	702	616	528	441	319	114	31	6	0	0	291.2	738.5
12-Jul-07	0	0	0	0	4	26	156	263	432	559	655	729	758	759	724	648	548	426	295	169	36	4	0	0	299.7	759.0
13-Jul-07	0	0	0	0	4	25	155	264	442	571	669	737	769	763	717	504	533	409	263	150	43	5	1	0	292.7	769.0
14-Jul-07	0	0	0	0	3	32	139	246	424	550	648	639	750	722	700	643	539	418	205	106	65	5	0	0	284.8	750.3
15-Jul-07	0	0	0	0	5	34	146	268	394	381	143	105	142	226	437	299	478	71	11	11	10	1	0	0	131.8	477.8
16-Jul-07	0	0	0	0	3	25	155	249	424	542	642	710	735	738	627	394	119	198	151	130	47	1	0	0	245.5	738.1
17-Jul-07	0	0	0	0	3	25	143	241	411	520	574	581	666	487	352	190	181	202	231	119	8	0	0	0	205.7	666.1
18-Jul-07	0	0	0	0	1	11	92	266	310	214	300	320	228	344	285	187	141	144	52	10	12	1	0	0	121.7	344.3
19-Jul-07	0	0	0	0	1	16	56	68	106	211	130	103	137	282	108	47	35	29	54	58	34	2	0	0	61.6	281.8
20-Jul-07	0	0	0	0	3	19	154	266	459	473	584	703	774	580	469	398	469	405	238	209	56	4	0	0	261.0	773.6
21-Jul-07	0	0	0	0	3	29	143	236	268	330	647	669	726	723	709	473	370	188	154	100	14	2	0	0	241.1	726.1
22-Jul-07	0	0	0	0	2	15	78	164	372	544	635	703	726	680	684	520	300	261	167	65	15	2	0	0	247.2	726.3
23-Jul-07	0	0	0	0	1	14	40	41	117	172	214	289	274	239	261	177	180	90	23	21	10	1	0	0	90.2	289.4
24-Jul-07	0	0	0	0	2	16	160	220	316	519	567	683	527	648	567	643	520	399	269	144	31	2	0	0	259.8	683.3
25-Jul-07	0	0	0	0	2	17	143	244	420	535	639	706	736	704	631	600	513	391	251	141	26	2	0	0	279.3	736.1
26-Jul-07	0	0	0	0	3	24	97	192	331	297	497	634	699	537	423	569	462	300	208	66	19	1	0	0	223.3	699.5
27-Jul-07	0	0	0	0	1	13	74	150	224	296	523	598	701	570	649	514	340	284	251	106	24	1	1	0	221.8	701.0
28-Jul-07	0	0	0	0	0	4	43	158	296	434	570	596	729	681	263	441	506	405	254	97	21	2	0	0	229.4	729.4
29-Jul-07	0	0	0	0	1	5	119	204	320	382	374	612	692	705	668	592	321	36	211	35	32	1	0	0	221.3	704.6
30-Jul-07	0	0	0	0	1	11	135	273	348	444	640	708	705	701	631	515	466	347	223	117	27	1	0	0	262.3	708.1
31-Jul-07	0	0	0	0	1	18	110	180	353	272	186	124	175	300	293	176	164	144	108	62	21	1	0	0	112.1	353.3
Hourly Avg	0.2	0.2	0.2	0.2	3.8	24.2	124.3	219.1	357.1	435.7	527.1	588.1	618.5	590.0	540.6	469.3	386.1	277.3	191.4	100.8	28.9	3.0	0.3	0.2		
Hourly Max	0.3	0.3	0.3	1.0	12.5	49.4	197.5	311.9	467.6	599.8	692.3	771.8	789.1	784.8	737.5	695.0	562.3	441.1	319.0	208.8	65.0	8.1	1.2	0.5		

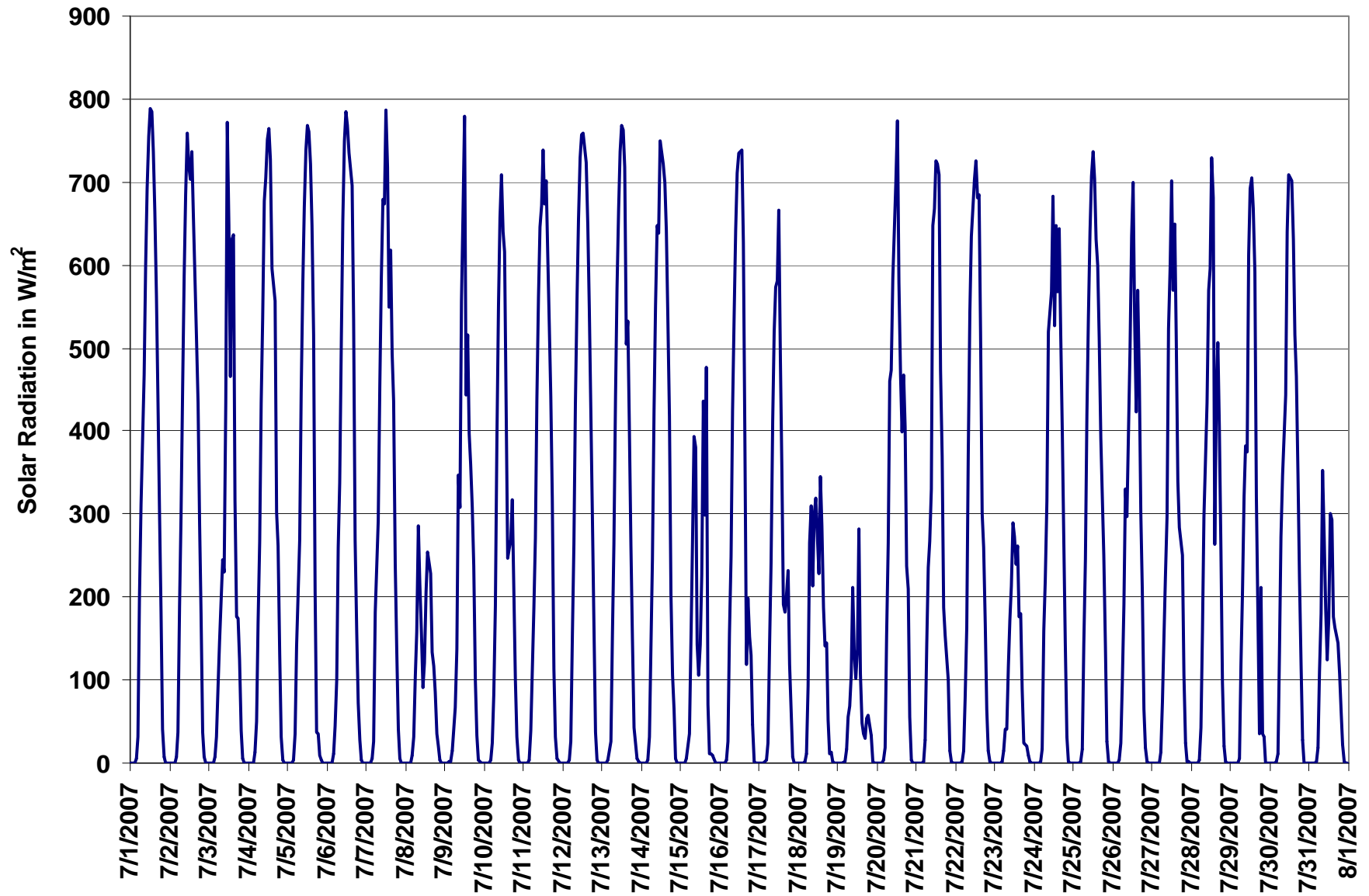


Figure 19. PASZA - Henry Pirker Solar Radiation 1-hr Average Monthly Trend

PASZA - Henry Pirker Scalar Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

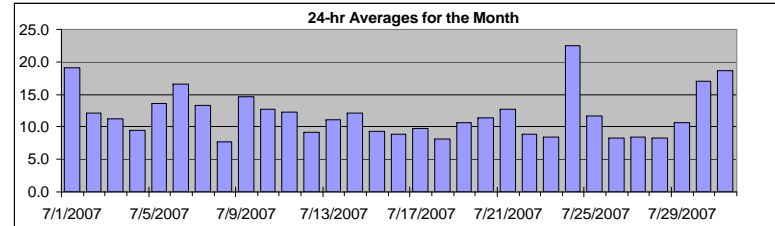
Wind Speed (WSs)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	34.2	km/hr	24-Jul	14:00 15:00
Maximum 24-hr Value:	22.4	km/hr	24-Jul	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	29.6	22.6	14.1	10.4	8.2	6.0	5.1	11.9 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-Jul-07	18	19	19	18	14	8	13	22	27	28	26	26	25	24	25	23	23	23	24	20	12	8	6	7		19.1	27.6	
2-Jul-07	7	10	9	7	6	8	10	10	11	11	14	17	19	20	20	18	18	14	16	13	9	9	9	5		12.1	20.2	
3-Jul-07	6	6	6	6	12	9	9	8	12	14	12	14	15	14	16	17	16	11	9	13	15	12	11	9		11.3	16.6	
4-Jul-07	7	8	6	7	10	6	10	10	10	11	11	8	8	9	9	10	10	9	11	12	10	10	11	12		9.5	12.3	
5-Jul-07	9	6	6	7	5	8	9	13	20	21	18	19	18	20	17	15	17	15	16	17	8	17	11	12		13.6	21.4	
6-Jul-07	12	14	10	9	11	12	13	18	20	21	21	23	17	18	20	23	23	19	19	17	14	15	12	13		16.5	22.9	
7-Jul-07	13	13	14	13	10	9	13	18	21	19	17	16	16	17	17	15	15	15	13	9	7	8	7	7		13.3	20.5	
8-Jul-07	6	5	5	5	6	5	9	10	10	8	9	10	13	12	10	7	8	7	8	9	6	6	6	7		7.7	12.9	
9-Jul-07	9	18	13	12	14	17	16	20	22	22	22	21	19	16	13	13	12	13	11	8	10	11	10	9		14.6	22.4	
10-Jul-07	9	9	8	9	8	9	7	9	11	15	16	16	13	12	12	19	21	20	17	16	14	13	11	11		12.8	20.8	
11-Jul-07	11	14	10	7	6	9	11	15	16	19	15	16	14	16	15	16	15	13	13	10	9	9	9	7		12.3	19.0	
12-Jul-07	7	6	7	6	5	6	11	13	10	10	11	11	9	11	13	13	11	9	9	7	7	9	9	8		9.1	13.3	
13-Jul-07	6	5	6	6	6	7	8	8	8	9	10	13	13	15	16	16	16	16	14	12	12	12	12	21		11.1	21.5	
14-Jul-07	11	10	10	9	11	10	9	11	12	13	14	15	15	15	17	17	16	14	13	13	14	9	6	6		12.1	16.8	
15-Jul-07	7	8	7	8	7	5	6	8	11	11	10	12	12	10	10	11	14	12	11	9	7	12	11	8	8		9.3	14.0
16-Jul-07	10	8	7	6	7	6	7	9	9	8	7	7	8	9	7	9	11	12	8	9	12	13	13	9		8.8	12.9	
17-Jul-07	9	7	7	6	8	8	7	8	8	10	11	11	12	13	11	11	10	7	8	11	17	16	9	8		9.7	16.8	
18-Jul-07	7	7	8	6	12	12	7	11	9	10	6	6	9	10	8	10	7	7	6	10	8	6	6	8		8.2	11.7	
19-Jul-07	7	8	6	9	10	10	8	10	10	9	10	9	7	9	9	17	22	10	11	10	14	17	13	10		10.6	22.0	
20-Jul-07	9	9	9	8	11	9	11	13	13	17	17	17	19	17	14	13	11	10	9	10	8	6	7	8		11.5	19.4	
21-Jul-07	9	14	13	9	12	11	8	12	12	12	16	18	20	19	16	12	14	10	12	14	13	11	10	9		12.7	19.9	
22-Jul-07	10	7	6	7	6	7	7	9	11	9	9	10	9	10	10	9	14	12	11	11	10	8	6	6		8.9	14.1	
23-Jul-07	8	5	7	6	10	10	11	8	7	8	6	8	6	6	7	10	10	9	17	11	6	8	8	10		8.4	16.7	
24-Jul-07	8	13	13	12	10	13	15	17	22	23	25	28	28	34	34	34	34	31	30	31	28	23	20	13		22.4	34.2	
25-Jul-07	13	13	11	9	10	11	15	14	16	17	16	15	15	14	13	13	11	10	9	6	5	7	8	8		11.6	17.2	
26-Jul-07	6	5	6	6	7	6	6	8	7	7	10	10	10	10	10	10	9	8	10	9	9	10	11	9		8.3	10.6	
27-Jul-07	8	7	6	7	7	8	7	9	11	11	10	12	11	8	8	8	9	9	10	8	5	7	7	8		8.4	12.4	
28-Jul-07	5	5	6	7	9	9	7	11	8	9	9	9	9	9	10	12	8	9	9	7	9	8	6	8		8.2	11.7	
29-Jul-07	9	11	7	11	14	10	10	9	8	9	10	9	11	8	9	10	9	9	16	15	16	13	12	9		10.6	16.3	
30-Jul-07	8	11	12	12	17	14	12	16	17	17	19	19	20	20	25	29	28	24	18	14	16	13	11	12		17.0	29.5	
31-Jul-07	11	12	13	11	12	11	12	12	21	30	28	23	27	28	26	24	24	24	24	24	19	16	15	14	13		18.6	29.7
1-hr Average	9.0	9.4	8.8	8.4	9.4	9.1	9.8	11.8	13.3	14.1	14.0	14.5	14.4	14.6	14.5	15.0	15.0	13.3	13.2	12.2	11.3	11.0	9.6	9.4				
Hourly Max	18.2	18.9	19.0	18.4	16.8	16.8	16.1	21.7	26.9	29.7	27.9	27.8	27.6	34.0	34.2	33.8	34.2	31.0	29.7	31.1	27.9	22.6	20.3	21.5				

PASZA - Henry Pirker Vector Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

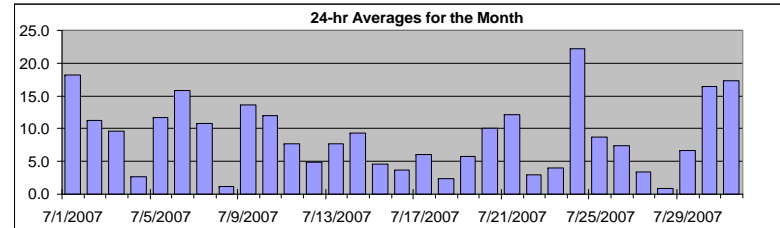
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	33.9	km/hr	24-Jul	14:00 15:00
Maximum 24-hr Value:	22.2	km/hr	24-Jul	



Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	29.3	22.2	13.6	9.7	7.0	3.4	1.5	35.9 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-Jul-07	18	19	19	18	13	6	13	21	27	27	26	26	25	24	24	22	22	22	24	20	12	8	4	5	18.2	27.3	
2-Jul-07	6	10	9	7	5	7	10	10	11	11	13	16	19	19	20	17	18	14	15	13	9	9	8	4	11.2	19.7	
3-Jul-07	4	5	4	5	12	8	8	7	11	13	12	13	14	13	15	16	16	9	8	13	15	12	10	8	9.6	16.1	
4-Jul-07	5	7	4	6	9	5	9	9	9	10	10	6	5	6	7	9	9	9	10	12	10	10	11	12	2.7	12.1	
5-Jul-07	9	4	6	7	5	7	9	12	19	21	17	18	18	19	17	15	17	15	16	17	7	17	10	12	11.6	21.2	
6-Jul-07	12	14	7	8	9	12	13	18	20	21	21	22	16	17	19	22	23	19	19	17	14	14	12	13	15.8	22.5	
7-Jul-07	12	13	14	12	8	7	13	17	20	18	16	15	15	16	16	14	15	15	13	8	5	8	7	3	10.8	20.3	
8-Jul-07	5	3	3	3	6	5	9	10	10	6	9	10	13	11	9	4	8	6	8	9	4	2	5	5	1.1	12.6	
9-Jul-07	8	18	13	12	14	17	16	19	22	21	22	21	19	16	13	12	11	12	10	7	10	11	10	9	13.6	22.3	
10-Jul-07	9	8	7	9	7	9	7	9	10	15	15	16	12	12	11	19	21	20	17	16	13	13	11	11	11.9	20.6	
11-Jul-07	11	13	9	3	5	8	11	14	16	19	15	16	13	15	15	16	15	13	13	10	8	9	9	7	7.7	18.6	
12-Jul-07	5	5	5	6	5	6	10	13	9	9	10	11	8	10	13	13	11	8	8	6	7	9	9	6	4.8	12.7	
13-Jul-07	5	0	2	4	4	7	8	7	8	9	9	12	12	14	15	15	16	16	14	12	12	12	11	19	7.6	19.4	
14-Jul-07	7	10	10	9	11	9	8	11	12	12	13	15	14	12	16	16	16	14	12	13	13	8	2	3	9.4	16.4	
15-Jul-07	6	6	7	8	2	2	3	7	11	11	9	10	9	8	11	14	12	10	1	5	12	11	7	7	4.6	13.6	
16-Jul-07	10	6	6	3	6	5	6	9	8	5	4	5	6	6	4	7	9	11	6	9	12	13	13	8	3.7	12.6	
17-Jul-07	9	6	6	3	8	7	7	7	7	9	10	10	11	12	10	11	10	5	7	10	4	9	5	6	6.1	11.8	
18-Jul-07	4	0	5	3	11	11	6	11	8	9	3	3	5	9	6	10	7	5	1	8	7	5	2	2	2.4	10.8	
19-Jul-07	3	8	3	8	10	9	7	9	10	5	9	8	3	8	8	17	22	8	8	10	14	16	13	10	5.8	21.7	
20-Jul-07	8	9	8	8	11	9	11	13	12	17	16	16	19	17	14	12	10	9	8	8	7	2	5	5	10.1	18.8	
21-Jul-07	8	14	12	9	11	11	6	12	12	11	16	18	20	18	15	10	13	10	11	14	12	11	10	8	12.2	19.5	
22-Jul-07	10	5	5	6	3	7	7	8	11	8	7	8	7	8	7	8	13	12	10	11	9	6	4	6	2.9	13.5	
23-Jul-07	5	0	7	5	9	9	11	7	7	7	5	6	5	3	7	10	10	5	16	10	3	7	7	8	4.0	16.5	
24-Jul-07	8	12	13	12	9	13	15	17	22	22	24	27	27	34	34	34	34	31	29	31	28	23	20	13	22.2	33.9	
25-Jul-07	13	13	11	9	8	10	14	14	16	17	15	15	14	13	12	12	10	8	8	5	2	6	8	8	8.7	16.5	
26-Jul-07	6	4	6	5	7	5	6	8	5	6	9	10	9	9	9	8	7	6	10	9	9	10	11	9	7.5	10.6	
27-Jul-07	8	6	6	7	6	7	6	6	11	11	9	11	9	4	4	1	6	9	9	8	1	7	7	7	3.4	11.2	
28-Jul-07	2	2	6	6	8	4	6	10	7	8	7	7	1	6	2	2	8	8	8	4	8	7	3	8	0.9	10.3	
29-Jul-07	5	10	5	10	7	8	10	9	8	7	9	7	10	5	7	9	6	4	14	14	15	10	10	8	6.6	15.3	
30-Jul-07	8	10	12	12	17	14	12	16	17	17	19	19	20	19	24	29	28	23	18	14	16	13	11	12	16.5	29.1	
31-Jul-07	11	12	12	11	11	10	11	12	21	30	28	22	26	27	26	24	24	24	23	18	16	15	14	13	17.3	29.5	
1-hr Vector	5.2	6.8	5.0	4.2	4.9	4.2	5.7	7.2	7.6	7.8	8.2	8.9	9.0	8.8	8.8	8.2	8.8	7.2	7.0	6.1	3.6	3.0	2.9	5.1			
Hourly Max	18.0	18.8	18.9	18.3	16.7	16.7	16.0	21.4	26.5	29.5	27.6	27.3	26.7	33.7	33.9	33.5	33.8	30.7	29.5	30.9	27.8	22.5	20.3	19.4			

PASZA - Henry Pirker Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	343.2	315.9	276.4	240.3	160.4	71.4	17.2	251 deg

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	WD Sector	
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-07	204	201	206	206	220	264	237	225	225	223	221	225	235	224	220	218	234	248	261	260	266	223	226	215	228	SW	
2-Jul-07	235	215	222	211	216	257	265	222	207	232	226	245	257	252	247	265	265	281	277	280	272	254	287	248	250	WSW	
3-Jul-07	295	218	239	172	230	290	302	277	232	248	245	206	203	205	197	226	217	277	275	274	256	262	246	271	241	WSW	
4-Jul-07	253	257	279	236	233	316	233	229	258	278	293	291	282	290	293	294	317	43	79	94	84	74	74	82	291	WNW	
5-Jul-07	77	304	302	321	328	252	234	238	264	283	292	293	308	308	310	310	304	299	282	293	295	295	261	217	289	WNW	
6-Jul-07	218	230	271	229	261	234	230	234	239	249	260	247	251	235	263	260	268	275	271	265	271	245	226	223	250	WSW	
7-Jul-07	224	230	239	240	260	271	243	240	249	268	285	283	276	246	263	282	280	282	306	303	319	47	64	169	264	W	
8-Jul-07	354	345	17	307	269	298	91	99	104	141	271	285	310	304	323	260	269	197	150	157	177	78	140	189	263	W	
9-Jul-07	252	246	280	278	279	285	284	289	296	292	291	294	291	287	284	275	284	279	278	298	231	228	225	224	278	W	
10-Jul-07	226	240	287	256	270	242	267	244	278	282	283	280	298	298	290	259	255	255	269	255	245	236	235	223	262	W	
11-Jul-07	226	245	255	248	166	217	237	239	250	272	281	299	299	288	300	310	312	311	307	333	74	95	103	147	276	W	
12-Jul-07	139	182	240	284	277	246	243	241	255	243	283	286	269	280	293	297	297	276	320	355	75	84	96	94	274	W	
13-Jul-07	287	211	233	328	86	112	165	142	103	101	96	92	91	83	88	87	81	86	84	87	79	77	91	224	98	E	
14-Jul-07	253	218	235	274	260	314	272	249	245	280	263	279	301	266	279	307	305	305	323	343	13	49	1	278	288	WNW	
15-Jul-07	312	304	299	322	43	296	197	133	91	91	93	225	303	292	288	303	317	292	259	249	264	305	298	222	291	WNW	
16-Jul-07	218	264	310	314	307	184	197	247	322	301	249	229	250	229	250	137	126	144	162	159	161	151	114	112	133	195	SSW
17-Jul-07	154	157	156	190	85	86	111	111	106	97	93	90	86	101	84	82	93	57	38	17	84	257	350	340	90	E	
18-Jul-07	335	136	69	100	303	354	27	80	107	143	244	180	144	135	153	110	100	95	131	246	310	4	110	320	100	E	
19-Jul-07	120	198	69	131	147	148	253	245	281	72	99	123	180	300	277	254	248	196	135	177	195	212	205	188	198	SSW	
20-Jul-07	174	199	183	169	157	157	159	167	172	173	187	190	201	197	192	190	194	166	164	181	282	339	175	239	184	S	
21-Jul-07	235	247	233	214	246	238	251	196	219	224	236	240	251	249	249	242	249	273	247	270	245	232	221	217	240	WSW	
22-Jul-07	229	246	172	137	106	74	71	97	98	117	141	218	253	264	290	262	288	311	291	298	270	307	262	301	260	W	
23-Jul-07	250	238	287	208	255	282	282	285	277	262	262	168	228	202	87	104	101	337	292	311	154	198	155	233	250	WSW	
24-Jul-07	235	221	231	235	236	241	238	242	247	232	235	240	235	252	247	249	251	255	249	243	240	240	243	230	242	WSW	
25-Jul-07	225	226	229	260	276	270	247	253	253	259	273	254	258	273	274	256	254	292	326	28	66	104	141	149	256	WSW	
26-Jul-07	151	122	81	94	97	146	153	162	144	84	93	89	90	107	127	115	115	94	80	71	77	88	83	78	103	ESE	
27-Jul-07	64	43	40	6	36	93	134	227	327	332	11	14	30	66	58	63	280	275	292	286	163	113	96	107	25	NNE	
28-Jul-07	330	236	153	146	190	179	309	317	293	292	315	320	222	109	159	77	62	112	114	110	93	96	24	313	114	ESE	
29-Jul-07	313	72	33	74	286	12	360	33	38	22	343	341	342	332	298	311	358	26	300	325	318	281	241	169	338	NNW	
30-Jul-07	184	231	247	261	244	241	226	242	229	233	239	242	246	234	253	252	246	248	256	258	259	278	255	239	245	WSW	
31-Jul-07	217	234	242	218	187	194	220	216	234	247	244	254	243	260	264	269	274	270	276	264	257	243	235	237	248	WSW	
Hourly Avg	227	227	243	234	244	249	240	231	243	250	256	254	258	255	260	261	266	273	275	275	254	246	207	216			

PASZA - Henry Pirker Standard Deviation of Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2007 to August 1, 2007

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
	85.1	68.5	30.8	17.4	11.2	6.8	5.2

Status Flag Characters

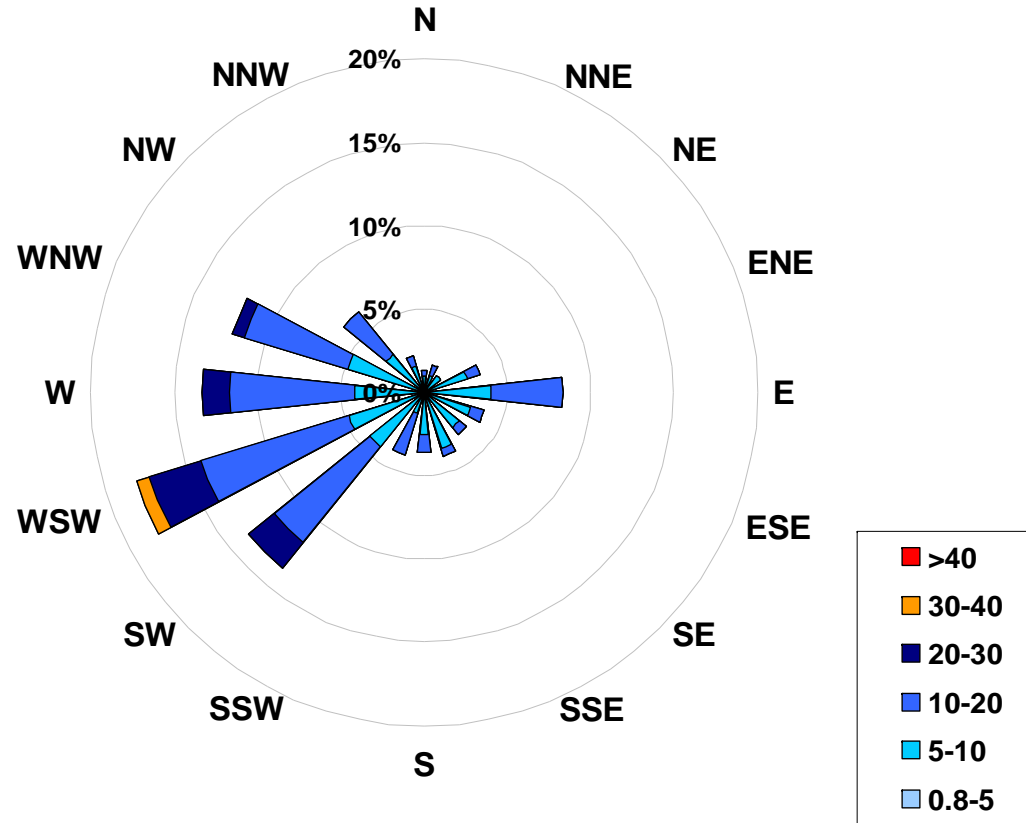
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-07	9	8	6	6	8	56	12	10	9	9	10	11	11	11	14	15	16	14	7	7	8	14	67	46	66.7		
2-Jul-07	31	15	11	18	24	30	15	15	13	17	20	19	14	14	14	15	15	11	8	5	13	12	26	50	50.3		
3-Jul-07	57	43	54	38	17	29	26	28	15	14	16	23	25	22	18	14	10	33	17	8	13	8	17	27	56.5		
4-Jul-07	43	28	51	47	19	51	38	18	18	15	26	58	56	55	48	30	40	25	27	10	10	7	7	5	58.0		
5-Jul-07	13	56	16	14	37	25	18	10	18	8	11	12	15	10	15	12	10	8	7	12	38	12	22	12	56.3		
6-Jul-07	9	8	53	20	30	10	8	7	8	9	10	12	21	19	25	15	10	6	6	6	7	10	7	7	53.5		
7-Jul-07	6	10	10	13	40	32	12	6	8	15	14	16	21	20	18	18	12	11	11	15	40	12	13	77	77.1		
8-Jul-07	33	59	55	51	18	31	17	15	17	45	21	15	12	20	25	62	28	39	16	15	53	76	37	40	76.2		
9-Jul-07	22	9	12	6	6	5	7	10	7	9	9	12	14	11	17	18	13	13	11	24	19	12	8	8	23.6		
10-Jul-07	9	32	25	13	22	9	16	13	19	14	14	15	28	18	23	14	8	8	9	9	10	10	10	7	32.1		
11-Jul-07	7	11	29	68	44	16	10	9	11	12	17	13	19	15	17	12	12	14	14	17	21	8	10	10	68.4		
12-Jul-07	53	32	39	16	24	14	11	9	17	22	27	24	31	26	19	13	23	29	27	33	17	6	7	56	56.4		
13-Jul-07	55	94	75	43	69	15	11	22	22	18	23	15	21	13	16	12	11	11	8	9	5	6	18	28	94.0		
14-Jul-07	62	23	14	17	14	24	18	16	18	17	16	11	19	37	14	13	10	11	15	16	20	28	73	71	72.9		
15-Jul-07	36	57	19	8	76	74	65	31	17	19	26	34	30	28	20	14	14	21	84	62	15	16	33	24	84.2		
16-Jul-07	13	42	30	62	27	33	43	18	28	59	73	57	58	52	64	45	35	31	35	8	13	14	10	33	73.1		
17-Jul-07	13	25	18	67	12	19	25	20	29	26	23	28	24	25	28	16	17	42	32	17	69	64	59	49	69.0		
18-Jul-07	72	95	49	61	25	25	37	16	27	25	67	70	66	23	43	19	28	42	86	44	16	45	74	77	94.8		
19-Jul-07	72	22	69	25	16	19	38	18	11	62	20	20	63	29	19	10	10	47	55	23	12	32	11	11	72.2		
20-Jul-07	17	12	17	18	5	10	11	8	17	10	15	13	15	14	16	20	26	19	27	35	27	86	53	51	85.7		
21-Jul-07	27	7	15	13	11	17	39	9	16	23	15	14	11	13	21	32	15	13	24	9	15	13	18	10	38.6		
22-Jul-07	15	50	38	11	64	16	8	13	13	30	49	48	45	49	62	38	18	9	13	9	14	43	44	26	64.1		
23-Jul-07	74	91	16	37	27	11	14	16	14	28	40	63	37	70	28	19	19	58	9	20	74	28	30	36	90.9		
24-Jul-07	28	11	10	10	21	9	7	10	8	11	11	11	15	7	8	7	9	7	8	6	5	5	5	9	27.5		
25-Jul-07	7	8	9	24	34	24	9	10	11	15	12	16	21	21	25	20	32	38	30	43	73	16	11	4	73.3		
26-Jul-07	9	42	7	19	7	29	22	14	49	37	21	24	30	27	23	46	40	49	20	10	16	8	7	12	49.1		
27-Jul-07	15	17	20	14	31	17	32	45	14	17	27	26	36	72	68	91	59	12	18	21	84	26	8	11	91.1		
28-Jul-07	76	79	23	42	27	81	43	11	30	20	49	51	89	55	87	82	30	37	24	59	18	13	65	20	89.1		
29-Jul-07	74	27	50	12	70	40	19	23	26	39	35	49	27	63	49	36	50	69	47	14	17	51	31	32	73.6		
30-Jul-07	18	20	9	14	6	7	9	10	12	13	11	16	12	20	15	9	8	10	10	11	10	7	14	13	20.0		
31-Jul-07	11	11	17	10	15	15	12	12	11	6	8	10	7	12	8	7	5	7	5	6	8	7	10	7	17.4		

Hourly Max	76	95	75	68	76	81	65	45	49	62	73	70	89	72	87	91	59	69	86	62	84	86	74	77
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1-hr Average Wind Rose (in km/hr) Located at the Henry Pirker Site for July 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	7
5	to	10	331
10	to	20	344
20	to	30	56
30	to	40	6
	>	40	0
Total Non-Zero Values			744

PASZA – Evergreen Park Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Evergreen Park Sulphur Dioxide Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

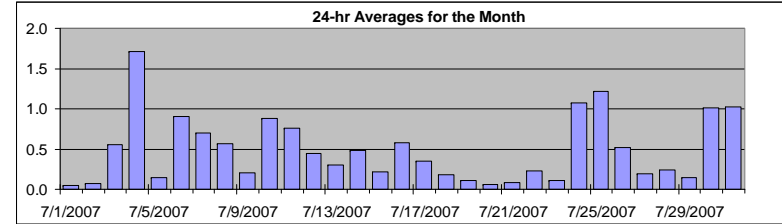
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	9.9 ppb	4-Jul	8:00	9:00
Maximum 24-hr Average:	1.7 ppb	4-Jul		



AIC Time:	31 hrs	Operational Time:	709 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	6.3	2.4	0.3	0.1	0.1	0.0	0.0	0.5 ppb	0.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
2-Jul-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.4
3-Jul-07	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	1	0	0	0	0	0	2	A	6	0.6	5.5	
4-Jul-07	3	1	0	0	0	0	1	10	10	7	2	1	1	1	1	0	0	0	0	0	0	A	0	0	1.7	9.9	
5-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.2	0.4	
6-Jul-07	0	0	0	0	0	0	0	4	5	0	3	0	2	1	0	2	0	1	0	A	0	0	0	0	0.9	5.0	
7-Jul-07	0	0	0	0	0	0	0	2	7	2	0	0	1	1	2	0	0	0	A	0	0	0	0	0	0.7	6.9	
8-Jul-07	0	0	0	0	0	0	0	0	0	2	5	2	0	0	0	0	0	A	1	0	0	0	0	0	0.6	4.6	
9-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	2	0	0	0	0	0	0	0.2	2.1	
10-Jul-07	0	0	0	0	0	0	0	1	2	4	1	0	0	0	0	A	1	6	3	1	0	0	0	0	0.9	5.7	
11-Jul-07	0	0	0	0	0	0	0	5	1	5	2	1	0	0	A	0	1	1	0	0	0	0	0	0	0.8	5.3	
12-Jul-07	0	0	0	0	0	0	0	1	3	2	2	0	C	C	C	S	0	0	0	0	0	0	0	0	0.5	2.6	
13-Jul-07	0	0	0	0	0	A	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	1	0	0	0.3	0.7	
14-Jul-07	0	0	0	0	A	0	0	0	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.5	3.0	
15-Jul-07	0	0	0	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6	
16-Jul-07	0	0	A	0	0	0	0	1	0	1	1	0	1	1	1	1	1	0	1	0	0	0	0	0	0.6	1.5	
17-Jul-07	0	A	0	0	0	0	0	2	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0.4	1.8	
18-Jul-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	A	0.2	0.9	
19-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.4
20-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.1	0.1	
21-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.1	0.2	
22-Jul-07	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.2	2.8	
23-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.1	0.2	
24-Jul-07	0	0	0	0	0	0	0	4	1	0	0	0	0	0	1	7	6	4	0	0	0	0	0	0	1.1	7.5	
25-Jul-07	0	0	0	0	0	A	4	5	5	0	1	2	0	2	3	1	1	3	0	0	0	0	0	0	1.2	5.3	
26-Jul-07	0	0	0	0	A	0	0	0	0	1	0	1	1	1	1	2	1	2	1	0	0	0	0	0	0.5	1.8	
27-Jul-07	0	0	0	A	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6	
28-Jul-07	0	0	0	0	0	A	0	0	0	0	0	1	0	1	1	0	0	0	0	1	0	0	0	0	0.2	1.0	
29-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
30-Jul-07	0	0	0	A	0	0	0	0	0	0	0	1	2	3	1	5	0	7	0	0	0	0	0	0	1.0	6.9	
31-Jul-07	0	0	A	0	0	0	0	0	3	0	0	0	1	8	6	0	0	1	1	0	0	0	0	0	1.0	8.0	
Hourly Avg	0.2	0.1	0.1	0.1	0.1	0.1	0.3	1.2	1.5	1.0	0.7	0.5	0.5	0.7	0.7	0.8	0.5	1.0	0.4	0.2	0.2	0.2	0.1	0.3			
Hourly Max	3.5	0.6	0.3	0.2	0.4	0.3	3.7	9.6	9.9	6.7	4.6	2.2	2.4	8.0	5.7	7.5	6.4	6.9	2.7	1.1	0.4	2.2	0.5	5.5			

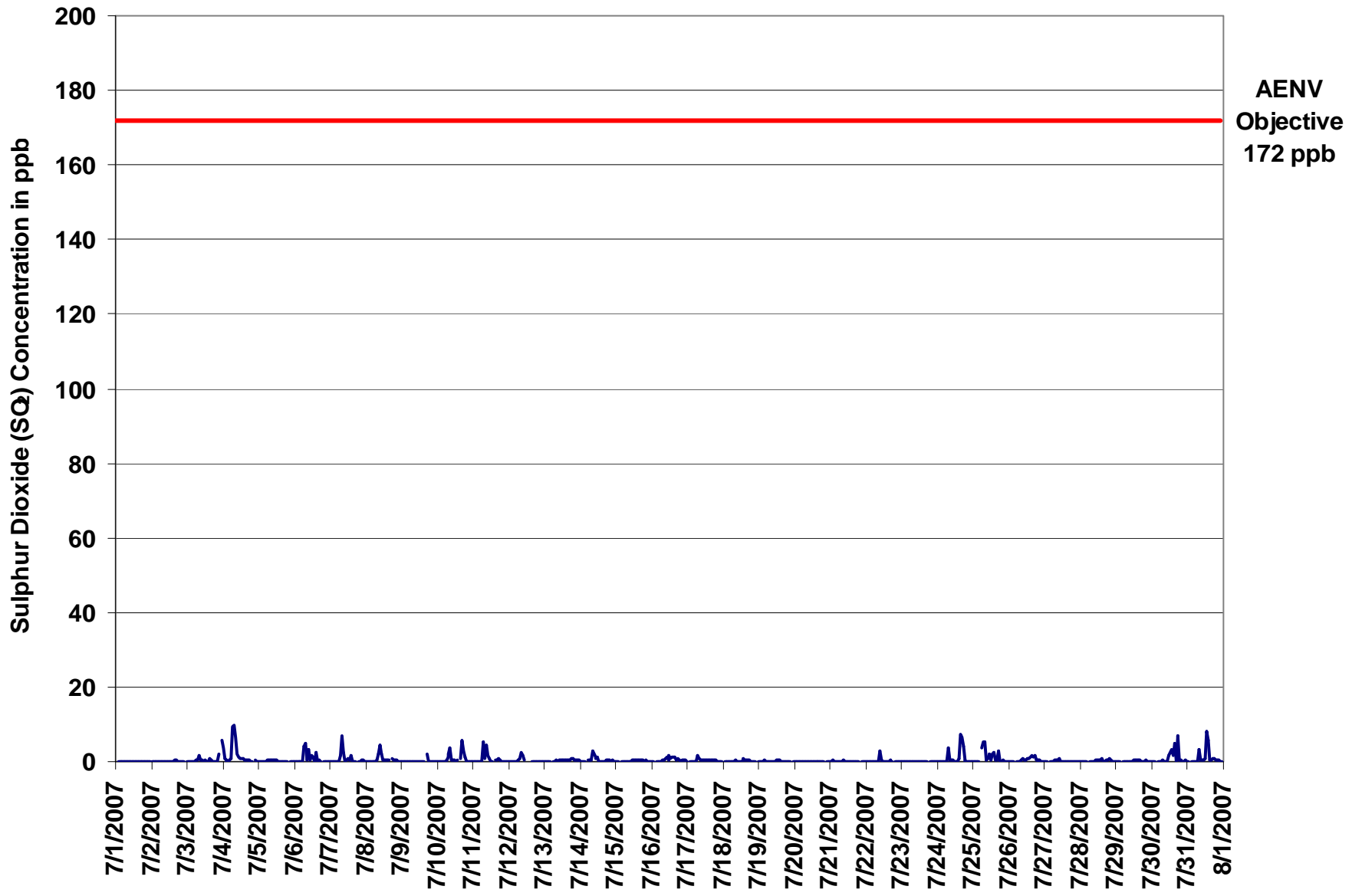


Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

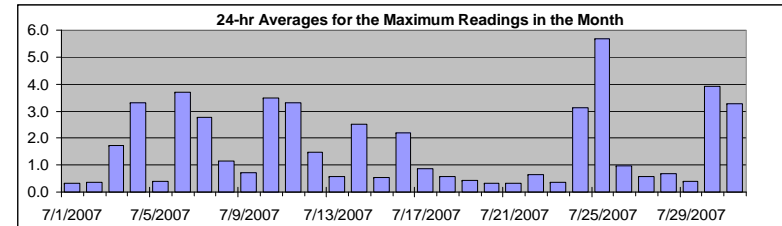
Sulphur Dioxide (SO₂)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	20.6	ppb	4-Jul	8:00 9:00
Maximum 24-hr Value:	5.7	ppb	25-Jul	

AIC Time:	2 hrs	Operational Time:	709 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	95.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	16.1	10.2	0.7	0.4	0.3	0.3	0.0	1.6 ppb	0.4 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jul-07	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.3	0.6
2-Jul-07	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	A	0.3	0.8
3-Jul-07	0	0	0	0	0	0	1	1	6	1	5	1	1	1	0	5	3	0	0	0	1	3	A	8	1.7	7.9
4-Jul-07	6	1	1	0	0	1	1	18	21	14	4	1	1	1	1	1	1	1	1	0	0	A	0	0	3.3	20.6
5-Jul-07	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.4	0.7
6-Jul-07	0	0	0	0	0	0	0	13	13	1	12	6	8	10	0	9	1	7	1	A	1	0	0	0	3.7	12.8
7-Jul-07	0	0	0	0	0	0	0	8	16	11	0	2	6	4	10	0	0	0	A	0	0	1	1	0	2.8	15.6
8-Jul-07	0	0	0	0	0	0	0	0	1	5	8	4	1	1	1	1	A	1	1	1	1	0	0	0	1.2	8.5
9-Jul-07	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	A	9	0	1	0	0	0	0	0.7	9.4
10-Jul-07	0	0	0	0	0	0	2	7	7	13	3	0	1	0	4	A	5	15	11	7	0	0	0	0	3.5	15.2
11-Jul-07	0	0	0	0	0	0	0	13	7	15	8	12	1	0	A	5	8	2	1	0	1	0	0	0	3.3	15.4
12-Jul-07	0	0	0	0	0	0	1	5	8	7	7	1	C	C	C	A	0	0	0	0	0	0	0	0	1.5	7.6
13-Jul-07	0	0	0	0	0	A	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	1.2
14-Jul-07	0	0	0	0	A	1	1	1	14	10	8	8	10	0	0	0	0	1	1	1	0	1	0	0	2.5	13.9
15-Jul-07	0	0	0	A	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0.5	1.3
16-Jul-07	0	0	A	0	0	0	1	2	0	7	6	1	7	1	12	2	2	1	2	1	0	1	1	1	2.2	11.9
17-Jul-07	0	A	0	0	0	0	0	4	4	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0.9	3.9
18-Jul-07	A	0	0	0	0	0	0	0	1	0	0	0	0	1	2	1	1	1	1	0	0	0	0	A	0.6	1.8
19-Jul-07	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	A	0	0.4	0.9
20-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	0.4
21-Jul-07	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	0.6
22-Jul-07	0	0	0	0	0	0	0	0	1	5	2	0	0	0	0	0	1	0	0	A	0	0	0	0	0.6	5.3
23-Jul-07	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	A	0	0	0	0	0	0.4	0.6
24-Jul-07	0	0	0	0	0	0	1	13	3	1	1	1	0	0	5	14	16	16	0	0	0	0	0	0	3.1	16.2
25-Jul-07	0	0	0	0	0	A	12	13	14	1	10	11	2	16	14	10	7	17	0	0	1	0	0	0	5.7	17.2
26-Jul-07	0	0	0	0	A	1	1	0	1	1	1	1	1	2	2	3	2	3	1	1	0	0	0	0	1.0	2.9
27-Jul-07	0	0	0	A	0	0	0	3	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0.6	2.8
28-Jul-07	0	0	0	0	0	A	0	0	0	0	1	1	1	2	2	1	0	0	2	1	1	1	0	0	0.7	1.7
29-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0.4	0.6
30-Jul-07	0	0	0	A	0	0	0	3	0	0	1	10	9	14	12	17	1	17	1	0	0	0	0	1	3.9	17.2
31-Jul-07	0	0	A	1	0	0	0	10	1	1	0	11	15	19	1	1	6	4	1	1	1	1	0	1	3.3	18.7
Hourly Avg	0.5	0.4	0.3	0.4	0.4	0.4	0.9	3.5	4.3	3.2	2.7	2.1	2.2	2.5	3.1	2.7	1.8	3.4	1.1	0.7	0.4	0.5	0.4	0.6		
Hourly Max	5.9	1.4	0.6	1.4	0.9	0.6	12.4	18.4	20.6	15.4	12.4	11.9	10.9	16.3	18.7	17.1	16.2	17.2	11.4	7.5	0.9	3.2	1.2	7.9		

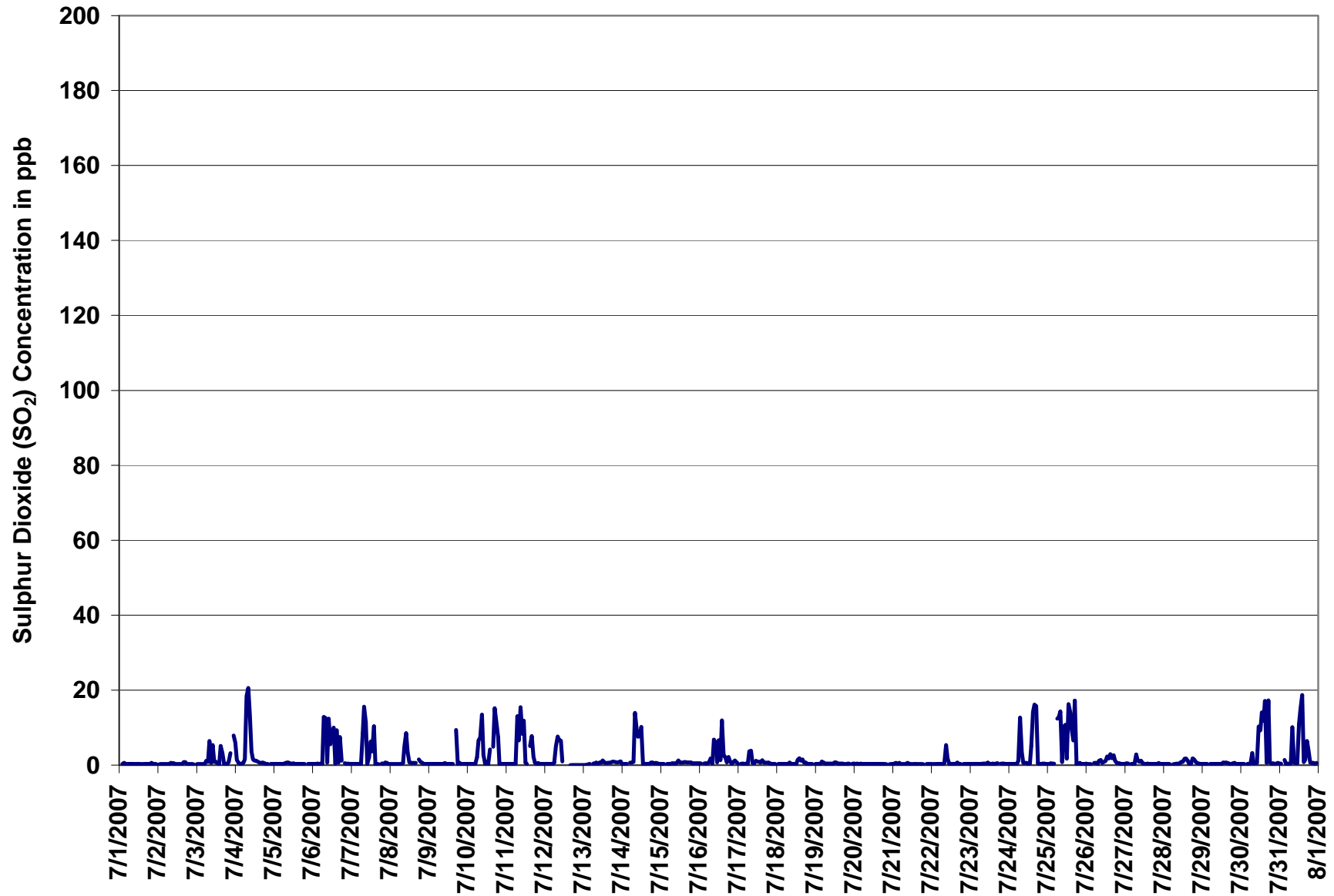
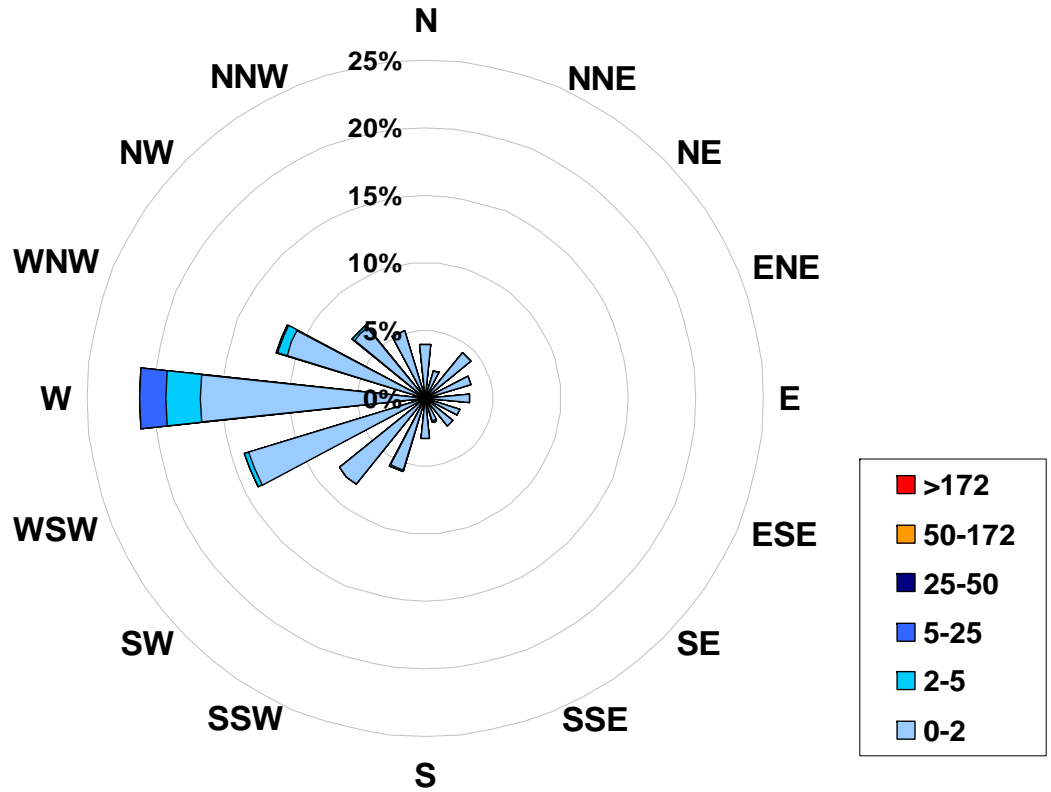


Figure 21. PASZA - Evergreen Park Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	666
2	to	5	28
5	to	25	15
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			709

PASZA - Evergreen Park Total Reduced Sulphur Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

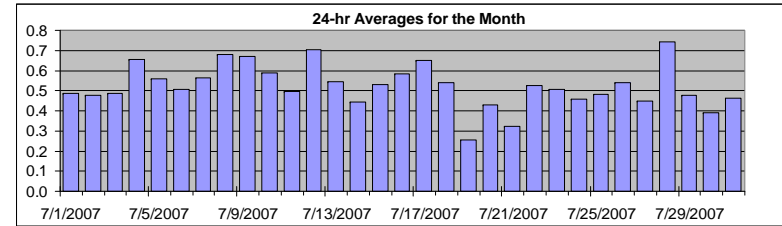
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Maximum 1-hr Average:	1.5	ppb	5-Jul	4:00 5:00
Maximum 24-hr Value:	0.7	ppb	28-Jul	



AIC Time:	31 hrs	Operational Time:	709 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.2	0.9	0.6	0.5	0.4	0.2	0.1	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 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-Jul-07	0	A	1	1	1	1	1	0	1	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0.5	0.6	
2-Jul-07	A	0	0	1	1	1	0	0	0	0	1	0	0	0	1	1	0	0	1	1	1	1	A	0.5	0.6	
3-Jul-07	1	1	0	0	0	0	1	1	1	1	0	0	0	0	0	1	0	0	0	0	1	0	A	0.5	0.7	
4-Jul-07	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.7	0.8	
5-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	A	0	0	0.6	1.5	
6-Jul-07	0	0	0	1	1	0	1	1	1	0	1	0	0	0	0	1	0	0	0	A	1	1	1	0.5	0.8	
7-Jul-07	1	1	1	0	1	1	1	0	1	1	1	0	0	0	0	0	0	1	A	1	1	1	1	0.6	0.9	
8-Jul-07	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0	0.7	1.4	
9-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.7	1.0	
10-Jul-07	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	A	1	1	1	1	1	0	0	0.6	0.9	
11-Jul-07	0	0	1	0	1	1	1	1	1	1	1	0	0	0	A	0	0	0	0	0	0	0	0	0.5	0.9	
12-Jul-07	0	1	0	0	0	0	0	0	0	0	C	C	C	S	0	1	1	1	1	1	1	1	1	0.7	1.2	
13-Jul-07	1	1	1	1	1	A	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0.5	1.2	
14-Jul-07	0	0	0	1	A	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4	0.8	
15-Jul-07	1	1	1	A	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	0.5	1.2	
16-Jul-07	0	0	A	1	1	1	1	1	0	0	0	1	0	0	1	1	1	1	1	1	1	1	0	0.6	0.9	
17-Jul-07	1	A	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	1	0.7	1.1	
18-Jul-07	A	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	A	0.5	1.1	
19-Jul-07	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.6
20-Jul-07	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	A	1	0.4	0.6	
21-Jul-07	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	0.6	
22-Jul-07	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	1	A	1	1	1	0.5	1.5	
23-Jul-07	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	1	1	0	0	0.5	1.0	
24-Jul-07	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0.5	0.8	
25-Jul-07	0	0	0	1	1	A	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0.5	0.7	
26-Jul-07	1	1	0	1	A	1	1	1	1	1	1	0	1	1	1	1	0	0	0	0	0	0	1	0.5	1.3	
27-Jul-07	1	1	1	A	1	1	0	1	1	1	0	0	0	0	1	0	1	0	0	0	0	0	1	0.5	0.7	
28-Jul-07	1	1	1	1	1	A	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0.7	0.9	
29-Jul-07	1	1	1	1	A	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.0	
30-Jul-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0.4	0.6	
31-Jul-07	0	0	A	1	0	0	0	0	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0.5	0.6	
Hourly Avg	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5			
Hourly Max	1.0	0.8	1.2	1.1	1.5	1.1	1.3	1.1	1.0	1.3	1.4	1.2	1.0	0.7	0.7	1.1	1.2	1.2	1.1	1.1	1.0	1.5	0.9	0.9		

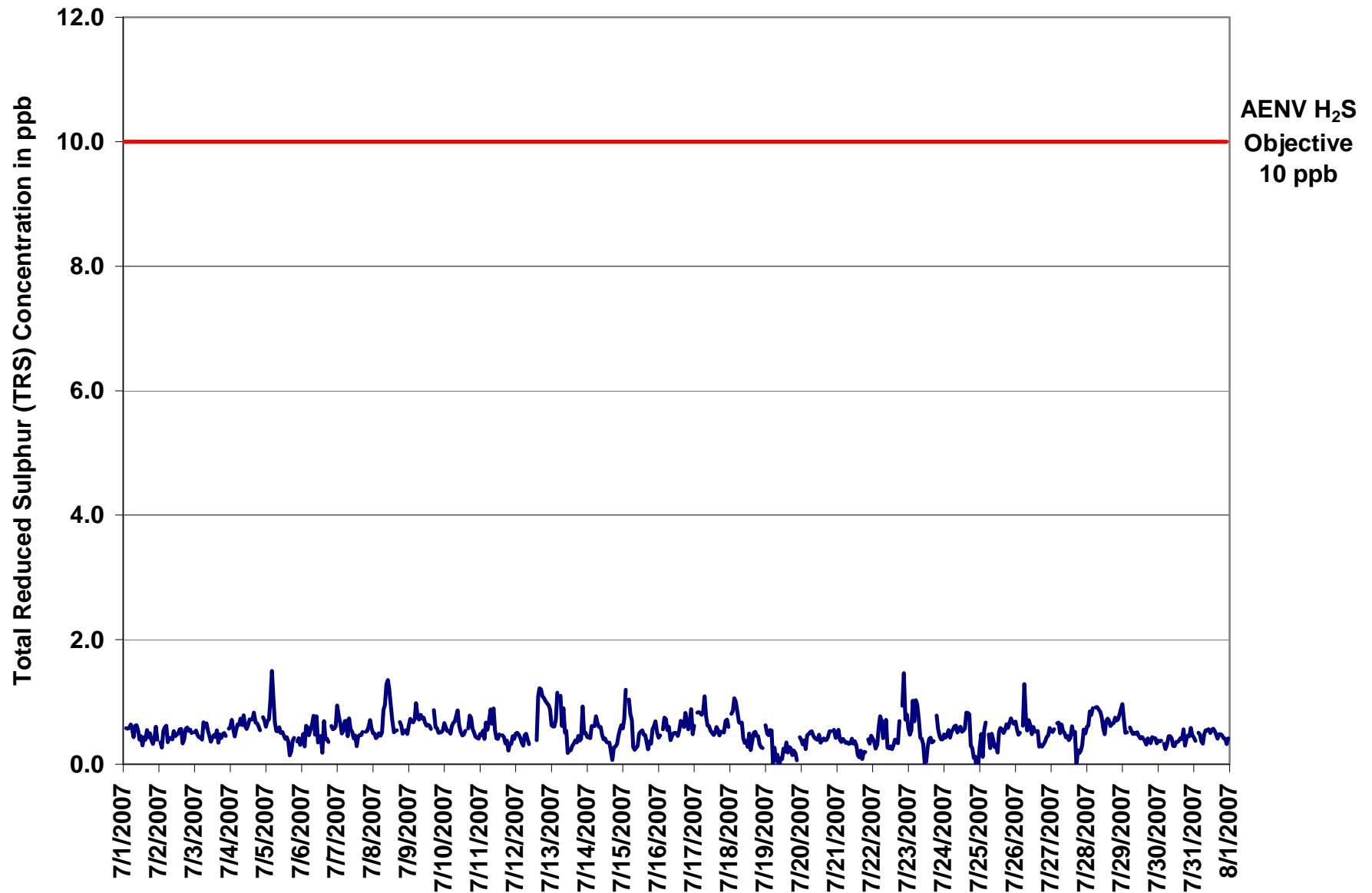


Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

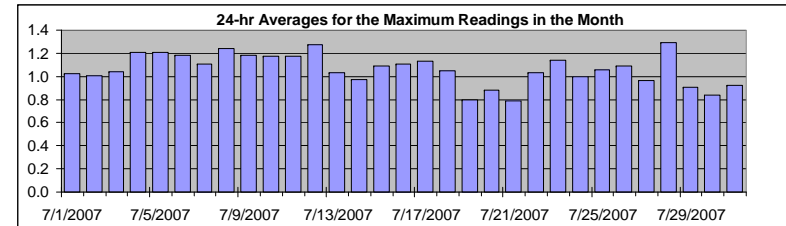
Total Reduced Sulphur (TRS)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	3.4	ppb	23-Jul	3:00 4:00
Maximum 24-hr Value:	1.3	ppb	28-Jul	

AIC Time:	1 hrs	Operational Time:	709 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	95.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.3	1.6	1.2	1.0	0.9	0.7	0.6	1.1 ppb	1.0 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jul-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.3
2-Jul-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.0	1.2
3-Jul-07	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.0	1.5
4-Jul-07	1	1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.2	1.6
5-Jul-07	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1.2	2.3
6-Jul-07	1	1	1	1	1	1	1	1	2	1	2	1	1	1	1	2	1	1	1	A	1	1	1	1	1.2	1.9
7-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1.1	1.5
8-Jul-07	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	A	1	1	1	1	1	1	1.2	2.3
9-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1.2	1.5
10-Jul-07	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	A	1	1	2	2	1	1	1	1	1.2	2.3
11-Jul-07	1	1	1	1	1	1	1	1	2	3	1	2	1	1	A	1	1	1	1	1	1	1	1	1	1.2	3.3
12-Jul-07	1	1	1	1	1	1	1	2	1	1	C	C	C	A	1	2	2	2	2	2	1	2	1	1	1.3	1.8
13-Jul-07	1	1	1	1	2	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.9
14-Jul-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.5
15-Jul-07	1	1	3	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.8
16-Jul-07	1	1	A	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	2	1	1.1	1.6
17-Jul-07	1	A	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1.1	1.7
18-Jul-07	A	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.0	1.7
19-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	1.4
20-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.9	1.2
21-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	A	1	1	1	0.8	1.4
22-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	2	2	1	1	1.0	2.2
23-Jul-07	1	1	1	3	1	2	2	1	1	1	1	1	1	1	1	1	1	1	A	2	1	1	1	1	1.1	3.4
24-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1.0	1.7
25-Jul-07	1	1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.8
26-Jul-07	1	1	1	1	A	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.7
27-Jul-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.2
28-Jul-07	1	1	1	1	1	A	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.3	2.5
29-Jul-07	2	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	1.7
30-Jul-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
31-Jul-07	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.9
Hourly Avg	1.0	1.0	1.1	1.2	1.2	1.2	1.3	1.2	1.2	1.1	1.0	1.0	0.9	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0		
Hourly Max	1.7	1.4	2.8	3.4	2.3	2.1	2.7	2.1	1.8	3.3	2.3	2.3	1.3	1.4	1.3	1.8	1.7	1.7	2.3	1.8	1.6	2.2	1.6	1.4		

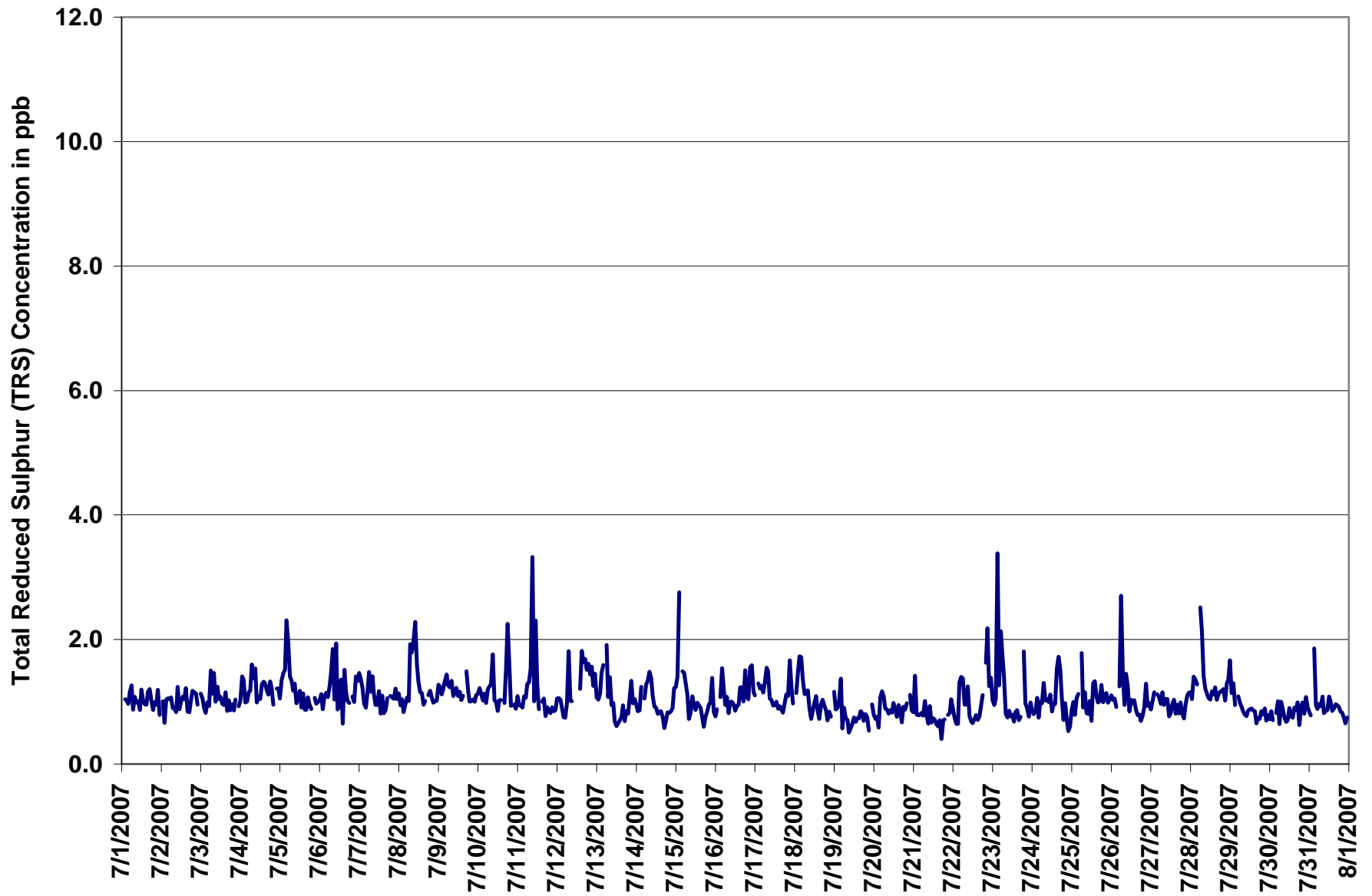
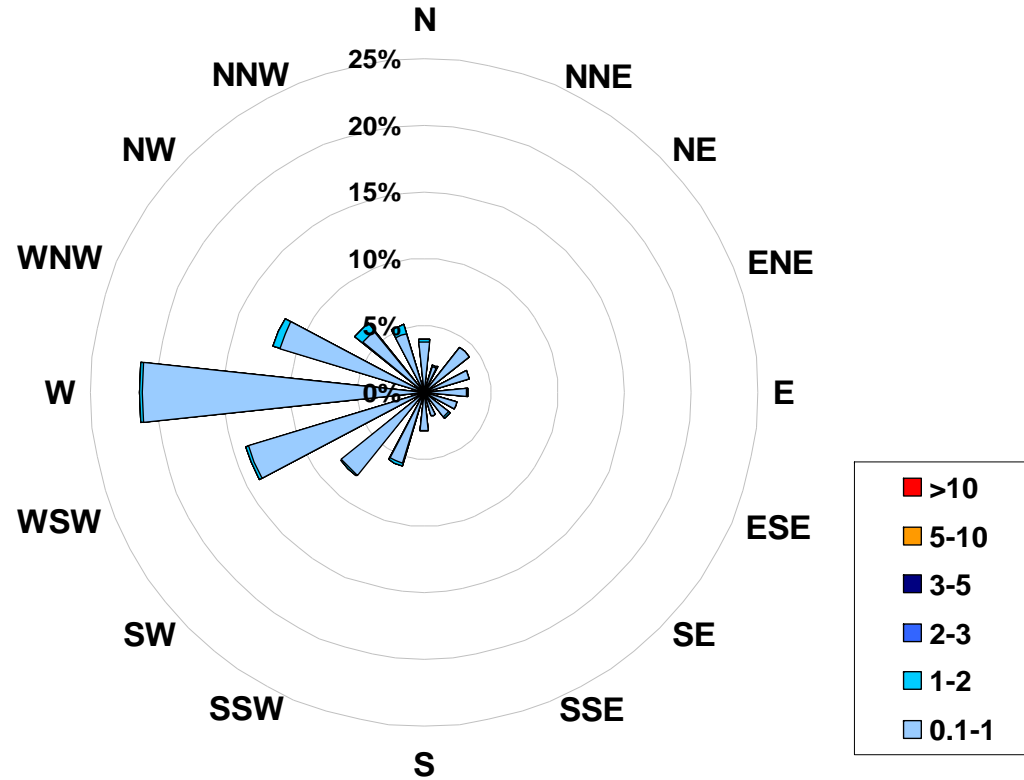


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	686
1	to	2	23
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			709

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

Station: Evergreen Park
 Station Owner: PASZA

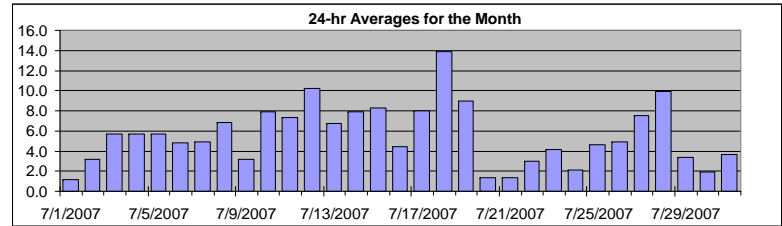
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	50.1 µg/m ³ 12-Jul 6:00 7:00
Maximum 24-hr Value:	13.9 µg/m ³ 18-Jul



AIC Time:	0 hrs	Operational Time:	730 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	98.8%
Percentile	99	95	75
	21.6	15.3	8.0
	50	25	5
	4.2	1.8	0.0
	1	0.0	0.0
	Average / Median		5.6
	4 µg/m ³		4.7 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-Jul-07	1	0	0	0	0	0	0	0	0	1	1	1	1	1	0	1	1	1	2	2	4	3	3	5	1.2	5.1	
2-Jul-07	5	2	4	3	3	3	4	4	2	2	2	1	2	2	2	2	3	2	2	4	5	7	5	6	3.2	7.0	
3-Jul-07	5	5	5	6	8	5	10	13	11	6	4	6	3	6	0	4	7	6	3	3	6	6	4	5	5.7	13.2	
4-Jul-07	7	6	3	2	4	9	12	14	12	15	4	3	3	2	3	4	3	4	4	2	4	5	6	4	5.7	15.0	
5-Jul-07	5	6	6	6	6	10	17	16	15	2	5	5	6	2	2	2	1	3	6	2	5	4	2	2	5.7	16.8	
6-Jul-07	1	1	3	5	7	7	7	12	14	1	6	5	7	4	1	8	4	5	4	2	3	6	3	1	4.9	14.5	
7-Jul-07	2	3	3	4	4	11	8	9	18	6	3	4	2	1	7	3	1	2	4	3	8	4	5	5	4.9	17.6	
8-Jul-07	7	6	8	7	7	8	6	8	4	6	17	15	12	2	0	2	11	6	9	6	6	4	5	5	6.8	16.5	
9-Jul-07	4	0	0	2	4	2	3	4	3	3	3	3	2	4	3	4	4	9	2	6	7	4	0	1	3.1	8.9	
10-Jul-07	2	2	4	2	3	14	20	17	13	11	1	1	1	2	5	17	13	22	15	9	9	4	2	1	7.9	22.4	
11-Jul-07	2	2	2	3	3	17	32	22	11	22	3	3	1	3	2	4	5	3	3	4	9	8	7	7	7.3	32.4	
12-Jul-07	7	6	6	5	5	12	50	19	23	23	15	5	6	3	2	3	1	2	3	9	13	7	10	10	10.2	50.1	
13-Jul-07	9	8	10	9	7	11	15	9	15	10	7	3	5	0	0	3	0	4	7	5	4	7	13	6.8	15.1		
14-Jul-07	9	2	3	4	4	8	10	16	17	11	10	7	8	4	10	6	5	6	6	11	14	6	7	7	7.9	17.4	
15-Jul-07	5	5	7	7	5	11	8	5	6	3	11	16	14	11	7	10	9	12	12	8	13	5	D	0	8.2	15.8	
16-Jul-07	0	0	0	0	1	7	11	11	3	1	3	1	2	0	5	7	11	7	12	8	3	4	5	5	4.4	12.2	
17-Jul-07	8	5	5	3	2	10	9	7	6	3	2	8	7	10	11	14	13	16	13	13	15	0	8	5	8.0	16.5	
18-Jul-07	4	1	10	13	11	7	15	17	13	11	10	15	14	16	15	15	18	16	20	25	16	14	19	18	13.9	25.1	
19-Jul-07	17	18	11	13	8	12	12	14	9	14	11	13	15	13	17	D	0	0	0	0	0	0	D	0	0	8.9	17.5
20-Jul-07	0	0	0	D	0	0	0	0	0	0	D	0	0	0	0	0	0	0	3	10	15	0	0	1	1.3	15.3	
21-Jul-07	0	2	0	0	0	1	2	3	0	2	0	0	D	1	0	0	0	3	10	0	2	5	1	0	1.4	9.9	
22-Jul-07	3	5	1	3	3	8	4	2	D	4	1	3	2	0	1	0	3	4	0	-1	1	9	6	4	3.0	8.5	
23-Jul-07	3	5	4	1	0	2	3	10	9	6	5	6	2	2	4	2	0	2	6	17	8	0	0	4	4.2	16.5	
24-Jul-07	0	0	0	0	0	0	0	11	D	0	D	0	3	6	8	C	C	C	C	4	2	1	1	1	2.2	11.4	
25-Jul-07	1	1	1	1	2	3	11	12	9	1	2	7	1	3	6	3	4	10	1	3	4	6	9	8	4.6	11.7	
26-Jul-07	7	7	4	3	3	4	9	4	3	6	5	1	4	5	5	6	0	3	3	11	5	7	6	7	4.9	10.9	
27-Jul-07	6	6	8	6	11	13	7	10	12	C	6	0	2	4	3	5	4	4	5	8	9	14	13	18	7.5	17.7	
28-Jul-07	14	11	13	15	14	7	10	11	12	9	9	6	9	3	6	27	7	0	4	10	10	8	11	10	9.9	27.0	
29-Jul-07	10	5	0	0	6	4	1	1	4	2	3	4	5	3	4	3	4	13	3	1	0	4	0	0	3.4	13.3	
30-Jul-07	0	0	0	0	0	0	0	0	0	0	0	1	4	1	3	11	3	9	1	3	6	3	1	0	1.9	11.4	
31-Jul-07	0	0	0	0	0	0	1	3	7	6	13	4	5	15	7	4	6	5	4	2	3	2	1	1	3.7	15.2	
Hourly Avg	4.6	3.9	3.9	4.1	4.2	6.7	9.6	9.0	8.7	6.3	5.6	4.7	5.0	4.2	4.5	5.7	4.8	5.8	5.4	6.1	6.8	5.1	4.9	5.0			
Hourly Max	17.4	17.5	13.4	14.6	13.8	16.8	50.1	21.6	23.0	23.2	16.5	15.8	14.9	15.8	16.6	27.0	17.8	22.4	19.8	25.1	16.1	13.9	18.6	18.0			

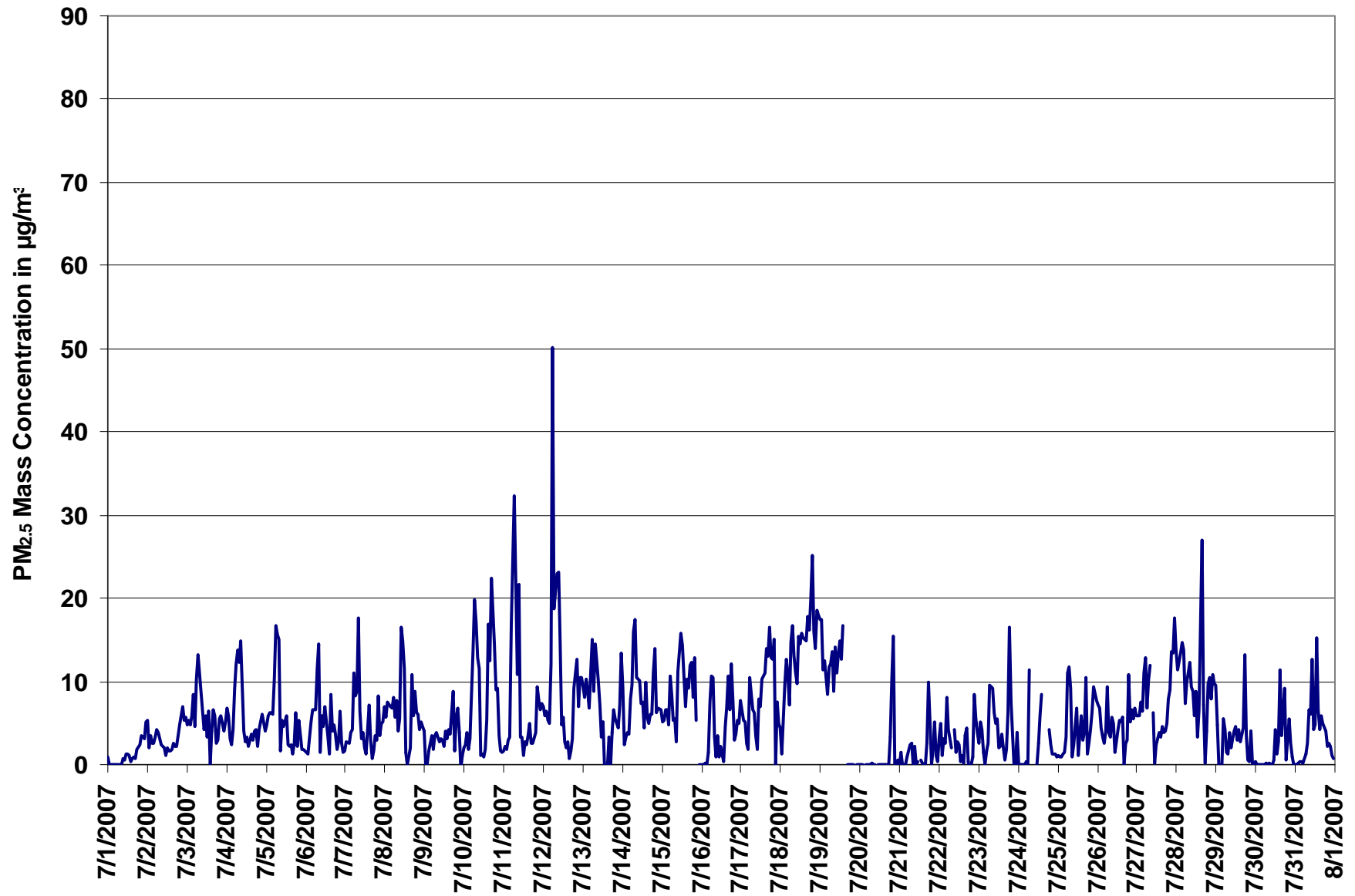


Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

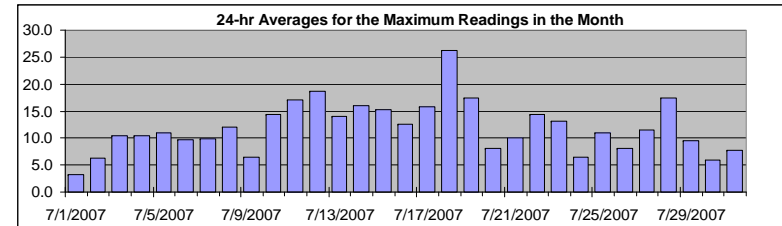
Particulate Matter (PM_{2.5})

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	103.0	µg/m ³	12-Jul	6:00 7:00
Maximum 24-hr Value:	26.2	µg/m ³	18-Jul	

AIC Time:	0 hrs	Operational Time:	736 hrs						
Calibration Time:	1 hrs	AMD Operational Uptime:	99.1%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	39.9	26.9	15.5	9.7	6.1	2.1	0.4	11.9 10 µg/m ³	11.0 µg/m ³



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jul-07	5	1	1	1	1	1	0	2	2	3	3	3	3	4	2	3	4	3	4	4	6	5	7	10	3.2	9.6
2-Jul-07	10	5	6	5	4	5	7	7	7	6	5	4	6	5	4	5	5	5	6	7	9	11	11	7	6.3	10.6
3-Jul-07	8	8	7	10	12	7	19	22	18	10	8	10	10	12	8	9	14	10	6	8	10	9	7	10	10.5	21.8
4-Jul-07	11	8	5	4	7	14	20	20	22	23	8	7	9	7	8	9	8	11	14	5	10	10	8	6	10.5	23.4
5-Jul-07	6	11	7	8	8	13	22	19	19	14	9	10	9	7	7	5	7	14	11	14	17	11	6	10.9	22.0	
6-Jul-07	4	3	6	7	10	9	8	22	23	6	15	12	15	12	8	22	7	8	7	4	5	12	6	3	9.7	23.4
7-Jul-07	3	5	6	8	9	14	13	20	22	18	7	10	9	7	17	6	5	5	8	6	17	6	8	7	9.9	22.4
8-Jul-07	10	9	10	8	9	12	9	11	9	17	22	23	21	11	9	8	23	12	11	12	9	8	6	8	12.0	23.0
9-Jul-07	11	0	2	3	5	3	6	6	5	5	5	7	5	7	7	8	9	18	4	11	12	9	1	3	6.4	18.1
10-Jul-07	4	6	8	4	7	19	25	20	24	19	13	6	6	7	18	34	21	32	24	22	12	8	3	3	14.3	33.9
11-Jul-07	4	4	5	5	6	69	74	30	22	49	19	13	5	6	7	8	14	6	6	10	15	11	12	11	17.1	73.5
12-Jul-07	10	8	10	9	6	31	103	23	28	28	23	14	12	8	10	13	7	8	10	27	24	11	13	14	18.7	103.0
13-Jul-07	11	12	13	10	9	23	25	15	19	15	29	11	14	13	8	8	15	5	9	11	13	11	16	23	14.1	28.8
14-Jul-07	15	10	7	13	9	13	15	23	25	27	18	17	19	20	16	13	9	14	13	24	30	10	15	11	16.1	30.2
15-Jul-07	8	9	10	10	8	20	24	11	12	8	25	27	22	18	12	19	18	21	21	14	21	10	D	4	15.2	26.7
16-Jul-07	4	4	4	1	5	22	22	19	9	15	13	12	12	9	16	17	24	21	20	21	8	8	7	7	12.5	23.8
17-Jul-07	12	8	8	5	4	20	22	14	13	10	12	14	13	17	24	25	20	25	26	21	35	5	14	11	15.9	34.9
18-Jul-07	9	7	14	17	19	10	44	45	28	22	39	36	25	24	31	34	26	26	40	37	20	22	27	27	26.2	44.5
19-Jul-07	28	24	20	14	15	31	25	20	14	21	16	21	38	29	31	D	9	3	8	3	6	D	6	2	17.5	38.0
20-Jul-07	1	3	2	0	2	1	3	4	4	9	0	7	12	7	6	8	7	5	25	35	37	5	4	8	8.1	36.9
21-Jul-07	13	8	2	4	0	5	11	9	6	11	7	8	5	14	11	10	10	10	39	7	8	15	18	10	10.0	38.9
22-Jul-07	16	19	16	8	11	16	11	9	3	15	14	13	13	10	23	23	23	18	15	7	7	25	20	12	14.4	25.3
23-Jul-07	14	16	15	8	3	6	8	17	15	13	15	16	12	12	13	16	17	10	18	31	19	5	7	9	13.1	30.6
24-Jul-07	2	0	2	0	0	4	4	36	7	2	1	4	7	14	19	C	C	C	C	12	8	3	2	2	6.5	36.5
25-Jul-07	2	2	2	3	3	7	22	21	19	4	6	19	5	16	15	14	11	25	4	8	8	15	16	14	10.9	25.2
26-Jul-07	9	9	5	4	4	6	12	9	6	9	10	5	6	7	7	8	8	6	11	20	8	9	7	9	8.1	19.7
27-Jul-07	7	7	11	9	16	16	10	14	20	C	12	4	6	7	6	9	7	7	9	14	17	17	17	21	11.5	21.0
28-Jul-07	21	13	15	17	18	11	13	14	17	14	18	15	13	11	14	53	33	8	15	26	20	10	13	14	17.3	52.6
29-Jul-07	16	15	3	9	12	7	9	4	9	5	8	10	11	11	11	9	11	25	13	5	8	11	2	3	9.5	25.5
30-Jul-07	3	1	1	2	0	2	2	3	4	0	3	7	12	6	13	19	7	16	10	7	12	5	4	1	5.8	19.3
31-Jul-07	1	1	3	2	2	2	4	5	13	19	24	7	13	19	15	9	11	11	7	3	4	3	3	2	7.7	24.0
Hourly Avg	9.0	7.7	7.3	6.8	7.2	13.6	19.0	16.0	14.3	13.9	13.1	12.0	11.8	11.6	12.7	14.7	12.9	12.7	14.0	14.0	13.9	10.2	9.6	8.9		
Hourly Max	28.4	24.2	20.4	17.4	18.9	69.5	103.0	44.5	28.4	48.7	39.0	35.9	38.0	29.0	31.2	52.6	33.3	32.3	40.4	37.5	36.9	25.3	26.9	26.8		

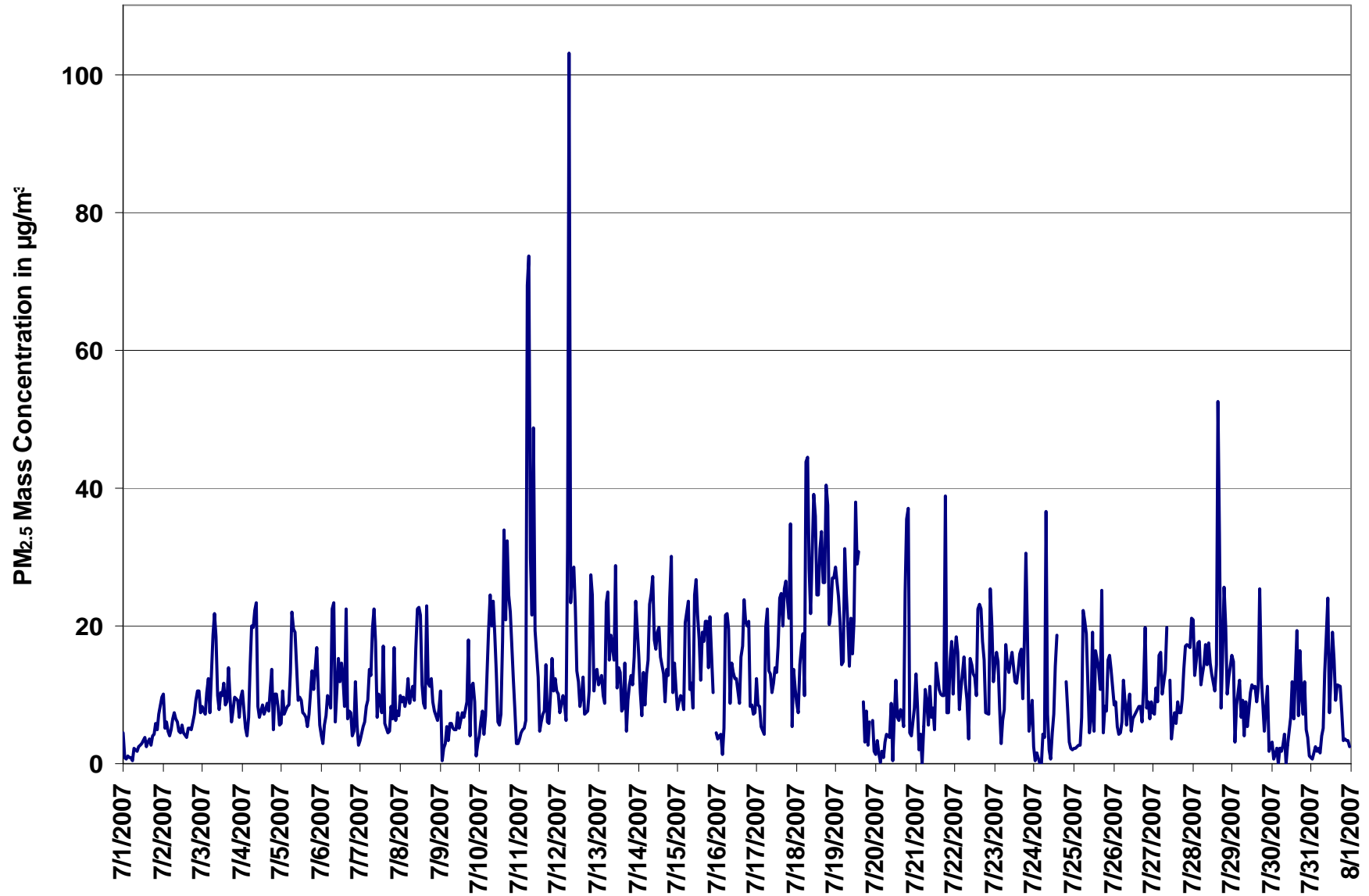
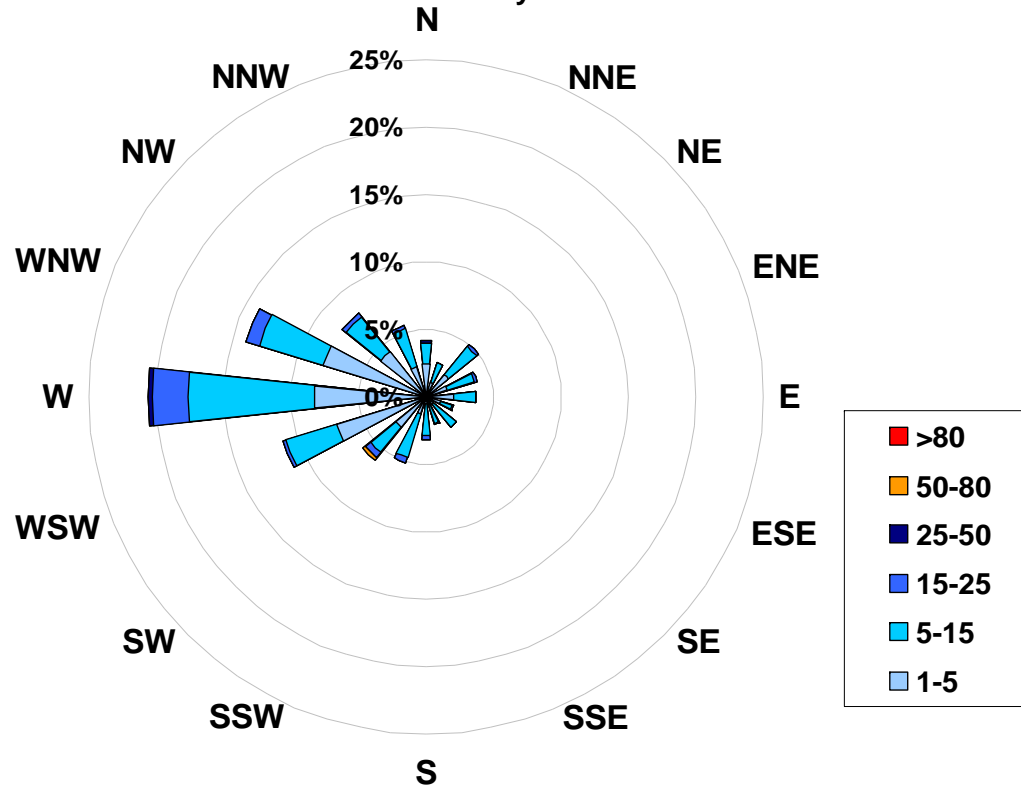


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			Frequency (hrs)
Range			
1.0	<	5	407
5	to	15	281
15	to	25	38
25	to	50	3
50	to	80	1
	>	80	0
Total Non-Zero Values			730

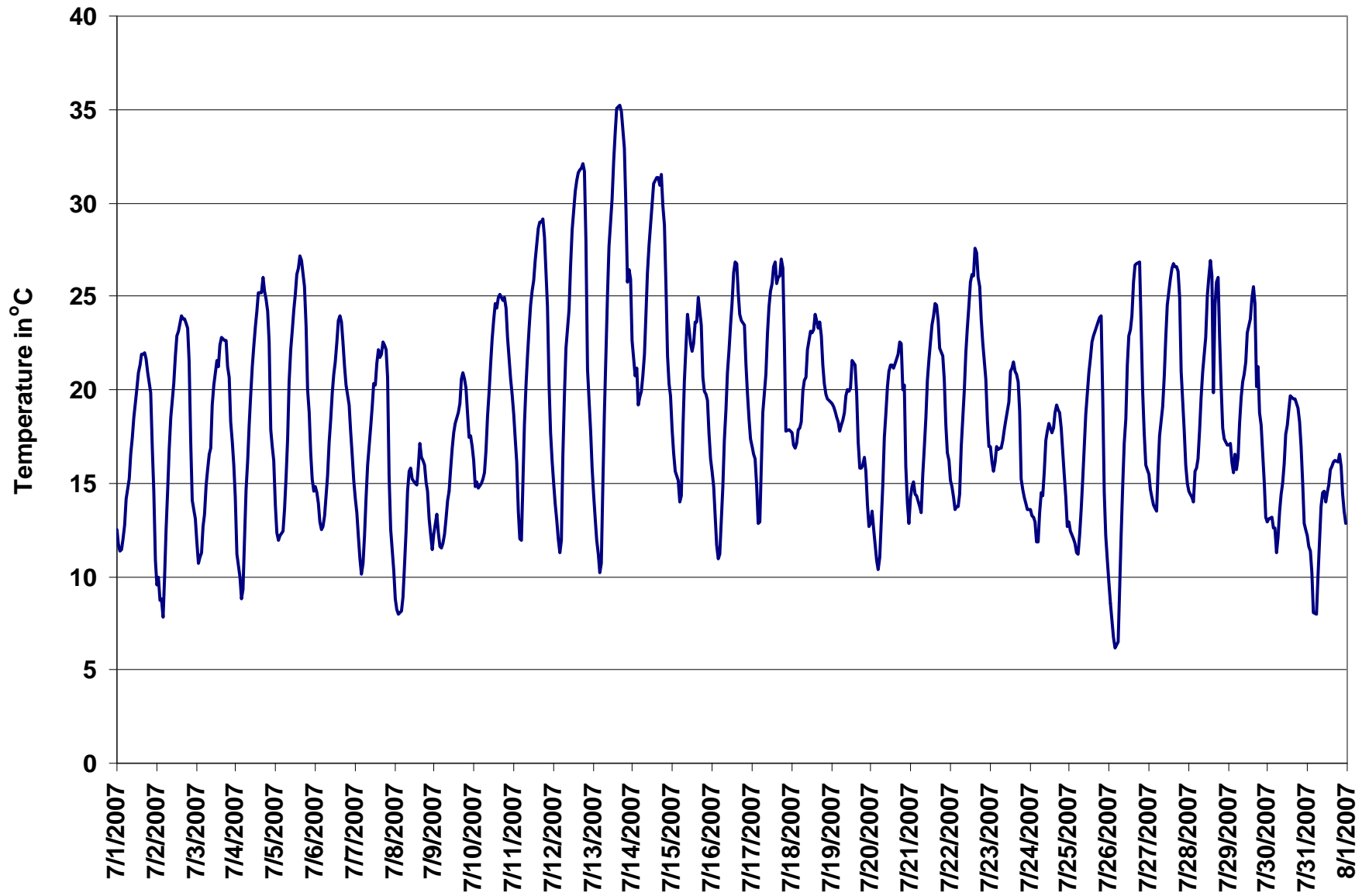


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

PASZA - Evergreen Park Sclar Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

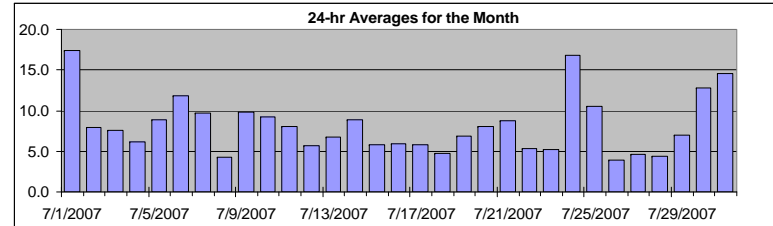
Wind Speed (WSs)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	30.0	km/hr	1-Jul	9:00 10:00
Maximum 24-hr Value:	17.4	km/hr	1-Jul	

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
	25.3	17.8	10.9	6.8	4.6	2.5	2.0	8.2 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Sclar Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
1-Jul-07	15	15	16	14	15	14	18	19	27	30	29	26	24	23	22	21	20	19	14	12	8	6	6	3	17.4	30.0	
2-Jul-07	3	4	3	4	4	6	5	6	7	9	10	15	16	14	15	13	12	12	11	8	6	4	2	3	7.9	15.8	
3-Jul-07	3	3	3	3	7	5	5	7	9	8	9	10	10	12	12	12	12	10	6	7	7	6	6	6	7.5	12.4	
4-Jul-07	5	3	4	3	6	5	8	8	10	9	7	8	8	6	6	6	7	7	7	7	4	5	5	5	6.2	9.5	
5-Jul-07	3	2	2	2	2	6	7	12	12	16	13	13	11	12	12	9	12	14	12	12	7	11	6	6	8.9	15.9	
6-Jul-07	7	9	9	6	7	9	8	11	14	15	16	17	16	15	17	16	16	13	13	11	10	10	9	10	11.8	17.5	
7-Jul-07	9	11	9	8	7	8	8	15	16	15	14	13	13	14	14	11	9	10	9	6	3	5	4	3	9.7	16.2	
8-Jul-07	3	2	2	2	3	2	3	4	6	4	6	7	8	7	6	4	6	5	4	4	3	4	3	3	4.3	7.7	
9-Jul-07	7	14	11	9	8	8	9	12	14	13	15	15	14	11	9	7	9	10	6	6	6	6	7	8	9.8	15.1	
10-Jul-07	6	4	5	4	5	5	5	8	12	11	10	12	11	8	7	14	15	16	14	12	10	11	8	8	9.2	15.6	
11-Jul-07	8	6	6	4	3	3	9	10	12	14	13	13	12	14	12	12	10	8	7	5	4	2	2	3	8.0	14.2	
12-Jul-07	3	3	3	3	3	2	4	8	10	10	9	7	8	9	11	10	8	8	5	4	2	2	2	3	5.7	10.8	
13-Jul-07	2	2	2	2	2	2	4	4	5	5	7	9	9	9	10	10	10	11	11	8	6	6	7	20	6.7	20.2	
14-Jul-07	7	8	7	6	5	6	9	11	10	12	12	11	11	15	14	12	8	9	7	6	9	6	4	5	8.8	14.8	
15-Jul-07	3	3	3	3	3	2	3	5	5	7	5	9	6	8	9	10	8	8	6	5	8	8	7	6	5.8	10.2	
16-Jul-07	7	5	4	2	3	4	5	8	7	7	8	7	6	5	7	6	6	8	5	7	8	7	6	5	6.0	8.5	
17-Jul-07	5	5	4	3	3	3	3	3	5	5	7	8	8	7	7	6	5	5	6	7	14	10	4	4	5.8	14.1	
18-Jul-07	4	3	4	2	8	6	3	5	5	6	5	6	6	6	6	6	3	3	3	6	5	3	4	5	4.8	8.0	
19-Jul-07	5	5	4	4	5	4	5	8	7	5	5	5	6	3	7	6	13	15	6	7	8	11	13	8	7	6.9	15.2
20-Jul-07	6	7	6	5	6	7	7	8	11	12	14	15	16	14	12	10	7	7	5	5	3	3	4	3	8.0	16.2	
21-Jul-07	6	6	8	8	10	6	6	7	10	8	11	16	17	13	11	11	9	6	6	8	10	5	4	5	8.8	17.5	
22-Jul-07	3	3	3	2	4	4	3	4	5	5	7	9	8	8	6	7	11	6	6	6	6	4	4	4	5.3	10.8	
23-Jul-07	4	3	3	5	6	6	7	5	6	5	5	6	4	4	4	5	4	4	13	6	4	6	4	6	5.2	12.8	
24-Jul-07	7	9	8	11	8	6	9	15	16	18	20	26	27	24	26	26	22	20	23	21	21	16	12	11	16.8	27.1	
25-Jul-07	13	14	13	14	13	12	11	15	15	15	15	13	12	13	11	12	11	10	6	4	3	2	3	3	10.5	15.1	
26-Jul-07	2	3	2	2	3	2	3	4	4	4	5	6	8	6	6	5	6	5	4	2	3	3	3	3	3.9	8.2	
27-Jul-07	3	3	3	3	2	2	4	6	7	8	7	8	7	6	6	5	5	4	4	2	3	3	2	2	4.7	8.2	
28-Jul-07	2	2	3	4	5	5	5	3	4	5	4	5	6	6	5	12	5	6	5	3	3	2	3	3	4.4	11.5	
29-Jul-07	5	6	5	7	7	5	6	4	5	7	6	7	8	8	7	6	5	5	12	11	11	8	11	6	7.0	12.2	
30-Jul-07	5	6	6	7	11	8	11	13	13	16	18	17	14	17	19	21	22	19	15	9	11	10	8	9	12.8	22.0	
31-Jul-07	10	12	13	10	7	10	7	9	18	24	25	19	22	20	21	18	16	18	15	12	11	11	12	13	14.6	24.7	
1-hr Average	5.6	5.9	5.6	5.3	5.8	5.7	6.5	8.3	9.9	10.6	10.9	11.5	11.3	11.0	10.9	10.8	10.2	9.4	8.6	7.5	7.1	6.4	5.5	5.8			
Hourly Max	14.8	15.5	16.0	14.0	14.5	14.1	17.8	19.5	27.2	30.0	29.3	26.3	27.1	23.6	25.9	26.0	22.0	20.1	22.8	21.3	20.7	16.0	11.9	20.2			

PASZA - Evergreen Park Vector Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

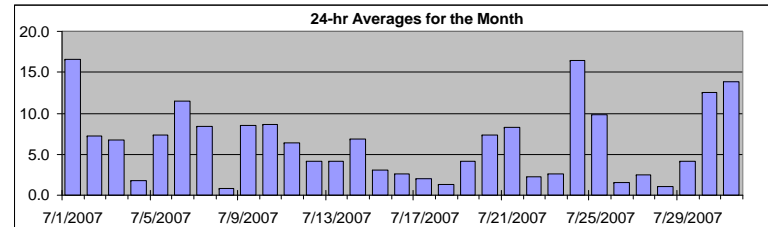
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	29.7	km/hr	1-Jul	9:00 10:00
Maximum 24-hr Value:	16.6	km/hr	1-Jul	



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
	24.8	17.5	10.3	5.9	3.5	1.2	0.5	25.8 km/hr

Status Flag Characters

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

Day Mountain Standard Time

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	24-hr Vector Average	Daily Max
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-Jul-07	15	15	16	14	14	14	18	19	27	30	29	26	23	22	22	21	20	18	14	11	8	6	6	1	16.6	29.7	
2-Jul-07	1	4	2	3	2	6	4	5	6	8	9	14	15	13	14	12	11	11	10	7	6	3	1	2	7.2	14.8	
3-Jul-07	3	1	3	2	6	4	5	7	8	7	8	10	10	12	12	11	12	9	6	7	7	5	5	6	6.8	11.9	
4-Jul-07	4	2	3	1	6	5	8	8	9	8	6	6	6	4	0	5	6	6	7	7	4	5	5	5	1.8	9.2	
5-Jul-07	2	1	2	2	1	6	6	12	11	15	13	12	9	11	8	11	14	12	12	6	10	5	6	6	7.4	15.3	
6-Jul-07	7	9	8	6	7	9	7	11	14	15	15	16	15	13	17	15	16	13	13	10	9	10	9	9	11.5	16.6	
7-Jul-07	9	11	9	7	6	7	8	15	16	14	14	12	11	12	13	10	9	8	7	6	2	5	1	2	8.5	15.9	
8-Jul-07	2	1	2	1	2	1	3	2	5	3	6	6	5	7	5	3	6	5	4	4	1	2	3	2	0.8	6.9	
9-Jul-07	6	14	11	9	7	8	9	11	13	12	15	14	13	10	8	6	8	9	6	5	6	6	7	7	8.5	14.6	
10-Jul-07	6	4	5	4	4	5	5	7	11	11	9	11	10	6	7	13	14	15	14	12	10	11	8	8	8.6	15.4	
11-Jul-07	8	6	6	2	2	1	9	10	12	14	13	11	11	12	11	10	9	8	7	4	4	4	2	1	1	6.4	13.6
12-Jul-07	2	2	3	3	1	2	4	8	9	9	8	5	6	7	9	9	7	7	5	3	1	1	1	1	4.2	9.3	
13-Jul-07	2	1	1	1	1	1	2	4	5	4	5	8	8	8	9	9	9	11	10	8	6	6	5	19	4.1	18.8	
14-Jul-07	5	7	7	4	5	4	8	11	10	11	11	9	9	14	14	11	7	8	7	5	8	5	1	2	6.9	14.0	
15-Jul-07	2	2	3	1	1	2	0	4	4	6	3	8	5	7	8	9	7	6	1	3	7	7	6	5	3.1	8.8	
16-Jul-07	6	1	2	1	2	4	4	7	5	5	7	5	4	2	5	1	5	6	3	6	8	7	5	2	2.6	8.1	
17-Jul-07	4	4	2	2	3	2	2	1	3	3	6	7	6	5	5	5	5	5	6	7	5	8	2	3	2.1	7.6	
18-Jul-07	1	0	2	2	8	5	2	4	4	6	3	5	4	5	4	5	3	2	2	5	4	2	1	1	1.3	7.5	
19-Jul-07	3	5	3	4	4	3	4	8	7	4	5	4	1	6	5	12	15	3	4	8	11	13	7	6	4.1	14.7	
20-Jul-07	6	7	6	5	6	7	7	8	11	12	13	14	16	13	11	9	6	6	3	4	1	1	2	2	7.3	15.6	
21-Jul-07	5	6	8	8	10	6	5	6	9	7	11	15	17	11	10	10	9	6	6	8	10	5	3	4	8.2	16.9	
22-Jul-07	2	2	3	0	3	3	3	3	5	4	5	5	6	6	5	5	10	5	5	6	6	2	2	1	2.3	9.7	
23-Jul-07	2	1	2	5	6	6	6	5	6	5	4	5	2	4	3	4	3	3	12	5	2	5	4	6	2.6	12.4	
24-Jul-07	7	9	8	10	8	6	9	15	16	18	19	25	27	23	25	25	21	20	23	21	21	16	11	11	16.4	26.6	
25-Jul-07	13	14	13	14	13	12	11	15	15	15	14	12	11	12	9	11	10	10	5	3	2	2	3	3	9.8	14.8	
26-Jul-07	1	2	2	1	2	2	3	4	1	1	4	4	7	5	5	4	4	4	4	1	2	2	3	2	1.5	7.5	
27-Jul-07	3	3	3	3	2	1	3	6	6	7	6	7	6	6	4	3	3	4	3	3	0	2	2	1	2.5	7.4	
28-Jul-07	2	1	2	3	5	2	5	1	2	5	3	2	5	3	1	6	4	5	3	1	1	1	1	2	1.1	5.8	
29-Jul-07	4	4	5	7	0	5	5	4	4	5	5	6	6	6	5	4	5	1	11	11	10	7	10	4	4.2	11.4	
30-Jul-07	5	6	6	6	11	8	11	13	13	15	18	16	13	17	18	21	22	18	14	9	11	10	7	9	12.6	21.6	
31-Jul-07	9	12	12	9	7	10	7	9	17	23	24	18	21	20	21	18	16	18	14	12	11	10	12	12	13.9	24.5	
1-hr Vector	4.1	4.6	3.9	3.5	4.2	3.5	4.4	6.4	7.0	7.1	7.4	7.7	7.6	6.7	7.0	6.7	6.1	5.4	5.1	3.9	3.6	2.9	3.4	4.2			
Hourly Max	14.8	15.4	16.0	13.9	14.4	14.0	17.6	19.2	26.8	29.7	28.9	25.8	26.6	23.0	25.1	25.4	21.6	19.6	22.6	21.0	20.5	15.9	11.8	18.8			

PASZA - Evergreen Park Wind Direction Monthly Summary

Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	353.6	335.1	283.7	255.2	197.5	39.1	8.3	270 deg

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	WD Sector
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jul-07	227	227	228	233	238	240	242	242	251	250	251	256	255	253	269	266	268	268	281	277	276	237	220	42	252	WSW
2-Jul-07	305	211	226	243	244	245	214	240	252	276	284	263	278	277	285	283	290	297	287	295	281	316	337	224	274	W
3-Jul-07	210	253	217	215	256	342	272	259	277	279	274	209	231	247	241	244	253	271	307	291	271	247	251	273	257	WSW
4-Jul-07	292	294	217	224	219	264	269	275	288	269	276	295	264	16	300	33	42	47	79	101	91	76	80	80	309	NW
5-Jul-07	20	292	340	296	267	242	276	274	280	319	323	325	344	345	352	3	350	338	320	332	296	335	275	210	319	NW
6-Jul-07	263	263	273	287	274	266	282	274	270	270	276	279	283	292	277	290	292	293	288	291	275	251	242	245	277	W
7-Jul-07	249	254	263	262	298	287	275	267	269	279	281	288	313	286	270	284	304	316	309	350	5	48	146	269	284	WNW
8-Jul-07	63	334	335	283	70	263	93	179	153	201	300	312	310	321	354	112	209	195	192	185	50	112	201	210	245	WSW
9-Jul-07	253	265	296	283	293	304	297	304	317	313	328	329	310	316	316	274	275	278	311	241	224	229	239	243	293	WNW
10-Jul-07	244	223	260	255	285	265	293	281	270	264	299	296	314	316	296	284	284	267	261	261	256	253	252	248	274	W
11-Jul-07	249	249	244	342	253	259	261	268	273	277	286	301	302	301	322	306	341	345	350	9	75	67	262	256	295	WNW
12-Jul-07	231	194	227	206	272	279	232	264	267	268	297	315	254	283	302	325	346	334	349	23	334	4	299	53	293	WNW
13-Jul-07	24	236	31	294	359	18	211	171	152	163	150	135	139	123	108	108	99	103	112	107	82	84	133	251	127	SE
14-Jul-07	269	236	228	286	294	308	271	266	278	279	276	289	296	275	273	313	308	318	350	31	25	67	306	240	289	WNW
15-Jul-07	0	252	325	316	82	325	92	86	70	73	163	248	340	286	299	333	354	304	332	232	283	290	329	253	312	NW
16-Jul-07	236	286	262	313	281	197	239	269	357	328	291	322	286	116	338	200	209	184	206	199	183	127	133	191	239	WSW
17-Jul-07	210	187	213	211	71	92	88	136	114	98	104	153	146	129	128	133	76	44	36	44	226	316	322	9	121	ESE
18-Jul-07	226	86	169	330	330	35	41	108	144	187	205	210	181	171	162	175	174	67	303	276	325	83	225	301	191	SSW
19-Jul-07	203	227	79	147	184	190	252	263	292	114	135	134	326	341	312	280	265	239	169	218	220	241	225	216	235	SW
20-Jul-07	211	219	208	204	201	201	198	200	204	214	221	228	239	228	221	213	205	227	313	331	260	245	197	234	220	SW
21-Jul-07	260	279	238	222	256	246	231	244	242	272	275	271	259	279	278	258	277	313	254	289	261	218	253	228	261	W
22-Jul-07	246	284	190	28	183	61	67	103	114	152	208	261	311	353	304	290	285	341	313	327	308	323	232	224	292	WNW
23-Jul-07	266	242	273	299	303	306	302	276	270	255	266	216	312	51	67	108	126	4	323	335	178	226	180	246	282	WNW
24-Jul-07	242	232	254	241	237	264	255	260	259	249	256	255	254	270	265	274	277	261	263	263	260	255	248	227	258	WSW
25-Jul-07	243	249	243	250	250	255	262	259	266	263	270	263	268	258	282	268	276	268	305	354	89	231	215	206	261	W
26-Jul-07	263	27	358	258	293	282	229	209	243	56	55	129	149	187	122	149	141	107	132	342	83	59	69	27	130	SE
27-Jul-07	51	2	50	8	273	198	146	247	335	348	38	65	53	61	101	38	38	55	35	69	39	223	288	281	36	NE
28-Jul-07	24	283	188	203	216	203	319	234	292	335	39	36	7	101	162	351	56	54	67	119	148	66	310	338	18	NNE
29-Jul-07	342	35	70	88	253	58	38	69	69	67	32	357	29	8	355	16	51	44	333	353	353	301	264	186	11	NNE
30-Jul-07	231	253	266	295	265	257	261	265	269	258	258	267	282	265	264	276	269	270	269	277	270	276	300	253	268	W
31-Jul-07	238	240	249	236	218	223	222	239	257	263	267	269	265	269	277	283	287	287	286	283	269	253	255	256	263	W
Hourly Avg	249	249	248	255	257	259	259	256	266	268	274	271	278	281	282	284	287	294	299	297	270	267	248	244		

PASZA - Evergreen Park Standard Deviation of Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	90.6	80.9	45.5	26.1	15.0	8.7	5.9

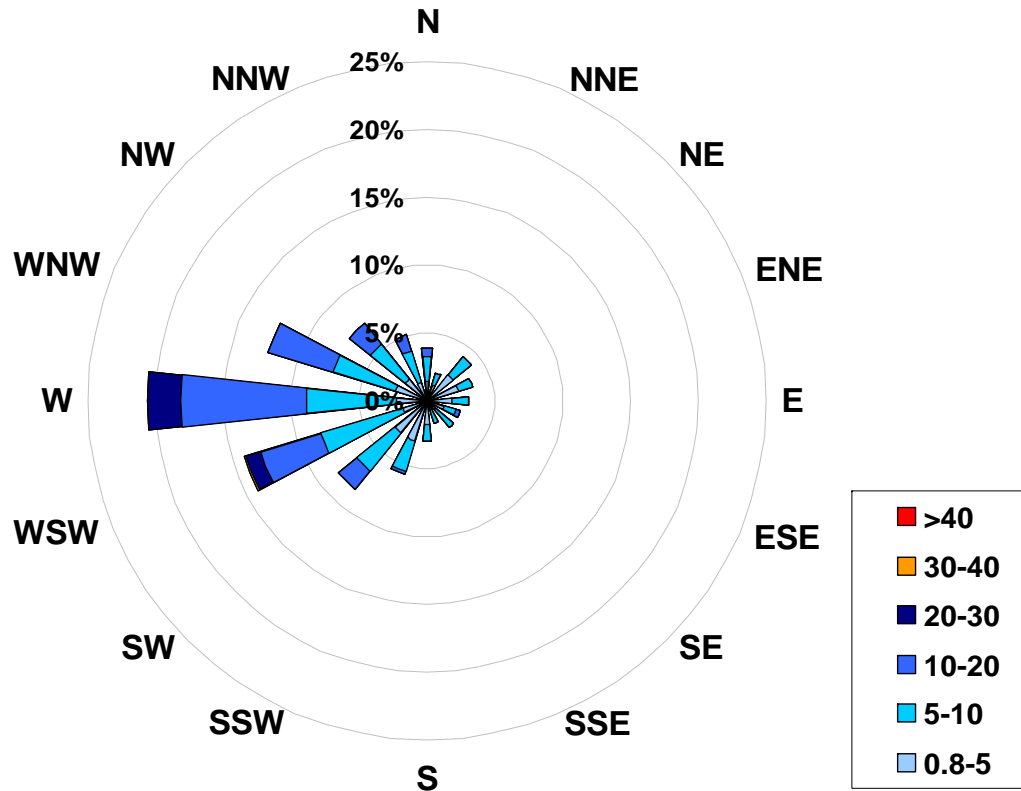
Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-Jul-07	5	5	5	4	7	7	9	10	10	9	9	11	12	13	12	12	12	13	14	12	10	30	12	85	
2-Jul-07	71	11	49	45	71	13	30	36	31	20	31	19	21	19	17	23	24	20	16	16	15	21	82	68	
3-Jul-07	35	81	44	48	36	27	26	18	16	23	23	17	25	19	15	24	13	33	24	17	13	15	13	19	
4-Jul-07	31	48	28	71	26	17	12	22	16	25	38	45	54	66	99	36	36	28	22	19	24	10	10	12	
5-Jul-07	24	54	12	42	54	22	22	13	18	15	16	23	32	30	22	33	27	10	16	14	27	28	31	22	
6-Jul-07	17	8	18	21	12	10	15	14	10	12	15	17	21	25	20	22	17	14	10	13	14	9	11	9	
7-Jul-07	8	8	12	17	41	25	16	11	11	17	18	24	28	30	25	29	20	32	33	21	44	14	88	60	
8-Jul-07	30	81	43	58	70	81	34	59	30	48	24	25	53	13	36	44	23	18	21	17	78	53	50	60	
9-Jul-07	69	7	21	12	18	14	20	17	17	20	15	20	22	25	39	31	32	32	19	32	7	11	10	11	
10-Jul-07	17	20	12	15	22	12	22	18	22	19	30	25	24	34	30	15	13	9	8	9	6	6	9	9	
11-Jul-07	7	14	13	52	43	66	10	13	16	17	20	32	25	26	26	28	35	31	29	29	12	39	66	83	
12-Jul-07	55	49	26	39	88	43	18	18	16	19	26	59	53	40	35	35	33	35	29	36	66	53	72	87	
13-Jul-07	48	70	61	47	63	45	77	33	27	54	45	25	37	35	28	25	20	19	13	15	12	11	34	23	
14-Jul-07	64	38	14	56	32	51	24	11	14	18	22	30	35	20	18	27	28	33	26	25	37	25	68	68	
15-Jul-07	61	50	45	72	85	44	92	43	51	29	59	23	25	28	28	32	28	38	87	61	25	29	32	33	
16-Jul-07	26	91	61	72	51	34	44	25	41	57	35	55	60	83	48	87	47	45	49	30	17	20	37	82	
17-Jul-07	38	30	74	49	37	51	59	81	54	62	44	37	41	57	44	32	32	20	22	13	86	46	66	49	
18-Jul-07	91	92	55	55	21	52	47	37	41	30	46	44	44	35	50	34	48	69	57	47	27	72	87	91	
19-Jul-07	62	17	53	33	37	67	38	11	20	38	30	40	93	31	24	14	16	86	66	14	8	8	32	11	
20-Jul-07	24	11	10	22	8	8	12	9	10	12	17	15	16	16	14	16	26	31	54	40	81	90	83	47	
21-Jul-07	35	21	15	9	12	13	21	23	20	19	21	16	15	29	26	24	20	15	25	16	8	18	42	37	
22-Jul-07	45	51	31	96	36	48	37	28	40	62	47	52	43	47	38	49	27	26	16	13	15	56	63	81	
23-Jul-07	69	87	60	22	17	21	14	19	13	21	40	30	67	29	42	34	46	51	14	50	77	34	27	31	
24-Jul-07	16	11	12	8	14	18	14	11	15	12	10	10	13	15	12	11	12	9	11	6	7	12	6	6	
25-Jul-07	7	7	7	7	5	9	9	8	12	13	24	23	29	23	28	25	29	21	28	50	51	39	9	18	
26-Jul-07	65	46	33	71	43	29	19	17	85	86	36	55	29	39	38	53	53	41	46	55	50	49	22	64	
27-Jul-07	55	22	30	20	43	83	54	23	33	35	31	28	44	49	63	64	66	51	41	24	87	59	22	63	
28-Jul-07	46	60	41	57	18	77	23	81	64	22	50	69	55	72	87	60	23	14	51	85	76	83	61	47	
29-Jul-07	50	49	26	36	77	34	33	43	31	34	41	46	39	50	57	48	23	92	27	16	19	42	27	46	
30-Jul-07	23	20	32	32	7	9	8	10	15	13	11	17	18	17	19	12	11	12	16	14	9	13	15	11	
31-Jul-07	13	10	10	18	13	4	11	13	11	10	8	9	10	13	13	13	11	12	11	12	9	9	5	6	
Hourly Max	91	92	74	96	88	83	92	81	85	86	59	69	93	83	99	87	66	92	87	85	87	90	88	91	

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



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	225
5	to	10	305
10	to	20	187
20	to	30	26
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

Station: Smoky Heights
 Station Owner: PASZA

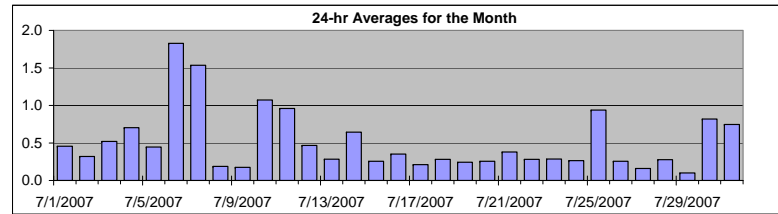
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Summary	
Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	8.9 ppb 6-Jul 5:00 6:00
Maximum 24-hr Average:	1.8 ppb 6-Jul



AIC Time:	33 hrs	Operational Time:	706 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	99.7%
Percentile	99 95 75 50 25 5 1	Average	Median
	5.6 1.8 0.5 0.3 0.1 0.1 0.0	0.5 ppb	0.3 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Jul-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	2	0	0.5	2.6
2-Jul-07	0	A	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0.3	0.9
3-Jul-07	A	1	1	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	A	0.5	1.4	
4-Jul-07	1	0	0	0	0	0	2	1	2	2	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0.7	2.4	
5-Jul-07	0	0	0	0	0	0	0	0	2	1	1	1	0	0	0	0	0	0	0	0	0	A	0	1	0.4	2.2	
6-Jul-07	1	7	4	1	3	9	6	6	1	0	1	0	0	0	0	0	0	0	0	0	A	1	1	1	1.8	8.9	
7-Jul-07	7	3	7	1	2	2	3	1	1	1	1	0	0	0	0	0	1	0	0	A	0	0	0	0	1.5	7.4	
8-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	A	0	0	0	0	0	0.2	0.6	
9-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	0	0	0	0.2	0.7	
10-Jul-07	0	0	0	0	0	1	6	4	1	1	1	C	C	C	A	1	1	1	1	1	1	1	1	1	1.1	6.5	
11-Jul-07	0	1	1	2	1	A	6	3	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1.0	6.1	
12-Jul-07	0	0	0	0	A	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0.5	1.3	
13-Jul-07	0	0	0	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0.3	1.2	
14-Jul-07	1	0	A	2	2	1	1	1	2	2	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0.6	2.2	
15-Jul-07	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0.3	0.6	
16-Jul-07	A	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0.4	1.4	
17-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	A	0	0.2	0.7	
18-Jul-07	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	A	0	0.3	0.7	
19-Jul-07	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	A	1	0	0	0.2	0.6	
20-Jul-07	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.6	
21-Jul-07	0	0	1	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	1	0.4	2.0	
22-Jul-07	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.3	1.3	
23-Jul-07	0	0	0	0	0	0	0	0	1	1	1	P	1	0	0	0	A	0	0	0	0	0	0	0	0.3	0.8	
24-Jul-07	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.3	1.4	
25-Jul-07	0	1	0	0	3	2	2	3	2	1	1	1	1	1	A	0	0	0	1	1	1	0	0	0	0.9	3.3	
26-Jul-07	0	0	0	0	0	0	0	0	0	1	1	1	0	A	0	0	0	0	0	0	0	0	0	0	0.3	1.1	
27-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	P	A	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
28-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
29-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
30-Jul-07	0	1	1	1	2	2	2	2	0	A	0	0	0	0	0	0	0	0	0	0	0	1	3	0	2	0.8	3.0
31-Jul-07	5	1	0	0	0	1	0	1	0	A	0	0	0	1	0	0	0	1	0	0	1	0	2	3	0.7	5.4	
Hourly Avg	0.7	0.6	0.7	0.3	0.6	0.8	1.0	1.0	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.4	0.4		
Hourly Max	7.2	6.6	7.4	1.6	3.3	8.9	6.1	6.5	3.5	2.1	1.3	1.2	1.3	0.6	0.7	0.6	1.0	1.0	1.1	1.3	2.1	3.0	2.1	2.7			

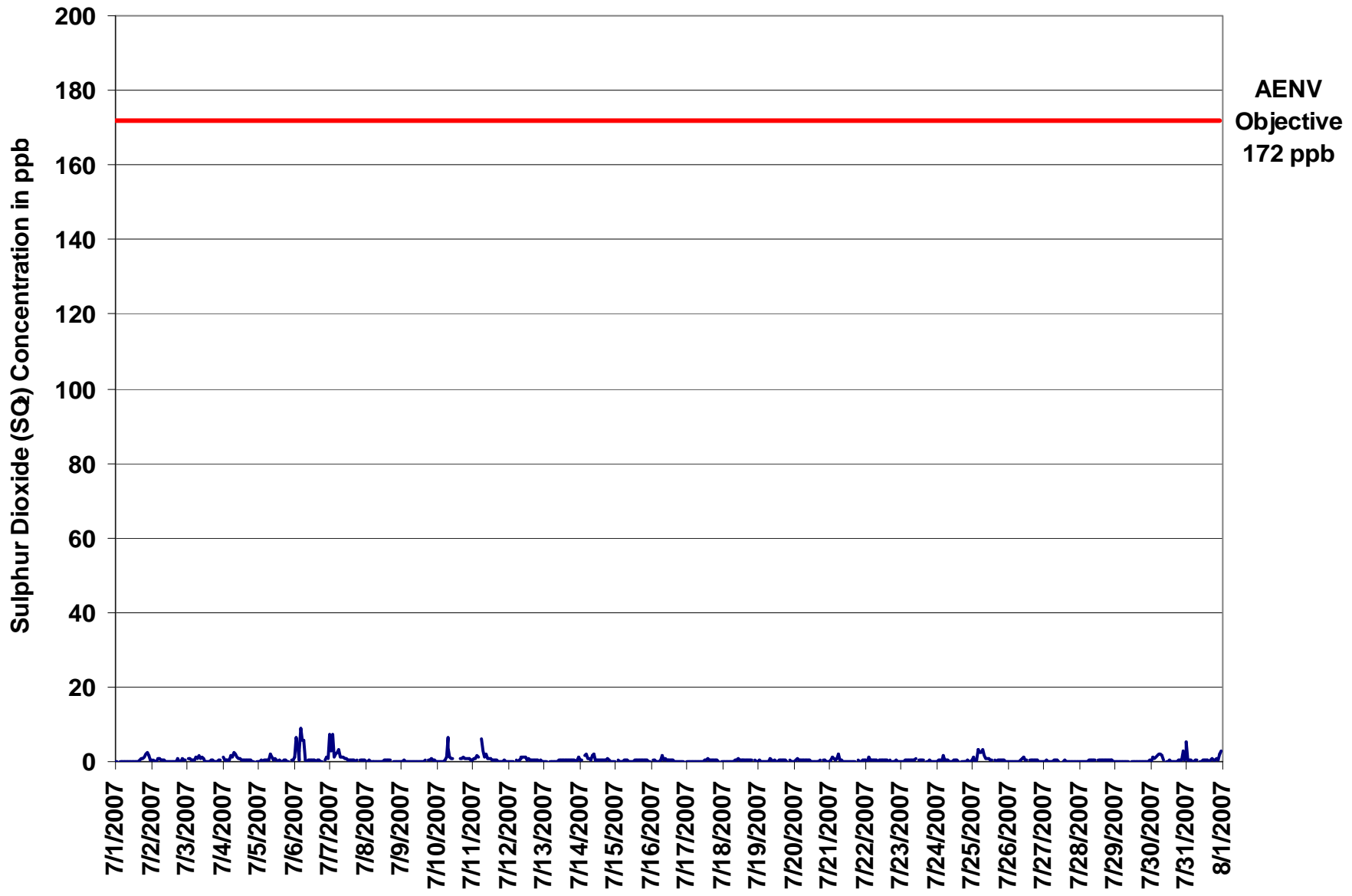


Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights
Station Owner: PASZA

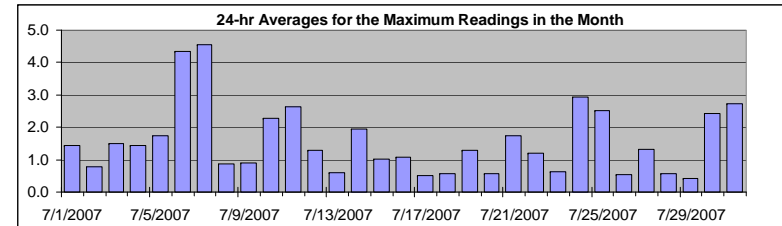
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	27.1	ppb	7-Jul	0:00 1:00
Maximum 24-hr Value:	4.6	ppb	7-Jul	



AIC Time:	2 hrs	Operational Time:	706 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	95.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	12.1	9.1	1.1	0.6	0.4	0.3	0.3	1.6 ppb	0.6 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Jul-07	0	0	A	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	3	2	3	4	7	5	1	1.4	7.2
2-Jul-07	1	A	1	0	1	1	2	1	1	1	0	0	0	0	0	0	0	0	1	2	0	0	2	1	1	0.8	2.2
3-Jul-07	A	1	1	1	1	2	4	2	5	2	2	3	0	1	1	1	1	2	0	0	1	2	2	A	1.5	4.7	
4-Jul-07	3	1	1	1	1	1	4	4	4	4	3	1	1	1	1	1	0	0	0	0	1	0	A	0	1.4	4.3	
5-Jul-07	0	0	9	0	1	1	1	1	4	3	1	2	1	0	1	0	0	1	1	0	0	A	10	2	1.8	9.6	
6-Jul-07	5	10	8	1	12	12	10	8	3	0	2	1	1	1	1	1	1	1	9	0	A	10	2	2	4.3	12.1	
7-Jul-07	27	10	20	3	4	8	14	2	2	4	1	2	1	1	1	1	1	1	1	A	0	1	0	1	4.6	27.1	
8-Jul-07	0	0	9	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	1	A	1	0	0	0	0	0.9	9.4
9-Jul-07	0	1	9	0	0	0	0	0	1	0	0	0	0	0	1	0	1	A	1	1	1	1	1	1	0	0.9	9.2
10-Jul-07	0	0	1	0	0	1	5	14	10	2	1	1	C	C	C	A	1	1	2	1	1	1	1	1	1	2.3	13.5
11-Jul-07	1	2	2	5	4	A	14	9	2	12	2	1	1	1	1	1	1	0	0	1	1	1	0	0	0	2.6	13.9
12-Jul-07	0	0	0	1	A	0	0	1	1	2	2	2	2	2	1	1	1	10	1	1	1	1	0	1	0	1.3	10.1
13-Jul-07	0	0	0	A	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0.6	1.5
14-Jul-07	2	1	A	4	6	2	1	1	4	4	1	1	1	1	2	1	1	1	1	1	1	10	0	0	0	1.9	10.3
15-Jul-07	0	A	10	0	0	0	1	1	1	1	0	0	0	2	1	1	1	1	1	1	0	0	1	0	1	1.0	10.3
16-Jul-07	A	3	3	0	0	1	1	8	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	A	1.1	7.8
17-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	A	0	0.5	1.1
18-Jul-07	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0	0.6	1.0
19-Jul-07	0	10	0	0	0	0	0	0	0	1	1	1	0	0	2	3	1	1	2	1	A	1	1	0	1.3	10.0	
20-Jul-07	0	1	1	1	1	1	1	1	0	1	1	1	0	0	0	0	0	0	1	A	1	0	1	0	0.6	1.0	
21-Jul-07	0	1	6	11	1	4	7	1	0	0	0	1	0	1	0	0	0	0	1	A	1	0	0	2	2	1.7	10.9
22-Jul-07	1	1	6	0	1	1	0	1	0	1	1	1	1	1	10	0	1	A	1	1	1	0	0	0	0	1.2	10.3
23-Jul-07	0	0	0	1	1	1	1	1	1	1	1	P	1	1	1	1	A	0	1	1	0	0	0	0	0	0.6	1.5
24-Jul-07	0	3	2	1	5	1	10	10	0	1	0	1	10	10	0	A	1	1	1	0	0	0	10	0	0	2.9	10.2
25-Jul-07	4	4	0	1	8	4	5	5	3	2	1	2	1	11	A	1	1	1	1	1	1	1	1	1	0	2.5	10.7
26-Jul-07	0	0	0	0	0	0	0	0	1	1	1	1	1	1	A	0	1	1	1	1	0	0	0	0	0	0.5	1.5
27-Jul-07	0	0	10	0	0	0	0	1	1	1	1	P	A	0	10	0	0	0	0	0	0	0	0	0	0	1.3	10.3
28-Jul-07	0	0	0	0	0	0	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	0	0.6	0.8
29-Jul-07	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	2	0.4	1.7	
30-Jul-07	0	4	3	3	4	3	4	4	1	A	0	1	1	0	0	1	0	0	1	1	1	1	8	1	14	2.4	13.8
31-Jul-07	15	1	1	1	0	1	10	0	A	0	0	1	2	10	1	0	1	1	1	1	1	1	4	8	2.7	15.2	
Hourly Avg	2.3	2.0	3.6	1.2	1.8	1.6	3.2	2.5	1.7	1.6	0.9	0.9	1.1	1.7	1.4	0.7	1.0	0.7	1.1	0.7	1.1	1.7	1.3	1.4			
Hourly Max	27.1	10.3	20.0	10.9	12.1	11.9	14.4	13.5	9.8	12.1	2.5	2.6	10.1	10.7	10.3	3.1	10.1	2.9	9.3	3.4	10.3	10.2	9.6	13.8			

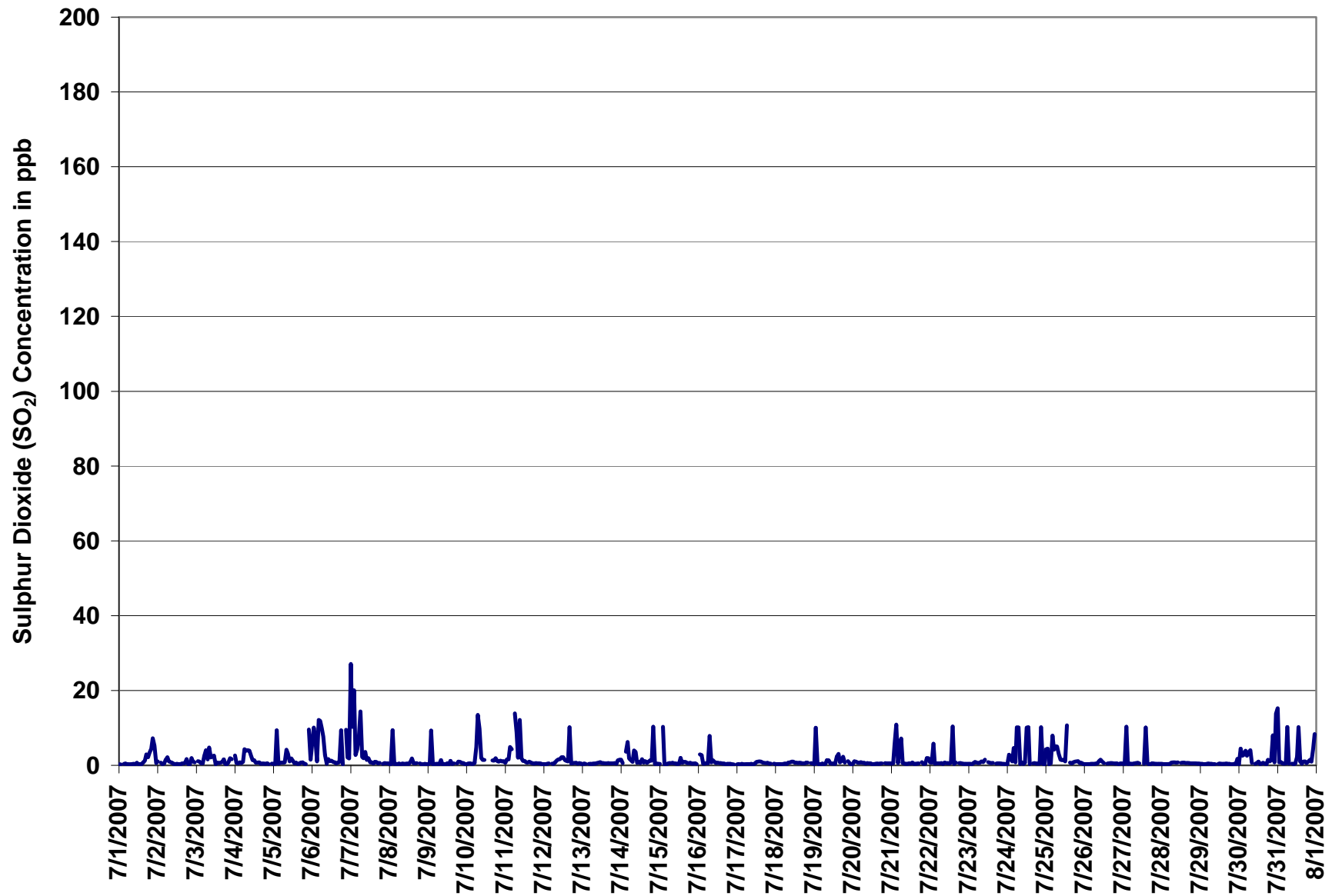
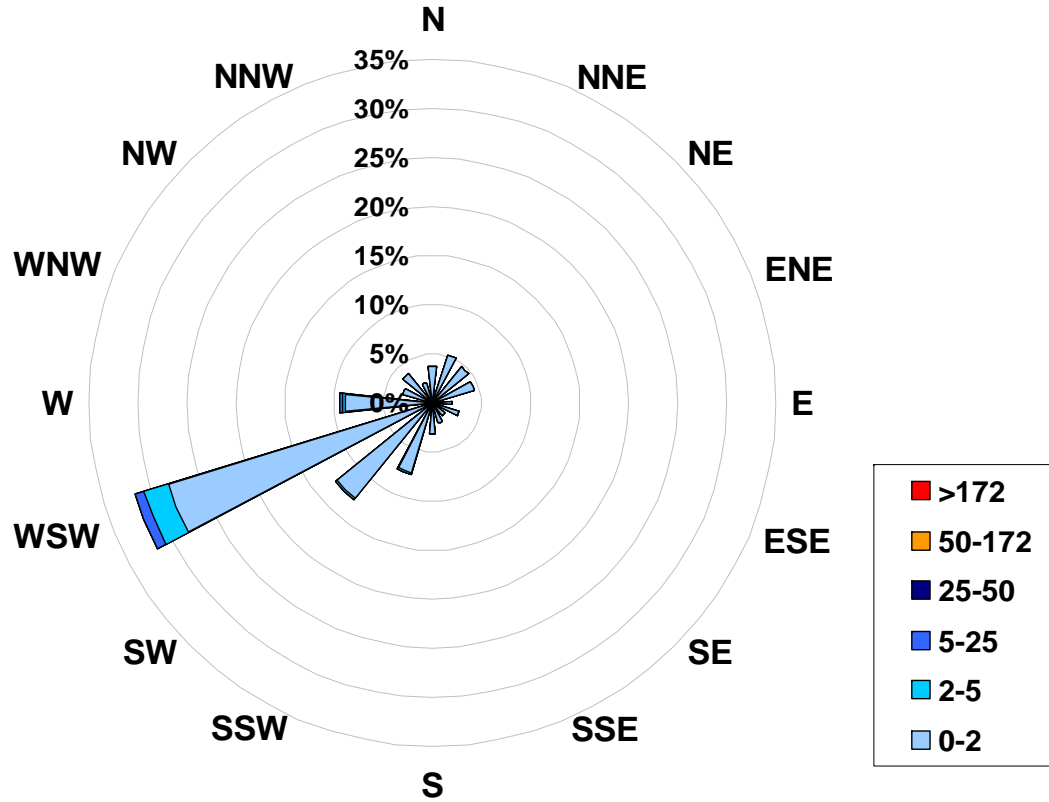


Figure 28. PASZA - Smoky Heights Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2	674	
2	to 5	23	
5	to 25	9	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values		706	

PASZA - Smoky Heights Total Reduced Sulphur Monthly Summary

Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

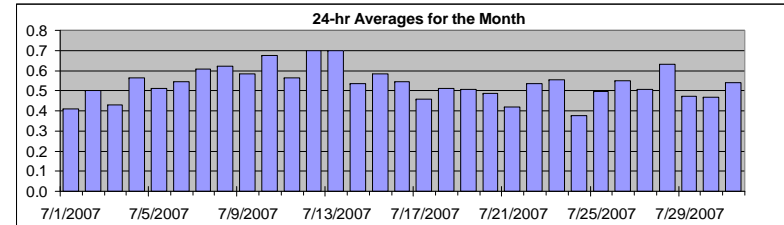
Total Reduced Sulphur (TRS)

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Maximum 1-hr Average:	2.5 ppb	13-Jul	0:00 1:00
Maximum 24-hr Value:	0.7 ppb	12-Jul	

AIC Time:	33 hrs	Operational Time:	707 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.2	1.0	0.6	0.5	0.4	0.3	0.2	0.5 ppb	0.5 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.4	0.8	
2-Jul-07	1	A	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.5	0.9
3-Jul-07	A	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0.4	0.7	
4-Jul-07	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	A	0	0.6	1.2	
5-Jul-07	0	0	1	1	1	0	0	1	1	0	1	1	1	1	0	0	0	0	1	1	1	A	1	1	0.5	0.6	
6-Jul-07	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	1	1	0.5	1.0	
7-Jul-07	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	A	0	1	1	1	0.6	1.1	
8-Jul-07	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	0	0	0	A	1	1	1	1	1	0.6	1.2	
9-Jul-07	1	1	0	0	0	1	1	1	1	0	1	1	1	1	1	1	1	A	1	0	0	1	1	1	0.6	0.8	
10-Jul-07	1	1	1	1	1	1	1	1	1	0	0	C	C	A	0	1	1	1	1	1	1	1	1	1	0.7	1.2	
11-Jul-07	1	1	1	1	1	A	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0.6	1.1	
12-Jul-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0.7	1.4	
13-Jul-07	2	2	2	A	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	2.5	
14-Jul-07	0	1	A	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0.5	1.0	
15-Jul-07	1	A	1	1	1	1	0	0	0	0	0	1	0	1	1	1	1	0	0	0	1	1	0	0	0.6	1.4	
16-Jul-07	A	1	1	1	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	A	0.5	1.0	
17-Jul-07	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	A	1	0.5	0.8	
18-Jul-07	1	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	1	A	1	1	0.5	0.7	
19-Jul-07	1	1	1	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	0	0	A	1	0	0	0.5	0.7	
20-Jul-07	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	1	1	1	1	0.5	0.7	
21-Jul-07	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	1	1	0.4	0.7	
22-Jul-07	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	1	1	1	1	0.5	1.2	
23-Jul-07	1	1	1	1	1	1	1	1	1	0	1	P	0	0	0	0	A	1	0	0	0	1	0	0	0.6	1.4	
24-Jul-07	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	1	0.4	0.6	
25-Jul-07	1	1	1	1	1	1	1	0	0	0	0	0	0	0	A	0	0	0	0	0	1	1	1	1	0.5	1.0	
26-Jul-07	1	1	1	1	1	1	0	0	0	0	1	1	1	A	1	1	1	1	0	1	0	1	1	1	0.5	1.0	
27-Jul-07	1	1	1	1	0	1	1	1	0	0	0	P	A	0	0	0	0	0	0	0	1	1	1	1	0.5	1.1	
28-Jul-07	1	1	1	1	1	1	1	1	1	1	1	A	0	0	0	1	1	0	0	0	0	0	0	1	0.6	1.2	
29-Jul-07	1	1	0	0	1	1	1	1	0	1	A	1	1	1	1	1	0	0	0	0	0	0	0	0	0.5	0.6	
30-Jul-07	0	1	1	1	1	0	0	1	0	A	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0.5	0.7	
31-Jul-07	1	1	1	1	1	0	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.5	1.0	
Hourly Avg	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.6	0.7			
Hourly Max	2.5	2.0	2.2	1.2	1.4	1.2	1.2	1.0	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.9	1.4	1.2		

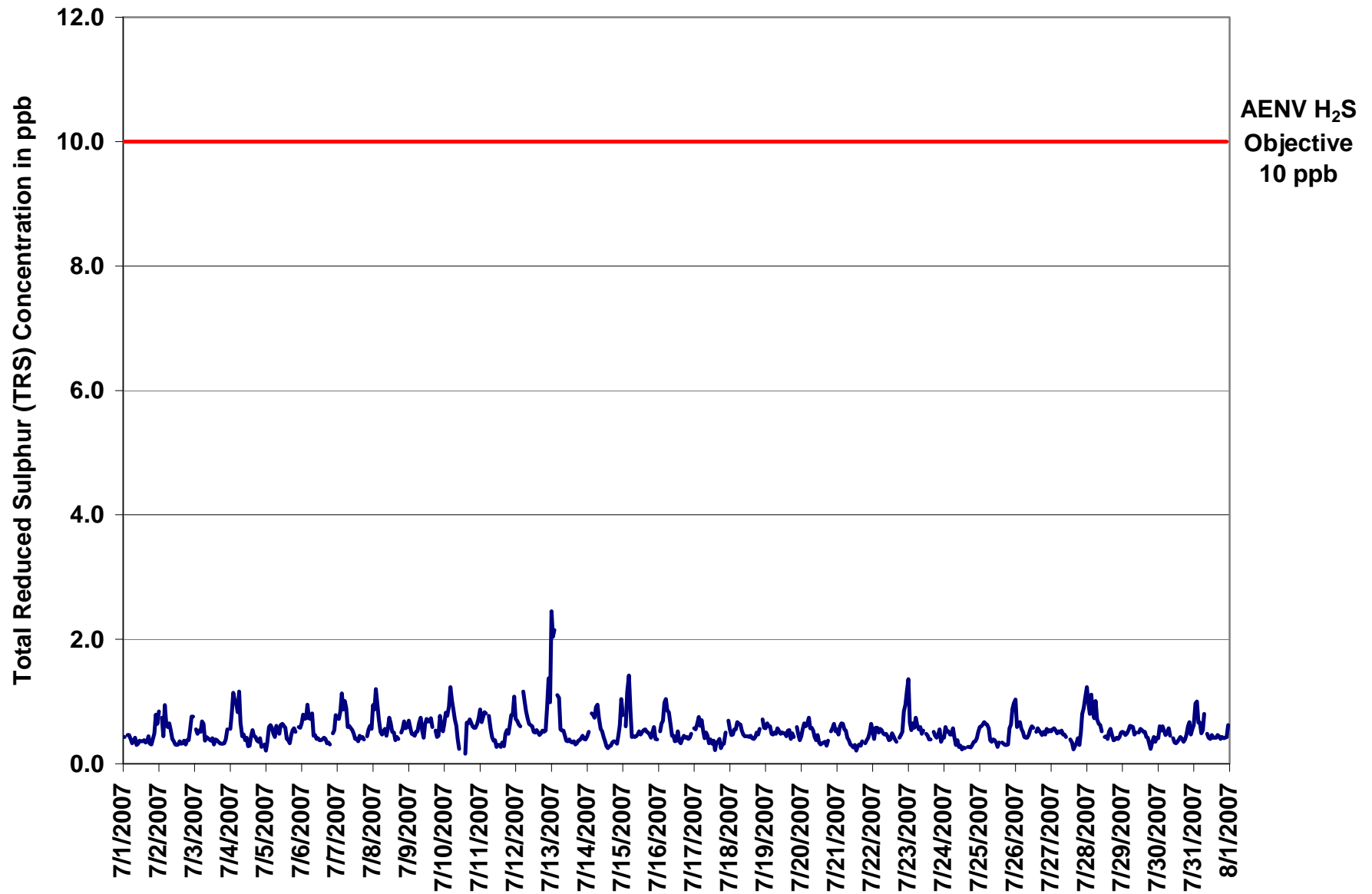


Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

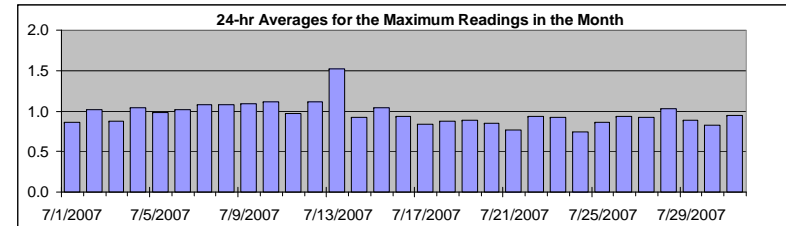
Total Reduced Sulphur (TRS)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	4.7	ppb	13-Jul	10:00 11:00
Maximum 24-hr Value:	1.5	ppb	13-Jul	

AIC Time:	1 hrs	Operational Time:	707 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	95.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.4	1.6	1.0	0.9	0.8	0.6	0.6	1.0 ppb	0.9 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum
1-Jul-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	0.9	1.7
2-Jul-07	1	A	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.0	2.0
3-Jul-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.9	1.3
4-Jul-07	1	1	2	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.0	2.0
5-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.0	1.2
6-Jul-07	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1.0	2.2
7-Jul-07	1	1	1	2	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1.1	1.8
8-Jul-07	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1.1	2.1
9-Jul-07	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1.1	2.3
10-Jul-07	1	1	1	1	2	1	1	1	1	1	1	C	C	A	0	1	1	1	1	1	1	1	1	1	1.1	1.6
11-Jul-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.0	2.2
12-Jul-07	1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1.1	2.1
13-Jul-07	4	3	3	A	3	3	1	1	1	1	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1.5	4.7
14-Jul-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	0.9	1.7	
15-Jul-07	1	A	1	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.5
16-Jul-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.4
17-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	1.1
18-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.9	1.4
19-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.9	1.1
20-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	1.3
21-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.8	1.1
22-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	2	1	2	0.9	1.8
23-Jul-07	2	1	1	1	1	1	1	1	1	1	1	P	1	1	1	1	A	1	1	1	1	1	1	1	0.9	2.0
24-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.7	1.1
25-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.9	1.5
26-Jul-07	2	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	1.7
27-Jul-07	1	1	1	1	1	1	1	1	1	1	1	P	A	1	1	0	1	1	1	1	1	1	2	1	0.9	1.6
28-Jul-07	2	2	1	2	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1.0	1.8
29-Jul-07	1	1	1	1	1	1	1	1	1	1	2	A	1	1	1	1	1	1	1	1	1	1	1	1	0.9	2.4
30-Jul-07	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
31-Jul-07	1	2	2	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.9
Hourly Avg	1.2	1.2	1.2	1.1	1.2	1.2	1.1	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.0	1.1	1.1		
Hourly Max	4.2	3.4	3.5	2.2	3.2	3.0	1.8	1.4	2.3	2.4	4.7	1.2	1.1	1.2	1.0	1.2	1.2	1.0	1.1	1.3	1.4	1.9	2.1	2.2		

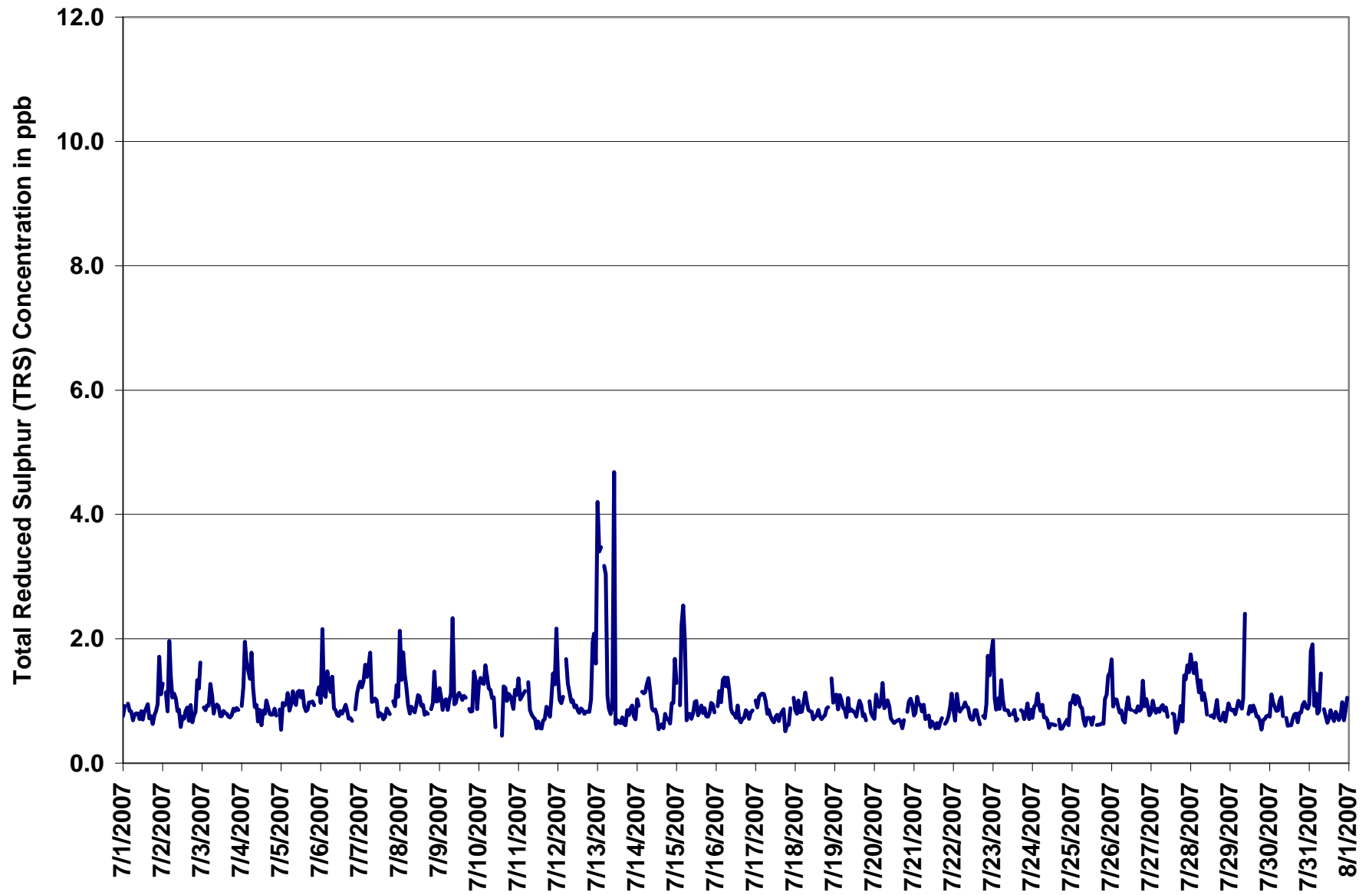
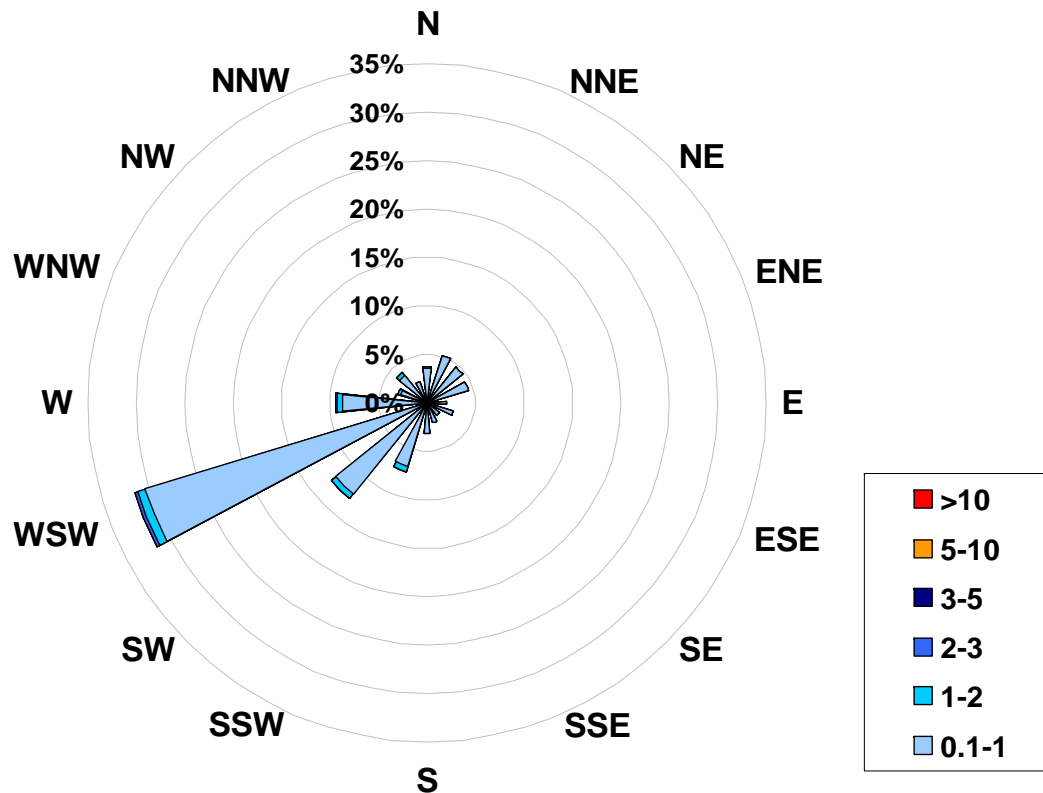


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of TRS in ppb Range			Frequency (hrs)
0.1	<	1	678
1	to	2	24
2	to	3	3
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			707

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

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

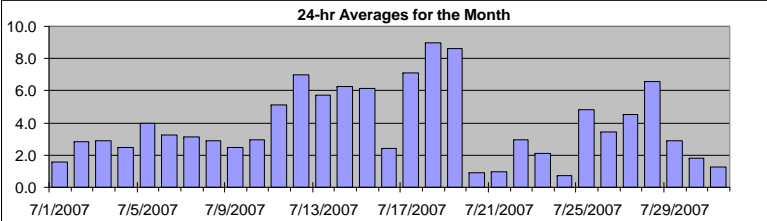
Particulate Matter (PM_{2.5})

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	57.7 µg/m ³ 25-Jul 20:00 21:00
Maximum 24-hr Value:	9.0 µg/m ³ 18-Jul

AIC Time:	0 hrs	Operational Time:	722 hrs									
Calibration Time:	0 hrs	AMD Operational Uptime:	97.0%									
Percentile	99	95	75	50	25	5	1	Average / Median	3.8	3 µg/m ³	Geomean	3.2 µg/m ³
	17.0	11.3	5.3	2.8	1.0	0.0	0.0					



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start 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-Jul-07	0	0	1	1	1	0	1	0	0	0	0	1	0	1	1	1	1	1	1	3	3	5	9	5	1.6	9.2
2-Jul-07	2	2	3	2	2	3	3	4	1	3	1	2	1	1	1	1	1	4	3	3	4	6	4	9	2.8	8.7
3-Jul-07	1	2	3	4	4	5	3	5	5	3	3	3	1	3	1	0	2	2	3	6	3	2	6	1	2.9	6.0
4-Jul-07	3	2	2	1	2	4	4	3	3	3	2	2	0	0	0	1	1	4	6	5	5	3	1	2.5	5.9	
5-Jul-07	0	1	1	4	4	5	5	6	7	5	5	5	4	11	4	5	2	6	7	4	2	1	2	1	4.0	10.5
6-Jul-07	1	2	3	1	1	1	2	3	0	0	1	0	1	3	2	1	0	2	11	17	13	4	3	4	3.3	17.3
7-Jul-07	2	2	2	2	2	4	3	3	3	5	3	2	1	2	1	2	5	3	3	5	4	11	4	1	3.1	11.1
8-Jul-07	3	2	7	3	3	4	4	3	P	5	5	3	3	1	2	1	2	6	2	2	1	2	0	2	2.9	6.6
9-Jul-07	0	5	3	2	2	2	3	4	3	2	1	2	1	3	2	2	0	2	3	4	6	2	3	2	2.5	6.3
10-Jul-07	2	0	2	3	4	3	4	3	2	0	3	1	1	2	1	3	3	4	6	6	7	0	6	1	2.9	7.3
11-Jul-07	1	2	3	3	3	4	4	6	4	4	2	3	1	1	3	3	4	4	11	13	12	17	7	10	5.1	17.5
12-Jul-07	2	2	3	3	7	7	9	10	10	11	14	9	7	2	3	2	6	4	5	9	6	22	7	8	7.0	21.7
13-Jul-07	10	5	8	7	9	11	9	7	7	10	P	7	3	1	0	0	2	3	3	0	3	10	6	12	5.7	11.6
14-Jul-07	P	D	7	8	7	4	7	9	8	2	5	4	5	3	9	3	4	6	7	12	8	6	4	10	6.3	12.4
15-Jul-07	4	5	3	3	5	8	8	7	5	4	6	5	7	10	4	7	4	5	9	7	11	7	D	D	6.1	11.2
16-Jul-07	0	0	0	0	0	6	4	4	3	3	1	0	0	1	2	3	2	5	4	8	2	5	3	2	2.4	8.1
17-Jul-07	3	5	3	4	2	8	6	7	6	4	7	6	8	11	6	10	16	11	13	10	9	2	12	2	7.1	15.9
18-Jul-07	4	3	4	7	8	7	11	8	10	2	10	10	12	12	12	13	11	12	12	16	11	10	9	3	9.0	15.9
19-Jul-07	6	2	4	10	4	10	11	14	19	18	10	14	13	15	14	24	D	0	0	0	0	0	D	0	8.6	24.3
20-Jul-07	0	0	0	0	0	0	0	2	0	D	0	D	0	0	0	0	0	0	0	9	4	0	3	D	0.9	8.7
21-Jul-07	1	0	0	2	1	0	2	1	0	1	0	0	0	0	1	0	0	1	0	1	7	0	1	3	1.0	7.4
22-Jul-07	0	0	3	4	0	4	5	2	1	1	0	1	0	1	2	2	2	10	9	5	5	3	6	3.0	9.7	
23-Jul-07	2	0	2	2	1	1	4	6	2	3	P	1	3	0	0	6	4	2	1	3	0	0	D	2.1	5.9	
24-Jul-07	0	1	2	0	0	0	1	D	D	0	0	0	0	2	1	2	0	0	1	2	0	2	2	1	0.7	2.2
25-Jul-07	0	1	1	1	1	2	2	2	1	3	1	0	1	1	0	1	3	1	3	6	58	14	13	2	4.8	57.7
26-Jul-07	1	0	1	1	6	6	8	1	3	2	6	6	7	0	2	3	2	3	4	4	1	6	4	5	3.5	8.1
27-Jul-07	5	2	3	4	4	4	5	9	6	8	P	P	1	0	0	5	3	5	5	5	6	8	7	3	4.5	9.2
28-Jul-07	3	3	2	1	8	8	8	13	12	11	9	3	4	3	9	6	12	D	13	4	5	2	4	7	6.5	13.3
29-Jul-07	8	2	6	4	0	0	6	0	3	3	4	2	2	2	6	0	2	8	D	7	0	0	1	0	2.9	8.0
30-Jul-07	0	0	0	D	D	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	29	0	0	1.8	28.6
31-Jul-07	0	0	1	0	0	0	2	1	0	0	1	5	1	D	0	2	2	3	3	2	2	2	1	0	1.2	4.5
Hourly Avg	2.2	1.7	2.7	3.0	3.0	4.0	4.6	4.8	4.2	3.8	3.6	3.5	2.9	3.1	2.9	3.3	3.3	3.9	4.9	5.9	6.7	5.9	4.4	3.6		
Hourly Max	9.5	4.8	8.3	10.1	8.5	11.3	10.8	14.4	18.5	18.1	13.7	13.8	13.2	14.9	13.8	24.3	15.9	12.0	13.3	17.3	57.7	28.6	12.5	11.6		

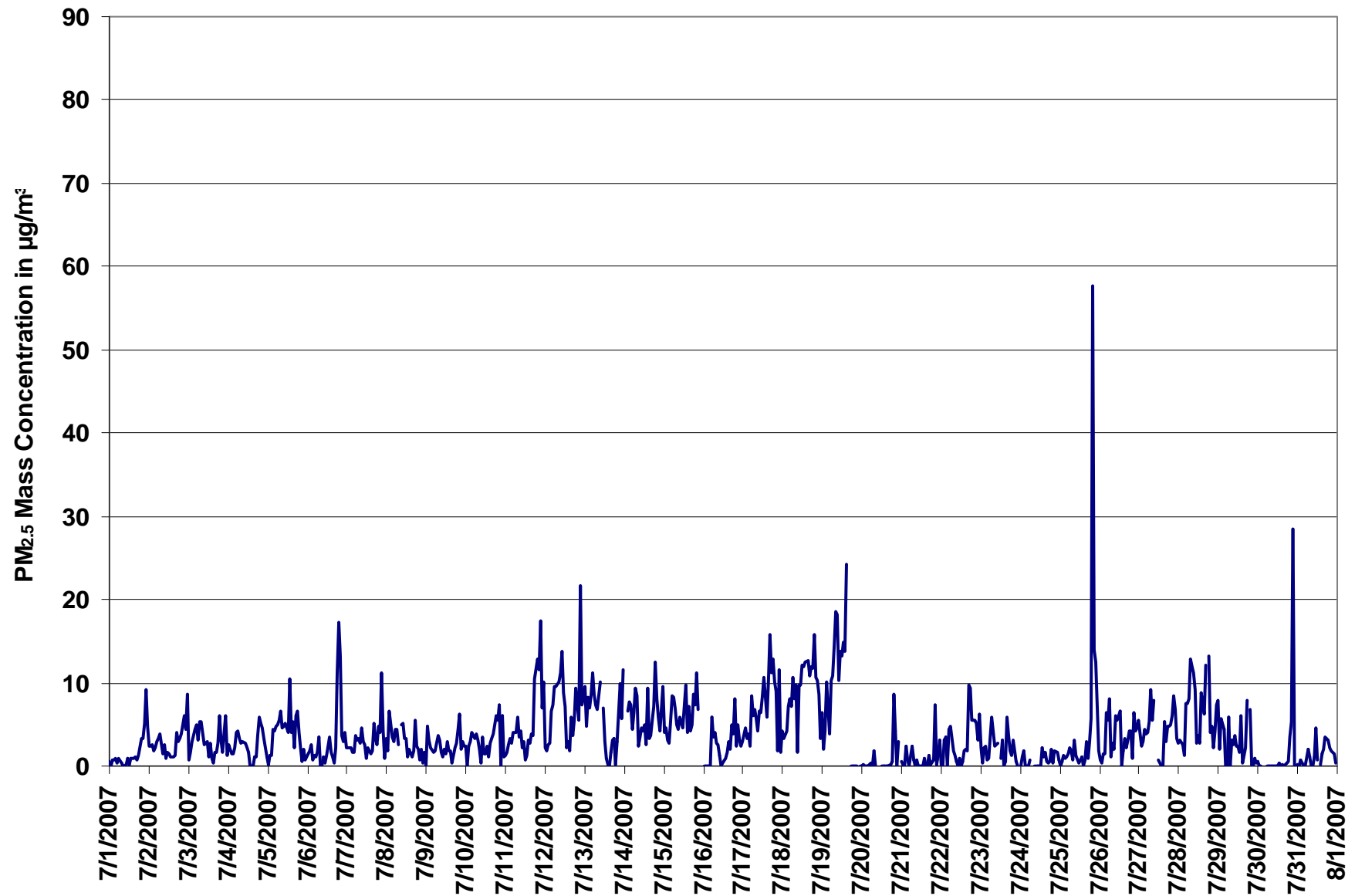


Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

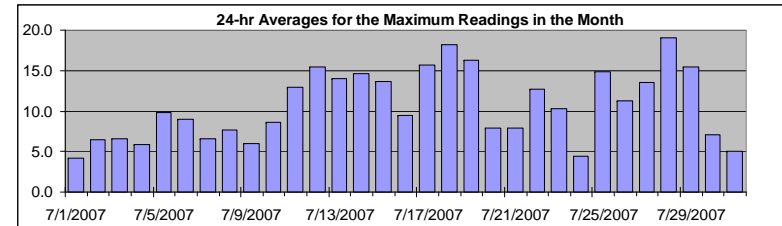
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	137.0	µg/m ³	25-Jul	20:00 21:00
Maximum 24-hr Value:	19.0	µg/m ³	28-Jul	



AIC Time:	0 hrs	Operational Time:	733 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	98.5%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	39.5	26.7	14.1	7.9	5.0	2.0	0.5	10.6	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

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jul-07	2	1	2	2	2	2	3	2	2	2	3	4	3	4	3	4	4	4	4	5	4	15	17	8	4.2	16.8
2-Jul-07	4	5	5	4	5	6	6	6	5	5	4	5	5	3	5	4	3	7	6	7	6	17	14	19	6.5	18.9
3-Jul-07	4	4	5	5	7	7	7	8	9	5	7	6	4	8	4	4	4	5	15	15	5	3	14	3	6.6	15.4
4-Jul-07	4	4	4	3	4	5	6	6	5	6	7	6	7	4	2	5	11	6	11	11	10	7	5	3	5.9	11.1
5-Jul-07	1	4	3	7	7	7	7	9	10	11	14	10	18	37	9	10	6	14	10	14	12	6	7	5	9.8	37.3
6-Jul-07	4	4	5	2	3	2	4	6	4	3	5	11	3	14	6	6	5	7	29	33	37	10	4	6	8.9	37.4
7-Jul-07	4	4	5	3	3	7	5	5	5	7	5	5	3	6	7	6	11	11	7	8	9	24	6	3	6.6	24.0
8-Jul-07	7	5	23	5	5	6	8	5	P	8	7	7	8	11	14	7	6	11	9	6	7	3	3	3	7.6	23.2
9-Jul-07	2	7	5	4	3	4	5	5	5	7	5	5	5	8	6	5	5	6	8	8	13	12	8	4	6.0	13.2
10-Jul-07	5	1	5	5	5	7	7	8	7	6	13	4	7	9	5	11	10	9	27	17	17	2	16	2	8.6	27.1
11-Jul-07	3	3	4	5	4	6	8	11	9	12	5	12	5	7	6	9	9	8	40	27	40	37	11	30	12.9	40.0
12-Jul-07	5	4	5	8	19	10	14	14	14	19	19	19	15	11	8	7	15	15	11	36	25	45	19	13	15.5	44.6
13-Jul-07	24	7	20	13	24	16	18	13	10	15	P	15	16	7	14	8	14	17	11	7	8	19	8	19	14.0	24.4
14-Jul-07	P	D	22	14	12	7	11	13	14	9	16	11	17	10	15	11	11	16	17	31	14	10	7	34	14.6	33.8
15-Jul-07	8	7	10	10	10	13	12	11	12	12	18	14	18	22	10	21	17	16	21	13	15	11	D	D	13.7	21.8
16-Jul-07	2	3	0	6	2	14	15	10	8	17	12	5	13	7	9	13	12	17	15	15	13	11	5	7	9.5	16.8
17-Jul-07	5	6	5	6	5	16	15	17	14	13	15	17	19	29	18	27	31	26	21	17	15	12	22	5	15.7	30.8
18-Jul-07	6	7	7	11	11	10	29	15	18	10	18	20	23	21	29	26	22	30	19	34	16	20	19	16	18.2	33.6
19-Jul-07	15	8	8	14	9	15	24	22	29	29	15	22	20	24	39	46	D	3	7	7	1	4	D	1	16.3	45.9
20-Jul-07	0	5	3	0	2	2	1	10	11	6	13	7	12	7	7	7	8	7	7	25	25	11	11	3	8.0	25.5
21-Jul-07	5	7	4	11	3	0	6	6	4	6	6	7	7	10	7	7	7	13	8	19	18	14	5	8	7.9	18.8
22-Jul-07	3	6	9	10	6	16	10	10	8	10	10	7	14	12	9	12	14	38	21	22	12	25	8	14	12.7	38.3
23-Jul-07	9	6	9	7	8	5	10	11	6	13	13	P	10	23	6	14	18	23	18	9	11	4	3	1	10.3	23.2
24-Jul-07	1	8	4	1	1	2	6	2	0	6	8	5	6	5	6	6	6	6	8	7	4	3	4	2	4.4	8.0
25-Jul-07	1	2	3	2	3	3	4	5	5	7	5	5	6	8	7	9	14	7	9	13	137	53	34	12	14.8	137.0
26-Jul-07	3	6	4	7	12	10	13	15	11	10	13	16	19	6	19	16	16	13	12	11	5	21	6	6	11.2	21.3
27-Jul-07	9	9	4	7	8	7	9	16	13	18	P	P	13	6	14	16	12	17	15	18	19	35	19	14	13.6	35.1
28-Jul-07	8	5	7	8	20	11	14	21	16	22	23	22	24	25	32	28	51	15	34	26	22	6	9	9	19.0	51.0
29-Jul-07	15	19	18	11	4	0	14	15	13	12	14	15	16	16	32	13	17	30	18	13	17	22	22	6	15.5	31.6
30-Jul-07	4	4	2	0	0	1	1	3	5	5	8	4	10	9	4	6	3	6	5	9	16	50	14	1	7.1	49.7
31-Jul-07	2	2	3	2	3	2	6	5	10	3	8	14	6	6	5	6	7	7	8	6	4	3	3	1	5.1	13.8
Hourly Avg	5.5	5.4	6.8	6.2	6.8	7.1	9.5	9.8	9.5	10.0	10.6	10.3	11.4	12.1	11.4	11.9	12.3	13.2	14.5	15.8	18.0	16.6	11.2	8.7		
Hourly Max	24.4	18.9	23.2	14.1	24.0	16.5	28.8	21.8	28.5	28.5	22.7	21.6	24.0	37.3	38.7	45.9	51.0	38.3	39.8	36.4	137.0	52.9	34.2	33.8		

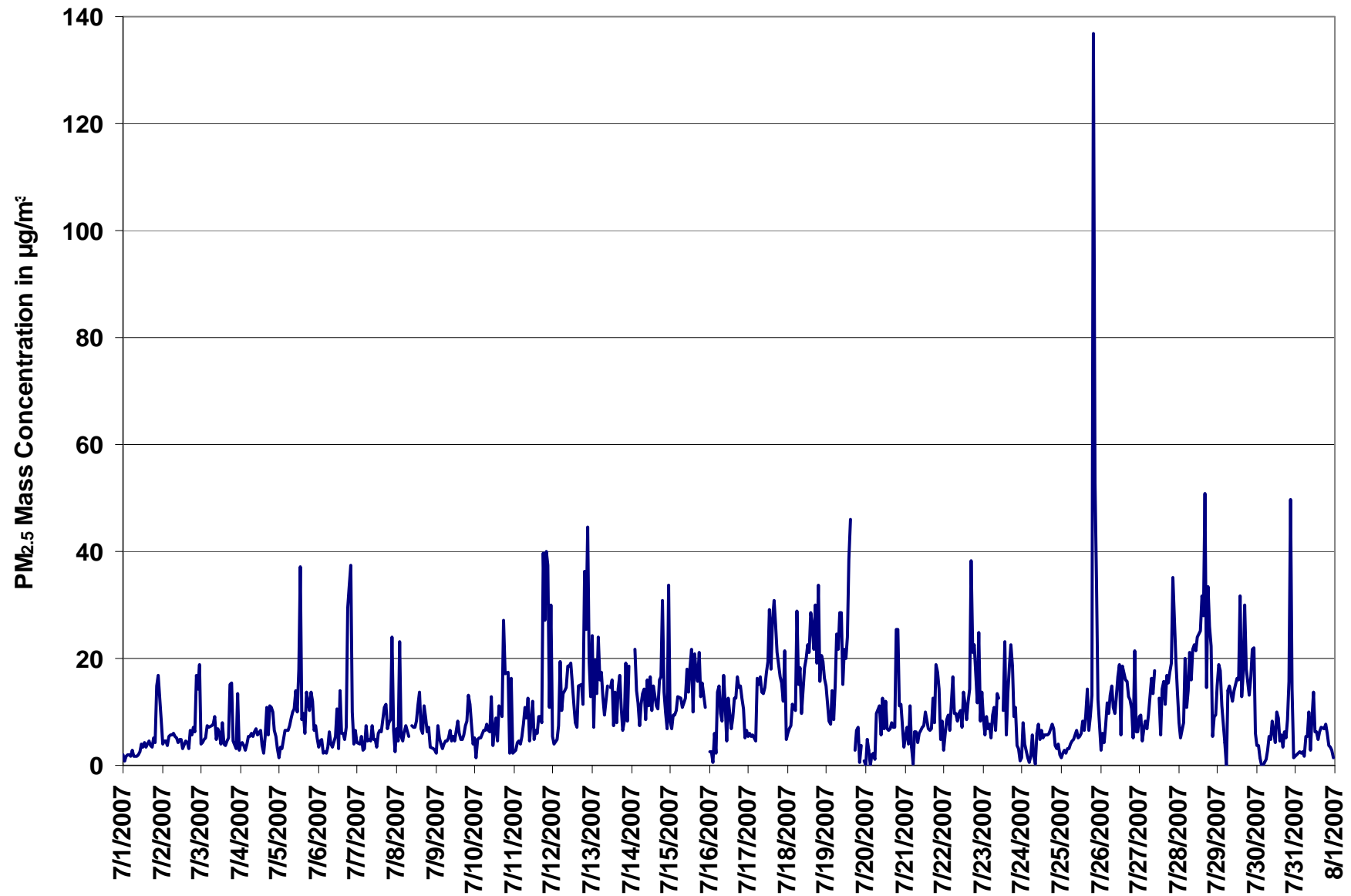
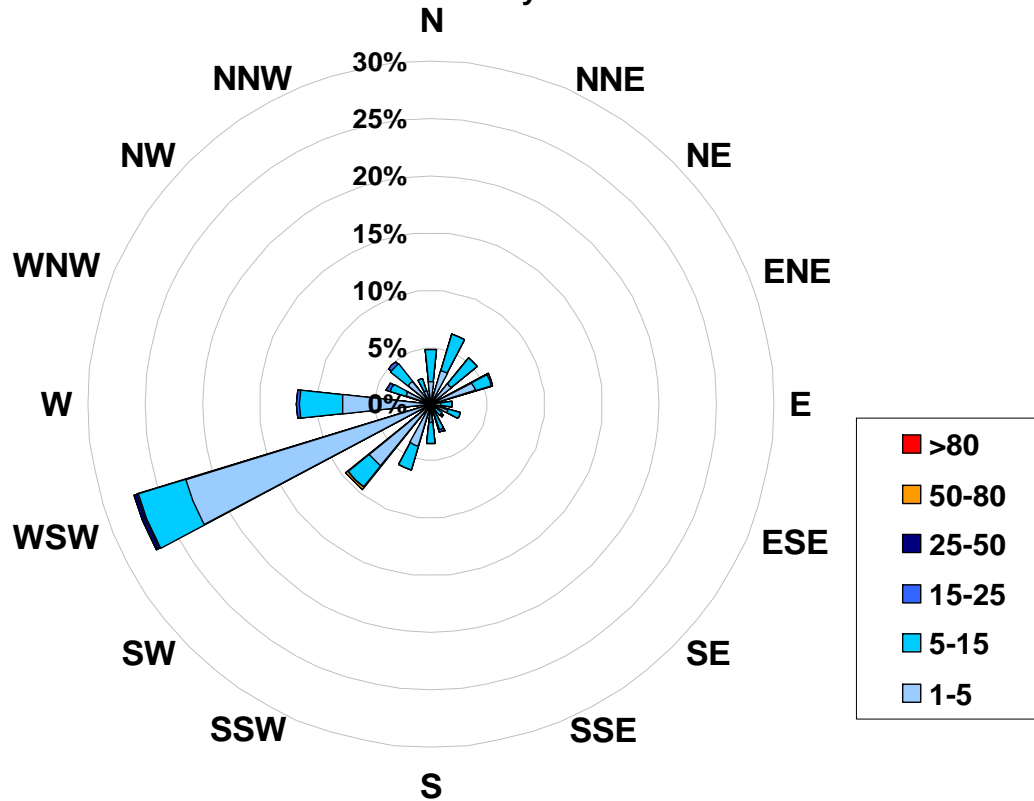


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 July 2007



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	526
5	to	15	186
15	to	25	8
25	to	50	1
50	to	80	1
	>	80	0
Total Non-Zero Values			722

PASZA - Smoky Heights Temperature Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

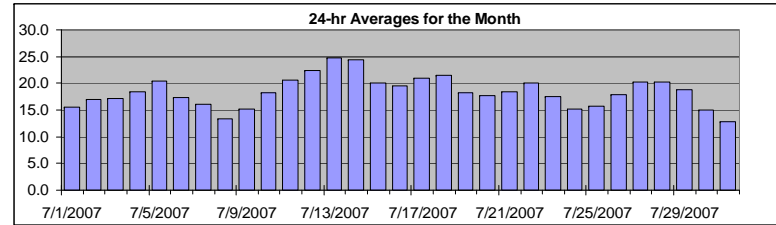
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	33.9	°C	13-Jul	15:00 16:00
Maximum 24-hr Value:	24.7	°C	13-Jul	



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
	31.2	26.9	22.3	18.0	14.4	10.6	8.4	18.4 °C	18.0 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-Jul-07	13	12	10	9	8	10	12	13	15	16	18	19	20	20	21	21	21	21	20	19	17	14	12	10	15.5	20.8	
2-Jul-07	11	11	10	11	11	10	13	15	17	19	20	21	22	22	23	23	23	23	22	22	19	16	14	13	16.9	22.8	
3-Jul-07	12	12	11	11	11	13	14	16	17	18	18	19	21	22	22	23	22	23	22	21	19	18	15	14	17.2	22.7	
4-Jul-07	13	12	11	10	9	11	14	16	18	19	21	22	23	24	24	26	25	25	23	22	20	20	19	19	18.5	25.6	
5-Jul-07	18	18	16	15	15	15	16	17	20	22	24	25	26	26	27	27	27	26	23	21	19	17	16	14	20.4	27.0	
6-Jul-07	14	13	13	12	11	12	13	14	17	19	19	21	21	22	22	23	23	22	21	20	18	15	14	13	17.3	23.4	
7-Jul-07	13	11	11	9	10	10	12	14	15	17	18	19	20	21	21	22	21	21	21	20	19	14	12	10	16.0	22.2	
8-Jul-07	9	10	9	8	8	10	12	14	16	16	17	17	17	16	17	17	17	16	15	14	13	12	11	11	13.4	17.1	
9-Jul-07	10	11	12	11	11	11	12	13	14	14	15	16	17	18	19	20	20	20	20	19	18	14	14	14	15.1	20.0	
10-Jul-07	13	11	11	11	12	13	14	15	18	19	20	22	22	23	24	24	24	24	22	24	23	22	18	18	16	18.3	24.4
11-Jul-07	15	14	13	14	14	13	16	19	21	22	24	25	25	26	27	27	27	27	27	25	22	20	18	17	20.7	27.3	
12-Jul-07	15	14	14	13	13	14	16	18	21	24	26	28	29	30	30	31	31	31	31	30	27	21	18	16	22.5	31.4	
13-Jul-07	15	16	16	14	14	15	18	19	21	23	27	29	31	32	33	34	34	34	33	32	31	29	25	26	25	24.7	33.9
14-Jul-07	24	22	21	19	17	18	19	21	24	26	27	28	29	30	30	31	31	30	30	28	24	21	19	18	24.4	30.7	
15-Jul-07	17	15	14	13	13	14	18	20	21	24	25	25	25	22	23	24	25	24	23	21	20	20	19	17	20.1	25.2	
16-Jul-07	15	14	13	12	11	11	15	17	20	22	23	25	26	26	27	27	27	25	23	23	20	17	16	16	19.6	27.3	
17-Jul-07	15	15	14	14	14	14	16	18	19	22	23	25	26	27	27	27	27	26	25	24	23	23	21	20	21.0	27.2	
18-Jul-07	19	19	18	18	18	18	19	20	22	22	23	24	24	24	25	26	25	25	24	23	21	21	20	20	21.4	25.8	
19-Jul-07	19	19	19	19	18	18	18	18	20	20	19	20	20	21	21	21	20	18	16	15	15	15	15	13	18.2	21.4	
20-Jul-07	13	14	13	12	12	13	14	16	17	19	20	21	22	22	22	22	22	22	22	21	19	17	14	13	17.7	22.5	
21-Jul-07	13	13	14	13	13	13	14	16	18	18	19	21	22	22	23	24	24	24	24	22	19	18	16	15	18.4	24.0	
22-Jul-07	15	16	15	14	14	14	16	18	21	23	24	25	26	26	27	27	27	26	25	23	20	19	17	16	20.1	27.1	
23-Jul-07	15	16	15	15	15	16	17	17	17	18	19	P	21	21	21	21	21	20	19	18	16	15	15	14	17.5	21.3	
24-Jul-07	13	12	13	12	12	12	13	14	15	16	17	18	18	18	18	18	18	18	18	17	16	15	14	12	15.2	18.4	
25-Jul-07	11	10	9	9	8	8	11	13	15	16	18	19	20	21	22	22	23	23	23	22	20	15	12	11	15.8	22.7	
26-Jul-07	10	9	8	8	8	10	12	14	16	18	20	21	23	25	25	25	26	26	25	23	21	19	18	17	17.8	26.4	
27-Jul-07	17	16	16	15	15	16	18	19	21	22	P	24	26	26	26	26	26	27	26	26	24	21	18	17	16	20.3	26.5
28-Jul-07	15	15	14	14	14	15	16	17	18	21	23	24	25	26	26	24	25	27	26	25	23	21	20	18	20.3	26.7	
29-Jul-07	18	17	17	16	16	16	15	16	17	19	20	21	23	24	23	24	24	22	19	18	17	17	15	15	18.7	24.4	
30-Jul-07	13	13	13	13	12	12	12	13	15	16	16	17	18	18	19	19	19	18	18	17	15	13	13	13	15.1	18.8	
31-Jul-07	12	11	10	9	8	7	10	12	14	14	14	12	13	14	15	15	16	16	16	16	15	13	12	11	12.8	16.1	
Hourly Avg	14.3	13.9	13.3	12.7	12.5	12.9	14.4	16.1	17.9	19.4	20.6	21.6	22.5	23.1	23.6	23.9	23.9	23.5	22.7	21.4	19.6	17.3	16.2	15.0			
Hourly Max	23.7	22.4	21.0	18.9	18.3	18.0	19.0	21.2	24.3	25.8	27.2	29.1	31.0	32.4	33.4	33.9	33.6	33.4	32.2	31.1	29.0	25.5	25.6	25.3			

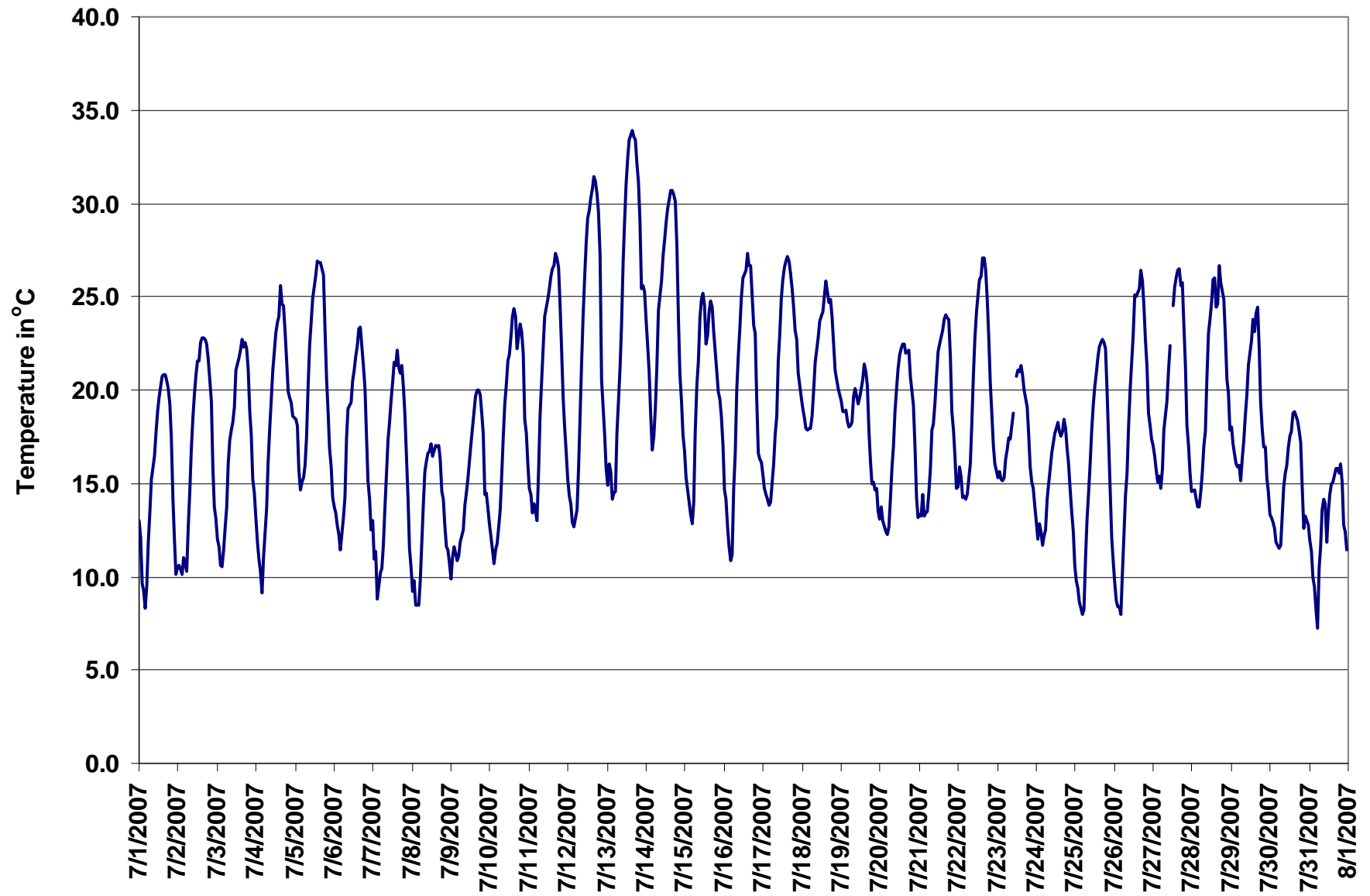


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend

PASZA - Smoky Heights Scalar Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

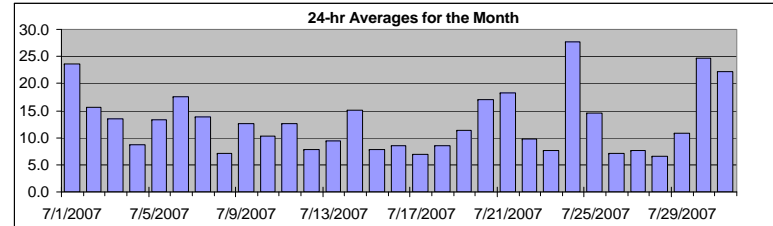
Wind Speed (WSs)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	42.4	km/hr	24-Jul	13:00 14:00
Maximum 24-hr Value:	27.7	km/hr	24-Jul	

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
	38.1	28.6	16.6	10.4	7.3	4.5	3.4	12.9 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
1-Jul-07	27	24	16	20	17	21	21	22	28	36	35	33	32	33	29	30	29	29	26	18	11	9	9	8	23.5	35.6	
2-Jul-07	8	7	11	14	13	10	8	9	15	17	18	21	25	27	28	27	26	23	19	13	9	7	9	10	15.6	28.1	
3-Jul-07	10	10	7	6	7	13	11	10	12	16	15	12	20	19	18	21	17	16	18	14	11	14	14	14	13.6	20.9	
4-Jul-07	14	14	13	9	5	5	9	11	12	9	6	7	8	9	8	5	8	9	8	6	7	9	9	9	8.7	14.1	
5-Jul-07	14	11	4	4	5	7	11	12	16	17	17	13	19	19	14	16	19	19	14	20	19	12	9	8	13.4	20.5	
6-Jul-07	14	15	16	15	15	18	21	19	21	24	24	25	22	19	15	15	22	23	18	13	10	12	14	14	17.7	25.0	
7-Jul-07	15	15	17	17	20	21	22	19	17	13	11	11	16	17	17	21	14	11	10	8	6	3	5	5	13.8	21.9	
8-Jul-07	7	8	4	3	7	7	4	7	7	8	8	9	8	13	10	7	5	8	8	4	8	4	7	8	7.0	12.9	
9-Jul-07	10	13	16	15	15	17	16	21	18	15	14	13	14	18	15	12	15	11	10	7	3	3	5	6	12.5	20.9	
10-Jul-07	8	11	8	8	7	6	9	9	10	12	17	17	17	15	13	10	8	8	11	10	6	9	10	11	10.4	17.2	
11-Jul-07	14	15	13	15	15	13	16	19	20	19	17	15	16	17	18	13	10	9	5	4	4	4	6	7	12.6	19.8	
12-Jul-07	7	5	6	7	11	9	8	9	10	9	7	8	7	12	12	13	9	8	7	5	4	5	5	5	7.9	13.1	
13-Jul-07	6	7	7	7	5	4	6	8	10	8	9	9	11	13	13	14	14	12	12	8	7	7	12	16	9.4	16.3	
14-Jul-07	30	14	15	12	8	12	10	12	10	19	17	19	21	22	20	19	17	16	14	16	13	6	8	9	15.1	30.3	
15-Jul-07	8	7	5	4	4	5	5	7	9	7	7	5	6	10	6	8	10	11	9	11	9	11	14	8	7.8	14.2	
16-Jul-07	7	12	9	7	6	7	9	11	8	7	6	6	6	6	7	9	6	6	8	6	23	13	10	10	8.5	22.8	
17-Jul-07	9	8	5	3	5	5	6	5	6	5	8	7	7	10	9	8	5	9	8	8	8	10	11	5	7.0	10.6	
18-Jul-07	5	8	8	7	8	8	8	8	8	12	11	10	12	10	9	10	8	8	9	8	6	5	9	11	8.6	12.3	
19-Jul-07	8	6	4	7	9	10	7	13	11	8	10	7	8	10	6	4	17	29	20	10	14	14	22	19	11.4	29.0	
20-Jul-07	15	17	18	12	18	20	19	17	18	26	23	28	27	29	24	21	18	14	11	8	6	6	7	7	17.1	29.1	
21-Jul-07	10	11	15	12	15	20	16	19	26	27	29	30	28	28	23	21	20	16	15	17	10	10	9	10	18.2	29.7	
22-Jul-07	13	13	9	5	6	6	6	5	7	9	9	10	15	17	16	16	17	18	11	9	6	3	4	4	9.8	18.4	
23-Jul-07	8	10	6	8	10	15	10	5	9	7	P	5	4	5	3	4	5	12	18	6	5	8	9	7.7	18.0		
24-Jul-07	12	10	14	12	10	16	17	24	40	38	38	40	42	42	40	37	34	35	37	31	28	25	22	21	27.7	42.4	
25-Jul-07	18	19	19	13	14	14	20	23	27	23	15	15	17	16	13	14	16	13	12	7	3	4	6	6	14.5	26.8	
26-Jul-07	7	6	6	5	6	5	4	5	6	6	6	8	10	10	10	10	11	13	10	8	7	5	4	5	7.1	12.6	
27-Jul-07	5	6	6	7	8	8	8	9	12	9	12	P	10	10	10	9	7	8	7	7	3	4	4	4	7.5	12.4	
28-Jul-07	6	6	4	4	5	4	5	8	9	6	7	8	8	9	7	6	9	6	7	6	7	6	8	7	6.6	9.2	
29-Jul-07	8	12	11	10	9	17	13	14	12	10	10	10	6	7	8	7	9	6	17	11	9	12	11	16	10.8	17.3	
30-Jul-07	10	16	14	14	14	25	21	26	27	27	28	35	37	30	34	38	40	37	29	18	12	11	25	24	24.7	39.8	
31-Jul-07	22	21	18	17	18	10	17	14	22	28	29	22	18	28	32	28	29	31	27	25	21	17	19	20	22.1	31.7	
1-hr Average	11.3	11.5	10.5	9.7	10.1	11.6	11.7	13.0	14.9	15.4	15.2	15.7	16.1	17.1	15.8	15.2	15.2	15.0	13.9	11.4	9.5	8.7	10.1	10.3			
Hourly Max	30.3	23.7	19.2	20.2	19.6	24.8	21.9	26.0	39.8	38.4	37.8	40.5	42.4	42.4	40.1	38.3	39.8	37.2	37.2	30.6	28.1	25.1	25.5	24.1			

PASZA - Smoky Heights Vector Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

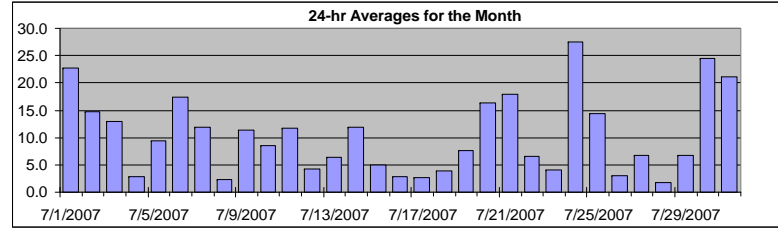
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	42.0	km/hr	24-Jul	13:00 14:00
Maximum 24-hr Value:	27.5	km/hr	24-Jul	



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
	37.8	28.0	16.1	9.8	6.6	3.5	2.4	60.0 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-07	27	24	16	20	17	21	22	22	27	35	35	33	32	33	29	30	29	29	26	18	11	9	9	7		22.6	35.3
2-Jul-07	7	6	11	14	12	9	8	8	14	17	18	21	24	27	28	27	26	23	19	13	9	7	9	10		14.8	27.8
3-Jul-07	10	6	6	6	7	13	11	10	12	16	15	11	19	18	18	20	17	16	18	14	11	14	14	14		13.0	20.4
4-Jul-07	14	14	13	8	5	4	9	11	12	9	5	6	6	8	7	1	7	9	8	6	7	9	9	9		2.8	13.9
5-Jul-07	14	11	4	2	4	7	11	12	15	16	16	12	18	19	12	15	19	18	13	20	19	12	8	7		9.4	20.0
6-Jul-07	14	15	16	15	15	18	21	19	21	24	24	25	22	18	13	14	22	22	18	13	9	12	14	14		17.5	24.8
7-Jul-07	15	15	17	17	20	21	22	19	17	12	10	10	16	15	15	19	13	11	9	8	5	2	4	5		11.9	21.9
8-Jul-07	3	8	1	3	7	6	4	7	7	7	8	9	6	12	10	5	4	8	7	3	6	3	7	8		2.4	11.9
9-Jul-07	9	13	16	15	14	17	16	21	17	14	14	13	14	17	14	12	15	10	10	7	2	3	5	6		11.3	20.8
10-Jul-07	7	11	8	8	7	6	8	9	10	11	17	16	16	14	12	9	4	7	10	10	5	9	10	11		8.6	16.6
11-Jul-07	14	15	13	15	15	13	16	19	20	19	16	14	15	16	17	12	9	8	5	4	3	3	6	7		11.7	19.6
12-Jul-07	7	5	6	7	11	9	8	9	10	9	6	6	5	11	11	12	7	8	7	5	4	4	5	4		4.3	11.6
13-Jul-07	6	7	7	7	5	4	6	8	10	8	8	9	10	13	13	13	13	12	11	7	7	5	12	16		6.4	15.5
14-Jul-07	28	8	5	7	7	12	10	12	10	19	17	18	20	22	20	18	17	16	14	16	13	6	8	9		11.9	27.9
15-Jul-07	6	6	2	3	2	3	5	7	8	7	7	5	1	7	6	7	9	11	9	9	7	11	14	5		5.0	13.8
16-Jul-07	6	12	8	6	5	7	8	11	5	6	4	4	3	3	5	7	5	6	7	6	19	13	9	9		2.8	18.9
17-Jul-07	8	7	5	3	4	5	5	5	6	4	7	5	6	9	8	6	4	9	8	8	7	8	5	3		2.7	9.3
18-Jul-07	4	8	8	6	7	8	8	8	8	10	10	10	12	9	8	9	8	7	9	5	5	4	8	9		3.9	11.8
19-Jul-07	2	5	3	6	9	9	5	12	10	7	10	7	8	10	5	4	17	29	16	3	13	14	22	19		7.6	28.8
20-Jul-07	15	17	18	11	18	20	19	17	18	26	23	28	27	29	23	21	17	14	11	7	6	6	7	7		16.3	28.7
21-Jul-07	10	10	15	11	15	20	16	19	26	27	29	29	28	28	22	21	20	15	15	16	9	10	9	10		18.0	29.3
22-Jul-07	13	12	9	5	6	6	6	4	7	8	7	9	13	16	15	15	16	18	11	8	5	3	3	4		6.6	18.3
23-Jul-07	8	10	4	7	10	15	10	3	8	7	6	P	4	3	5	2	3	2	12	18	3	3	8	8		4.1	17.8
24-Jul-07	11	10	14	12	10	16	16	24	40	38	37	40	42	42	40	37	33	34	37	30	28	25	22	21		27.5	42.0
25-Jul-07	18	19	19	13	14	14	20	23	27	22	15	15	16	15	12	13	16	13	12	7	3	4	6	6		14.4	26.7
26-Jul-07	6	5	6	5	6	5	4	4	5	5	5	8	10	9	10	9	10	12	9	8	7	4	3	5		3.0	12.2
27-Jul-07	5	6	6	7	7	8	8	8	12	9	12	P	9	10	9	8	6	7	7	6	3	3	4	4		6.7	11.6
28-Jul-07	6	6	3	4	5	4	4	4	9	5	6	7	8	8	6	6	8	5	6	6	7	6	8	7		1.8	9.0
29-Jul-07	7	6	2	9	7	10	11	13	12	10	10	5	6	8	6	8	5	16	10	9	10	8	8	16		6.8	16.4
30-Jul-07	9	16	13	14	13	25	21	26	27	27	28	35	37	30	33	38	40	37	29	18	12	11	25	24		24.5	39.5
31-Jul-07	21	21	18	17	17	10	17	14	21	27	28	21	18	27	31	27	29	31	27	25	21	17	19	20		21.1	31.4
1-hr Vector	9.0	7.6	7.6	6.9	7.2	8.6	8.5	8.8	10.1	9.8	8.8	10.7	11.4	12.3	10.3	9.9	9.3	8.6	7.8	5.5	4.1	4.3	6.6	6.8			
Hourly Max	27.9	23.5	19.1	20.2	19.6	24.7	21.9	25.9	39.7	38.1	37.5	40.1	42.0	42.0	39.8	38.0	39.5	36.9	37.0	30.4	28.0	25.0	25.4	23.8			

PASZA - Smoky Heights Wind Direction Monthly Summary

Station: Smoky Heights
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Calm Time: 0 hrs	0% calms	Operational Time: 742 hrs
Calibration Time: 0 hrs		AMD Operational Uptime: 99.7%
Percentile	99 95 75 50 25 5 1	Average
	352.7 316.9 255.2 238.2 170.8 24.3 5.9	247 deg

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	WD Sector
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jul-07	223	216	204	200	201	210	212	218	231	230	231	239	240	244	239	246	245	249	249	252	243	254	257	262	233	SW
2-Jul-07	260	244	255	241	247	252	219	171	209	220	223	234	236	241	237	248	255	258	256	261	244	233	271	274	242	WSW
3-Jul-07	268	243	192	230	241	249	272	248	201	234	249	225	227	241	240	248	238	251	264	260	243	238	265	263	244	WSW
4-Jul-07	256	252	257	248	224	250	197	211	237	228	218	238	208	208	241	61	92	56	60	41	46	60	74	88	223	SW
5-Jul-07	88	76	39	129	205	219	209	225	246	252	295	266	273	279	291	271	257	268	310	288	286	290	233	216	267	W
6-Jul-07	255	253	260	260	266	256	259	260	257	253	245	251	252	247	256	271	259	254	271	271	266	230	239	253	256	WSW
7-Jul-07	247	252	255	256	246	251	251	245	244	254	253	245	246	267	267	255	304	304	324	2	13	322	346	342	263	W
8-Jul-07	245	289	230	334	27	24	45	38	33	25	16	5	0	267	271	274	173	196	193	175	295	179	243	257	298	WNW
9-Jul-07	255	285	295	310	288	281	290	309	317	309	312	315	292	274	259	248	251	278	279	245	242	202	227	230	285	WNW
10-Jul-07	251	259	235	204	207	193	234	242	240	236	234	239	246	263	305	327	332	127	252	283	240	238	248	254	249	WSW
11-Jul-07	262	259	246	241	251	255	251	245	246	248	249	243	235	239	255	257	270	309	309	8	12	303	239	256	254	WSW
12-Jul-07	250	216	203	210	198	193	183	183	202	192	180	222	232	230	252	252	343	4	6	20	63	299	306	318	230	SW
13-Jul-07	269	247	255	239	228	204	202	196	167	148	124	123	107	110	112	107	113	123	113	106	79	93	137	164	139	SE
14-Jul-07	243	206	289	211	202	253	256	250	217	247	251	248	251	256	258	260	265	260	324	344	359	30	326	302	261	W
15-Jul-07	256	6	236	311	355	22	35	36	44	70	79	60	268	293	325	327	353	346	331	43	302	289	320	349	344	NNW
16-Jul-07	200	237	251	220	230	222	238	254	246	71	70	49	94	136	72	70	67	47	46	33	151	180	206	215	179	S
17-Jul-07	235	140	58	224	215	252	215	166	161	109	103	91	104	56	60	84	65	45	44	41	31	99	262	313	90	E
18-Jul-07	31	30	21	24	28	18	11	16	21	120	143	159	174	168	148	156	172	118	111	158	316	33	60	88	95	E
19-Jul-07	347	51	172	145	196	198	181	234	248	136	130	257	280	281	355	317	259	253	240	186	215	202	223	222	228	SW
20-Jul-07	213	210	208	223	206	197	204	195	188	205	211	221	218	224	223	230	207	213	219	263	268	272	267	240	216	SW
21-Jul-07	273	238	252	212	217	242	228	231	235	234	233	237	243	243	246	242	236	242	247	239	243	230	250	245	238	WSW
22-Jul-07	255	250	191	215	178	201	251	190	153	123	108	201	230	243	250	246	253	282	272	319	11	310	317	279	242	WSW
23-Jul-07	264	266	222	232	255	270	276	182	174	181	204	P	146	115	92	57	67	340	299	304	254	167	192	195	242	WSW
24-Jul-07	235	242	227	223	236	238	223	233	244	245	244	247	249	246	244	258	256	242	241	237	234	239	241	253	243	WSW
25-Jul-07	255	240	240	224	236	237	249	244	245	254	244	236	240	240	247	257	243	253	247	237	225	266	276	253	245	WSW
26-Jul-07	255	225	215	221	231	247	243	204	156	114	86	62	39	42	59	47	63	61	62	57	68	45	25	355	63	ENE
27-Jul-07	3	15	9	15	22	24	30	33	353	36	20	P	21	47	51	60	59	60	39	77	78	27	321	286	30	NNE
28-Jul-07	264	272	223	236	217	184	270	224	170	159	121	76	39	37	27	359	10	8	56	9	13	1	4	9	15	NNE
29-Jul-07	344	73	358	24	93	311	351	26	42	31	22	36	22	22	62	46	46	56	338	353	339	295	258	234	7	N
30-Jul-07	224	257	239	244	228	250	245	246	244	243	243	245	252	240	238	247	245	245	247	251	252	247	261	252	246	WSW
31-Jul-07	248	232	240	239	210	194	217	230	227	250	266	269	239	256	253	258	270	271	263	268	261	256	252	256	251	WSW
Hourly Avg	250	244	245	236	229	243	241	237	234	233	237	242	244	248	250	256	257	261	271	281	269	250	256	251		

PASZA - Smoky Heights Standard Deviation of Wind Direction Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	742 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	99.7%			
Percentile	99	95	75	50	25	5	1
	74.7	55.6	24.7	14.2	8.6	4.8	3.2

Status Flag Characters

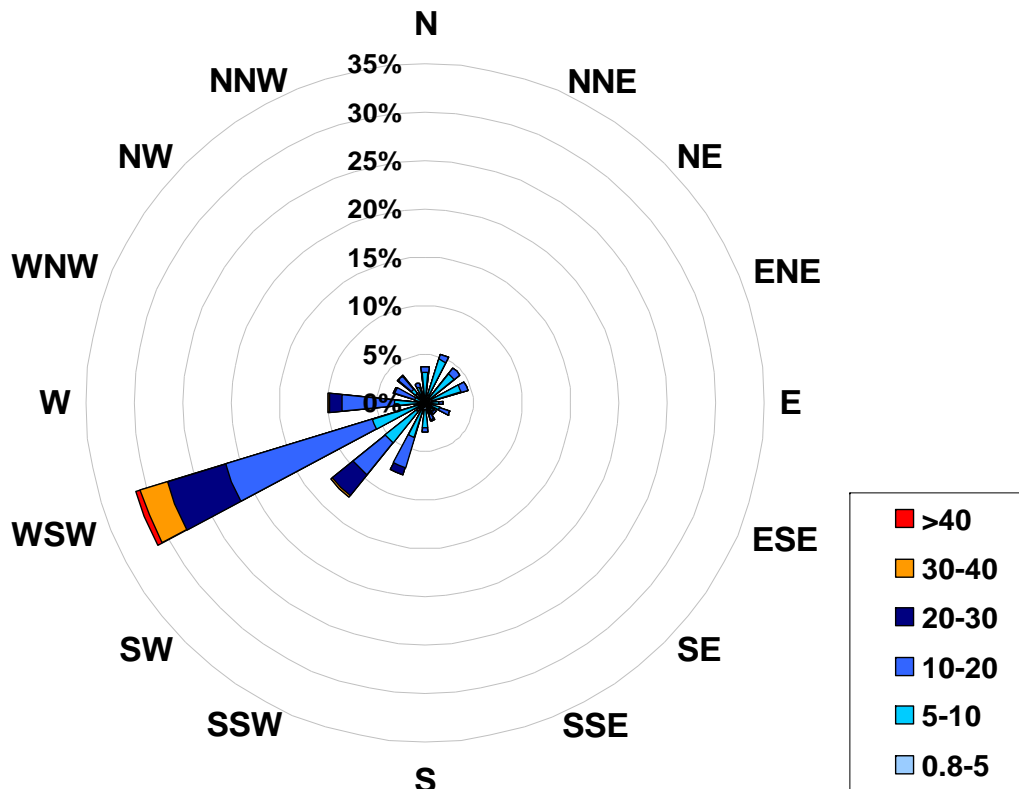
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jul-07	7	8	4	3	4	5	5	6	8	7	8	9	10	7	11	7	8	5	6	7	4	12	16	25	24.9	
2-Jul-07	20	18	17	7	9	26	21	15	25	9	13	13	9	8	8	9	9	7	9	8	8	21	6	8	26.4	
3-Jul-07	13	62	32	12	13	11	15	15	16	8	10	12	20	14	14	13	12	16	6	6	13	6	7	13	62.0	
4-Jul-07	7	5	5	37	24	34	11	21	11	19	46	42	58	35	49	88	23	15	15	9	10	8	15	10	88.1	
5-Jul-07	8	9	20	55	46	11	8	10	8	16	16	31	14	15	37	15	12	14	26	12	16	11	32	29	55.3	
6-Jul-07	9	8	8	5	6	4	2	6	9	7	8	9	9	18	25	28	11	9	5	4	20	14	2	7	27.9	
7-Jul-07	4	5	10	4	5	9	3	7	8	21	34	23	19	30	35	25	17	11	26	10	8	56	27	21	56.5	
8-Jul-07	68	26	91	63	7	17	41	12	12	11	15	19	37	23	18	75	36	9	9	48	49	62	21	9	90.6	
9-Jul-07	11	6	10	5	15	8	8	7	15	24	18	13	18	14	18	16	12	14	19	10	31	21	11	23	30.9	
10-Jul-07	16	3	18	17	13	7	19	7	13	16	16	21	16	20	26	30	72	21	34	11	38	9	17	11	72.2	
11-Jul-07	5	3	9	3	6	4	3	5	7	8	12	20	16	17	14	18	33	14	18	67	24	53	18	10	67.2	
12-Jul-07	8	26	9	13	7	7	9	11	14	20	41	39	74	23	30	30	37	19	9	29	26	47	11	9	73.6	
13-Jul-07	20	11	12	16	31	16	18	17	16	17	20	20	19	15	14	15	10	8	7	13	14	42	10	18	41.7	
14-Jul-07	25	64	72	59	14	14	10	7	18	9	9	10	9	12	10	12	13	14	17	10	9	19	18	10	71.8	
15-Jul-07	37	29	68	49	82	59	16	12	16	28	28	24	78	42	23	21	18	17	16	35	44	33	17	84	83.6	
16-Jul-07	27	13	24	25	42	29	25	8	65	41	50	52	73	66	53	33	36	8	6	9	57	16	27	35	72.6	
17-Jul-07	29	23	19	44	25	13	22	39	19	38	23	47	33	19	27	47	55	11	9	7	9	40	71	54	71.0	
18-Jul-07	42	11	8	18	23	16	13	10	21	32	15	27	16	25	30	28	16	23	14	45	39	35	20	53	53.2	
19-Jul-07	74	55	60	58	17	14	34	25	26	37	9	21	10	8	34	21	19	5	42	86	9	10	7	5	85.5	
20-Jul-07	7	6	5	18	4	5	5	8	12	9	10	12	10	9	18	12	16	14	14	21	38	11	7	10	38.5	
21-Jul-07	8	27	6	26	7	5	12	8	7	9	8	10	11	10	14	12	12	12	9	16	9	6	9	10	26.6	
22-Jul-07	10	22	17	29	22	24	17	18	19	20	37	34	35	18	12	13	17	7	11	38	14	32	56	35	55.6	
23-Jul-07	6	9	47	27	15	6	11	59	15	12	18	P	31	35	18	40	53	72	6	9	73	51	7	28	73.2	
24-Jul-07	9	13	8	12	6	6	6	8	5	7	8	8	8	8	8	8	8	10	6	6	5	4	3	4	13.0	
25-Jul-07	5	5	5	7	6	8	5	4	5	9	16	19	18	19	27	24	18	18	12	9	16	19	8	7	26.6	
26-Jul-07	10	15	9	11	7	10	14	21	23	23	25	22	12	20	16	15	25	14	10	8	6	45	40	13	44.9	
27-Jul-07	13	10	10	11	15	7	7	12	14	21	20	P	30	18	29	35	36	26	17	25	29	44	13	10	44.5	
28-Jul-07	8	5	30	13	14	42	55	64	12	47	27	25	28	31	24	22	27	25	21	14	10	13	10	8	63.7	
29-Jul-07	27	72	81	19	32	65	37	25	10	8	13	16	57	31	23	39	29	32	14	16	16	35	45	13	81.1	
30-Jul-07	14	12	16	7	13	6	12	5	6	6	8	9	8	10	11	7	7	6	5	7	6	10	5	9	16.4	
31-Jul-07	8	3	5	9	11	9	6	11	18	11	10	10	13	15	8	6	7	5	5	6	4	3	2	4	18.1	

Hourly Max	74	72	91	63	82	65	55	64	65	47	50	52	78	66	53	88	72	72	42	86	73	62	71	84
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1-hr Average Wind Rose (in km/hr) Located at the Smoky Heights Site for July 2007



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	57
5	to	10	288
10	to	20	285
20	to	30	84
30	to	40	24
	>	40	4
Total Non-Zero Values			742

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: July 1, 2007 to August 1, 2007

Alberta's Air Quality Index

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

Summary

Number of 1-hr Good Readings:	674
Number of 1-hr Fair Readings:	11
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
1-Jul-07	13	13	13	13	N	9	11	13	14	15	15	15	N	16	16	17	17	17	16	16	15	15	14	13
2-Jul-07	12	11	10	9	N	8	7	10	14	N	15	16	17	17	17	16	16	17	18	18	16	15	15	14
3-Jul-07	14	10	10	11	N	7	9	10	10	13	15	16	16	16	16	16	15	15	16	16	15	13	13	13
4-Jul-07	13	11	10	8	N	7	7	9	11	13	14	15	16	16	17	17	18	18	18	16	15	15	16	14
5-Jul-07	14	13	13	10	N	7	8	9	14	15	15	16	18	18	19	19	18	18	19	17	20	20	14	14
6-Jul-07	13	15	13	15	N	13	12	11	12	N	15	17	18	18	17	17	17	17	16	15	14	13	13	13
7-Jul-07	14	14	13	12	N	12	12	12	14	14	N	15	16	17	17	17	17	18	17	17	16	15	13	13
8-Jul-07	12	12	10	11	N	8	6	7	7	8	9	9	13	12	13	15	15	15	13	11	11	9	9	9
9-Jul-07	8	8	8	9	N	11	11	10	10	10	10	12	13	13	13	14	14	13	12	10	9	8	9	8
10-Jul-07	8	7	6	7	N	8	7	9	10	11	11	11	9	9	9	9	9	10	10	9	8	8	7	8
11-Jul-07	8	8	7	7	N	6	6	9	12	12	12	12	12	13	13	13	13	13	13	13	12	10	10	10
12-Jul-07	9	8	7	7	N	7	17	25	21	16	12	13	14	13	13	14	14	14	14	15	14	14	14	15
13-Jul-07	14	24	12	11	N	9	12	30	16	21	27	28	22	19	N	16	N	10	18	20	16	14	14	16
14-Jul-07	22	13	15	15	N	14	13	13	16	18	18	17	18	18	18	19	19	18	18	16	15	14	12	11
15-Jul-07	9	11	9	7	N	11	8	11	13	17	18	16	15	15	16	16	17	17	13	10	N	18	16	14
16-Jul-07	12	13	13	11	N	6	5	10	12	14	16	17	N	20	20	19	20	21	21	19	16	14	12	10
17-Jul-07	11	13	13	11	N	9	6	10	14	18	22	26	31	30	29	24	24	24	24	20	19	21	19	16
18-Jul-07	14	13	12	10	N	13	12	12	14	15	18	18	18	20	21	20	20	19	19	16	13	13	17	9
19-Jul-07	10	6	6	6	N	8	9	12	9	7	8	13	12	10	11	N	11	N	11	10	N	10	N	12
20-Jul-07	12	10	10	N	N	8	8	10	10	12	14	15	N	N	16	16	16	16	15	15	13	14	12	N
21-Jul-07	11	10	12	13	N	12	11	13	13	14	N	14	14	14	14	15	16	16	19	18	18	17	14	15
22-Jul-07	16	13	15	15	N	12	12	13	N	17	18	16	16	16	16	18	19	19	18	17	16	15	13	12
23-Jul-07	15	16	10	9	N	6	6	5	9	10	13	15	16	15	15	15	16	N	N	17	13	9	8	8
24-Jul-07	12	11	11	11	N	9	10	12	12	N	15	15	13	13	13	14	13	13	13	13	12	11	10	9
25-Jul-07	9	8	9	9	N	9	7	9	11	12	12	13	13	13	13	13	13	13	13	13	12	9	10	10
26-Jul-07	10	9	8	8	N	5	6	6	11	8	12	17	23	26	27	24	22	20	20	28	21	21	17	14
27-Jul-07	14	14	13	13	N	6	9	10	11	16	19	20	22	23	24	24	25	25	26	23	21	20	22	22
28-Jul-07	21	21	14	15	N	8	7	10	11	15	18	20	21	21	21	21	20	21	21	19	17	17	14	14
29-Jul-07	13	12	14	11	N	9	12	14	15	16	17	18	19	19	19	19	18	N	14	N	13	10	8	
30-Jul-07	N	N	N	9	N	8	7	N	9	10	N	11	12	12	11	11	11	11	14	14	12	11	12	10
31-Jul-07	10	10	10	10	N	8	8	9	10	10	9	9	9	9	9	8	9	9	8	7	7	7	7	7

PASZA - Beaverlodge Sulphur Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

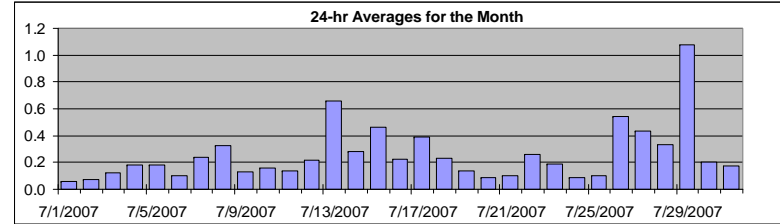
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	7.0 ppb 29-Jul 9:00 10:00
Maximum 24-hr Average:	1.1 ppb 29-Jul



AIC Time:	31 hrs	Operational Time:	710 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.1	0.8	0.3	0.1	0.1	0.0	0.0	0.3 ppb	0.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start 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-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
2-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
3-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
4-Jul-07	0	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
5-Jul-07	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	0.2	0.8
6-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
7-Jul-07	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
8-Jul-07	0	1	1	0	A	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.1
9-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
10-Jul-07	0	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.1
11-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
12-Jul-07	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8
13-Jul-07	0	1	0	0	A	1	1	1	1	1	1	1	1	C	C	C	0	0	1	1	1	1	0	0	0.7	1.2	
14-Jul-07	0	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.3	1.1
15-Jul-07	0	0	0	0	A	1	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.5	1.1
16-Jul-07	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.2	1.0
17-Jul-07	0	0	0	0	A	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0.4	0.8
18-Jul-07	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	0.8
19-Jul-07	0	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.1
20-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	0.7	
21-Jul-07	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6	
22-Jul-07	0	0	0	0	A	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	1	0	0	1	0.3	0.9	
23-Jul-07	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9	
24-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
25-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
26-Jul-07	0	0	0	0	A	0	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0.5	1.1	
27-Jul-07	1	1	1	1	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.4	
28-Jul-07	0	0	0	0	A	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	1.0	
29-Jul-07	1	1	0	0	A	0	0	0	1	7	5	4	2	1	1	0	0	0	0	0	0	0	0	0	1.1	7.0	
30-Jul-07	0	0	0	1	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7	
31-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0.2	0.7	
Hourly Avg	0.2	0.2	0.2	0.2	N	0.2	0.3	0.3	0.4	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
Hourly Max	1.4	0.9	0.7	0.8	0.0	1.1	1.0	1.1	1.3	7.0	5.3	3.5	1.9	1.1	1.0	1.0	1.0	0.7	0.8	0.6	0.9	0.8	1.1	0.7			

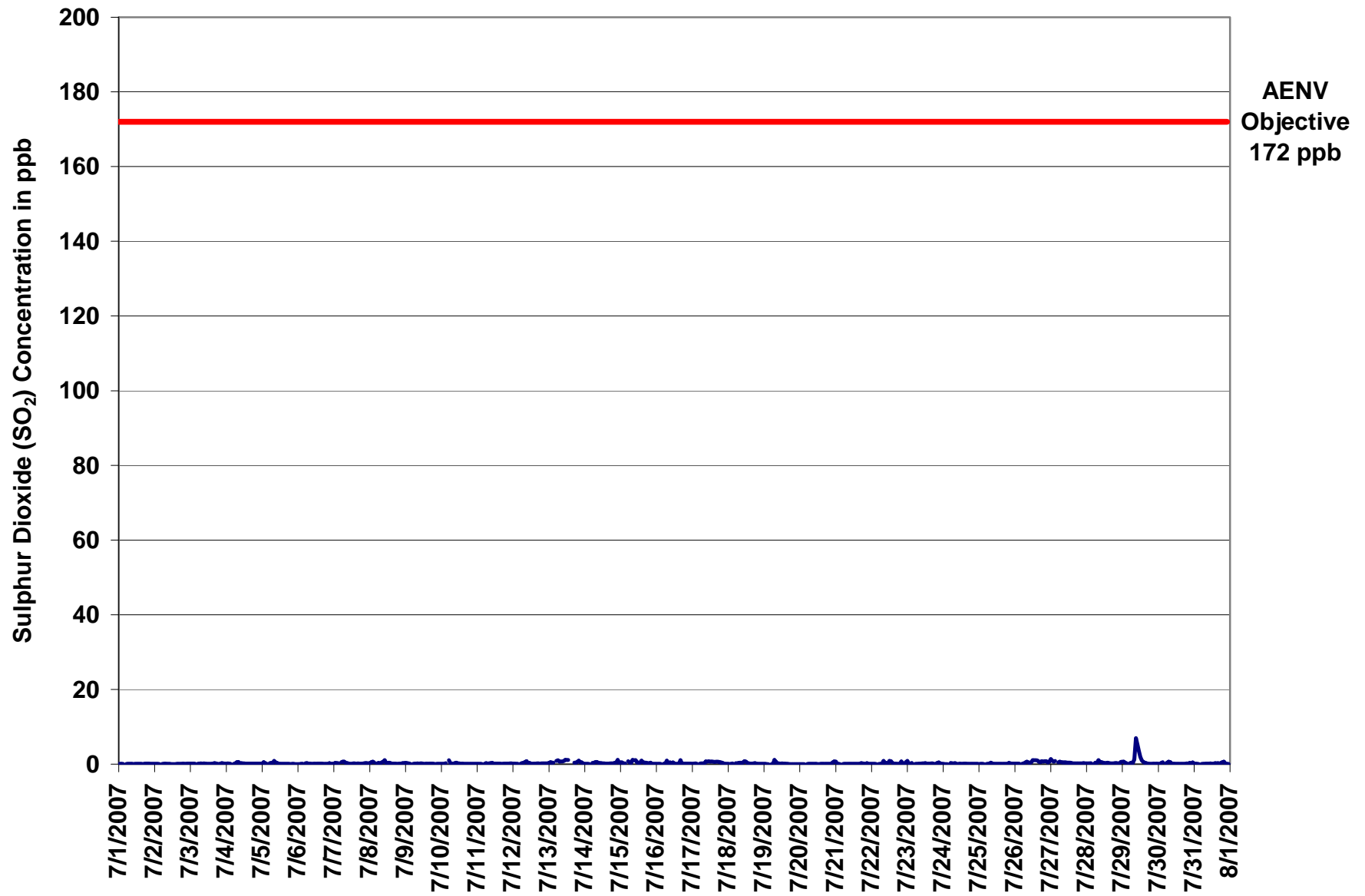


Figure 34. PASZA - Beaverlodge Sulphur Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

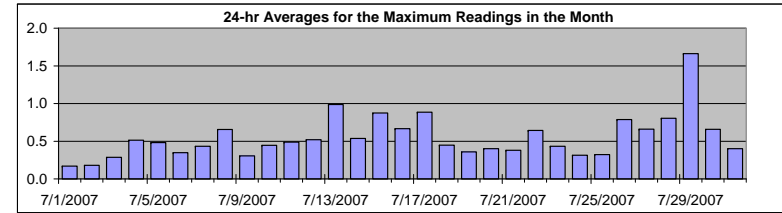
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	9.4	ppb	29-Jul	9:00 10:00
Maximum 24-hr Value:	1.7	ppb	29-Jul	



AIC Time:	31 hrs	Operational Time:	710 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.4	1.7	0.6	0.3	0.2	0.1	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	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-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2
2-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2
3-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.3	0.7	
4-Jul-07	0	0	0	0	A	0	0	0	1	3	0	1	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0.5	2.7	
5-Jul-07	0	1	1	0	A	1	0	1	2	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.5	2.1		
6-Jul-07	0	0	0	0	A	0	1	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0.3	1.9		
7-Jul-07	0	0	0	0	A	1	1	1	1	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0.4	0.9		
8-Jul-07	0	1	1	1	A	0	0	0	1	2	2	1	0	2	1	0	0	0	0	0	0	0	0	0	1	1	0.7	1.9		
9-Jul-07	1	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.1		
10-Jul-07	0	0	0	1	A	2	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.4		
11-Jul-07	0	0	0	0	A	0	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	3.5		
12-Jul-07	0	0	0	0	A	0	0	0	2	2	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.5	2.0		
13-Jul-07	1	1	1	1	A	2	1	1	1	1	1	1	1	1	2	C	C	C	1	0	1	1	1	1	1	1	1.0	1.8		
14-Jul-07	0	0	0	0	A	1	0	2	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0.5	1.6		
15-Jul-07	1	1	0	0	A	2	1	1	2	1	2	1	1	1	1	1	1	1	0	0	0	0	2	0	0	0	0.9	2.5		
16-Jul-07	0	0	0	0	A	0	1	2	1	1	0	1	0	0	0	0	0	5	2	0	0	0	0	0	0	0	0.7	4.7		
17-Jul-07	0	0	0	0	A	0	0	0	1	3	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.9	4.4		
18-Jul-07	0	0	0	1	A	0	0	1	1	0	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0.5	1.1		
19-Jul-07	0	0	0	0	A	0	0	3	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.5		
20-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0.4	3.9		
21-Jul-07	2	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	0	0	0.4	1.9		
22-Jul-07	0	0	0	0	A	0	0	0	2	1	1	0	1	1	1	0	0	1	0	0	0	0	3	1	0	1	0.6	3.0		
23-Jul-07	2	0	0	1	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0.4	1.5		
24-Jul-07	0	0	0	0	A	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.3		
25-Jul-07	0	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0.3	1.0		
26-Jul-07	0	0	0	0	A	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.5		
27-Jul-07	2	1	1	1	A	1	2	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.7	2.1		
28-Jul-07	0	0	0	1	A	0	2	1	6	1	1	1	0	0	1	0	0	0	0	0	0	0	0	1	1	1	0.8	6.3		
29-Jul-07	1	1	0	1	A	1	1	1	3	9	7	5	2	1	1	1	0	0	0	0	0	0	2	0	1	1	1.7	9.4		
30-Jul-07	0	0	1	1	A	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	0.7	2.1		
31-Jul-07	0	0	0	0	A	0	0	0	0	1	0	1	1	0	1	0	0	0	0	1	1	1	0	0	0	0	0.4	1.0		
Hourly Avg	0.5	0.4	0.3	0.4	N	0.5	0.6	0.7	1.1	1.1	1.0	0.6	0.5	0.6	0.5	0.3	0.5	0.4	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5				
Hourly Max	2.1	1.3	1.0	1.1	0.0	2.3	2.1	2.5	6.3	9.4	6.7	4.6	2.5	1.9	1.4	1.2	4.7	1.5	0.9	1.0	3.0	1.7	3.9	2.1						

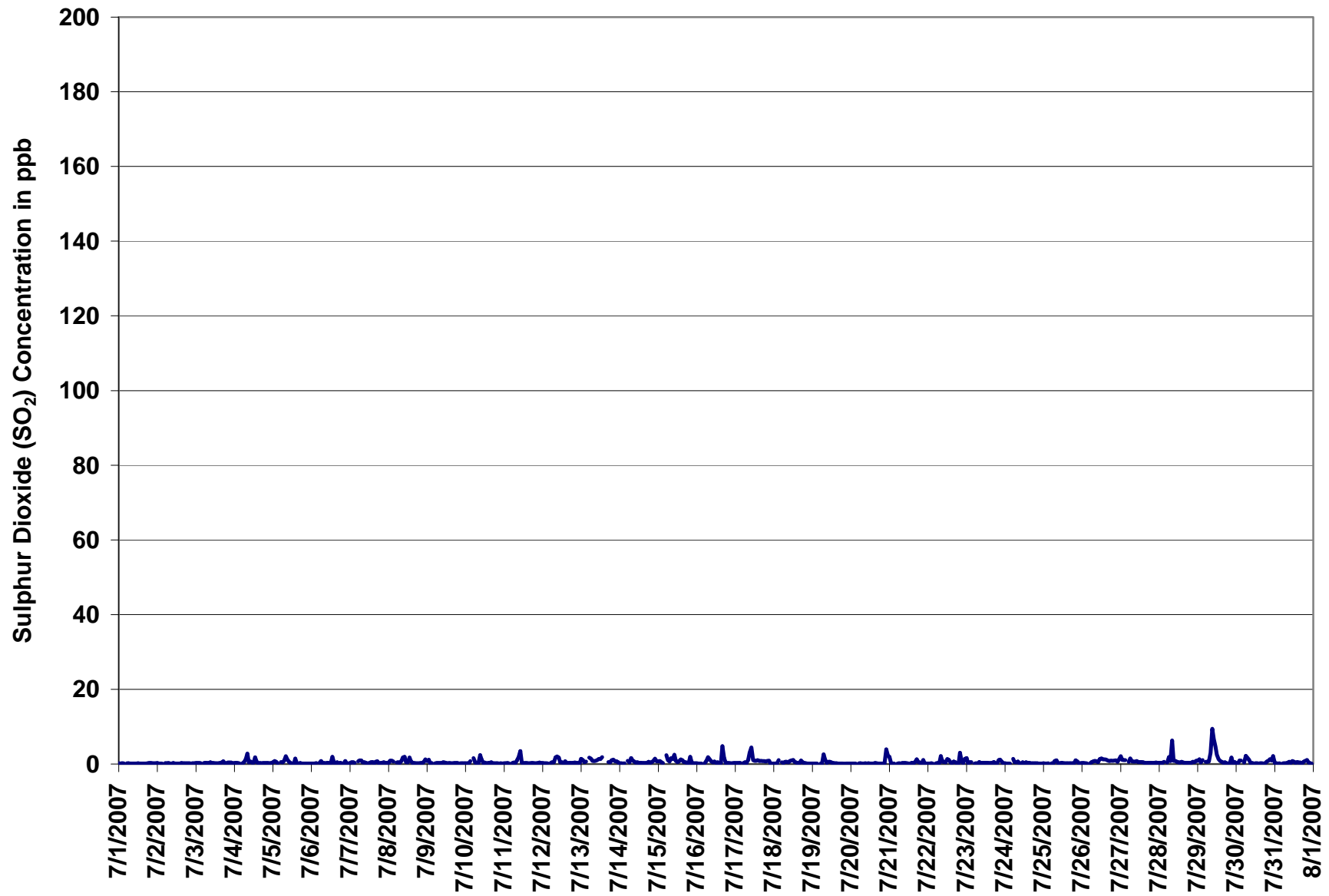
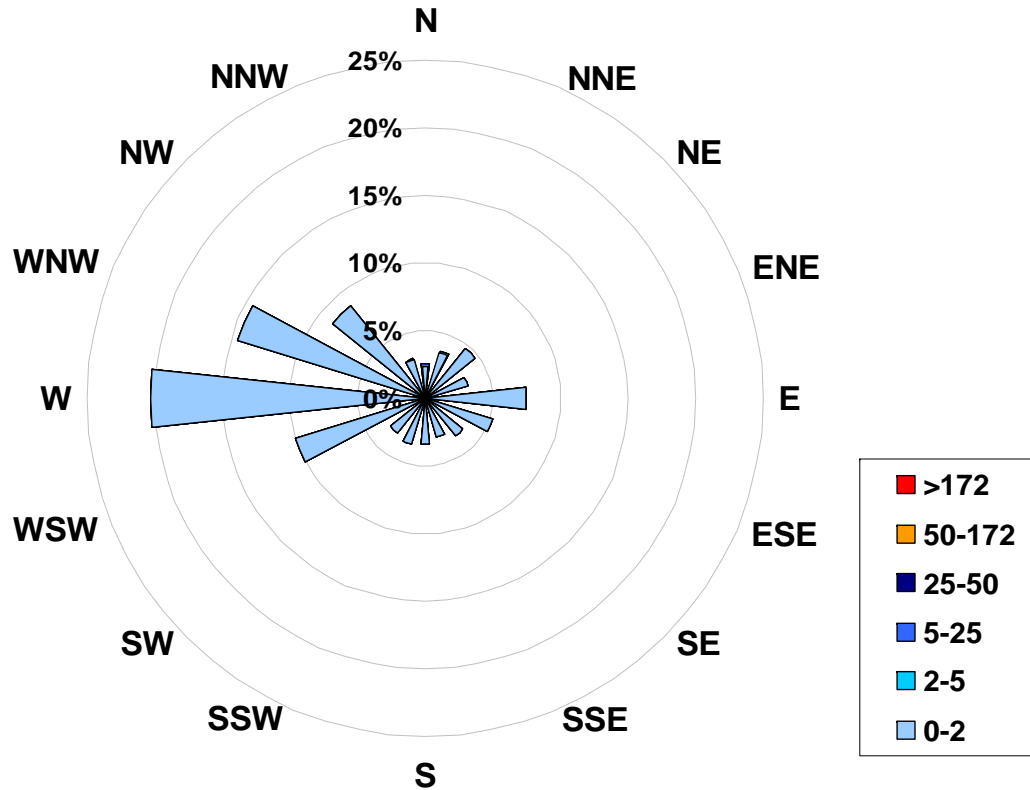


Figure 35. PASZA - Beaverlodge Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	< 2		707
2	to 5		1
5	to 25		2
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

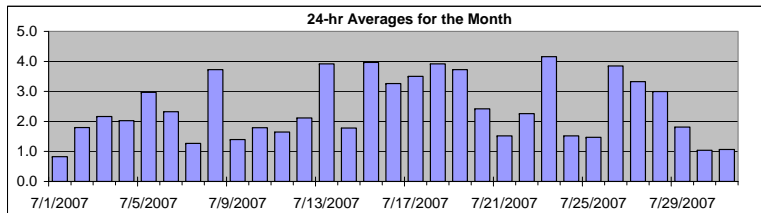
Nitrogen Dioxide (NO₂)

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	10.1 ppb	5-Jul	5:00 6:00	
Maximum 24-hr Average:	4.2 ppb	23-Jul		



AIC Time:	34 hrs		Operational Time:	707 hrs					
Calibration Time:	3 hrs		AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	7.7	5.5	3.3	2.1	1.0	0.7	0.3	2.4 ppb	2.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Jul-07	1	0	0	0	A	4	2	1	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	2	0.8	3.9
2-Jul-07	3	3	3	4	A	4	3	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	3	1.8	3.9
3-Jul-07	2	4	4	3	A	5	5	4	3	2	1	1	1	1	1	1	1	1	1	2	1	2	2	1	2.2	5.3
4-Jul-07	1	2	2	3	A	3	4	4	3	1	1	1	1	3	2	1	1	1	1	1	2	4	3	2	2.0	4.3
5-Jul-07	3	3	3	3	A	10	8	4	2	1	1	1	1	1	3	1	1	1	2	4	3	2	5	4	3.0	10.1
6-Jul-07	3	2	5	4	A	5	3	2	2	1	1	1	1	4	1	1	1	1	1	3	3	3	2	2	2.3	5.5
7-Jul-07	1	2	2	1	A	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1.3	2.8
8-Jul-07	2	2	2	2	A	5	8	5	4	5	5	7	3	2	2	2	2	2	3	4	4	5	6	4	3.7	8.2
9-Jul-07	3	2	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	3	1.4	2.9
10-Jul-07	2	3	5	4	A	3	4	1	1	1	0	1	1	1	1	1	1	1	1	2	3	2	2	1	1.8	4.7
11-Jul-07	1	1	2	2	A	3	3	2	1	1	3	1	1	1	1	1	1	1	1	1	2	3	2	3	1.6	3.3
12-Jul-07	3	3	2	2	A	2	4	4	4	4	4	2	1	1	1	1	1	1	1	1	2	3	2	2	2.1	4.5
13-Jul-07	3	4	4	3	A	6	5	8	5	4	5	C	C	C	A	4	3	3	3	4	3	3	3	3	3.9	7.5
14-Jul-07	2	3	2	2	A	4	3	4	2	1	1	1	1	1	1	1	1	1	1	1	2	3	3	3	1.8	4.3
15-Jul-07	6	3	5	9	A	4	5	5	4	3	3	4	5	4	3	2	2	2	3	6	2	3	4	4	4.0	8.8
16-Jul-07	4	4	4	5	A	7	5	5	3	2	2	1	1	1	1	1	1	2	2	3	5	6	5	5	3.3	7.1
17-Jul-07	5	4	4	4	A	4	7	5	5	3	3	4	3	2	2	2	3	2	2	3	3	3	3	4	3.5	6.7
18-Jul-07	5	4	6	6	A	4	4	3	2	3	2	2	3	3	3	3	3	4	6	6	5	4	5	5	3.9	6.3
19-Jul-07	6	6	5	5	A	4	4	5	5	3	4	3	4	3	4	4	2	2	2	2	2	2	3	3	3.7	6.5
20-Jul-07	3	5	4	6	A	5	5	2	2	1	1	1	1	1	1	1	1	1	2	1	3	3	4	3	2.4	5.6
21-Jul-07	3	2	1	1	A	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	3	4	3	1.5	3.9
22-Jul-07	2	3	2	2	A	5	4	2	2	2	2	2	1	1	1	1	1	1	1	1	2	3	5	6	2.3	5.8
23-Jul-07	3	2	5	8	A	8	6	7	6	5	4	2	2	2	2	3	2	3	2	3	5	7	5	3	4.2	8.2
24-Jul-07	1	2	1	1	A	5	3	2	2	1	1	1	1	A	A	1	1	1	1	1	1	2	1	2	1.5	5.0
25-Jul-07	2	2	1	1	A	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1	2	4	3	3	1.5	4.5
26-Jul-07	3	3	4	5	A	4	6	7	6	5	5	5	5	3	3	2	2	1	2	3	4	4	3	3	3.8	7.4
27-Jul-07	3	4	3	3	A	10	8	5	5	3	2	2	1	1	1	1	2	2	2	3	5	4	3	3	3.3	9.6
28-Jul-07	3	3	7	5	A	6	6	6	4	3	2	2	1	1	2	1	1	1	2	2	3	2	3	3	3.0	6.6
29-Jul-07	3	3	2	3	A	3	2	2	2	2	2	2	1	1	1	1	1	1	1	1	2	3	3	3	1.8	3.1
30-Jul-07	2	1	1	1	A	3	3	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	2	1.0	3.0
31-Jul-07	1	1	1	1	A	2	2	1	0	0	0	0	0	1	1	1	1	1	1	1	2	3	1	1	1.1	2.8
Hourly Avg	2.7	2.8	3.0	3.2	N	4.3	4.3	3.5	2.7	2.0	1.9	1.7	1.5	1.5	1.5	1.3	1.3	1.4	1.6	2.2	2.5	3.0	3.0	2.9		
Hourly Max	5.7	6.5	6.6	8.8	0.0	10.1	8.2	7.5	6.2	4.9	5.4	7.1	4.7	4.4	3.8	3.7	3.0	4.1	6.3	6.0	5.3	7.1	6.2	5.8		

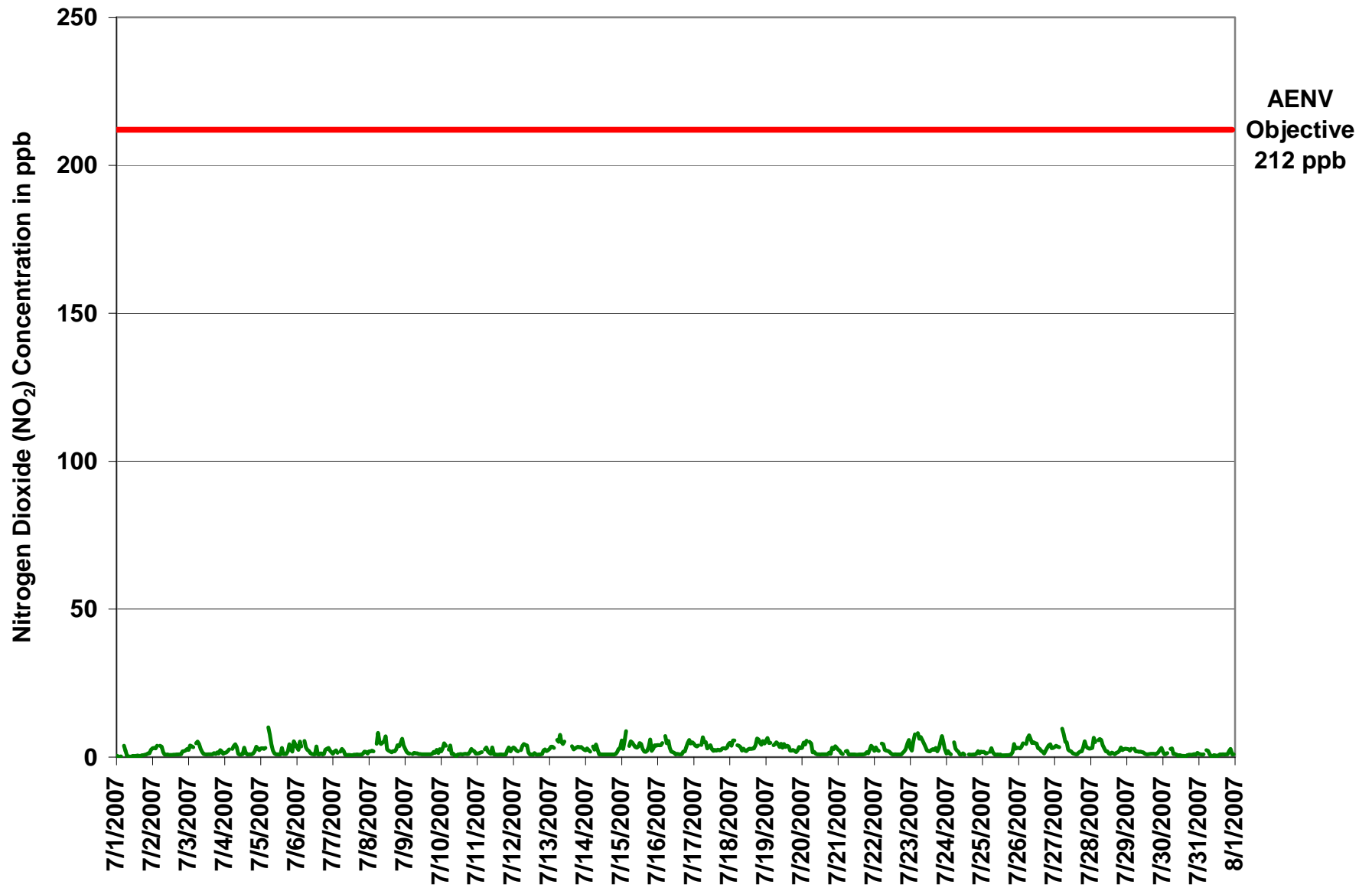


Figure 36. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

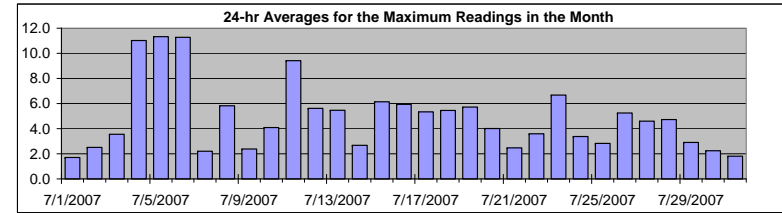
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	153.6	ppb	6-Jul	13:00 14:00
Maximum 24-hr Value:	11.3	ppb	5-Jul	



AIC Time:	34 hrs	Operational Time:	707 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	28.4	10.5	5.1	3.0	1.9	1.0	0.9	4.9 ppb	3.0 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	Hour End	0:00	1:00	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-Jul-07	1	1	1	1	A	7	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	6	1.7	7.0
2-Jul-07	5	4	4	5	A	4	4	3	1	1	1	1	1	1	1	1	1	1	2	2	2	1	5	3	3	4	2.5	5.0
3-Jul-07	3	5	5	5	A	7	8	8	4	3	2	2	1	2	1	2	1	2	4	2	4	3	4	4	2	3.5	8.0	
4-Jul-07	2	3	3	4	A	5	5	9	13	6	1	2	7	137	36	1	1	1	2	2	3	6	3	3	3	11.0	137.2	
5-Jul-07	3	4	4	6	A	14	13	8	25	2	2	2	1	2	127	2	2	2	8	9	8	4	8	6	6	11.3	126.8	
6-Jul-07	6	5	9	6	A	16	7	4	3	3	4	1	1	154	2	1	3	2	2	6	9	8	6	3	3	11.3	153.6	
7-Jul-07	2	5	5	3	A	3	5	4	1	1	1	1	1	1	1	1	1	1	1	1	1	4	3	3	2	2.2	5.4	
8-Jul-07	3	2	3	3	A	14	14	6	6	7	7	11	5	3	3	2	3	2	4	6	5	10	8	7	5.8	13.9		
9-Jul-07	5	4	2	2	A	2	3	2	2	2	2	1	1	1	1	1	1	1	3	3	3	3	3	7	2.4	7.0		
10-Jul-07	3	4	6	6	A	4	6	2	2	13	12	2	2	2	2	1	3	2	2	3	4	8	4	3	2	4.1	12.9	
11-Jul-07	3	3	2	4	A	4	5	3	10	24	129	2	2	1	1	1	1	1	2	1	6	6	3	3	9.4	129.2		
12-Jul-07	4	4	3	3	A	5	5	7	9	6	31	1	1	1	1	30	2	1	1	1	2	3	3	6	3	5.6	30.6	
13-Jul-07	5	5	7	4	A	10	8	10	7	5	6	C	C	C	A	4	4	4	4	5	4	4	4	5	5.5	10.0		
14-Jul-07	3	4	3	3	A	6	4	7	4	1	2	2	1	1	1	1	1	2	1	1	2	3	5	4	2.7	7.0		
15-Jul-07	10	4	12	12	A	11	7	5	5	4	4	5	9	7	4	2	2	5	6	9	4	4	6	5	6.1	12.0		
16-Jul-07	6	6	5	7	A	11	7	29	5	3	2	2	1	6	1	3	1	3	3	7	7	9	6	7	5.9	28.6		
17-Jul-07	7	5	5	5	A	5	11	6	22	4	5	5	4	3	3	3	3	3	3	4	4	3	5	5	5.3	21.8		
18-Jul-07	6	6	9	8	A	5	5	8	3	4	3	3	3	3	3	4	4	5	11	8	6	6	8	5	5.5	10.9		
19-Jul-07	8	8	6	6	A	5	7	7	8	6	9	4	10	6	5	5	3	3	5	4	3	4	6	4	5.7	10.0		
20-Jul-07	4	7	5	9	A	7	8	3	3	2	2	2	1	3	2	2	1	2	3	2	5	4	6	10	4.0	10.0		
21-Jul-07	5	4	3	2	A	4	4	1	1	1	1	1	1	1	1	1	1	2	2	4	3	5	5	5	2.5	5.0		
22-Jul-07	3	6	4	3	A	5	6	4	3	3	2	2	1	1	2	1	1	1	1	1	3	3	4	11	14	3.6	14.0	
23-Jul-07	5	3	10	10	A	10	10	9	14	7	4	4	3	3	3	4	5	6	2	6	10	12	9	5	6.7	13.9		
24-Jul-07	2	5	2	1	A	8	6	4	4	1	2	16	1	A	A	1	1	1	1	2	2	4	3	4	3.4	16.0		
25-Jul-07	3	2	3	2	A	3	5	4	3	3	1	1	3	1	1	1	1	1	1	2	5	12	4	4	2.8	12.3		
26-Jul-07	4	3	4	6	A	9	9	10	7	6	7	6	6	4	3	3	2	2	3	7	6	6	4	4	5.3	9.9		
27-Jul-07	4	4	5	4	A	12	11	6	7	5	3	3	2	2	2	2	2	2	3	5	11	5	4	3	4.6	12.0		
28-Jul-07	4	7	13	7	A	7	10	9	7	5	3	3	2	2	2	2	2	2	2	3	6	5	3	4	4.7	13.0		
29-Jul-07	5	4	3	4	A	4	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	5	6	5	2.9	6.0		
30-Jul-07	2	2	2	3	A	5	6	3	8	1	1	1	1	1	1	1	1	1	1	1	2	2	1	4	2.2	8.0		
31-Jul-07	2	2	2	2	A	4	3	2	1	1	2	1	1	1	1	1	1	1	1	1	3	6	2	1	1.8	6.0		
Hourly Avg	4.1	4.2	4.8	4.7	N	6.9	6.7	6.0	6.1	4.2	8.1	2.9	2.5	12.2	8.3	1.9	1.8	2.2	2.8	3.7	4.7	5.1	4.8	4.7				
Hourly Max	9.9	8.0	13.0	12.0	0.0	15.7	13.9	28.6	24.6	24.0	129.2	16.0	10.0	153.6	126.8	5.0	5.0	6.0	10.9	9.0	10.9	12.3	11.0	14.0				

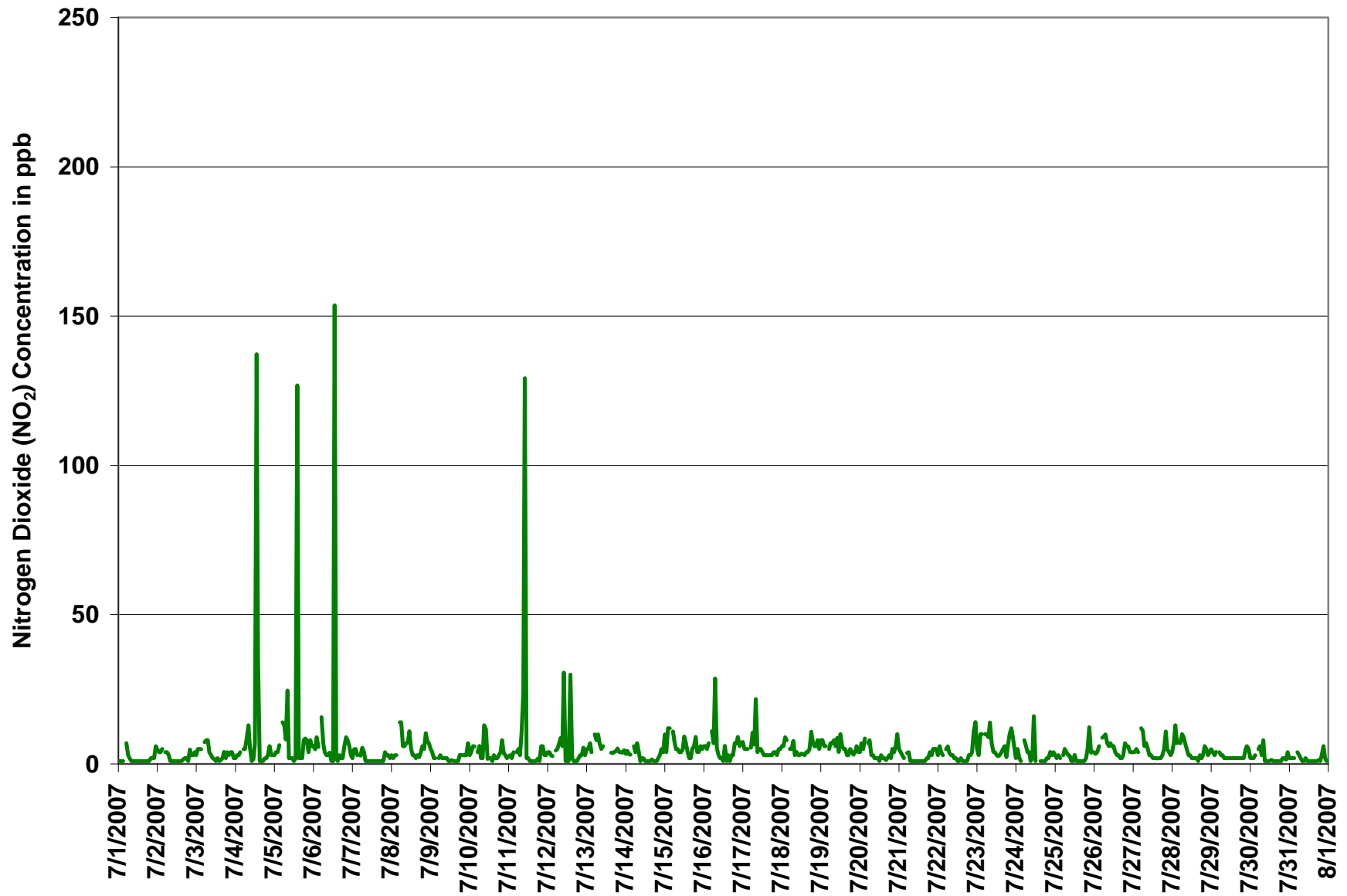
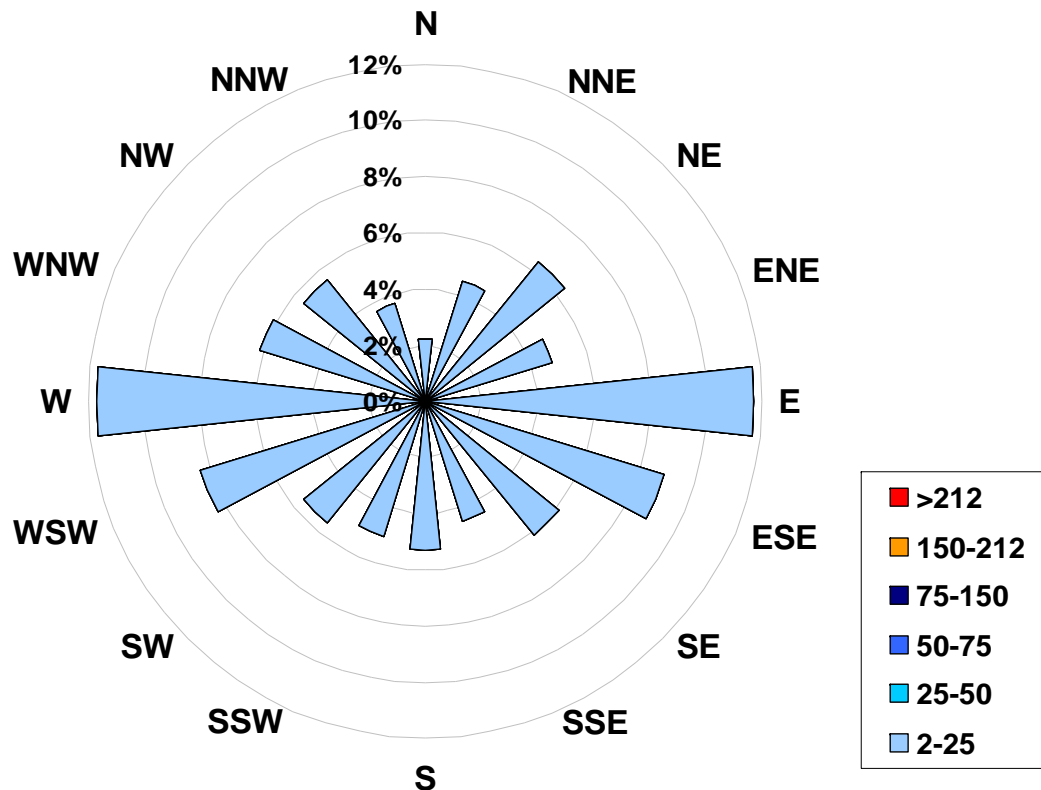


Figure 37. PASZA - Beaverlodge Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
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

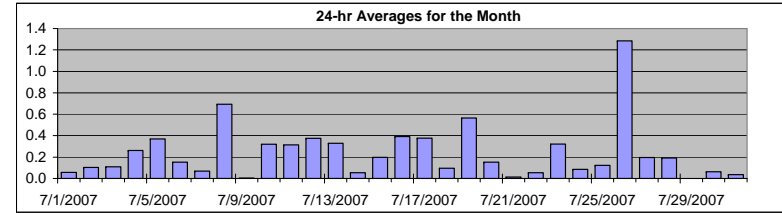
Nitric Oxide (NO)

Monitoring Dates: July 1, 2007 to August 1, 2007

Guideline Limit:

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

Maximum 1-hr Average:	11.4	ppb	26-Jul	7:00 8:00
Maximum 24-hr Average:	1.3	ppb	26-Jul	



AIC Time:	34 hrs	Operational Time:	707 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.4	1.6	0.0	0.0	0.0	0.0	0.0	0.2 ppb	0.0 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum			
	Hour Start 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-Jul-07	0	0	0	0	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.8	
2-Jul-07	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.3	
3-Jul-07	0	0	0	0	A	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.8	
4-Jul-07	0	0	0	0	A	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.0	
5-Jul-07	0	0	0	0	A	3	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	3.4	
6-Jul-07	0	0	0	0	A	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0	
7-Jul-07	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9	
8-Jul-07	0	0	0	0	A	0	6	3	2	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	6.5	
9-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
10-Jul-07	0	0	0	0	A	0	1	0	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	3.7	
11-Jul-07	0	0	0	0	A	0	1	1	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	3.1	
12-Jul-07	0	0	0	0	A	0	1	2	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.0	
13-Jul-07	0	0	0	0	A	1	2	3	1	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0.3	3.1	
14-Jul-07	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9	
15-Jul-07	0	0	0	0	A	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.8	
16-Jul-07	0	0	0	0	A	2	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	3.0	
17-Jul-07	0	0	0	0	A	0	4	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	3.7	
18-Jul-07	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6	
19-Jul-07	0	0	0	0	A	0	1	2	2	1	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.6	2.1	
20-Jul-07	0	0	0	0	A	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.7	
21-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3	
22-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
23-Jul-07	0	0	0	0	A	1	1	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.7	
24-Jul-07	0	0	0	0	A	0	1	0	0	0	0	0	0	A	A	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6	
25-Jul-07	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.2	
26-Jul-07	0	0	0	0	A	1	5	11	6	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1.3	11.4	
27-Jul-07	0	0	0	0	A	1	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.6	
28-Jul-07	0	0	0	0	A	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.6	
29-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
30-Jul-07	0	0	0	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.1	
31-Jul-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.5	
Hourly Avg	0.0	0.0	0.0	0.0	N	0.4	1.4	1.4	0.9	0.5	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hourly Max	0.0	0.0	0.1	0.1	0.0	3.3	6.5	11.4	6.0	3.1	3.7	1.7	2.1	0.8	0.4	0.1	0.1	0.2	0.1	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PASZA - Beaverlodge Oxides of Nitrogen Monthly Summary

HOURLY AVERAGE TABLE

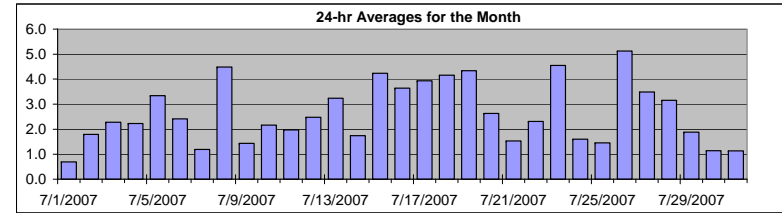
Oxides of Nitrogen (NO_x)

Station: Beaverlodge
 Station Owner: PASZA

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Maximum 1-hr Average:					18.9	ppb	26-Jul	7:00 8:00
Maximum 24-hr Average:					5.1	ppb	26-Jul	



AIC Time:	34 hrs	Operational Time:	707 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	10.5	6.5	3.5	2.1	1.0	0.5	0.1	2.6 ppb	2.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Jul-07	0	0	0	0	A	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	0.7	4.3	
2-Jul-07	3	3	3	4	A	4	5	3	1	1	1	1	0	0	1	1	1	1	1	1	2	2	2	3	1.8	4.7	
3-Jul-07	2	4	4	3	A	5	6	5	3	2	1	1	1	1	1	1	1	2	1	2	1	2	2	1	2.3	6.0	
4-Jul-07	1	1	2	2	A	3	5	6	5	1	1	1	1	1	3	2	1	1	1	1	1	2	4	3	2	2.2	6.3
5-Jul-07	3	3	3	3	A	13	11	6	3	1	1	1	1	1	1	3	1	1	1	2	4	3	2	5	4	3.3	13.5
6-Jul-07	3	2	5	4	A	6	4	3	3	2	1	1	1	4	1	1	1	1	1	3	3	3	2	2	2.4	6.0	
7-Jul-07	1	2	2	1	A	2	4	3	1	1	1	1	1	0	1	1	1	0	1	1	1	2	2	1	1.2	3.7	
8-Jul-07	2	2	2	2	A	5	15	9	6	6	7	9	3	3	2	2	2	2	3	4	4	5	6	4	4.5	14.7	
9-Jul-07	3	2	1	1	A	1	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	3	1.4	2.8	
10-Jul-07	2	3	5	4	A	3	5	2	2	2	4	1	1	1	1	1	1	1	1	2	3	2	2	1	2.2	5.4	
11-Jul-07	1	1	2	2	A	3	5	3	3	4	4	1	1	1	1	1	1	1	1	1	2	3	2	3	2.0	4.7	
12-Jul-07	3	3	2	2	A	3	5	6	6	5	4	1	1	1	1	1	1	1	1	1	2	3	2	2	2.5	6.5	
13-Jul-07	3	3	3	3	A	7	7	11	6	5	6	C	C	C	A	0	0	0	0	1	1	2	1	1	3.2	10.7	
14-Jul-07	1	2	2	2	A	4	3	5	3	1	1	1	1	1	1	1	1	1	1	1	1	2	3	3	1.7	5.3	
15-Jul-07	6	3	6	9	A	4	7	6	5	4	3	4	5	5	3	2	2	2	4	6	2	3	4	4	4.2	8.8	
16-Jul-07	4	4	4	5	A	9	8	8	4	2	2	1	1	1	1	1	1	2	2	4	5	6	5	5	3.6	8.7	
17-Jul-07	5	4	4	4	A	4	11	7	7	4	4	5	3	2	2	2	3	2	2	3	3	3	3	4	3.9	10.6	
18-Jul-07	5	4	6	6	A	4	4	4	3	3	3	2	3	3	3	3	3	4	7	6	5	4	6	5	4.2	6.5	
19-Jul-07	6	7	5	5	A	4	5	7	6	4	6	4	7	4	4	4	2	2	3	2	2	3	3	3	4.3	6.8	
20-Jul-07	3	5	4	6	A	6	6	2	2	2	1	1	1	1	1	1	1	1	1	2	1	3	3	4	3	2.6	6.4
21-Jul-07	3	2	1	1	A	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	4	3	1.5	3.8
22-Jul-07	2	3	2	2	A	5	5	3	3	3	2	1	1	1	1	1	1	1	1	1	2	3	5	6	2.3	5.8	
23-Jul-07	3	2	5	8	A	9	7	8	7	6	5	3	2	2	3	3	3	3	2	3	5	7	5	3	4.5	8.6	
24-Jul-07	1	2	1	1	A	5	3	3	2	1	1	1	1	A	A	1	1	1	1	1	1	2	1	2	1	1.6	5.4
25-Jul-07	1	2	1	1	A	2	4	2	1	1	1	1	1	1	0	0	0	0	0	0	1	2	4	3	3	1.5	4.4
26-Jul-07	3	3	3	5	A	5	12	19	12	8	7	6	5	3	3	2	2	1	2	3	4	4	3	3	5.1	18.9	
27-Jul-07	3	4	3	3	A	10	9	6	6	3	2	2	1	1	1	1	1	2	2	3	5	4	3	3	3.5	10.2	
28-Jul-07	3	3	7	5	A	6	7	8	5	4	2	2	1	1	1	1	1	1	2	2	3	2	3	3	3.2	7.6	
29-Jul-07	3	3	2	3	A	3	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	2	3	3	1.9	3.2	
30-Jul-07	2	1	1	1	A	3	4	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1.1	4.1	
31-Jul-07	1	1	1	1	A	3	3	1	0	0	1	1	1	1	1	1	1	1	1	1	2	3	1	1	1.1	2.8	
Hourly Avg	2.6	2.7	3.0	3.2	N	4.8	5.8	4.9	3.6	2.6	2.4	1.9	1.6	1.6	1.5	1.2	1.2	1.3	1.5	2.1	2.5	2.9	2.9	2.8			
Hourly Max	5.7	6.7	6.5	8.8	0.0	13.5	14.7	18.9	12.3	7.6	6.7	8.7	6.7	4.8	4.4	4.0	3.1	4.2	6.5	6.4	5.4	7.3	6.3	5.8			

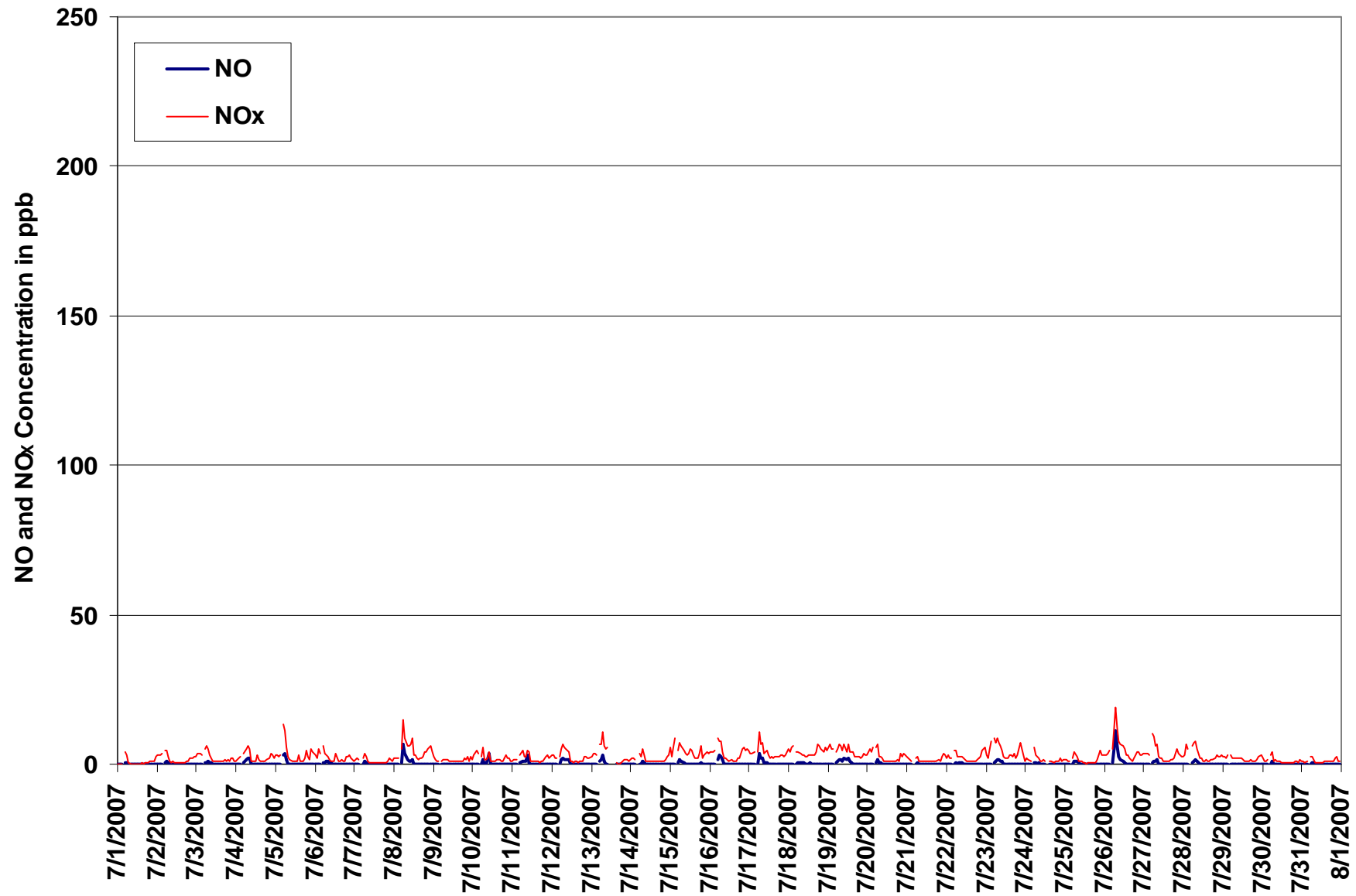


Figure 38. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

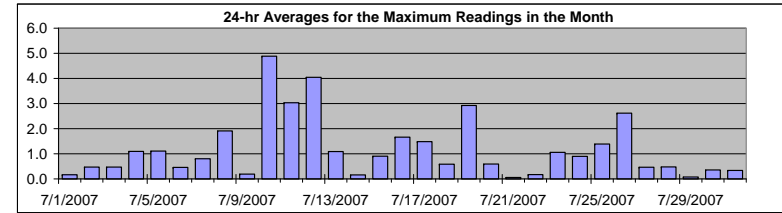
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	55.7	ppb	10-Jul	9:00 10:00
Maximum 24-hr Value:	4.9	ppb	10-Jul	



AIC Time:	34 hrs	Operational Time:	707 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	17.0	5.5	1.0	0.0	0.0	0.0	0.0	1.2 ppb	0.0 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum				
	Hour Start	Hour End	0:00	1:00	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-Jul-07			0	0	0	0	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0
2-Jul-07			0	0	0	0	A	1	2	2	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	1	0.5	2.0	
3-Jul-07			0	0	0	0	A	2	2	3	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.5	2.9	
4-Jul-07			0	0	0	0	A	2	2	5	6	4	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	6.3	
5-Jul-07			0	0	0	1	A	7	9	5	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1.1	8.5	
6-Jul-07			0	0	0	0	A	2	2	1	2	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.5	2.0	
7-Jul-07			0	0	0	0	A	0	17	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	17.0	
8-Jul-07			0	0	0	0	A	10	15	6	2	2	2	4	1	0	1	0	0	0	0	0	0	1	0	0	0	1.9	15.0	
9-Jul-07			0	0	0	0	A	0	0	1	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.2	1.0	
10-Jul-07			0	0	0	0	A	0	3	1	1	56	44	0	1	1	0	1	1	1	1	1	1	1	0	0	0	4.9	55.7	
11-Jul-07			0	0	0	1	A	1	2	2	14	32	17	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3.0	31.9	
12-Jul-07			0	0	0	0	A	3	3	4	7	35	24	0	15	0	0	0	1	0	0	0	1	0	0	0	0	4.0	35.0	
13-Jul-07			0	0	0	0	A	6	5	7	2	1	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	1.1	6.8	
14-Jul-07			0	0	0	0	A	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.9	
15-Jul-07			1	0	0	0	A	7	4	2	1	1	0	0	3	1	0	0	0	0	0	0	1	0	0	0	0	0.9	7.4	
16-Jul-07			0	0	0	0	A	6	7	11	2	1	3	0	1	7	0	1	0	0	0	0	0	0	0	0	0	1.7	10.8	
17-Jul-07			0	0	0	0	A	1	15	3	13	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	14.7	
18-Jul-07			0	1	1	1	A	1	1	2	2	1	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0.6	2.0	
19-Jul-07			1	1	1	1	A	1	2	5	4	3	13	22	7	2	1	1	0	0	1	1	1	1	0	0	0	2.9	22.4	
20-Jul-07			0	0	0	0	A	2	3	2	1	1	0	0	0	1	0	1	0	1	0	0	0	1	0	1	1	0.6	2.9	
21-Jul-07			0	0	0	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0	
22-Jul-07			0	0	0	0	A	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	1.0	
23-Jul-07			0	0	0	0	A	1	2	2	10	2	2	1	0	0	0	1	0	1	0	1	0	1	1	1	0	1.1	9.8	
24-Jul-07			0	0	0	0	A	2	2	1	1	1	1	8	1	A	A	1	1	0	1	0	0	0	0	0	0	0.9	8.2	
25-Jul-07			0	0	0	0	A	0	3	9	7	3	4	0	1	0	4	0	0	0	0	0	0	0	1	0	0	1.4	9.1	
26-Jul-07			0	0	0	0	A	5	17	18	11	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	2.6	17.7	
27-Jul-07			0	0	0	0	A	2	3	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	2.9	
28-Jul-07			0	0	0	0	A	1	3	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	4.0	
29-Jul-07			0	0	0	0	A	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.7	
30-Jul-07			0	0	0	0	A	0	2	2	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.4	1.9	
31-Jul-07			0	0	0	0	A	0	1	1	0	0	1	1	1	0	1	0	1	1	0	0	0	0	0	0	0	0.3	1.0	
Hourly Avg			0.1	0.1	0.1	0.1	N	2.0	4.1	3.3	3.1	5.0	4.0	1.4	1.1	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1				
Hourly Max			0.9	0.9	1.0	1.0	0.0	9.7	17.0	17.7	13.5	55.7	44.2	22.4	15.0	6.7	4.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0				

Station: Beaverlodge
 Station Owner: PASZA

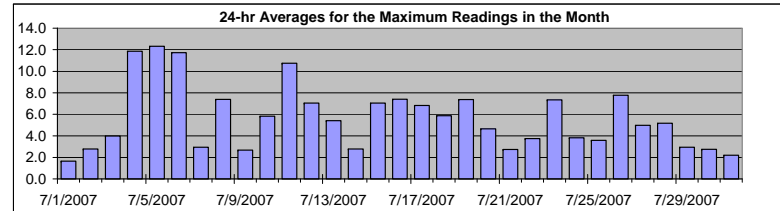
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	153.6	ppb	6-Jul	13:00 14:00
Maximum 24-hr Value:	12.3	ppb	5-Jul	



AIC Time:	0 hrs	Operational Time:	707 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	95.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	35.9	14.4	5.9	3.4	2.0	1.0	0.9	5.7 ppb	3.4 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	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-Jul-07	1	1	0	1	A	7	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	6	1.7	6.9	
2-Jul-07	5	4	4	5	A	5	6	5	2	1	1	1	1	1	1	1	2	2	2	2	1	5	3	4	2.8	5.9	
3-Jul-07	3	5	5	5	A	9	10	11	5	3	2	2	1	2	2	2	2	5	3	4	3	4	4	2	4.0	10.5	
4-Jul-07	2	3	3	4	A	6	7	13	19	6	5	2	7	138	36	1	1	2	2	3	3	6	3	3	11.9	137.9	
5-Jul-07	3	3	4	7	A	20	21	14	27	3	2	2	1	2	127	2	2	2	8	9	8	4	8	6	12.3	126.9	
6-Jul-07	6	5	9	5	A	18	9	5	5	4	5	1	1	154	2	2	4	2	2	6	10	8	6	3	11.7	153.6	
7-Jul-07	2	5	5	2	A	3	22	5	2	1	1	1	1	1	1	1	1	1	1	1	4	3	3	2	2.9	21.9	
8-Jul-07	3	2	3	2	A	24	26	11	7	8	9	15	6	3	3	2	3	2	4	6	5	11	8	7	7.4	26.0	
9-Jul-07	5	4	2	2	A	2	3	3	2	2	2	2	2	2	1	1	2	2	4	4	3	3	3	7	2.7	6.9	
10-Jul-07	3	4	6	6	A	4	10	3	3	26	24	2	2	3	2	4	3	3	4	5	9	4	3	2	5.8	26.5	
11-Jul-07	2	3	2	5	A	5	7	4	13	42	131	2	2	1	2	2	1	2	2	1	7	6	3	3	10.7	131.0	
12-Jul-07	4	4	3	3	A	8	8	11	16	12	38	1	1	1	30	2	1	1	1	4	3	3	6	3	7.0	38.0	
13-Jul-07	5	5	7	4	A	15	12	16	9	6	6	C	C	C	A	0	1	2	3	3	2	2	2	3	5.4	16.0	
14-Jul-07	3	4	3	3	A	6	4	9	5	2	2	2	2	1	1	1	2	1	1	1	2	3	5	4	2.8	8.9	
15-Jul-07	10	4	12	12	A	18	11	7	6	5	4	5	12	8	4	3	2	5	6	10	4	4	6	5	7.0	18.3	
16-Jul-07	6	6	5	7	A	15	14	39	8	3	3	2	2	13	2	3	1	3	3	7	7	9	6	7	7.4	39.0	
17-Jul-07	8	5	5	5	A	6	24	9	35	5	6	6	4	3	3	3	3	3	5	4	3	5	5	5	6.8	34.8	
18-Jul-07	6	7	9	9	A	5	5	10	4	5	4	3	4	4	3	4	4	5	11	8	6	6	9	6	5.9	10.9	
19-Jul-07	9	8	7	6	A	6	9	11	12	9	17	6	16	8	6	6	3	4	5	4	4	4	6	4	7.4	17.3	
20-Jul-07	5	7	5	9	A	9	11	5	4	3	2	2	2	5	2	2	2	2	3	2	6	4	6	10	4.6	10.9	
21-Jul-07	5	4	3	2	A	4	5	2	2	1	2	1	1	1	1	2	2	2	3	4	3	5	5	5	2.7	5.0	
22-Jul-07	3	6	4	3	A	5	6	4	4	3	2	2	1	1	2	1	1	2	1	3	3	4	11	15	3.7	15.0	
23-Jul-07	5	3	10	10	A	11	12	11	16	9	6	5	3	3	4	4	5	7	2	6	11	12	10	5	7.3	15.9	
24-Jul-07	2	5	2	1	A	8	8	5	5	2	2	17	2	A	A	2	2	1	2	2	3	4	3	3	3.8	17.0	
25-Jul-07	3	2	3	2	A	3	9	10	5	3	1	1	4	1	4	1	2	1	1	2	5	13	4	4	3.6	13.0	
26-Jul-07	4	3	4	6	A	13	27	27	18	10	9	8	7	4	4	3	2	2	3	7	6	5	4	4	7.8	27.0	
27-Jul-07	4	4	5	4	A	15	14	7	10	5	3	3	2	2	2	1	2	2	3	5	11	5	4	3	5.0	14.7	
28-Jul-07	4	7	13	7	A	7	13	13	9	6	3	3	2	2	2	2	1	3	3	3	6	5	3	4	5.2	13.0	
29-Jul-07	6	4	3	4	A	4	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	5	6	5	2.9	6.0	
30-Jul-07	3	2	2	3	A	6	9	4	9	2	1	2	1	3	1	2	1	2	2	1	2	2	1	3	2.8	8.9	
31-Jul-07	2	2	2	2	A	4	4	3	1	1	2	2	1	1	2	2	2	2	2	2	4	6	2	1	2.2	5.9	
Hourly Avg	4.2	4.2	4.8	4.7	N	8.7	10.7	9.0	8.5	6.1	9.6	3.4	3.1	12.8	8.7	2.0	2.0	2.4	2.9	3.9	4.8	5.0	4.8	4.7			
Hourly Max	9.9	8.0	13.0	12.0	0.0	23.7	26.6	39.0	34.8	42.0	131.0	17.0	15.9	153.6	126.9	6.0	5.0	7.0	10.9	10.0	10.9	13.0	11.0	15.0			

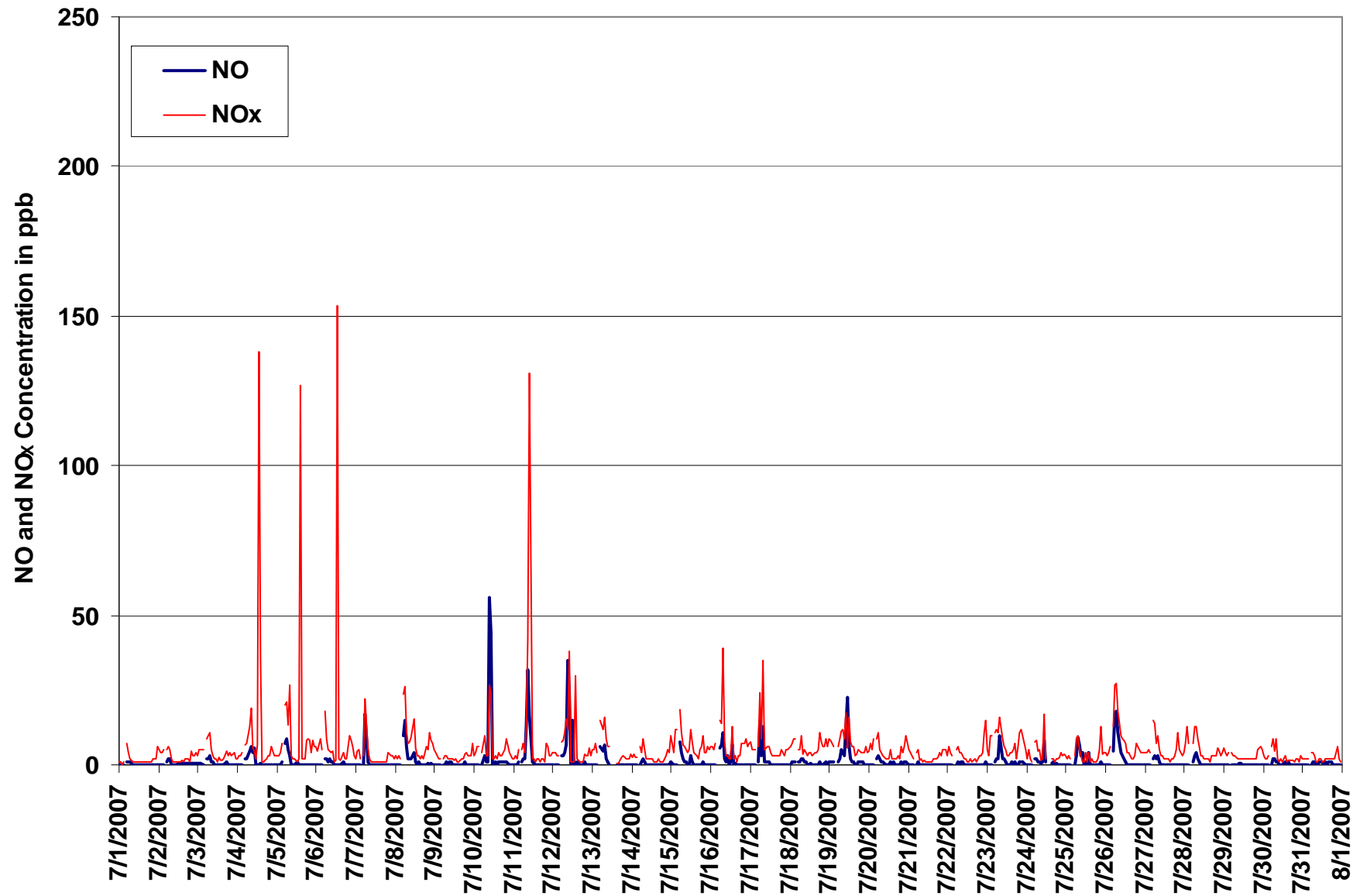


Figure 39. PASZA - Beaverlodge Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Beaverlodge Ozone Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

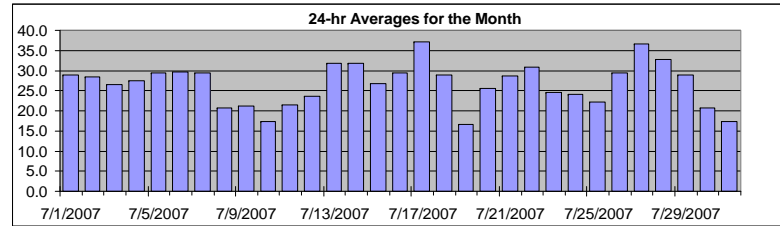
HOURLY AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	56.8	ppb	17-Jul	12:00 13:00
Maximum 24-hr Average:	37.0	ppb	17-Jul	



AIC Time:	31 hrs	Operational Time:	711 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	51.6	41.6	32.0	26.3	20.3	13.4	9.3	26.7 ppb	26.3 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-Jul-07	25	26	26	25	A	18	21	26	29	30	30	30	31	32	33	34	34	34	33	32	31	29	27	26	28.8	34.0
2-Jul-07	24	23	21	18	A	17	15	21	29	30	31	33	34	34	34	33	33	34	35	35	31	31	29	28	28.4	35.4
3-Jul-07	28	20	21	22	A	14	18	20	20	26	30	32	32	32	32	31	30	29	31	33	30	27	26	26	26.5	32.5
4-Jul-07	25	23	21	16	A	14	14	18	21	26	29	30	31	32	34	35	36	35	36	33	29	30	32	29	27.5	36.4
5-Jul-07	28	26	25	20	A	5	9	19	27	30	30	32	35	36	37	37	36	36	37	34	39	40	27	27	29.3	40.3
6-Jul-07	26	30	27	30	A	26	24	22	24	29	31	35	36	36	34	34	33	35	33	30	28	26	25	26	29.6	36.2
7-Jul-07	27	27	26	24	A	24	23	25	27	29	30	31	32	33	34	34	34	35	34	33	32	30	26	25	29.4	35.1
8-Jul-07	24	23	21	22	A	16	8	9	14	17	19	18	26	25	26	30	30	30	26	22	22	17	17	18	20.8	30.4
9-Jul-07	15	16	17	18	A	22	21	20	20	21	21	24	25	26	26	27	28	27	24	20	19	17	18	16	21.2	27.8
10-Jul-07	16	13	12	13	A	15	14	18	20	22	21	21	19	18	18	18	19	21	20	17	15	15	16	16	17.2	21.5
11-Jul-07	17	16	15	13	A	11	13	18	24	24	25	24	24	25	26	26	26	26	26	26	24	20	21	21	21.4	26.5
12-Jul-07	18	15	15	14	A	13	13	18	23	28	23	27	28	27	27	28	29	29	29	29	26	27	29	29	23.6	29.5
13-Jul-07	27	23	24	22	A	16	18	20	32	42	52	53	45	38	35	32	C	C	36	32	31	29	29	31	31.8	53.4
14-Jul-07	29	26	30	31	A	28	26	27	33	36	36	35	36	37	37	38	38	37	35	32	30	28	25	23	31.7	38.3
15-Jul-07	17	21	17	14	A	23	14	19	27	34	35	31	30	30	32	31	34	34	25	17	32	36	31	29	26.7	36.1
16-Jul-07	24	26	27	22	A	12	11	19	24	28	31	35	38	39	40	39	39	42	42	37	32	28	23	20	29.5	42.0
17-Jul-07	21	25	27	22	A	18	13	20	26	35	44	52	57	56	55	49	47	49	47	40	38	41	38	32	37.0	56.8
18-Jul-07	27	27	25	19	A	26	24	24	27	31	36	36	36	40	41	41	40	38	30	24	20	18	17	17	28.9	41.4
19-Jul-07	14	10	11	13	A	11	9	8	10	13	14	12	15	20	20	21	22	23	23	20	22	21	25	23	16.5	24.6
20-Jul-07	24	20	19	20	A	16	16	21	21	25	29	30	31	32	31	31	32	32	30	30	26	27	24	23	25.6	31.9
21-Jul-07	23	21	24	26	A	24	22	27	27	28	27	27	27	28	29	31	33	33	37	37	37	34	29	30	28.6	37.1
22-Jul-07	33	26	30	30	A	24	23	25	32	35	37	32	31	32	31	36	38	38	36	33	31	30	26	24	30.9	38.2
23-Jul-07	29	31	20	17	A	12	13	11	18	21	26	31	32	30	30	31	31	31	43	33	33	26	17	16	24.6	43.3
24-Jul-07	23	22	23	21	A	17	20	23	24	27	31	30	27	26	26	27	26	26	26	25	24	22	20	19	24.2	30.6
25-Jul-07	18	16	19	17	A	17	14	18	23	24	25	25	26	26	26	26	27	27	26	25	24	19	20	20	22.2	26.7
26-Jul-07	19	19	17	16	A	11	7	5	10	17	25	35	45	52	52	47	43	39	39	36	41	42	33	28	29.4	52.0
27-Jul-07	28	29	26	25	A	12	13	20	22	31	38	41	45	46	48	49	50	50	51	47	42	41	43	45	36.5	50.7
28-Jul-07	42	41	28	29	A	10	12	13	22	30	36	39	42	41	41	41	41	42	42	38	34	33	29	27	32.9	42.4
29-Jul-07	27	24	28	22	A	18	24	28	29	31	34	36	38	38	39	38	35	29	28	28	30	26	20	15	29.0	38.8
30-Jul-07	18	18	19	18	A	17	14	18	19	20	22	22	23	23	22	22	22	22	23	24	22	23	24	20	20.7	23.7
31-Jul-07	20	21	20	19	A	16	16	18	19	19	19	19	19	18	18	17	17	17	17	16	15	13	14	13	17.3	20.7
Hourly Avg	23.7	22.8	21.8	20.7	N	16.9	16.2	19.3	23.2	27.1	29.5	30.9	32.1	32.5	32.7	32.7	32.8	32.7	32.3	29.6	28.5	27.0	25.1	24.0		
Hourly Max	42.4	41.1	29.8	30.5	0.0	27.9	26.0	27.7	32.7	42.0	52.3	53.4	56.8	56.3	54.6	48.8	50.0	50.1	50.7	46.9	41.7	41.6	43.1	44.8		

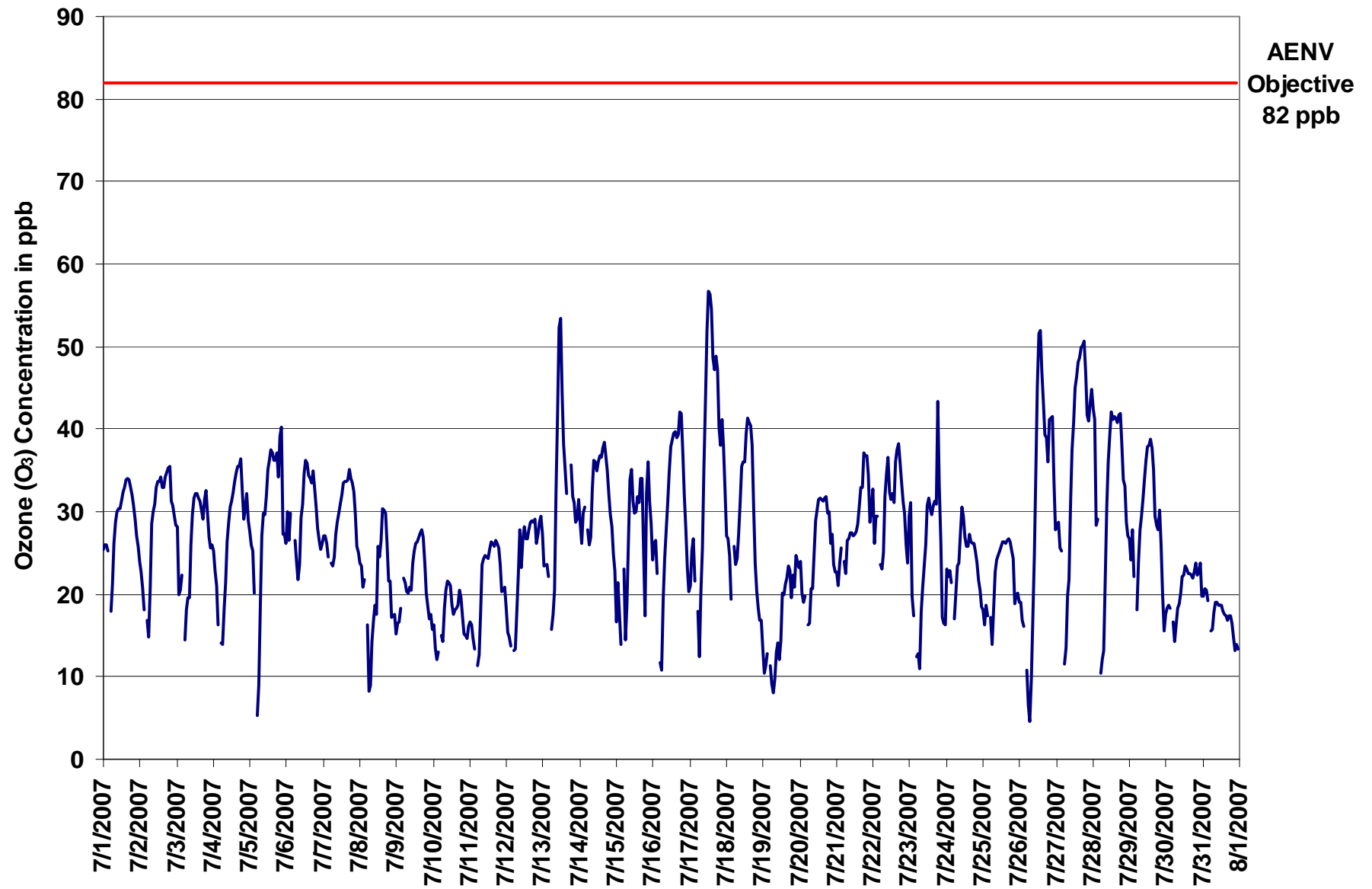


Figure 40. PASZA - Beaverlodge Ozone 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

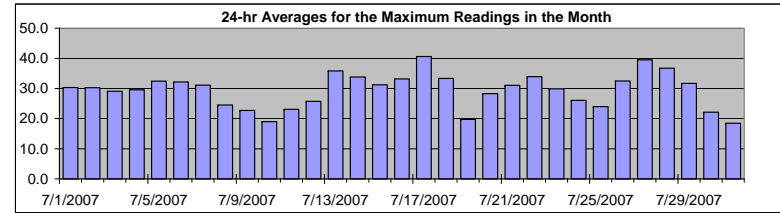
Ozone (O₃)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	61.1	ppb	13-Jul	11:00 12:00
Maximum 24-hr Value:	40.6	ppb	17-Jul	

AIC Time:	31 hrs	Operational Time:	711 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	55.7	44.5	34.7	28.7	23.2	16.6	13.7	29.4 ppb	28.7 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	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00		
1-Jul-07	26	26	27	26	A	20	24	28	30	31	31	31	33	34	35	36	36	35	34	33	32	30	28	29	30.3	36.4
2-Jul-07	26	25	25	20	A	18	16	27	31	31	33	34	35	36	36	35	34	35	37	37	34	32	30	29	30.3	36.9
3-Jul-07	29	28	25	24	A	19	26	22	22	29	31	34	34	34	33	32	31	31	33	35	31	29	27	28	29.1	35.3
4-Jul-07	27	25	24	18	A	17	18	21	26	28	30	31	32	34	35	36	37	37	38	36	31	34	34	31	29.6	37.9
5-Jul-07	28	27	26	27	A	8	14	25	29	31	31	35	37	38	39	39	38	41	39	44	44	36	31	32.4	43.7	
6-Jul-07	28	32	30	33	A	33	31	24	26	33	33	37	38	38	36	36	35	37	34	33	30	30	27	27	32.2	37.9
7-Jul-07	28	30	28	27	A	25	25	27	29	30	31	32	33	35	35	35	35	37	36	35	34	33	28	26	31.1	36.8
8-Jul-07	25	24	22	23	A	22	20	14	19	20	22	24	28	26	29	32	32	31	30	25	25	24	21	24.5	32.3	
9-Jul-07	17	17	17	20	A	23	23	22	22	22	22	25	26	28	28	29	29	28	26	21	20	18	19	18	22.7	28.9
10-Jul-07	18	16	14	15	A	17	18	20	22	22	22	22	20	19	19	19	20	22	21	19	19	16	16	18	19.0	22.4
11-Jul-07	18	17	16	17	A	15	16	21	25	26	26	26	25	26	28	27	27	27	27	27	21	21	22	23.1	27.8	
12-Jul-07	21	17	16	15	A	15	17	20	25	30	28	29	30	28	28	31	30	31	31	31	30	29	30	30	25.7	31.5
13-Jul-07	29	26	25	25	A	21	23	27	38	47	56	61	59	41	37	36	C	C	37	34	32	30	32	34	35.8	61.1
14-Jul-07	32	28	31	32	A	30	28	30	36	38	38	37	38	38	38	39	40	39	38	34	31	30	27	27	33.8	39.5
15-Jul-07	27	28	23	18	A	27	23	22	33	37	37	35	32	33	33	33	37	37	31	24	40	39	36	34	31.2	40.1
16-Jul-07	30	32	32	29	A	19	16	23	27	30	33	39	40	41	41	40	41	45	44	41	37	31	28	23	33.1	44.7
17-Jul-07	24	27	29	29	A	22	19	25	28	41	46	57	59	58	58	52	49	52	50	44	42	43	42	37	40.6	58.9
18-Jul-07	33	34	36	24	A	30	26	27	31	36	40	39	38	42	43	43	44	45	36	28	26	23	24	22	33.3	44.6
19-Jul-07	17	14	16	16	A	15	12	10	14	15	19	14	17	24	23	27	24	26	26	21	27	25	27	26	19.8	27.4
20-Jul-07	26	25	21	23	A	20	20	23	24	28	31	32	33	33	33	32	33	34	36	33	29	30	28	25	28.3	35.5
21-Jul-07	28	23	25	27	A	27	27	28	28	29	29	28	28	29	31	33	35	36	40	40	41	37	32	34	31.1	41.3
22-Jul-07	34	33	35	31	A	27	27	29	34	37	38	37	33	34	32	38	40	41	39	35	33	31	31	30	33.9	40.7
23-Jul-07	33	33	31	22	A	19	17	13	23	25	29	33	34	32	32	32	35	48	48	41	36	28	23	21	29.9	48.3
24-Jul-07	27	25	25	23	A	20	25	27	26	31	32	31	29	27	27	28	27	27	27	27	25	24	22	20	26.1	31.9
25-Jul-07	20	17	21	21	A	20	19	22	24	25	26	27	27	27	27	27	27	27	27	26	25	21	21	20	24.0	27.4
26-Jul-07	20	20	19	17	A	14	11	8	12	20	30	42	50	56	54	50	46	41	42	40	44	45	36	29	32.5	55.9
27-Jul-07	29	30	31	28	A	15	19	27	28	35	40	43	46	48	49	50	51	51	52	52	48	43	45	46	39.5	52.0
28-Jul-07	47	45	38	38	A	18	16	18	26	35	38	41	43	43	43	43	42	46	44	42	38	36	36	28	36.7	46.5
29-Jul-07	29	29	32	31	A	19	25	30	32	34	35	38	39	39	40	39	38	32	29	29	33	29	27	20	31.7	39.8
30-Jul-07	19	19	21	20	A	19	17	20	20	22	24	23	24	24	23	23	23	23	24	25	24	24	24	24	22.2	24.9
31-Jul-07	21	21	21	20	A	17	18	20	20	20	20	19	20	19	18	18	18	20	20	17	16	15	15	14	18.5	21.2
Hourly Avg	26.3	25.7	25.3	23.9	N	20.3	20.5	22.6	26.2	29.6	31.6	33.4	34.2	34.2	34.3	34.6	34.5	35.3	34.8	32.6	31.8	30.0	28.3	26.7		
Hourly Max	46.5	45.0	37.9	38.4	0.0	32.9	30.9	30.4	37.8	46.9	56.2	61.1	59.3	57.9	58.4	51.9	51.0	51.6	52.0	51.9	48.2	44.5	44.6	45.7		

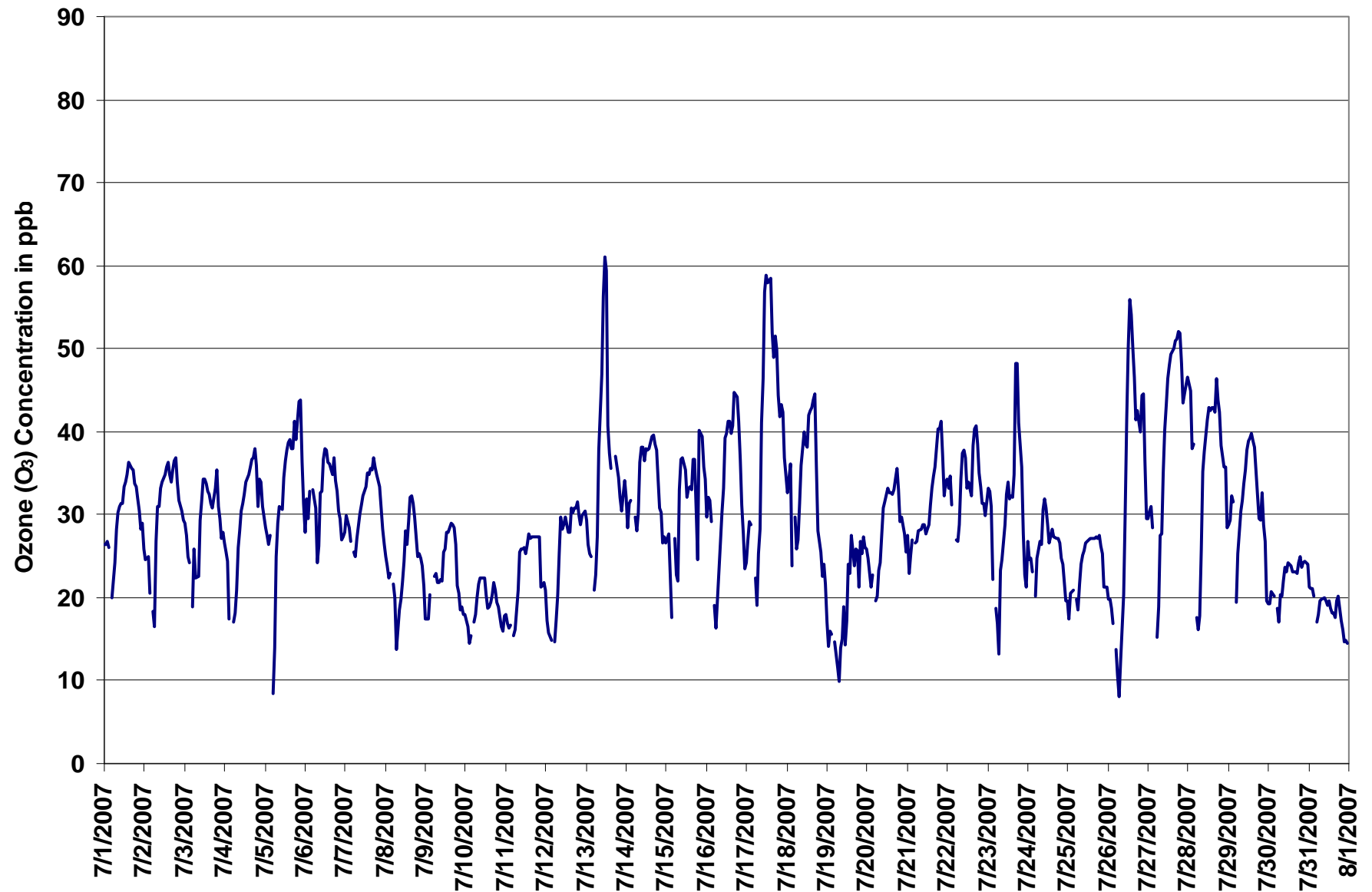
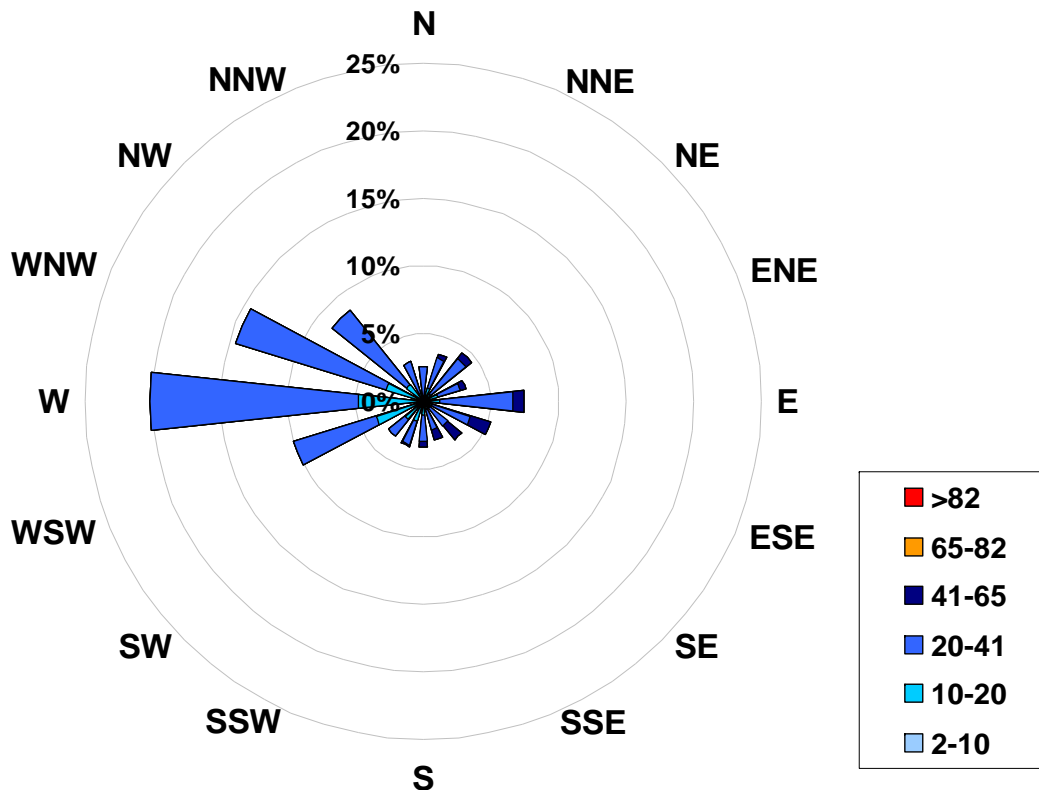


Figure 41. PASZA - Beaverlodge Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	<	10	10
10	to	20	158
20	to	41	499
41	to	65	44
65	to	82	0
	>	82	0
Total Non-Zero Values			711

PASZA - Beaverlodge Ozone Eight Hour Average Summary

Station: Beaverlodge
 Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

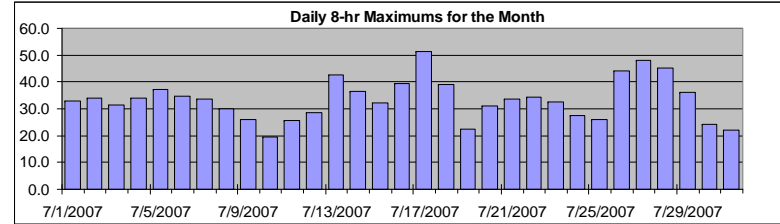
Ozone (O₃)

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Number of 8-hr Exceedances:	0		
Maximum 8-hr Average:	51.4 ppb	17-Jul	18:00 19:00

Percentile	99	95	75	50	25	5	1
	47.4	39.3	31.1	26.0	21.1	15.7	12.0



Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Daily Maximum	
1-Jul-07	26	26	26	26	26	25	24	24	24	25	26	26	27	29	30	31	32	32	33	33	33	32	32	31	32.9	
2-Jul-07	29	28	26	25	24	22	20	20	20	21	23	25	26	28	31	32	33	33	34	34	34	34	33	33	32	34.0
3-Jul-07	32	30	28	26	26	23	22	20	19	20	21	23	24	26	28	29	31	31	31	31	31	30	30	29	31.6	
4-Jul-07	28	28	26	24	23	22	20	19	18	19	20	22	23	25	28	30	32	33	34	34	34	34	33	33	33	34.0
5-Jul-07	32	30	29	27	27	24	20	19	19	19	20	22	23	27	31	33	34	35	36	36	37	37	36	35	37.2	
6-Jul-07	33	33	31	31	30	28	27	26	26	26	27	27	28	30	31	32	34	34	35	34	33	32	31	30	34.5	
7-Jul-07	29	28	27	26	26	26	25	25	25	26	26	27	28	29	30	31	32	33	33	34	34	33	32	31	33.7	
8-Jul-07	30	28	27	25	24	22	20	18	16	15	15	14	16	17	19	22	24	25	26	27	26	25	24	23	29.9	
9-Jul-07	21	19	18	18	17	18	18	19	19	20	20	21	22	22	23	24	25	26	26	25	25	23	22	21	25.9	
10-Jul-07	19	18	16	15	15	15	14	15	15	16	18	19	19	19	20	20	19	19	19	19	19	18	18	17	17	19.7
11-Jul-07	17	16	16	15	15	15	14	15	16	17	18	20	20	22	24	25	25	25	26	26	26	25	24	24	25.8	
12-Jul-07	23	21	20	18	18	17	16	15	16	18	19	21	22	23	25	26	27	27	28	28	28	28	28	28	28	28.4
13-Jul-07	28	28	27	26	26	24	23	21	22	25	29	33	35	38	40	41	43	N	N	N	N	N	N	N	42.5	
14-Jul-07	31	30	30	29	29	29	29	28	29	30	31	32	32	33	35	36	37	37	36	36	35	34	33	31	36.6	
15-Jul-07	28	26	24	22	21	20	19	18	19	21	24	26	27	27	30	31	32	32	31	29	30	30	30	30	32.2	
16-Jul-07	29	28	28	28	28	24	21	20	20	20	21	23	25	28	32	34	36	38	39	40	39	37	35	33	39.5	
17-Jul-07	31	29	27	25	24	22	21	21	21	23	25	30	33	38	43	47	49	51	51	50	48	46	44	42	51.4	
18-Jul-07	39	36	34	31	30	28	26	25	25	25	27	29	30	32	34	36	38	38	38	36	34	32	29	26	39.1	
19-Jul-07	22	19	16	15	14	13	12	11	10	11	11	11	12	13	14	16	17	18	20	20	21	22	22	22	22.3	
20-Jul-07	23	22	22	22	22	21	20	19	19	20	21	23	24	26	27	29	30	31	31	31	30	30	29	28	31.1	
21-Jul-07	27	25	25	24	24	23	23	24	24	25	26	26	26	27	27	28	29	29	31	32	33	34	34	34	33.8	
22-Jul-07	34	33	32	31	30	29	28	27	27	28	29	30	31	32	33	34	34	34	34	34	34	34	34	32	34.5	
23-Jul-07	31	30	28	26	25	23	21	19	17	16	17	19	20	23	25	27	29	30	32	33	32	30	29	27	32.6	
24-Jul-07	26	25	22	21	20	20	20	21	22	22	23	25	25	26	27	27	27	27	27	27	26	26	25	24	27.5	
25-Jul-07	23	21	20	19	19	18	17	17	18	19	20	21	21	23	24	25	26	26	26	26	26	25	24	24	26.2	
26-Jul-07	23	22	20	19	19	17	15	13	12	12	13	15	19	24	30	35	39	42	44	44	44	42	40	38	44.2	
27-Jul-07	36	34	33	31	30	26	23	22	21	21	23	25	28	32	36	40	43	46	47	48	48	47	47	46	48.2	
28-Jul-07	45	44	41	39	39	34	30	25	22	21	22	23	26	30	33	37	39	40	41	41	40	39	37	36	45.1	
29-Jul-07	34	32	30	28	27	25	24	24	25	26	27	29	30	32	34	35	36	36	35	34	33	32	29	27	36.1	
30-Jul-07	24	23	22	21	19	18	17	17	18	18	18	19	20	20	21	22	22	23	23	23	23	23	23	22	24.4	
31-Jul-07	22	22	22	21	21	20	19	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16	16	15	22.1	

Hourly Max 45.1 43.9 41.1 38.9 38.5 34.2 29.7 28.0 28.6 30.0 30.9 33.4 34.8 37.7 43.0 46.6 49.3 51.0 51.4 50.0 47.8 47.2 46.5 46.0

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

Station: Beaverlodge
 Station Owner: PASZA

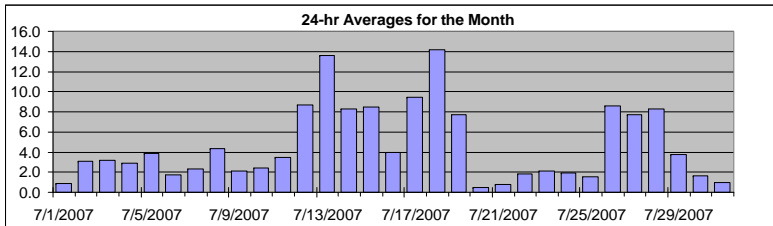
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	40.0 µg/m ³ 13-Jul 7:00 8:00
Maximum 24-hr Value:	14.2 µg/m ³ 18-Jul



AIC Time:	0 hrs	Operational Time:	718 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	96.5%
Percentile	99	95	75
	23.8	15.2	6.9
		50	3.0
		25	1.0
		5	0.0
		1	0.0
	Average / Median		4.7
	Geomean		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	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00
1-Jul-07	0	0	0	0	0	0	1	0	0	0	0	0	D	0	0	0	1	1	1	2	1	4	4	5	0.9	5.4	
2-Jul-07	7	5	4	3	3	3	4	2	0	D	0	0	3	5	2	3	2	1	2	3	3	3	6	5	3.0	6.9	
3-Jul-07	5	6	5	8	8	5	4	4	5	0	4	0	0	0	0	1	2	1	1	1	1	6	7	3	3.2	8.2	
4-Jul-07	3	3	4	3	2	4	4	4	2	0	2	0	1	0	0	0	0	2	2	6	6	16	2	4	2.9	15.8	
5-Jul-07	4	3	4	2	5	8	10	10	8	6	6	2	0	0	0	2	2	4	3	0	4	5	4	2	3.9	10.0	
6-Jul-07	2	2	3	1	2	2	2	3	1	D	0	0	2	0	0	2	1	0	3	2	2	3	3	4	1.8	3.7	
7-Jul-07	5	4	2	1	2	1	3	3	0	3	D	0	0	2	0	2	2	1	2	2	3	5	6	5	2.3	6.5	
8-Jul-07	5	5	6	6	4	6	8	8	7	6	8	3	4	2	1	0	2	4	2	4	3	4	2	4	4.3	8.4	
9-Jul-07	3	3	3	3	1	3	4	4	0	3	3	2	1	0	0	4	0	5	1	0	0	3	2	3	2.1	4.6	
10-Jul-07	2	3	3	2	2	3	6	2	0	1	4	1	0	0	4	3	2	1	2	2	5	5	3	3	2.4	6.0	
11-Jul-07	3	4	3	2	4	4	3	5	2	1	3	0	2	2	0	1	1	1	3	4	5	12	9	7	3.5	11.5	
12-Jul-07	6	6	7	7	7	9	21	31	25	19	6	5	0	1	1	0	0	0	2	3	16	16	9	10	8.6	30.7	
13-Jul-07	11	29	9	9	8	11	14	40	19	24	12	9	10	9	5	2	3	11	11	24	16	15	13	10	13.6	40.0	
14-Jul-07	27	10	2	2	4	4	8	12	8	3	16	7	0	3	3	6	7	9	7	10	14	11	11	12	8.2	27.0	
15-Jul-07	10	7	5	8	8	7	9	13	11	6	11	13	15	13	11	5	5	10	14	12	D	0	0	0	8.5	15.1	
16-Jul-07	0	2	2	1	1	2	5	3	0	3	2	0	D	1	0	2	2	10	10	8	7	10	11	6	3.9	11.2	
17-Jul-07	5	4	4	4	4	7	8	12	16	4	2	10	9	11	14	12	14	16	12	16	18	8	7	8	9.4	17.8	
18-Jul-07	8	3	14	13	7	7	11	14	15	12	14	14	17	15	17	18	16	20	22	19	16	16	21	11	14.2	22.3	
19-Jul-07	12	7	4	6	7	9	11	14	10	3	10	15	14	11	14	D	3	D	2	1	D	0	D	1	7.7	15.4	
20-Jul-07	0	0	0	D	0	0	0	0	0	0	0	0	D	D	0	0	0	1	1	2	0	0	4	D	0.4	3.5	
21-Jul-07	2	2	0	0	0	1	0	0	0	0	D	0	0	0	0	0	0	2	0	1	2	3	4	1	0.8	4.2	
22-Jul-07	1	2	1	0	2	1	3	1	D	5	5	0	2	1	1	0	0	1	2	2	3	2	2	4	1.9	5.2	
23-Jul-07	0	1	6	3	2	3	2	5	0	2	1	0	5	5	3	2	2	D	D	2	1	1	0	0	2.1	5.9	
24-Jul-07	0	0	0	0	0	1	0	0	2	D	0	0	11	3	0	0	9	4	0	2	2	4	3	2	1.9	11.2	
25-Jul-07	2	0	0	0	1	2	4	1	0	0	0	0	0	3	2	0	0	0	0	2	0	8	6	6	1.5	8.1	
26-Jul-07	5	2	4	2	3	2	7	8	13	7	8	5	9	7	7	8	1	3	16	36	19	11	13	11	8.6	35.8	
27-Jul-07	8	8	5	3	4	6	10	11	11	4	10	6	6	4	0	4	7	7	10	12	13	18	9	10	7.7	17.7	
28-Jul-07	9	11	11	11	11	10	8	12	3	8	6	6	5	6	9	9	3	10	6	13	15	7	8	4	8.3	14.9	
29-Jul-07	2	7	1	8	8	5	3	3	3	6	7	4	3	3	3	0	5	D	2	0	D	3	4	0	3.7	8.1	
30-Jul-07	D	D	D	0	0	0	4	D	0	0	D	10	0	0	0	0	0	1	1	2	7	2	1	2	1.6	10.3	
31-Jul-07	0	0	0	0	0	0	1	1	0	0	0	2	3	1	0	1	3	3	2	2	1	2	1	1	1.0	3.5	
Hourly Avg	4.9	4.7	3.7	3.6	3.6	4.1	5.7	7.5	5.4	4.5	5.0	3.7	4.3	3.6	3.1	2.9	3.0	4.7	4.8	6.4	6.6	6.6	5.8	4.8			
Hourly Max	27.0	29.1	13.7	12.5	11.4	10.6	20.7	40.0	25.3	24.4	15.8	15.4	17.0	15.5	17.0	18.4	15.8	20.0	22.3	35.8	18.9	17.7	20.9	12.3			

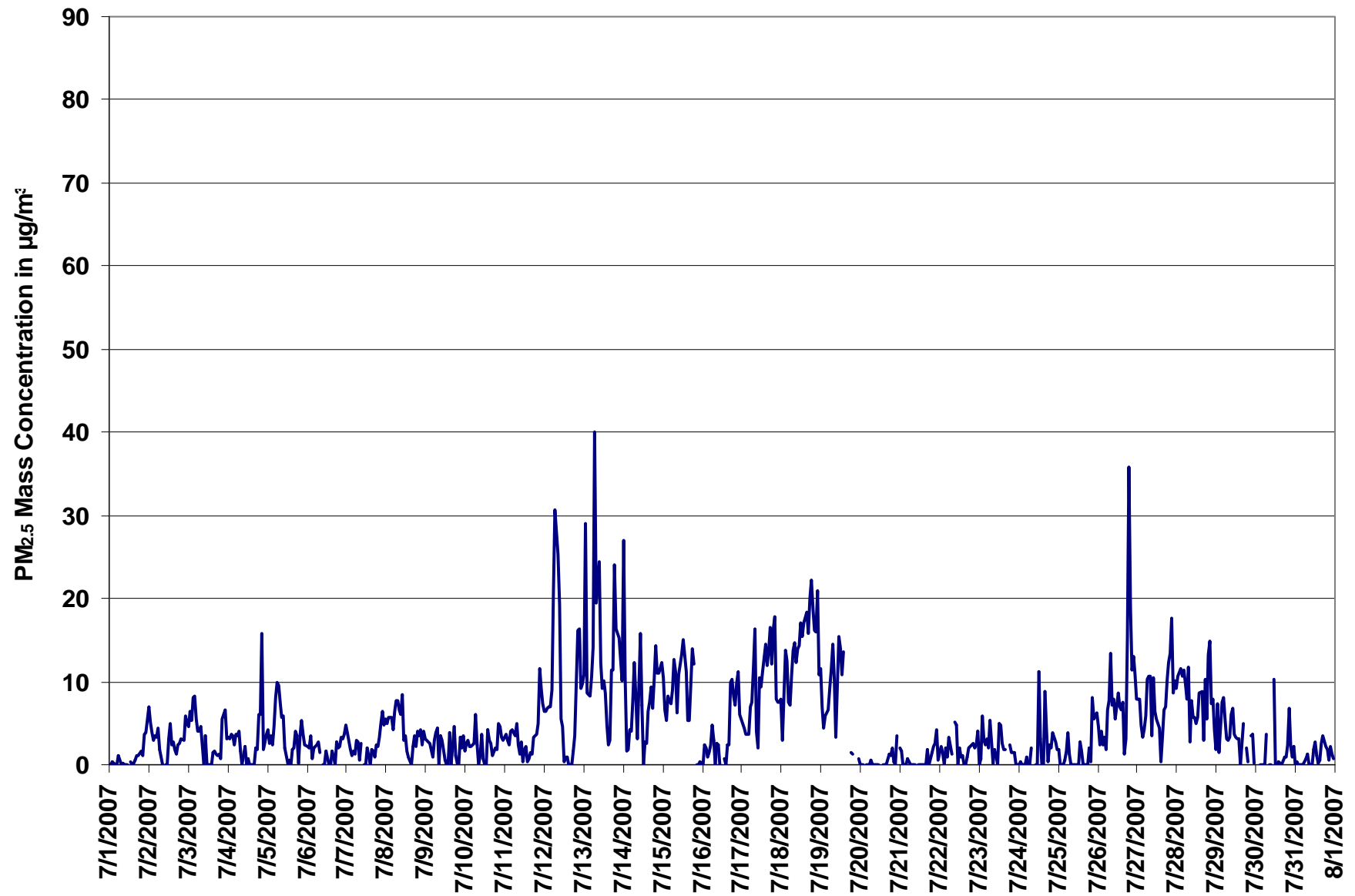


Figure 42. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

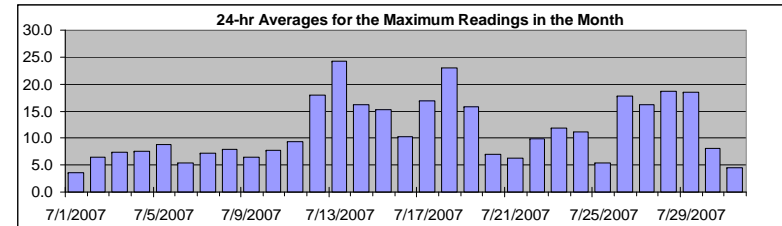
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	76.0	µg/m ³	24-Jul	12:00 13:00
Maximum 24-hr Value:	24.2	µg/m ³	13-Jul	



AIC Time:	0 hrs	Operational Time:	738 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.2%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	53.8	27.8	14.9	8.3	5.5	1.8	0.2	11.4	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

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jul-07	1	2	3	1	2	1	3	2	1	2	2	0	D	6	6	6	4	6	3	5	5	6	6	8	3.6	8.4
2-Jul-07	8	7	5	6	7	5	7	4	4	D	6	3	8	12	9	8	7	4	5	7	7	6	8	7	6.4	11.8
3-Jul-07	6	10	7	10	12	9	8	8	7	6	11	6	1	4	6	7	5	4	7	7	5	17	12	6	7.4	16.6
4-Jul-07	6	6	6	6	5	8	8	8	8	14	12	3	4	5	6	3	4	6	6	9	9	28	6	6	7.6	28.4
5-Jul-07	6	5	5	6	8	11	16	20	15	11	9	7	5	4	5	5	5	8	11	6	10	16	11	5	8.8	19.6
6-Jul-07	4	4	6	2	4	6	7	5	6	0	2	9	12	9	6	10	5	4	6	5	4	6	5	5	5.5	11.6
7-Jul-07	7	7	5	4	4	5	6	5	21	21	-1	3	7	8	8	9	5	5	6	5	6	10	10	8	7.2	21.3
8-Jul-07	7	6	8	8	7	11	13	13	9	9	12	7	6	4	6	5	6	9	5	8	8	9	5	7	7.9	13.3
9-Jul-07	9	5	4	4	3	6	6	6	4	8	6	8	6	5	6	9	9	13	7	8	4	7	5	6	6.5	13.5
10-Jul-07	7	7	5	7	6	5	8	8	6	9	10	5	5	7	21	7	6	8	11	8	8	10	6	6	7.8	21.3
11-Jul-07	6	6	6	8	13	8	9	14	12	10	11	6	6	9	9	5	5	5	9	10	10	19	17	12	9.4	18.9
12-Jul-07	10	11	10	10	9	13	62	54	35	34	14	12	7	6	7	8	9	10	6	28	29	24	12	14	18.0	61.8
13-Jul-07	17	70	12	10	13	14	21	55	35	31	26	17	20	15	15	12	8	25	18	45	31	27	24	20	24.2	70.0
14-Jul-07	54	24	4	6	6	7	16	24	16	18	21	18	9	9	8	16	13	14	13	20	19	18	14	23	16.2	54.0
15-Jul-07	16	10	11	14	17	14	12	17	19	15	19	19	22	22	21	16	21	16	23	26	8	1	5	5	15.4	26.0
16-Jul-07	0	7	5	6	5	13	14	12	7	10	11	8	5	10	7	7	9	22	21	14	11	15	16	10	10.3	22.4
17-Jul-07	10	9	9	8	7	16	12	17	28	19	13	17	17	19	20	17	21	26	26	24	22	22	15	11	16.9	28.2
18-Jul-07	13	11	35	23	12	14	15	20	24	24	27	25	27	21	24	28	26	27	36	27	20	23	31	20	23.0	35.5
19-Jul-07	26	12	9	13	13	13	15	22	21	12	40	40	19	33	25	D	8	0	14	9	D	3	0	3	15.9	40.3
20-Jul-07	2	3	1	0	1	1	6	10	6	4	5	7	4	2	7	10	9	16	25	16	11	4	13	10	7.1	25.2
21-Jul-07	8	9	2	2	2	6	5	4	4	6	5	8	5	7	4	7	8	11	9	9	10	6	10	4	6.3	10.8
22-Jul-07	4	9	16	2	12	4	15	7	4	12	12	7	7	7	29	6	6	16	10	6	10	7	6	24	9.9	28.6
23-Jul-07	14	7	17	8	14	7	10	15	10	12	12	6	13	17	19	9	18	D	D	20	17	9	5	3	11.8	20.3
24-Jul-07	2	2	0	0	1	7	7	3	19	14	5	5	76	11	6	4	56	25	4	4	4	5	5	3	11.2	76.0
25-Jul-07	4	3	1	2	3	5	9	5	2	3	3	2	4	11	8	4	3	2	4	5	9	23	8	8	5.4	22.6
26-Jul-07	8	4	5	4	7	8	12	20	40	14	15	15	14	18	13	24	11	27	27	54	40	14	18	16	17.9	53.8
27-Jul-07	10	16	9	5	8	10	13	20	21	17	34	14	16	15	7	15	16	18	20	31	24	24	12	12	16.2	33.7
28-Jul-07	15	15	16	16	23	16	21	32	12	19	12	19	18	14	22	23	11	19	17	21	32	25	19	8	18.6	32.5
29-Jul-07	5	26	6	28	41	11	10	11	11	17	21	17	25	19	36	12	46	34	7	5	7	30	13	6	18.5	45.7
30-Jul-07	1	0	1	2	2	2	11	12	4	6	2	67	3	3	20	6	5	8	7	7	13	4	4	5	8.1	66.6
31-Jul-07	1	2	1	0	3	3	6	5	3	2	5	6	14	6	3	6	7	8	8	6	4	4	3	3	4.4	13.6
Hourly Avg	9.2	10.1	7.5	7.1	8.8	8.3	12.3	14.7	13.3	12.6	12.3	12.5	12.9	10.9	12.5	10.1	12.0	13.2	12.4	14.7	13.3	13.6	10.4	9.1		
Hourly Max	54.0	70.0	34.6	27.8	41.4	15.9	61.8	54.7	40.3	33.8	40.3	66.6	76.0	32.8	35.8	27.6	55.9	34.4	35.5	53.8	40.1	29.8	30.8	24.4		

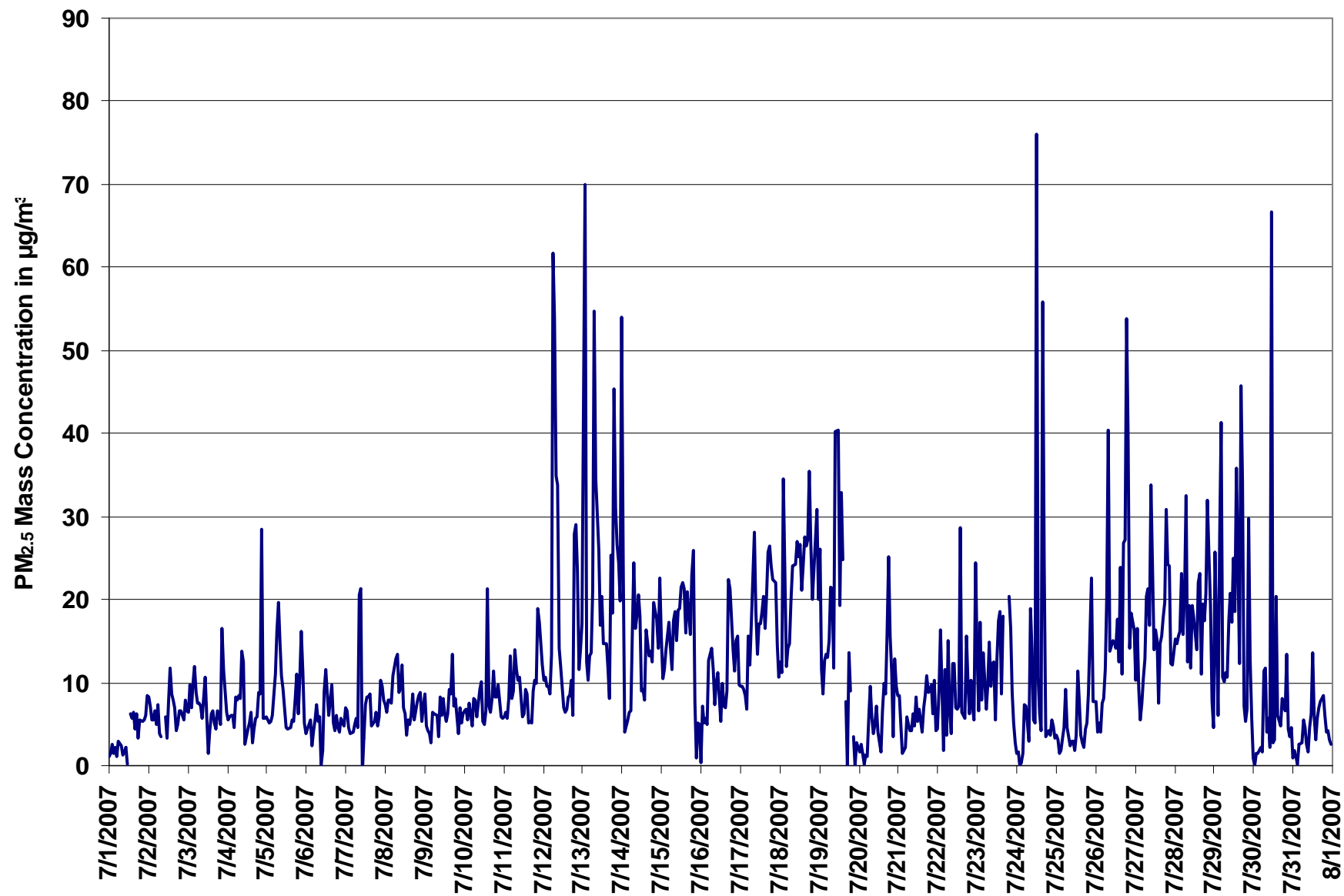
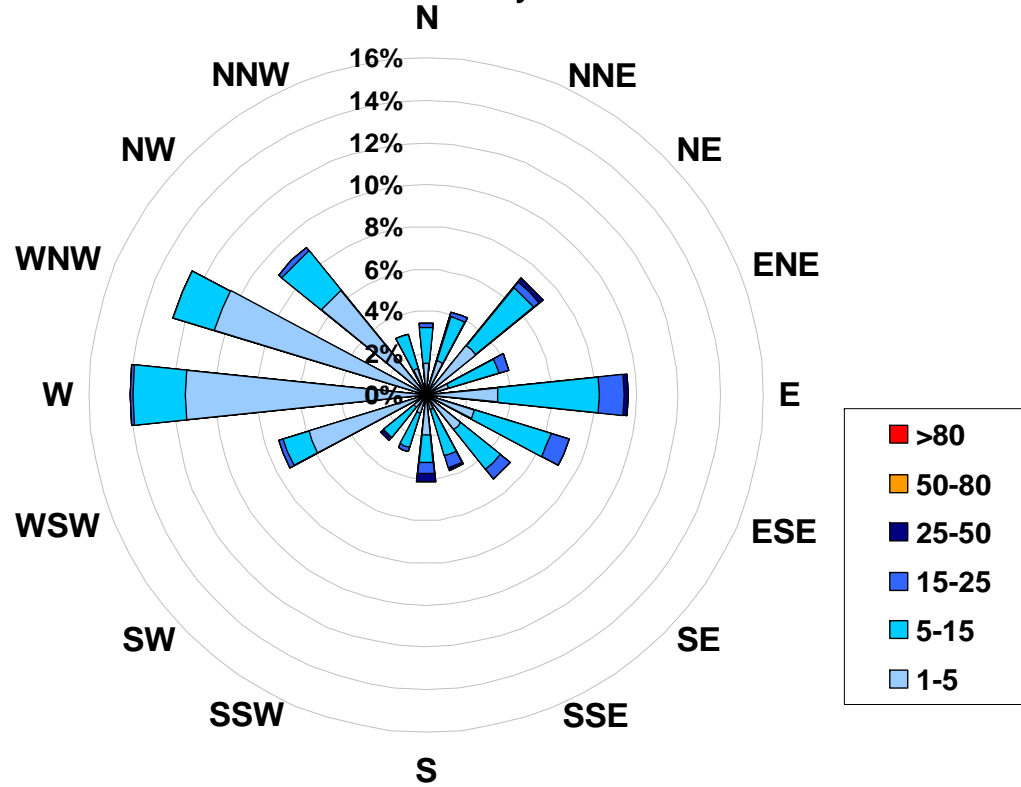


Figure 43. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			Frequency (hrs)
Range			
1.0	< 5		478
5	to 15		203
15	to 25		31
25	to 50		6
50	to 80		0
	> 80		0
Total Non-Zero Values			718

PASZA - Beaverlodge Relative Humidity Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

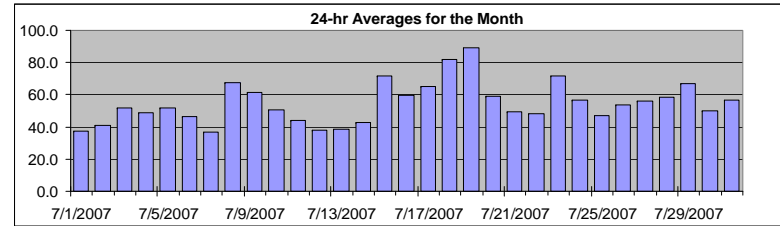
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	96.7	%	19-Jul	5:00 6:00
Maximum 24-hr Value:	88.9	%	19-Jul	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	94.8	87.6	70.4	55.1	37.1	25.0	19.9	54.7 %	55.1 %

Status Flag Characters

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

Day	Mountain Standard Time																								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-Jul-07	51	47	47	51	60	60	53	43	35	31	29	29	27	26	26	24	25	25	26	26	29	38	46	48	37.6	60.1
2-Jul-07	51	56	61	66	67	63	58	49	37	33	32	28	27	27	26	26	27	26	27	28	37	39	42	45	40.7	66.7
3-Jul-07	47	61	61	59	66	73	73	72	73	59	51	43	37	35	35	36	40	40	37	39	44	53	59	58	52.1	73.4
4-Jul-07	60	67	73	81	80	72	65	58	50	43	37	33	31	28	28	27	26	32	32	39	47	56	52	54	48.8	80.9
5-Jul-07	59	60	63	67	76	85	80	63	49	43	40	33	29	26	25	26	27	28	35	37	46	77	85	82	51.7	84.7
6-Jul-07	81	69	70	66	61	61	65	66	58	41	39	34	30	23	23	23	24	24	30	34	39	44	50	54	46.2	80.7
7-Jul-07	53	53	55	61	57	52	45	41	36	32	29	27	25	23	23	22	22	21	22	24	26	35	47	53	36.8	60.7
8-Jul-07	55	55	63	63	61	66	69	70	66	62	64	68	72	71	69	61	63	62	68	72	74	82	86	81	67.6	85.9
9-Jul-07	80	80	75	75	74	76	80	77	76	71	70	61	54	48	48	40	38	38	41	45	51	55	57	60	61.2	80.4
10-Jul-07	61	66	65	66	70	65	58	54	49	44	41	37	37	34	34	40	39	36	37	41	47	58	64	64	50.4	70.5
11-Jul-07	65	67	71	72	69	71	60	51	38	35	34	33	31	30	27	25	25	25	26	25	28	44	50	52	43.9	72.1
12-Jul-07	60	63	64	67	70	64	57	48	43	36	29	27	22	20	20	17	16	15	15	17	26	37	35	35	37.7	69.6
13-Jul-07	42	53	57	64	65	65	60	54	41	38	34	26	23	23	21	19	18	22	25	32	35	35	34	47	38.8	64.8
14-Jul-07	59	61	57	61	62	63	55	48	42	33	31	30	25	23	22	21	22	24	25	29	43	56	65	69	42.8	69.0
15-Jul-07	77	76	79	79	84	67	73	71	63	59	62	69	78	72	63	58	52	57	74	83	72	78	85	87	71.6	87.3
16-Jul-07	89	88	88	89	91	86	79	62	57	51	44	37	30	27	27	27	30	41	52	56	61	67	75	78	59.6	90.6
17-Jul-07	78	80	79	86	87	84	74	67	63	53	46	45	44	46	50	53	53	53	53	58	62	76	88	91	65.3	90.7
18-Jul-07	93	89	85	92	92	88	88	83	78	75	70	69	71	70	65	68	71	75	79	87	93	93	92	94	81.7	94.3
19-Jul-07	95	96	96	96	97	97	97	97	94	86	80	88	87	78	82	87	94	91	90	89	77	80	79	81	88.9	96.7
20-Jul-07	79	81	83	81	82	78	74	69	68	61	53	50	44	36	35	36	34	37	46	45	50	58	67	64	58.8	83.1
21-Jul-07	66	71	68	68	72	69	65	59	58	51	42	38	33	30	30	29	30	30	32	38	44	52	59	59	49.7	71.5
22-Jul-07	61	69	67	67	72	69	67	61	48	44	41	35	32	30	32	29	28	28	32	39	46	49	54	60	48.3	72.2
23-Jul-07	63	63	75	78	80	82	81	80	70	65	55	49	55	60	62	60	58	70	68	80	86	90	93	91	71.4	93.3
24-Jul-07	85	84	83	84	86	80	70	62	56	46	38	36	36	38	39	35	36	38	40	43	49	58	65	71	56.6	85.5
25-Jul-07	74	77	73	75	78	72	64	58	44	39	37	35	31	29	27	27	27	28	28	28	32	47	51	55	47.3	78.1
26-Jul-07	59	61	68	66	77	80	78	76	67	58	51	45	40	36	31	31	29	28	39	47	51	53	57	66	53.8	79.6
27-Jul-07	66	66	71	73	72	83	80	72	64	57	49	47	38	38	32	34	36	38	41	48	55	64	62	62	56.0	82.5
28-Jul-07	66	68	77	76	82	87	79	75	57	51	41	37	33	37	39	41	35	40	43	50	59	66	80	77	58.2	87.1
29-Jul-07	74	76	75	88	89	92	88	81	74	71	63	59	50	44	38	41	39	51	49	51	54	76	86	90	66.6	91.7
30-Jul-07	83	78	73	73	70	66	63	56	53	47	39	39	33	31	31	31	31	33	34	33	43	50	52	60	50.1	82.7
31-Jul-07	61	62	65	70	68	73	67	57	48	45	47	48	47	44	43	45	48	50	50	49	57	67	70	72	56.4	72.5
Hourly Avg	67.5	69.1	70.6	72.9	74.7	73.7	69.8	63.9	56.6	50.4	45.8	43.1	40.3	38.3	37.2	36.7	36.9	38.9	41.8	45.5	50.5	59.0	64.1	66.4		
Hourly Max	95.2	95.9	96.3	96.4	96.6	96.7	96.7	96.5	93.6	86.1	79.9	87.6	86.7	77.7	82.1	86.6	94.0	91.2	90.0	89.2	92.8	92.9	93.3	94.3		

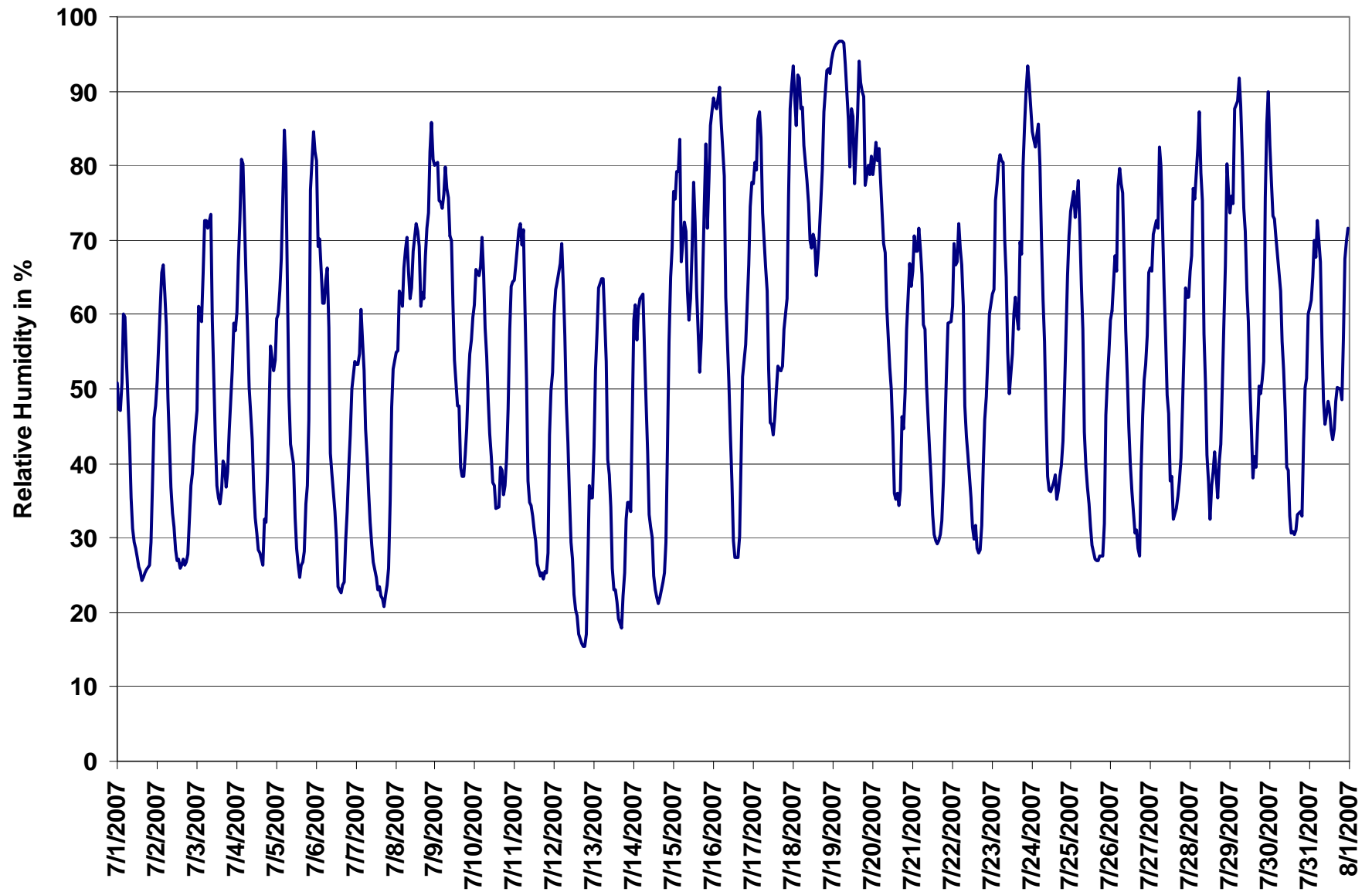


Figure 44. PASZA - Beaverlodge Relative Humidity 1-hr Average Monthly Trend

PASZA - Beaverlodge Temperature Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

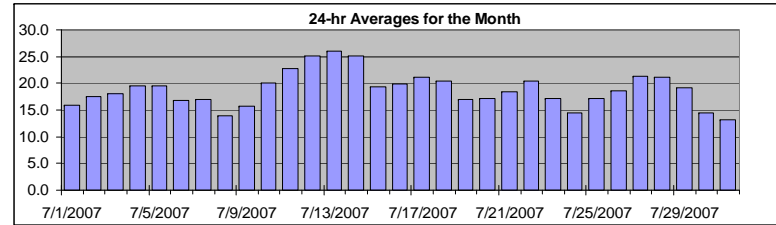
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	34.4	°C	13-Jul	15:00 16:00
Maximum 24-hr Value:	26.0	°C	13-Jul	



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
	32.7	28.2	22.5	18.2	14.8	11.0	8.9	18.8 °C	18.2 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Jul-07	12	13	12	12	9	10	12	14	16	17	18	18	19	20	20	21	21	20	20	20	19	16	13	13	16.0	20.8
2-Jul-07	12	11	10	9	9	10	12	16	19	19	20	21	22	22	23	23	23	23	23	23	20	18	17	17	17.6	23.5
3-Jul-07	16	13	14	14	14	13	14	15	15	18	20	21	22	23	23	23	22	22	22	21	20	17	16	16	18.1	23.3
4-Jul-07	15	13	12	10	11	13	16	18	20	21	22	23	24	25	26	26	26	24	24	23	21	19	19	18	19.6	26.3
5-Jul-07	17	17	16	16	14	13	15	18	21	22	23	25	26	26	27	26	25	24	21	20	18	14	13	13	19.6	26.8
6-Jul-07	13	12	12	12	12	12	13	13	15	18	18	20	22	23	22	23	23	22	20	19	17	16	14	12	16.8	23.0
7-Jul-07	11	11	10	9	10	11	14	16	17	18	20	20	21	21	22	22	22	22	22	21	18	15	14	17.1	22.3	
8-Jul-07	14	14	12	12	12	11	13	13	14	14	15	14	14	15	15	16	16	17	15	15	15	14	12	13	13.9	16.6
9-Jul-07	11	10	11	11	11	12	12	13	13	14	15	16	18	19	19	21	21	21	21	20	18	17	16	16	15.7	21.3
10-Jul-07	15	15	15	14	14	14	17	18	19	21	22	24	24	25	25	24	24	25	25	24	22	19	18	17	20.0	25.4
11-Jul-07	17	16	15	14	15	15	18	20	23	24	24	25	26	27	29	29	29	29	29	30	29	24	22	21	22.9	30.1
12-Jul-07	19	17	16	15	14	16	18	21	23	26	28	30	30	31	32	33	33	32	33	33	30	25	24	24	25.1	32.9
13-Jul-07	22	19	18	16	16	16	18	20	23	26	29	31	32	33	34	34	34	34	33	31	28	27	27	23	26.0	34.4
14-Jul-07	20	19	20	18	18	18	21	23	26	27	28	29	30	31	31	32	32	31	31	30	26	23	21	20	25.2	31.7
15-Jul-07	18	18	16	16	15	19	18	19	22	22	22	21	20	21	23	24	25	23	21	20	19	16	14	13	19.3	24.7
16-Jul-07	13	13	13	12	12	12	14	18	19	21	23	25	26	27	27	28	26	25	23	22	21	20	19	18	19.9	28.1
17-Jul-07	18	17	16	15	14	15	17	20	21	23	24	25	26	26	25	25	25	26	25	24	24	20	18	17	21.1	26.0
18-Jul-07	17	18	18	17	17	18	18	20	21	22	23	23	23	23	24	24	24	22	22	21	20	19	19	19	20.4	24.3
19-Jul-07	18	18	17	17	17	17	18	17	18	18	19	19	19	21	20	17	16	16	16	16	16	14	13	12	17.0	20.8
20-Jul-07	13	12	12	12	11	11	13	15	16	17	19	19	21	22	22	21	22	22	20	22	21	18	16	15	17.1	22.2
21-Jul-07	14	14	14	13	12	13	14	16	17	19	21	21	23	24	24	24	24	24	22	20	18	17	16	16	18.4	24.2
22-Jul-07	15	14	14	14	13	14	15	17	20	21	23	25	26	27	27	27	27	26	25	23	21	21	19	18	20.5	27.3
23-Jul-07	18	17	15	15	15	15	16	17	18	21	22	21	22	21	20	20	20	18	16	15	14	14	13	13	17.1	22.2
24-Jul-07	13	12	12	11	10	11	13	13	14	15	16	17	18	18	17	18	18	18	18	17	15	13	11	10	14.5	18.4
25-Jul-07	9	9	9	8	8	9	12	13	17	18	19	20	21	22	23	24	24	24	24	24	22	18	17	15	17.1	24.3
26-Jul-07	15	14	12	13	10	9	10	12	14	17	20	22	24	25	26	26	26	25	24	23	21	20	19	19	18.5	25.9
27-Jul-07	19	19	18	17	17	15	16	18	20	21	23	24	26	26	27	26	26	26	26	24	22	20	20	19	21.4	27.1
28-Jul-07	18	18	16	17	15	15	16	17	20	22	25	26	28	26	26	26	27	26	25	24	22	20	18	18	21.2	27.6
29-Jul-07	18	17	18	16	16	15	15	17	18	19	22	23	24	25	26	25	25	22	21	20	18	15	13	12	19.2	26.4
30-Jul-07	13	12	11	10	10	10	12	13	13	15	16	16	18	18	18	18	18	18	17	17	15	13	13	11	14.4	18.4
31-Jul-07	11	11	10	9	9	9	10	12	14	14	14	14	14	16	16	16	16	16	16	17	15	12	12	11	13.1	17.5
Hourly Avg	15.3	14.6	14.0	13.3	12.9	13.3	14.8	16.4	18.2	19.7	21.0	21.9	22.8	23.5	23.9	24.0	23.9	23.3	22.6	21.9	20.4	17.9	16.6	15.9		
Hourly Max	21.9	19.5	19.6	18.4	18.2	19.3	20.8	23.2	25.6	27.2	28.7	30.5	31.8	32.9	33.9	34.4	34.1	33.8	33.1	32.9	29.6	27.0	26.8	23.5		

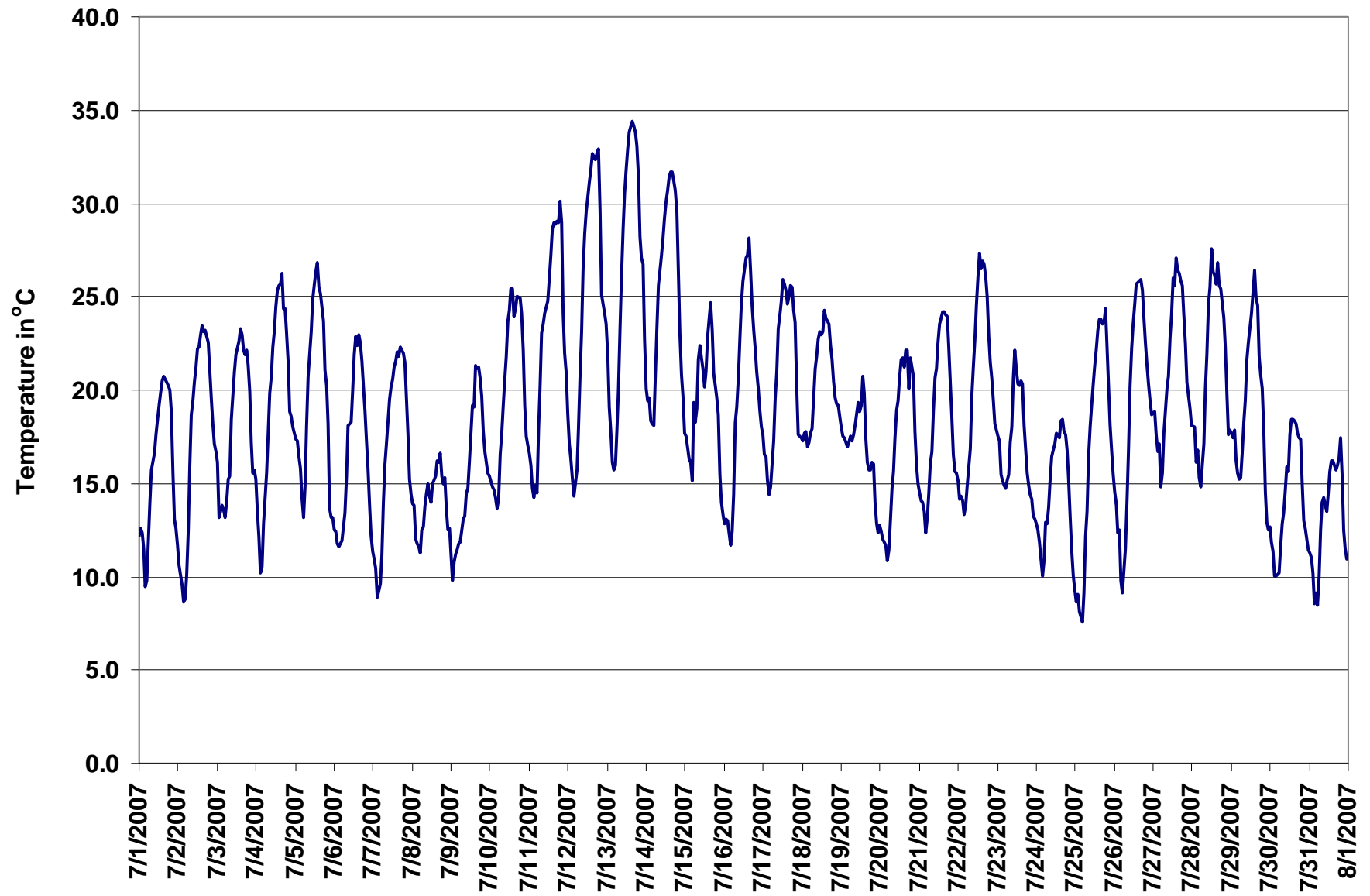


Figure 45. PASZA - Beaverlodge Temperature 1-hr Average Monthly Trend

PASZA - Beaverlodge Scalar Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

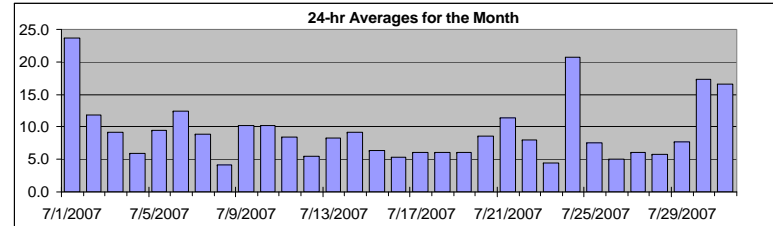
Wind Speed (WSs)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	36.4	km/hr	24-Jul	12:00 13:00
Maximum 24-hr Value:	23.7	km/hr	1-Jul	

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
	32.7	23.8	12.2	7.2	4.5	2.2	1.3	9.2 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jul-07	25	31	32	25	13	6	13	24	28	35	34	33	32	31	30	31	30	27	26	23	15	12	9	5	23.7	34.7
2-Jul-07	2	2	4	1	2	3	3	7	16	20	22	24	21	23	21	15	17	20	17	16	9	8	7	5	11.8	24.4
3-Jul-07	6	3	3	2	4	4	4	4	9	8	13	13	12	13	14	10	12	13	16	17	14	9	8	7	9.1	16.8
4-Jul-07	7	3	3	4	3	2	2	4	7	9	8	6	6	6	5	6	5	12	11	7	6	7	8	7	5.9	11.8
5-Jul-07	6	4	3	2	4	4	5	11	15	14	10	14	14	15	16	16	18	15	11	5	14	6	3	4	9.5	18.4
6-Jul-07	6	7	8	9	5	5	7	8	11	14	16	16	16	21	22	20	19	20	18	12	9	7	9	8	12.4	21.7
7-Jul-07	8	5	7	6	6	6	2	6	16	16	15	14	15	14	13	13	12	12	8	6	2	2	5	5	8.9	15.8
8-Jul-07	6	5	3	1	1	4	3	3	5	4	7	8	8	4	6	3	4	2	5	3	3	4	2	5	4.2	7.9
9-Jul-07	6	5	9	8	10	12	13	13	13	14	13	13	11	11	11	8	9	10	10	12	10	9	7	4	10.1	13.7
10-Jul-07	2	1	1	3	1	3	4	10	14	14	13	13	13	18	21	18	16	18	16	12	10	9	7	7	10.1	20.5
11-Jul-07	7	7	4	3	3	3	3	8	15	19	14	12	11	11	13	15	13	14	10	4	3	4	4	3	8.5	19.4
12-Jul-07	3	4	5	5	3	2	2	2	3	5	8	8	10	11	10	9	8	6	4	3	4	6	5	5	5.5	10.8
13-Jul-07	5	2	1	4	3	1	2	3	3	4	10	13	14	15	15	14	11	13	12	8	11	11	14	8	8.2	15.1
14-Jul-07	5	4	9	8	8	7	5	5	5	11	11	9	16	16	12	14	14	11	9	11	12	12	3	4	9.2	15.9
15-Jul-07	4	4	6	5	4	7	5	4	5	9	9	8	7	7	7	11	9	4	5	7	13	7	4	2	6.4	13.1
16-Jul-07	3	3	5	7	5	3	2	3	7	10	8	7	7	6	6	6	6	10	8	5	3	3	4	2	5.3	9.7
17-Jul-07	6	5	3	3	3	4	2	2	3	5	9	10	9	9	8	7	6	6	4	5	6	17	9	6	6.1	16.5
18-Jul-07	4	7	6	7	8	10	9	6	6	4	5	5	6	6	4	5	8	7	4	5	4	5	6	6	6.1	10.1
19-Jul-07	3	4	4	2	4	6	6	5	4	5	5	9	8	4	5	8	12	8	6	6	11	10	5	5	6.1	12.0
20-Jul-07	4	4	3	4	5	8	7	8	7	12	13	11	12	20	20	17	14	10	9	3	3	2	3	6	8.5	19.6
21-Jul-07	5	9	9	10	6	5	7	10	10	13	19	23	20	17	14	14	14	17	16	16	12	4	3	4	11.5	22.8
22-Jul-07	8	3	2	1	3	3	4	4	9	9	6	6	8	6	9	18	19	20	19	13	7	4	4	5	8.0	20.0
23-Jul-07	5	5	2	4	3	4	1	2	3	4	3	2	5	6	7	7	4	9	7	3	3	2	6	10	4.5	9.7
24-Jul-07	12	10	7	7	6	7	12	16	19	33	33	33	36	34	31	30	31	33	28	25	22	16	10	5	20.6	36.4
25-Jul-07	5	6	6	3	2	3	2	6	16	16	14	12	12	10	10	10	10	7	7	5	3	4	4	3	7.5	16.3
26-Jul-07	3	3	3	4	0	1	3	1	3	3	4	6	9	9	8	8	9	8	5	4	5	6	6	7	5.0	9.5
27-Jul-07	7	5	8	12	7	3	7	6	8	10	9	6	5	6	6	7	5	5	7	5	3	4	3	1	6.1	12.4
28-Jul-07	3	3	1	5	7	7	7	4	4	6	5	5	4	7	8	5	7	5	7	5	4	10	10	10	5.7	10.3
29-Jul-07	7	5	8	11	8	11	13	7	5	4	4	4	4	5	5	5	10	15	12	8	11	11	5	6	7.7	14.8
30-Jul-07	8	6	11	7	8	10	8	15	16	19	23	21	24	29	29	31	27	22	21	22	18	15	13	10	17.3	31.3
31-Jul-07	12	15	11	6	12	6	9	17	24	26	22	26	27	25	24	25	23	22	17	14	10	8	9	9	16.6	27.2
1-hr Average	6.2	5.9	6.0	5.8	5.1	5.1	5.5	7.3	10.0	12.2	12.4	12.6	13.0	13.4	13.2	13.0	12.9	13.0	11.5	9.3	8.4	7.5	6.3	5.7		
Hourly Max	24.9	31.1	32.1	25.2	13.3	12.3	12.9	24.1	28.1	34.7	33.6	32.7	36.4	33.6	31.1	31.3	31.0	32.9	27.6	24.6	21.6	16.5	14.1	10.3		

PASZA - Beaverlodge Vector Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

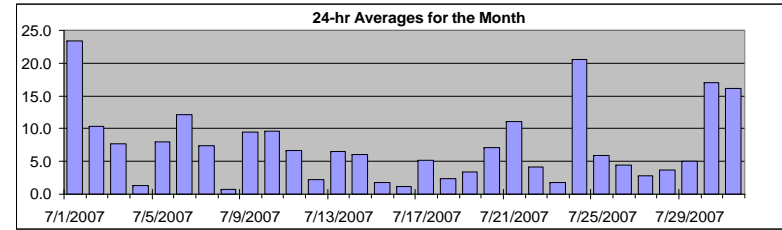
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	36.1	km/hr	24-Jul	12:00 13:00
Maximum 24-hr Value:	23.4	km/hr	1-Jul	



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
	32.4	23.6	11.9	6.8	3.7	1.3	0.5	26.0 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Jul-07	25	31	32	25	13	5	13	24	28	35	34	32	31	31	30	30	29	27	26	22	15	12	9	5	23.4	34.5	
2-Jul-07	1	1	2	1	1	3	2	6	16	20	22	24	20	22	21	14	17	19	17	16	9	8	7	5	10.3	24.1	
3-Jul-07	6	3	2	1	2	3	2	4	9	8	12	13	11	13	13	9	11	13	16	17	13	9	8	7	7.7	16.7	
4-Jul-07	7	1	3	3	2	1	0	4	6	9	7	5	5	4	2	5	2	12	10	7	6	7	8	7	1.3	11.7	
5-Jul-07	6	4	2	1	2	4	2	11	15	13	10	14	13	14	15	15	18	15	10	4	12	5	2	3	8.0	18.2	
6-Jul-07	6	7	8	9	5	5	6	8	11	14	16	16	15	21	21	20	18	19	17	12	9	7	9	8	12.1	21.1	
7-Jul-07	8	4	6	1	3	5	2	6	16	15	15	14	14	14	12	12	11	12	7	5	2	1	5	5	7.3	15.7	
8-Jul-07	6	5	3	1	1	2	1	3	5	4	7	8	7	4	6	3	4	2	5	2	3	2	2	4	0.7	7.8	
9-Jul-07	6	5	9	8	10	12	13	13	13	14	13	13	11	10	10	7	8	9	10	12	10	9	7	4	9.4	13.5	
10-Jul-07	2	1	1	2	0	2	4	10	14	14	13	12	13	17	20	18	15	18	16	12	10	9	7	7	9.6	20.3	
11-Jul-07	7	7	2	2	2	3	3	8	14	19	13	11	11	10	13	15	12	13	10	4	2	4	4	3	6.7	19.3	
12-Jul-07	3	3	5	5	3	1	1	2	3	4	7	6	10	10	9	8	7	6	4	3	4	6	5	5	2.2	10.3	
13-Jul-07	3	0	1	4	3	1	2	3	2	3	10	13	14	14	15	14	11	13	12	8	11	11	3	7	6.6	14.7	
14-Jul-07	2	4	9	8	8	6	4	4	5	10	11	9	15	15	12	13	13	9	9	11	12	12	2	1	6.0	15.5	
15-Jul-07	1	3	6	3	4	7	3	4	4	9	8	7	6	6	7	11	8	3	5	6	13	5	3	0	1.8	12.5	
16-Jul-07	2	1	3	5	3	2	0	3	7	9	8	5	5	4	5	4	5	9	7	5	3	3	3	2	1.2	9.5	
17-Jul-07	5	5	2	0	2	4	1	1	3	5	8	9	8	9	8	7	6	6	4	4	6	13	8	3	5.1	13.1	
18-Jul-07	2	7	2	4	8	10	9	5	6	3	5	5	5	6	3	4	7	7	3	3	4	4	6	3	2.4	10.1	
19-Jul-07	2	2	2	1	3	5	6	5	4	4	4	9	8	3	4	7	12	7	6	5	9	9	5	5	3.5	12.0	
20-Jul-07	4	3	3	4	5	7	7	7	7	11	13	11	12	19	19	16	13	9	8	2	3	1	2	6	7.1	19.1	
21-Jul-07	4	9	9	10	6	4	7	10	10	13	18	22	19	16	14	13	13	17	16	16	12	3	2	4	11.1	22.4	
22-Jul-07	8	1	1	1	3	3	4	4	8	8	5	5	7	4	8	17	19	20	19	13	7	3	3	4	4.2	19.6	
23-Jul-07	5	4	2	4	3	4	1	2	2	4	2	1	4	5	6	7	3	3	6	3	2	0	4	10	1.7	9.6	
24-Jul-07	12	10	7	7	6	7	12	16	19	33	33	33	36	33	31	30	31	33	28	25	22	16	10	5	20.6	36.1	
25-Jul-07	4	6	6	1	1	2	2	6	16	16	13	12	12	10	9	9	9	7	7	4	3	3	4	3	6.0	16.0	
26-Jul-07	3	3	2	3	0	1	1	1	2	3	4	6	8	9	7	7	9	8	5	4	5	6	6	7	4.5	8.7	
27-Jul-07	7	5	7	12	6	3	6	5	8	10	8	4	4	3	4	6	4	5	7	5	3	4	3	1	2.8	12.3	
28-Jul-07	3	3	1	4	1	4	7	3	4	5	4	4	1	6	7	5	6	4	7	5	2	9	10	10	3.7	10.3	
29-Jul-07	7	2	8	5	7	11	13	7	4	4	3	3	3	3	4	3	8	14	12	7	11	9	3	5	5.1	13.5	
30-Jul-07	8	6	10	7	8	10	7	15	16	19	23	21	24	29	29	31	27	22	21	22	18	15	13	9	17.0	30.9	
31-Jul-07	12	15	11	6	12	6	8	17	24	26	22	26	27	25	23	25	23	22	17	13	10	8	9	9	16.1	27.0	
1-hr Vector	2.3	2.2	2.3	2.6	1.7	1.6	2.1	5.0	7.2	9.0	8.5	8.7	8.4	9.3	8.7	7.7	7.3	7.1	5.9	5.3	4.4	2.1	1.8	1.8			
Hourly Max	24.9	31.0	32.0	25.1	13.2	12.2	12.8	24.0	27.9	34.5	33.5	32.5	36.1	33.4	30.6	30.9	30.7	32.7	27.5	24.5	21.6	15.7	13.4	10.3			

PASZA - Beaverlodge Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	348.6	323.7	284.1	253.3	117.0	33.8	8.1	276 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-Jul-07	252	251	256	250	242	225	244	253	261	265	266	264	263	266	272	275	270	271	270	271	275	266	260	254	262	W
2-Jul-07	230	236	80	148	106	95	143	265	273	267	261	263	259	266	264	290	294	287	292	294	295	319	316	323	277	W
3-Jul-07	341	188	71	235	251	60	290	210	235	252	241	264	268	271	286	286	317	281	285	268	272	293	292	311	276	W
4-Jul-07	301	339	123	89	90	204	17	260	287	310	290	281	310	318	332	71	96	112	108	103	107	87	82	97	54	NE
5-Jul-07	108	137	343	35	318	308	277	277	298	318	309	299	304	298	296	301	312	319	297	276	289	324	143	242	301	WNW
6-Jul-07	271	288	279	287	287	273	245	242	251	259	251	253	259	267	274	276	283	284	263	272	279	276	264	271	269	W
7-Jul-07	268	289	262	324	335	351	311	273	282	285	281	286	274	275	297	308	309	293	319	347	9	35	83	85	296	WNW
8-Jul-07	83	93	108	94	44	31	68	184	223	290	349	341	21	70	99	162	185	136	169	246	4	294	256	289	45	NE
9-Jul-07	265	284	311	310	312	316	312	316	327	318	322	318	320	289	288	299	298	276	273	269	259	271	266	251	299	WNW
10-Jul-07	213	128	235	255	98	286	305	290	296	298	301	296	305	297	282	270	274	279	283	282	276	269	263	264	284	WNW
11-Jul-07	269	257	275	317	266	117	180	238	288	301	310	308	309	297	297	304	305	301	313	325	228	84	89	101	297	WNW
12-Jul-07	116	79	68	68	75	87	111	181	229	267	296	284	300	300	316	315	344	327	1	43	89	82	77	88	345	NNW
13-Jul-07	87	150	100	71	74	231	81	182	135	179	158	131	123	130	136	120	125	110	109	97	94	98	227	262	126	SE
14-Jul-07	45	192	237	255	290	293	316	275	269	290	304	299	288	283	292	292	286	322	355	31	39	53	151	16	305	NW
15-Jul-07	342	8	44	29	43	35	155	199	181	148	191	244	4	288	334	5	32	48	50	260	315	8	261	195	351	N
16-Jul-07	78	356	25	22	15	240	173	313	322	326	320	314	308	16	67	40	99	153	197	223	201	182	128	103	354	N
17-Jul-07	105	113	84	29	39	41	229	160	185	131	124	138	115	109	111	126	116	112	106	55	30	126	89	146	111	ESE
18-Jul-07	356	67	202	326	40	31	39	35	56	267	44	72	143	185	148	151	111	123	158	203	56	62	253	33	73	ENE
19-Jul-07	251	256	33	77	179	217	263	276	328	325	120	143	140	199	195	170	173	136	178	171	242	245	218	213	197	SSW
20-Jul-07	229	207	197	231	214	242	203	191	186	196	207	218	242	251	247	242	244	200	189	77	110	80	312	285	225	SW
21-Jul-07	263	250	266	269	260	247	253	255	248	243	269	256	259	267	279	264	268	279	271	263	256	259	142	244	262	W
22-Jul-07	262	83	89	111	103	83	80	96	117	147	172	224	268	259	246	291	279	289	294	304	290	316	289	273	275	W
23-Jul-07	305	336	218	237	257	242	183	274	283	256	273	281	194	168	154	117	161	331	23	292	284	44	195	253	248	WSW
24-Jul-07	265	267	258	272	255	255	260	267	260	257	261	269	261	264	269	267	262	262	259	258	255	257	257	242	262	W
25-Jul-07	238	234	261	201	135	252	223	239	278	288	292	294	275	282	300	294	287	285	282	289	264	86	96	98	278	W
26-Jul-07	73	81	104	54	119	63	81	164	194	161	153	130	131	120	140	121	129	120	112	94	62	49	82	100	112	ESE
27-Jul-07	99	95	14	35	47	196	308	12	342	10	17	354	37	46	172	99	160	179	162	142	116	76	88	81	53	NE
28-Jul-07	79	65	303	347	125	53	321	321	328	324	336	24	92	31	39	78	73	84	106	112	97	342	38	41	40	NE
29-Jul-07	50	43	55	251	356	34	50	50	25	0	343	23	355	315	324	24	4	345	2	20	313	285	271	216	359	N
30-Jul-07	248	253	266	272	288	284	268	276	274	262	265	263	260	262	262	263	263	263	266	273	282	290	285	247	267	W
31-Jul-07	255	257	262	258	252	238	243	257	266	273	273	275	279	285	291	291	290	292	284	285	279	265	261	263	274	W
Hourly Avg	269	255	275	290	298	309	275	264	274	275	274	273	273	273	275	281	280	281	277	278	286	305	257	262		

PASZA - Beaverlodge Standard Deviation of Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	86.1	73.9	35.2	17.7	9.6	5.0	3.1

Status Flag Characters

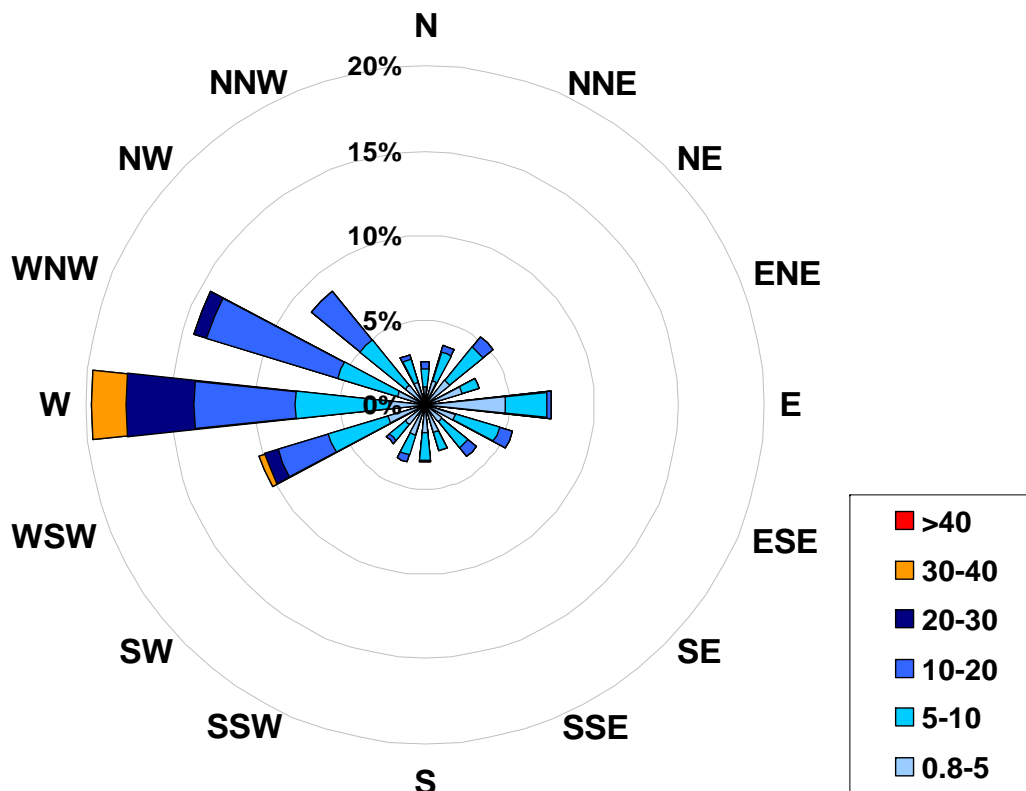
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-Jul-07	4	4	4	4	6	17	5	7	6	6	4	7	7	8	6	7	6	5	6	4	4	7	27	27.3	
2-Jul-07	88	72	76	54	43	21	34	77	5	8	10	9	15	10	12	14	10	11	6	5	6	6	5	8	87.6
3-Jul-07	9	26	61	67	66	55	69	51	11	20	12	12	13	13	18	24	20	13	5	6	13	5	14	12	68.8
4-Jul-07	15	71	44	36	27	69	86	35	21	20	22	40	41	68	70	41	91	9	8	5	8	6	6	10	90.6
5-Jul-07	11	49	53	64	68	29	80	19	7	9	16	13	17	13	17	11	9	11	26	33	26	66	58	69	79.9
6-Jul-07	17	11	8	6	13	22	34	17	5	7	7	15	23	14	13	12	12	9	5	6	5	11	5	3	33.9
7-Jul-07	6	27	24	79	63	24	57	25	6	10	15	14	20	18	23	18	19	20	27	23	15	64	11	22	79.4
8-Jul-07	10	16	27	20	54	67	76	21	15	24	18	11	17	18	20	45	29	79	7	56	51	71	34	35	78.7
9-Jul-07	27	20	14	5	5	6	5	6	8	8	12	13	14	23	19	35	29	20	9	5	3	8	3	18	34.9
10-Jul-07	31	37	31	41	79	59	13	5	6	10	15	16	12	11	8	12	17	5	7	9	9	9	7	7	78.6
11-Jul-07	22	11	86	71	88	35	25	15	8	7	12	17	14	23	20	14	15	13	20	38	36	22	8	18	88.4
12-Jul-07	28	21	10	6	22	22	52	41	45	37	29	40	21	19	23	30	30	34	33	14	16	7	6	9	51.8
13-Jul-07	72	79	47	21	57	69	9	29	51	50	12	13	10	13	13	9	11	7	6	7	3	6	81	28	80.9
14-Jul-07	84	41	15	9	12	12	24	34	29	14	14	22	17	12	17	16	18	32	23	13	8	17	72	84	83.6
15-Jul-07	76	40	15	76	15	33	48	21	54	18	23	31	35	34	26	17	20	27	15	47	18	47	71	81	80.6
16-Jul-07	47	78	54	40	59	66	86	21	13	13	24	40	51	51	49	64	33	17	11	19	23	14	36	30	86.0
17-Jul-07	31	21	28	92	56	54	66	52	45	42	18	20	25	18	29	16	14	18	19	30	11	52	34	56	91.8
18-Jul-07	57	9	77	54	11	7	9	34	20	56	30	25	35	15	44	23	13	11	42	78	14	69	31	63	78.0
19-Jul-07	75	79	56	49	41	29	19	25	24	35	60	13	10	40	39	17	5	33	18	22	39	16	9	9	78.6
20-Jul-07	9	22	26	11	14	6	15	13	17	12	18	21	16	15	12	12	15	30	36	56	20	87	73	18	86.8
21-Jul-07	42	10	5	7	8	16	17	8	11	9	16	10	12	15	15	18	15	7	7	9	4	42	48	37	48.2
22-Jul-07	5	74	65	42	10	19	10	17	21	21	35	42	28	56	28	11	9	12	6	6	13	74	42	23	73.8
23-Jul-07	33	28	56	13	26	11	89	21	47	24	47	82	38	15	18	10	42	85	32	47	67	77	45	11	88.7
24-Jul-07	5	5	10	15	13	8	10	8	10	8	6	7	7	7	9	8	8	6	5	5	3	2	2	5	15.4
25-Jul-07	23	10	9	71	42	75	51	19	10	11	15	17	21	25	24	25	28	37	17	16	22	34	15	13	75.3
26-Jul-07	25	12	33	31	66	30	74	35	22	46	38	24	26	24	29	29	19	13	10	16	10	4	18	3	73.9
27-Jul-07	6	10	35	5	26	34	31	33	18	11	26	53	65	67	69	31	50	26	16	15	28	11	9	8	68.8
28-Jul-07	18	51	84	31	86	55	21	56	17	17	34	53	82	37	34	38	26	52	10	8	74	28	17	3	86.2
29-Jul-07	9	81	10	87	39	11	8	16	38	39	57	70	63	71	46	58	46	29	16	20	15	32	42	17	86.8
30-Jul-07	6	10	12	11	6	11	19	11	7	10	8	9	8	9	9	8	7	6	4	6	8	5	3	20	19.7
31-Jul-07	4	5	7	11	11	10	10	7	8	7	6	6	7	7	9	7	7	6	7	5	6	8	7	6	11.4

Hourly Max	88	81	86	92	88	75	89	77	54	56	60	82	82	71	70	64	91	85	42	78	74	87	81	84
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1-hr Average Wind Rose (in km/hr) Located at the Beaverlodge Site for July 2007



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	227
5	to	10	271
10	to	20	186
20	to	30	42
30	to	40	18
	>	40	0
Total Non-Zero Values			744

PASZA – Portable Falher Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Portable-Falher Sulphur Dioxide Monthly Summary

HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Station: Portable-Falher
 Station Owner: PASZA

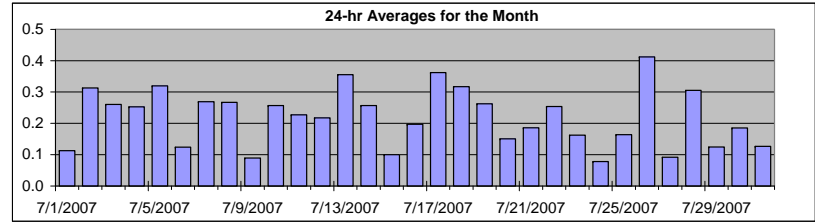
Monitoring Dates: July 1, 2007 to August 1, 2007

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

Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	2.8 ppb 13-Jul 9:00 10:00
Maximum 24-hr Average:	0.4 ppb 26-Jul

AIC Time:	32 hrs	Operational Time:	705 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.0	0.6	0.3	0.2	0.1	0.0	0.0	0.2 ppb	0.2 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jul-07	0	0	N	N	N	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.3
2-Jul-07	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	1.3
3-Jul-07	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.5
4-Jul-07	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.3	0.6
5-Jul-07	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.3	1.3
6-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.1	0.3
7-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	0	0	0	0	0	0.3	0.9
8-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	1	0	0	0.3	0.6
9-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.1	0.2
10-Jul-07	0	0	0	0	0	0	0	0	0	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7
11-Jul-07	0	0	0	0	0	0	0	0	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
12-Jul-07	0	0	0	0	0	0	0	0	0	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
13-Jul-07	0	0	0	0	0	0	0	1	0	3	A	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0.4	2.8
14-Jul-07	0	0	0	0	0	0	0	0	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.0
15-Jul-07	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
16-Jul-07	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
17-Jul-07	0	0	0	0	0	0	A	2	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.4	1.6
18-Jul-07	0	0	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0.3	1.0
19-Jul-07	0	0	0	0	A	0	0	0	0	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0.3	0.8
20-Jul-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
21-Jul-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
22-Jul-07	0	0	A	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.0
23-Jul-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
24-Jul-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.4
25-Jul-07	0	0	0	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
26-Jul-07	0	0	0	A	0	0	0	1	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.7
27-Jul-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
28-Jul-07	0	A	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0.3	1.0
29-Jul-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.3
30-Jul-07	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.6
31-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.1	0.2
Hourly Avg	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.4	0.4	0.5	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1			
Hourly Max	0.3	0.3	0.3	0.5	0.3	0.3	0.7	1.6	2.5	2.8	0.6	1.0	0.7	0.8	1.0	0.8	0.8	1.0	0.7	0.9	0.5	0.3	0.6	0.3			

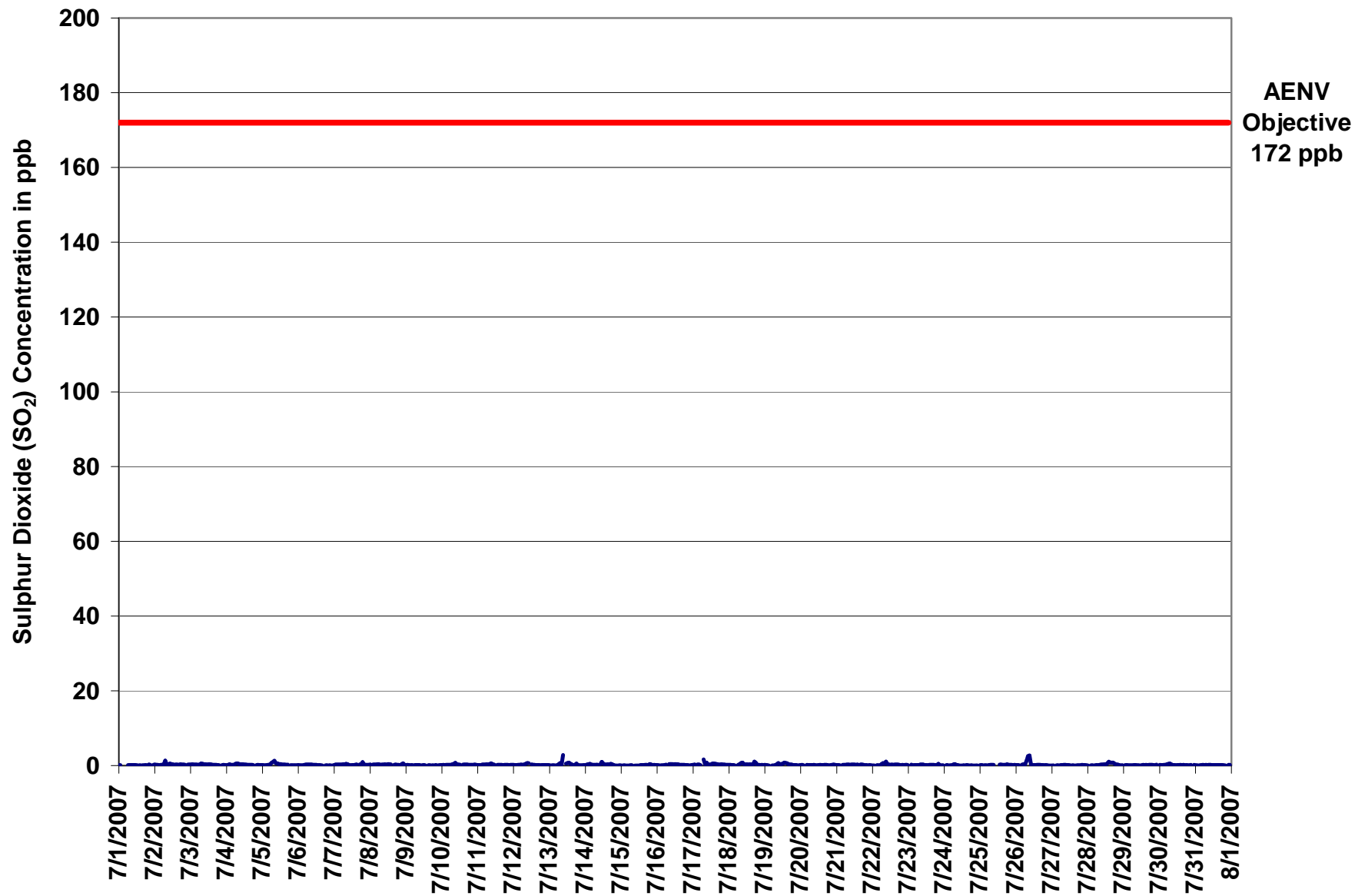


Figure 46. PASZA - Portable-Falher Sulphur Dioxide 1-hr Average Monthly Trend

Station: Portable-Falher
 Station Owner: PASZA

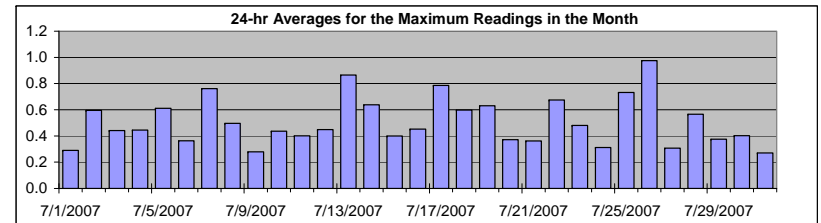
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	7.7	ppb	13-Jul	9:00 10:00
Maximum 24-hr Value:	1.0	ppb	26-Jul	



AIC Time:	32 hrs	Operational Time:	705 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.7	1.2	0.5	0.3	0.3	0.2	0.2	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	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-Jul-07	0	0	N	N	N	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	A	0	0.3	0.7
2-Jul-07	0	0	0	0	0	0	1	3	1	1	1	1	1	0	0	0	0	0	1	0	0	A	0	0	0	0.6	2.8
3-Jul-07	0	0	0	0	0	0	0	1	1	1	0	0	1	1	0	0	0	0	0	0	A	0	0	0	0	0.4	0.9
4-Jul-07	0	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	A	0	0	0	0	0	0.4	0.8
5-Jul-07	0	0	0	0	0	1	1	1	2	1	1	1	1	1	0	0	0	0	A	0	0	0	0	0	0	0.6	1.8
6-Jul-07	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	0	0	A	0	0	0	0	0	0	0	0.4	0.7
7-Jul-07	0	1	1	1	0	1	1	1	1	1	0	0	0	0	0	0	A	0	0	7	0	0	0	0	0	0.8	6.7
8-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	A	0	0	0	0	0	1	1	0	0.5	1.3
9-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.3	0.4
10-Jul-07	0	0	0	0	0	0	0	1	1	1	1	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0.4	1.0
11-Jul-07	0	0	0	0	0	1	1	1	1	1	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8
12-Jul-07	0	0	0	1	1	1	1	1	1	1	1	A	1	0	1	0	0	0	0	0	0	0	0	0	0	0.4	0.7
13-Jul-07	0	0	0	0	0	0	1	1	1	8	A	1	1	2	1	1	0	1	1	1	0	0	0	0	0	0.9	7.7
14-Jul-07	0	1	1	1	1	1	1	0	1	A	1	2	1	1	1	1	1	1	1	1	0	0	0	0	0	0.6	2.2
15-Jul-07	0	0	0	0	0	0	0	0	A	0	0	0	0	0	1	0	1	0	0	3	0	0	0	0	0	0.4	3.2
16-Jul-07	0	0	0	0	0	0	0	0	A	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.5	0.8
17-Jul-07	1	0	0	0	1	0	A	4	1	3	0	0	0	1	1	1	1	0	0	0	0	1	0	0	0	0.8	4.2
18-Jul-07	0	0	0	0	0	A	0	0	1	1	1	1	1	0	0	0	1	2	1	0	0	0	0	0	0	0.6	1.8
19-Jul-07	0	0	0	0	A	0	0	0	1	1	1	1	1	2	1	1	1	1	1	0	0	0	0	0	0	0.6	2.0
20-Jul-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.4
21-Jul-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.4	0.8
22-Jul-07	0	0	A	0	0	0	1	1	4	2	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0.7	4.2
23-Jul-07	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0.5	3.7
24-Jul-07	A	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.8
25-Jul-07	0	0	0	0	0	0	0	1	0	1	C	C	C	8	0	0	0	1	1	0	0	0	0	0	0	0.7	7.7
26-Jul-07	0	0	0	A	1	1	0	2	7	6	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1.0	6.9
27-Jul-07	0	0	A	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7
28-Jul-07	0	A	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0.6	1.4
29-Jul-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.4	0.4
30-Jul-07	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.4	0.9
31-Jul-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	0.5
Hourly Avg	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.8	0.9	1.2	0.6	0.5	0.5	0.8	0.5	0.4	0.4	0.5	0.5	0.6	0.4	0.4	0.3	0.3			
Hourly Max	0.7	0.8	0.7	0.7	0.7	0.8	1.3	4.2	6.9	7.7	1.8	2.2	1.4	7.7	1.3	1.3	1.3	1.8	1.5	6.7	3.7	1.3	1.3	0.4			

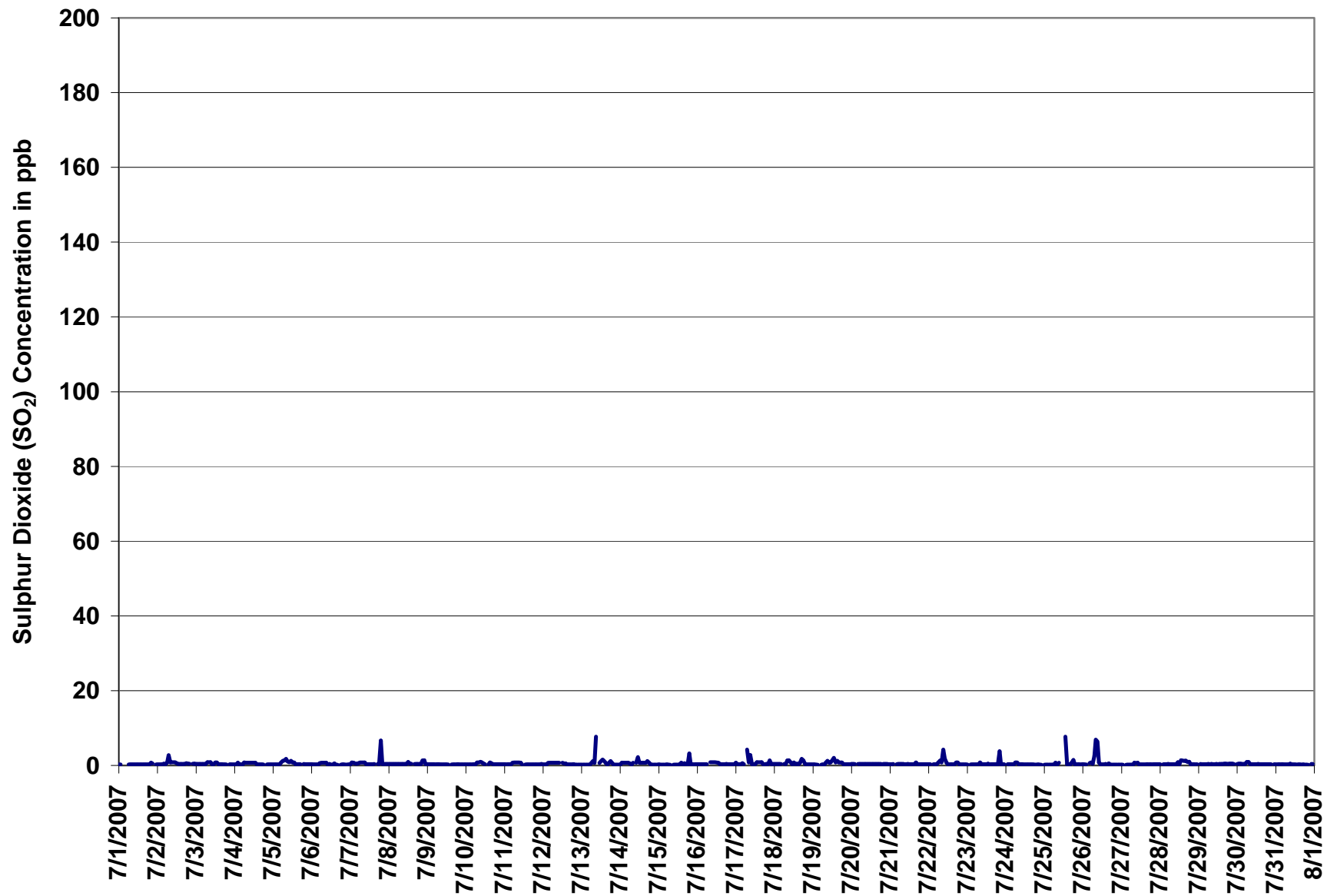
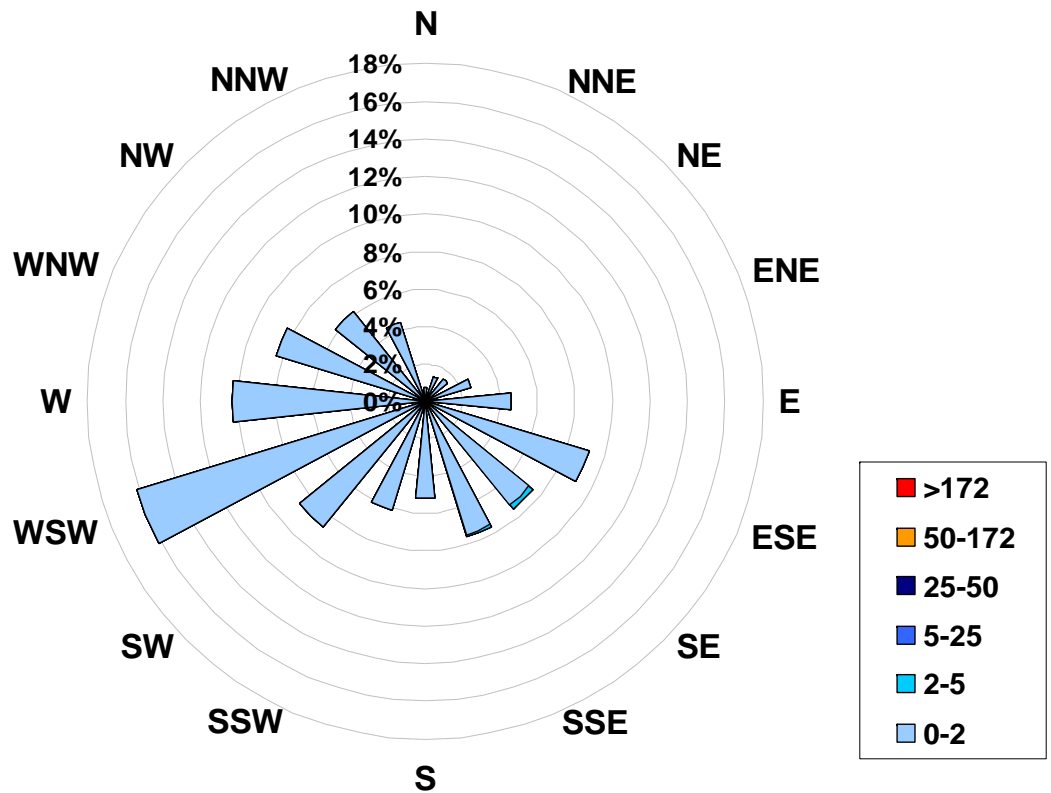


Figure 47. PASZA - Portable-Falher Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	702
2	to	5	3
5	to	25	0
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			705

PASZA - Portable-Falher Nitrogen Dioxide Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

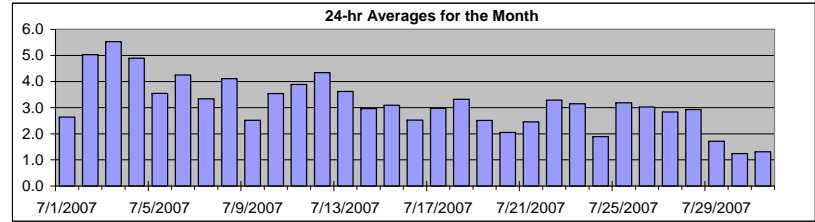
Monitoring Dates: July 1, 2007 to August 1, 2007

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

Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	15.4 ppb 2-Jul 23:00 0:00
Maximum 24-hr Average:	5.5 ppb 3-Jul

AIC Time:	33 hrs	Operational Time:	696 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	98.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	11.6	8.4	4.2	2.3	1.4	0.8	0.3	3.2 ppb	2.3 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-Jul-07	4	3	N	N	N	N	1	1	1	1	1	1	1	1	1	1	1	1	2	2	4	8	A	11	2.6	11.0	
2-Jul-07	11	10	8	8	8	7	4	3	2	2	2	2	2	1	1	1	1	1	2	2	6	A	15	15	5.0	15.4	
3-Jul-07	13	13	10	12	11	7	5	3	3	2	2	2	2	2	2	2	2	2	2	3	A	9	9	10	5.5	13.4	
4-Jul-07	10	8	8	7	6	5	3	2	2	2	2	1	1	1	1	1	1	2	2	A	11	13	13	9	4.9	13.0	
5-Jul-07	8	6	4	4	3	3	4	4	4	3	2	2	2	1	1	1	1	1	A	6	4	3	6	7	3.5	8.0	
6-Jul-07	8	6	10	8	6	3	3	2	2	1	1	1	1	1	1	1	1	A	4	5	8	10	8	6	4.2	9.8	
7-Jul-07	6	3	3	5	5	4	3	2	2	2	1	1	1	1	1	1	A	3	3	4	4	5	7	10	3.3	9.6	
8-Jul-07	10	9	8	9	7	5	3	2	2	1	1	2	1	2	2	A	4	3	4	4	4	5	4	4	4.1	9.7	
9-Jul-07	5	2	2	2	2	2	3	2	1	1	1	1	1	1	A	3	2	2	2	3	5	8	4	3	2.5	7.5	
10-Jul-07	3	4	4	4	4	4	3	2	2	2	2	1	1	A	3	3	2	2	4	4	7	8	7	7	3.5	7.8	
11-Jul-07	6	7	7	5	4	3	2	2	2	1	1	1	A	2	2	2	1	2	2	5	6	9	9	9	3.9	9.5	
12-Jul-07	8	7	7	8	6	5	4	3	3	2	2	A	3	2	2	1	1	1	2	2	3	6	12	10	4.3	11.7	
13-Jul-07	8	6	6	5	5	4	4	3	3	3	A	3	2	2	2	2	2	2	3	2	2	3	5	5	3.6	8.3	
14-Jul-07	5	4	6	5	5	4	2	2	2	A	2	2	2	2	1	1	1	1	2	2	2	4	6	6	3.0	5.8	
15-Jul-07	5	5	6	6	7	5	4	3	A	3	2	2	1	1	1	1	1	2	2	3	3	3	3	2	3.1	7.3	
16-Jul-07	4	5	5	4	4	4	4	A	4	2	2	1	1	1	1	1	1	1	1	2	2	2	3	4	2.5	5.3	
17-Jul-07	5	5	4	5	4	4	A	4	3	2	2	1	1	1	1	1	2	1	2	4	5	2	3	3	3.0	5.4	
18-Jul-07	6	9	6	4	5	A	4	3	3	3	2	2	1	2	2	2	2	3	2	3	4	4	2	2	3.3	8.8	
19-Jul-07	1	1	1	1	A	3	5	3	3	3	3	3	3	3	2	2	2	2	2	2	3	4	3	3	2.5	4.7	
20-Jul-07	2	3	3	A	6	4	3	2	2	1	1	1	1	1	1	1	1	1	1	1	2	3	N	N	N	2.0	5.7
21-Jul-07	N	N	N	A	8	5	4	2	2	2	1	1	1	1	1	1	1	1	1	1	2	4	5	4	4	2.5	7.6
22-Jul-07	4	5	A	6	6	7	4	4	3	3	1	1	1	1	1	1	1	1	1	3	3	4	6	7	3.3	7.5	
23-Jul-07	7	A	11	8	6	6	5	3	2	1	1	1	1	1	1	1	1	1	2	2	3	1	2	5	3.1	10.7	
24-Jul-07	A	5	4	5	5	3	3	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	A	1.9	5.5	
25-Jul-07	4	3	2	2	2	2	2	2	1	1	C	C	C	C	C	A	3	3	2	3	4	5	8	9	3.2	8.8	
26-Jul-07	8	7	7	A	8	5	4	3	3	3	2	1	1	1	1	1	1	1	1	1	2	3	2	3	3.0	8.2	
27-Jul-07	4	3	A	4	5	5	4	3	2	2	2	1	1	1	1	1	1	1	2	2	3	5	6	8	2.8	8.5	
28-Jul-07	7	A	8	7	7	6	5	4	3	2	2	2	2	1	1	1	1	1	1	2	1	1	1	2	2.9	8.2	
29-Jul-07	A	4	3	2	3	3	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1	3	2	A	1.7	4.4	
30-Jul-07	3	2	2	2	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	2	A	5	1.2	4.8	
31-Jul-07	2	2	2	2	2	2	2	1	1	1	1	1	1	0	0	0	0	0	1	1	1	A	4	3	1.3	4.2	
Hourly Avg	6.0	5.3	5.5	5.2	5.3	4.2	3.3	2.5	2.1	1.8	1.5	1.4	1.3	1.3	1.3	1.2	1.4	1.5	1.9	2.7	3.7	4.8	5.6	6.1			
Hourly Max	13.4	12.7	10.7	11.6	11.1	7.3	5.0	4.4	3.7	3.4	3.0	3.2	3.0	2.8	3.0	3.1	4.0	3.4	4.2	5.5	10.6	13.0	14.7	15.4			

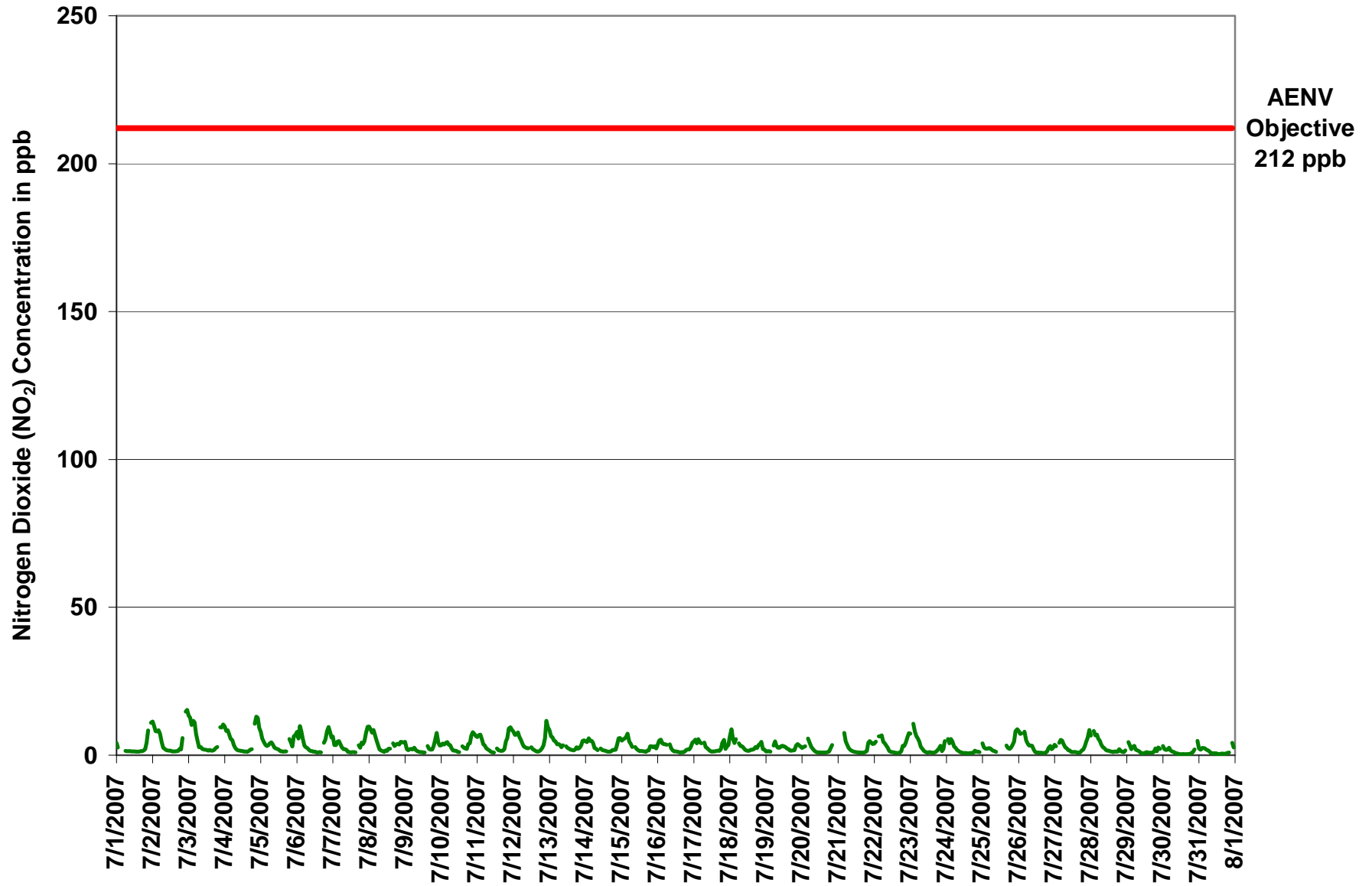


Figure 48. PASZA - Portable-Falher Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Portable-Falher
 Station Owner: PASZA

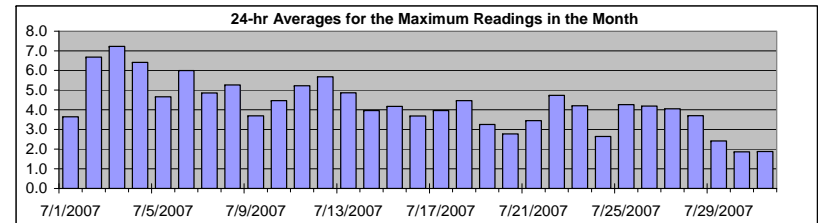
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	21.6	ppb	2-Jul	23:00 0:00
Maximum 24-hr Value:	7.2	ppb	3-Jul	



AIC Time:	33 hrs	Operational Time:	696 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	98.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	15.1	11.5	5.9	3.1	1.8	1.0	0.6	4.3 ppb	3.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-Jul-07	6	3	N	N	N	N	2	2	2	2	1	2	1	1	1	1	2	2	2	3	7	13	A	15	3.6	14.8	
2-Jul-07	12	12	11	9	10	9	6	4	3	2	2	2	2	2	2	2	2	2	4	3	12	A	21	22	6.7	21.6	
3-Jul-07	16	15	12	15	13	11	8	3	4	2	3	2	2	2	2	2	2	3	4	9	A	13	12	12	7.2	16.4	
4-Jul-07	12	11	12	8	7	6	5	3	2	2	2	2	2	2	2	2	2	3	4	A	17	16	15	12	6.4	17.1	
5-Jul-07	11	7	7	4	4	4	5	6	5	3	3	2	2	2	2	1	2	2	A	6	6	4	10	10	4.7	11.0	
6-Jul-07	11	7	15	13	10	4	3	3	2	2	2	2	2	1	1	1	1	A	6	7	13	13	10	9	6.0	15.1	
7-Jul-07	12	4	4	6	6	4	5	2	2	2	1	1	1	1	1	1	A	5	3	12	5	9	9	13	4.9	13.0	
8-Jul-07	13	10	9	10	9	6	5	3	2	2	2	2	2	4	4	A	7	4	5	5	4	6	5	5	5.3	12.6	
9-Jul-07	6	4	2	2	2	2	5	2	2	2	1	1	1	1	A	4	3	2	4	6	8	11	10	4	3.7	11.3	
10-Jul-07	4	5	5	5	5	4	4	4	2	2	2	1	1	A	5	3	3	3	5	5	10	9	9	8	4.5	10.1	
11-Jul-07	7	8	10	9	6	6	4	2	2	2	1	1	A	3	2	2	2	2	3	6	8	13	11	10	5.2	12.7	
12-Jul-07	11	8	8	9	8	6	5	5	3	3	3	A	4	2	2	2	2	1	2	2	4	5	10	16	11	5.7	16.5
13-Jul-07	12	8	7	7	6	5	4	4	3	5	A	4	3	3	2	2	2	3	3	3	3	7	8	7	4.9	12.2	
14-Jul-07	5	5	7	6	5	5	4	3	2	A	3	2	2	2	2	2	2	2	3	2	3	6	9	9	4.0	8.6	
15-Jul-07	7	7	6	9	10	7	4	3	A	5	2	2	2	2	2	2	1	2	2	6	4	3	4	3	4.2	9.8	
16-Jul-07	7	8	7	5	5	5	4	A	5	3	2	2	2	2	1	1	4	1	2	3	3	3	4	6	3.7	8.1	
17-Jul-07	5	7	6	8	6	5	A	6	3	3	2	2	2	2	2	2	2	2	3	5	7	3	3	5	4.0	7.7	
18-Jul-07	11	11	8	5	7	A	6	4	3	3	2	2	2	2	3	3	3	4	3	5	5	6	5	3	4.5	11.2	
19-Jul-07	2	2	2	2	A	4	6	4	3	3	3	4	4	4	2	2	2	2	3	2	5	5	4	4	3.2	5.9	
20-Jul-07	3	4	4	A	7	7	4	3	2	2	1	1	1	1	2	1	1	1	2	3	5	N	N	N	2.8	7.2	
21-Jul-07	N	N	N	A	10	8	6	4	2	2	2	1	1	1	1	1	1	1	1	2	5	6	7	5	3.4	10.5	
22-Jul-07	6	7	A	11	9	8	6	5	4	3	3	1	1	3	1	1	1	2	2	6	5	8	8	9	4.7	11.0	
23-Jul-07	9	A	12	9	8	7	6	3	2	2	2	1	2	2	1	1	1	2	2	3	8	3	3	7	4.2	12.5	
24-Jul-07	A	8	6	8	7	3	3	2	2	2	1	1	1	1	1	1	1	2	1	2	2	2	2	A	2.6	8.2	
25-Jul-07	6	3	2	3	3	3	3	2	2	2	C	C	C	C	C	A	4	3	3	4	5	7	11	12	4.3	11.5	
26-Jul-07	12	10	13	A	10	6	5	4	4	4	4	1	1	1	1	1	1	1	1	2	3	4	3	4	4.2	12.6	
27-Jul-07	5	4	A	6	7	7	5	3	2	2	2	1	1	1	1	1	1	2	3	3	4	10	11	10	4.0	11.1	
28-Jul-07	8	A	11	7	8	8	6	4	3	3	3	2	2	2	1	2	2	2	1	3	2	1	2	3	3.7	10.5	
29-Jul-07	A	6	5	3	3	4	4	2	2	1	1	1	1	1	1	1	1	1	2	3	3	3	3	A	2.4	6.3	
30-Jul-07	5	3	2	3	4	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	A	8	1.9	8.0	
31-Jul-07	3	2	4	3	4	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	A	7	3	1.9	6.8	
Hourly Avg	8.1	6.8	7.3	6.9	6.9	5.4	4.6	3.3	2.6	2.3	2.0	1.7	1.7	1.8	1.7	1.6	2.0	2.1	2.7	4.2	5.6	7.0	7.8	8.1			
Hourly Max	16.4	15.1	15.1	14.5	13.0	10.7	8.0	6.5	5.4	4.9	3.9	4.0	4.1	4.1	4.7	4.3	6.8	4.9	6.3	12.1	17.1	15.7	21.1	21.6			

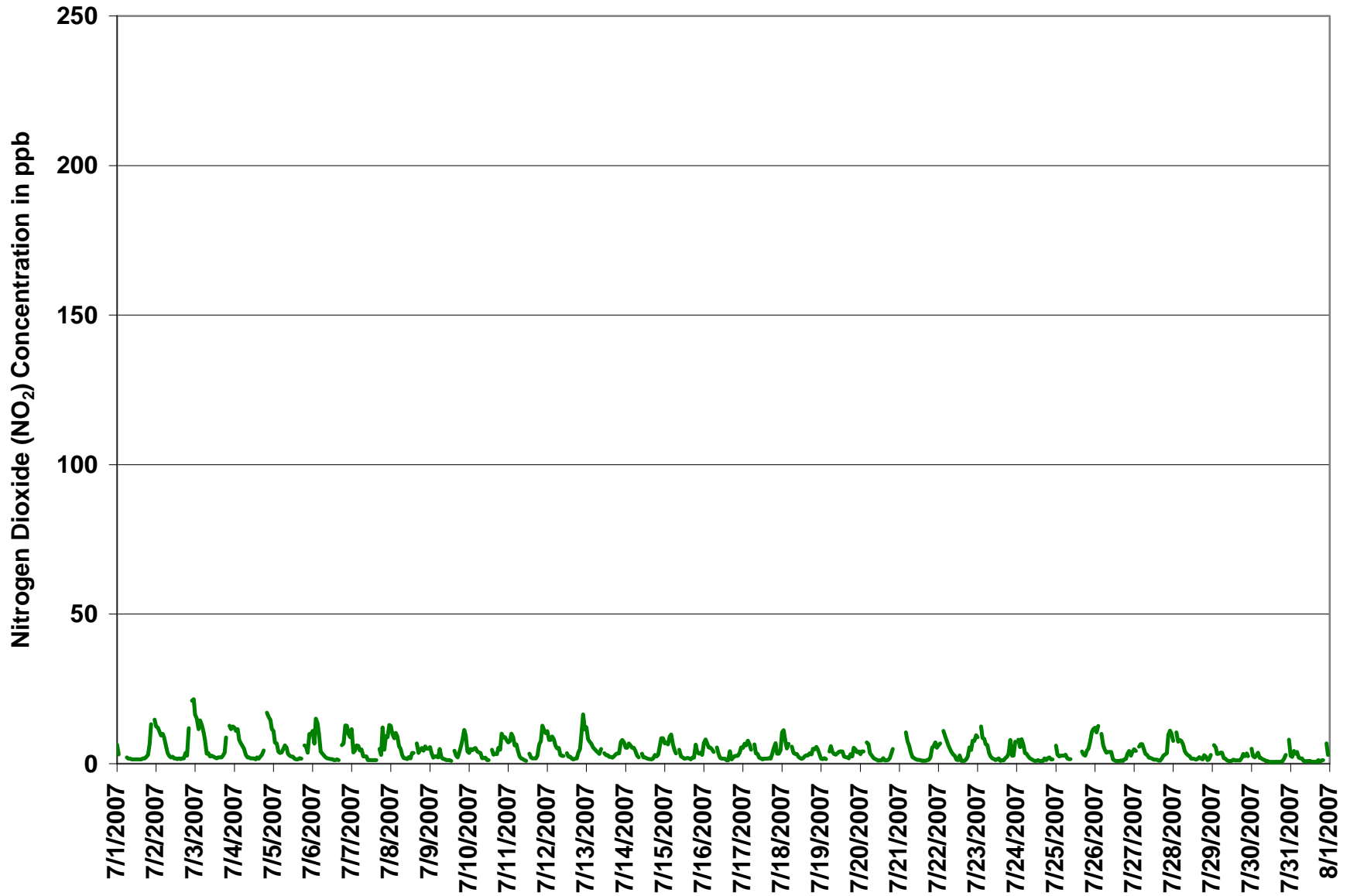
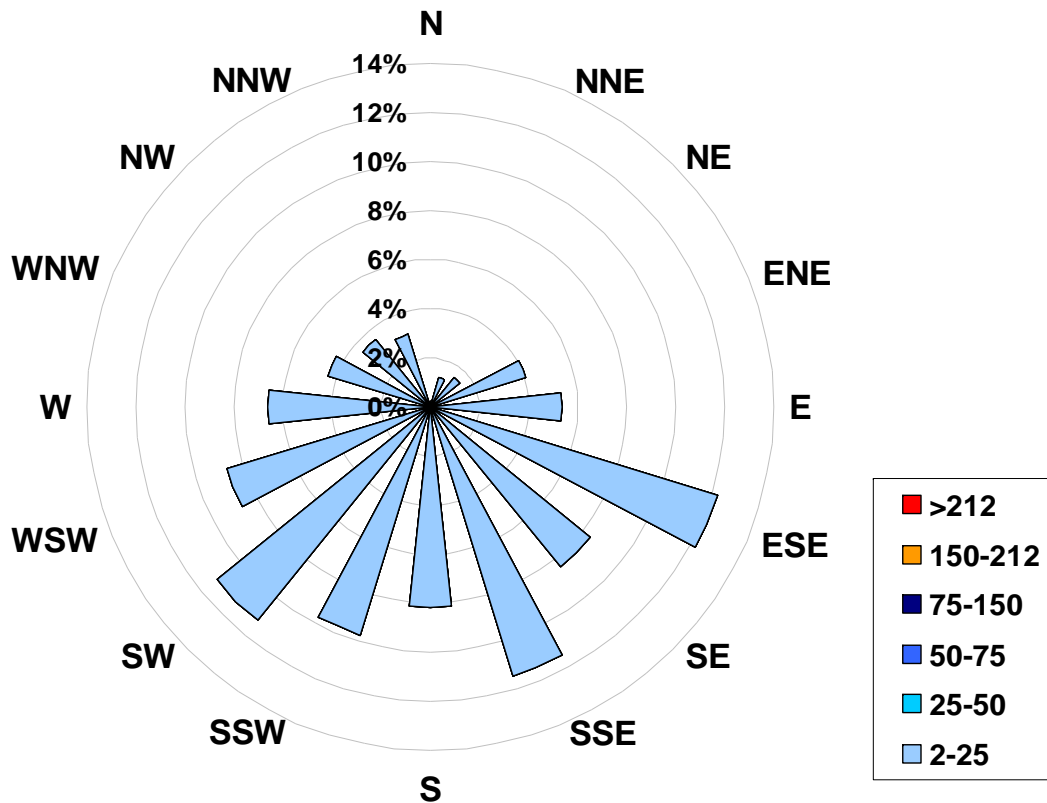


Figure 49. PASZA - Portable-Falher Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of NO ₂ in ppb			
Range			Frequency (hrs)
2.0	<	25	696
25	to	50	0
50	to	75	0
75	to	150	0
150	to	212	0
	>	212	0
Total Non-Zero Values			696

PASZA - Portable-Falher Nitric Oxide Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Nitric Oxide (NO)

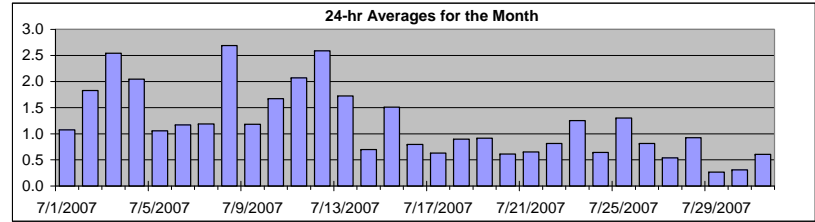
Monitoring Dates: July 1, 2007 to August 1, 2007

Guideline Limit:

1-hr	na	ppb	24-hr	na	ppb
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 Summary

Maximum 1-hr Average:	10.2	ppb	8-Jul	4:00	5:00
Maximum 24-hr Average:	2.7	ppb	8-Jul		



AIC Time:	33 hrs	Operational Time:	696 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	98.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	6.7	4.0	1.5	0.7	0.3	0.3	0.2	1.2 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	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-Jul-07	2	2	N	N	N	N	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	2	A	3	1.1	3.0	
2-Jul-07	4	4	4	3	3	4	3	2	1	1	1	1	1	1	0	0	0	0	0	1	1	1	A	2	5	1.8	5.0	
3-Jul-07	8	6	3	6	7	6	4	2	1	1	1	1	1	1	0	1	1	0	1	1	1	A	2	2	3	2.5	8.4	
4-Jul-07	2	2	3	3	3	4	3	2	1	1	0	0	0	0	0	0	0	0	0	1	1	A	4	6	7	5	2.0	6.5
5-Jul-07	4	2	2	2	1	1	2	2	1	1	0	0	0	0	0	0	0	0	0	0	A	1	0	0	1	1	1.1	3.7
6-Jul-07	2	1	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	A	0	1	2	2	2	1	1.2	2.4
7-Jul-07	1	1	1	1	3	3	3	2	1	1	0	0	0	0	0	0	0	0	A	0	0	2	1	1	2	2	1.2	3.3
8-Jul-07	5	5	6	7	10	8	4	1	1	1	1	1	1	1	1	1	1	A	1	1	2	2	1	1	2	2	2.7	10.2
9-Jul-07	2	2	1	2	2	1	2	2	2	1	1	1	1	1	0	A	0	0	0	1	1	2	2	1	1	1	1.2	2.0
10-Jul-07	1	1	1	1	3	4	4	3	1	1	1	0	0	A	0	1	1	1	1	2	2	2	3	2	2	1.7	4.4	
11-Jul-07	3	5	4	3	2	2	3	2	2	1	1	1	A	0	0	0	0	0	1	1	2	3	3	3	5	2.1	5.4	
12-Jul-07	6	5	4	6	2	4	4	2	1	1	0	A	0	0	0	0	0	0	0	0	1	1	1	9	10	2.6	10.2	
13-Jul-07	7	4	4	3	2	3	3	1	1	1	A	0	0	0	0	1	1	1	1	1	1	1	1	1	2	1.7	7.4	
14-Jul-07	1	1	1	1	1	1	1	1	1	A	0	0	0	0	0	0	0	0	1	1	0	1	1	2	0.7	1.6		
15-Jul-07	2	2	3	3	4	6	5	1	A	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1.5	6.2	
16-Jul-07	1	1	1	1	2	3	3	A	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0.8	2.7	
17-Jul-07	1	1	1	1	1	2	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0.6	1.8
18-Jul-07	1	2	2	1	2	A	2	2	1	1	1	0	0	0	0	0	0	1	1	0	1	1	1	0	0	0.9	2.4	
19-Jul-07	0	0	0	0	A	1	2	2	1	1	1	2	2	1	1	1	1	0	1	1	1	1	1	1	1	0.9	1.9	
20-Jul-07	1	1	1	A	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	N	N	N	0.6	1.3	
21-Jul-07	N	N	N	A	1	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.7	1.5
22-Jul-07	1	1	A	1	1	1	1	1	2	1	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	0.8	2.6	
23-Jul-07	4	A	2	4	4	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1.3	4.3	
24-Jul-07	A	1	1	1	1	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	A	0.6	1.6	
25-Jul-07	0	0	0	0	0	1	1	1	1	1	C	C	C	C	C	A	3	3	2	3	2	2	2	2	2	1.3	2.9	
26-Jul-07	2	1	1	A	2	3	3	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	2.9	
27-Jul-07	0	0	A	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	0.5	3.9	
28-Jul-07	1	A	2	2	2	3	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	4.2	
29-Jul-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.4	
30-Jul-07	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.6	
31-Jul-07	0	1	1	1	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.6	2.4	
Hourly Avg	2.2	1.9	1.9	2.1	2.3	2.6	2.3	1.4	1.0	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.9	1.0	1.2	1.6	2.1			
Hourly Max	8.4	5.7	6.3	6.7	10.2	8.4	4.6	2.6	1.9	1.1	1.4	1.7	1.7	1.0	1.1	0.7	2.9	2.6	2.4	2.5	4.2	6.4	8.6	10.2				

PASZA - Portable-Falher Oxides of Nitrogen Monthly Summary

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

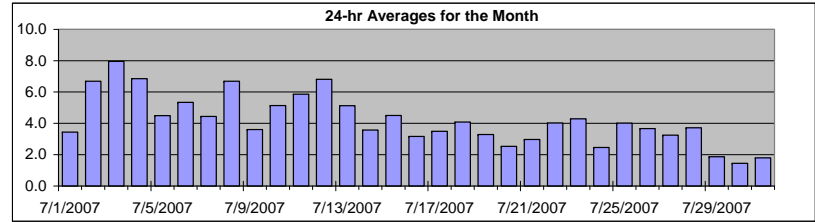
Station: Portable-Falher
 Station Owner: PASZA

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Maximum 1-hr Average:	21.6	ppb	3-Jul	0:00 1:00
Maximum 24-hr Average:	8.0	ppb	3-Jul	

AIC Time:	33 hrs	Operational Time:	696 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	98.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	18.1	11.7	5.5	2.9	1.6	0.9	0.6	4.2 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	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
1-Jul-07	6	4	N	N	N	N	3	2	2	2	2	2	2	1	1	2	2	2	2	2	5	10	A	14	3.4	13.7
2-Jul-07	15	14	12	11	12	11	7	4	3	3	2	2	2	2	2	2	2	3	2	7	A	16	20	6.7	20.4	
3-Jul-07	22	18	14	18	18	13	9	4	4	3	2	2	2	2	2	2	2	3	4	A	12	12	13	8.0	21.6	
4-Jul-07	11	10	11	10	9	9	6	4	3	2	2	2	2	1	2	1	2	2	3	A	15	19	19	14	6.9	19.3
5-Jul-07	12	8	6	5	4	5	6	6	5	3	3	2	2	2	2	1	1	1	A	6	5	3	7	8	4.5	11.6
6-Jul-07	9	6	12	10	8	5	4	4	3	2	2	1	1	1	1	1	1	A	5	6	10	12	9	7	5.3	12.0
7-Jul-07	8	4	4	6	7	7	5	3	3	2	1	1	1	1	1	1	A	4	3	6	5	6	9	12	4.4	11.9
8-Jul-07	15	13	14	15	17	13	7	3	2	2	2	2	2	3	3	A	5	4	5	5	5	6	6	6	6.7	16.7
9-Jul-07	6	4	3	3	4	3	4	3	3	2	2	2	1	1	A	3	3	2	2	4	7	10	5	4	3.6	9.5
10-Jul-07	4	5	5	5	7	7	8	5	3	2	2	2	1	A	3	3	3	3	5	6	9	10	10	9	5.1	10.5
11-Jul-07	9	12	10	9	6	6	5	4	3	2	1	1	A	3	2	2	2	2	3	7	9	12	13	14	5.9	13.8
12-Jul-07	14	12	11	14	8	10	8	5	3	3	3	A	3	2	2	2	2	2	2	3	4	7	20	20	6.8	20.1
13-Jul-07	16	11	10	8	7	7	6	5	3	4	A	3	3	2	2	2	2	2	4	3	3	4	6	7	5.1	15.6
14-Jul-07	6	5	7	6	6	5	3	3	2	A	3	2	2	2	2	1	1	2	2	2	2	4	7	7	3.6	7.4
15-Jul-07	7	8	8	9	11	11	8	4	A	3	2	2	2	2	2	2	1	2	2	4	4	3	4	3	4.5	11.0
16-Jul-07	4	6	7	5	5	6	6	A	4	2	2	1	1	1	1	1	1	1	1	2	2	2	3	5	3.2	6.6
17-Jul-07	5	6	5	6	5	6	A	5	3	3	2	2	1	1	1	2	2	2	2	5	6	2	3	4	3.5	6.2
18-Jul-07	7	11	7	5	8	A	6	5	4	3	2	2	2	2	2	2	2	3	3	4	4	5	2	2	4.1	10.8
19-Jul-07	1	1	2	2	A	4	7	5	4	3	4	5	5	4	3	3	2	2	2	2	4	5	4	4	3.3	6.5
20-Jul-07	3	4	4	A	6	5	4	3	2	1	1	1	1	1	1	1	1	1	1	3	4	N	N	N	2.5	6.3
21-Jul-07	N	N	N	A	9	6	5	3	3	2	1	1	1	1	1	1	1	1	1	2	5	6	5	4	3.0	8.9
22-Jul-07	5	6	A	7	7	8	6	5	5	3	2	1	1	1	1	1	1	1	2	4	4	5	8	10	4.0	10.0
23-Jul-07	11	A	13	11	11	9	7	4	3	2	1	1	1	1	1	1	1	1	2	3	4	2	3	6	4.3	12.9
24-Jul-07	A	6	5	7	6	4	4	3	2	2	1	1	1	1	1	1	1	1	1	2	1	1	1	A	2.5	6.7
25-Jul-07	4	3	2	2	3	3	3	3	2	2	C	C	C	C	C	A	5	4	3	4	5	5	9	10	4.0	9.9
26-Jul-07	10	8	8	A	9	8	7	4	4	4	2	1	1	1	1	1	1	1	1	1	3	3	2	3	3.7	9.5
27-Jul-07	4	3	A	4	5	5	4	3	3	2	2	1	1	1	1	1	1	1	2	2	3	5	7	12	3.2	12.3
28-Jul-07	7	A	10	9	9	8	9	5	4	3	2	2	2	1	1	1	1	1	1	3	2	1	1	2	3.7	9.8
29-Jul-07	A	5	3	2	3	3	2	2	2	1	1	1	1	1	1	1	1	1	1	3	2	3	2	A	1.9	4.7
30-Jul-07	3	2	2	2	3	2	2	2	1	1	1	1	1	1	0	0	0	1	1	1	1	2	A	5	1.5	5.2
31-Jul-07	3	2	3	3	4	4	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	A	4	3	1.8	4.4
Hourly Avg	8.1	7.1	7.3	7.2	7.5	6.7	5.5	3.8	3.0	2.3	1.8	1.7	1.6	1.6	1.5	1.5	1.7	1.8	2.3	3.4	4.6	5.9	7.1	8.1		
Hourly Max	21.6	18.3	13.8	17.6	18.1	13.2	9.0	6.5	4.9	4.0	4.3	4.8	4.6	3.7	3.4	3.5	4.8	4.0	5.3	6.8	14.8	19.3	20.1	20.4		

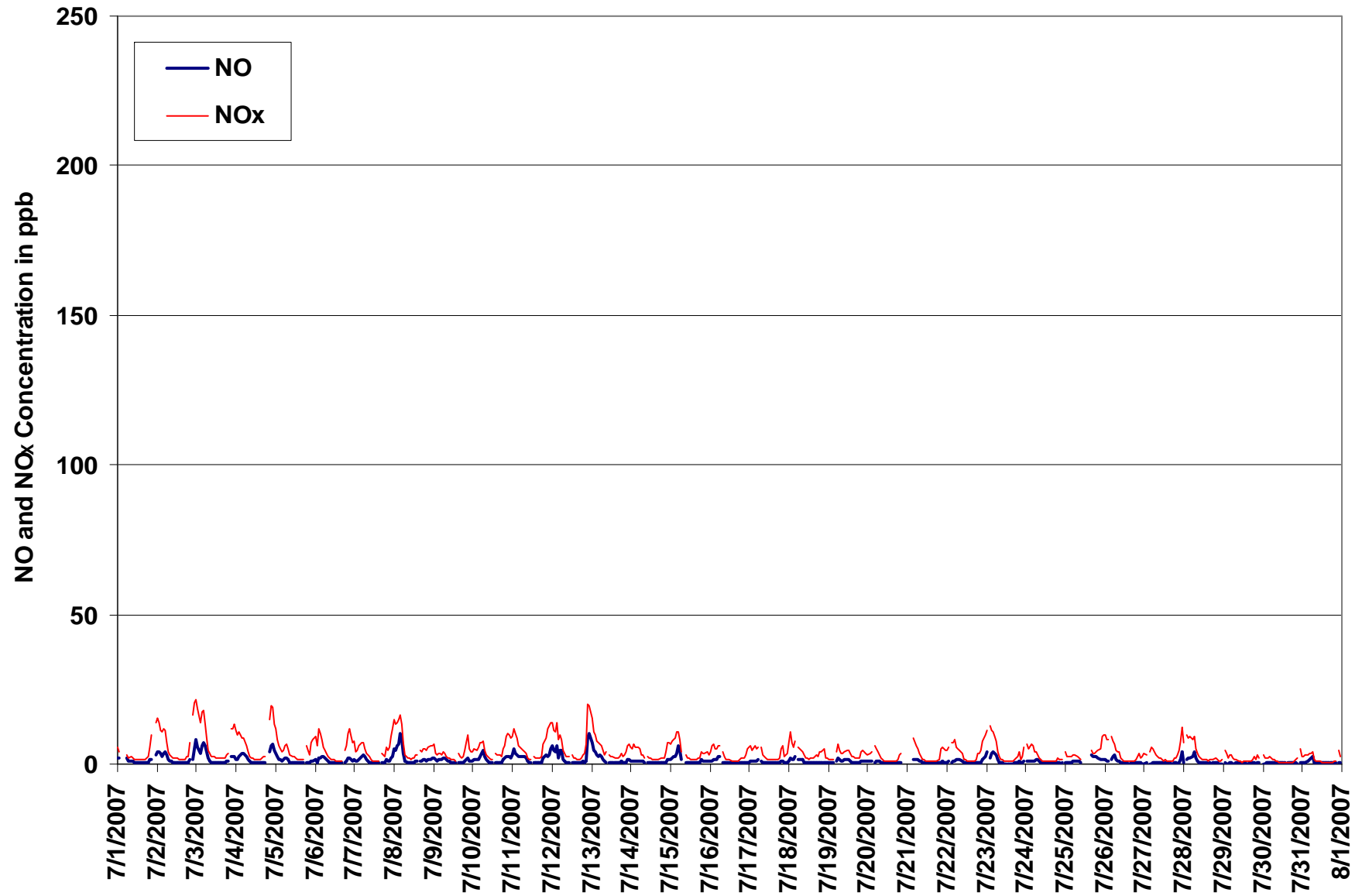


Figure 50. PASZA - Portable-Falher Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Portable-Falher
 Station Owner: PASZA

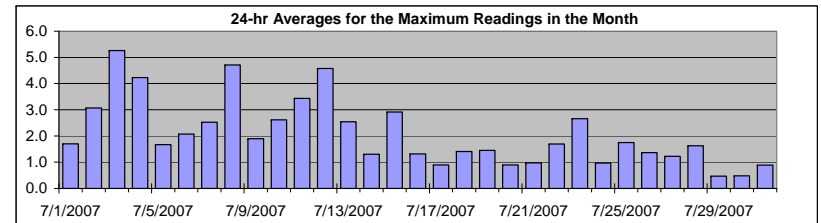
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	26.2	ppb	3-Jul	0:00 1:00
Maximum 24-hr Value:	5.3	ppb	3-Jul	



AIC Time:	33 hrs	Operational Time:	696 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	98.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	15.4	7.3	2.4	1.1	0.6	0.3	0.3	2.1 ppb	1.1 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	24:00		
1-Jul-07	2	3	N	N	N	N	4	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	4	A	5	1.7	4.6
2-Jul-07	6	6	5	4	4	6	4	3	2	1	1	1	1	1	1	1	1	1	1	1	3	A	4	16	3.1	16.1	
3-Jul-07	26	9	5	10	17	14	7	3	2	1	1	1	1	1	1	1	1	1	2	4	A	4	6	5	5.3	26.2	
4-Jul-07	4	3	9	5	4	4	5	2	1	1	1	1	1	0	1	1	1	1	2	A	15	17	10	8	4.2	16.5	
5-Jul-07	9	3	2	2	2	2	3	3	3	1	1	1	0	0	0	0	1	0	A	1	1	1	2	2	1.7	8.6	
6-Jul-07	4	2	5	5	3	3	3	2	1	1	1	0	1	0	0	0	0	A	1	2	4	4	4	2	2.1	5.2	
7-Jul-07	3	2	2	2	4	5	5	2	2	1	1	0	0	0	0	0	A	1	1	6	1	7	7	5	2.5	7.5	
8-Jul-07	10	16	14	11	13	11	10	1	1	1	1	1	1	2	2	A	1	2	2	2	2	2	2	2	4.7	15.6	
9-Jul-07	2	2	2	2	2	2	3	2	2	2	1	1	1	1	A	1	2	1	2	4	3	3	3	2	1.9	3.8	
10-Jul-07	2	3	2	5	5	5	5	5	2	1	1	1	1	A	1	1	2	1	3	3	3	3	3	3	2.6	5.5	
11-Jul-07	6	7	6	5	3	3	5	3	2	2	1	1	A	3	1	1	1	1	1	6	5	5	5	9	3.4	9.2	
12-Jul-07	9	8	9	9	4	6	7	5	1	1	1	A	1	0	2	0	1	1	1	2	1	3	18	15	4.6	17.5	
13-Jul-07	12	7	5	5	4	4	3	2	1	1	A	1	1	1	1	1	1	1	1	1	1	1	2	2	2.5	12.2	
14-Jul-07	2	1	2	1	1	2	2	1	1	A	0	0	5	0	1	0	0	0	0	1	1	1	2	2	4	1.3	4.6
15-Jul-07	4	6	5	11	9	7	7	3	A	1	0	0	1	1	1	1	1	1	1	5	1	1	1	1	2.9	11.2	
16-Jul-07	2	3	2	2	4	4	3	A	1	1	0	0	0	0	0	0	2	0	1	1	1	1	1	1	1.3	3.6	
17-Jul-07	1	2	1	1	2	2	A	2	1	1	0	0	0	0	0	0	0	0	1	1	2	1	1	1	0.9	2.2	
18-Jul-07	2	4	2	2	4	A	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.4	4.4	
19-Jul-07	1	1	0	1	A	2	3	2	2	2	2	2	3	2	1	1	1	1	2	1	1	1	1	1	1.4	2.7	
20-Jul-07	1	1	1	A	1	2	2	2	1	1	1	0	0	0	1	0	0	0	0	1	2	N	N	N	0.9	1.7	
21-Jul-07	N	N	N	A	3	2	2	2	1	1	0	0	0	0	0	0	0	0	0	1	2	1	1	1	1.0	3.0	
22-Jul-07	1	3	A	1	2	2	2	2	2	1	1	0	0	3	0	0	0	0	0	2	2	3	4	6	1.7	5.8	
23-Jul-07	7	A	4	5	6	6	5	2	1	1	0	0	0	0	0	0	0	1	1	1	17	1	1	1	2.7	17.2	
24-Jul-07	A	1	1	2	2	2	2	2	1	1	0	0	0	0	0	0	0	3	0	1	1	0	1	A	1.0	2.6	
25-Jul-07	0	0	0	1	1	1	3	2	1	1	C	C	C	C	C	A	3	3	3	4	2	2	2	2	1.7	4.2	
26-Jul-07	4	2	4	A	3	3	4	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	4.0	
27-Jul-07	0	1	A	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	0	2	8	9	1.2	8.7	
28-Jul-07	2	A	3	5	3	5	6	3	2	1	1	0	0	0	0	0	1	0	1	1	1	0	0	0	1.6	5.9	
29-Jul-07	A	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	A	0.5	1.2	
30-Jul-07	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	A	1	0.5	0.9	
31-Jul-07	1	1	1	1	2	2	3	2	1	0	0	0	0	0	0	0	0	2	0	0	0	A	0	0	0.9	3.0	
Hourly Avg	4.4	3.5	3.5	3.7	3.7	3.7	3.7	2.1	1.4	0.9	0.7	0.6	0.7	0.7	0.6	0.5	0.8	0.8	1.0	1.8	2.5	2.5	3.2	3.8			
Hourly Max	26.2	15.6	14.0	11.2	16.8	14.4	9.7	5.2	2.7	1.8	2.4	2.4	4.6	2.9	1.8	1.2	3.2	2.9	3.1	6.4	17.2	16.5	17.5	16.1			

Station: Portable-Falher
 Station Owner: PASZA

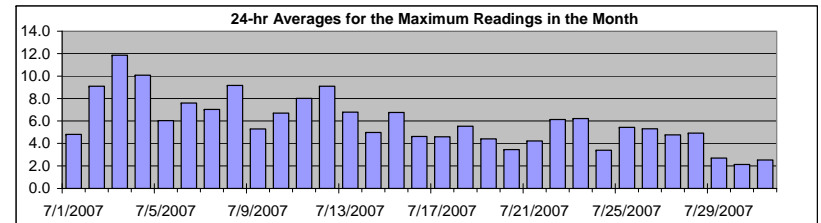
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	40.4	ppb	3-Jul	0:00 1:00
Maximum 24-hr Value:	11.9	ppb	3-Jul	



AIC Time:	33 hrs	Operational Time:	696 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	98.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	24.6	16.4	8.0	4.1	2.2	1.2	0.8	6.0 ppb	4.1 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	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-Jul-07	7	5	N	N	N	N	6	3	3	2	2	2	2	2	2	2	2	2	3	4	8	15	A	19	4.8	18.9	
2-Jul-07	18	16	15	13	14	14	9	6	4	3	3	2	2	2	2	2	3	2	4	3	15	A	24	32	9.1	31.8	
3-Jul-07	40	23	16	24	26	24	15	6	5	3	4	3	3	2	3	3	3	3	5	12	A	15	18	16	11.9	40.4	
4-Jul-07	14	14	17	12	10	10	10	5	3	3	2	2	2	2	3	2	4	4	6	A	32	31	23	18	10.1	32.3	
5-Jul-07	18	10	9	6	5	6	7	9	8	4	3	3	3	2	2	2	2	2	A	7	7	4	11	11	6.0	17.8	
6-Jul-07	14	8	19	17	12	7	6	4	3	2	2	2	2	1	1	2	1	A	7	9	17	14	13	11	7.6	19.0	
7-Jul-07	15	5	6	9	9	9	10	4	4	4	2	2	1	1	1	1	A	5	3	15	6	16	16	17	7.0	17.2	
8-Jul-07	19	21	21	18	20	16	15	4	3	2	2	3	3	5	5	A	8	5	7	7	6	7	7	7	9.2	21.2	
9-Jul-07	8	5	3	4	4	4	8	4	4	3	2	2	2	1	A	5	4	3	6	9	10	14	12	5	5.3	13.7	
10-Jul-07	5	7	7	9	9	8	9	8	4	3	3	2	2	A	5	4	5	4	8	7	13	12	11	10	6.7	13.3	
11-Jul-07	13	15	14	13	9	9	9	5	4	3	2	1	A	6	2	2	2	2	4	13	11	15	15	17	8.0	16.7	
12-Jul-07	17	14	15	16	11	11	12	10	4	3	3	A	4	3	4	2	2	2	2	6	6	12	27	25	9.1	26.9	
13-Jul-07	20	15	12	11	8	8	7	6	4	6	A	4	3	3	2	3	2	4	4	4	4	8	9	9	6.8	19.5	
14-Jul-07	7	6	8	7	7	7	6	4	3	A	4	2	5	2	2	2	2	2	2	4	3	4	8	11	11	5.0	11.2
15-Jul-07	10	13	11	20	18	12	11	6	A	5	3	2	2	2	2	2	2	3	3	10	5	4	5	4	6.8	19.9	
16-Jul-07	9	10	8	7	7	8	7	A	6	3	2	2	2	2	1	1	6	2	2	3	3	3	4	6	4.6	9.9	
17-Jul-07	6	8	7	9	7	7	A	8	4	4	2	2	2	2	2	2	2	2	3	6	8	4	4	5	4.6	8.9	
18-Jul-07	12	15	9	7	10	A	7	5	5	4	3	2	2	2	3	4	3	4	4	6	5	6	5	3	5.5	15.1	
19-Jul-07	2	2	2	2	A	6	8	6	5	4	6	6	6	6	3	3	3	2	5	3	6	6	5	5	4.4	8.1	
20-Jul-07	4	5	5	A	8	7	5	4	3	2	2	1	2	1	3	1	1	1	2	4	6	N	N	N	3.5	8.1	
21-Jul-07	N	N	N	A	13	9	8	6	3	2	2	1	1	1	1	1	1	1	2	2	7	7	8	6	4.2	13.4	
22-Jul-07	7	9	A	12	11	9	8	7	6	4	3	1	1	5	1	1	1	1	3	7	7	11	11	13	6.1	12.7	
23-Jul-07	12	A	14	13	13	12	10	5	4	2	2	1	2	2	1	1	1	1	2	3	4	25	3	8	6.2	24.6	
24-Jul-07	A	9	7	10	8	4	5	4	3	2	1	1	1	1	1	1	1	4	1	2	3	2	2	A	3.4	9.6	
25-Jul-07	6	3	3	3	3	4	5	3	3	2	C	C	C	C	C	A	6	5	4	8	6	9	12	13	5.4	12.9	
26-Jul-07	15	12	16	A	13	8	8	6	6	6	5	2	1	1	1	1	1	1	1	2	4	5	3	4	5.3	16.2	
27-Jul-07	5	5	A	6	7	7	5	4	3	2	2	2	2	2	2	1	1	2	3	3	4	10	16	16	4.8	16.4	
28-Jul-07	9	A	13	11	10	12	12	7	5	4	3	2	2	2	2	2	2	2	2	3	3	1	2	3	4.9	12.6	
29-Jul-07	A	7	6	3	4	4	4	2	2	1	1	1	1	1	2	2	1	1	1	2	4	3	5	3	A	2.7	7.0
30-Jul-07	5	2	2	3	4	2	3	2	2	1	1	1	1	1	1	1	1	1	1	1	2	3	A	9	2.1	8.7	
31-Jul-07	3	3	5	5	6	4	5	3	1	1	1	1	1	1	1	1	1	1	3	1	1	1	A	7	3	2.5	7.1
Hourly Avg	11.5	9.6	10.0	10.0	10.0	8.5	7.9	5.2	3.8	3.0	2.5	2.0	2.1	2.3	2.1	1.9	2.6	2.6	3.5	5.7	7.8	8.9	10.2	10.9			
Hourly Max	40.4	23.0	21.1	24.4	25.6	23.8	15.1	10.3	8.0	5.8	5.6	6.2	6.5	6.1	5.2	4.7	7.9	5.2	8.0	15.1	32.3	31.2	26.9	31.8			

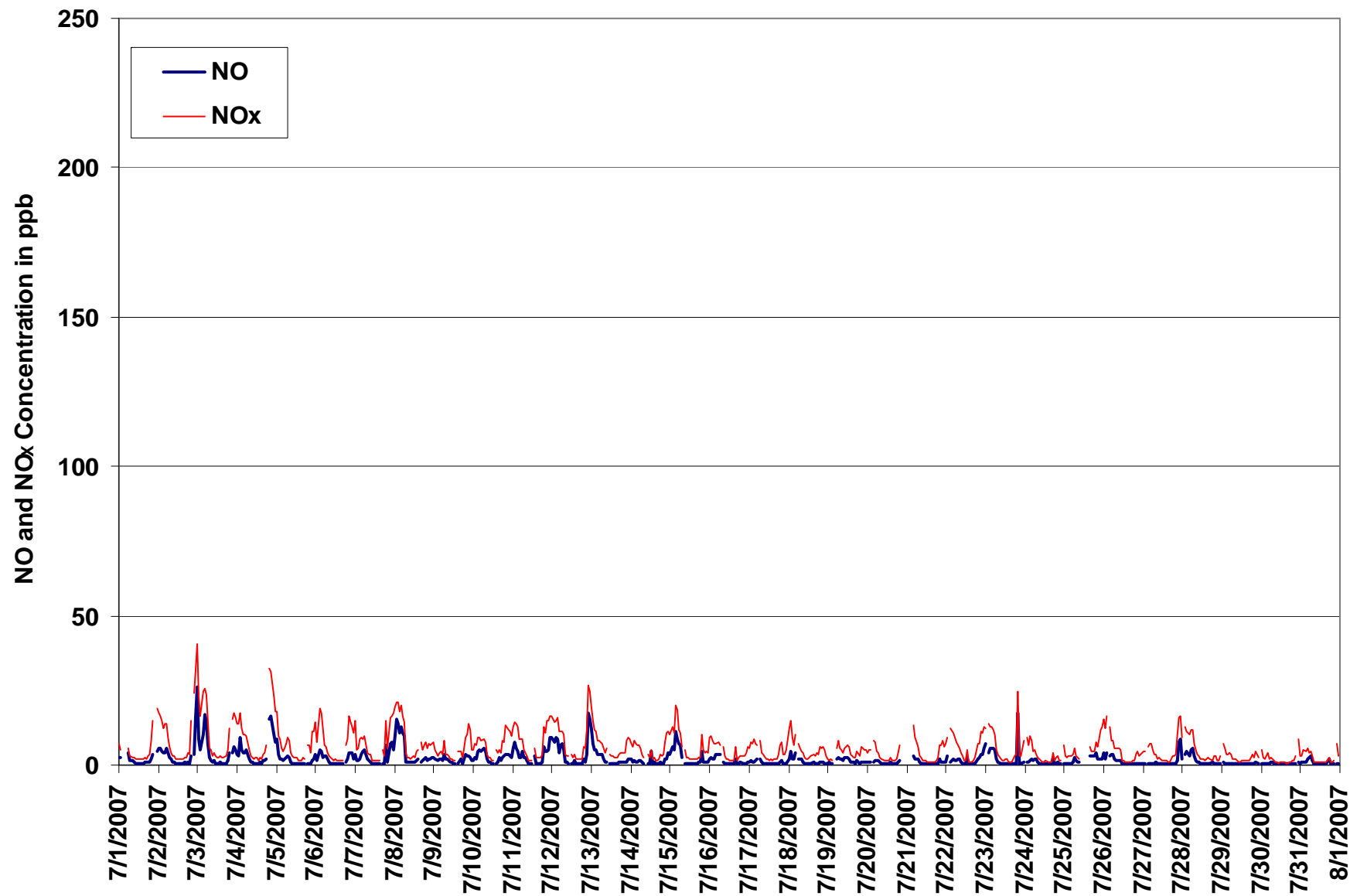


Figure 51. PASZA - Portable-Falher Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Portable-Falher Ozone Monthly Summary

HOURLY AVERAGE TABLE

Ozone (O₃)

Station: Portable-Falher
 Station Owner: PASZA

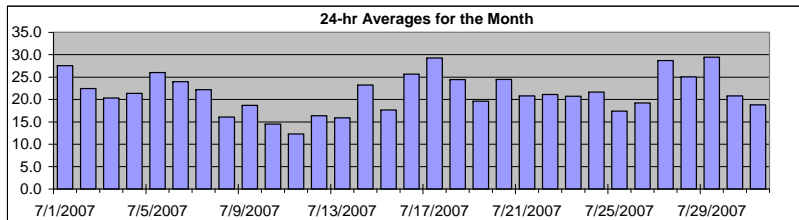
Monitoring Dates: July 1, 2007 to August 1, 2007

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

Summary

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	49.3	ppb	17-Jul	15:00 16:00
Maximum 24-hr Average:	29.5	ppb	29-Jul	

AIC Time:	32 hrs	Operational Time:	705 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	44.9	35.9	29.6	22.0	13.9	4.1	1.9	21.4 ppb	22.0 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-Jul-07	26	26	N	N	N	N	26	26	27	28	30	30	31	31	32	33	34	34	34	30	22	16	A	12	27.5	33.7	
2-Jul-07	8	10	13	11	9	10	15	22	25	28	30	32	32	32	33	34	35	35	32	31	20	A	13	7	22.5	35.0	
3-Jul-07	5	5	9	6	5	8	11	23	25	28	29	30	33	34	32	34	34	32	28	26	A	11	10	9	20.3	33.9	
4-Jul-07	9	11	11	8	8	10	16	22	25	28	30	31	32	34	34	34	36	36	37	A	17	9	5	8	21.4	37.2	
5-Jul-07	9	13	14	14	16	17	16	20	27	29	31	34	36	34	34	36	37	38	A	26	32	38	26	22	26.0	37.8	
6-Jul-07	19	21	15	14	18	23	24	26	29	30	31	32	33	34	35	35	36	A	28	20	13	11	11	12	24.0	35.7	
7-Jul-07	12	16	15	14	13	14	18	23	25	28	30	32	32	34	34	35	A	33	30	24	19	16	8	5	22.2	34.5	
8-Jul-07	3	4	3	3	2	4	11	20	22	24	24	22	25	24	27	A	26	25	24	19	18	14	13	14	16.1	26.6	
9-Jul-07	11	23	22	19	19	20	14	13	16	18	19	23	24	23	A	24	25	26	26	19	14	10	12	12	18.7	26.1	
10-Jul-07	12	10	10	8	5	5	7	12	18	21	23	24	25	A	23	22	25	24	16	13	8	6	8	8	14.5	25.4	
11-Jul-07	6	3	4	5	6	8	8	9	13	18	19	20	A	21	22	23	21	20	20	14	10	7	4	3	12.3	22.5	
12-Jul-07	2	3	3	2	7	6	8	17	22	26	31	A	32	31	29	25	24	24	23	20	22	16	2	1	16.3	31.8	
13-Jul-07	1	3	3	5	6	6	11	19	23	30	A	33	34	31	28	26	25	19	9	13	15	12	8	7	15.9	33.6	
14-Jul-07	11	17	17	18	16	16	19	20	24	A	29	33	34	35	34	34	32	29	25	24	26	19	11	11	23.2	34.8	
15-Jul-07	9	8	7	4	3	2	6	18	A	28	31	33	31	27	22	23	23	20	23	18	15	18	14	20	17.6	33.1	
16-Jul-07	19	15	14	15	15	11	12	A	30	33	33	32	33	34	33	31	32	34	27	23	32	34	28	22	25.7	33.6	
17-Jul-07	20	17	23	18	15	12	A	23	31	35	37	39	36	38	44	49	45	38	26	15	12	34	35	30	29.2	49.3	
18-Jul-07	18	10	14	12	7	A	8	10	21	28	34	37	38	35	33	32	28	35	36	27	26	22	28	25	24.5	38.1	
19-Jul-07	22	25	22	19	A	13	8	12	17	15	10	9	15	20	24	26	25	23	25	31	22	22	23	23	19.6	31.3	
20-Jul-07	20	20	20	A	19	14	18	23	25	28	29	31	33	34	34	34	35	34	31	25	21	22	9	5	24.5	34.8	
21-Jul-07	5	6	7	A	7	12	14	20	25	28	29	31	32	31	30	30	30	29	27	25	15	14	16	15	20.8	31.8	
22-Jul-07	15	10	A	17	13	11	10	11	14	24	35	36	36	34	31	31	31	30	30	21	20	16	7	3	21.1	36.2	
23-Jul-07	1	A	4	1	0	2	4	11	25	28	31	35	35	34	34	33	32	29	24	18	19	31	27	18	20.7	35.0	
24-Jul-07	A	18	16	10	10	14	14	18	23	26	28	29	29	30	29	26	24	24	24	19	22	22	21	A	21.6	30.0	
25-Jul-07	19	18	17	14	13	11	13	16	18	20	22	23	25	25	26	26	C	C	C	18	15	15	5	4	17.4	26.5	
26-Jul-07	2	5	4	A	3	4	7	14	18	22	22	22	26	29	29	33	33	32	32	31	26	19	15	19	17	19.2	33.3
27-Jul-07	17	21	A	28	19	13	17	19	25	29	29	33	40	41	46	48	49	46	37	31	28	24	17	3	28.7	49.2	
28-Jul-07	7	A	4	4	2	4	4	8	13	23	27	32	36	43	48	46	43	45	41	30	29	30	32	28	25.1	47.8	
29-Jul-07	A	24	24	25	24	24	29	26	28	31	33	34	35	39	40	40	40	37	31	23	25	16	19	A	29.5	40.0	
30-Jul-07	22	22	23	19	13	12	14	16	19	23	25	25	26	27	27	27	26	24	22	21	19	15	A	12	20.8	26.9	
31-Jul-07	16	18	15	14	16	16	17	20	20	20	19	19	18	20	19	19	18	19	19	22	25	A	22	21	18.8	24.8	
Hourly Avg	11.9	13.9	12.6	12.1	10.7	11.1	13.4	17.8	22.4	26.0	27.7	29.3	30.9	31.3	31.7	31.6	31.1	30.1	27.1	22.4	19.9	18.4	15.7	13.0			
Hourly Max	25.8	26.0	24.3	28.5	24.1	23.7	28.8	25.8	30.7	35.2	36.7	38.5	39.8	43.3	47.8	49.3	49.2	46.3	41.4	31.3	31.8	37.8	35.3	30.1			

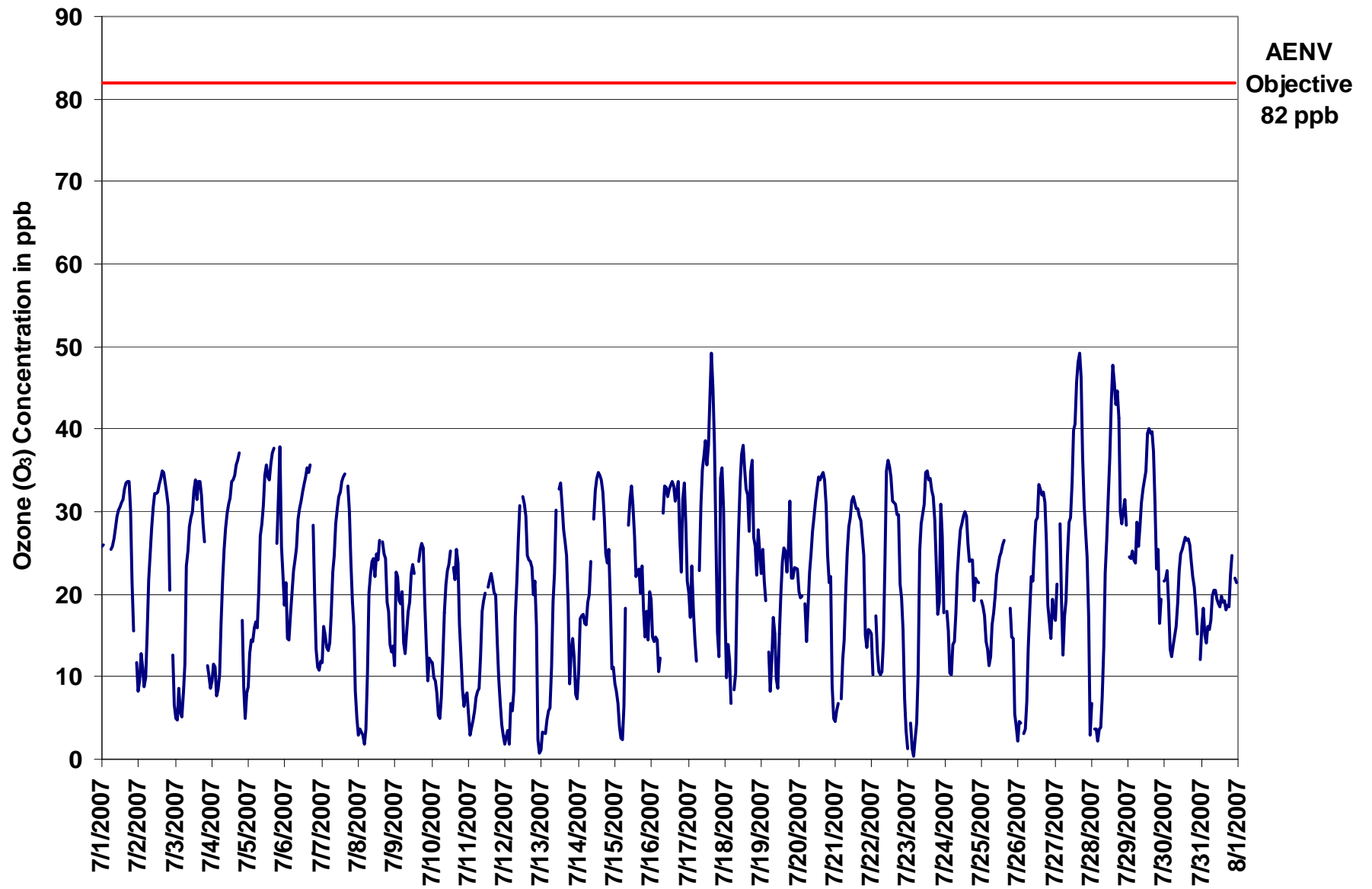


Figure 52. PASZA - Portable-Falher Ozone 1-hr Average Monthly Trend

Station: Portable-Falher
 Station Owner: PASZA

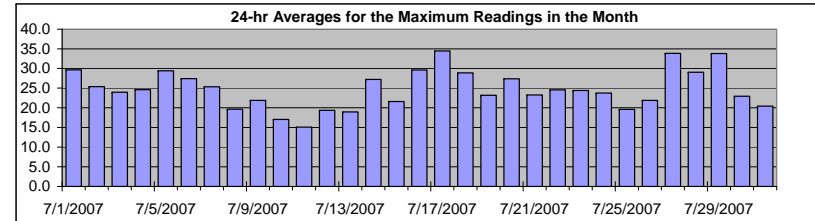
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	53.4	ppb	17-Jul	15:00 16:00
Maximum 24-hr Value:	34.5	ppb	17-Jul	



AIC Time:	32 hrs	Operational Time:	705 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	49.9	39.6	32.8	25.1	17.6	7.1	4.0	24.7 ppb	25.1 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	24:00		
1-Jul-07	27	27	N	N	N	N	27	27	28	29	31	31	32	32	33	35	35	35	35	35	35	28	21	A	15	29.6	35.5
2-Jul-07	12	12	17	14	10	13	18	25	28	30	32	34	34	34	35	36	37	37	34	33	28	A	20	11	25.4	37.4	
3-Jul-07	11	9	13	9	8	11	17	29	28	32	32	33	34	37	35	36	37	35	33	32	A	14	13	11	23.9	36.9	
4-Jul-07	14	15	15	9	10	14	21	26	27	30	32	33	34	35	36	36	38	38	40	A	27	19	7	11	24.6	40.2	
5-Jul-07	12	15	17	16	19	19	18	27	31	31	33	38	39	37	36	38	40	41	A	29	38	41	36	26	29.4	41.2	
6-Jul-07	25	24	24	18	21	24	27	29	32	32	33	34	35	37	38	37	38	A	35	24	20	16	13	14	27.4	38.5	
7-Jul-07	15	17	17	20	17	21	23	24	27	31	33	33	34	35	36	36	A	35	33	29	21	20	13	11	25.4	36.2	
8-Jul-07	7	10	7	8	2	5	19	22	24	26	26	25	27	32	33	A	29	28	28	28	22	21	19	14	17	19.6	32.9
9-Jul-07	17	26	25	21	21	23	21	14	19	22	23	24	26	25	A	26	28	28	28	28	24	20	13	16	14	21.9	27.9
10-Jul-07	13	12	11	10	9	7	10	16	20	23	25	25	27	A	26	25	28	28	20	15	13	9	9	9	17.1	28.1	
11-Jul-07	7	4	7	11	8	9	9	10	16	20	21	21	A	22	24	25	24	23	23	24	13	12	6	6	15.1	25.1	
12-Jul-07	4	4	5	4	8	7	11	20	24	30	34	A	35	33	33	27	26	26	26	26	24	24	11	1	19.3	35.1	
13-Jul-07	2	6	5	6	8	8	15	23	28	35	A	37	36	35	30	31	28	25	11	15	16	15	11	10	19.0	36.8	
14-Jul-07	15	22	24	23	19	19	21	24	28	A	32	35	38	39	37	37	37	34	30	29	29	23	17	14	27.2	39.1	
15-Jul-07	14	14	10	10	5	4	10	23	A	32	34	36	34	31	25	28	29	24	27	23	19	21	18	23	21.6	35.8	
16-Jul-07	24	19	18	19	20	19	19	A	35	36	34	33	36	35	35	34	34	36	33	30	34	37	32	29	29.6	36.8	
17-Jul-07	23	22	28	22	16	14	A	27	36	38	41	42	40	46	50	53	51	46	32	19	33	41	38	35	34.5	53.4	
18-Jul-07	27	22	17	16	9	A	10	16	27	31	38	40	41	38	37	38	35	39	39	30	28	25	30	29	28.9	41.0	
19-Jul-07	24	31	23	22	A	16	10	16	20	19	14	11	20	23	28	28	28	26	32	34	31	25	26	26	23.2	33.8	
20-Jul-07	21	22	21	A	24	16	22	25	27	29	32	34	34	36	35	36	36	36	34	27	26	27	19	7	27.4	36.1	
21-Jul-07	6	7	9	A	9	14	18	25	28	30	32	33	33	33	32	32	31	30	29	28	22	17	19	18	23.3	33.3	
22-Jul-07	17	15	A	20	18	13	13	14	19	33	39	38	38	37	33	33	32	32	34	27	25	20	10	7	24.6	39.0	
23-Jul-07	4	A	8	4	1	5	9	20	29	31	34	37	37	36	36	35	35	34	27	21	28	37	33	24	24.4	37.0	
24-Jul-07	A	21	17	16	14	15	16	20	25	28	29	30	31	31	31	29	26	26	26	21	24	24	23	A	23.8	31.1	
25-Jul-07	21	19	19	16	15	13	16	18	19	22	25	25	26	26	27	28	C	C	C	25	17	18	13	7	19.6	27.6	
26-Jul-07	5	7	8	A	5	5	10	17	22	25	25	29	31	31	36	35	34	34	33	29	21	19	21	21	21.9	36.3	
27-Jul-07	20	31	A	32	23	19	21	22	31	33	33	40	43	43	49	51	52	51	41	38	33	33	32	6	33.8	51.6	
28-Jul-07	11	A	10	7	5	6	7	10	25	26	32	37	40	50	50	48	46	47	47	36	31	31	33	32	29.0	50.4	
29-Jul-07	A	29	28	29	32	30	44	28	30	35	35	36	38	44	42	42	41	40	36	30	31	20	23	A	33.8	43.7	
30-Jul-07	24	25	24	23	16	14	17	18	22	25	27	27	27	29	28	28	28	26	24	23	20	18	A	15	22.9	28.8	
31-Jul-07	18	20	18	17	18	16	19	21	21	21	21	20	20	20	20	20	19	20	22	24	27	A	23	23	20.4	26.9	
Hourly Avg	15.2	17.5	15.9	15.7	13.5	13.8	17.2	21.2	25.9	28.8	30.4	31.7	33.3	34.1	34.2	34.1	33.8	33.1	30.8	26.8	25.0	22.7	20.0	16.4			
Hourly Max	27.1	31.0	28.1	32.0	31.5	30.4	43.7	28.9	35.6	38.1	41.4	42.1	42.5	50.1	50.4	53.4	51.6	51.1	46.9	38.1	38.2	40.7	38.1	34.6			

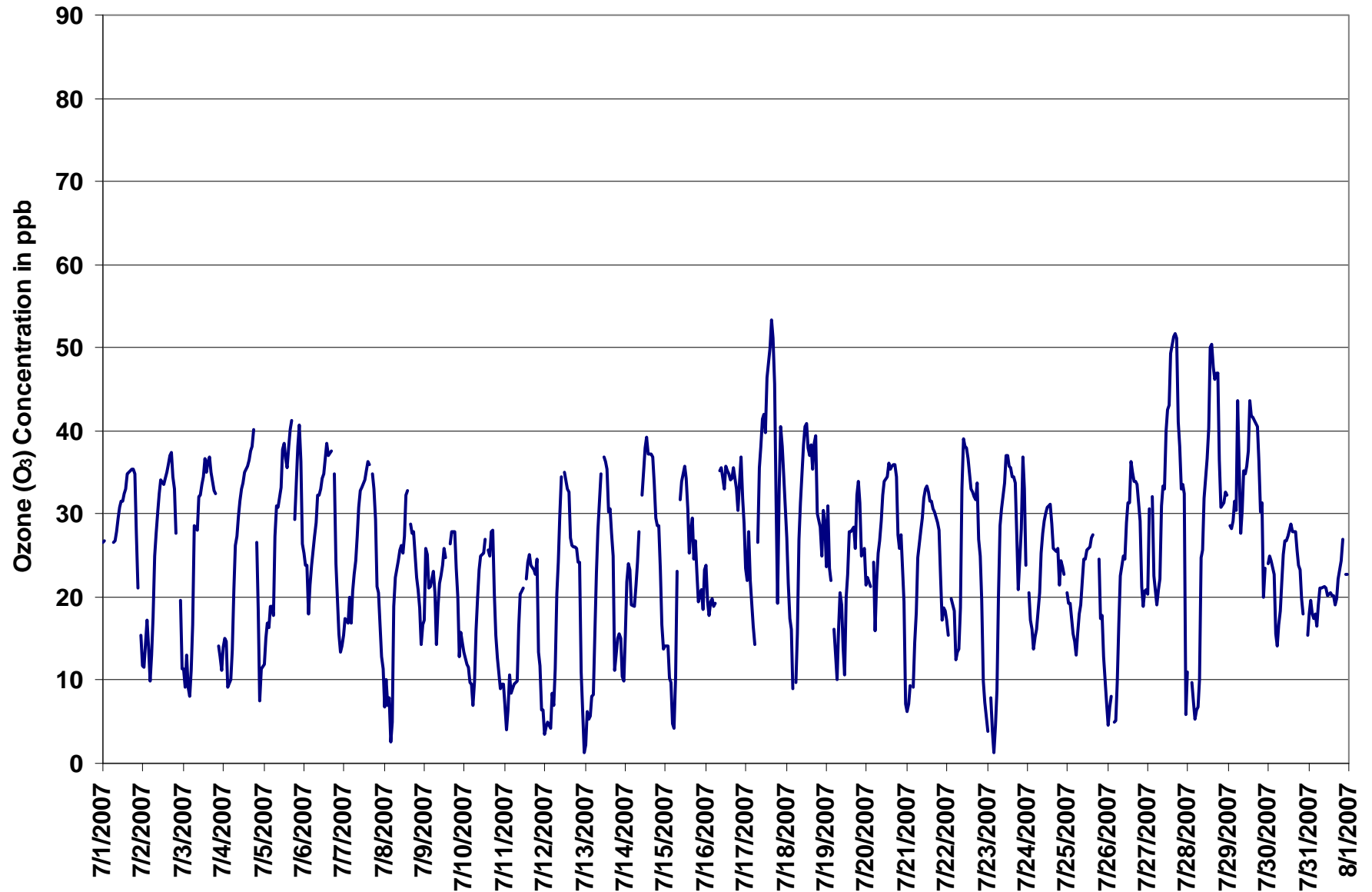
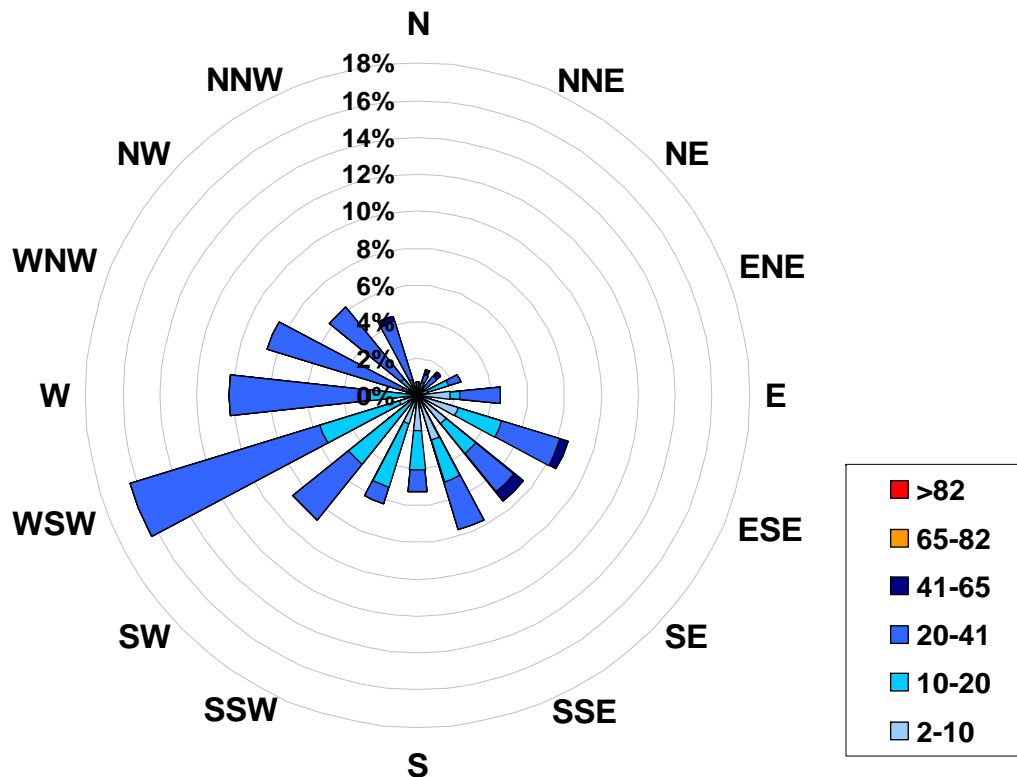


Figure 53. PASZA - Portable-Falher Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of O ₃ in ppb			
Range		Frequency (hrs)	
2.0	< 10	111	
10	to 20	201	
20	to 41	380	
41	to 65	13	
65	to 82	0	
	> 82	0	
Total Non-Zero Values			705

PASZA - Portable-Falher Ozone Eight Hour Average Summary

Station: Portable-Falher
 Station Owner: PASZA

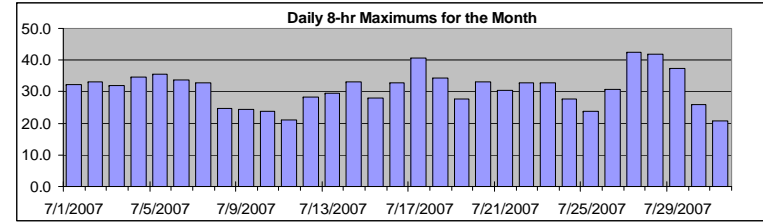
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	42.5	ppb	27-Jul	18:00	19:00		



Percentile	99	95	75	50	25	5	1
	40.5	33.9	27.7	21.1	15.5	6.9	3.9

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																								Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Hour End	
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-Jul-07	24	25	25	N	N	N	N	N	N	N	N	N	28	28	29	30	31	32	32	32	31	29	29	26	32.1	
2-Jul-07	22	19	16	13	11	10	11	12	14	17	19	21	24	27	29	31	32	33	33	33	32	31	28	25	33.2	
3-Jul-07	20	16	13	9	7	7	7	9	12	14	17	20	24	27	29	31	32	32	32	31	31	28	25	21	32.1	
4-Jul-07	18	15	13	10	10	10	10	12	14	16	18	21	24	27	29	31	32	33	34	35	33	29	25	21	34.7	
5-Jul-07	17	14	11	11	11	12	13	15	17	19	21	24	26	28	31	33	34	35	36	34	34	34	33	31	35.5	
6-Jul-07	29	26	25	23	22	20	19	20	21	22	24	27	29	30	31	33	33	34	33	32	29	26	22	19	33.9	
7-Jul-07	15	15	14	13	13	13	14	16	17	19	21	23	25	28	30	31	32	33	33	32	30	27	24	19	32.9	
8-Jul-07	17	14	10	8	5	4	4	6	9	11	14	16	19	22	24	24	25	25	25	24	23	22	20	19	24.8	
9-Jul-07	17	17	17	17	17	18	18	18	18	18	17	18	18	19	19	21	22	23	24	24	22	20	19	18	24.3	
10-Jul-07	16	14	12	11	10	9	9	9	9	11	12	14	17	19	21	22	23	24	23	21	19	17	15	14	23.7	
11-Jul-07	11	8	7	6	6	6	6	6	7	9	11	13	13	15	17	19	21	21	21	20	19	17	15	12	21.0	
12-Jul-07	10	8	6	4	4	4	4	6	8	11	15	17	20	24	27	28	28	28	27	26	25	23	20	17	28.3	
13-Jul-07	14	11	9	7	5	3	5	7	9	13	14	18	22	26	28	29	29	28	25	23	21	18	16	13	29.5	
14-Jul-07	12	11	13	13	13	14	15	17	18	19	20	23	25	28	30	32	33	33	32	31	30	28	25	22	33.0	
15-Jul-07	19	17	14	12	9	7	6	7	7	10	13	18	22	25	27	28	27	26	25	23	21	20	19	19	27.9	
16-Jul-07	19	18	17	16	16	15	15	14	16	18	21	24	26	29	32	32	33	33	32	31	31	31	30	29	32.7	
17-Jul-07	27	25	25	24	22	19	18	18	20	22	24	27	30	34	35	38	40	41	39	36	34	33	32	30	40.7	
18-Jul-07	26	23	21	21	20	18	14	11	12	14	17	21	25	26	29	32	33	34	34	33	31	30	29	28	34.2	
19-Jul-07	28	26	25	24	23	22	19	17	17	15	13	12	12	13	15	17	18	19	21	24	24	25	24	24	27.7	
20-Jul-07	24	23	23	21	21	20	19	19	20	21	22	23	25	28	30	31	32	33	33	33	32	31	29	26	23	33.2
21-Jul-07	19	15	12	11	9	7	8	10	13	16	20	21	24	26	28	30	30	30	30	29	27	25	23	21	30.3	
22-Jul-07	19	17	16	15	14	14	13	12	12	14	17	19	22	25	28	30	32	33	32	30	28	26	23	20	32.9	
23-Jul-07	16	14	10	8	5	3	3	4	7	10	13	17	21	25	29	32	33	33	32	30	28	27	26	25	32.7	
24-Jul-07	24	22	21	20	19	16	14	14	15	16	18	20	23	25	26	27	28	27	27	26	25	24	23	22	27.6	
25-Jul-07	22	21	20	19	18	16	15	15	15	15	16	17	18	20	22	23	24	N	N	N	N	N	N	N	23.9	
26-Jul-07	N	9	9	7	5	4	4	5	8	10	13	14	18	21	24	26	28	29	31	31	29	28	26	24	30.7	
27-Jul-07	22	21	19	20	20	19	19	19	20	21	22	23	26	29	33	36	39	42	42	42	41	39	35	29	42.5	
28-Jul-07	24	21	16	12	9	6	4	4	5	8	10	14	18	23	29	33	37	40	42	42	41	39	37	35	41.7	
29-Jul-07	34	31	28	28	27	26	26	25	26	26	27	29	30	32	33	35	36	37	37	36	34	32	29	27	37.2	
30-Jul-07	25	23	22	21	19	19	18	18	17	17	18	18	20	22	24	25	26	26	26	25	24	23	22	20	25.8	
31-Jul-07	18	18	17	16	15	15	16	16	17	17	18	18	19	19	19	19	19	19	19	19	20	20	20	21	20.8	

Hourly Max 33.5 30.6 28.2 27.5 26.9 26.0 25.6 25.2 25.6 26.4 27.5 28.5 30.2 34.0 35.2 38.5 40.3 41.6 42.5 42.1 40.6 38.9 36.9 34.7

PASZA - Portable-Falher Total Reduced Sulphur Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

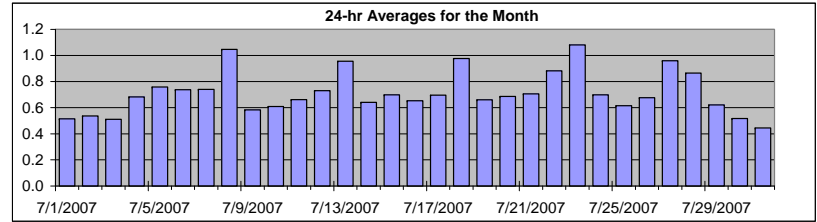
Monitoring Dates: July 1, 2007 to August 1, 2007

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

Summary
 Maximum 1-hr Average: 4.6 ppb 8-Jul 6:00 7:00
 Maximum 24-hr Value: 1.1 ppb 23-Jul

AIC Time: 33 hrs Operational Time: 704 hrs
 Calibration Time: 3 hrs AMD Operational Uptime: 99.5%

Percentile	99	95	75	50	25	5	1	Average	Median
	2.2	1.4	0.8	0.6	0.5	0.4	0.3	0.7 ppb	0.6 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-Jul-07	1	1	N	N	N	N	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	1	1	A	1	0.5	0.7
2-Jul-07	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	A	1	1	0.5	0.9
3-Jul-07	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	1	0.5	1.1
4-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.7	1.1
5-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.8	1.4
6-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	A	1	1	1	1	1	1	0.7	1.2
7-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.7	1.1
8-Jul-07	1	1	1	1	1	3	5	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1.0	4.6
9-Jul-07	1	1	1	1	1	1	1	1	1	1	0	0	0	0	A	0	0	0	0	0	1	1	1	1	1	0.6	0.8
10-Jul-07	1	1	1	1	1	1	1	1	1	1	0	0	0	A	0	1	0	1	1	1	1	1	1	1	1	0.6	0.8
11-Jul-07	1	1	1	1	1	1	1	1	1	1	0	1	A	1	1	0	1	1	1	1	1	1	1	1	1	0.7	1.0
12-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0	1	1	1	1	1	1	1	1	0.7	1.2
13-Jul-07	1	1	1	2	2	2	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.9
14-Jul-07	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	0.6	0.8
15-Jul-07	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1
16-Jul-07	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	1	1	0.7	1.2
17-Jul-07	1	1	1	1	1	1	A	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1
18-Jul-07	2	3	2	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.6
19-Jul-07	1	0	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0.7	1.0
20-Jul-07	1	1	1	A	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	2	1	0.7	1.5
21-Jul-07	2	1	1	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0.7	1.7
22-Jul-07	1	1	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	2	3	0.9	2.6
23-Jul-07	2	A	2	3	2	3	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1.1	3.4
24-Jul-07	A	1	1	2	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	A	0.7	1.6	
25-Jul-07	1	1	1	1	1	1	1	1	1	1	1	0	0	0	C	C	C	A	0	0	1	1	1	1	0.6	1.2	
26-Jul-07	1	1	1	A	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0	1	1	1	1	1	0.7	1.1
27-Jul-07	1	1	A	1	2	2	2	2	2	2	1	1	1	1	1	1	0	0	1	1	1	1	1	2	1.0	1.8	
28-Jul-07	2	A	2	2	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0.9	2.0
29-Jul-07	A	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	A	0.6	1.0	
30-Jul-07	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0.5	1.3
31-Jul-07	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.4	0.7
Hourly Avg	0.9	0.9	0.9	0.9	1.0	1.1	1.0	0.8	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.8	0.9		
Hourly Max	2.2	2.6	2.1	2.5	2.4	3.4	4.6	1.8	1.5	1.0	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.2	1.1	1.1	1.0	2.2	2.6		

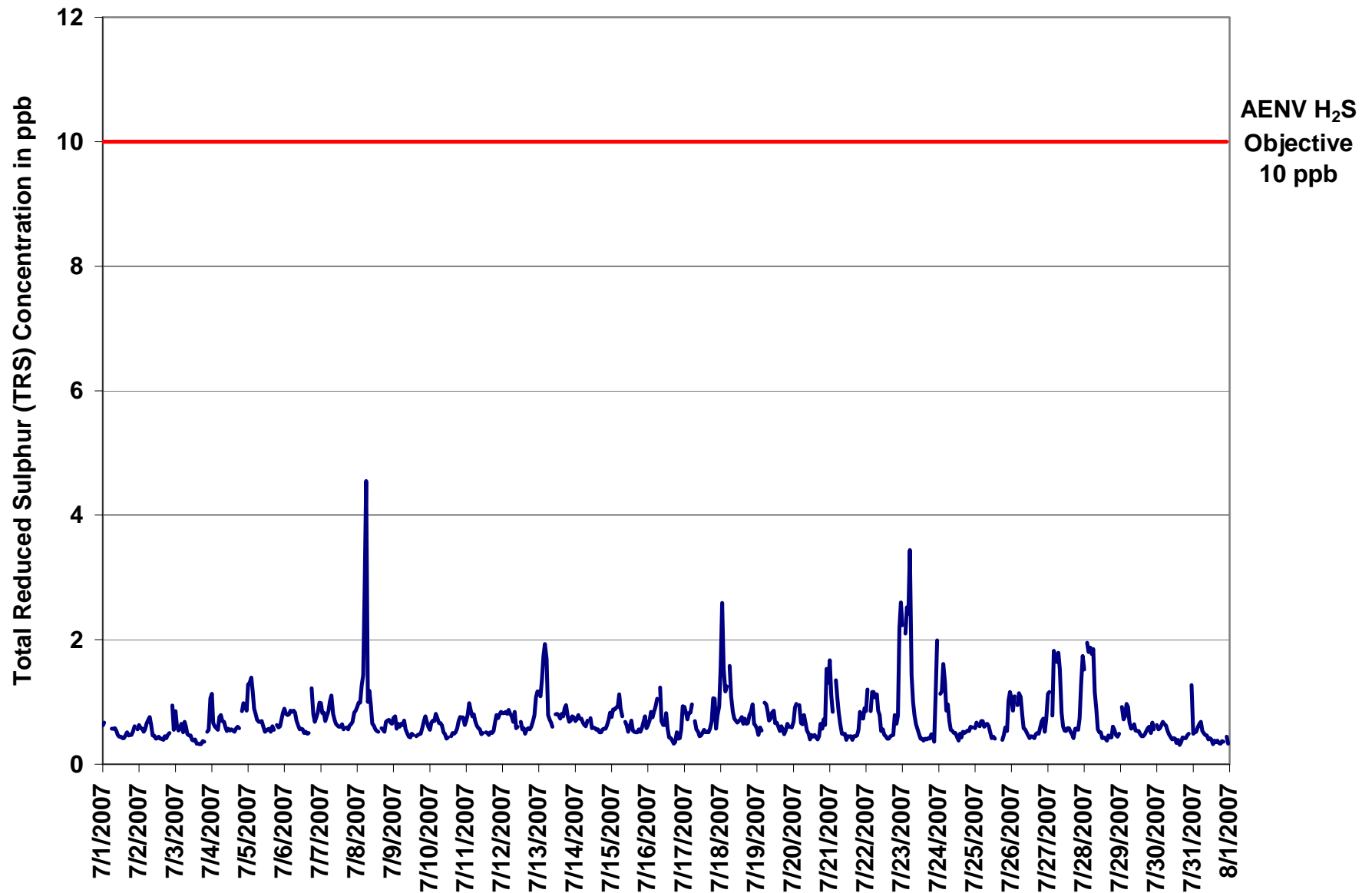


Figure 54. PASZA - Portable-Falher Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Portable-Falher
 Station Owner: PASZA

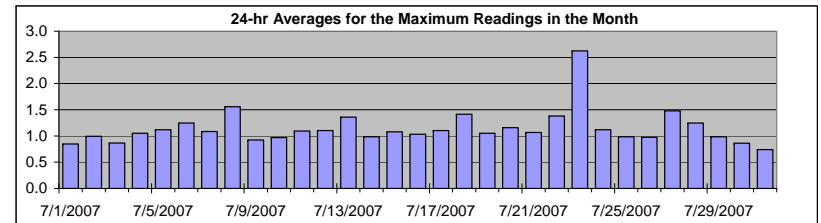
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	27.1	ppb	23-Jul	5:00 6:00
Maximum 24-hr Value:	2.6	ppb	23-Jul	



AIC Time:	33 hrs	Operational Time:	704 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.4	2.2	1.2	1.0	0.8	0.7	0.6	1.1 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	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-Jul-07	1	1	N	N	N	N	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	1.1
2-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	4	1	1.0	3.8
3-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	2	0.9	1.6
4-Jul-07	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1.1	1.7
5-Jul-07	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1.1	1.8
6-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	5	1	1	1	1	1	1	1.2	4.8
7-Jul-07	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1.1	1.5
8-Jul-07	1	1	1	2	2	4	7	2	2	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1.6	7.0
9-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	A	1	1	1	1	1	1	1	1	1	0.9	1.3
10-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1.0	1.2
11-Jul-07	1	1	2	2	2	2	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.9
12-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	2	2	2	1.1	1.5
13-Jul-07	2	1	2	2	2	3	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1.4	2.6
14-Jul-07	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.3
15-Jul-07	1	1	1	1	1	2	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.5
16-Jul-07	1	1	1	1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.9
17-Jul-07	1	2	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1.1	1.6
18-Jul-07	3	3	2	2	2	A	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.4	3.5
19-Jul-07	1	1	1	1	A	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.8
20-Jul-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	3	2	1.2	3.1
21-Jul-07	2	2	1	A	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.1
22-Jul-07	1	2	A	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	3	1.4	3.5
23-Jul-07	3	A	3	3	3	27	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	2.6	27.1
24-Jul-07	A	2	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.1	2.5
25-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	C	C	C	A	1	1	1	1	2	2	1.0	1.9	
26-Jul-07	1	1	1	A	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.6
27-Jul-07	2	2	A	1	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	3	1.5	3.1
28-Jul-07	2	A	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	2.5
29-Jul-07	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.0	1.5
30-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	3	0.9	2.7	
31-Jul-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.7	1.0
Hourly Avg	1.4	1.3	1.4	1.4	1.5	2.3	1.5	1.2	1.1	1.0	0.9	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.1	1.4	1.4		
Hourly Max	3.4	3.5	3.2	3.1	3.1	27.1	7.0	2.2	2.0	1.4	1.2	1.2	1.2	1.2	1.1	1.3	1.2	1.2	4.8	1.5	1.4	2.2	3.8	3.5			

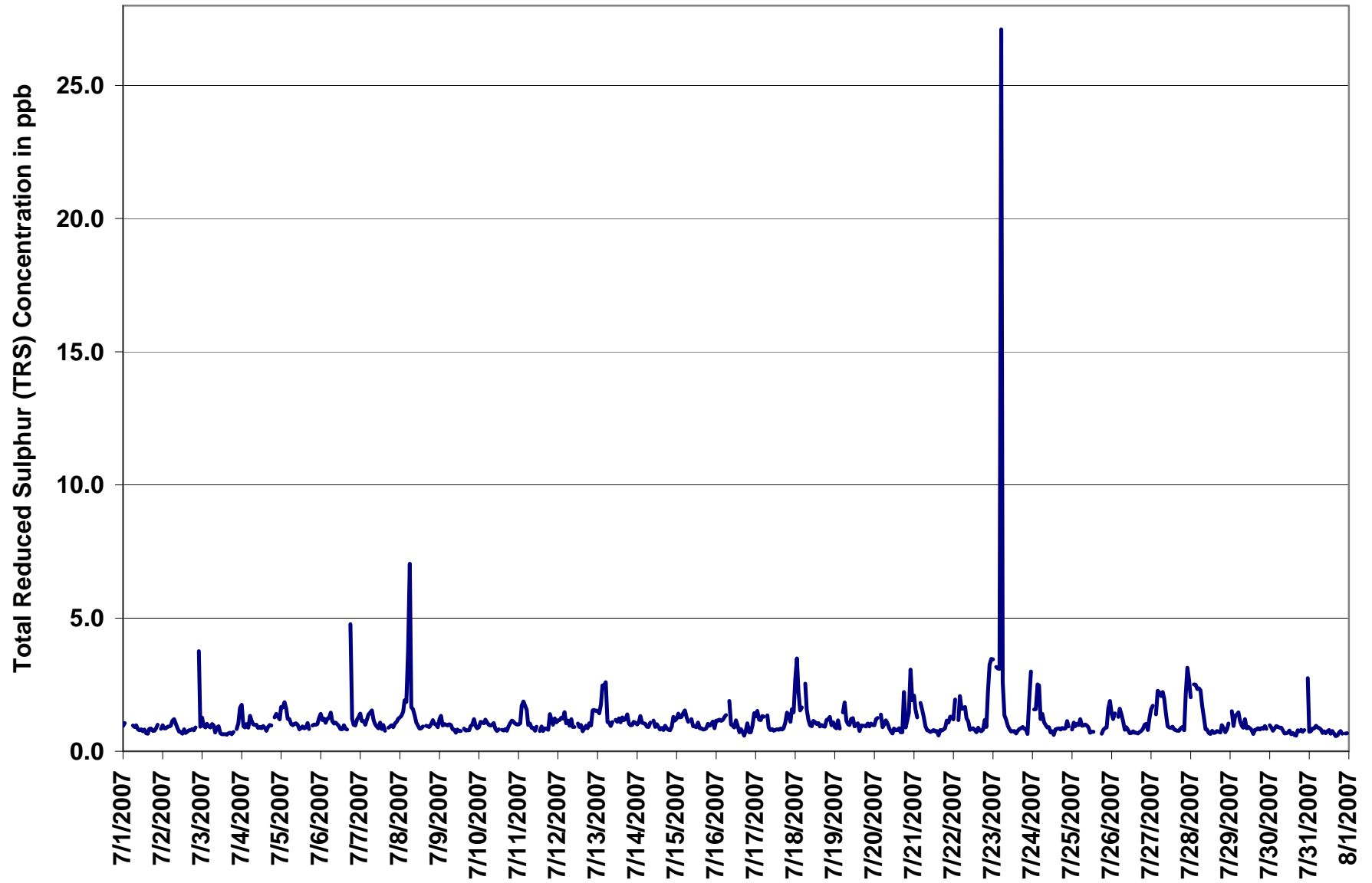
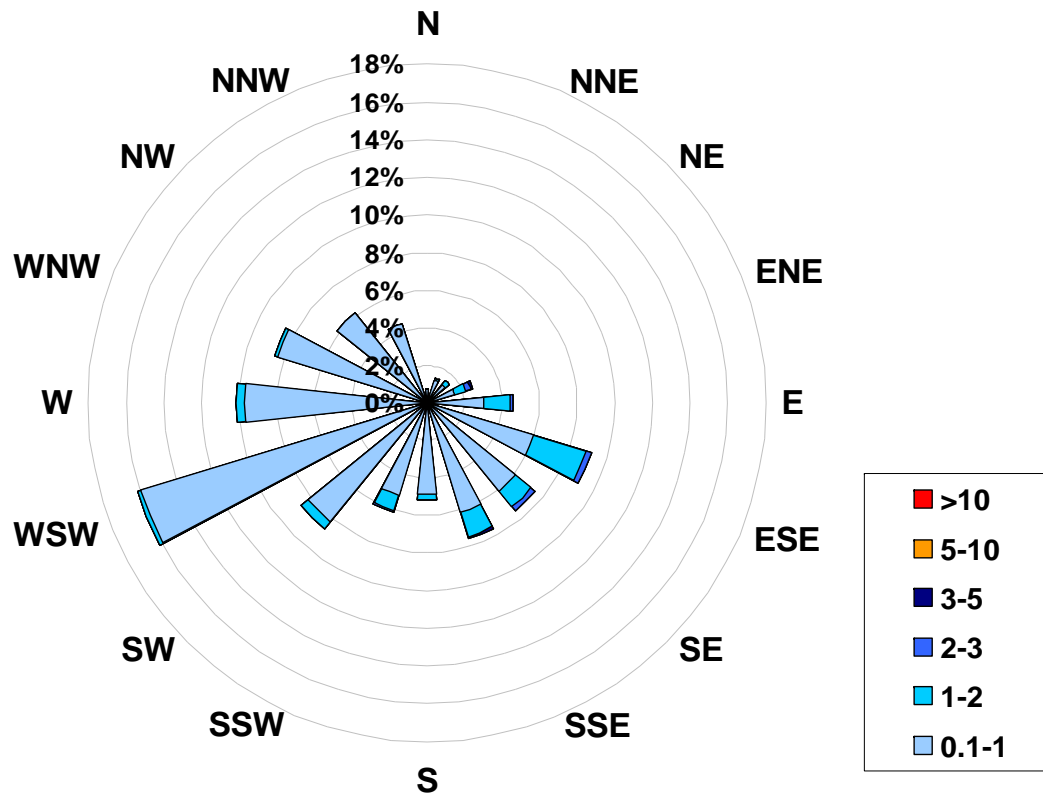


Figure 55. PASZA - Portable-Falher Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	620
1	to	2	72
2	to	3	8
3	to	5	2
5	to	10	0
	>	10	0
Total Non-Zero Values			704

PASZA - Portable-Falher Relative Humidity Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

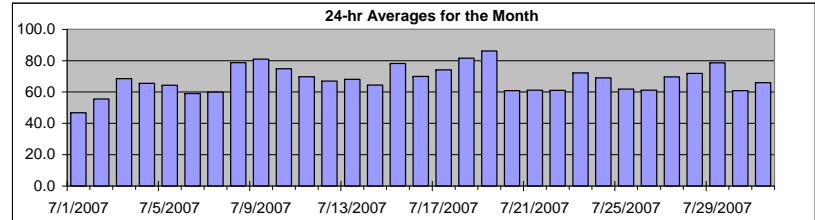
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	98.4	%	29-Jul	7:00 8:00
Maximum 24-hr Value:	86.2	%	19-Jul	



AIC Time:	0 hrs	Operational Time:	738 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	97.4	94.6	82.9	69.2	54.5	38.9	34.6	68.1 %	69.2 %

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	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-Jul-07	54	56	N	N	N	N	55	53	51	49	45	43	39	37	35	33	33	32	34	40	53	58	65	70	46.7	70.5	
2-Jul-07	77	75	70	73	76	74	67	59	56	51	46	45	44	41	38	37	36	36	41	43	53	62	62	69	55.5	77.3	
3-Jul-07	77	82	80	81	80	82	82	63	61	59	59	60	57	55	62	53	51	60	61	62	75	81	82	83	68.5	82.6	
4-Jul-07	85	82	82	88	89	87	81	72	67	64	61	60	55	51	48	44	44	43	39	48	57	68	78	81	65.5	88.9	
5-Jul-07	85	82	82	85	82	80	80	76	71	67	63	60	56	49	47	41	40	39	44	59	50	56	74	76	64.3	85.0	
6-Jul-07	80	82	82	86	86	78	69	64	54	50	48	46	42	37	35	36	33	35	46	56	61	63	69	77	59.0	86.0	
7-Jul-07	78	77	79	76	74	76	70	64	66	65	57	54	53	49	44	36	33	33	38	47	55	62	76	80	59.9	80.4	
8-Jul-07	83	86	88	88	91	91	85	71	66	60	56	59	55	56	57	69	89	86	81	89	91	96	98	98	78.7	97.7	
9-Jul-07	98	96	97	98	96	95	96	95	89	84	82	75	71	70	66	63	57	58	58	66	70	79	89	93	81.0	98.4	
10-Jul-07	94	94	94	93	95	95	90	80	70	66	64	59	55	52	55	59	53	56	66	74	78	84	84	85	74.8	95.5	
11-Jul-07	89	88	85	86	88	87	83	82	75	64	59	56	52	48	49	51	50	53	54	60	67	76	84	87	69.8	88.8	
12-Jul-07	89	90	88	89	85	86	85	75	73	67	63	60	56	50	46	45	43	43	44	48	50	61	80	91	66.9	90.5	
13-Jul-07	91	90	91	92	92	90	84	76	70	64	58	52	48	48	43	43	45	53	60	59	61	70	77	78	68.1	91.9	
14-Jul-07	80	78	76	68	77	76	71	69	66	62	57	52	55	51	47	44	45	46	55	61	65	75	82	88	64.5	88.1	
15-Jul-07	92	94	96	97	97	95	90	81	73	62	57	52	50	57	72	71	70	75	71	78	83	86	92	85	78.2	97.4	
16-Jul-07	84	87	90	94	96	96	92	85	75	62	59	56	54	51	50	49	44	43	52	63	65	70	77	83	69.9	96.1	
17-Jul-07	86	87	88	91	96	96	90	81	71	66	62	59	61	59	57	54	57	57	65	73	76	75	85	88	74.2	96.1	
18-Jul-07	94	96	95	97	97	96	94	91	80	76	70	66	65	68	69	69	73	71	71	78	83	88	84	86	81.6	97.3	
19-Jul-07	85	89	90	93	95	96	96	90	84	87	90	90	83	81	78	78	81	80	71	74	85	91	93	90	86.2	96.4	
20-Jul-07	86	84	83	81	82	87	77	67	60	54	50	47	45	41	38	38	37	39	46	53	65	55	66	79	60.8	86.5	
21-Jul-07	83	86	83	85	86	82	79	71	63	57	54	49	47	46	43	41	39	39	43	47	56	59	63	69	61.2	85.6	
22-Jul-07	71	70	75	70	72	76	82	80	77	63	47	44	41	40	38	38	38	41	53	58	65	72	76	80	61.1	82.3	
23-Jul-07	86	85	85	90	91	89	88	83	62	55	53	48	50	52	49	51	53	57	65	75	80	92	95	97	72.2	96.8	
24-Jul-07	97	97	97	98	98	93	91	83	71	58	48	45	44	42	41	54	70	63	59	65	57	60	62	66	69.0	97.6	
25-Jul-07	66	69	73	80	80	83	81	70	66	62	58	56	53	M	M	42	41	41	43	50	54	56	68	73	61.9	82.6	
26-Jul-07	78	80	82	82	82	85	87	77	67	63	63	51	41	42	35	35	36	35	38	49	62	68	65	67	61.2	86.5	
27-Jul-07	76	84	82	85	88	90	88	86	77	73	74	68	61	56	44	38	35	42	57	62	66	70	80	91	69.7	90.8	
28-Jul-07	91	90	92	91	94	94	94	95	87	78	73	66	60	51	46	45	48	46	50	62	69	68	66	72	71.9	94.6	
29-Jul-07	84	81	83	90	86	76	93	98	95	88	79	70	67	63	62	61	59	60	64	77	86	91	86	87	78.6	98.4	
30-Jul-07	90	89	90	90	89	89	82	73	62	49	44	40	40	38	37	37	38	39	44	47	54	62	67	71	60.9	90.4	
31-Jul-07	71	70	75	80	78	77	72	62	57	55	58	57	56	52	55	54	56	58	62	73	75	77	75	79	65.9	79.5	
Hourly Avg	83.2	83.8	85.1	86.6	87.2	86.6	83.1	76.6	69.8	63.8	59.8	56.2	53.4	51.1	49.6	48.7	49.2	50.3	54.1	61.1	66.6	71.9	77.4	81.3			
Hourly Max	98.2	97.5	97.0	98.4	97.6	96.5	96.4	98.4	95.2	87.8	89.7	90.1	83.0	80.8	77.5	78.3	88.6	86.4	81.4	88.8	91.2	96.4	97.5	97.7			

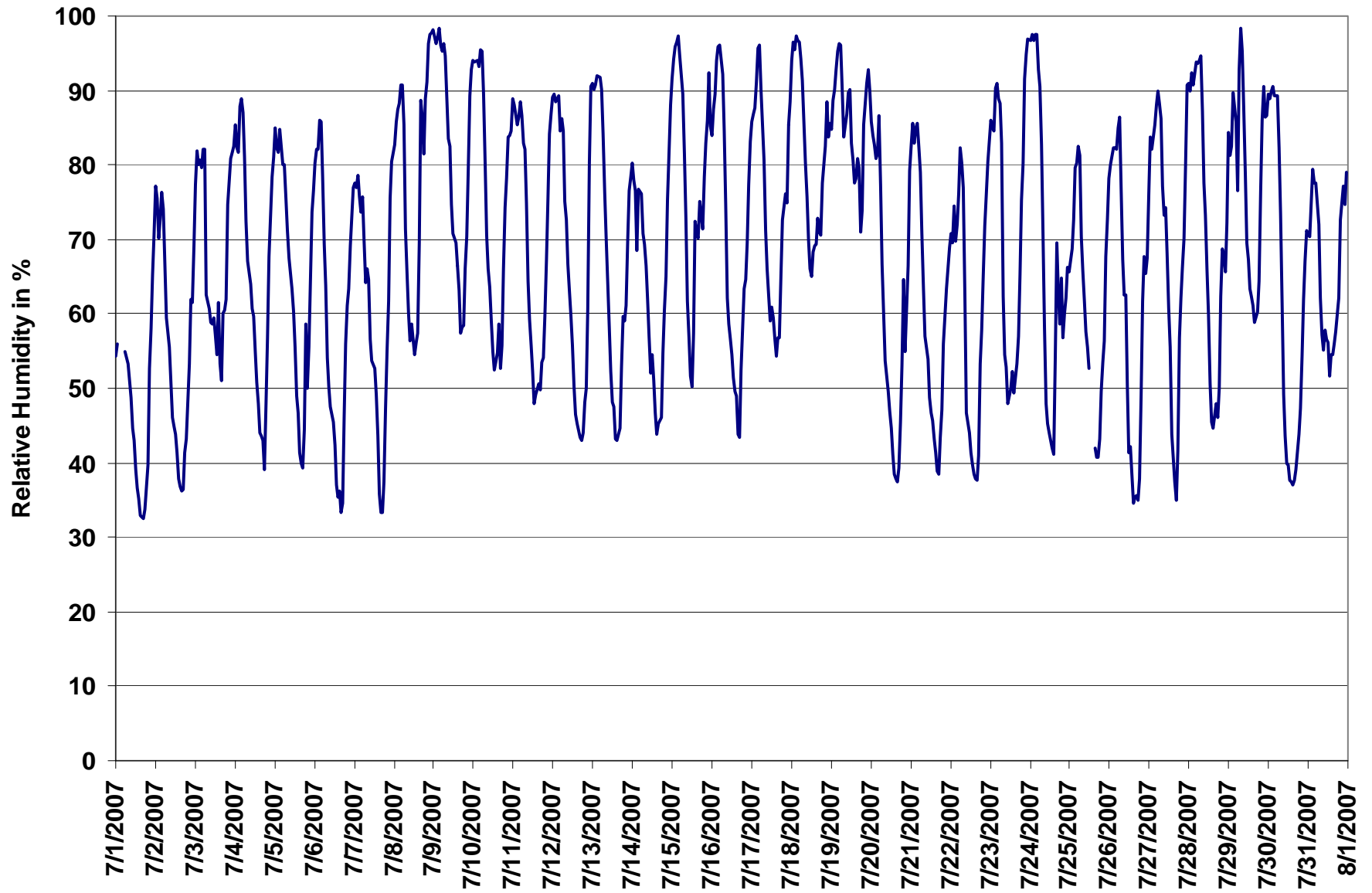


Figure 56. PASZA - Portable-Falher Relative Humidity 1-hr Average Monthly Trend

PASZA - Portable-Falher Temperature Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

HOURLY AVERAGE TABLE

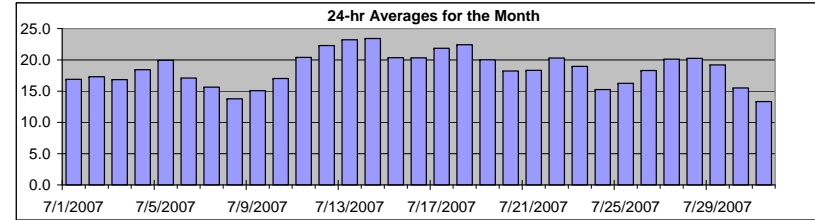
Ambient Temperature (T)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	31.3 °C	13-Jul	15:00 16:00
Maximum 24-hr Value:	23.4 °C	14-Jul	

AIC Time:	0 hrs	Operational Time:	738 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	99.2%
Percentile	99	95	75
	29.2	26.6	22.2
	18.5	14.8	11.1
	9.5	Average	Median
		18.6 °C	18.5 °C



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	6:00 7:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00			21:00
1-Jul-07	13	13	N	N	N	N	13	14	15	16	17	18	19	20	21	21	21	21	21	21	19	17	15	12	11	16.9	21.1
2-Jul-07	10	10	11	11	11	12	14	16	18	19	20	21	21	22	22	22	22	23	23	22	22	20	17	16	14	17.3	23.0
3-Jul-07	13	12	11	10	10	11	12	17	18	19	19	20	20	21	20	21	22	21	21	20	19	16	15	14	14	16.8	21.9
4-Jul-07	13	14	13	11	10	12	14	16	17	19	20	21	22	22	23	24	24	24	25	23	22	19	17	16	16	18.4	24.8
5-Jul-07	15	15	15	15	16	17	17	19	20	21	22	23	24	25	25	25	26	26	25	20	20	18	16	16	16	19.9	25.7
6-Jul-07	15	13	12	10	10	12	14	15	16	17	19	20	21	22	22	22	23	23	21	21	19	18	15	12	12	17.1	22.5
7-Jul-07	12	12	10	10	9	10	12	13	15	16	17	18	19	20	21	20	20	21	22	21	19	18	16	13	11	15.6	21.6
8-Jul-07	10	10	9	8	7	8	12	15	17	18	19	19	19	18	18	17	13	14	14	14	13	13	13	13	13	13.8	19.2
9-Jul-07	12	12	12	11	12	12	12	12	13	14	14	16	17	18	18	19	20	20	20	19	18	16	13	12	12	15.1	19.8
10-Jul-07	11	11	11	11	10	10	13	15	17	18	19	20	21	22	21	21	22	22	21	20	19	18	17	16	16	17.0	22.1
11-Jul-07	16	17	17	15	14	15	16	17	18	21	22	23	24	25	25	25	25	25	26	25	23	20	18	17	17	20.4	25.5
12-Jul-07	15	15	15	14	14	15	17	19	20	22	24	26	27	28	28	29	29	29	29	29	29	28	25	21	17	22.3	29.3
13-Jul-07	16	15	15	14	15	15	18	21	23	25	27	28	29	30	31	31	31	30	30	28	25	22	20	19	19	23.2	31.3
14-Jul-07	19	20	20	21	19	19	21	22	23	25	26	27	28	28	29	29	29	29	28	26	22	19	17	16	16	23.4	29.3
15-Jul-07	15	14	13	12	12	13	16	19	21	24	25	26	26	26	24	25	24	24	24	23	22	21	20	20	20	20.3	26.3
16-Jul-07	18	16	15	14	14	14	15	17	19	21	22	23	24	25	26	26	26	26	26	25	24	22	20	19	18	20.3	26.5
17-Jul-07	17	17	17	17	15	15	17	19	21	23	24	25	26	27	27	27	27	27	26	25	24	22	20	20	20	21.9	27.4
18-Jul-07	19	19	19	18	18	18	20	20	23	23	25	25	26	26	26	26	27	26	25	25	23	22	22	22	22	22.4	26.9
19-Jul-07	21	21	20	20	19	19	19	21	22	22	21	21	22	22	22	23	23	23	22	20	18	17	15	14	15	20.0	23.2
20-Jul-07	15	14	13	13	12	11	14	16	18	19	20	21	22	23	23	23	23	23	22	21	20	19	17	14	14	18.2	23.4
21-Jul-07	14	13	13	12	12	13	14	15	17	19	20	21	21	22	23	23	23	24	24	23	23	21	19	18	17	18.3	23.7
22-Jul-07	16	16	15	16	15	15	15	16	17	19	22	23	25	26	26	27	27	27	27	24	24	22	20	19	18	20.3	27.1
23-Jul-07	16	16	16	15	14	15	16	17	20	21	22	23	23	23	23	23	23	23	22	21	19	16	15	15	15	19.0	23.2
24-Jul-07	14	14	14	13	12	13	13	14	15	16	17	18	18	18	19	16	15	16	17	16	16	15	14	13	13	15.3	18.7
25-Jul-07	13	13	12	11	11	10	10	13	14	16	18	18	19	M	M	22	22	22	22	22	21	19	17	14	14	16.3	22.3
26-Jul-07	13	12	11	11	10	10	12	15	17	19	20	22	23	24	25	25	25	26	25	23	20	18	17	16	16	18.3	25.6
27-Jul-07	16	15	16	16	15	15	16	17	19	21	21	21	22	23	25	26	26	26	26	25	24	23	22	20	16	20.1	26.2
28-Jul-07	16	15	14	14	13	13	14	16	18	20	21	22	24	26	26	27	27	27	27	27	26	22	20	19	18	20.2	27.1
29-Jul-07	17	17	18	17	17	18	16	15	16	17	19	21	22	23	23	24	24	24	23	21	18	17	17	16	16	19.2	24.4
30-Jul-07	15	15	14	14	13	12	13	14	15	16	17	17	18	18	18	19	19	19	18	17	15	13	12	11	11	15.5	19.2
31-Jul-07	10	10	10	9	9	9	11	13	14	15	14	15	15	16	16	16	16	16	16	16	15	15	14	14	14	13.3	16.2
Hourly Avg	14.7	14.3	14.0	13.4	13.1	13.3	14.7	16.5	18.0	19.4	20.4	21.3	22.1	22.8	23.2	23.4	23.5	23.3	22.8	21.7	20.0	18.2	16.6	15.5	15.5		
Hourly Max	21.2	20.6	20.3	21.3	19.3	19.1	20.9	22.4	23.0	25.2	26.7	27.9	29.0	30.0	30.6	31.3	31.1	30.3	29.7	29.1	27.5	24.6	22.3	21.7	21.7		

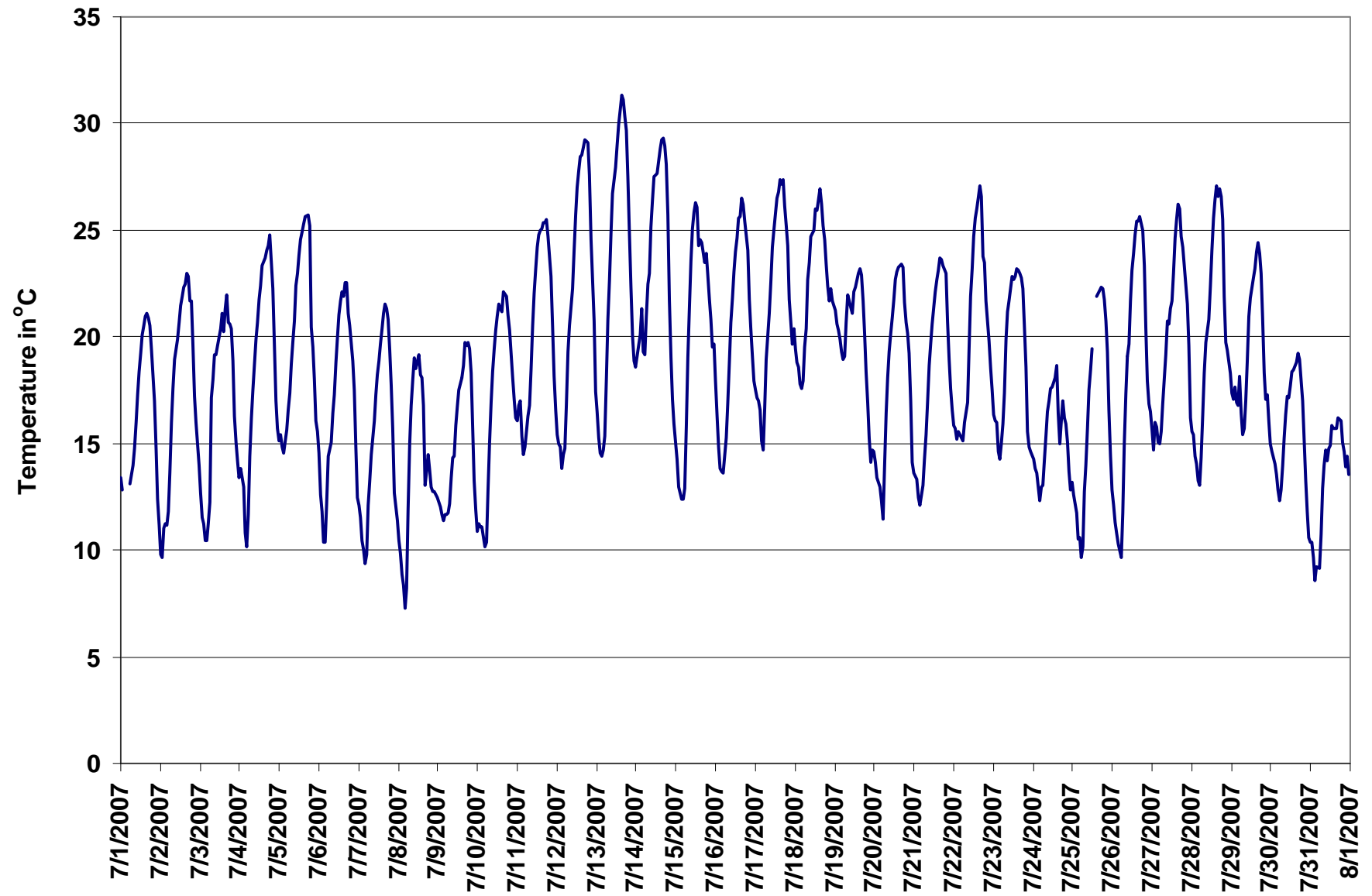


Figure 57. PASZA - Portable-Falher Temperature 1-hr Average Monthly Trend

PASZA - Portable-Falher Scalar Wind Speed Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

HOURLY AVERAGE TABLE

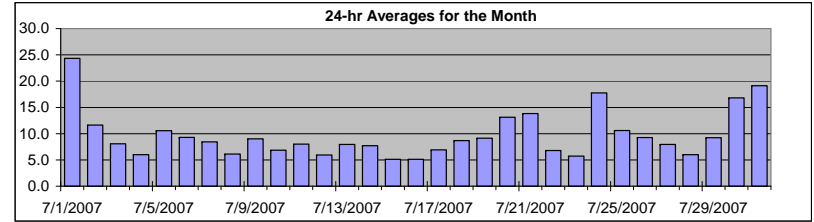
Wind Speed (WSs)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	33.9	km/hr	24-Jul	11:00 12:00
Maximum 24-hr Value:	24.3	km/hr	1-Jul	

Calm Time:	0 hrs	0% calms	Operational Time:	736 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	98.9%				
Percentile	99	95	75	50	25	5	1	AverageS
	31.2	23.7	11.7	7.8	5.6	3.3	2.2	9.6 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jul-07	27	25	N	N	N	N	30	32	33	33	33	30	31	30	31	31	29	25	22	15	9	7	8	8	24.3	32.9	
2-Jul-07	7	9	10	8	6	5	6	10	11	15	18	18	21	19	22	18	20	18	13	8	6	4	4	4	11.6	21.5	
3-Jul-07	6	8	8	7	4	5	7	10	7	8	11	9	12	11	12	9	11	10	5	5	6	8	7	8	8.1	12.0	
4-Jul-07	6	4	4	4	7	7	5	8	10	9	7	7	8	6	6	5	4	3	2	4	4	7	7	8	6.0	10.0	
5-Jul-07	8	10	9	11	13	12	10	11	11	12	13	16	14	14	14	12	8	6	6	9	11	13	4	6	10.6	16.1	
6-Jul-07	6	6	4	6	9	8	9	12	14	16	17	16	14	14	13	11	8	7	5	3	4	5	8	8	9.3	16.7	
7-Jul-07	8	9	9	5	8	5	7	10	9	8	6	7	9	12	14	14	13	13	12	8	5	4	4	4	8.4	14.4	
8-Jul-07	5	3	5	4	5	3	7	11	11	12	9	6	4	4	5	9	7	6	5	7	6	6	4	4	6.1	11.9	
9-Jul-07	3	8	6	8	10	8	9	11	11	12	11	11	10	11	12	13	12	11	7	2	4	7	10	7	9.0	13.2	
10-Jul-07	6	6	7	7	5	5	6	7	10	9	11	10	10	12	10	5	4	3	4	5	6	6	6	6	6.9	12.2	
11-Jul-07	5	4	5	7	7	8	8	8	9	14	15	13	13	13	12	10	9	5	2	2	7	7	6	6	8.0	14.8	
12-Jul-07	5	6	5	6	6	4	4	8	9	9	8	7	7	8	8	9	7	4	3	1	2	4	4	6	5.9	9.3	
13-Jul-07	6	7	6	7	6	6	6	6	4	8	8	9	10	10	9	10	7	10	8	8	11	10	10	8	7	8.0	11.3
14-Jul-07	9	6	4	7	8	8	9	5	5	3	7	9	11	10	9	9	8	8	7	13	10	5	5	7	7.7	13.3	
15-Jul-07	3	3	5	5	4	3	3	3	4	3	4	6	6	4	8	7	7	7	7	4	6	7	8	7	5.1	8.3	
16-Jul-07	5	5	6	5	3	4	6	11	7	6	4	3	4	5	4	4	3	2	2	5	12	9	5	4	5.1	12.4	
17-Jul-07	5	2	5	4	5	5	7	9	8	7	6	7	7	9	9	9	8	7	6	3	6	14	11	4	6.9	14.0	
18-Jul-07	3	4	6	6	3	6	5	7	10	11	15	15	16	12	7	5	8	13	13	6	5	6	16	9	8.7	16.5	
19-Jul-07	20	19	17	14	10	6	3	3	4	11	3	3	4	4	3	7	14	13	13	15	5	10	9	12	9.1	19.6	
20-Jul-07	10	9	5	3	8	7	8	14	17	20	20	19	21	22	23	19	19	16	10	4	M	M	7	7	13.1	23.1	
21-Jul-07	7	7	8	6	6	8	9	15	21	24	25	24	24	23	21	18	19	16	10	8	7	10	9	7	13.8	25.3	
22-Jul-07	7	5	7	7	6	5	6	3	4	7	11	11	9	9	9	8	9	10	7	2	6	3	7	6	6.8	10.8	
23-Jul-07	5	6	5	5	5	2	3	3	6	6	6	6	7	7	5	5	4	5	3	6	14	13	6	5	5.7	14.4	
24-Jul-07	8	9	7	6	9	10	13	15	21	27	31	34	29	31	30	29	19	15	14	9	16	12	16	16	17.7	33.9	
25-Jul-07	13	12	11	9	5	10	10	14	15	17	15	13	9	M	M	12	12	13	10	5	5	7	8	10	10.6	16.5	
26-Jul-07	8	8	7	7	7	8	5	6	7	7	9	13	14	12	12	11	10	11	11	9	10	11	12	9	9.3	14.4	
27-Jul-07	8	11	11	9	6	4	7	7	7	9	9	11	14	14	14	10	5	4	7	5	3	3	4	8	8.0	14.3	
28-Jul-07	4	6	7	6	8	3	3	5	4	4	5	5	4	5	6	4	3	3	5	6	13	12	13	10	6.0	13.1	
29-Jul-07	9	8	13	7	11	10	21	13	13	13	13	9	6	5	4	4	4	7	7	8	9	6	6	17	9.2	20.9	
30-Jul-07	12	13	11	8	7	7	11	15	21	25	27	28	25	23	22	24	24	26	18	14	12	7	11	11	16.8	28.3	
31-Jul-07	11	11	10	12	14	16	17	24	25	25	20	22	23	23	26	25	25	25	20	18	16	15	17	14	19.1	27.4	
1-hr Average	7.9	8.0	7.4	7.0	7.1	6.5	8.4	10.1	11.2	12.5	12.8	12.9	12.8	12.8	12.7	11.8	11.0	10.3	8.5	7.2	7.9	7.9	8.1	8.0			
Hourly Max	27.5	24.7	16.6	13.9	14.0	16.1	29.5	31.7	32.7	32.6	32.9	33.9	31.4	31.0	31.3	30.6	28.6	25.7	21.6	18.1	16.1	14.7	16.7	16.6			

PASZA - Portable-Falher Vector Wind Speed Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

HOURLY AVERAGE TABLE

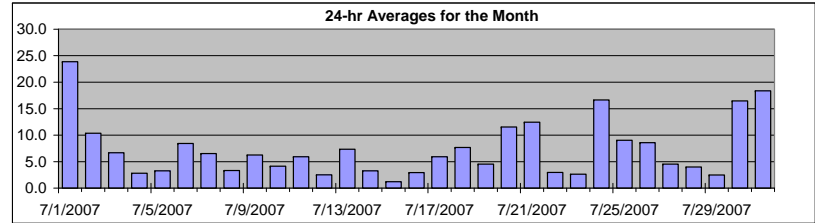
Wind Speed (WSv)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:				33.6	km/hr	24-Jul	11:00 12:00
Maximum 24-hr Value:				23.9	km/hr	1-Jul	

Calm Time:	0 hrs	0% calms	Operational Time:	736 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	98.9%				
Percentile	99	95	75	50	25	5	1	AverageV
	31.0	23.6	11.2	7.6	5.1	2.4	1.1	17.0 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	
1-Jul-07	27	25	N	N	N	N	30	32	33	32	33	29	31	30	31	30	28	25	22	15	9	7	8	8	23.9	32.8	
2-Jul-07	7	8	10	8	6	5	6	10	11	15	18	18	20	18	21	18	19	18	13	8	6	4	4	4	10.4	21.3	
3-Jul-07	6	8	8	7	4	5	7	9	7	8	10	9	12	11	11	9	11	10	5	5	6	8	6	8	6.7	11.7	
4-Jul-07	6	4	3	6	7	5	8	10	9	6	7	5	5	5	1	1	1	4	4	4	7	7	8	2.8	9.8		
5-Jul-07	8	10	9	11	13	12	10	10	10	12	13	16	14	13	13	12	8	6	6	9	11	13	3	5	3.3	15.9	
6-Jul-07	6	6	4	6	9	8	9	12	14	16	16	15	13	13	13	11	8	7	5	3	4	5	8	8	8.4	16.4	
7-Jul-07	8	9	9	4	8	4	6	10	9	7	5	6	8	11	14	14	12	13	11	8	5	3	4	4	6.5	13.8	
8-Jul-07	5	2	4	3	4	3	7	11	11	11	8	5	2	2	4	8	5	6	5	6	6	5	4	2	3.3	11.5	
9-Jul-07	3	8	6	8	10	8	9	11	11	12	11	11	10	11	12	13	12	11	6	2	4	7	10	7	6.3	13.0	
10-Jul-07	6	5	5	6	5	5	6	7	9	9	10	10	10	12	10	4	3	3	3	5	6	6	6	6	4.1	11.9	
11-Jul-07	4	3	5	7	7	7	7	8	9	14	15	13	13	13	11	10	8	5	2	2	7	7	6	5	5.9	14.7	
12-Jul-07	5	6	4	6	6	4	4	7	9	9	7	6	7	8	8	9	7	4	3	1	1	4	4	6	2.5	9.1	
13-Jul-07	6	7	6	7	6	6	5	4	8	8	9	10	10	8	10	7	10	7	8	11	10	10	8	7	7.4	11.3	
14-Jul-07	8	6	4	5	8	7	9	5	5	3	7	9	11	10	9	9	8	8	7	13	10	3	5	6	3.3	12.9	
15-Jul-07	1	2	5	5	3	2	3	3	3	2	3	5	5	3	7	6	7	7	7	4	3	1	7	7	1.2	7.2	
16-Jul-07	3	4	6	4	3	3	5	11	6	5	3	1	3	4	2	3	2	1	2	5	12	9	5	3	2.9	12.3	
17-Jul-07	3	1	5	3	5	5	7	9	7	6	6	7	6	9	9	9	8	7	6	3	5	10	11	3	5.9	11.3	
18-Jul-07	3	4	5	6	3	6	5	7	10	11	14	14	16	12	7	5	7	13	12	6	5	6	16	8	7.7	16.3	
19-Jul-07	20	19	16	14	10	6	3	2	3	11	3	3	3	4	2	6	14	13	12	15	3	10	9	11	4.5	19.5	
20-Jul-07	10	9	5	3	8	7	7	14	17	20	20	19	20	21	23	19	18	15	10	4	M	M	7	7	11.5	22.9	
21-Jul-07	7	7	8	6	6	8	8	15	21	24	25	23	24	22	21	18	18	16	10	8	7	10	9	7	12.4	25.0	
22-Jul-07	7	5	6	7	5	5	6	2	4	7	11	10	8	8	8	7	8	9	7	2	6	2	6	5	3.0	10.6	
23-Jul-07	4	5	4	5	5	2	2	3	5	6	5	6	6	6	4	5	4	4	3	6	14	12	4	5	2.6	13.8	
24-Jul-07	8	9	7	6	9	10	13	15	21	27	31	34	29	31	30	27	18	14	14	9	16	11	16	16	16.6	33.6	
25-Jul-07	13	12	11	9	5	10	10	14	15	16	15	12	8	M	M	12	12	12	10	5	4	7	8	10	9.0	16.3	
26-Jul-07	8	7	7	7	7	8	5	6	7	7	8	12	14	11	11	10	10	11	11	9	10	11	12	9	8.6	14.1	
27-Jul-07	8	11	11	9	6	2	7	5	5	7	7	11	14	13	14	10	5	4	7	5	3	2	4	8	4.5	13.9	
28-Jul-07	4	6	7	5	8	2	2	5	2	4	5	1	1	3	4	2	1	2	5	6	12	12	12	10	4.0	12.4	
29-Jul-07	9	7	3	3	10	7	14	12	10	13	13	9	5	3	4	3	4	6	7	8	9	6	6	17	2.5	16.6	
30-Jul-07	12	13	11	7	7	7	11	14	21	25	27	28	24	22	22	24	24	26	18	14	12	7	10	11	16.5	28.1	
31-Jul-07	10	11	9	11	14	16	17	24	25	24	20	22	22	27	26	25	25	25	20	18	16	15	17	14	18.4	27.1	
1-hr Vector	4.4	4.1	4.2	3.8	3.7	3.3	4.8	6.3	6.8	7.3	7.5	7.8	8.3	8.6	8.3	8.1	7.6	6.7	4.5	2.8	2.1	2.6	3.7	3.8			
Hourly Max	27.4	24.7	15.7	13.8	14.0	16.1	29.5	31.7	32.6	32.5	32.8	33.6	31.3	30.8	31.1	30.3	28.4	25.5	21.5	18.0	16.0	14.6	16.6	16.6			

PASZA - Portable-Falher Wind Direction Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Calm Time: 0 hrs	0% calms	Operational Time: 736 hrs						
Calibration Time: 0 hrs		AMD Operational Uptime: 98.9%						
Percentile	99	95	75	50	25	5	1	Average
	346.3	323.5	267.0	229.5	139.3	75.5	29.5	240 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	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00		
1-Jul-07	232	234	N	N	N	N	240	242	243	245	248	245	256	252	241	246	253	258	257	256	241	211	202	200	244	WSW
2-Jul-07	187	190	196	188	182	191	205	223	227	235	238	240	240	261	256	268	259	262	265	286	272	240	263	211	241	WSW
3-Jul-07	181	182	199	202	174	213	236	282	311	286	276	274	254	262	272	264	263	283	286	278	238	239	233	230	252	WSW
4-Jul-07	242	274	254	236	232	244	256	269	286	292	270	259	257	291	265	322	191	139	48	68	65	82	87	84	263	W
5-Jul-07	100	104	119	128	128	132	138	171	228	259	285	286	288	292	314	306	320	316	309	309	315	297	198	217	271	W
6-Jul-07	210	240	208	221	233	250	265	267	287	279	279	277	267	287	277	287	300	279	298	292	259	221	225	231	266	W
7-Jul-07	230	238	238	259	247	253	265	281	318	324	314	299	279	290	281	286	297	309	323	340	346	21	58	97	291	WNW
8-Jul-07	104	80	90	134	67	63	75	92	93	105	119	160	186	204	75	210	302	346	41	107	141	210	178	195	114	ESE
9-Jul-07	195	309	291	295	342	337	316	309	322	310	315	329	313	293	304	298	290	293	311	322	155	155	131	132	307	NW
10-Jul-07	138	127	119	177	82	152	182	234	262	265	247	257	254	253	269	257	231	244	191	160	164	155	169	167	214	SSW
11-Jul-07	152	197	244	249	243	254	257	248	257	285	285	281	273	284	283	281	290	295	279	201	173	164	161	120	260	W
12-Jul-07	102	126	135	110	154	141	175	225	232	249	255	251	255	257	274	300	299	298	312	260	231	142	115	120	226	SW
13-Jul-07	104	121	109	119	121	127	167	163	166	163	165	162	165	159	154	143	116	111	111	119	123	120	125	103	135	SE
14-Jul-07	114	153	120	172	182	208	213	219	245	298	304	278	284	292	296	298	309	312	338	355	15	14	239	341	288	WNW
15-Jul-07	304	22	35	183	191	80	58	30	53	56	122	106	150	215	294	308	306	333	343	338	247	225	244	249	291	WNW
16-Jul-07	259	240	223	233	166	152	181	231	264	337	315	294	320	266	315	345	339	310	316	185	193	207	227	114	238	WSW
17-Jul-07	153	189	140	186	153	133	128	158	170	167	137	105	111	103	110	112	126	119	105	71	70	115	67	62	121	ESE
18-Jul-07	68	79	43	52	33	113	127	121	142	128	125	134	137	124	149	196	166	151	136	116	121	112	124	145	128	SE
19-Jul-07	129	146	129	128	144	165	261	200	120	160	161	131	147	149	156	304	305	295	289	250	154	198	189	191	175	S
20-Jul-07	219	222	212	153	175	165	181	221	231	231	240	246	240	239	240	247	251	251	262	220	M	M	136	136	230	SW
21-Jul-07	151	155	210	203	207	207	206	227	236	242	249	253	253	248	250	254	251	248	241	218	195	187	200	183	233	SW
22-Jul-07	180	147	169	171	147	115	109	165	132	130	119	134	219	248	265	232	243	252	323	349	305	341	121	127	181	S
23-Jul-07	135	154	206	101	122	168	208	243	291	305	303	289	289	286	310	323	311	333	338	329	302	276	87	184	287	WNW
24-Jul-07	201	215	216	213	213	207	211	224	232	249	248	248	255	247	248	270	297	272	249	234	234	252	228	229	244	WSW
25-Jul-07	233	235	234	234	223	224	229	246	262	259	262	275	289	M	M	272	273	261	261	248	196	180	153	163	245	WSW
26-Jul-07	148	161	146	131	105	102	95	111	130	125	122	114	90	93	89	82	86	95	95	94	78	76	78	98	102	ESE
27-Jul-07	123	115	119	112	94	100	111	83	105	337	351	337	351	23	35	53	23	346	346	335	313	349	111	101	49	NE
28-Jul-07	149	112	130	96	110	213	109	108	138	164	157	174	68	133	141	143	104	13	348	346	35	68	85	110	102	ESE
29-Jul-07	96	108	214	332	92	98	275	332	351	43	56	88	155	205	291	29	333	341	344	302	300	283	261	268	335	NNW
30-Jul-07	281	270	240	230	221	258	256	246	249	254	255	250	263	256	265	259	257	253	253	240	240	246	224	236	253	WSW
31-Jul-07	248	263	227	205	230	235	238	242	251	256	257	254	258	261	264	269	273	279	274	272	271	271	274	265	258	WSW
Hourly Avg	179	187	181	179	169	183	220	235	245	252	253	251	254	257	263	270	274	275	284	274	247	203	169	179		

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

Station: Portable-Falher
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	736 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	98.9%			
Percentile	99	95	75	50	25	5	1
	81.1	56.0	23.6	12.7	8.2	4.4	3.2

Status Flag Characters

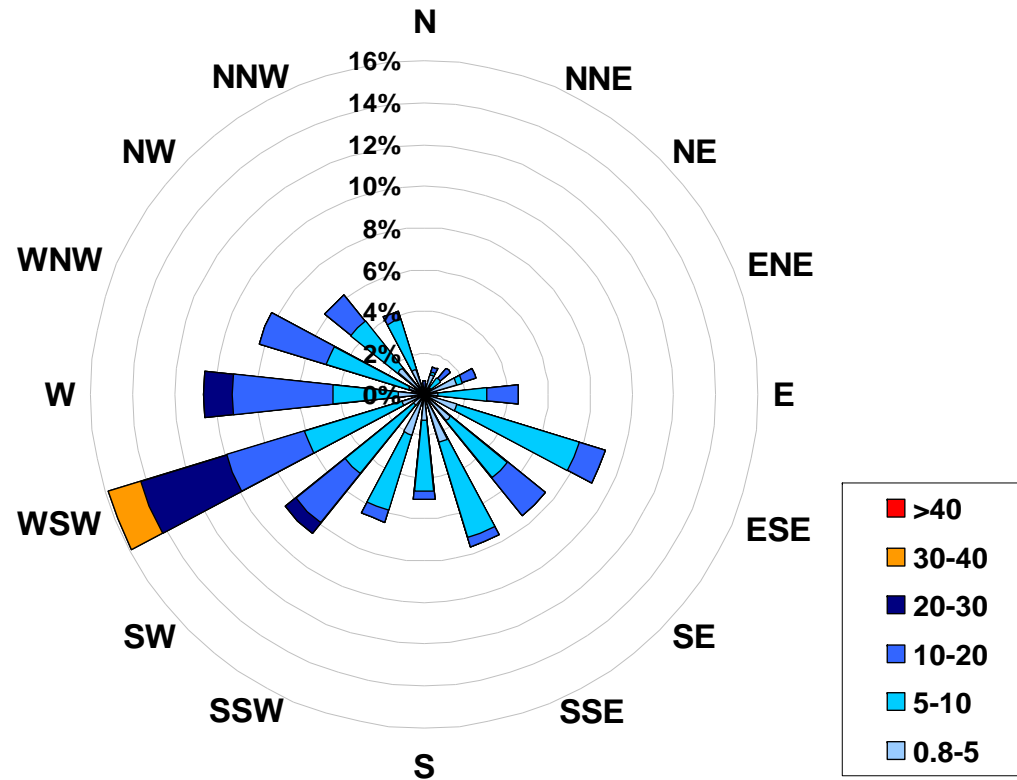
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day Mountain Standard Time

Day	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-Jul-07		3	4	N	N	N	N	3	4	4	5	6	8	6	7	8	8	8	5	5	5	4	13	9	6	13.4
2-Jul-07		7	6	6	8	12	9	17	11	8	8	8	13	11	10	8	7	7	8	8	5	12	13	25	16	24.5
3-Jul-07		25	9	7	4	27	19	11	19	10	12	11	17	15	16	17	17	13	18	24	16	4	6	7	2	26.8
4-Jul-07		20	10	40	6	6	16	7	11	11	27	24	29	25	31	31	33	81	84	56	17	18	11	6	9	84.4
5-Jul-07		9	7	7	2	4	4	3	20	25	11	11	10	12	14	10	11	17	18	10	5	4	13	58	23	57.9
6-Jul-07		24	10	24	11	5	4	7	7	9	9	11	16	17	18	15	15	18	20	12	19	15	15	5	4	23.9
7-Jul-07		6	2	5	42	17	52	19	9	22	27	37	35	24	19	13	17	13	10	12	3	5	16	15	25	51.8
8-Jul-07		14	36	41	32	18	15	10	8	10	15	26	26	82	58	39	56	46	9	15	24	9	31	9	93	93.1
9-Jul-07		45	14	16	9	9	11	12	6	15	8	14	12	14	13	13	9	14	10	14	50	19	9	9	10	50.1
10-Jul-07		7	40	47	33	22	12	13	15	10	13	16	21	17	12	13	18	45	18	20	9	8	6	5	25	47.1
11-Jul-07		31	24	12	9	7	11	11	5	14	7	7	10	10	10	10	10	10	14	34	40	6	11	10	27	39.7
12-Jul-07		8	19	26	16	8	24	21	17	10	12	16	18	18	16	19	16	19	20	7	30	48	40	16	16	48.5
13-Jul-07		8	7	4	8	7	8	55	33	9	9	8	12	14	12	13	8	5	7	5	3	7	7	8	8	55.1
14-Jul-07		29	28	38	46	11	15	14	24	30	43	13	18	18	15	13	12	9	8	4	13	10	54	24	29	54.4
15-Jul-07		70	59	8	28	61	41	13	41	38	45	45	25	24	27	22	22	11	12	12	24	53	90	44	24	90.0
16-Jul-07		57	26	10	35	25	16	22	10	36	26	58	87	62	47	72	32	62	65	37	54	5	9	8	53	86.8
17-Jul-07		54	65	33	47	19	7	10	7	10	18	32	23	28	19	20	16	7	12	11	27	23	55	8	55	64.7
18-Jul-07		44	26	25	15	18	24	10	13	8	10	9	10	10	6	26	21	25	9	5	7	12	19	10	26	44.2
19-Jul-07		4	14	18	7	15	26	24	65	51	10	31	56	46	22	75	19	11	9	18	19	71	12	5	10	74.7
20-Jul-07		5	12	18	32	10	5	18	9	8	8	13	10	12	9	9	10	9	11	6	35	M	M	16	19	34.6
21-Jul-07		6	11	16	17	9	13	15	5	7	7	10	9	9	13	13	10	9	10	6	8	10	6	10	13	17.2
22-Jul-07		6	28	13	9	21	28	21	58	14	11	14	24	27	36	31	24	22	25	37	38	9	46	15	29	58.4
23-Jul-07		29	9	41	16	17	41	35	21	18	18	26	25	27	19	33	19	12	20	22	23	19	28	48	22	47.6
24-Jul-07		13	5	17	13	11	5	7	6	7	7	7	8	6	7	8	23	7	17	7	7	8	26	3	3	25.9
25-Jul-07		3	5	10	4	5	4	4	12	7	9	11	16	30	M	M	19	15	16	7	4	18	8	10	5	29.8
26-Jul-07		6	6	7	8	4	7	11	7	11	12	11	13	13	13	17	17	12	11	6	6	3	5	4	12	16.9
27-Jul-07		6	5	6	7	9	71	19	55	72	57	38	13	18	12	11	16	36	39	5	7	10	40	17	12	72.4
28-Jul-07		27	17	23	27	17	59	38	11	52	28	23	85	85	68	62	81	72	55	21	4	23	7	7	26	85.1
29-Jul-07		30	15	73	73	21	45	53	14	37	10	13	17	45	77	44	48	47	17	11	7	11	18	12	5	77.1
30-Jul-07		13	15	8	12	11	11	10	13	6	6	7	6	12	13	8	10	6	7	5	6	5	9	9	18	17.9
31-Jul-07		8	7	32	23	5	4	4	6	7	9	8	7	10	8	10	7	6	7	7	6	4	3	3	4	32.3

Hourly Max	70	65	73	73	61	71	55	65	72	57	58	87	85	77	75	81	81	84	56	54	71	90	58	93
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1-hr Average Wind Rose (in km/hr) Located at the Portable-Falher Site for July 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	143
5	to	10	344
10	to	20	190
20	to	30	47
30	to	40	12
	>	40	0
Total Non-Zero Values			736

PASZA – Valleyview Station

Monthly Summary Tables, Graphs, and Roses

PASZA - Valleyview Sulphur Dioxide Monthly Summary

Station: Valleyview
 Station Owner: PASZA

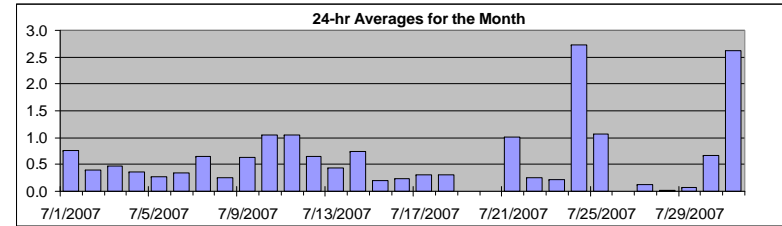
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	12.7 ppb	31-Jul	22:00	23:00
Maximum 24-hr Average:	2.7 ppb	24-Jul		



AIC Time:	28 hrs	Operational Time:	661 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	93.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	7.3	2.6	0.5	0.3	0.0	0.0	0.0	0.6 ppb	0.3 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start	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-Jul-07	N	N	N	0	0	0	0	0	0	0	0	0	2	1	1	1	2	1	1	2	1	0	0	0	0.8	2.2		
2-Jul-07	A	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	2	2	0	0	0	0	0.4	2.1		
3-Jul-07	A	0	0	0	0	0	0	0	1	3	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0.5	3.5		
4-Jul-07	A	0	0	0	0	P	0	0	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.8		
5-Jul-07	A	0	0	0	0	0	0	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	3.1		
6-Jul-07	A	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0.3	1.4		
7-Jul-07	A	0	0	0	0	0	0	3	5	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0.6	4.6		
8-Jul-07	A	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6		
9-Jul-07	A	0	1	1	0	1	0	0	0	0	0	0	0	0	0	3	2	3	1	1	0	0	0	0	0.6	3.1		
10-Jul-07	A	0	0	0	0	0	0	0	2	5	3	1	2	2	1	0	1	1	1	0	1	0	0	4	1.1	5.2		
11-Jul-07	A	0	0	0	0	0	1	11	3	1	0	1	1	1	1	1	0	0	0	0	1	0	0	0	1.0	11.4		
12-Jul-07	A	0	0	0	0	0	0	0	0	3	2	3	2	2	0	0	0	0	0	0	0	0	0	0	0.7	2.7		
13-Jul-07	A	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	0	0	0	1	0	0	0	1	0.4	1.0		
14-Jul-07	A	1	1	0	0	1	0	0	1	2	1	1	1	2	0	1	0	0	0	1	0	0	0	0	0.7	2.2		
15-Jul-07	A	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6		
16-Jul-07	A	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6		
17-Jul-07	A	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6		
18-Jul-07	A	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	0	0	0	0	0	0	0.3	0.7		
19-Jul-07	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
20-Jul-07	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
21-Jul-07	A	0	0	0	0	0	0	0	0	2	9	2	3	1	2	1	0	1	0	0	0	0	0	0	1.0	8.9		
22-Jul-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0.3	1.0		
23-Jul-07	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5		
24-Jul-07	A	0	0	0	0	0	0	0	6	8	4	0	2	1	4	4	2	3	1	4	9	10	4	1	2.7	10.4		
25-Jul-07	A	0	0	0	0	0	0	0	6	3	1	3	2	1	0	1	1	1	0	0	1	1	1	0	1.1	6.1		
26-Jul-07	A	0	0	0	0	0	0	0	1	1	C	C	C	C	C	C	C	C	0	0	0	0	0	0	N	0.5		
27-Jul-07	A	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.8		
28-Jul-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1		
29-Jul-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4		
30-Jul-07	A	0	0	0	0	0	0	1	1	1	1	1	1	0	1	1	2	3	3	0	0	0	0	0	0.7	2.9		
31-Jul-07	A	0	0	0	0	0	0	0	0	1	3	2	3	1	2	3	4	7	1	2	2	10	13	7	2.6	12.7		
Hourly Avg	N	0.2	0.1	0.2	0.2	0.2	0.2	0.8	1.2	1.4	1.1	0.7	0.9	0.6	0.6	0.8	0.6	0.9	0.5	0.5	0.6	0.8	0.7	0.5				
Hourly Max	0.0	1.4	0.8	1.0	0.5	0.6	0.9	11.4	6.1	8.3	8.9	2.6	3.5	2.2	3.9	3.9	4.3	6.5	2.5	3.5	9.2	10.4	12.7	6.7				

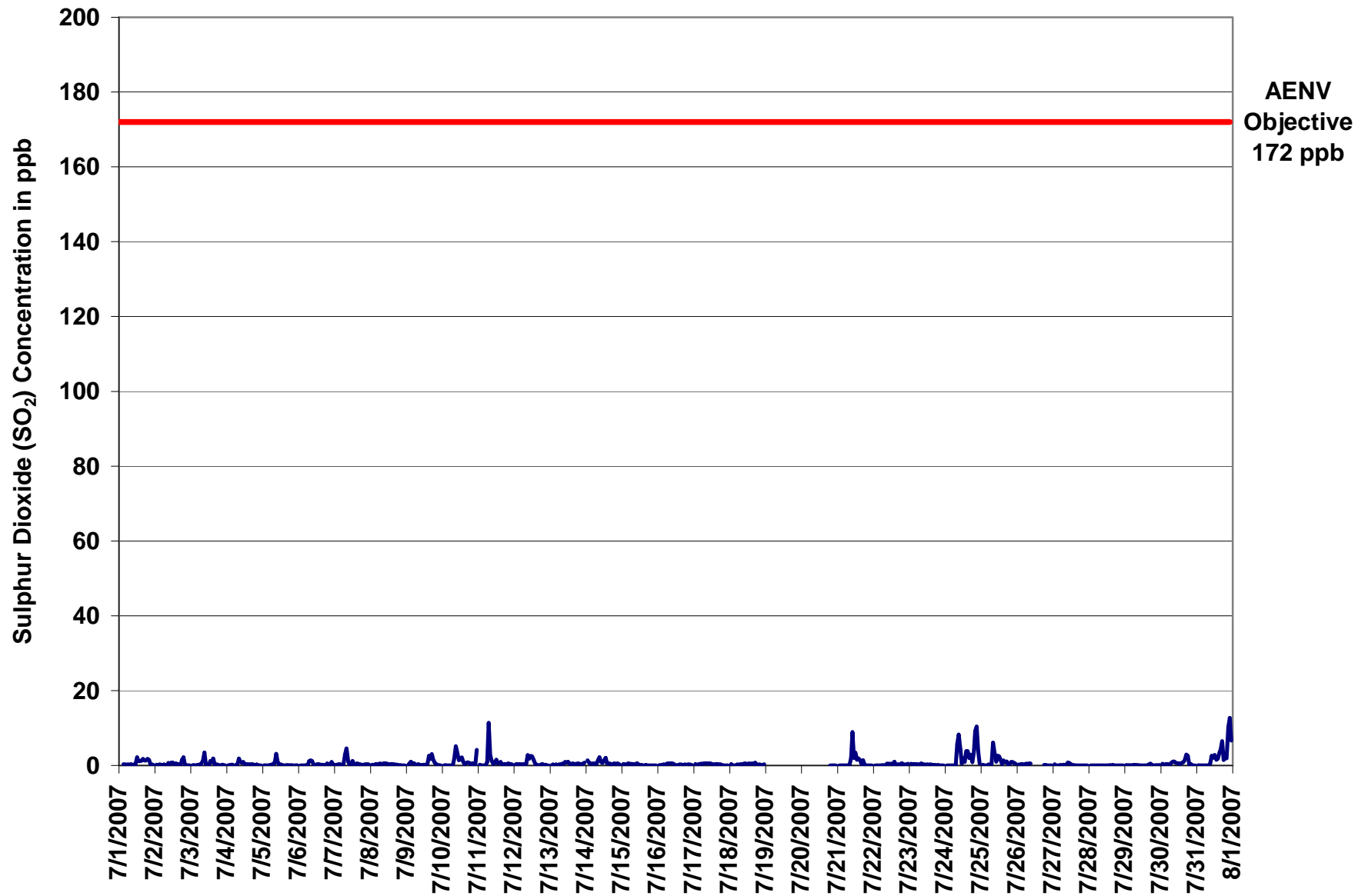


Figure 58. PASZA - Valleyview Sulphur Dioxide 1-hr Average Monthly Trend

Station: Valleyview
 Station Owner: PASZA

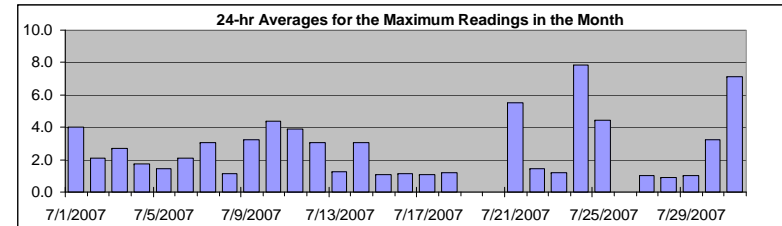
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	35.6	ppb	21-Jul	10:00 11:00
Maximum 24-hr Value:	7.9	ppb	24-Jul	



AIC Time:	0 hrs	Operational Time:	661 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	88.8%						
Percentile	99	95	75	50	25	5	1	Average	Median
	19.2	11.4	1.7	1.2	0.9	0.4	0.2	2.6 ppb	1.2 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum		
1-Jul-07	N	N	N	1	1	1	1	1	1	0	3	1	10	9	5	7	7	8	8	5	7	1	1	1	4.0	9.7		
2-Jul-07	A	1	1	1	1	1	1	1	1	2	1	4	4	3	3	3	2	1	4	6	1	1	1	1	2.1	6.4		
3-Jul-07	A	1	1	1	1	1	1	2	4	13	1	1	1	7	7	7	2	2	1	0	0	1	1	1	2.7	13.4		
4-Jul-07	A	1	0	1	0	P	1	1	9	6	2	3	1	1	1	1	1	1	1	1	1	1	0	0	1.7	9.4		
5-Jul-07	A	1	0	0	0	0	1	1	1	12	3	1	1	1	0	1	0	0	1	1	0	1	0	1	1.5	12.4		
6-Jul-07	A	1	1	1	1	1	1	1	7	5	5	1	0	2	2	1	0	1	1	2	1	1	6	1	2.1	7.4		
7-Jul-07	A	1	1	1	1	1	1	13	15	8	1	2	8	2	1	4	1	1	0	1	1	0	1	1	3.1	15.4		
8-Jul-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1.2	1.4		
9-Jul-07	A	1	2	1	1	2	1	0	1	1	0	1	1	0	6	19	11	10	5	4	1	1	0	0	3.2	19.2		
10-Jul-07	A	0	1	0	0	0	0	1	8	13	19	5	7	11	8	0	3	2	3	1	1	1	1	10	4.4	19.2		
11-Jul-07	A	1	1	0	0	0	13	26	7	3	2	3	8	5	7	4	1	1	2	1	2	1	2	1	3.9	25.5		
12-Jul-07	A	1	1	1	2	1	1	1	1	14	6	10	17	7	3	1	1	1	1	1	1	1	0	1	3.0	16.6		
13-Jul-07	A	1	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	2	2	1.3	1.7		
14-Jul-07	A	2	2	2	2	2	1	1	8	9	2	2	8	17	2	2	1	1	1	1	1	1	1	1	3.1	17.1		
15-Jul-07	A	1	1	1	1	1	1	1	1	1	2	1	1	1	1	0	1	0	1	0	1	0	1	1	1.1	1.8		
16-Jul-07	A	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1.2	1.9		
17-Jul-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1.1	1.3		
18-Jul-07	A	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	1.5		
19-Jul-07	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	
20-Jul-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	1	1	0	1	0	N	1.0	
21-Jul-07	A	1	1	1	0	1	1	1	2	7	36	17	17	6	16	8	3	7	2	1	1	1	1	1	1	5.5	35.6	
22-Jul-07	A	1	1	1	1	1	1	1	1	1	1	1	2	3	6	1	1	1	1	1	1	1	1	1	1	1.4	5.9	
23-Jul-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1.2	1.5		
24-Jul-07	A	1	1	1	1	1	1	3	11	15	13	4	8	6	12	12	8	9	4	12	22	22	15	1	7.9	22.1		
25-Jul-07	A	1	1	1	1	1	1	5	13	12	12	8	10	10	1	10	3	4	1	1	2	2	2	1	4.4	13.2		
26-Jul-07	A	1	1	2	1	1	1	1	1	1	C	C	C	C	C	C	C	C	1	1	1	1	1	1	N	1.9		
27-Jul-07	A	1	1	1	0	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1.0	2.0		
28-Jul-07	A	1	1	1	0	1	0	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0.9	1.2		
29-Jul-07	A	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	2	1	1	0	1	1	1	1	1.0	2.1		
30-Jul-07	A	1	1	1	1	1	1	2	2	3	1	2	2	5	5	8	9	16	9	1	1	1	1	1	3.2	15.9		
31-Jul-07	A	1	1	1	1	1	1	1	1	4	9	8	11	5	6	10	16	17	4	5	4	22	22	17	7.1	22.1		
Hourly Avg	N	1.1	1.0	1.0	1.0	1.0	1.5	2.9	3.7	4.9	4.5	3.1	4.7	4.0	3.6	3.9	3.0	3.4	2.2	1.9	2.1	2.3	2.3	1.8				
Hourly Max	0.0	2.3	2.4	1.9	1.7	1.7	13.1	25.5	15.4	15.0	35.6	16.9	16.6	17.1	15.7	19.2	15.7	17.1	9.4	11.9	22.1	21.8	22.1	17.3				

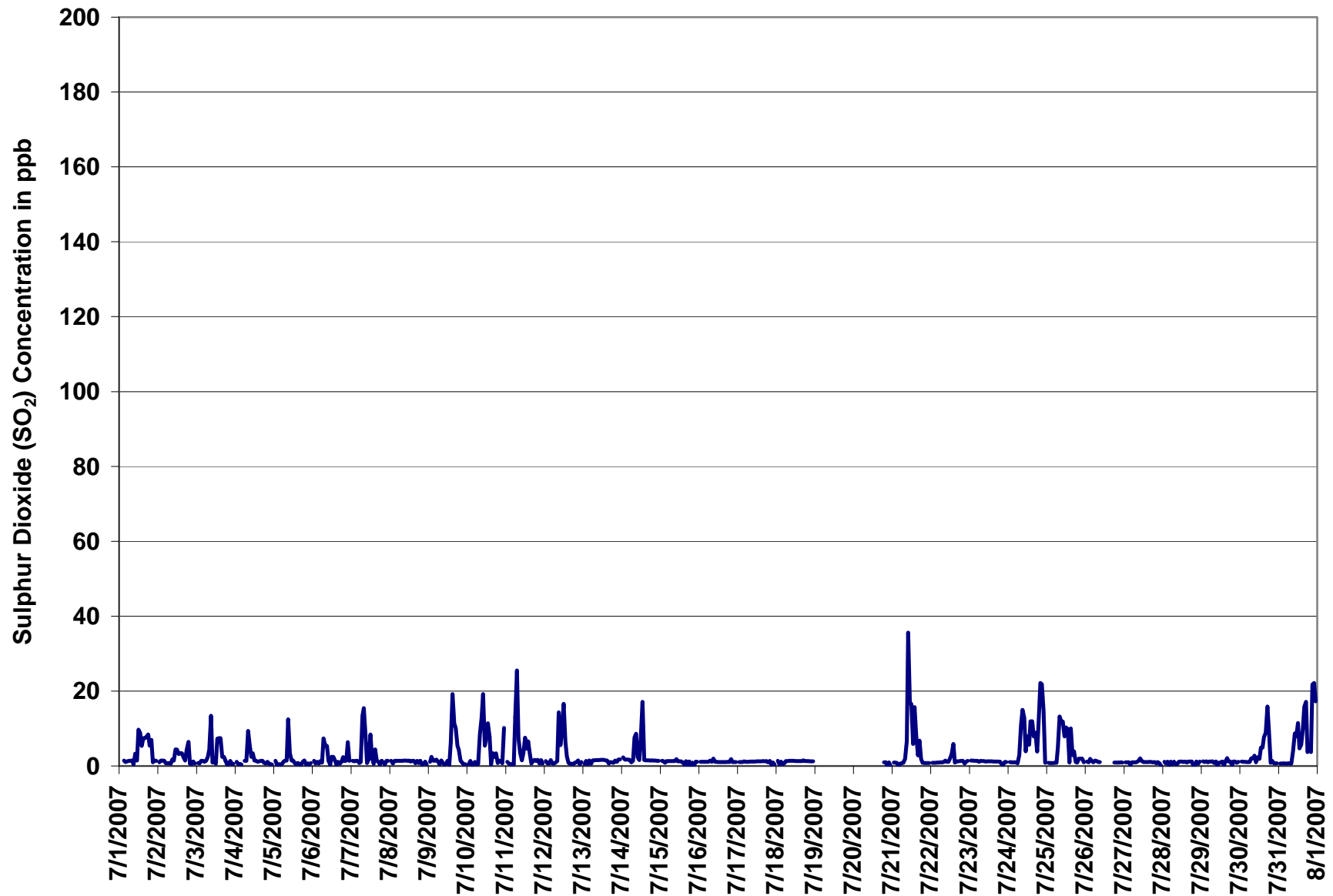
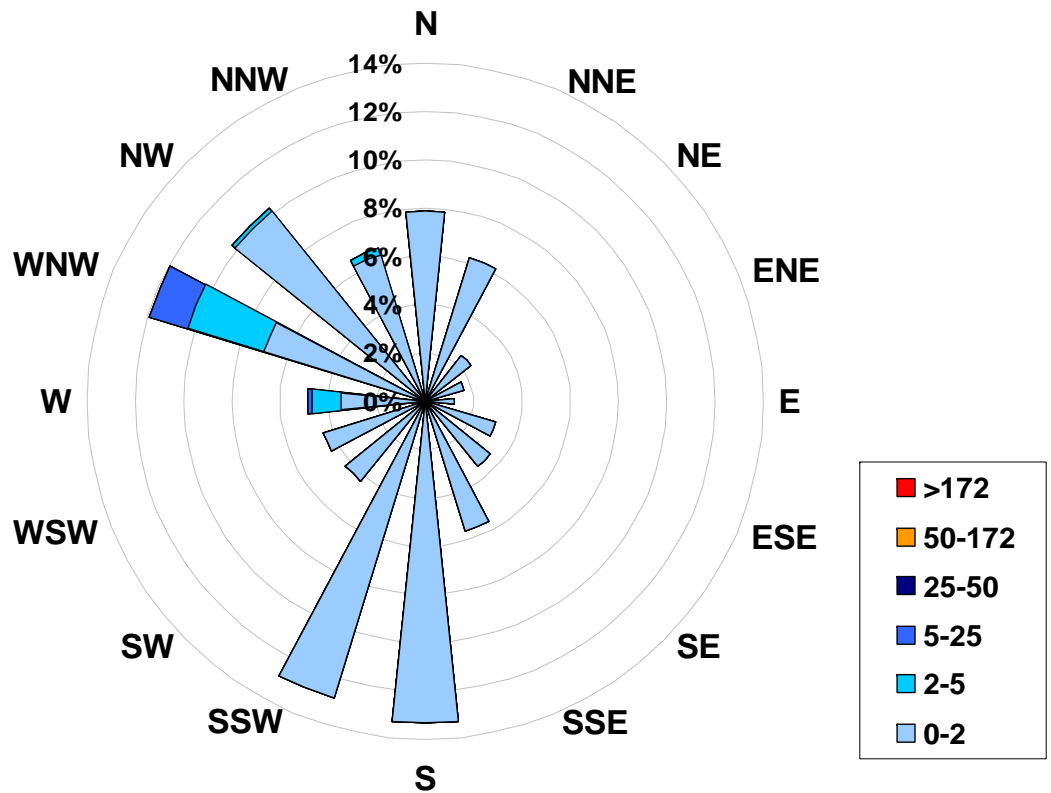


Figure 59. PASZA - Valleyview Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	614
2	to	5	33
5	to	25	12
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			661

PASZA - Valleyview Hydrogen Sulphide Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

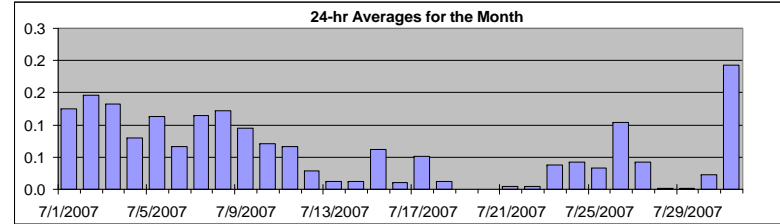
Hydrogen Sulphide (H₂S)

Monitoring Dates: July 1, 2007 to August 1, 2007

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

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	2.7 ppb 31-Jul 23:00 0:00
Maximum 24-hr Value:	0.2 ppb 31-Jul

AIC Time:	28 hrs	Operational Time:	664 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	93.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.1 ppb	0.0 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Jul-07	N	N	N	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2	
2-Jul-07	A	0.4	0.6	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	0.1	0.0	0.0	0.1	0.1	0.2	0.2	0.1	0.6
3-Jul-07	A	0.5	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	0.0	0.0	0.1	0.2	0.2	0.1	0.5	
4-Jul-07	A	0.1	0.2	0.1	0.2	P	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.2	
5-Jul-07	A	0.3	0.3	0.4	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.4
6-Jul-07	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7-Jul-07	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	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.3	
8-Jul-07	A	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
9-Jul-07	A	0.1	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	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3
10-Jul-07	A	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.1	0.1	0.1	0.2
11-Jul-07	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.1	0.4	
12-Jul-07	A	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
13-Jul-07	A	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
14-Jul-07	A	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
15-Jul-07	A	0.0	0.1	0.1	0.2	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	
16-Jul-07	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	
17-Jul-07	A	0.0	0.1	0.1	0.2	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	
18-Jul-07	A	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
19-Jul-07	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
20-Jul-07	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	0.1
21-Jul-07	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	
22-Jul-07	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23-Jul-07	A	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
24-Jul-07	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.2	0.2	0.1	0.0	0.0	0.0	0.2
25-Jul-07	A	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	
26-Jul-07	A	0.2	0.2	0.3	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.1	C	C	C	C	C	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	
27-Jul-07	A	0.1	0.2	0.1	0.2	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	
28-Jul-07	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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-Jul-07	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30-Jul-07	A	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
31-Jul-07	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	1.2	2.7	0.2	2.7	
Hourly Avg	N	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2			
Hourly Max	0.0	0.5	0.6	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.6	0.1	0.3	0.1	0.1	0.1	0.2	0.3	1.2	2.7			

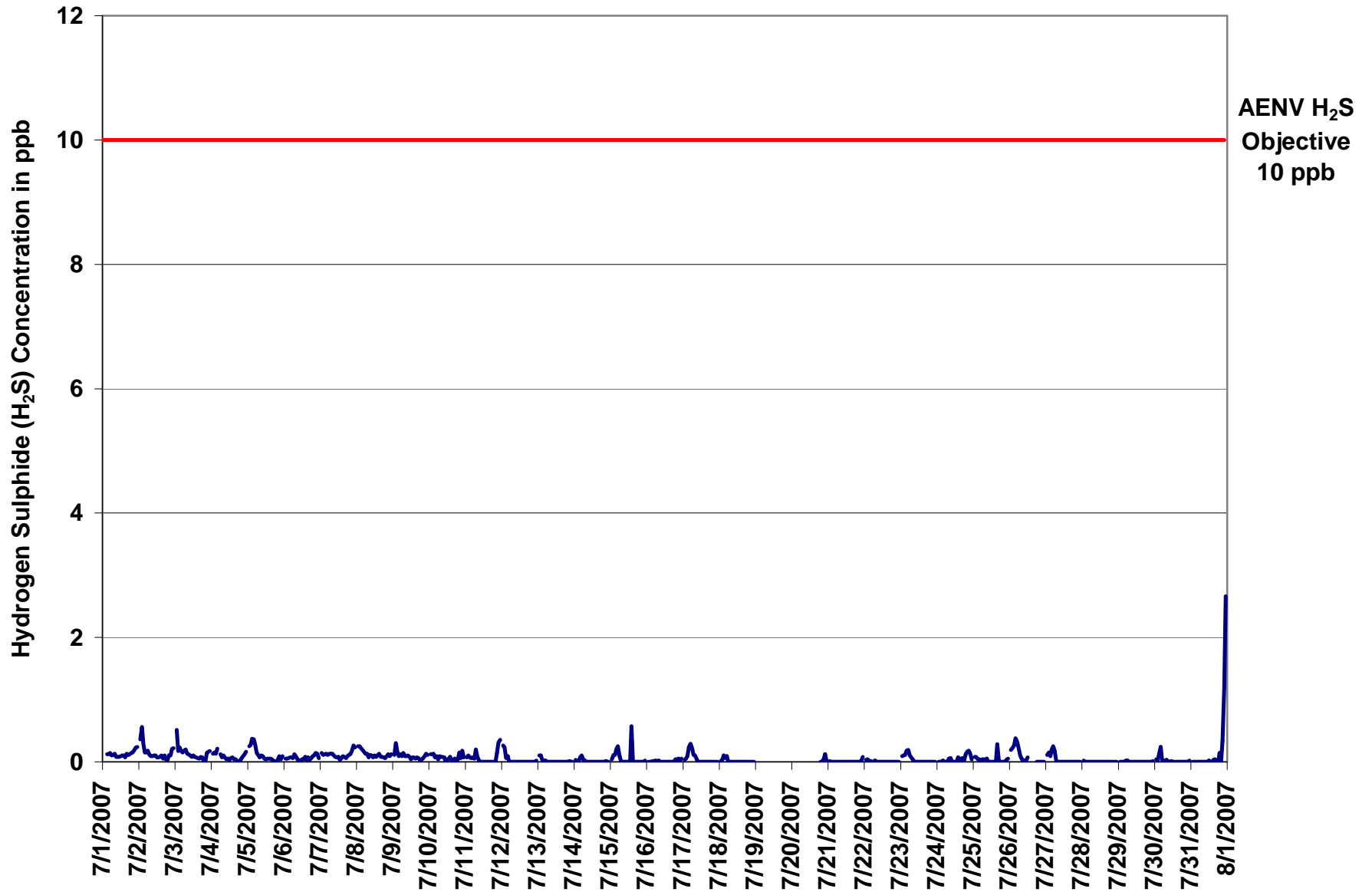


Figure 60. PASZA - Valleyview Hydrogen Sulphide 1-hr Average Monthly Trend

Station: Valleyview
 Station Owner: PASZA

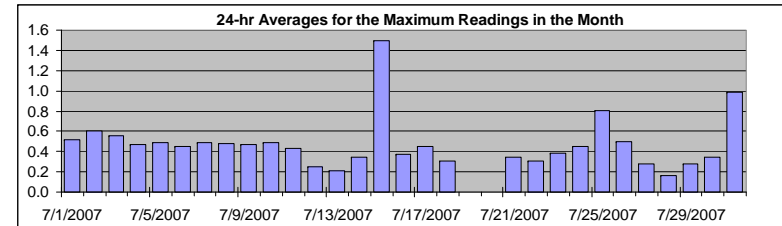
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Hydrogen Sulphide (H₂S)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Value:	26.4	ppb	15-Jul	14:00 15:00
Maximum 24-hr Value:	1.5	ppb	15-Jul	



AIC Time:	0 hrs	Operational Time:	664 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	89.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.8	0.7	0.5	0.4	0.3	0.1	0.0	0.5 ppb	0.4 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Jul-07	N	N	N	1	0	0	0	1	1	0	1	0	1	0	0	0	1	0	0	1	1	1	1	1	0.5	0.7	
2-Jul-07	A	1	2	1	0	1	1	0	1	0	0	0	0	0	0	1	0	0	1	1	1	0	1	1	0.6	1.9	
3-Jul-07	A	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0.6	1.3	
4-Jul-07	A	0	0	0	1	P	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0.5	1.3	
5-Jul-07	A	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0.5	0.9	
6-Jul-07	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0.5	0.6	
7-Jul-07	A	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0.5	0.7	
8-Jul-07	A	1	1	0	1	1	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.5	0.7	
9-Jul-07	A	0	1	1	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0.5	0.9	
10-Jul-07	A	1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	1	0	0.5	1.6	
11-Jul-07	A	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.4	0.8	
12-Jul-07	A	1	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.7	
13-Jul-07	A	1	1	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	
14-Jul-07	A	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.3	0.6	
15-Jul-07	A	0	1	1	1	1	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	1.5	26.4	
16-Jul-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4	0.5	
17-Jul-07	A	1	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.5	
18-Jul-07	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6	
19-Jul-07	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
20-Jul-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0	0	0	1	1	N	0.6
21-Jul-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
22-Jul-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
23-Jul-07	A	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.4	0.7	
24-Jul-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0	0.5	1.0	
25-Jul-07	A	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	11	0	0	0	0	0	0	0	0.8	10.5	
26-Jul-07	A	1	1	1	1	1	2	0	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0.5	1.8	
27-Jul-07	A	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.3	1.1	
28-Jul-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
29-Jul-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
30-Jul-07	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9	
31-Jul-07	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	2	1	1	6	6	1.0	6.3	
Hourly Avg	N	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	1.3	0.3	0.7	0.3	0.3	0.4	0.4	0.5	0.6	0.6			
Hourly Max	0.0	1.3	1.9	1.1	1.7	1.1	1.8	0.7	0.7	1.5	0.6	0.5	0.6	0.5	26.4	1.3	10.5	0.5	0.8	1.6	1.0	1.2	5.6	6.3			

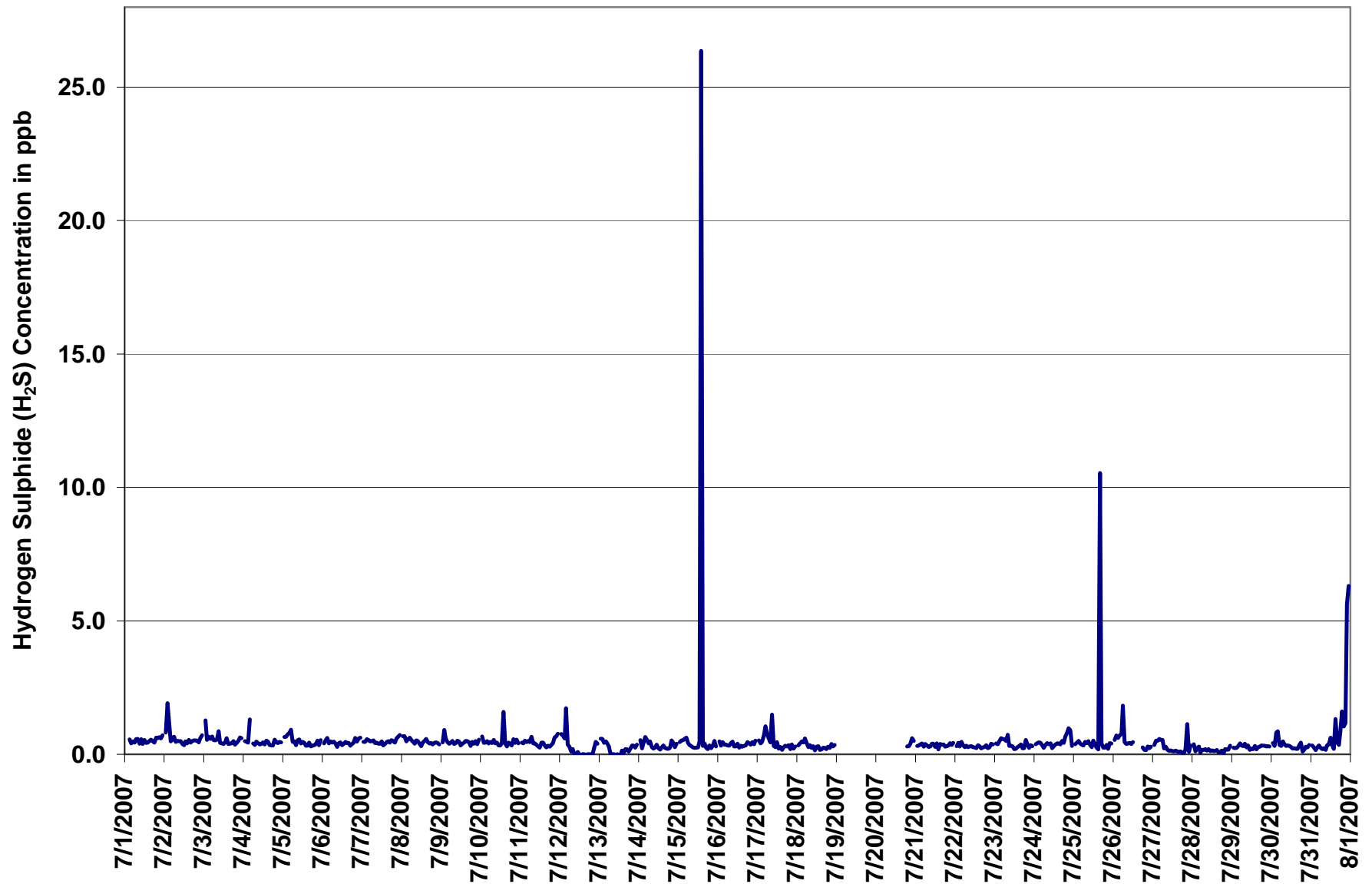
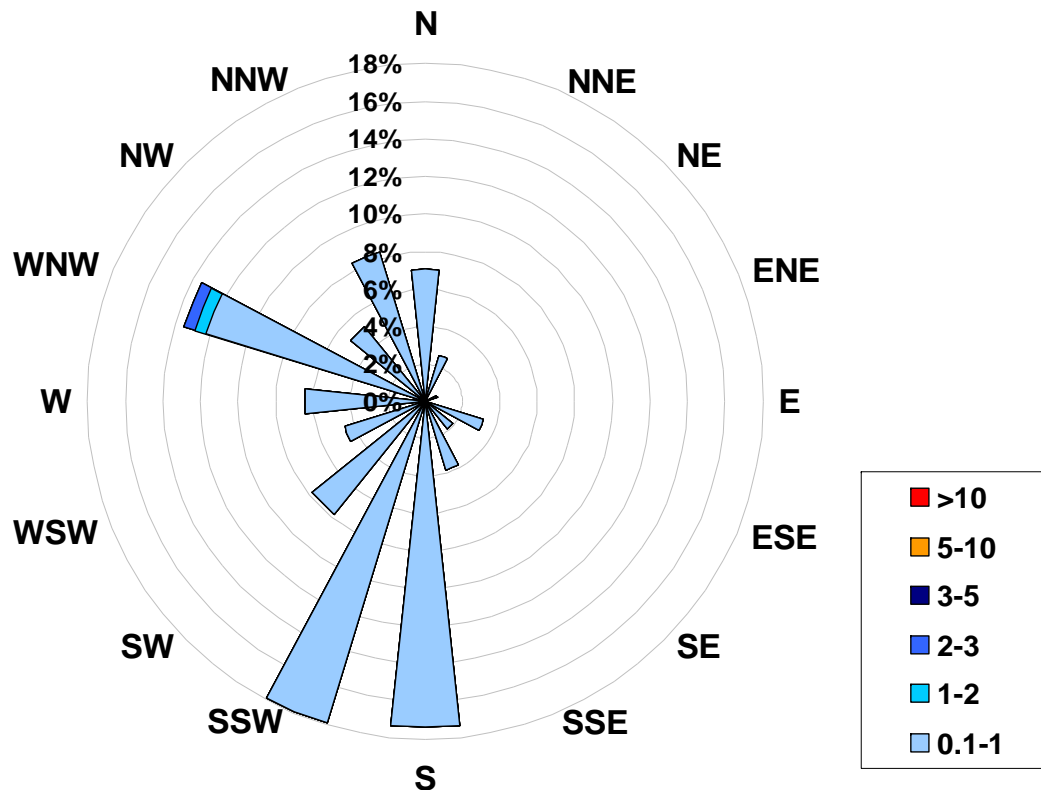


Figure 61. PASZA - Valleyview Hydrogen Sulphide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of H ₂ S in ppb			Frequency (hrs)
Range			
0.1	<	1	662
1	to	2	1
2	to	3	1
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			664

PASZA - Valleyview Relative Humidity Monthly Summary

Station: Valleyview
 Station Owner: PASZA

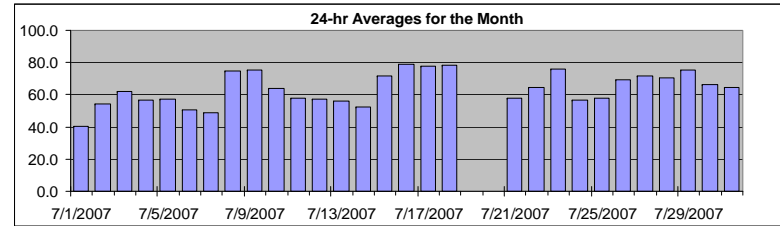
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	98.9	%	17-Jul	5:00 6:00
Maximum 24-hr Value:	78.9	%	16-Jul	



AIC Time:	0 hrs	Operational Time:	697 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	93.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	98.2	95.0	83.7	63.9	44.8	31.0	25.1	63.8 %	63.9 %

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	23:00				
1-Jul-07	N	N	N	62	64	62	58	51	43	37	32	30	28	26	25	24	24	26	27	28	33	42	55	74	40.4	73.7		
2-Jul-07	84	91	93	78	73	77	75	63	49	40	35	34	32	32	33	32	32	32	32	35	42	60	76	81	54.5	92.5		
3-Jul-07	85	91	91	94	94	89	85	70	52	46	46	50	49	44	39	40	39	40	41	42	46	57	76	81	61.9	94.2		
4-Jul-07	83	82	84	86	89	P	74	66	57	52	47	43	43	41	41	36	34	34	34	40	47	54	63	72	56.6	88.8		
5-Jul-07	76	79	88	91	87	86	81	71	64	51	46	42	40	37	33	31	32	38	40	47	44	49	58	65	57.3	90.6		
6-Jul-07	74	78	76	78	84	85	80	71	57	42	33	32	27	28	30	31	32	32	34	35	39	44	44	46	50.5	84.5		
7-Jul-07	50	58	66	77	84	76	60	47	42	41	40	37	35	34	31	30	29	26	25	29	40	67	72	75	48.7	83.5		
8-Jul-07	83	92	96	95	92	87	78	71	65	59	48	42	41	56	70	66	63	72	74	81	87	92	91	91	74.6	95.5		
9-Jul-07	92	94	91	84	90	91	87	85	85	82	77	70	68	61	57	57	49	50	49	51	63	84	92	92	75.1	94.2		
10-Jul-07	93	92	90	89	88	83	79	79	68	56	52	49	46	44	43	44	45	46	49	55	57	62	70	57	64.0	93.1		
11-Jul-07	71	82	80	78	77	76	69	55	50	47	44	42	39	39	37	35	34	34	38	50	62	69	86	92	57.7	92.1		
12-Jul-07	92	96	92	92	94	89	78	69	61	42	35	33	31	30	30	29	27	28	29	32	42	57	77	91	57.2	95.8		
13-Jul-07	91	95	96	97	98	93	85	76	64	53	45	38	34	29	25	24	22	22	26	32	39	50	54	57	56.1	97.9		
14-Jul-07	59	68	74	78	81	88	81	66	56	46	43	37	32	32	30	28	31	37	34	37	42	51	61	67	52.4	87.9		
15-Jul-07	75	79	87	87	91	91	82	77	69	62	57	56	53	55	56	56	56	52	55	61	83	90	94	95	71.6	95.3		
16-Jul-07	97	98	98	98	98	98	93	87	82	73	64	54	51	49	50	54	60	62	78	87	87	92	92	93	78.9	98.3		
17-Jul-07	95	96	96	98	98	99	98	94	82	74	67	63	57	56	55	52	56	65	68	69	82	87	81	84	78.0	98.9		
18-Jul-07	89	95	95	97	98	98	94	90	79	73	68	67	66	63	66	71	70	68	67	70	73	74	73	77	78.4	98.3		
19-Jul-07	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	
20-Jul-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	48	69	82	78	68	N	82.0	
21-Jul-07	71	80	74	79	80	78	72	69	55	46	40	38	35	36	36	35	34	35	36	44	62	73	87	93	57.8	93.2		
22-Jul-07	93	93	91	91	93	93	89	87	74	62	55	49	39	35	34	37	38	42	56	47	55	60	67	73	64.6	93.2		
23-Jul-07	81	88	90	93	94	94	89	84	77	68	56	55	52	52	54	64	74	73	80	88	82	73	79	85	76.0	94.1		
24-Jul-07	88	90	90	90	89	88	80	70	62	51	48	42	39	34	35	32	33	33	33	36	41	46	50	61	56.8	90.3		
25-Jul-07	70	74	79	80	79	79	71	61	50	44	45	43	42	39	37	36	35	34	35	40	55	78	91	94	57.9	94.1		
26-Jul-07	96	97	97	98	98	98	92	82	70	62	58	55	52	41	36	33	39	45	49	53	61	70	85	93	69.2	98.2		
27-Jul-07	93	94	96	96	97	97	93	83	72	60	55	50	51	51	47	46	47	53	53	58	65	80	89	91	71.6	97.2		
28-Jul-07	95	94	93	90	93	82	82	84	80	69	61	58	57	51	46	52	41	48	51	56	66	74	84	86	70.7	95.3		
29-Jul-07	90	89	94	95	95	97	90	86	84	77	76	64	60	58	53	50	50	53	61	67	70	79	84	82	75.1	96.8		
30-Jul-07	86	87	92	89	87	91	90	80	76	70	66	63	58	52	43	39	34	31	32	36	51	68	87	87	66.5	91.8		
31-Jul-07	85	86	83	83	86	86	78	70	54	45	44	49	58	72	66	54	51	52	52	55	58	61	64	64	64.8	86.4		
Hourly Avg	83.4	87.1	88.3	87.7	88.6	87.5	81.4	73.9	64.8	56.2	51.2	47.8	45.3	44.0	42.7	42.0	41.7	43.6	46.1	50.3	58.1	67.3	75.4	78.9				
Hourly Max	96.7	98.1	98.2	98.2	98.4	98.9	98.5	93.8	84.6	82.3	77.3	70.2	68.1	72.0	70.0	71.3	74.1	72.7	80.0	87.8	87.3	92.1	94.4	95.3				

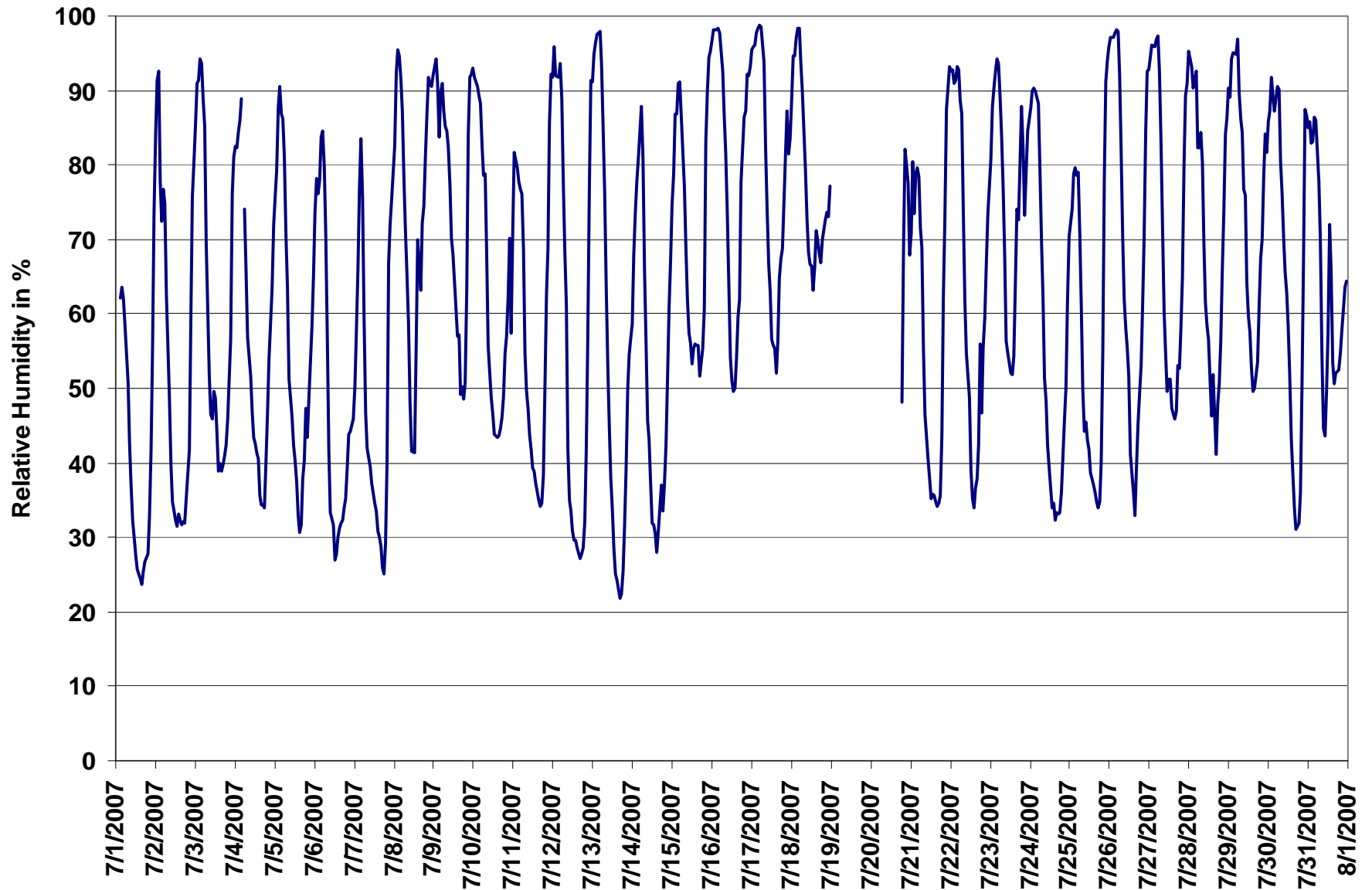


Figure 62. PASZA - Valleyview Relative Humidity 1-hr Average Monthly Trend

PASZA - Valleyview Temperature Monthly Summary

Station: Valleyview
 Station Owner: PASZA

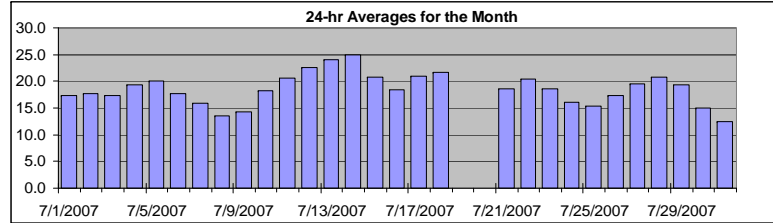
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	33.2	°C	13-Jul	17:00 18:00
Maximum 24-hr Value:	24.9	°C	14-Jul	



AIC Time:	0 hrs	Operational Time:	697 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	93.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	30.5	26.9	22.7	18.5	14.4	10.2	7.7	18.6 °C	18.5 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Jul-07	N	N	N	10	9	10	12	14	16	18	18	19	20	21	21	22	22	22	22	21	20	18	15	14	17.4	22.2	
2-Jul-07	12	10	10	11	11	11	12	16	19	20	21	22	23	22	23	23	23	23	23	23	21	18	15	14	17.8	23.3	
3-Jul-07	13	12	11	11	10	11	12	16	19	20	20	19	20	21	22	22	22	23	23	22	21	18	15	14	17.4	22.8	
4-Jul-07	14	14	13	12	12	P	14	17	18	19	20	20	21	22	23	23	25	25	25	25	22	20	19	17	19.3	24.7	
5-Jul-07	16	15	13	12	12	13	15	18	20	22	23	24	25	25	26	27	27	26	26	24	23	19	17	15	20.1	26.5	
6-Jul-07	14	13	13	13	13	13	14	15	17	19	19	20	21	21	22	22	22	22	22	21	19	18	17	16	17.7	22.0	
7-Jul-07	14	13	11	9	8	9	12	15	16	17	18	18	19	20	20	20	21	21	21	20	20	16	13	11	16.0	21.1	
8-Jul-07	10	9	8	7	7	8	10	12	14	17	19	20	19	17	15	16	16	16	16	15	15	14	13	12	13.5	19.7	
9-Jul-07	12	11	11	12	11	11	11	12	12	13	14	15	15	15	17	17	18	19	19	19	18	14	13	12	14.3	19.2	
10-Jul-07	12	12	12	12	13	14	14	15	17	18	19	20	21	22	22	23	23	23	23	23	21	20	18	19	18.2	23.4	
11-Jul-07	17	15	15	14	14	14	16	20	21	22	23	24	24	25	25	26	26	27	26	24	22	21	18	16	20.7	26.5	
12-Jul-07	15	14	14	14	13	14	16	19	22	24	26	27	28	29	29	30	30	30	30	30	28	24	20	17	22.6	29.8	
13-Jul-07	16	14	13	13	12	13	15	18	21	25	27	29	30	31	32	33	33	33	32	31	29	25	25	24	24.0	33.2	
14-Jul-07	24	23	22	20	20	18	20	22	24	25	26	28	29	29	30	30	30	29	29	29	27	24	22	21	24.9	30.4	
15-Jul-07	20	18	17	16	16	15	17	19	21	23	25	26	26	26	26	25	26	26	26	24	16	15	14	14	20.7	26.1	
16-Jul-07	14	13	13	13	13	13	14	16	17	20	22	23	24	25	25	25	24	24	19	18	18	17	17	16	18.5	25.3	
17-Jul-07	16	16	16	15	14	14	15	16	19	21	23	24	26	26	27	27	27	26	25	24	22	21	21	21	20.9	27.1	
18-Jul-07	20	19	19	17	17	17	18	19	21	22	23	23	24	26	25	23	23	24	25	24	24	23	23	22	21.7	25.6	
19-Jul-07	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
20-Jul-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	22	20	17	17	17	N	22.2
21-Jul-07	16	14	14	14	13	13	14	16	18	19	20	21	22	22	23	24	24	24	24	25	23	20	17	16	15	18.6	24.7
22-Jul-07	14	14	14	14	14	13	14	15	18	20	22	24	26	27	27	27	27	27	26	26	23	22	20	19	20.4	27.1	
23-Jul-07	17	16	16	15	15	15	16	17	19	21	22	22	22	23	23	23	22	21	20	19	19	18	16	16	15	18.6	23.1
24-Jul-07	14	14	14	14	14	13	14	15	15	16	17	18	19	19	18	19	19	19	19	18	17	15	14	12	16.0	19.1	
25-Jul-07	10	9	9	8	8	8	10	13	15	16	17	18	19	20	21	21	22	22	22	21	20	16	13	12	15.4	22.1	
26-Jul-07	11	10	9	8	7	7	9	12	15	18	20	21	23	25	26	27	26	25	25	23	21	19	17	15	17.3	27.0	
27-Jul-07	14	14	13	13	12	12	13	16	19	22	24	25	25	24	25	25	25	24	24	23	22	20	18	17	19.6	25.2	
28-Jul-07	16	16	16	17	16	17	17	17	19	21	22	23	24	25	26	26	26	26	25	24	22	21	19	18	20.8	26.3	
29-Jul-07	17	17	16	15	14	14	16	17	17	19	20	22	23	23	24	25	25	24	22	21	20	18	17	15	19.3	25.0	
30-Jul-07	14	13	13	13	12	12	12	13	13	14	15	16	17	18	19	20	20	20	19	19	17	13	11	10	15.1	19.8	
31-Jul-07	9	9	8	9	8	8	9	12	14	15	15	15	13	12	13	15	15	15	15	15	15	14	14	13	12.5	15.4	
Hourly Avg	14.7	13.8	13.3	12.8	12.3	12.5	13.9	15.8	17.8	19.5	20.7	21.6	22.4	22.9	23.3	23.7	23.7	23.6	23.2	22.3	20.6	18.5	16.8	15.8			
Hourly Max	24.1	22.8	21.5	20.5	19.8	18.2	19.6	21.7	23.5	24.9	27.4	28.9	30.0	31.0	31.8	32.6	33.0	33.2	32.5	30.9	28.6	25.4	24.6	24.4			

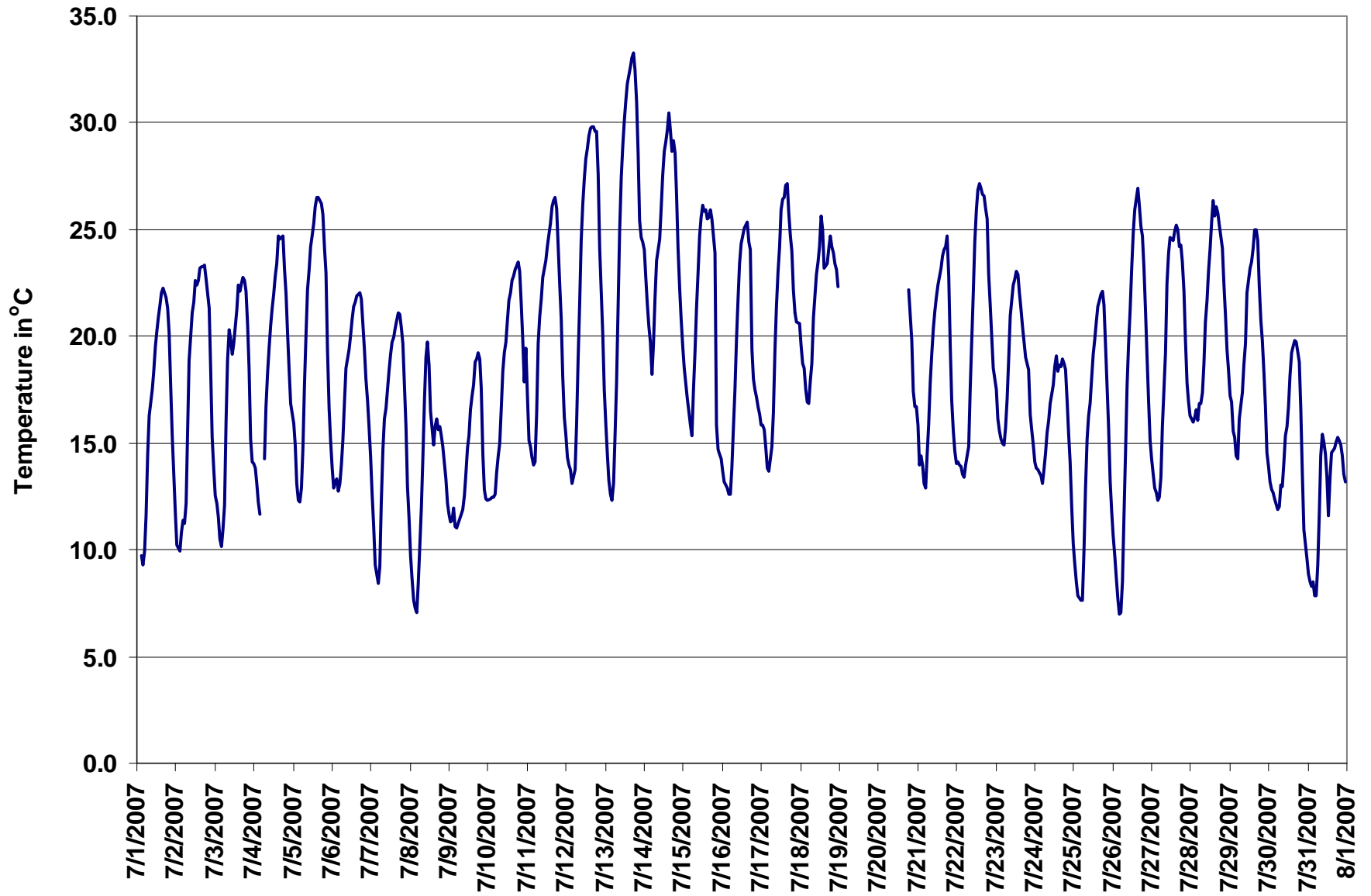


Figure 63. PASZA - Valleyview Temperature 1-hr Average Monthly Trend

PASZA - Valleyview Scalar Wind Speed Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

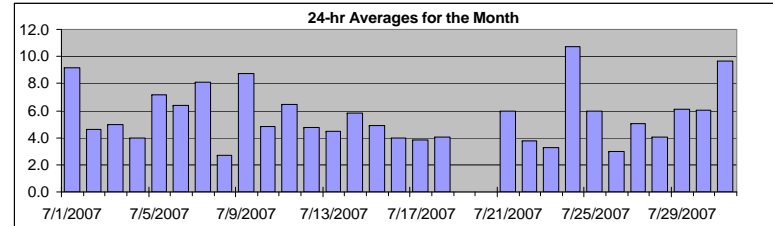
Wind Speed (WSs)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	22.1	km/hr	29-Jul	23:00 0:00
Maximum 24-hr Value:	10.7	km/hr	24-Jul	

Calm Time:	0 hrs	0% calms	Operational Time:	697 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	93.7%				
Percentile	99	95	75	50	25	5	1	AverageS
	17.4	13.6	8.0	4.2	2.5	1.3	1.0	5.6 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max			
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-07	N	N	N	8	8	7	5	6	9	12	15	13	15	14	13	13	13	13	11	10	9	5	3	3	2	9.2	14.7	
2-Jul-07	2	1	1	4	2	2	3	3	2	4	3	4	5	9	9	10	11	12	8	7	3	2	2	2	4.6	11.7		
3-Jul-07	2	2	3	2	3	3	2	2	3	5	9	10	6	2	6	10	12	9	9	8	6	2	2	2	5.0	11.5		
4-Jul-07	3	2	3	3	2	P	4	3	8	6	6	7	6	7	4	3	5	4	4	2	2	3	2	2	4.0	7.6		
5-Jul-07	1	1	1	1	2	2	4	4	4	10	13	12	12	12	10	10	12	8	7	8	11	14	8	4	7.2	13.8		
6-Jul-07	3	3	4	3	2	3	3	3	4	8	14	11	11	10	12	13	10	9	6	5	4	4	5	3	6.4	13.7		
7-Jul-07	3	3	3	3	3	3	5	12	14	19	16	14	13	13	12	11	10	11	11	6	2	1	3	4	8.1	18.7		
8-Jul-07	2	1	2	1	1	1	1	2	3	2	3	3	3	5	5	5	4	4	3	2	1	1	2	4	3	2.7	5.3	
9-Jul-07	3	2	6	12	8	11	13	12	12	11	13	12	11	12	12	12	14	11	8	7	2	2	2	3	8.7	14.2		
10-Jul-07	3	3	3	4	2	3	3	2	3	6	6	8	8	8	9	9	7	8	4	3	3	5	3	3	8	4.8	9.3	
11-Jul-07	3	3	3	4	3	4	4	12	16	15	11	10	10	9	10	8	9	8	6	2	2	1	1	2	6.5	15.7		
12-Jul-07	1	1	3	3	2	2	4	4	3	6	6	8	10	8	7	9	10	9	8	3	3	1	2	2	4.7	10.1		
13-Jul-07	2	1	1	2	1	1	1	3	2	3	5	6	7	8	8	7	8	6	8	5	4	5	5	6	4.4	8.3		
14-Jul-07	6	5	3	4	2	2	2	4	5	9	8	9	10	9	8	9	9	5	7	5	3	5	6	4	5.9	9.8		
15-Jul-07	2	2	3	3	2	2	1	2	3	3	4	2	5	4	7	8	8	9	9	15	9	5	5	3	4.9	14.9		
16-Jul-07	4	3	4	3	3	3	3	2	3	3	3	3	4	4	5	7	8	8	7	5	5	2	3	2	4.0	8.2		
17-Jul-07	3	2	1	3	2	1	1	2	1	2	4	6	4	7	6	5	5	4	5	4	4	5	10	4	3.8	10.0		
18-Jul-07	3	2	1	2	2	3	2	3	3	6	6	6	5	4	8	6	6	5	7	4	2	3	5	4	4.1	8.3		
19-Jul-07	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	
20-Jul-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	2	2	2	3	3	N	3.5	
21-Jul-07	3	4	3	3	3	3	3	3	5	11	13	13	14	13	9	8	7	5	3	3	5	3	2	2	5.9	14.3		
22-Jul-07	3	2	2	2	1	3	2	2	4	5	5	5	5	6	7	7	6	2	2	4	8	3	3	4	3.8	7.6		
23-Jul-07	2	2	2	2	2	1	2	2	2	2	3	4	3	3	3	3	5	5	3	1	9	13	2	2	3.3	13.0		
24-Jul-07	3	4	3	3	3	2	4	8	10	17	15	15	15	19	19	21	22	16	17	11	10	10	7	4	10.7	22.0		
25-Jul-07	3	4	3	4	3	4	5	5	10	15	13	9	9	10	7	6	8	8	6	4	2	2	2	2	5.9	15.2		
26-Jul-07	1	1	1	2	1	1	2	2	2	2	2	3	4	6	4	4	6	9	6	5	4	2	1	2	3.0	9.5		
27-Jul-07	1	1	2	1	2	1	4	5	4	4	5	9	15	12	11	11	10	7	6	2	2	1	2	1	5.0	15.2		
28-Jul-07	2	3	3	4	5	4	2	3	4	4	2	2	4	5	5	6	8	10	6	5	3	5	2	3	4.1	9.7		
29-Jul-07	2	2	2	2	4	1	1	1	5	5	6	4	6	7	7	7	9	10	8	9	5	10	9	22	6.1	22.1		
30-Jul-07	15	9	5	5	5	3	3	5	3	5	5	6	4	6	6	10	14	13	10	6	2	2	2	3	6.0	15.0		
31-Jul-07	3	3	3	3	3	4	4	4	7	12	14	13	17	9	7	18	16	12	15	15	14	11	11	13	9.6	17.6		
1-hr Average	3.0	2.7	2.6	3.1	2.9	2.8	3.2	4.2	5.3	7.3	7.8	7.8	8.4	8.4	8.2	8.8	9.4	8.1	7.2	5.5	4.6	4.2	3.9	4.0				
Hourly Max	15.0	9.2	6.1	11.7	8.3	10.7	13.4	12.5	15.7	18.7	15.9	15.4	17.4	19.0	19.5	21.0	22.0	16.2	16.7	14.9	13.8	13.8	11.5	22.1				

PASZA - Valleyview Vector Wind Speed Monthly Summary

Station: Valleyview
 Station Owner: PASZA

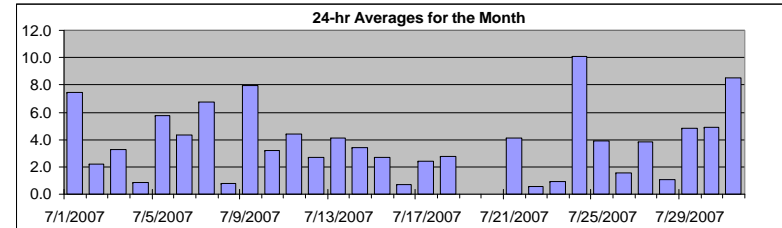
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Maximum 1-hr Average:	21.9	km/hr	29-Jul	23:00 0:00
Maximum 24-hr Value:	10.1	km/hr	24-Jul	



Calm Time:	0 hrs	0% calms	Operational Time:	697 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	93.7%				
Percentile	99	95	75	50	25	5	1	AverageV
	16.9	13.1	7.5	3.6	1.9	0.7	0.3	5.7 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																							24-hr 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-Jul-07	N	N	N	8	8	7	5	5	8	12	14	13	14	13	12	13	13	11	10	9	4	2	1	2	7.5	14.4	
2-Jul-07	2	1	0	4	2	2	3	3	2	3	1	1	3	8	8	10	11	11	8	7	3	1	1	1	2.2	11.4	
3-Jul-07	0	2	3	2	3	2	2	1	2	4	8	10	6	1	5	9	11	9	9	8	6	2	2	2	3.3	11.0	
4-Jul-07	2	2	2	3	2	P	4	3	7	6	5	6	5	6	3	2	4	4	3	2	2	3	2	2	0.9	7.0	
5-Jul-07	1	1	0	0	2	1	2	4	4	9	12	12	11	11	9	9	12	8	7	7	11	13	8	3	5.7	13.1	
6-Jul-07	3	3	4	3	2	3	3	2	3	7	13	11	10	9	11	12	10	8	5	5	4	4	3	3	4.3	13.1	
7-Jul-07	3	3	3	2	2	3	4	12	14	18	16	13	12	12	11	9	9	10	11	6	1	1	2	1	6.8	18.4	
8-Jul-07	2	1	2	1	1	0	1	2	2	2	3	1	3	4	4	4	4	2	1	1	1	2	3	2	0.8	4.1	
9-Jul-07	1	1	5	12	8	10	13	12	12	11	12	11	11	11	12	11	14	10	8	7	2	2	2	3	7.9	13.7	
10-Jul-07	3	3	3	4	2	3	3	2	5	5	7	7	8	9	7	7	4	2	2	5	3	2	2	8	3.2	8.7	
11-Jul-07	2	3	3	4	3	4	3	12	15	14	11	9	9	8	9	7	9	7	5	1	2	1	1	2	4.4	15.4	
12-Jul-07	1	1	2	3	2	2	4	4	3	5	6	7	9	7	5	8	10	8	8	3	2	0	1	1	2.7	9.6	
13-Jul-07	1	1	1	1	1	0	1	3	2	3	5	6	7	8	8	7	8	6	8	5	4	5	5	5	4.1	8.2	
14-Jul-07	6	1	3	3	1	1	2	4	4	9	8	8	9	9	8	8	9	4	7	5	2	5	6	4	3.4	8.9	
15-Jul-07	1	2	2	2	1	1	0	2	2	3	2	5	4	7	8	8	9	9	15	5	3	2	2	2	2.7	14.7	
16-Jul-07	4	3	4	2	3	2	3	2	2	2	2	2	1	3	4	7	8	5	6	4	4	0	2	2	0.7	8.0	
17-Jul-07	1	2	0	2	2	1	1	2	0	1	3	5	3	6	5	5	4	4	5	3	4	5	10	2	2.4	9.9	
18-Jul-07	1	1	0	1	0	2	2	1	2	6	5	5	4	4	8	6	6	5	6	4	2	3	5	2	2.8	8.0	
19-Jul-07	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	
20-Jul-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	1	1	2	2	3	N	3.1	
21-Jul-07	2	4	3	2	3	3	2	3	5	11	13	13	14	12	8	7	6	5	2	3	5	1	1	2	4.1	13.9	
22-Jul-07	3	1	2	1	1	3	2	1	4	5	4	5	4	4	7	6	5	2	1	3	7	3	3	2	0.6	7.5	
23-Jul-07	2	1	0	1	1	1	2	1	1	1	3	2	3	2	3	1	5	5	1	1	9	13	1	2	0.9	12.7	
24-Jul-07	2	4	2	3	2	2	4	7	9	17	15	15	15	18	19	21	22	16	17	11	10	10	7	3	10.1	21.6	
25-Jul-07	3	4	3	4	3	3	5	4	9	15	12	8	8	9	5	5	7	8	5	4	1	2	2	2	3.9	14.8	
26-Jul-07	1	1	1	2	1	1	1	1	1	0	1	2	3	6	2	3	5	9	6	4	4	2	0	0	1.6	9.2	
27-Jul-07	1	1	1	1	2	0	3	5	4	3	2	8	15	11	11	11	10	7	5	2	2	1	2	1	3.8	15.0	
28-Jul-07	0	3	1	0	1	3	1	2	4	4	2	1	3	4	4	5	7	9	6	5	2	4	0	2	1.1	9.5	
29-Jul-07	2	1	0	1	3	1	1	1	4	5	5	2	4	6	6	7	8	9	8	6	5	9	7	22	4.9	21.9	
30-Jul-07	14	9	4	5	4	3	3	3	2	4	4	5	3	3	5	10	13	12	10	5	1	1	2	1	4.9	13.7	
31-Jul-07	3	3	2	3	2	4	4	4	6	12	14	12	17	9	6	17	16	12	15	14	14	11	11	13	8.5	17.2	
1-hr Vector	1.7	1.7	1.9	1.8	1.3	1.4	1.8	2.2	2.9	4.6	4.9	4.8	5.4	4.8	4.8	5.6	6.3	4.7	3.9	3.3	1.8	1.7	0.8	1.6			
Hourly Max	13.7	8.9	5.4	11.5	8.1	10.4	13.3	12.2	15.4	18.4	15.6	15.1	16.8	18.3	18.9	20.5	21.6	16.0	16.5	14.7	13.7	13.1	11.3	21.9			

PASZA - Valleyview Wind Direction Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	697 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	93.7%				
Percentile	99	95	75	50	25	5	1	Average
	356.2	344.2	292.9	199.9	157.9	12.9	3.6	297 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	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	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-Jul-07	N	N	N	193	187	191	193	218	242	252	264	262	279	271	267	270	276	300	303	298	270	258	120	186	260	W	
2-Jul-07	186	177	114	181	196	196	200	186	146	103	162	320	287	308	298	315	311	335	327	341	351	169	215	197	299	WNW	
3-Jul-07	113	186	185	194	191	195	208	181	315	330	335	333	339	216	291	305	312	309	319	327	323	300	195	184	306	NW	
4-Jul-07	193	196	201	192	174	P	184	206	295	315	297	304	335	350	66	85	53	111	90	66	69	19	11	3	342	NNW	
5-Jul-07	48	143	276	334	320	244	227	191	202	285	303	318	333	351	337	340	344	20	14	14	353	345	356	353	336	NNW	
6-Jul-07	200	211	205	195	177	185	193	221	246	282	312	310	307	311	312	349	345	2	334	300	287	251	261	233	301	WNW	
7-Jul-07	235	226	195	167	181	199	240	275	300	295	311	314	304	317	324	310	316	322	323	330	344	184	7	302	303	WNW	
8-Jul-07	196	172	200	197	242	240	168	170	171	151	133	88	116	242	351	5	356	89	114	147	142	174	22	112	128	SE	
9-Jul-07	273	211	276	300	299	310	322	325	324	319	334	331	311	318	309	297	298	294	306	305	231	172	194	193	308	NW	
10-Jul-07	192	187	193	191	179	186	194	177	251	284	269	290	303	305	321	327	314	296	18	232	268	244	215	274	275	W	
11-Jul-07	206	164	189	182	179	182	239	288	293	297	319	311	309	318	318	309	326	346	6	82	170	232	175	200	300	WNW	
12-Jul-07	181	186	190	195	199	196	189	193	195	285	301	284	294	295	296	311	345	353	4	358	11	346	207	181	299	WNW	
13-Jul-07	210	204	203	203	205	240	233	184	178	183	172	163	152	142	139	137	135	145	137	158	154	167	184	174	158	SSE	
14-Jul-07	180	184	192	207	199	67	184	183	256	300	309	313	307	299	313	327	326	343	336	357	18	7	13	360	312	NW	
15-Jul-07	218	200	32	17	10	337	42	174	179	121	111	162	28	11	10	13	21	16	5	344	67	237	323	226	15	NNE	
16-Jul-07	182	164	191	169	190	180	170	168	33	182	348	3	53	76	25	348	14	63	148	359	312	211	195	197	79	E	
17-Jul-07	137	157	210	166	344	344	15	29	309	174	141	152	168	138	152	143	92	72	46	104	155	176	153	282	139	SE	
18-Jul-07	69	41	120	345	357	16	158	209	170	186	181	189	208	184	159	151	141	141	143	164	135	110	130	44	153	SSE	
19-Jul-07	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	-
20-Jul-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	196	170	195	223	238	N	-
21-Jul-07	200	178	174	188	196	204	205	186	259	280	282	270	274	290	285	292	308	299	355	51	174	210	190	169	265	W	
22-Jul-07	183	162	169	199	197	164	159	108	148	175	194	192	243	248	314	9	18	49	181	305	343	3	320	3	262	W	
23-Jul-07	237	196	232	120	225	215	185	187	13	26	32	20	356	351	357	184	181	180	186	284	305	331	225	219	290	WNW	
24-Jul-07	207	247	215	206	192	220	255	267	278	286	276	266	275	280	283	283	295	292	296	293	282	282	268	215	278	W	
25-Jul-07	199	185	193	192	202	164	194	245	288	292	298	282	287	309	290	293	304	325	343	32	162	197	189	193	279	W	
26-Jul-07	196	201	184	5	357	219	207	161	162	146	155	132	91	126	100	162	41	49	61	56	12	344	195	3	84	E	
27-Jul-07	265	212	200	172	346	140	5	32	66	107	348	8	11	20	5	4	7	22	37	42	16	204	202	200	16	NNE	
28-Jul-07	18	203	225	238	293	311	108	187	186	187	164	142	110	101	117	11	12	19	24	22	47	352	130	9	35	NE	
29-Jul-07	134	120	353	141	349	326	161	12	54	83	68	81	5	5	40	37	32	37	24	16	27	1	342	339	20	NNE	
30-Jul-07	305	341	272	292	284	173	180	253	233	255	247	264	244	225	277	293	294	294	294	319	235	238	181	233	280	W	
31-Jul-07	187	200	207	201	205	193	199	200	250	266	279	288	298	287	280	286	289	289	297	292	295	287	286	289	280	W	
Hourly Avg	209	194	206	209	229	211	211	235	270	280	295	295	305	306	313	316	328	342	341	336	324	297	262	284			

PASZA - Valleyview Standard Deviation of Wind Direction Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2007 to August 1, 2007

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	697 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	93.7%			
Percentile	99	95	75	50	25	5	1
	91.3	80.7	47.4	26.3	16.2	8.9	6.8

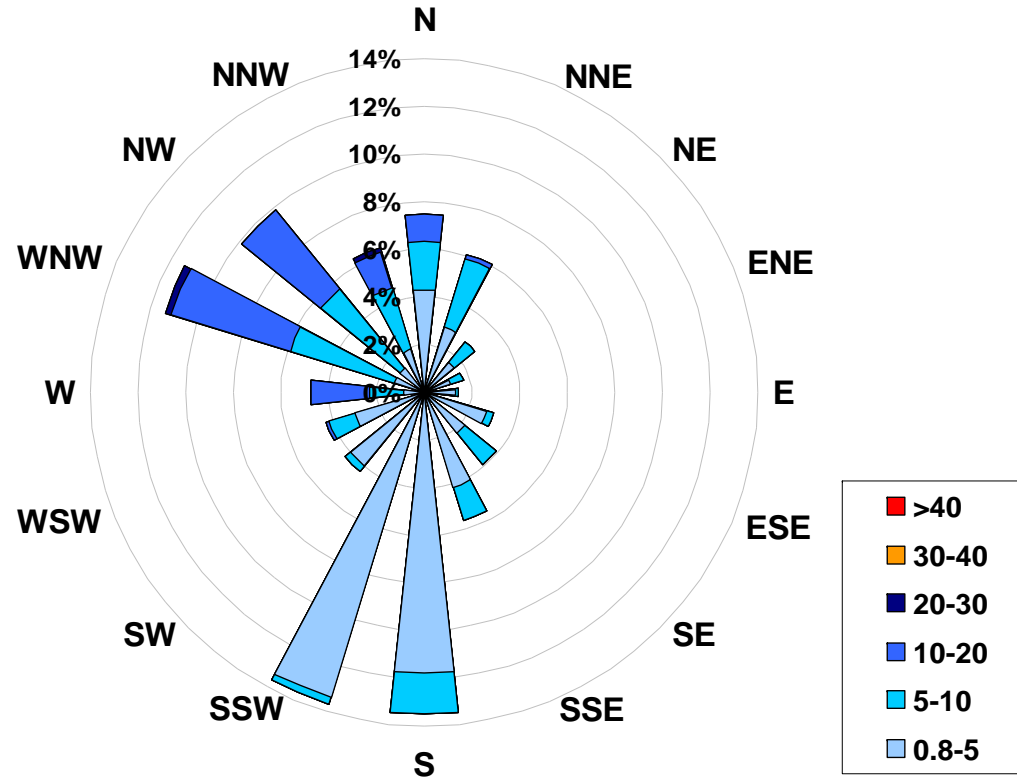
Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jul-07	N	N	N	5	5	7	8	32	24	19	14	20	20	15	22	12	15	20	14	10	15	37	75	26	75.2	
2-Jul-07	68	53	82	14	11	15	36	26	36	51	74	96	57	33	31	32	20	13	17	16	44	63	36	64	96.1	
3-Jul-07	70	25	11	16	9	49	46	81	61	51	17	11	32	79	57	19	18	20	15	10	6	50	40	12	80.6	
4-Jul-07	13	7	9	7	22	P	15	23	25	26	39	36	57	33	55	61	43	35	30	27	27	11	44	48	60.6	
5-Jul-07	54	57	78	93	47	26	45	10	26	34	19	15	20	19	19	23	17	20	16	9	16	20	36	67	92.8	
6-Jul-07	18	16	15	28	13	19	13	45	42	34	17	18	20	30	25	18	24	21	26	11	14	22	38	17	44.9	
7-Jul-07	13	14	11	14	38	14	27	12	17	10	13	20	24	23	22	29	22	22	16	12	73	59	76	73	76.3	
8-Jul-07	32	52	11	53	41	70	79	28	36	54	36	76	56	36	37	23	28	37	54	28	64	46	74	71	79.3	
9-Jul-07	80	73	40	10	11	13	8	11	10	11	11	17	15	17	17	20	16	16	27	12	47	30	15	9	79.6	
10-Jul-07	7	9	7	6	24	11	14	14	47	34	42	31	38	33	22	29	21	32	62	55	11	16	24	7	62.3	
11-Jul-07	42	19	9	10	10	11	37	11	11	12	18	27	28	30	25	34	24	28	27	58	25	53	68	8	68.5	
12-Jul-07	57	39	11	7	13	11	9	11	17	39	35	25	28	35	48	27	21	22	11	16	33	84	33	62	84.2	
13-Jul-07	47	15	18	26	58	95	56	14	23	16	22	23	19	18	17	19	17	18	9	13	10	12	15	25	95.2	
14-Jul-07	33	70	34	24	61	88	25	19	49	16	18	22	26	20	23	28	18	39	11	14	40	22	8	29	87.8	
15-Jul-07	77	25	86	42	82	57	94	43	39	62	48	52	39	12	14	9	17	17	8	9	62	56	86	30	93.9	
16-Jul-07	25	17	10	42	24	36	31	46	47	66	64	75	83	47	50	18	11	53	58	26	44	93	41	43	93.0	
17-Jul-07	69	65	88	66	40	68	37	39	86	81	52	39	45	27	21	17	41	18	22	29	26	17	8	83	88.2	
18-Jul-07	68	50	81	75	90	58	25	60	73	15	20	16	25	36	16	15	13	17	17	23	46	21	23	67	89.5	
19-Jul-07	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
20-Jul-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	26	71	24	44	26	71.0
21-Jul-07	54	18	15	23	21	22	31	28	38	16	16	16	14	22	30	44	41	31	52	37	30	67	62	43	66.5	
22-Jul-07	19	40	29	50	58	20	33	45	19	26	17	15	52	55	32	22	16	56	68	31	9	27	27	74	73.7	
23-Jul-07	46	42	77	69	50	30	27	58	76	63	19	46	43	55	31	78	19	15	92	83	18	15	82	40	92.2	
24-Jul-07	20	25	22	15	21	22	24	22	13	11	13	12	20	16	14	12	11	11	9	14	9	10	25	20	25.3	
25-Jul-07	13	7	9	6	8	25	8	38	17	14	21	29	38	32	57	47	34	28	35	12	57	27	24	10	57.2	
26-Jul-07	16	52	82	36	87	65	69	35	52	89	60	48	57	31	88	56	51	15	24	19	16	40	89	92	92.2	
27-Jul-07	54	53	33	78	42	85	35	18	44	30	91	28	11	15	13	12	13	15	20	21	40	58	22	64	91.2	
28-Jul-07	89	32	67	88	82	71	59	54	20	25	30	65	60	45	39	49	41	13	12	10	40	10	78	76	89.1	
29-Jul-07	44	53	84	51	53	75	78	87	25	20	23	69	85	33	30	31	23	14	8	53	39	41	48	7	87.0	
30-Jul-07	24	18	29	24	32	38	33	52	43	27	31	26	45	58	56	26	17	17	14	16	59	63	42	71	70.7	
31-Jul-07	20	18	20	14	19	7	8	17	31	18	13	16	15	15	37	13	9	13	10	9	9	8	8	8	37.2	
Hourly Max	89	73	88	93	90	95	94	87	86	89	91	96	85	79	88	78	51	56	92	83	73	93	89	92		

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



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	403
5	to	10	187
10	to	20	104
20	to	30	3
30	to	40	0
	>	40	0
Total Non-Zero Values			697

PASZA

Monthly Passive Data Summary

Table 1. PASZA Passive Stations for July 2007

PASZA					
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
Duplicates					
4a	Gordondale	0.4	26.6	1.0	
4b	Gordondale	0.3	28.0	0.8	
9a	Spirit River	0.4	24.8	1.5	
9b	Spirit River	0.3	21.2	1.3	
10a	Woking	0.2	23.2	0.9	
10b	Woking	0.3	24.7	1.2	
19a	Wanham	0.4	27.3	0.4	
19b	Wanham	0.4	26.7	0.6	
50a	Clear River	0.3	23.3	1.2	
50b	Clear River	0.4	20.6	1.3	
49a	Grande Prairie HP	0.3	30.1	5.6	
49b	Grande Prairie HP	0.3	28.3	3.8	
1	Silver Valley	0.3	22.4	1.3	08-27-081-11 W6M
2	Bay Tree	0.2	22.8	0.4	13-16-078-13 W6M
3	Forth Creek	0.3	28.3	0.7	04-13-082-07 W6M
4	Gordondale	0.3	27.3	0.9	04-34-078-10 W6M
5	Boone Creek	0.3	23.3	1.7	01-23-076-11 W6M
7	Steeprock Creek	0.2	26.1	0.5	09-35-072-13 W6M
9	Spirit River	0.3	23.0	1.4	08-12-079-07 W6M
10	Woking	0.3	23.9	1.1	01-13-076-07 W6M
11	Webber Creek	0.2	24.7	1.7	09-36-074-09 W6M
12	Hythe	0.4	23.7	1.4	14-36-072-11 W6M
14	Sylvester	0.1	25.4	0.7	08-06-069-12 W6M
16	Beaverlodge	0.3	34.8	1.6	15-36-071-10 W6M
17	Poplar	0.4	25.5	1.9	13-06-073-08 W6M
18	Saddle Hills	0.4	22.9	0.8	04-25-074-07 W6M
19	Wanham	0.4	27.0	0.5	16-22-077-03 W6M
20	Shaftesbury	0.3	22.1	0.7	04-03-082-23 W5M
21	Eaglesham	0.4	19.4	0.7	16-21-079-25 W5M
23	Bear Lake	0.4	28.5	1.7	15-31-072-06 W6M
24	Wembley	0.3	24.7	1.8	12-31-070-08 W6M

Table 1. PASZA Passive Stations for July 2007 (Continued)

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
25	Pinto Creek	0.2	22.2	0.9	04-24-069-11 W6M
26	Flyingshot	0.3	22.9	1.2	15-36-070-07 W6M
27	Grande Prairie I	0.6	26.0	3.7	08-15-071-06 W6M
28	Clairmont Lake	0.3	26.6	1.2	09-06-073-04 W6M
29	Smoky Heights	0.6	31.1	1.7	04-06-075-02 W6M
30	Fitzsimmons	0.3	19.9	0.9	15-36-072-03 W6M
32	Gold Creek	0.5	16.5	1.4	06-33-067-05 W6M
33	Wapiti	N/A	24.1	1.5	02-25-071-03 W6M
34	Puskwaskau	0.2	19.6	0.3	15-35-074-25 W5M
35	Jean Cote	0.4	21.6	1.4	12-35-079-21 W5M
36	Guy	0.3	27.3	2.1	03-04-076-22 W5M
37	Crooked Creek	0.2	22.8	0.8	16-01-071-26 W5M
38	Karr Creek	N/A	N/A	N/A	10-16-065-02 W6M
39	Clouston Creek	0.2	23.7	1.1	12-01-073-22 W5M
40	McLennan	N/A	23.1	1.4	03-29-077-19 W5M
41	Valleyview	0.4	26.5	0.9	09-30-069-22 W5M
42	Sunset House	0.2	29.4	0.5	05-32-070-19 W5M
43	High Prairie	0.2	21.5	0.7	16-13-074-17 W5M
44	Peavine	N/A	20.4	0.4	03-05-079-15 W5M
45	Gift Lake	0.2	20.2	0.5	10-07-079-12 W5M
46	Little Smoky	0.2	21.2	1.4	12-01-065-21 W5M
47	Kinuso	0.2	20.5	0.5	12-10-073-10 W5M
48	Deer Mountain	0.3	21.7	0.5	15-22-068-09 W5M
49	Grande Prairie HP	0.3	29.2	4.7	17-26-071-06 W6M
50	Clear River	0.3	21.9	1.3	SE-03-084-12 W6M
51	Bear Canyon	0.6	22.6	0.6	SE-28-085-12 W6M
52	Worsley	0.5	22.8	1.3	NE-34-085-07 W6M
53	Hines Creek	0.3	22.0	1.0	SW-09-084-04 W6M
54	Ronan	0.3	20.0	1.6	SE-03-082-04 W6M
55	Cadotte Lake School	N/A	N/A	N/A	NE-23-086-16 W5M
56	Simon Lake Store	0.6	17.6	0.5	SE-32-086-17 W5M
57	Dixonville	0.3	21.9	0.6	SE-14-087-24 W5M
58	Queen Elizabeth Park	0.3	24.3	1.5	NW-19-083-23 W5M
59	Blue Sky	0.2	20.8	1.4	SW-35-081-02 W6M
60	Gerry Lake	0.3	18.1	0.3	SW-22-084-02 W6M
61	Musreau Lake	0.2	17.5	0.1	NE-22-064-05 W6M

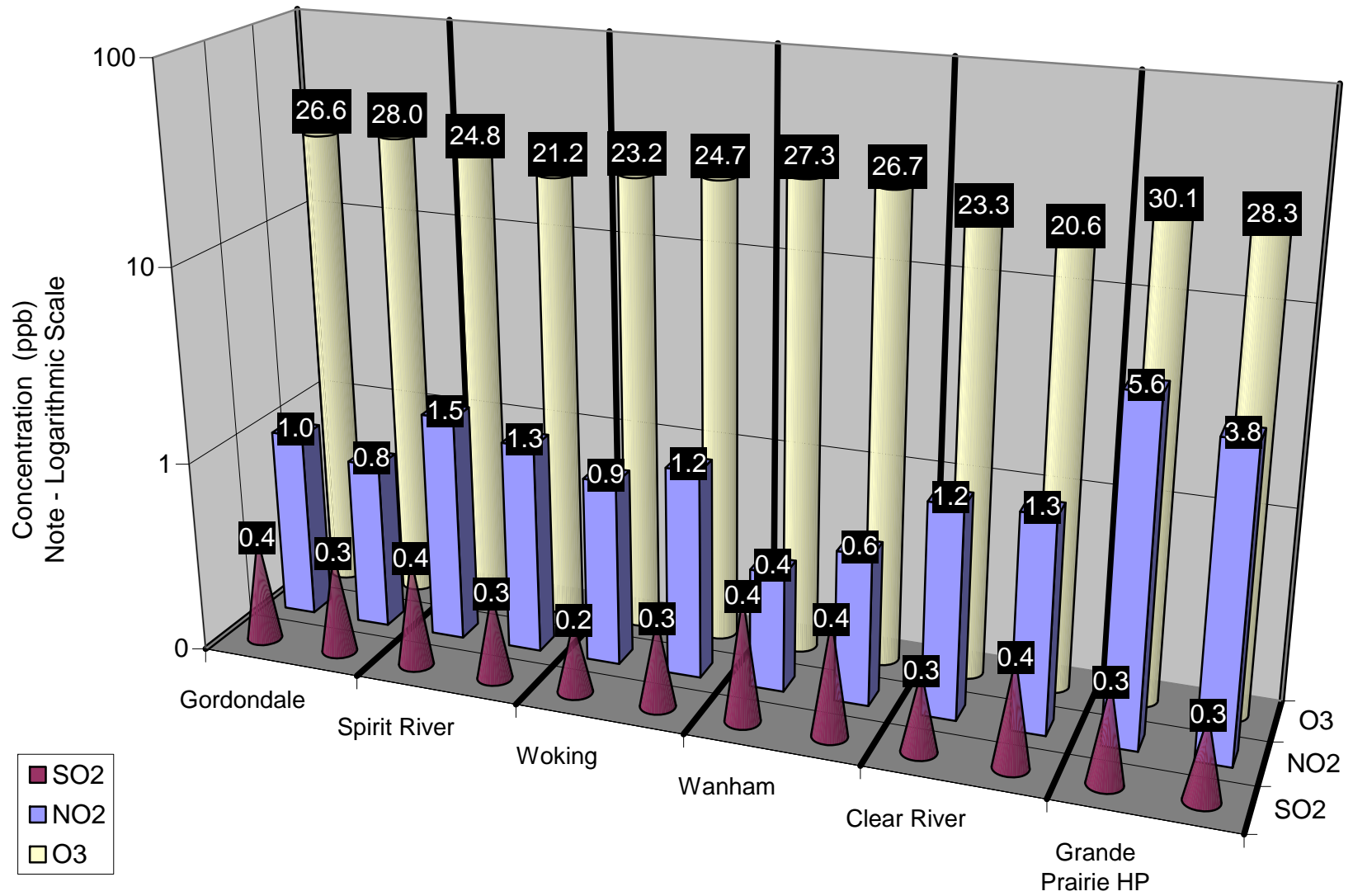


Figure 64. Duplicate Summary Chart

Table 2. Passive Summary Results for July 2007

Stats	Sulphur Dioxide SO ₂	Ozone O ₃	Nitrogen Dioxide NO ₂
	ppb	ppb	ppb
Passive Summary for July 2007 (PASZA Zone)			
Mean	0.3	23.5	1.1
Standard Deviation	0.1	3.6	0.8
Minimum	0.1	16.5	0.1
Minimum At	Sylvester (#14)	Gold Creek (#32)	Musreau Lake (#61)
Maximum	0.6	34.8	6.0
Maximum At	Simon Lake Store (#56)	Beaverlodge (#16)	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	26.7	2.4
PASZA Beaverlodge passive	0.3	34.8	1.6
Comparison between Continuous and Passive monitoring at Henry Pirker (passive #49 Grande Prairie HP)			
	SO ₂	O ₃	NO ₂
PASZA Henry Pirker station	0.1	22.3	5.3
PASZA Grande Prairie passive	0.3	29.2	4.7

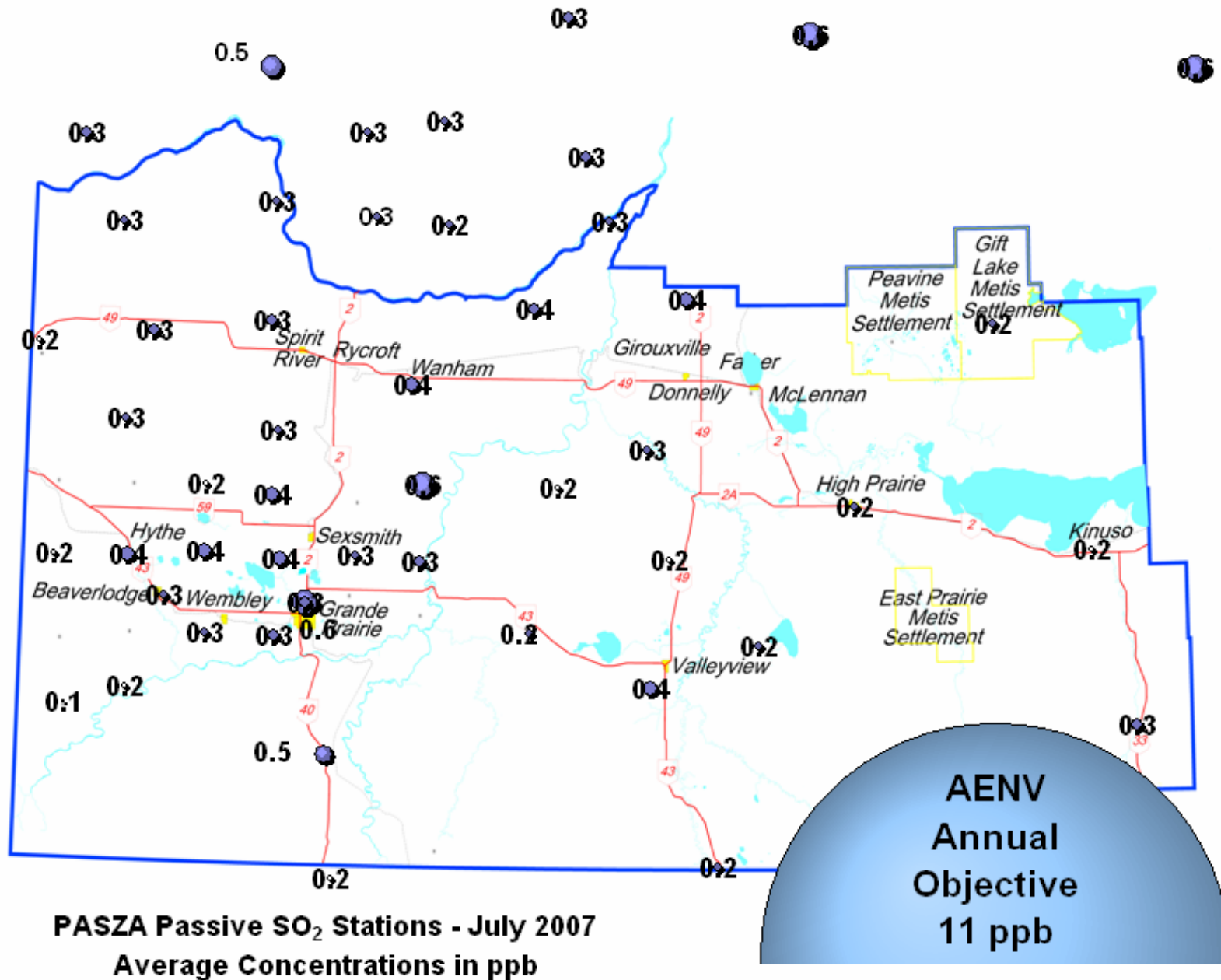


Figure 65. SO₂ Bubble Chart

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

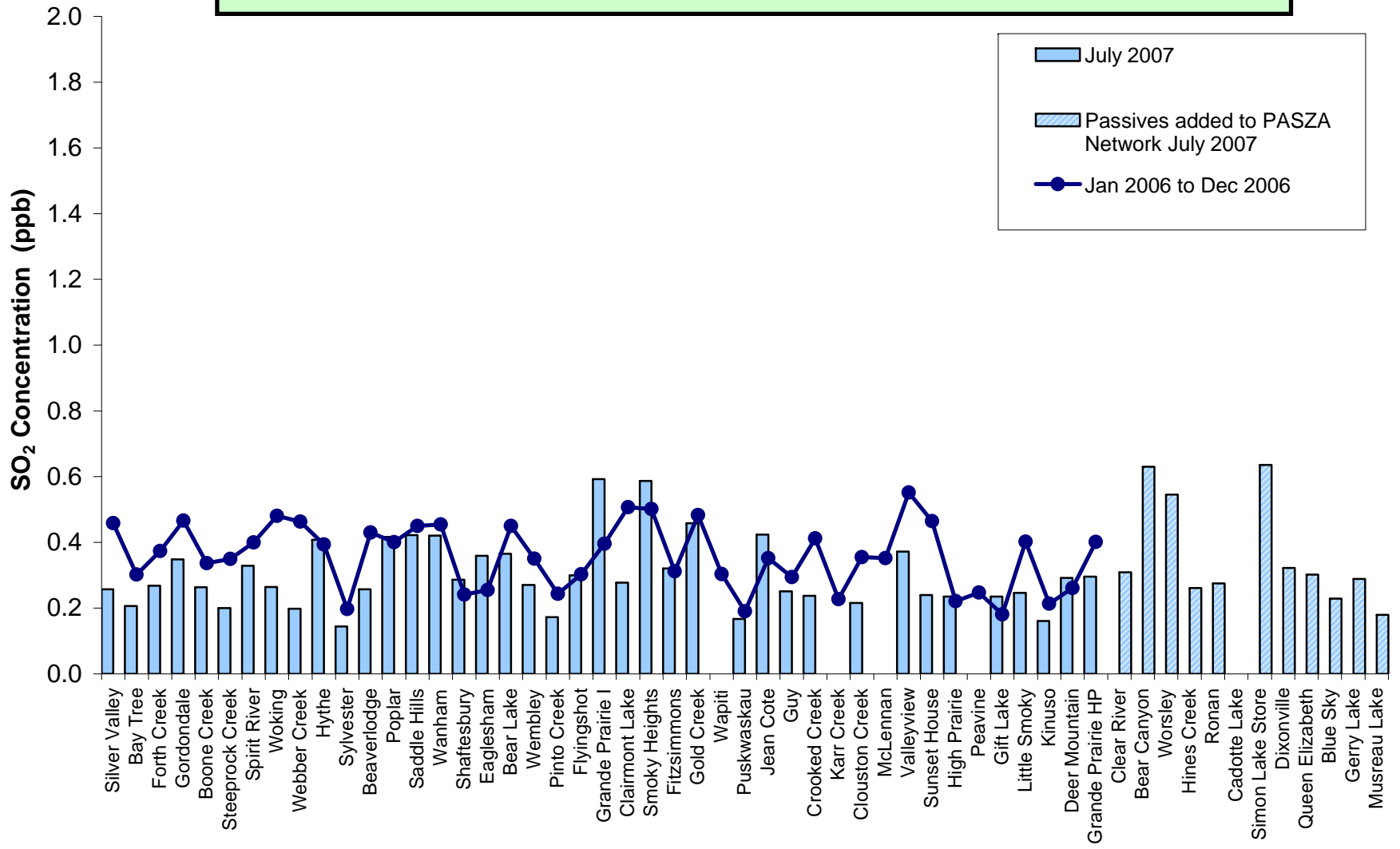
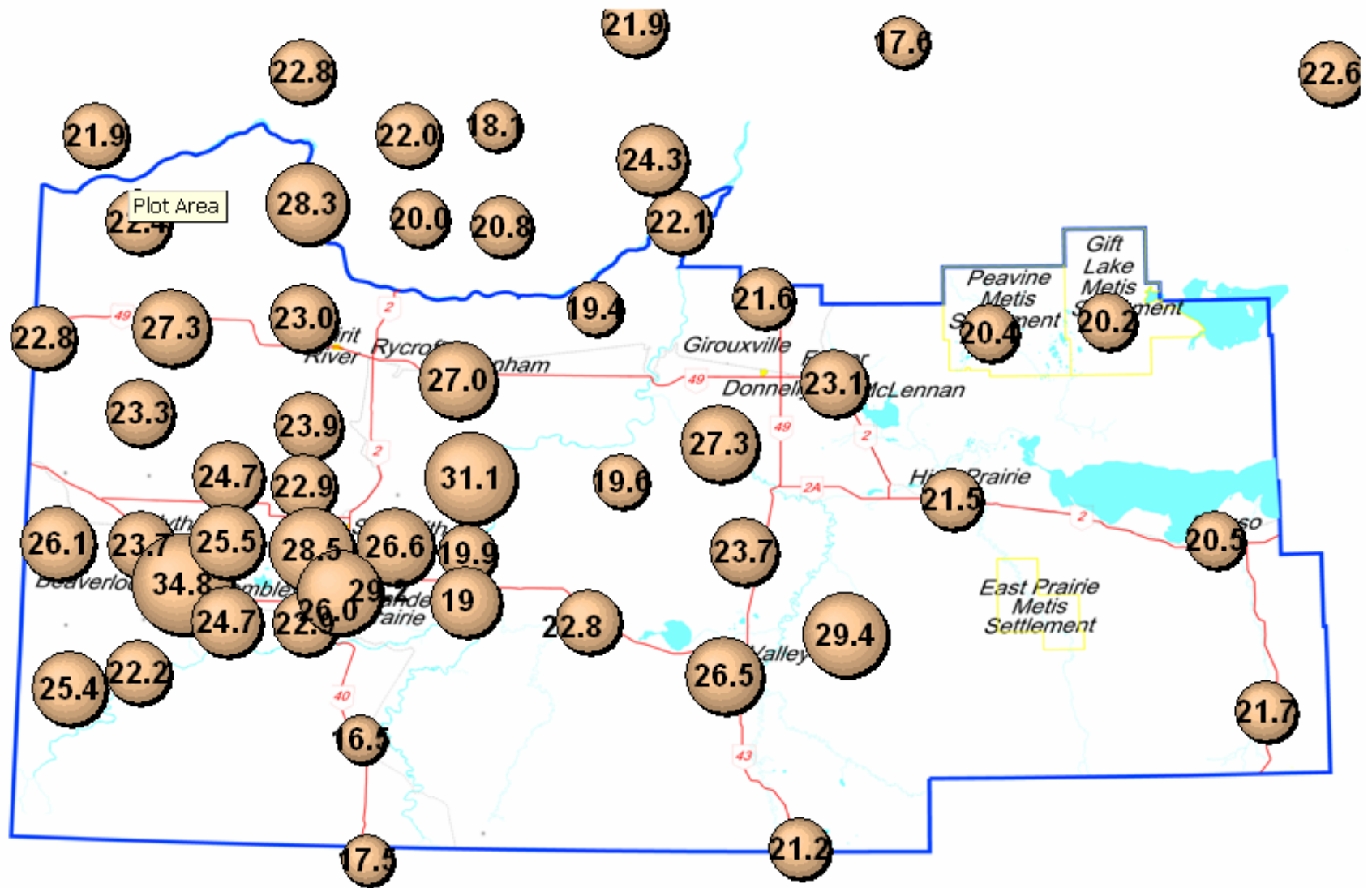


Figure 66. SO₂ Summary Chart



PASZA Passive O₃ Stations - July 2007
Average Concentrations in ppb

Figure 67. O₃ Bubble Chart

Alberta Ambient Air Quality Objective - No Annual O₃ Objective

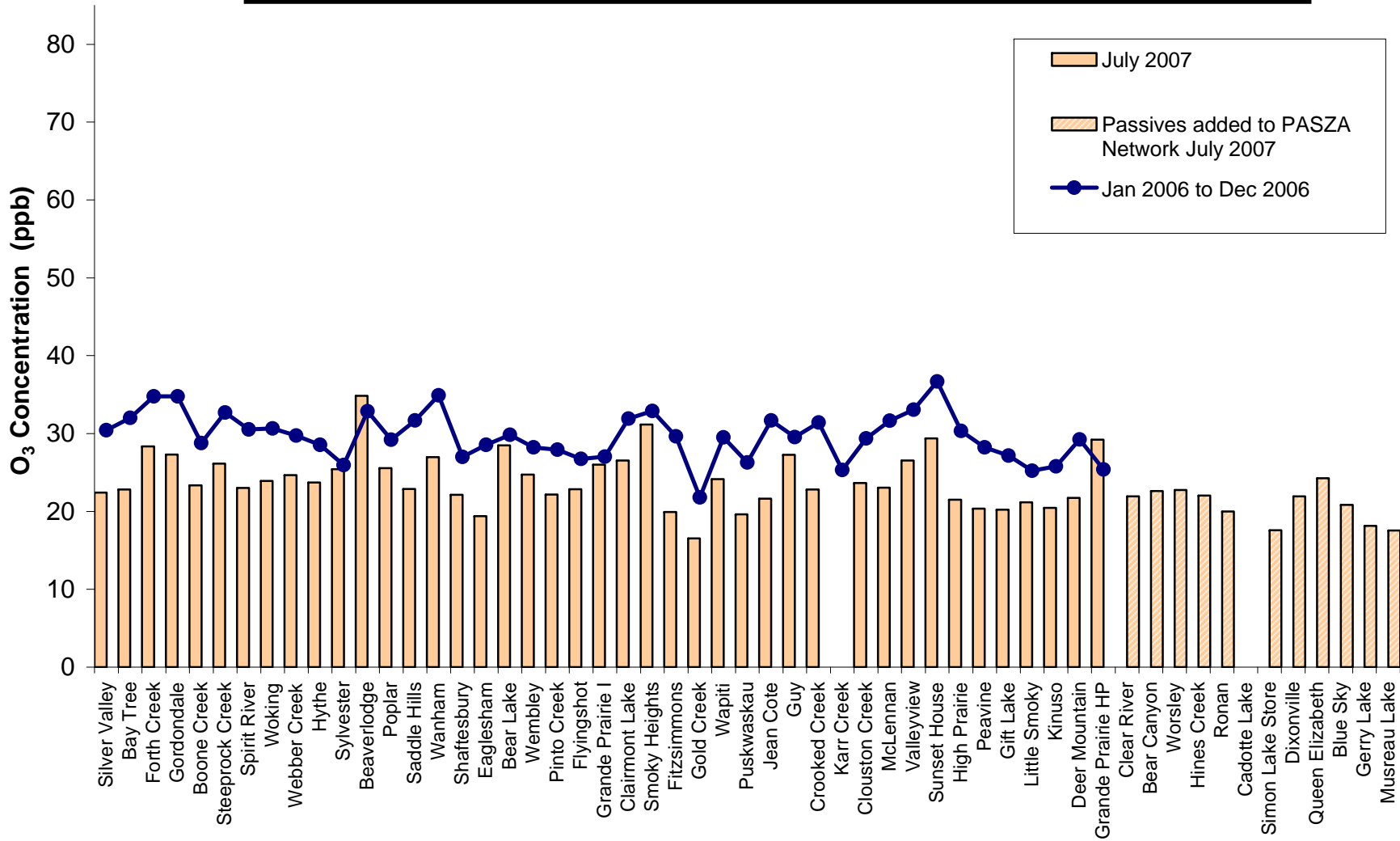


Figure 68. O₃ Summary Chart

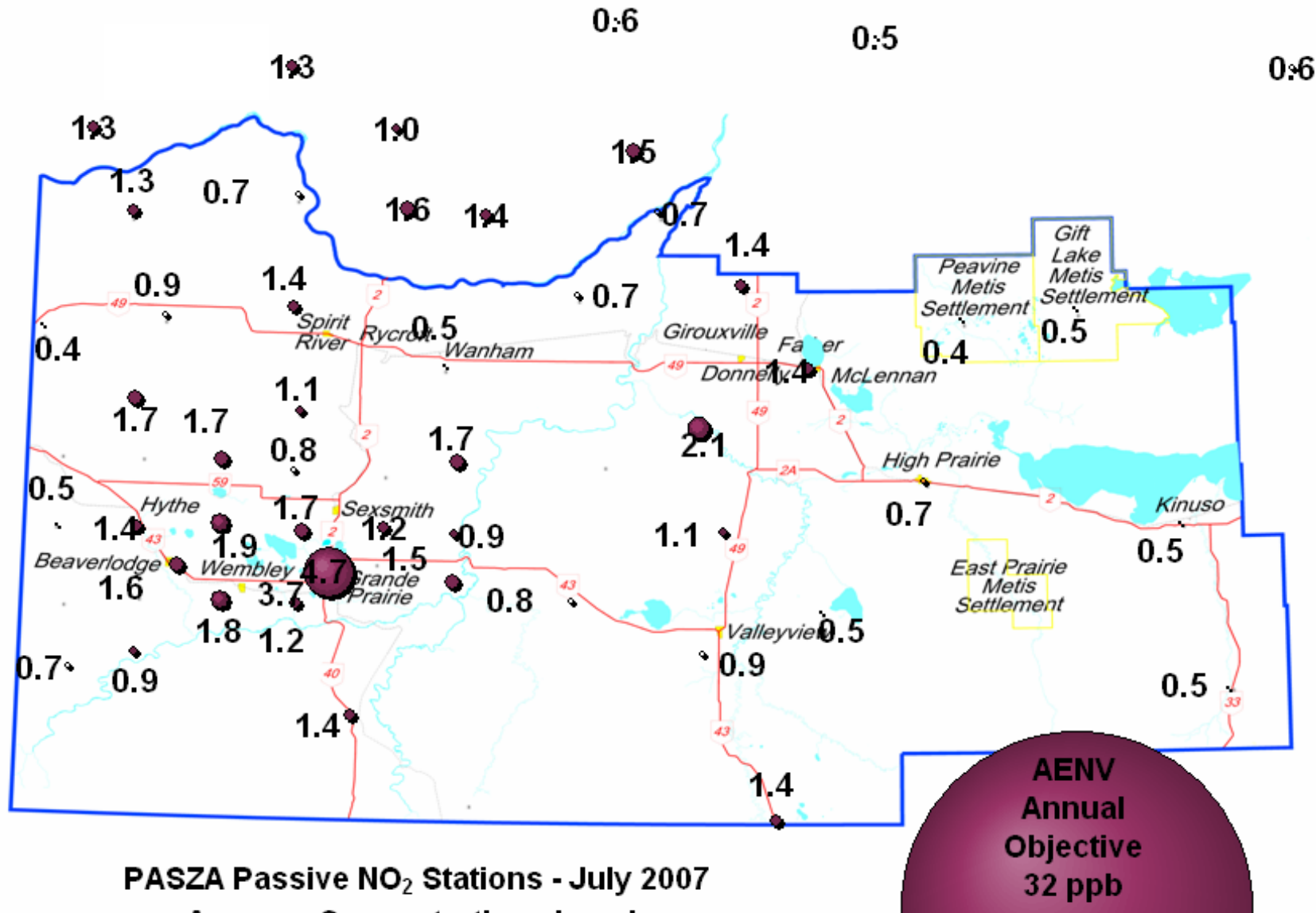


Figure 69. NO₂ Bubble Chart

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

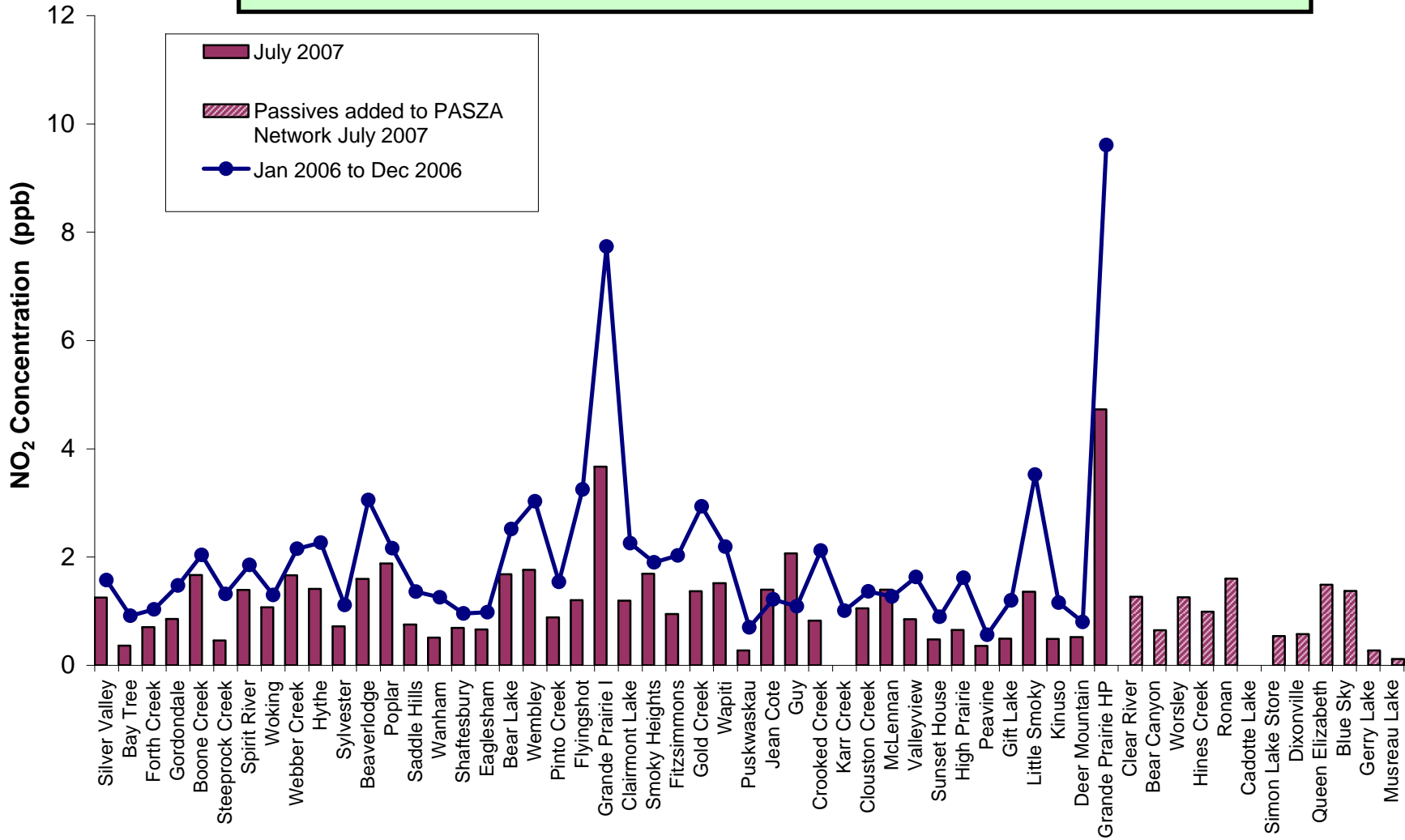


Figure 70. NO₂ Summary Chart

July 2007 Calibration Reports

PASZA - Henry Pirker Station with the following calibrations:

SO₂, NO, NO₂, NO_x, O₃, CO, THC, TRS

PASZA – Evergreen Park Station with the following calibrations:

SO₂, TRS

PASZA – Smoky Heights Station with the following calibrations:

SO₂, TRS

PASZA – Beaverlodge Station with the following calibrations:

SO₂, NO, NO₂, NO_x, O₃

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

SO₂, TRS, NO, NO₂, NO_x, O₃,

PASZA – Valleyview Station with the following calibrations:

SO₂, H₂S

Calibration Report

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

Station Information

Calibration Date	July 6, 2007	Previous Calibration	June 19, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:02	End Time (MST)	12:02
Barometric Pressure	0.920 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2488
Cal Gas Conc	49.6 ppm	Cal Gas Expiry Date	Jan 2 2009
		Cal Gas Cylinder #	FF-5013
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.014801	Calculated slope	1.035076
Calculated intercept	-0.263442	Calculated intercept	-1.016890
Analyzer make	TEI 43C	Analyzer serial #	

	before		after	
Concentration range	500	ppm	0 - 25	ppm
Coefficient	7.4		7.4	
Background	.785		.785	
Pressure/Flow	642/459	mm Hg	642/459	mm Hg
Lamp Voltage	815	LPM	815	LPM

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)
4994	0.00	0.00	0.31	N/A
4994	39.94	393.53	380.77	1.0335
4994	19.91	196.96	191.79	1.0269
4994	10.00	99.12	97.30	1.0187
4994	0.00	0.00	0.31	As Found Zero
4994	39.94	393.53	380.77	As Found Span
Average Correction Factor				1.0264

Calculated value of As Found Response: 385.836 ppm Percent Change of As Found: 2.0%

	before calibration		after calibration	
Auto zero	-0.18	ppm	-0.99	ppm
Auto span	21.18	ppm	352.18	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

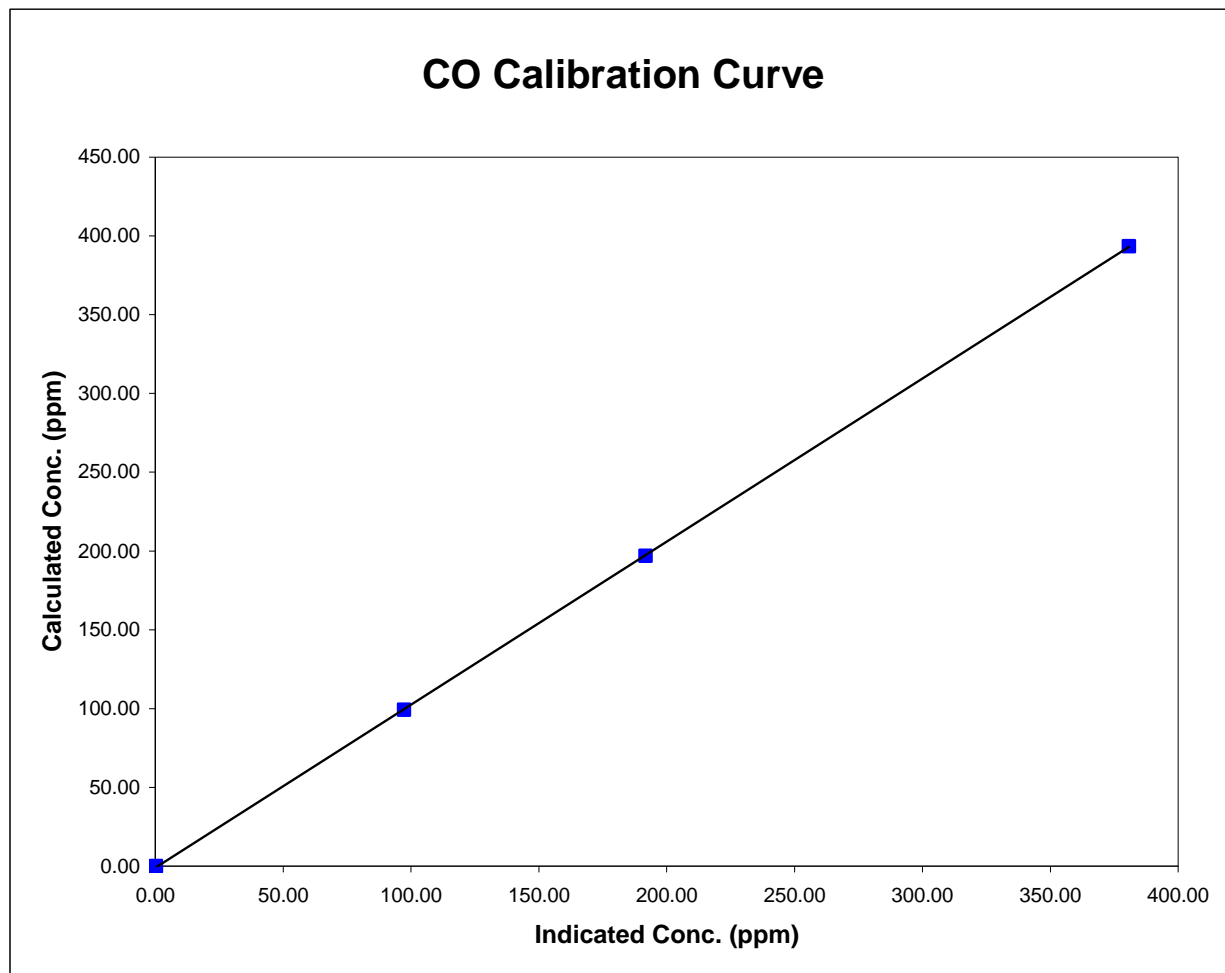
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

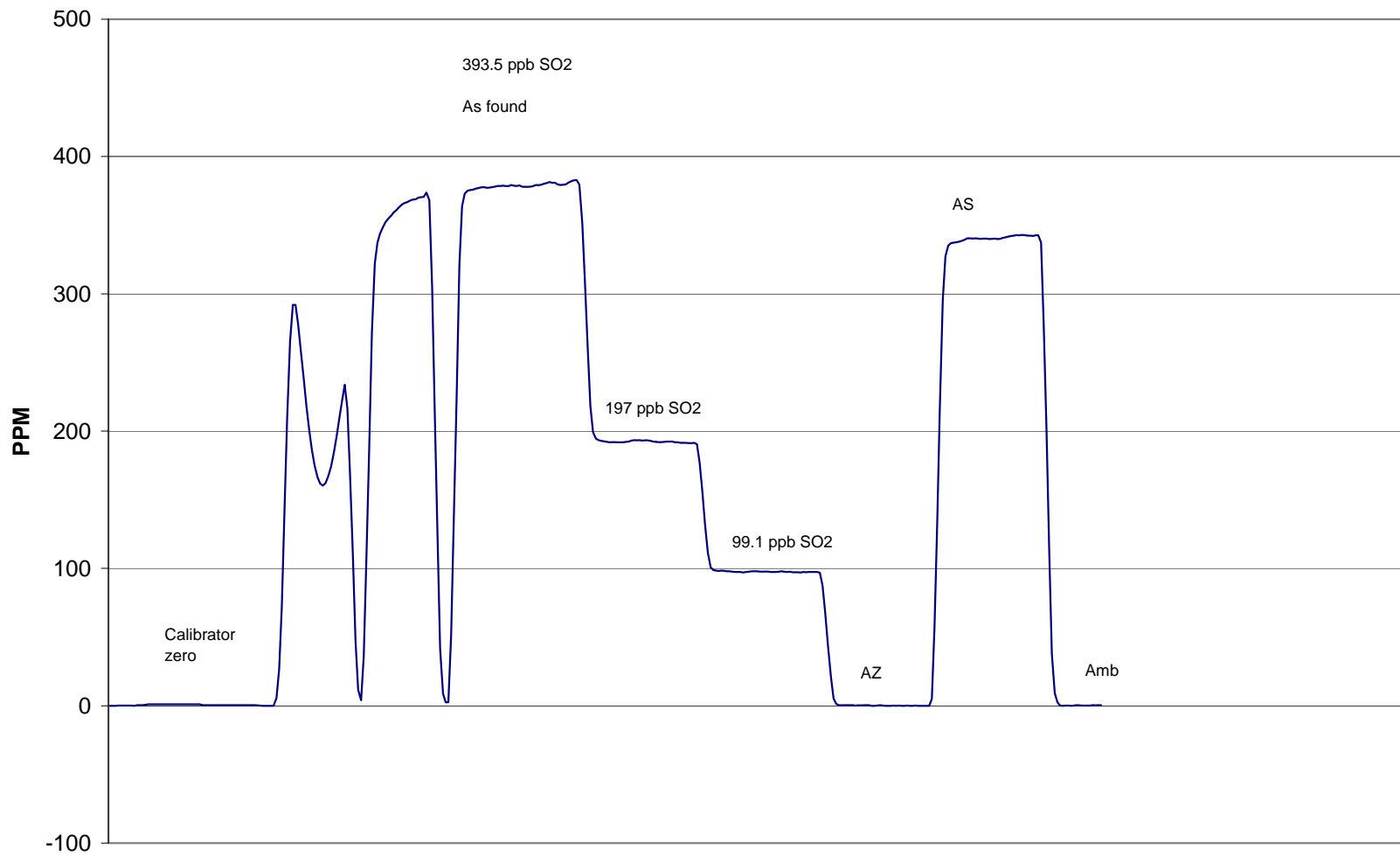
Calibration Date	July 6, 2007	Previous Calibration	June 19, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:02	End Time (MST)	12:02
Analyzer make/model	TEI 43C	Analyzer serial #	0

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.305	N/A		
393.533	380.773	1.0335	Correlation Coefficient	0.999985
196.959	191.793	1.0269		
99.121	97.303	1.0187	Slope	1.035076
			Intercept	-1.016890



SO2 Calibration



July 6, 2007

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA



Station Information

Calibration Date	July 4, 2007	Previous Calibration	June 12, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Installation	<input type="checkbox"/> Removal
Other:			
Start Time (MST)	10:40	End Time (MST)	14:46
Barometric Pressure	0.920 Atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2844
NO Cal Gas Conc	49.5 ppm	Cal Gas Expiry Date	2-Jan-09
NOx Cal Gas Conc	49.6 ppm	Cal Gas Serial #	FF-5013

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	45269
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Parameter		NO2	NOx	NO
Before	Data Slope	1.030667	1.009239	1.002992
	Data Offset	-2.549741	-3.053568	-1.883987
After	Data Slope	1.029535	1.027672	1.027195
	Data Offset	-0.494487	-0.906270	-0.631709
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
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Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO background	10.4	ppb	10.6	mV
NOx background	11.0	ppb	11.1	mV
NO coefficient	0.884		0.678	
NOx coefficient	0.991		1	
Chamber Temp	50.0	Deg C	49.8	Deg C
Cooler Temp	-2.4	Deg C	-2.4	Deg C
Converter Temp	319.0	Deg C	319.0	Deg C
Vacuum	163.2	mm Hg	162.1	mm Hg

Notes:

Calibration Report



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

Station Information

Calibration Date: **July 4, 2007** Station Location: **Henry Pirker**

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor
zero	4992	0.00	0.0	0.0	0.0	-0.2	-0.5	0.1	N/A	N/A
1	4992	39.93	393.6	392.8	0.8	383.3	382.5	1.0	1.0268	1.0270
2	4992	19.91	197.0	196.7	0.4	193.2	192.6	0.5	1.0198	1.0209
3	4992	10.00	99.2	99.0	0.2	98.4	98.0	0.4	1.0075	1.0095
AFZ	4992	0.00	0.0	0.0	0.0	-0.9	-0.5	-0.5	0.0000	0.0000
AFS	4992	39.93	393.6	392.8	0.8	492.0	495.4	-3.7	0.8000	0.7929
Average Correction Factor									1.0180	1.0192

As Found Concentrations: NO_x= 489.9 NO= 494.1 As Found Percent Change NO_x= 24.5% NO= 25.8%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

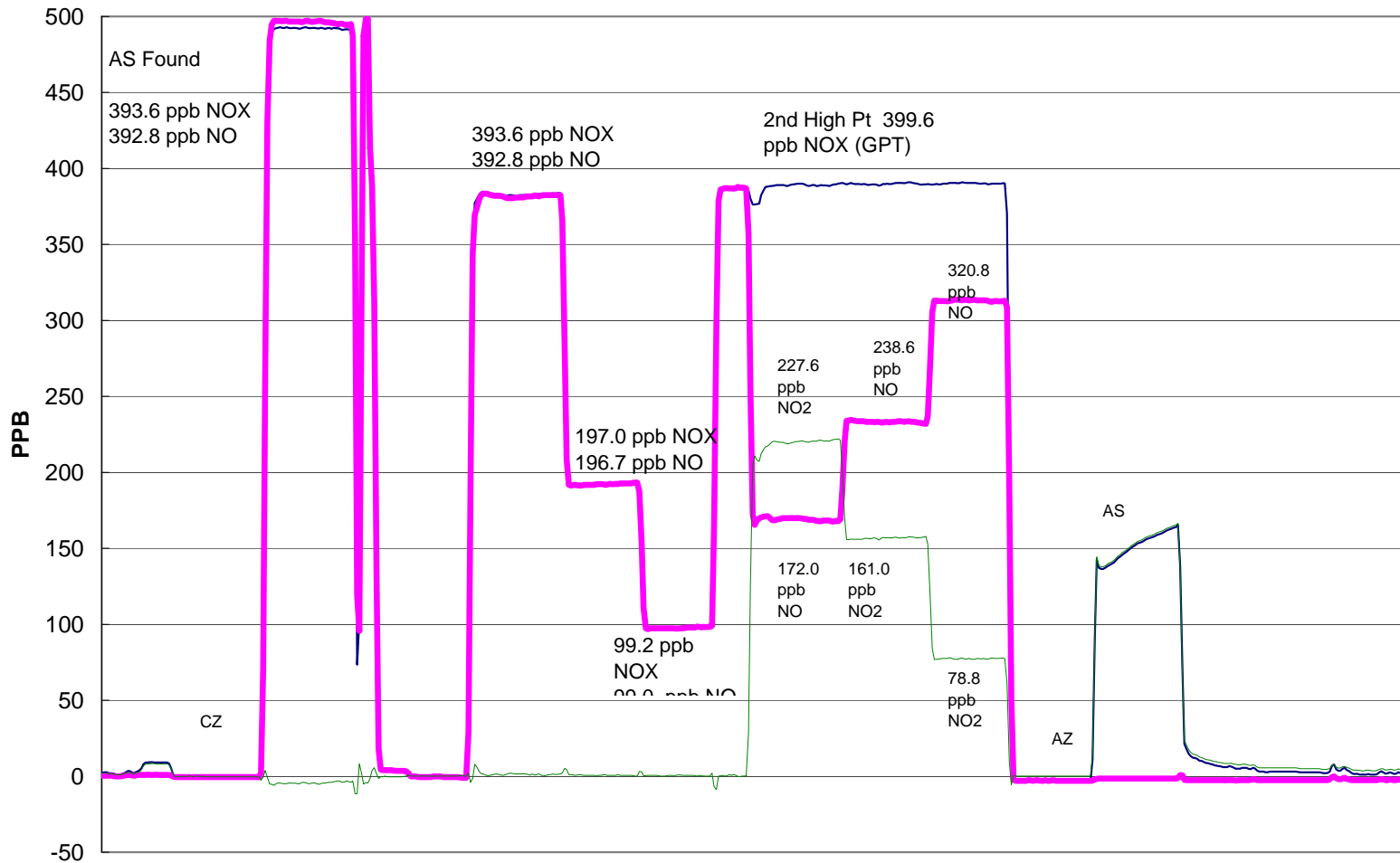
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	399.6	397.0	2.6	387.5	387.1	0.4	1.0311	1.0256	N/A	N/A
300	399.6	172.0	227.6	389.0	168.1	221.1	1.0272	1.0234	1.0294	97.1%
200	399.6	238.6	161.0	390.1	232.9	157.3	1.0243	1.0245	1.0234	97.7%
100	399.6	320.8	78.8	390.0	312.9	77.4	1.0245	1.0252	1.0181	98.2%
Average Correction Factor							1.0253	1.0244	1.0236	97.7%

AIC Data

Parameter	Previous calibration				Current calibration			
	NOx	NO2	NO	ppb	NOx	NO2	NO	ppb
Auto zero	1.2	1.7	0.8	ppb	10.0	0.9	6.7	ppb
Auto span	414.5	414.5	2.2	ppb	163.1	165.3	-2.2	ppb

Calibration Performed By: Dawn Ewan

NOx Calibration



July 4, 2007

Calibration Summary

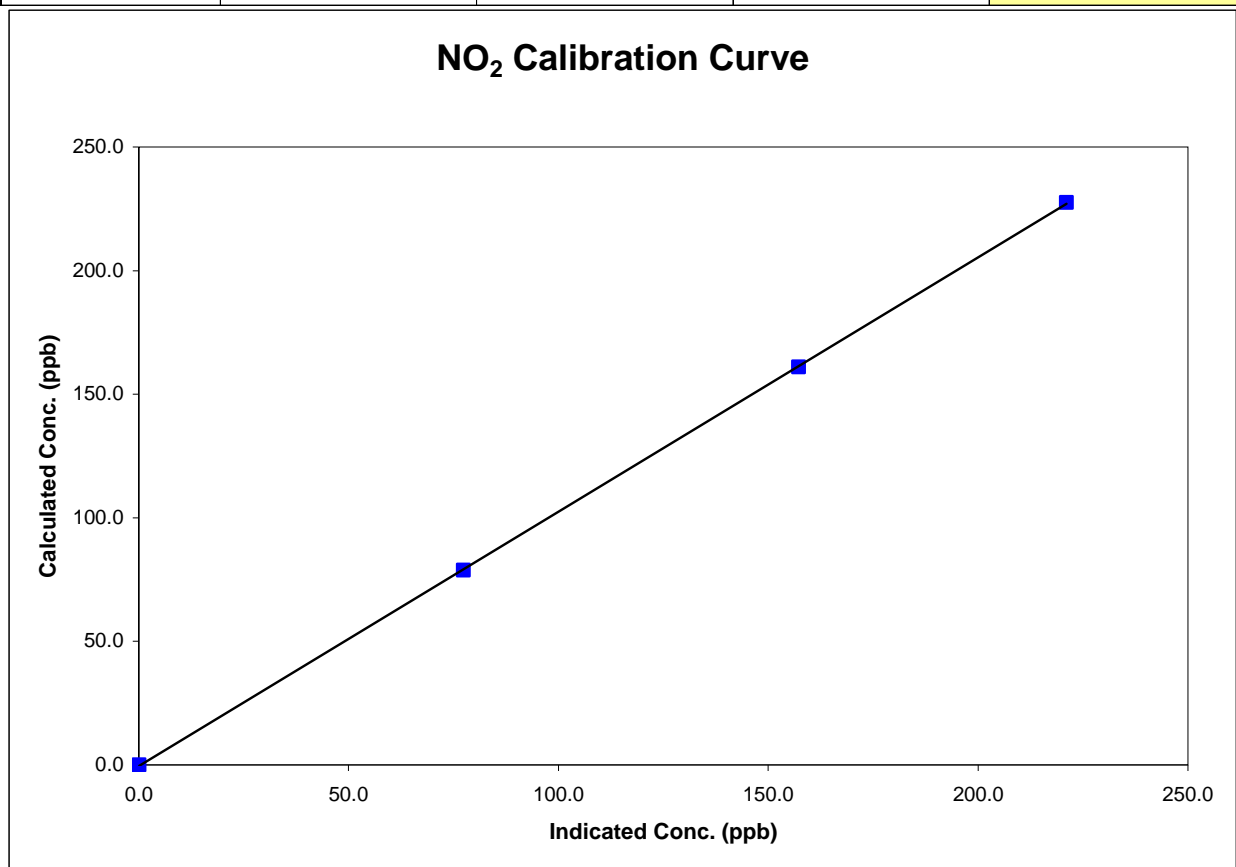
Parameter **NO₂**Air Monitoring Network **PASZA**

Station Information

Calibration Date	July 4, 2007	Previous Calibration	June 12, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	10:40	End Time (MST)	14:46
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	0.0000	Correlation Coefficient	0.999975
227.6	221.1	1.0294		
161.0	157.3	1.0234		
78.8	77.4	1.0181		
			Slope	1.029535
			Intercept	-0.494487



Calibration Summary

Parameter **NO_x**

Air Monitoring Network **PASZA**

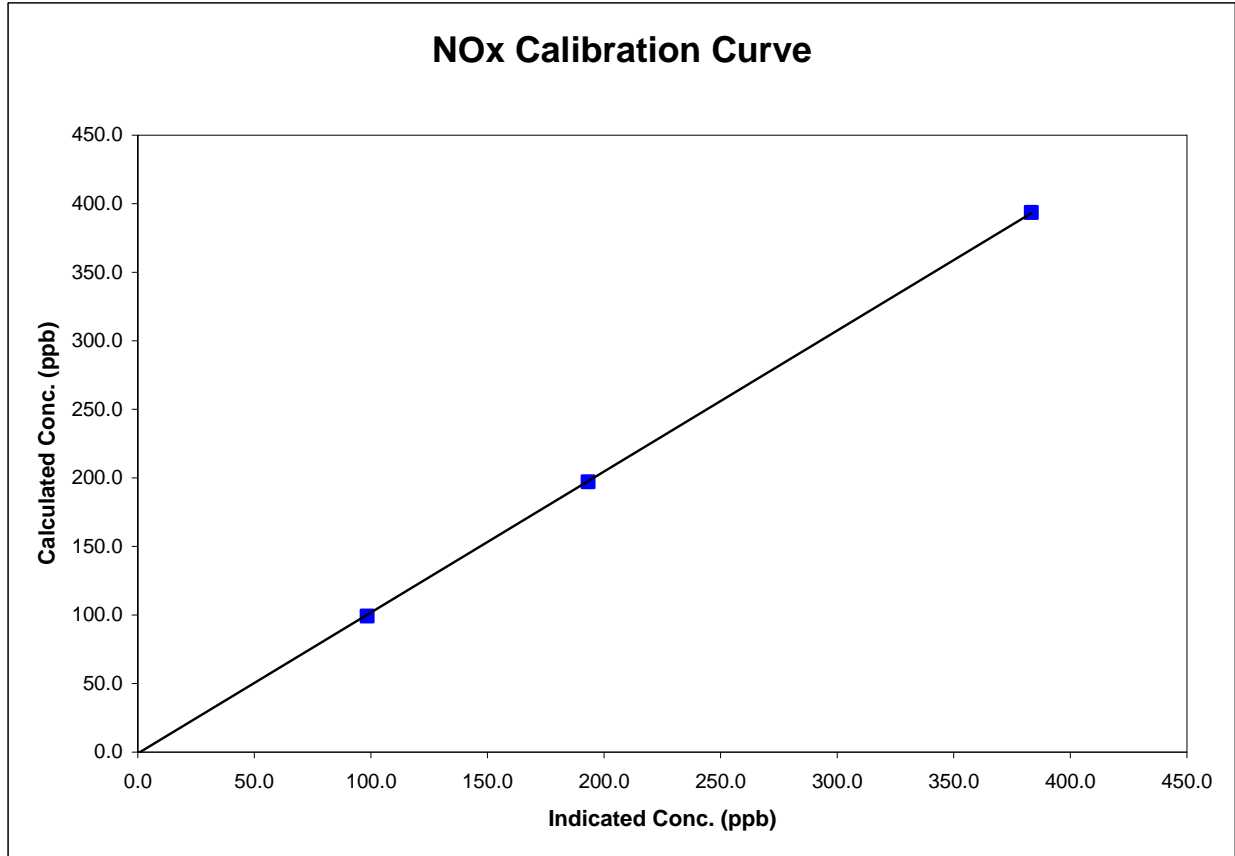


Station Information

Calibration Date	July 4, 2007	Previous Calibration	June 12, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	10:40	End Time (MST)	14:46
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.2	0.0000	Correlation Coefficient	0.999963
393.6	383.3	1.0268		
197.0	193.2	1.0198	Slope	1.027672
99.2	98.4	1.0075		
			Intercept	-0.906270



Calibration Summary

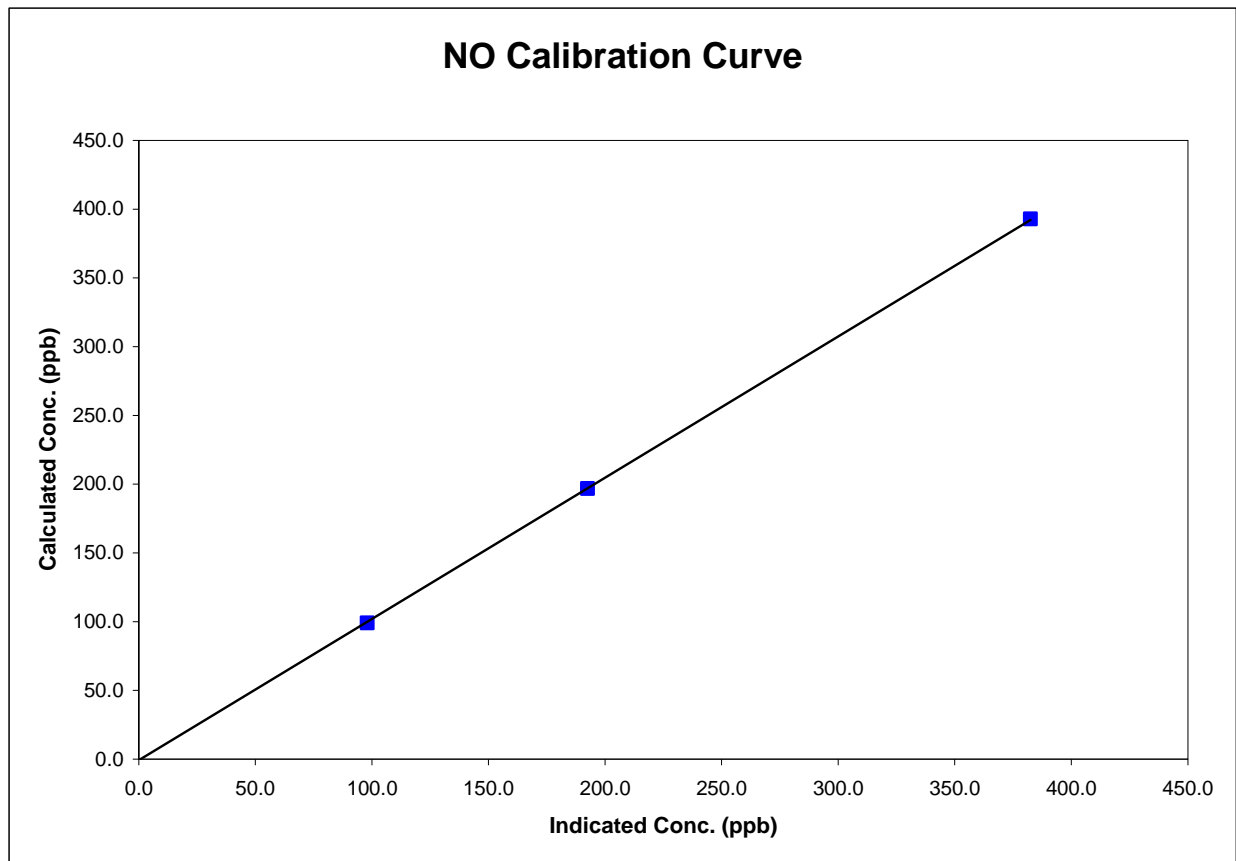
Parameter **NO**Air Monitoring Network **PASZA**

Station Information

Calibration Date	July 4, 2007	Previous Calibration	June 12, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	10:40	End Time (MST)	14:46
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	-0.5	N/A		
392.8	382.5	1.0270	Correlation Coefficient	0.999964
196.7	192.6	1.0209		
99.0	98.0	1.0095	Slope	1.027195
			Intercept	-0.631709



Calibration Report

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

Station Information

Calibration Date	July 6, 2007	Previous Calibration	June 19, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:

Start Time (MST)	13:10	End Time (MST)	15:45
Barometric Pressure	0.920 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2844
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA

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

Calculated slope	0.997347	Calculated slope	0.999997
Calculated intercept	5.126403	Calculated intercept	4.417973

Analyzer make	TECO 49C	Analyzer serial #	607415761
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	before		after	
Concentration range	500	ppb	500	ppb
offset	-0.6	ppb	-0.5	ppb
slope	0.993		0.861	
O3 Lamp temp	71	mV	71	mV
Intensities	94900/72800	hz	97300/75000	hz
Pressure	961.2	mm Hg	699.4	mm Hg
Flow A	664	ccm	664	ccm
Flow B	674	Deg C	680	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	0.6	N/A
4992	0.00	227.6	228.3	0.9967
4992	0.00	161.0	150.7	1.0680
4992	0.00	78.8	70.1	1.1245
4992	0.00	0.0	0.6	As found zero
4992	0.00	227.6	261.9	As found span
Average Correction Factor				1.0631

Calculated value of As Found Response: 265.7 ppm Percent Change of As Found: 16.8%

	before calibration		after calibration	
Auto zero	2.7	ppb	2.6	ppb
Auto span	280.8	ppb	252.3	ppb

Notes: _____

Calibration Performed By: Dawn Ewan

Calibration Summary

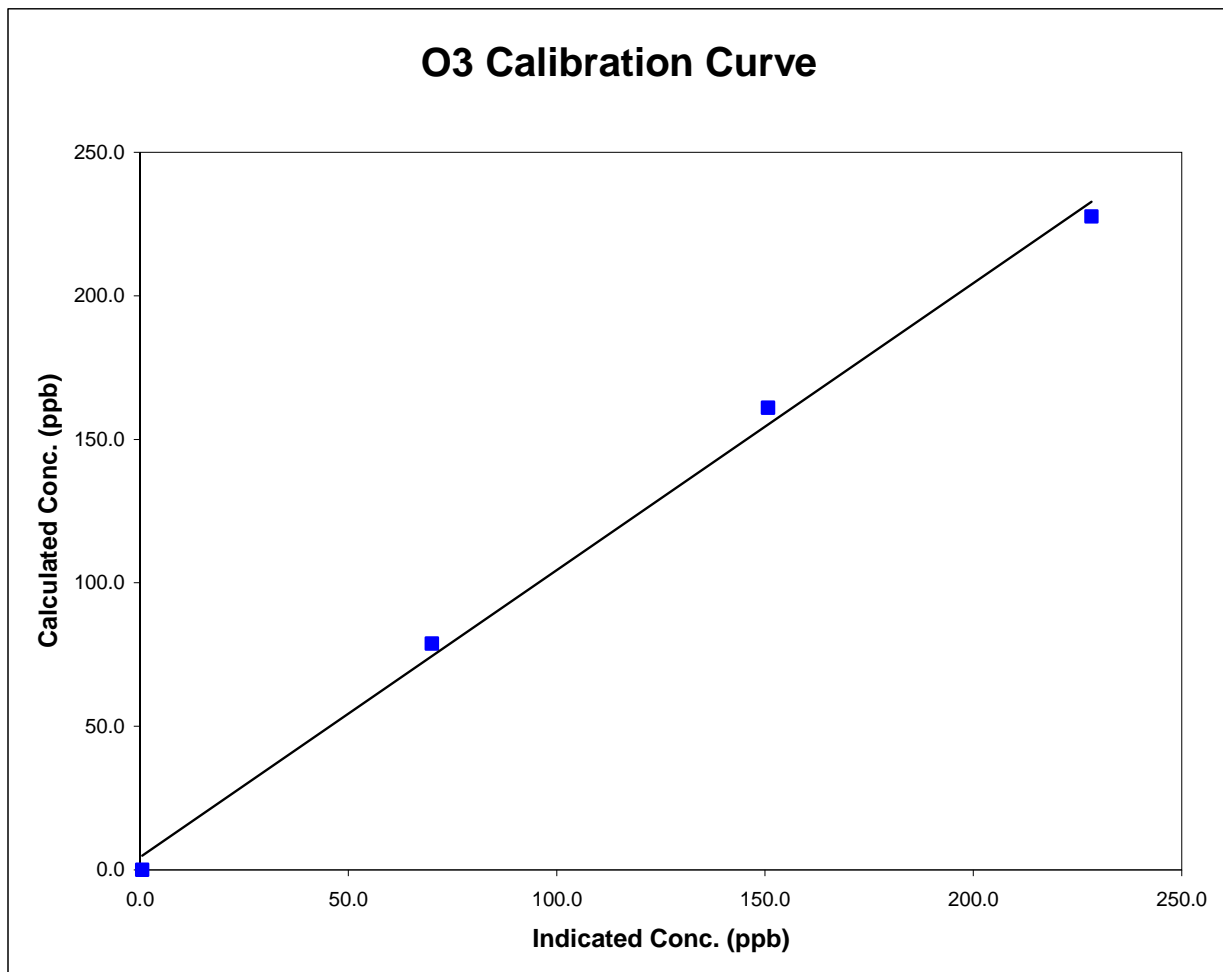
Parameter **O3**Air Monitoring Network **PASZA**

Station Information

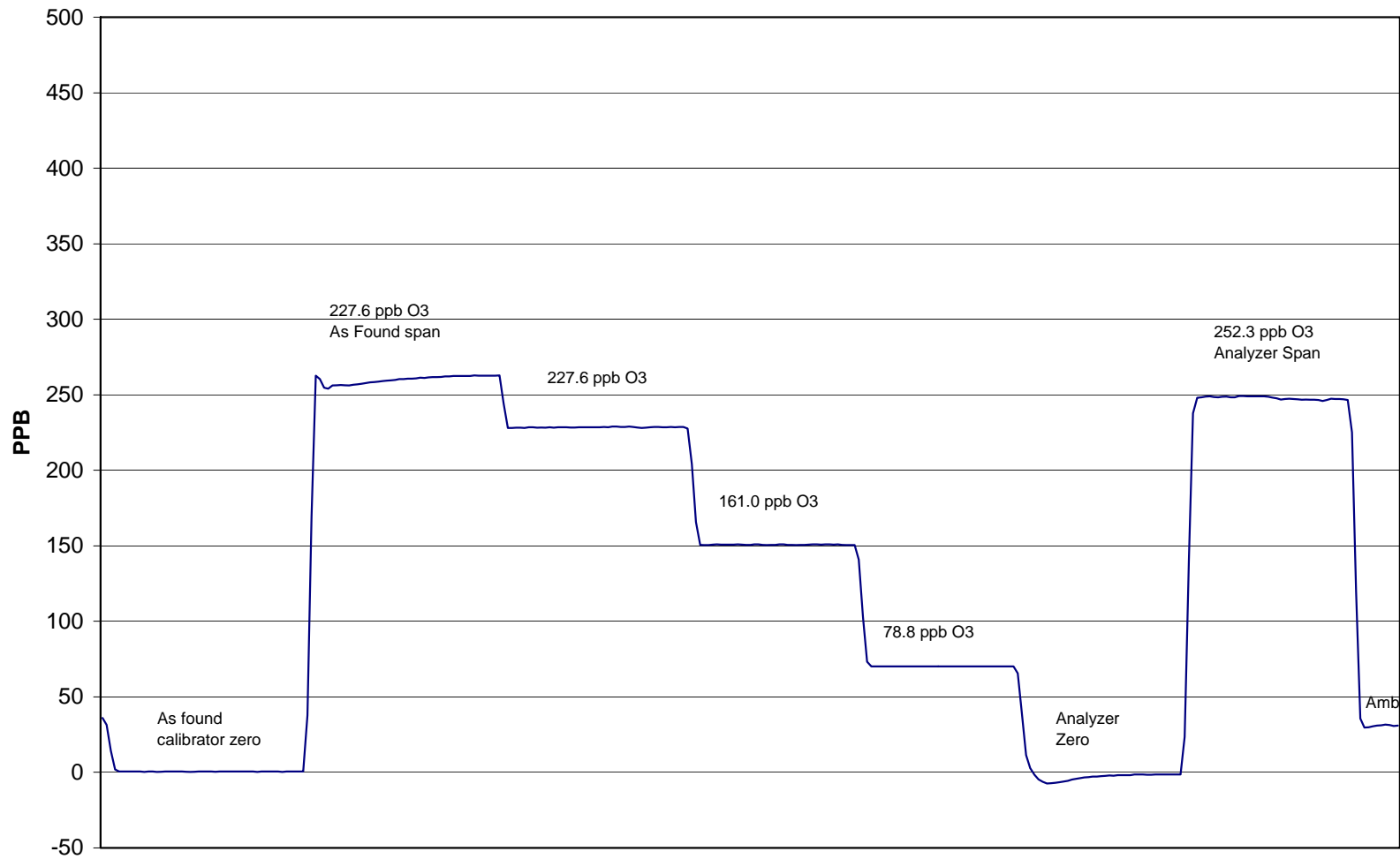
Calibration Date	July 6, 2007	Previous Calibration	June 19, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	13:10	End Time (MST)	15:45
Analyzer make/model	TECO 49C	Analyzer serial #	607415761

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.6	NA		
227.6	228.3	0.9967	Correlation Coefficient	0.996454
161.0	150.7	1.0680		
78.8	70.1	1.1245	Slope	0.999997
			Intercept	4.417973



O3 Calibration



July 6, 2007

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

Calibration Date	July 3, 2007	Previous Calibration	June 7, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	12:51	End Time (MST)	13:50
Barometric Pressure	0.920 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2488
Cal Gas Conc	3000 ppm	Cal Gas Expiry Date	AUG 28/05
		Cal Gas Cylinder #	AAL20565
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.014801	Calculated slope	1.023566
Calculated intercept	-0.263442	Calculated intercept	-0.179696
Analyzer make	TEI Model 48C	Analyzer serial #	508011062

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
CO span setting	1.57		1.049	
CO zero setting	9.750		9.963	
Sample pressure	682	mm Hg	681.7	mm Hg
Sample Flow	1.091	LPM	1.092	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	0.09	N/A
4994	39.94	23.80	23.38	1.0180
4994	19.91	11.91	11.87	1.0033
4994	10.00	6.00	6.10	0.9822
4994	0.00	0.00	0.09	As Found Zero
4994	39.94	23.80	23.38	As Found Span
Average Correction Factor				1.0012

Calculated value of As Found Response: 23.369 ppm Percent Change of As Found: 1.8%

	before calibration		after calibration	
Auto zero	-0.18	ppm	-0.04	ppm
Auto span	21.18	ppm	19.77	ppm

Notes: _____

Calibration Performed By: Dawn Ewan

Calibration Summary

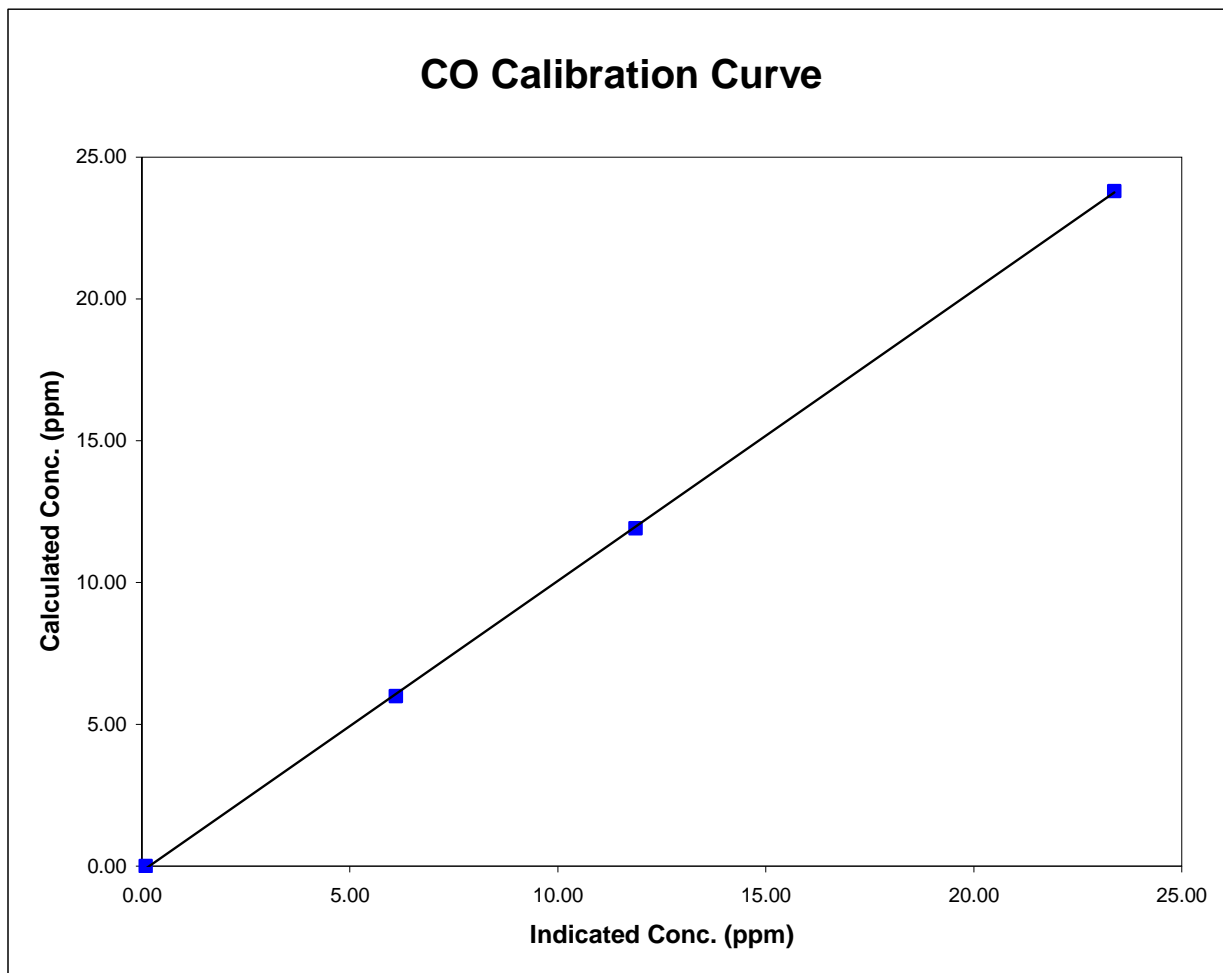
Parameter **CO**Air Monitoring Network **PASZA**

Station Information

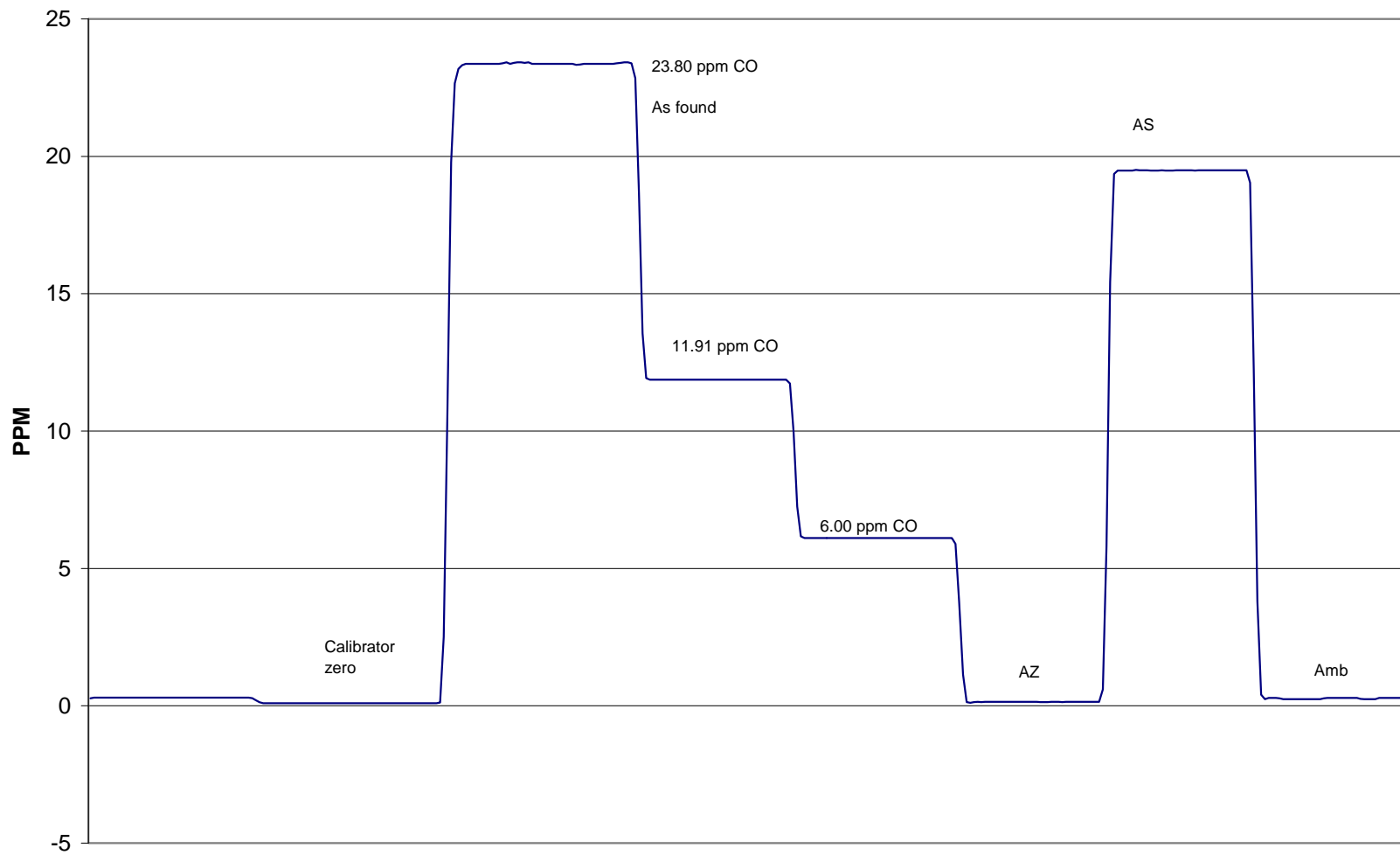
Calibration Date	July 3, 2007	Previous Calibration	June 7, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	12:51	End Time (MST)	13:50
Analyzer make/model	TEI Model 48C	Analyzer serial #	508011062

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.093	N/A		
23.802	23.382	1.0180	Correlation Coefficient	0.999940
11.913	11.874	1.0033		
5.995	6.104	0.9822	Slope	1.023566
			Intercept	-0.179696



CO Calibration



July 3, 2007

Calibration Report



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

Station Information

Calibration Date	July 3, 2007	Previous Calibration	June 19, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:56	End Time (MST)	7/4/07 11:19 AM
Barometric Pressure	0.935 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2844
Cal Gas Concentration	700 ppm CH4/ 299 ppm C3H8	Cal Gas Expiry Date	12/10/2005
Cal Gas CH4 equiv	1522.25 ppm	Cal Gas Cylinder #	ALM 030358
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	0.99576	Calculated slope	1.002325
Calculated intercept	0.134561	Calculated intercept	-0.104200
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	7465	capture	7465	capture
THC zero counts	432	capture	432	capture

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.00	0.00	0.03	N/A
4992	64.92	19.54	19.58	0.9980
4992	39.95	12.08	12.17	0.9930
4993	9.99	3.04	3.22	0.9440
4992	0.00	0.00	0.01	As Found Zero
4992	64.92	19.54	17.98	As Found Span
Average Correction Factor				0.9783

Calculated value of As Found Response: 18.026 ppm Percent Change of As Found: 7.8%

	before calibration		after calibration	
Auto zero	-0.05	ppm	-0.14	ppm
Auto span	22.41	ppm	21.78	ppm

Notes: Rebuilt internal pump.

Calibration Performed By: Dawn Ewan

Calibration Summary



Parameter **THC**

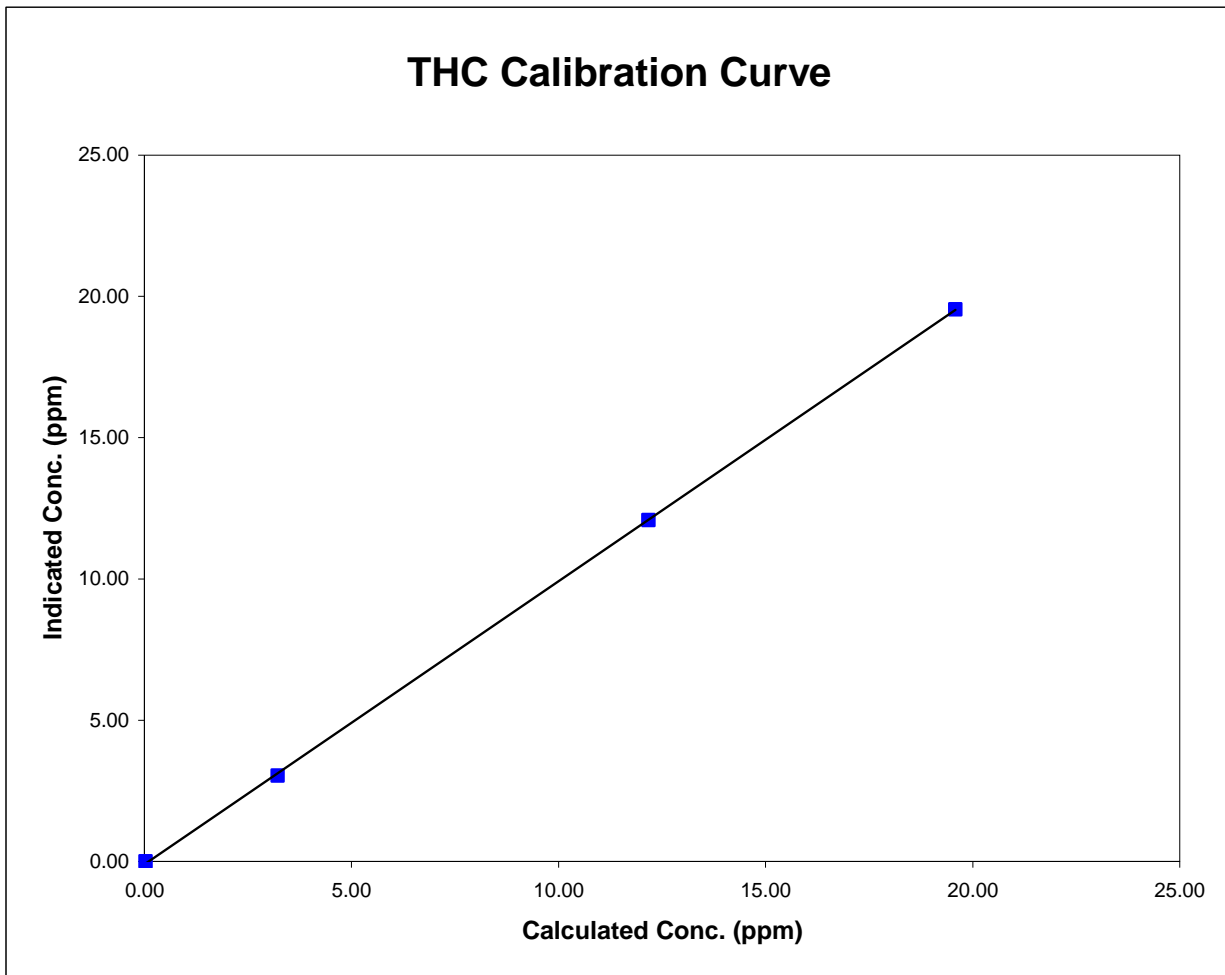
Air Monitoring Network **PASZA**

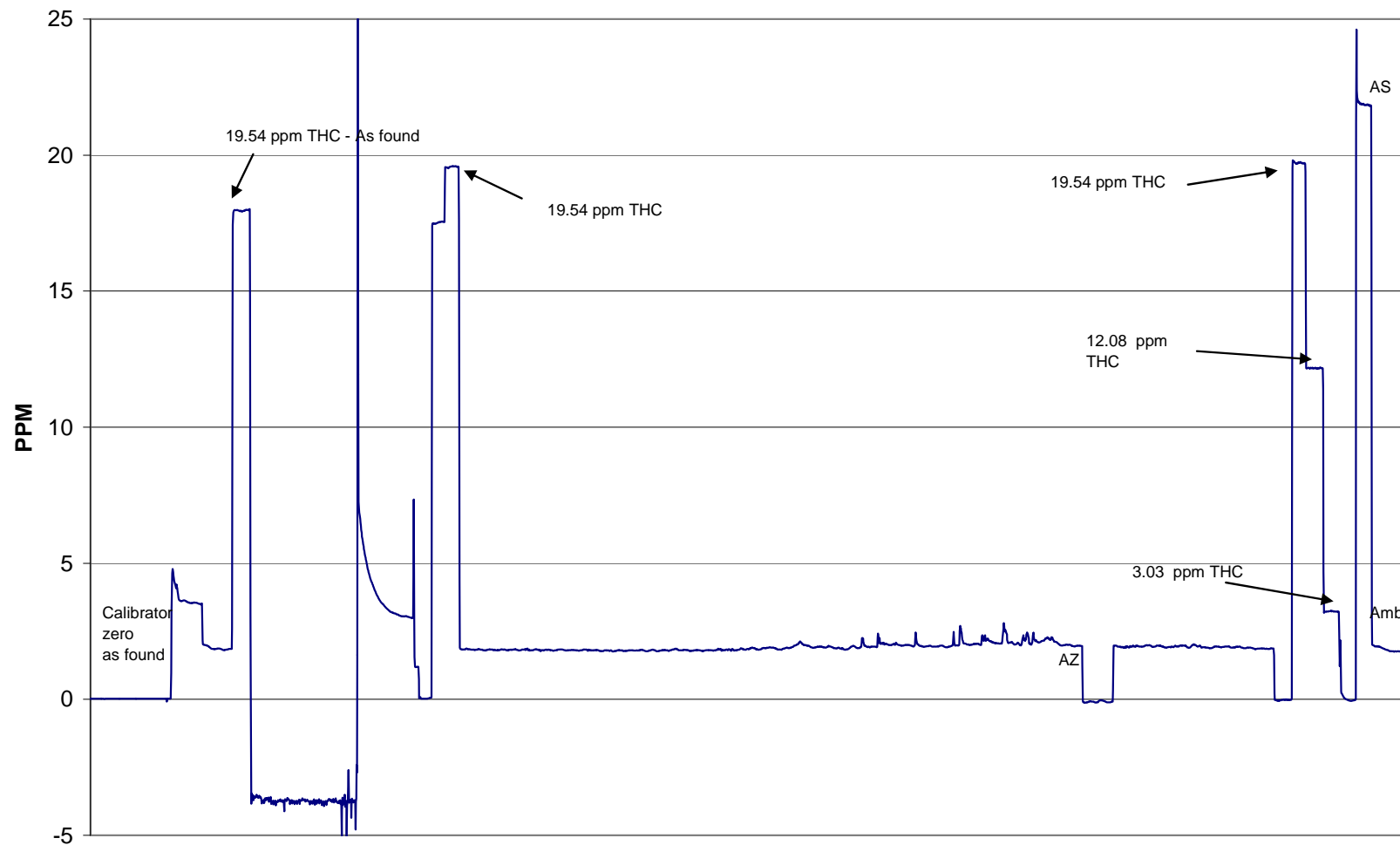
Station Information

Calibration Date	July 3, 2007	Previous Calibration	June 19, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:56	End Time (MST)	11:19
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	0.031	N/A		
19.542	19.581	0.9980	Correlation Coefficient	0.999946
12.084	12.170	0.9930		
3.040	3.220	0.9440	Slope	1.002325
			Intercept	-0.104200



THC Calibration**July 3, 2007**

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

Calibration Date	July 6, 2007	Previous Calibration	June 19, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:16	End Time (MST)	14:00
Barometric Pressure	0.920 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2488
Cal Gas Conc	5.02 ppb	Cal Gas Expiry Date	11/1/2005
		Cal Gas Cylinder #	BLM003489
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	0.976695	Calculated slope	1.001036
Calculated intercept	1.668054	Calculated intercept	0.080024
Analyzer make	TEI 45C	Analyzer serial #	

	before		after	
Concentration range	100	ppb	0 - 25	ppb
Coefficient	20		1.57	
Background	1.15		9.750	
Pressure/Flow	658.4/462	mm Hg	682	mm Hg
Lamp Voltage	861	v	861	v

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)
4994	0.00	0.00	-0.39	N/A
4994	70.00	69.39	69.08	1.0045
4994	40.00	39.89	39.83	1.0016
4994	20.00	20.02	20.33	0.9847
4994	0.00	0.00	-0.39	As Found Zero
4994	70.00	69.39	89.54	As Found Span
Average Correction Factor				0.9969

Calculated value of As Found Response: 89.508 ppb Percent Change of As Found: -29.0%

	before calibration		after calibration	
Auto zero	1.80	ppb	0.14	ppb
Auto span	48.80	ppb	37.91	ppb

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary

Parameter **TRS**

Air Monitoring Network **PASZA**

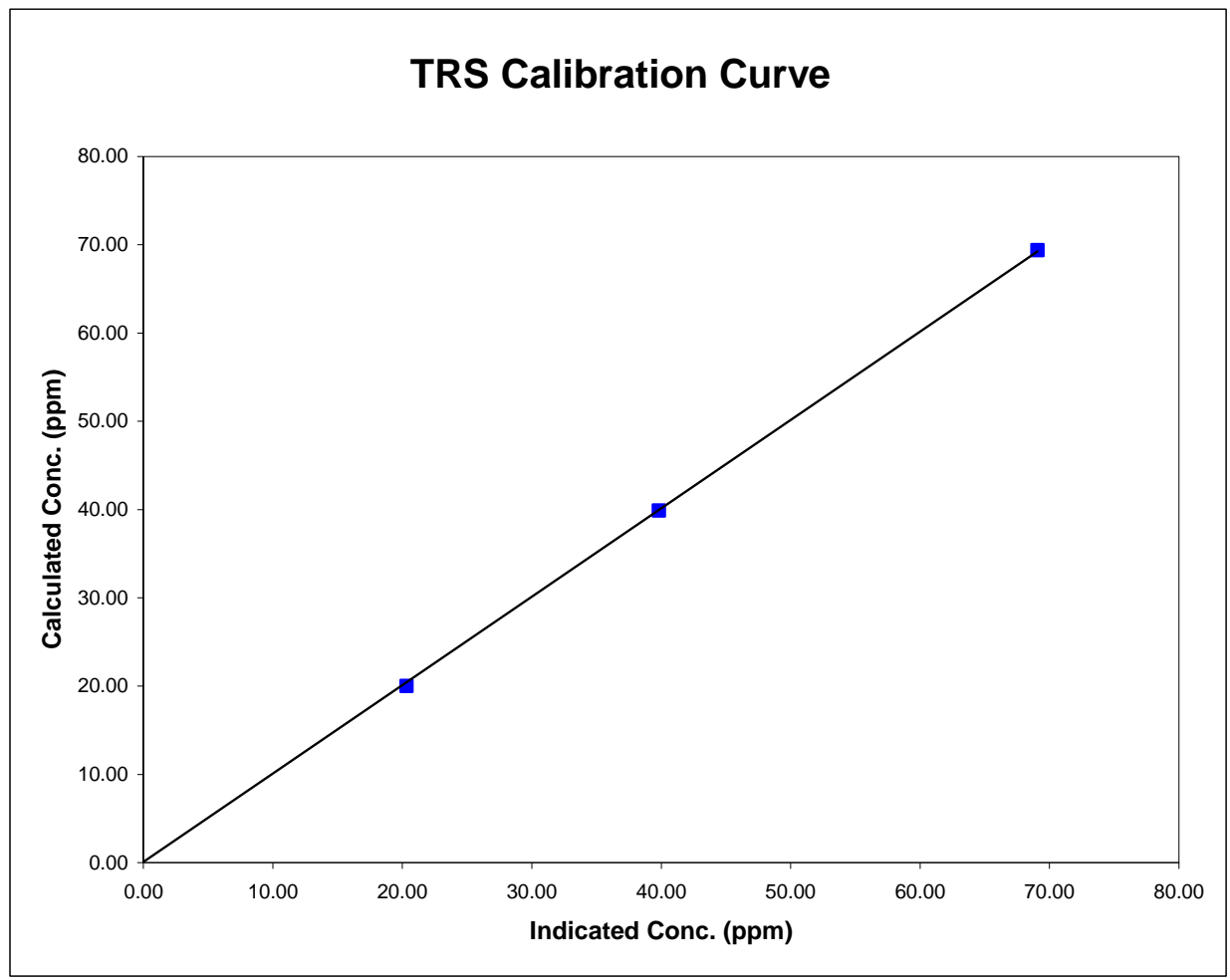


Station Information

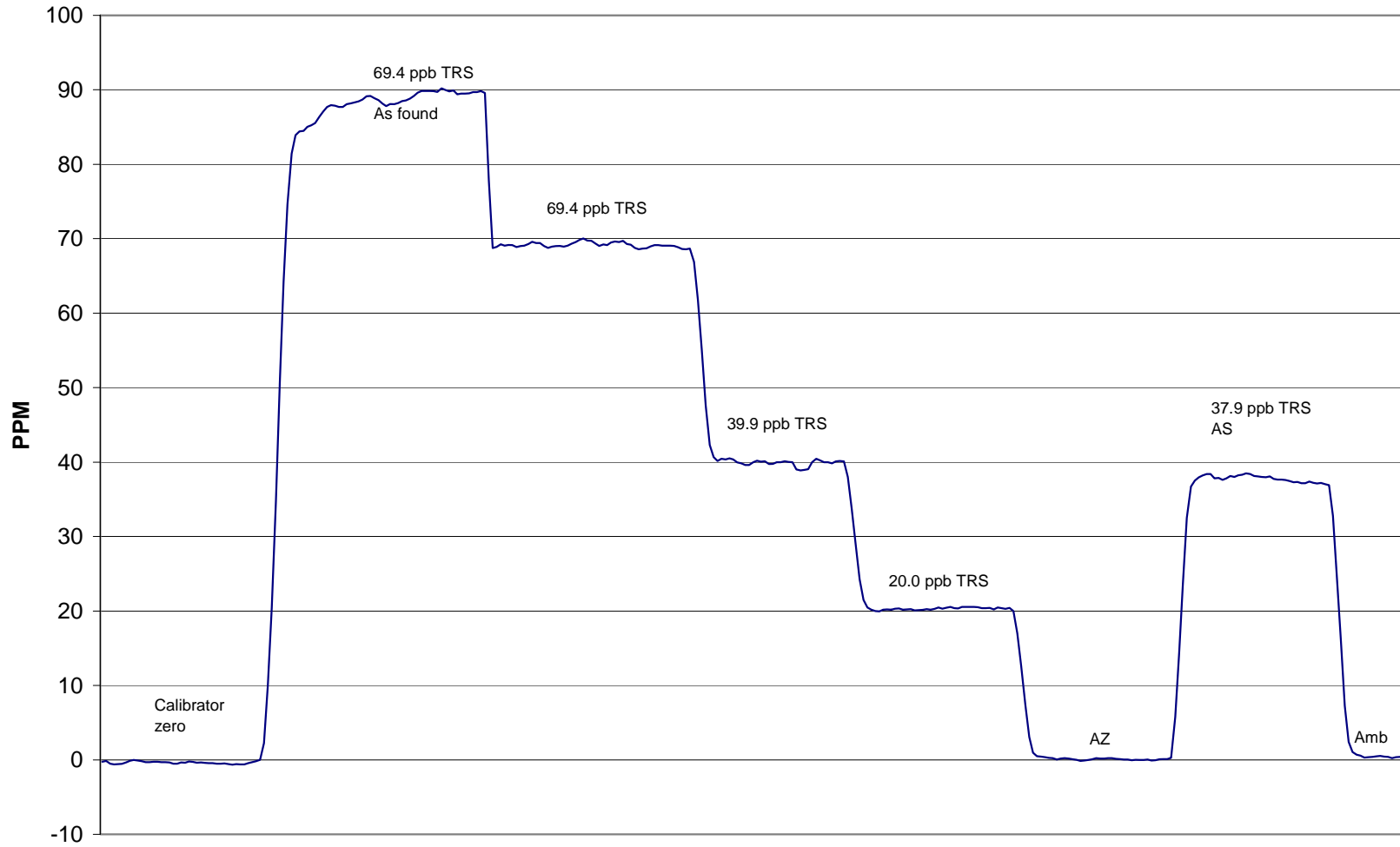
Calibration Date	July 6, 2007	Previous Calibration	June 19, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:16	End Time (MST)	14:00
Analyzer make/model	TEI 45C	Analyzer serial #	0

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.393	N/A		
69.392	69.083	1.0045	Correlation Coefficient	0.999887
39.889	39.827	1.0016		
20.024	20.335	0.9847	Slope	1.001036
			Intercept	0.080024



TRS Calibration



July 6, 2007

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

Calibration Date	July 20, 2007	Previous Calibration	July 6, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
		<input checked="" type="checkbox"/> Other:	analyzer resp verif
Start Time (MST)	7:30	End Time (MST)	12:45
Barometric Pressure	0.915 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2488
Cal Gas Conc	5.02 ppb	Cal Gas Expiry Date	11/1/2005
		Cal Gas Cylinder #	BLM003489
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.001036	Calculated slope	0.976204
Calculated intercept	0.080024	Calculated intercept	0.483726
Analyzer make	TEI 45C	Analyzer serial #	

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Coefficient	0.881		1.133	
Background	15.4		19.7	
Pressure/Flow	652.3 / 0.456	mm Hg	652.3 / 0.456	mm Hg
Lamp Voltage	861	v	861	v

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)
4994	0.00	0.00	-0.52	N/A
4994	69.88	69.27	70.55	0.9819
4994	39.92	39.81	40.11	0.9924
4994	9.80	9.83	9.69	1.0145
4994	0.00	0.00	-0.52	As Found Zero
4994	70.00	69.39	50.94	As Found Span
Average Correction Factor				0.9963

Calculated value of As Found Response: 51.6 ppb Percent Change of As Found: 25.6%

	before calibration		after calibration	
Auto zero	0.14	ppb	0.28	ppb
Auto span	37.91	ppb	38.91	ppb

Notes: Performed as found; cause of response shift determined to be analyzer slope change. Span adjusted and recalibrated TRS analyzer.Calibration Performed By: Kelly Baragar

Calibration Summary

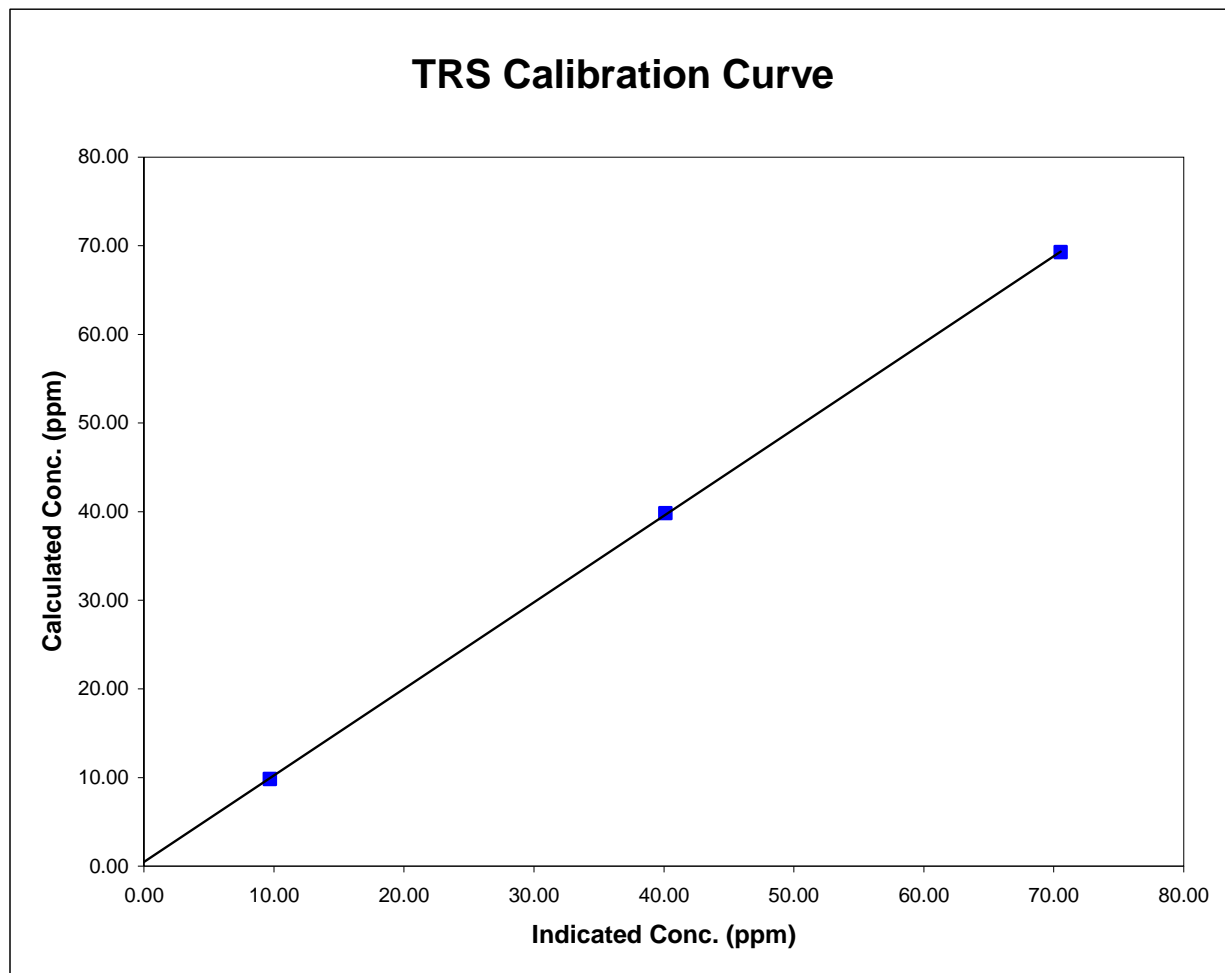
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

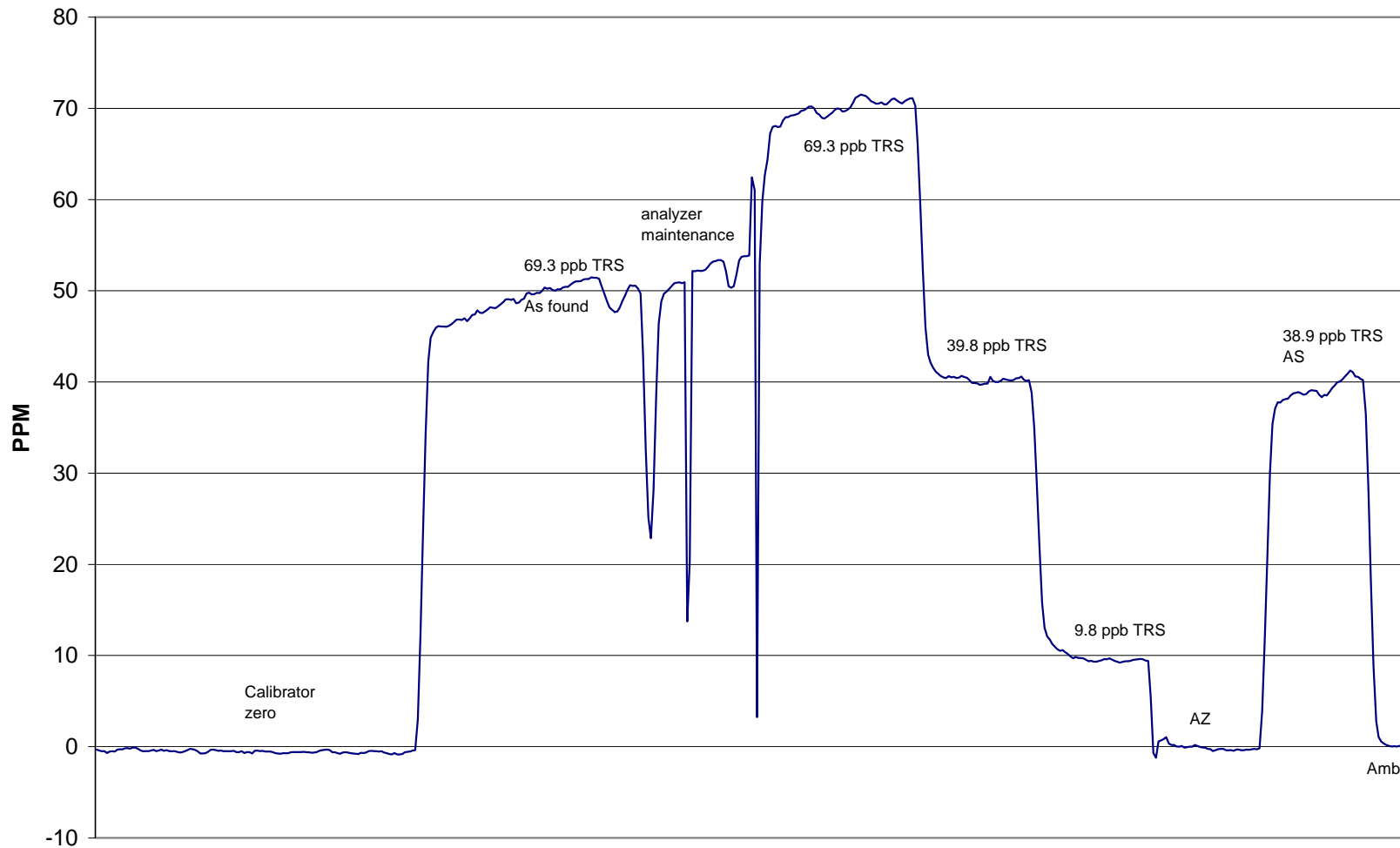
Calibration Date	July 20, 2007	Previous Calibration	July 6, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	7:30	End Time (MST)	12:45
Analyzer make/model	TEI 45C	Analyzer serial #	0

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.522	N/A		
69.274	70.548	0.9819	Correlation Coefficient	0.999984
39.810	40.114	0.9924		
9.832	9.692	1.0145	Slope	0.976204
			Intercept	0.483726



TRS Calibration



July 20, 2007

Calibration Report



Parameter

SO₂

Air Monitoring Network

PASZA

Station Information

Calibration Date	July 12, 2007	Previous Calibration	June 21, 2007
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	12:35	End Time (MST)	15:24
Barometric Pressure	0.9 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2488
Perm-tube Conc	49.6 ppm	Cal Gas Expiry Date	1/2/2009
Correction factor	0.031273	Cal Gas Cylinder #	FF-5013
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	6
	Before		After
Calculated slope	1.019231	Calculated slope	0.999416
Calculated intercept	2.789344	Calculated intercept	1.258980
Analyzer make	Teco 43i	Analyzer serial #	701120008

	before		after	
Concentration range	1000	ppb	1000	ppb
Background	8.9		8.9	
coefficient	0.833		0.928	
Lamp Voltage	838	volts	837	volts
Chamber Temp	45.3	Deg C	45.4	Deg C
Perm Gas Temp	45	Deg C	45.01	Deg C
Pressure	666.8	mm Hg	670.1	mm Hg
Sample Flow	445	ccm	448	ccm
Lamp Intensity	90	%	89	%

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	0.0	0.00	0.5	N/A
5000	40.0	393.65	393.6	1.0002
5000	20.0	197.61	195.3	1.0119
5000	10.0	99.00	96.3	1.0278
zero	0.0	0.00	0.5	As Found Zero
5000	40.0	393.65	355.3	As Found Span
Average Correction Factor				1.0133

Calculated value of As Found Response: 364.507 ppm Percent Change of As Found: 7.4%

	before calibration		after calibration	
Auto zero	2.5	ppm	1.7	ppm
Auto span	204.2	ppm	283.5	ppm

Notes:

Calibration Performed By: Dawn Ewan

Calibration Summary



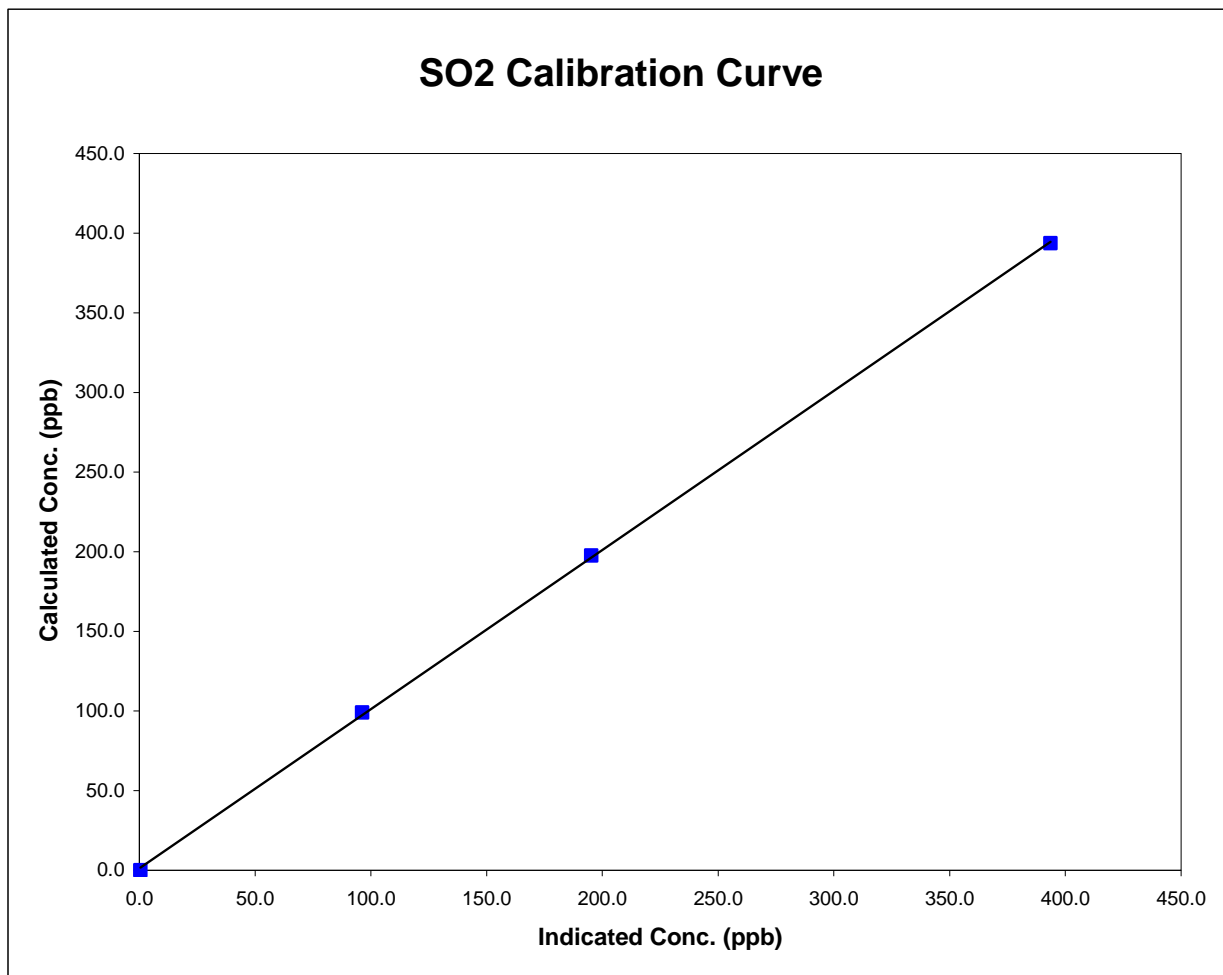
Parameter **SO2**
 Air Monitoring Network **PASZA**

Station Information

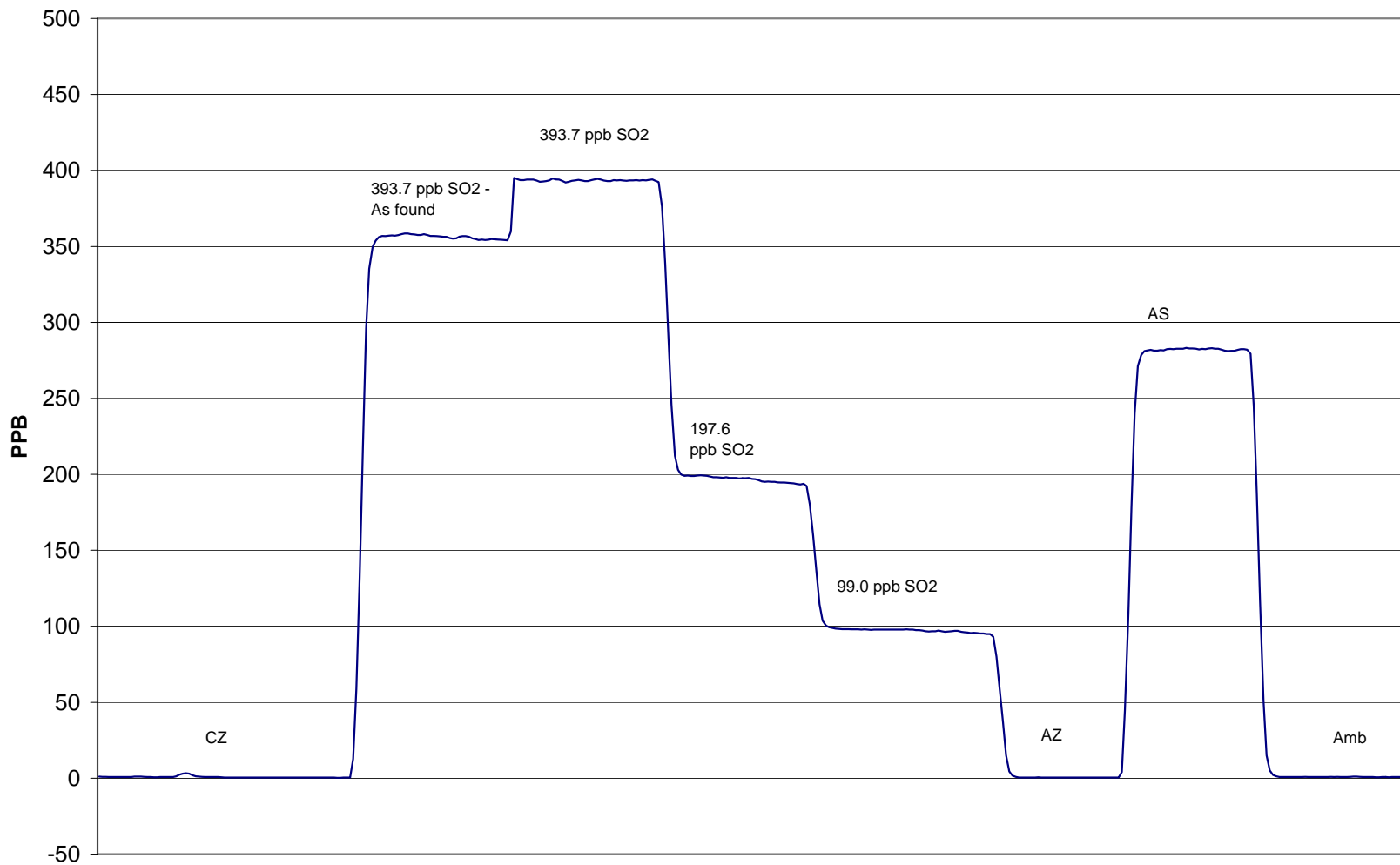
Calibration Date	July 12, 2007	Previous Calibration	June 21, 2007
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	12:35	End Time (MST)	15:24
Analyzer make/model	Teco 43i	Analyzer serial #	701120008

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.5	N/A		
393.7	393.6	1.0002	Correlation Coefficient	0.999913
197.6	195.3	1.0119		
99.0	96.3	1.0278	Slope	0.999416
			Intercept	1.258980



SO2 Calibration



July 12, 2007

Calibration Report

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

Station Information

Calibration Date	July 12, 2007	Previous Calibration	June 21, 2007
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:29	End Time (MST)	15:13
Barometric Pressure	0.92 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2488
Cal Gas Conc	5.02 ppm	Cal Gas Expiry Date	Nov 15 2005
Correction factor	0.031341	Cal Gas Cylinder #	BLM003489
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	1.024978	Calculated slope	0.977102
Calculated intercept	0.819826	Calculated intercept	1.878498
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	100	ppb	100	ppb
Background coefficient	17.5	ppb	17.5	ppb
Lamp Voltage	1.085		0.976	
Chamber Temp	786	volts	787	volts
Perm Gas Temp	44.1	Deg C	44.2	Deg C
Pressure	44.99	Deg C	45	Deg C
Sample Flow	637	mm Hg	630.9	mm Hg
Lamp Intensity	469	ccm	466	ccm
	46,200	mv	45,700	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	0.0	0.00	-1.8	N/A
5000	75.0	74.19	74.1	1.0007
5000	40.0	39.84	38.6	1.0322
5000	20.0	20.00	18.6	1.0778
zero	0.0	0.00	-1.8	As Found Zero
5000	75.0	74.19	82.1	As Found Span
Average Correction Factor				1.0369

Calculated value of As Found Response: 86.83 ppm Percent Change of As Found: -17.0%

	before calibration		after calibration	
Auto zero	-1.2	ppm	0.3	ppm
Auto span	79.7	ppm	66.3	ppm

Notes: _____

Calibration Performed By: Dawn Ewan

Calibration Summary

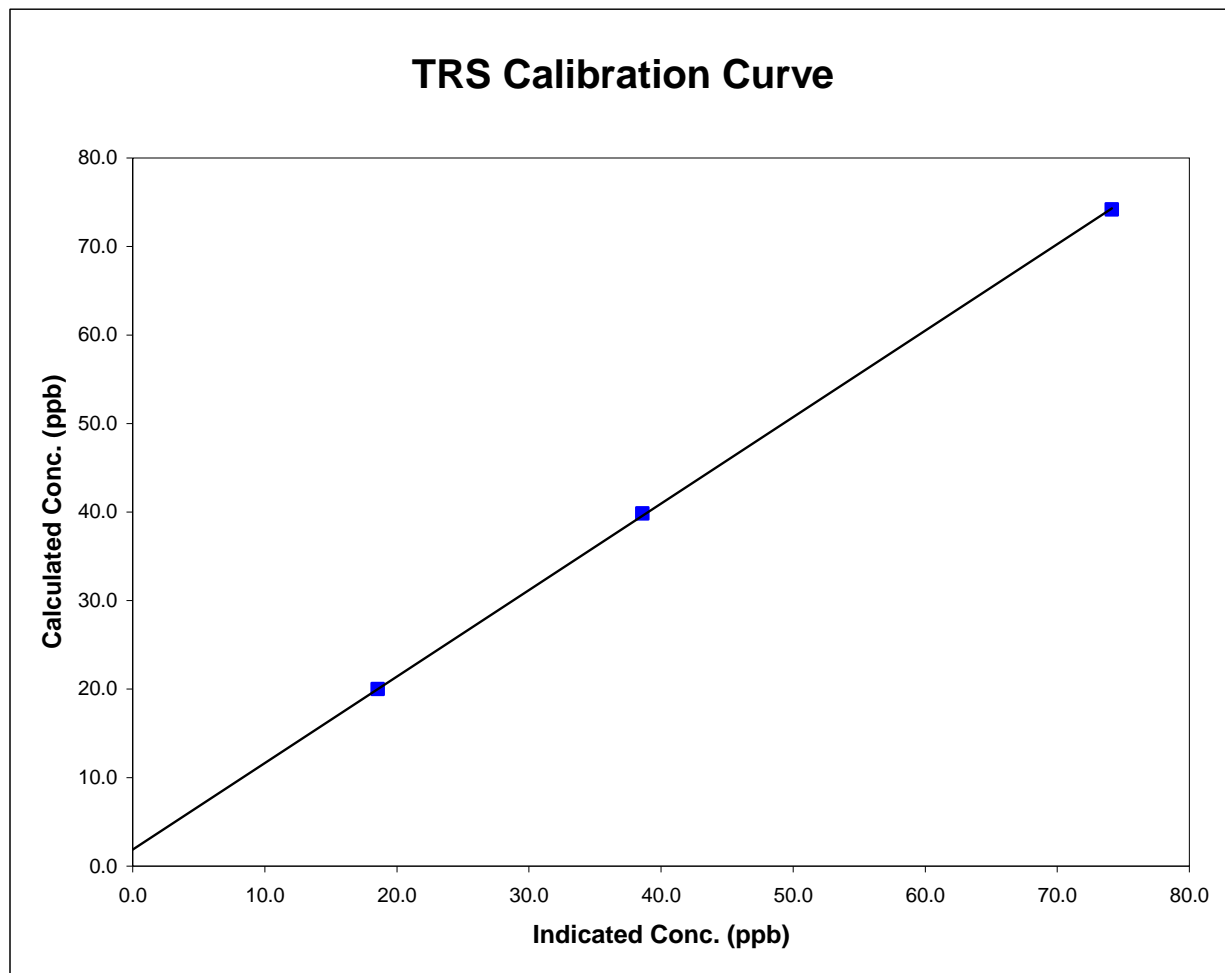
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

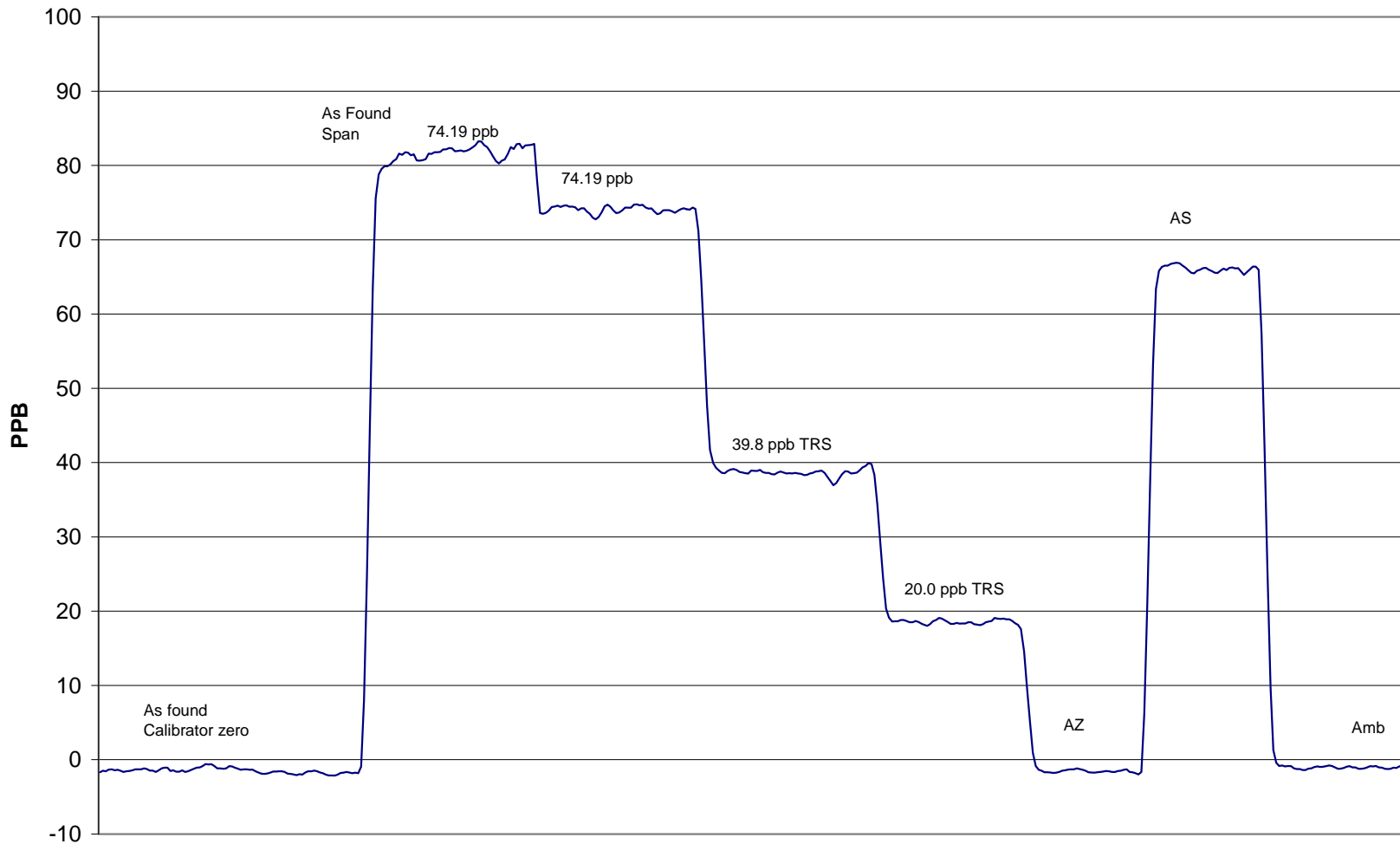
Calibration Date	July 12, 2007	Previous Calibration	June 21, 2007
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	11:29	End Time (MST)	15:13
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-1.8	N/A		
74.2	74.1	1.0007	Correlation Coefficient	0.999970
39.8	38.6	1.0322		
20.0	18.6	1.0778		
			Slope	0.977102
			Intercept	1.878498



TRS Calibration



July 12, 2007

Calibration Report



Parameter

SO₂

Air Monitoring Network

PASZA

Station Information

Calibration Date	July 10, 2007	Previous Calibration	June 23, 2007
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	12:35	End Time (MST)	15:03
Barometric Pressure	0.9 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2488
Perm-tube Conc	49.6 ppm	Cal Gas Expiry Date	1/2/2009
Correction factor	0.031273	Cal Gas Cylinder #	FF-5013
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
Calculated slope	0.955933	Calculated slope	1.032053
Calculated intercept	2.162745	Calculated intercept	3.038717
Analyzer make	Teco 43i	Analyzer serial #	70112009

	before		after	
Concentration range	500	ppb	500	ppb
Background	5.1		5.1	
coefficient	0.813		0.813	
Lamp Voltage	868	V	870	V
Chamber Temp	45	Deg C	45	Deg C
Perm Gas Temp	44.99	Deg C	45	Deg C
Pressure	668.1	"Hg	670.8	"Hg
Sample Flow	444	cc/min	446	cc/min
Lamp Intesity	90	%	89	%

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	0.0	0.0	0.1	N/A
5000	40.0	393.65	380.5	1.0346
5000	20.0	197.61	185.3	1.0662
5000	10.0	99.00	91.1	1.0866
zero	0.0	0.00	0.1	As Found Zero
5000	40.0	393.65	380.5	As Found Span
Average Correction Factor				1.0625

Calculated value of As Found Response: 365.767 ppm Percent Change of As Found: 7.1%

	before calibration		after calibration	
Auto zero	2.2	ppm	3.1	ppm
Auto span	292.6	ppm	323.3	ppm

Notes: No adjustments made.

Calibration Performed By: Dawn Ewan

Calibration Summary



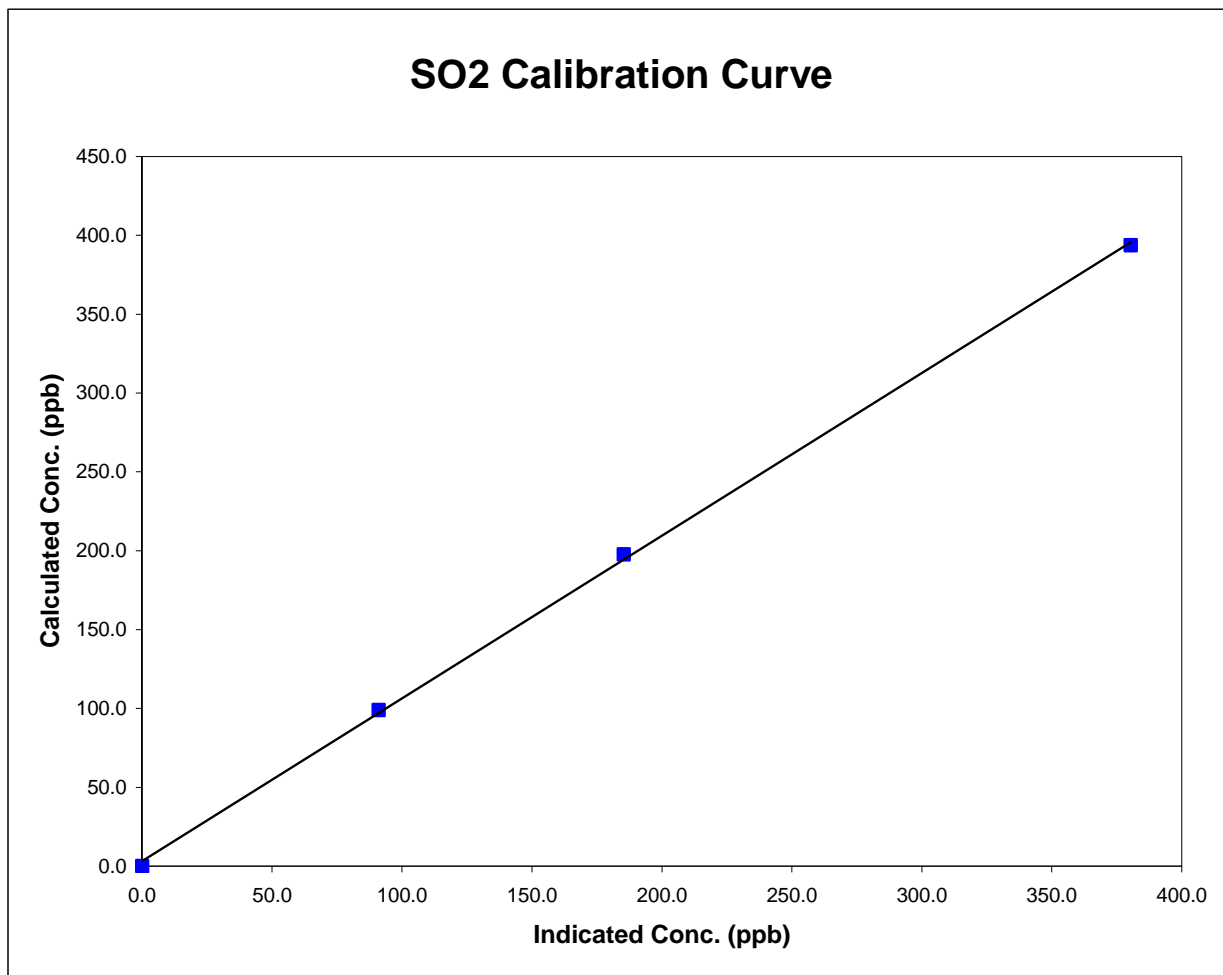
Parameter **SO2**
 Air Monitoring Network **PASZA**

Station Information

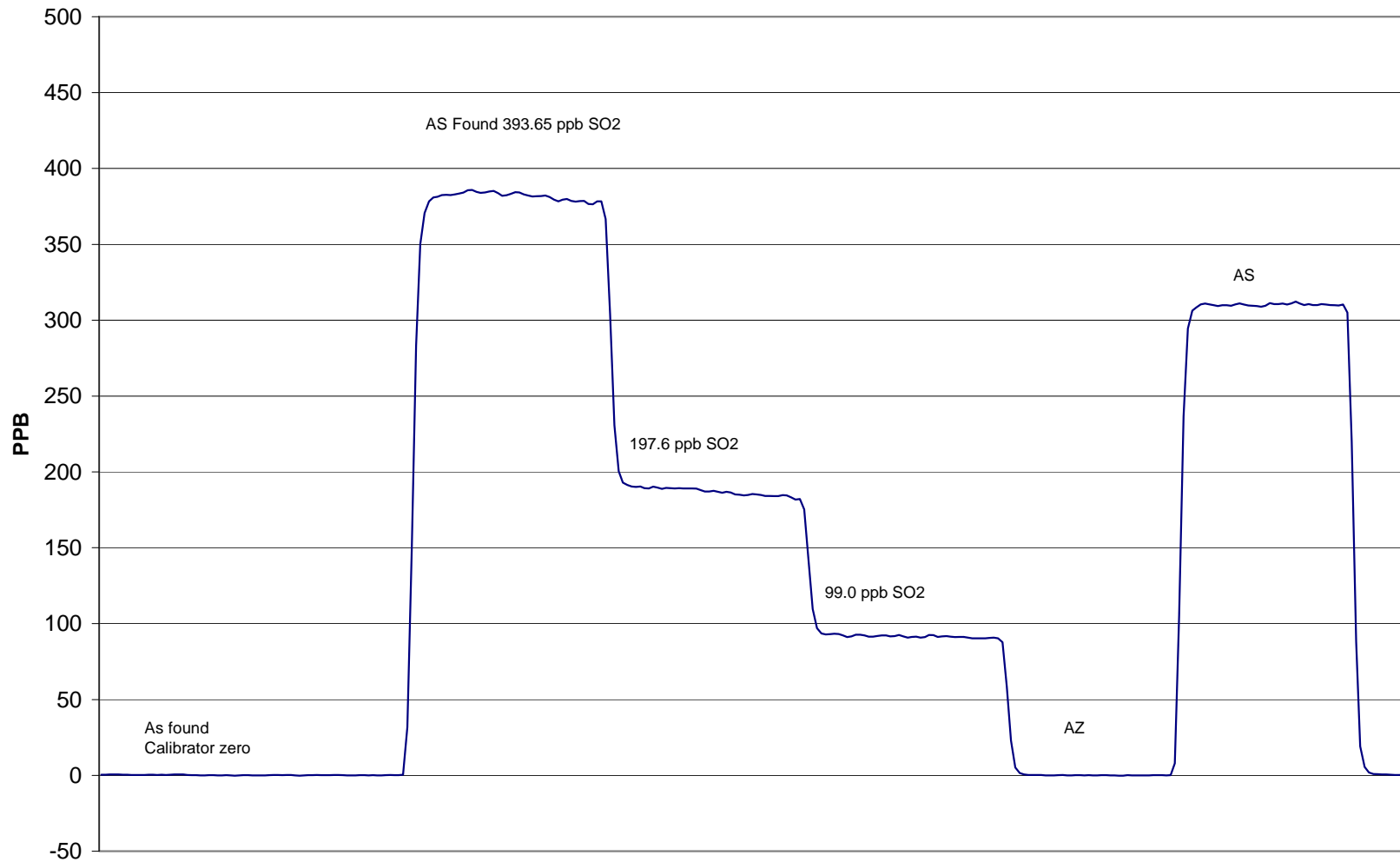
Calibration Date	July 10, 2007	Previous Calibration	June 23, 2007
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	12:35	End Time (MST)	15:03
Analyzer make/model	Teco 43i	Analyzer serial #	70112009

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	N/A		
393.7	380.5	1.0346	Correlation Coefficient	0.999660
197.6	185.3	1.0662		
99.0	91.1	1.0866	Slope	1.032053
			Intercept	3.038717



SO2 Calibration



July 10, 2007

Calibration Report

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

Station Information

Calibration Date	July 10, 2007	Previous Calibration	June 23, 2007
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	10:50	End Time (MST)	13:27
Barometric Pressure	0.92 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2488
Cal Gas Conc	5.02 ppm	Cal Gas Expiry Date	Nov 15 2005
Correction factor		Cal Gas Cylinder #	BLM003489
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	0.879723	Calculated slope	0.995901
Calculated intercept	-0.625263	Calculated intercept	-0.115270
Analyzer make	TEI Model 43C	Analyzer serial #	436610004

	before		after	
Concentration range	100	ppb	100	ppb
Background	15.1	ppb	11.5	ppb
coefficient	1.343		1.006	
Lamp Voltage	774	volts	767	volts
Chamber Temp	44.1	Deg C	44	Deg C
Perm Gas Temp	45.02	Deg C	45	Deg C
Pressure	492.7	mm Hg	483.5	mm Hg
Sample Flow	777	ccm	763	ccm
Lamp Intesity	32,400	mv	32,500	mv

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
zero	0.0	0.0	0.1	N/A
5000	70.0	69.31	69.7	0.9949
5000	45.0	44.78	45.1	0.9919
5000	20.0	20.00	20.2	0.9898
zero	0.0	0.00	0.1	As Found Zero
5000	70.0	69.31	91.7	As Found Span
Average Correction Factor				0.9922

Calculated value of As Found Response: 79.98 ppm Percent Change of As Found: -15.4%

	before calibration		after calibration	
Auto zero	-0.3	ppm	0.3	ppm
Auto span	49.9	ppm	43.2	ppm

Notes: Adjusted span.

Calibration Performed By: Dawn Ewan

Calibration Summary



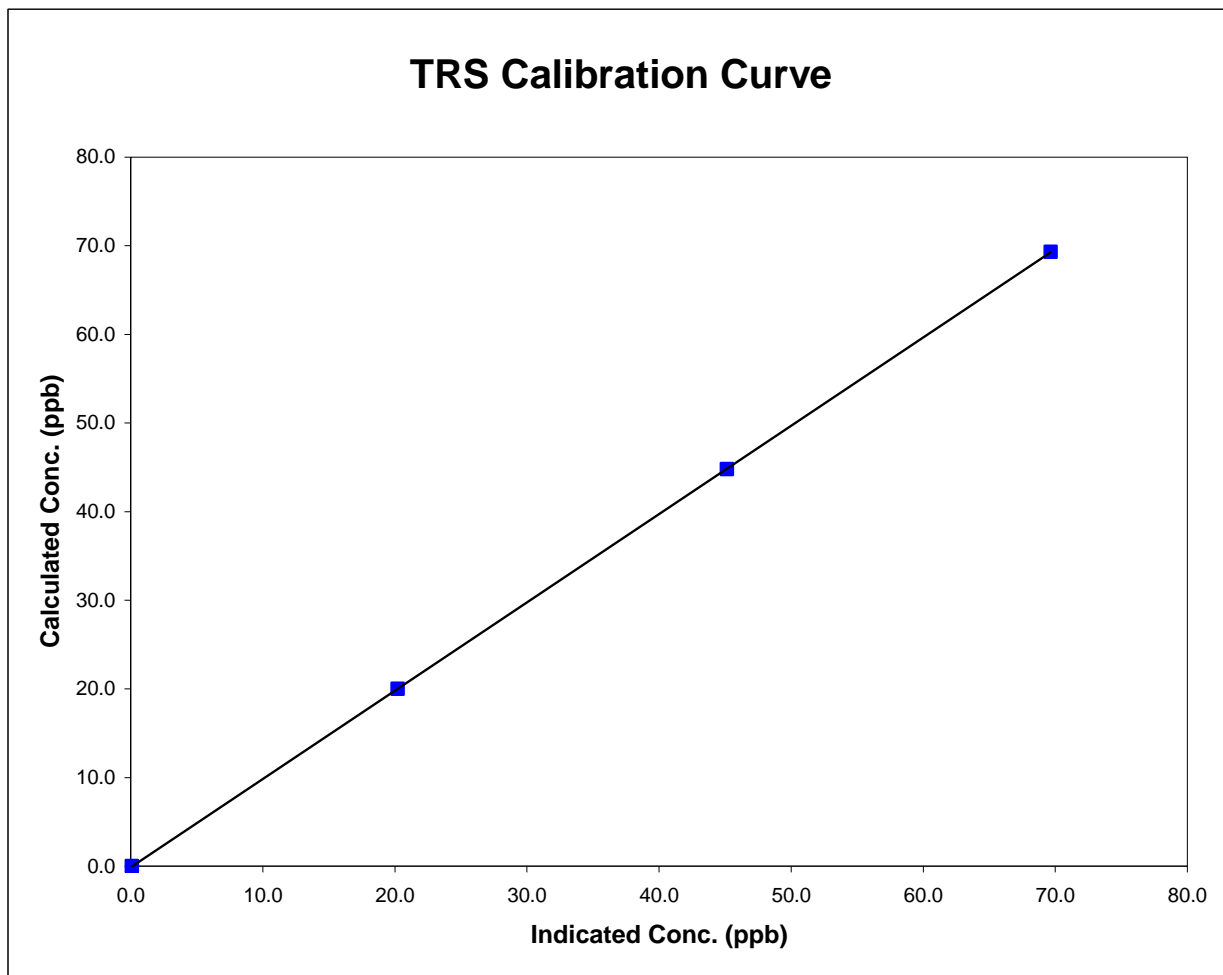
Parameter **TRS**
 Air Monitoring Network **PASZA**

Station Information

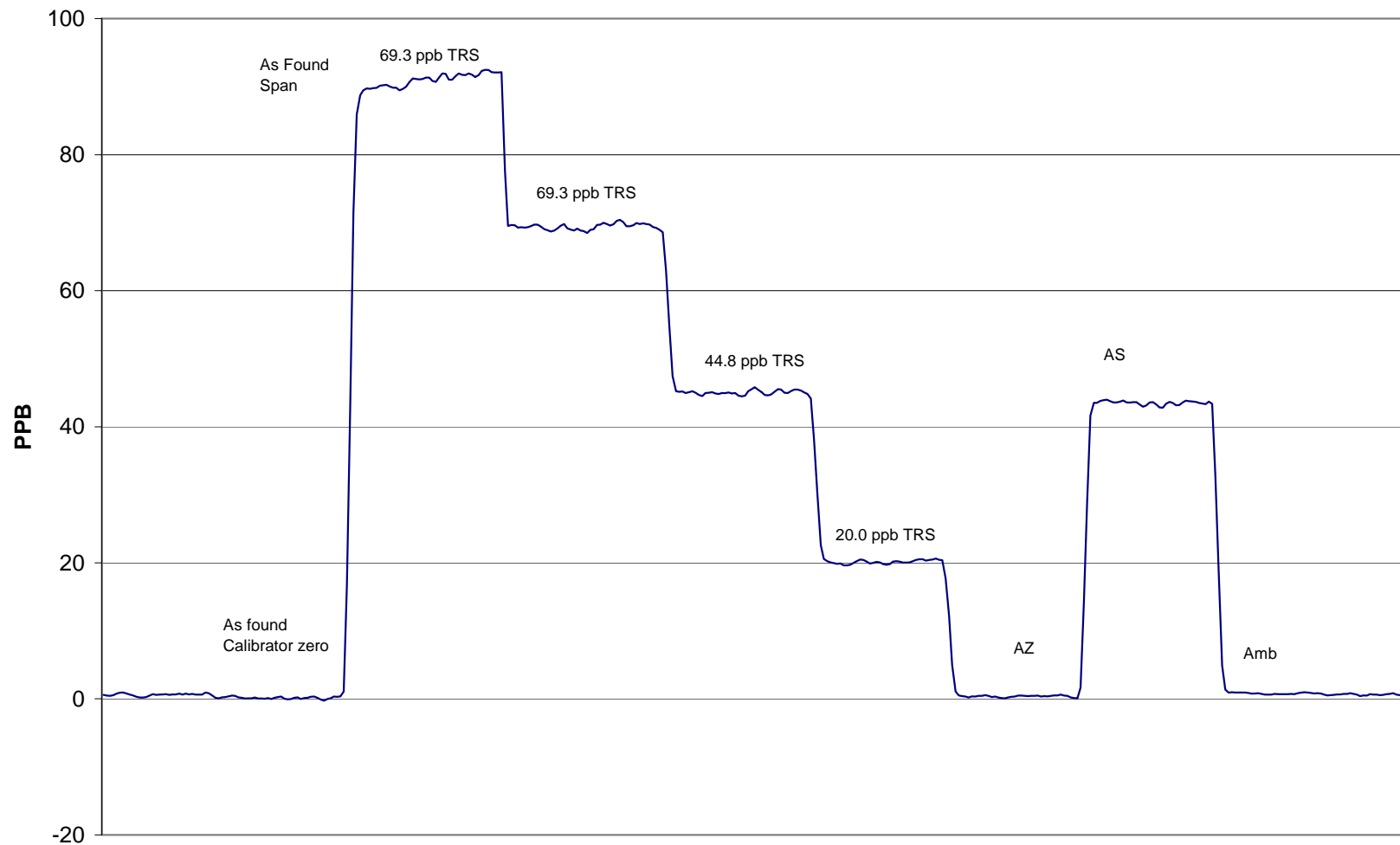
Calibration Date	July 10, 2007	Previous Calibration	June 23, 2007
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	22:07	End Time (MST)	13:27
Analyzer make/model	TEI Model 43C	Analyzer serial #	436610004

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	N/A		
69.3	69.7	0.9949	Correlation Coefficient	0.999998
44.8	45.1	0.9919		
20.0	20.2	0.9898		
			Slope	0.995901
			Intercept	-0.115270



TRS Calibration



July 10, 2007

Calibration Report
 Parameter **SO₂**
 Air Monitoring Network **PASZA**
**Station Information**

Calibration Date	July 13, 2007	Previous Calibration	June 5, 2007
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	13:54	End Time (MST)	16:47
Barometric Pressure	0.902 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2844
Cal Gas Make	Spectra	Cal Gas Expiry Date	January 2, 2009
Cal Gas Conc.	49.6 ppm	Cal Gas Cylinder #	FF-5013
DACS make	Focus AP1000	DACS serial No.	45267
DACS voltage range	0 - 10 volt	DACS channel #	3
	<u>Before</u>		<u>After</u>
Calculated slope	1.005983	Calculated slope	1.000606
Calculated intercept	-0.195603	Calculated intercept	-0.287944
Analyzer make	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	1.97	ppb	1.97	ppb
Coefficient	0.756		0.756	
Lamp Voltage	896.0	Volts	896.0	Volts
Chamber Temp	44.4	Deg C	44.4	Deg C
Sample Flow	576	ccm	576	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)
8950	0.00	0.00	0.29	N/A
8950	14.96	82.77	82.95	0.9978
8950	9.90	54.80	55.18	0.9932
8950	5.00	27.69	27.90	0.9928
8950	0.00	0.00	0.28	As Found Zero
8950	14.96	82.77	77.77	As Found Span
Average Correction Factor				0.9946

Calculated value of As Found Response: 77.760 ppm Percent Change of As Found: 6.1%

	before calibration		after calibration	
Auto zero	8.32	ppm	-1.44	ppm
Auto span	18.64	ppm	27.14	ppm

Notes: Analyzer was zero and span adjusted.

 Calibration Performed By: Dawn Ewan

Calibration Summary

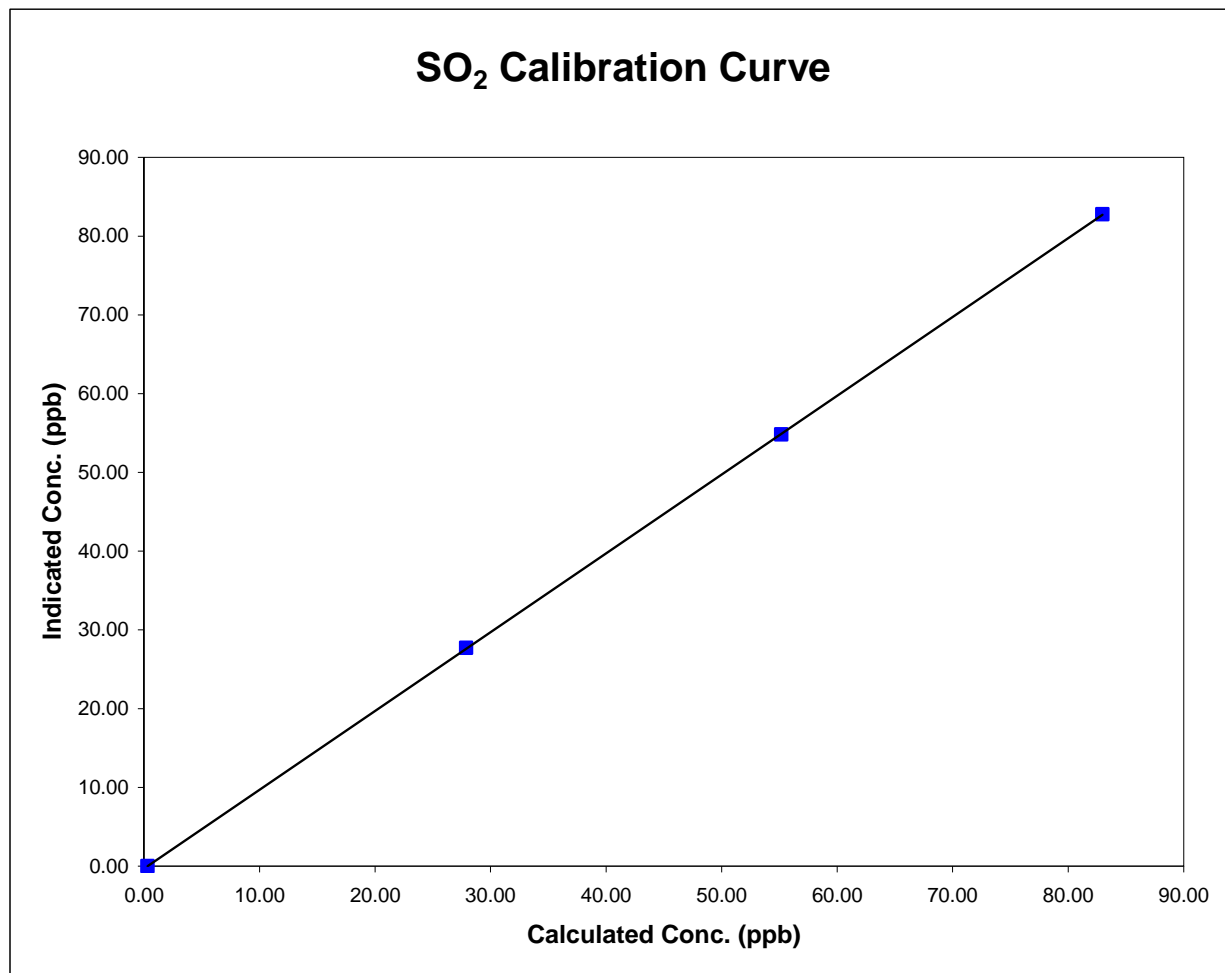
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

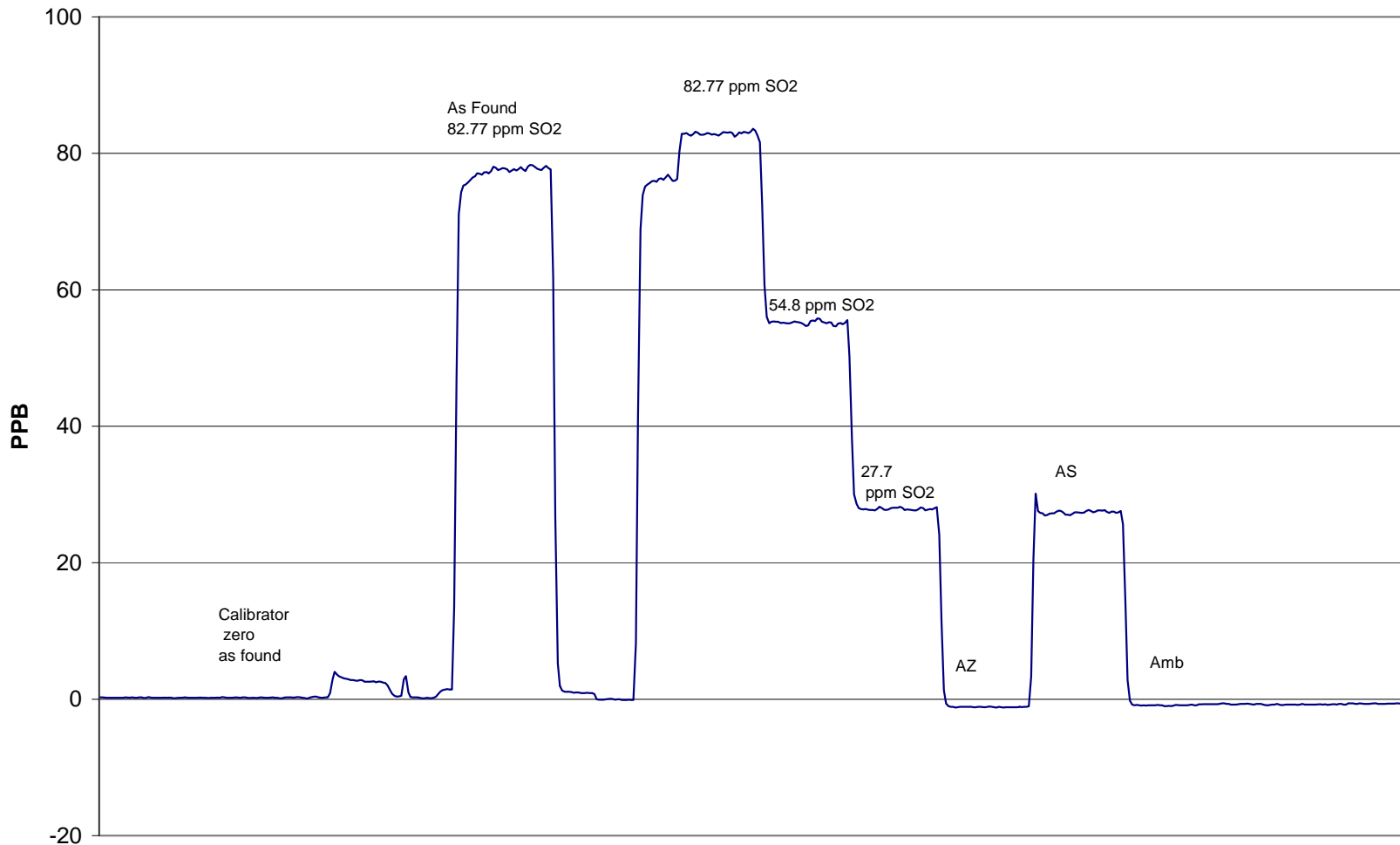
Calibration Date	July 13, 2007	Previous Calibration	June 5, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	13:54	End Time (MST)	16:47
Analyzer make/model	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.294	N/A		
82.768	82.950	0.9978	Correlation Coefficient	0.999994
54.804	55.178	0.9932		
27.694	27.895	0.9928	Slope	1.000606
			Intercept	-0.287944



SO₂ Calibration



July 13, 2007

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA**Station Information**

Calibration Date	July 13, 2007	Previous Calibration	June 4, 2007
Station Number	4	Station Location	Beaverlodge
Reason:	Routine	Installation	Removal
Other:			
Start Time (MST)	11:03	End Time (MST)	14:35
Barometric Pressure	0.912 Atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2488
NO Cal Gas Conc	49.5 ppm	Cal Gas Expiry Date	2-Jan-09
NOx Cal Gas Conc	49.6 ppm	Cal Gas Serial #	FF-5013

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	45269
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Parameter		NO ₂	NO _x	NO
Before	Data Slope	1.001682	1.001337	1.001255
	Data Offset	-0.042277	0.354810	0.931745
After	Data Slope	1.003345	0.995538	0.988580
	Data Offset	1.874886	-1.470541	-0.821823
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
NO _x background	1.4	ppb	1.4	mV
NO coefficient	1.102		1.102	
NO _x coefficient	0.999		0.999	
Box Temp	33.5	ccm	33.2	ccm
Chamber Temp	49.2	Deg C	49.3	Deg C
Cooler Temp	-2.2	Deg C	-2.1	Deg C
Converter Temp	323.0	Deg C	323.0	Deg C
Sample Flow	773.0	LPM	768.0	LPM
Ozonator Flow	0.086	LPM	0.086	LPM
Pressure	166.9	inches HG	172.4	inches Hg

Notes: No adjustments or maintenance performed.

Calibration Report

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



Station Information

Calibration Date: **July 13, 2007** 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	0.7	-0.3	-0.3	N/A	N/A
1	4996	79.86	780.4	778.8	1.6	785.0	788.1	-4.0	0.9941	0.9882
2	4996	39.98	393.8	393.0	0.8	397.2	398.7	-1.9	0.9913	0.9855
3	4996	20.00	197.8	197.4	0.4	201.1	201.8	-0.8	0.9836	0.9783
AFZ	4996	0.00	0.0	0.0	0.0	0.7	-0.3	-0.3	0.0000	0.0000
AFS	4996	79.86	780.4	778.8	1.6	785.0	788.1	-4.0	0.9941	0.9882
Average Correction Factor									0.9897	0.9840

As Found Concentrations: NO_x= 784.7 NO= 789.3 As Found Percent Change NO_x= 0.6% NO= 1.4%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

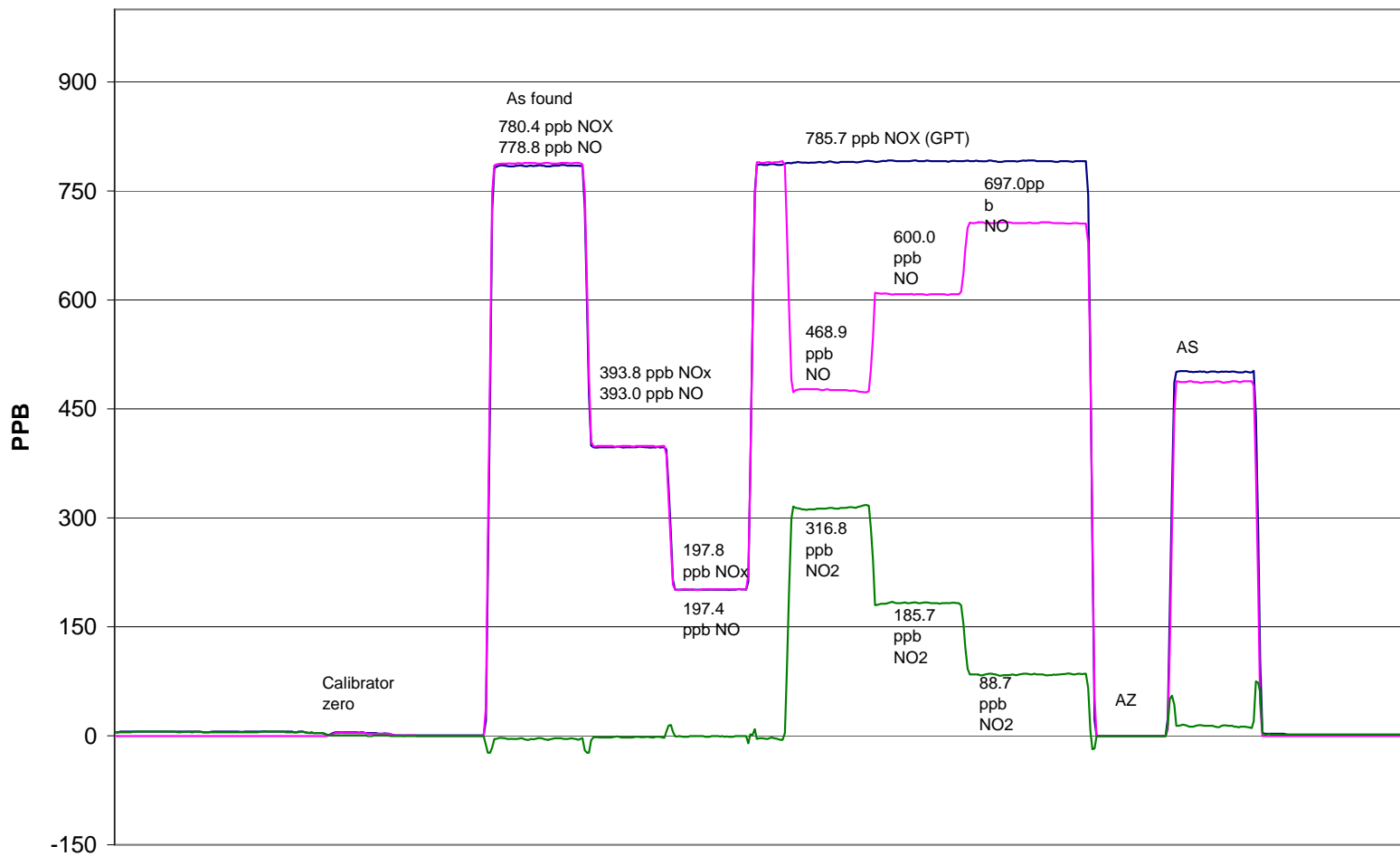
O3 Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	785.7	779.6	6.1	786.4	789.5	-3.9	0.9991	0.9875	N/A	N/A
350	785.7	468.9	316.8	790.1	475.2	314.5	0.9945	0.9869	1.0071	99.3%
200	785.7	600.0	185.7	791.2	607.8	182.9	0.9931	0.9872	1.0152	98.5%
100	785.7	697.0	88.7	790.9	705.9	84.6	0.9935	0.9874	1.0487	95.4%
Average Correction Factor							0.9937	0.9872	1.0237	97.7%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	0.1	-0.4	0.6	ppb	-1.8	1.5	-1.2	ppb
Auto span	506.6	13.1	493.3	ppb	497.1	14.8	481.0	ppb

Calibration Performed By: Dawn Ewan

NOx Calibration



July 13, 2007

Calibration Summary

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

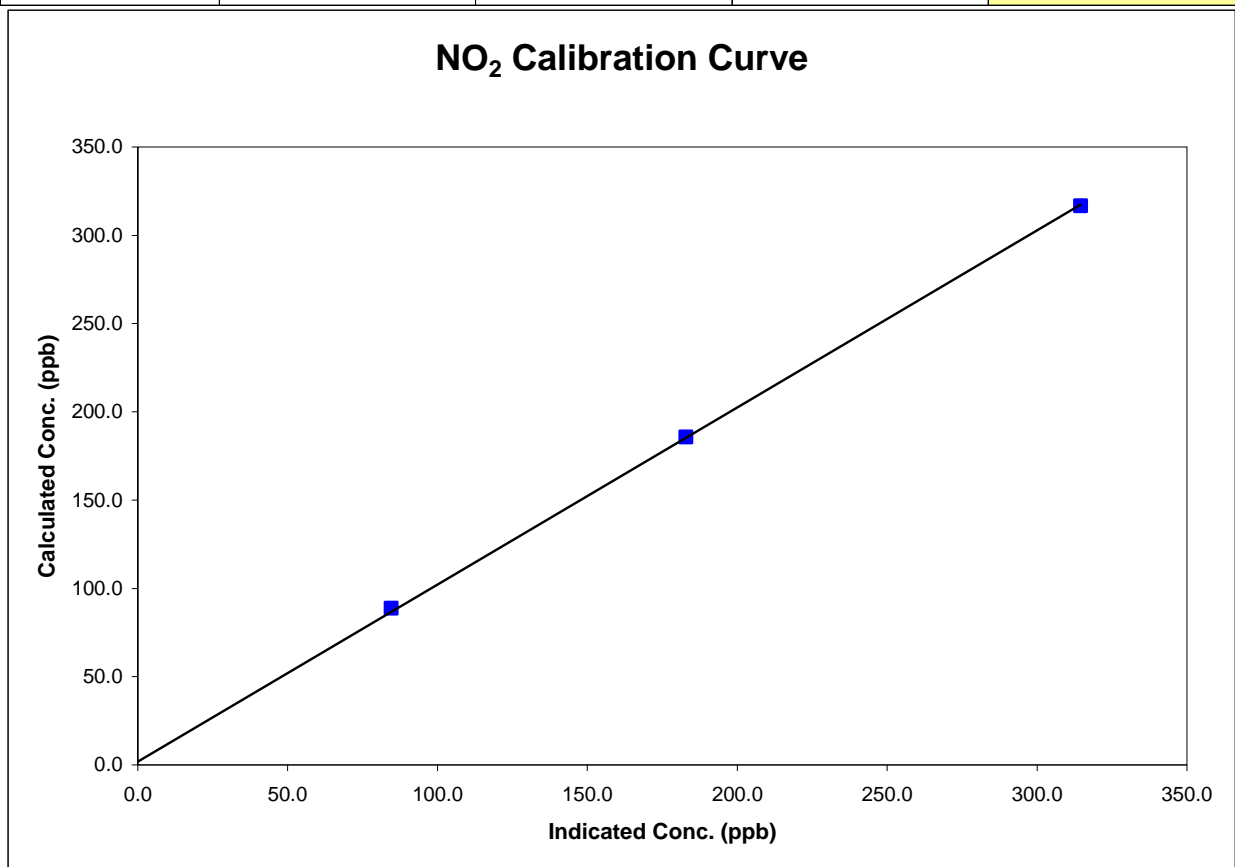


Station Information

Calibration Date	July 13, 2007	Previous Calibration	June 4, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	11:03	End Time (MST)	14:35
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		
316.8	314.5	1.0071	Correlation Coefficient	0.999876
185.7	182.9	1.0152		
88.7	84.6	1.0487	Slope	1.003345
			Intercept	1.874886



Calibration Summary

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

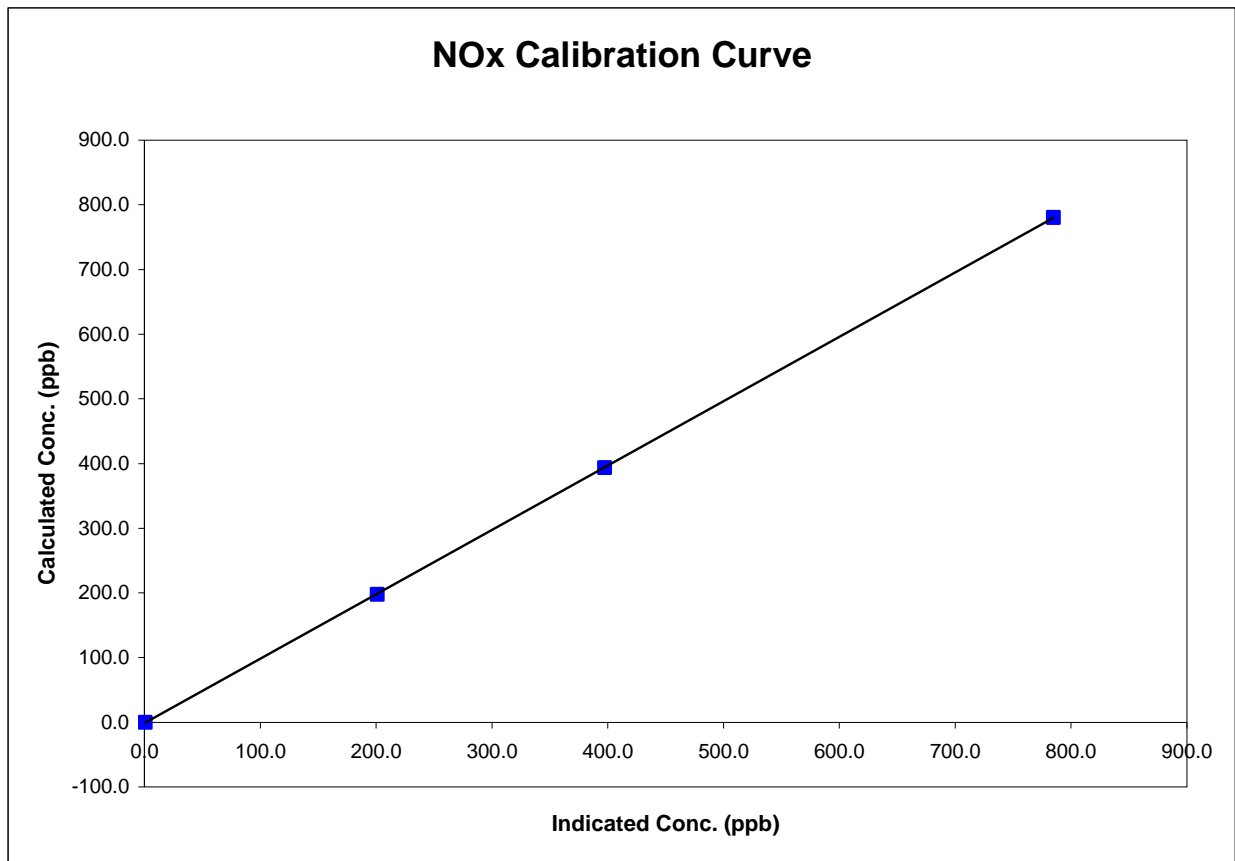


Station Information

Calibration Date	July 13, 2007	Previous Calibration	June 4, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	11:03	End Time (MST)	14:35
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	0.7	0.0000	Correlation Coefficient	0.999995
780.4	785.0	0.9941		
393.8	397.2	0.9913		
197.8	201.1	0.9836		
			Slope	0.995538
			Intercept	-1.470541



Calibration Summary

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

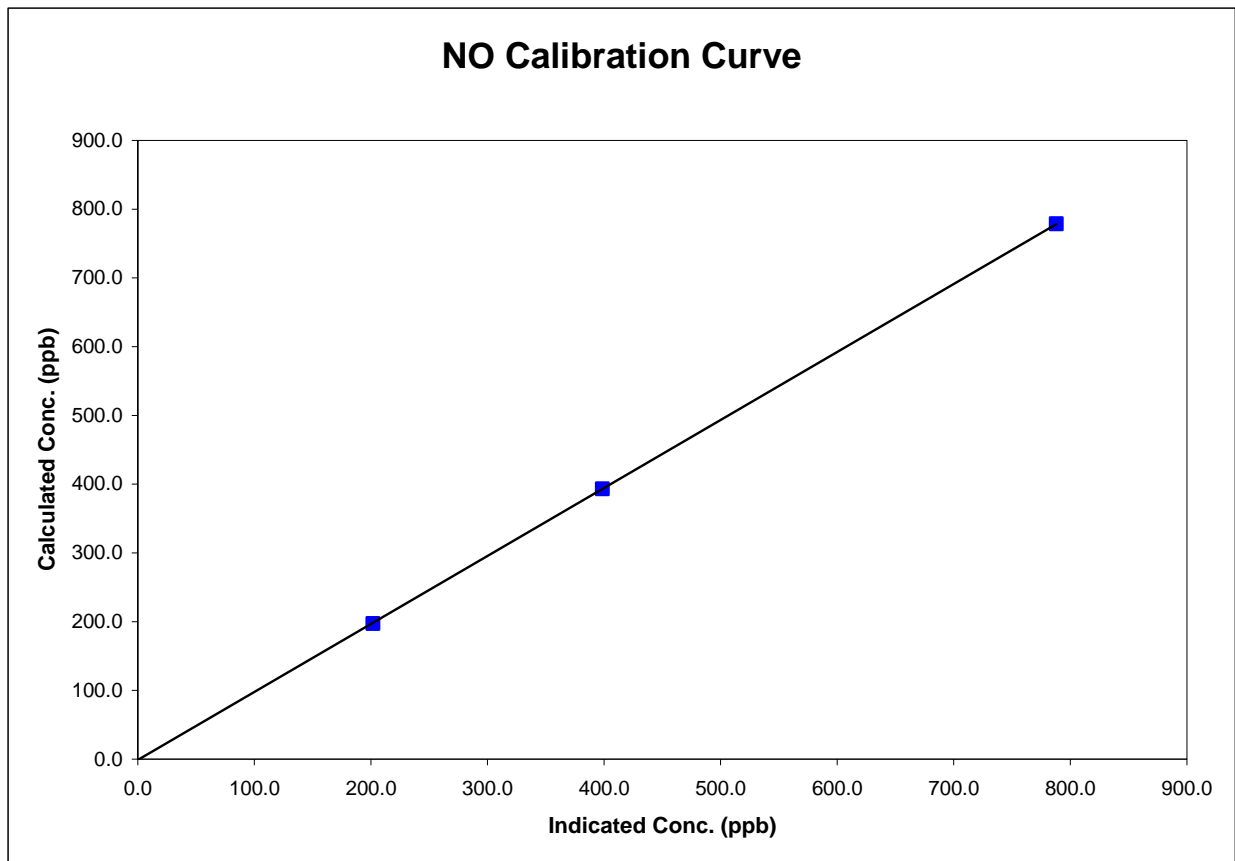


Station Information

Calibration Date	July 13, 2007	Previous Calibration	June 4, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	11:03	End Time (MST)	14:35
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		
778.8	788.1	0.9882	Correlation Coefficient	0.999990
393.0	398.7	0.9855		
197.4	201.8	0.9783		
			Slope	0.988580
			Intercept	-0.821823



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

Calibration Date	July 13, 2007	Previous Calibration	June 5, 2007
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	16:03	End Time (MST)	17:47
Barometric Pressure	0.908 atm	Station Temperature	20.0 Deg C
Calibrator	Enviroics 6103	Serial Number	1633
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 1 volt	DACS channel #	5
	Before		After
Calculated slope	0.996422	Calculated slope	1.004379
Calculated intercept	1.040351	Calculated intercept	2.115824
Analyzer make	Teco 49C	Analyzer serial #	49C-76443-383

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
offset	-0.20	ppb	-0.20	ppb
slope	0.995		0.995	
Lamp temp	71	mV	71	mV
Lamp Intensity A/B	84200/82100	mV	84200/82100	mV
Pressure	581.4	mm Hg	581.4	mm Hg
Flow A	750	ccm	750	ccm
Flow B	705	ccm	705	ccm

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.00	0.0	-0.1	N/A
4992	0.00	316.8	315.1	1.0053
4992	0.00	185.7	180.2	1.0308
4992	0.00	88.7	85.0	1.0434
4992	0.00	0.0	-0.1	As found zero
4992	0.00	316.8	315.1	As found span
Average Correction Factor				1.0265

Calculated value of As Found Response: 315.2 ppm Percent Change of As Found: -0.5%

	before calibration		after calibration	
Auto zero	1.1	ppb	2.1	ppb
Auto span	110.0	ppb	113.9	ppb

Notes: No Adjustments.Calibration Performed By: Dawn Ewan

Calibration Summary

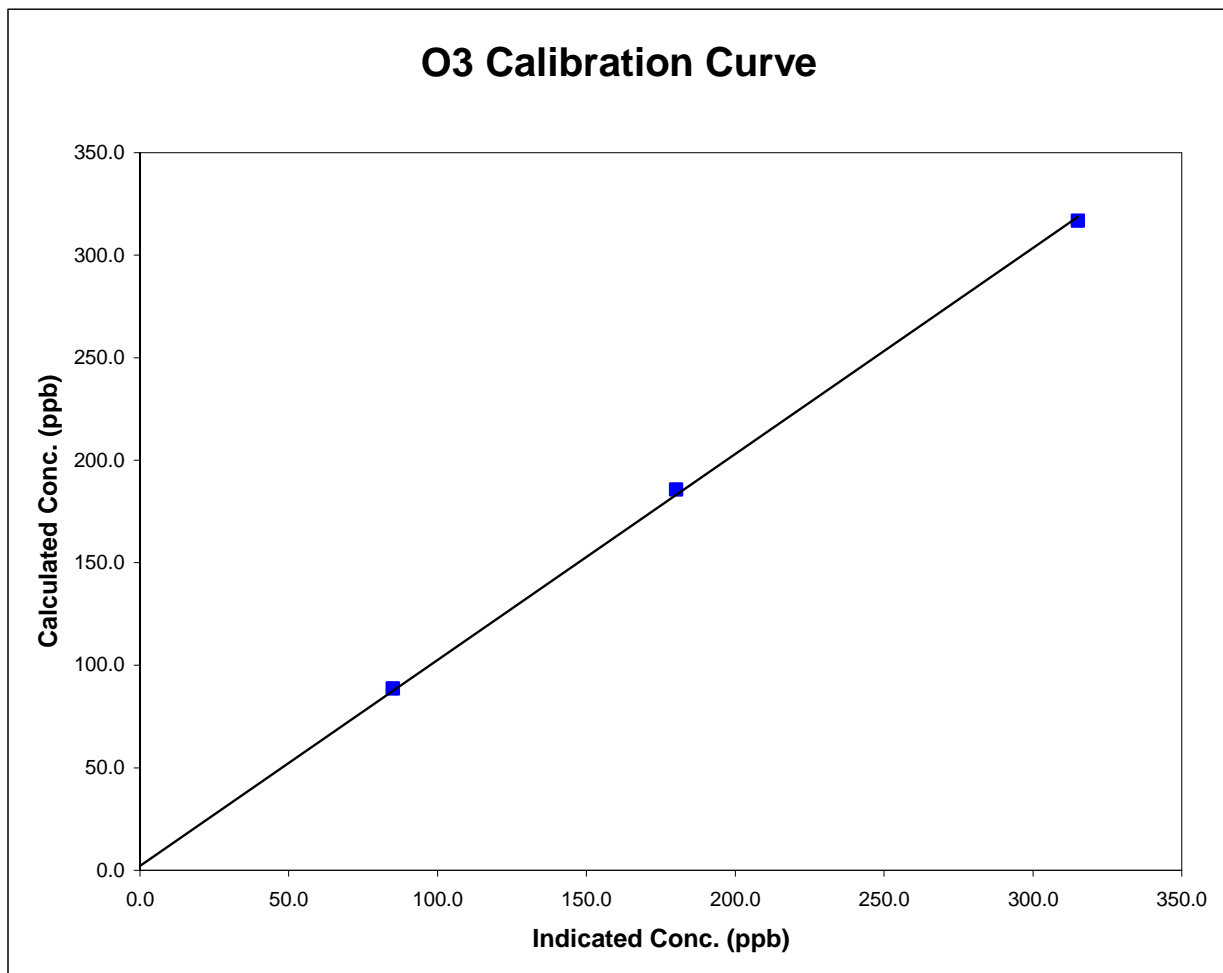
Parameter **O3**Air Monitoring Network **PASZA**

Station Information

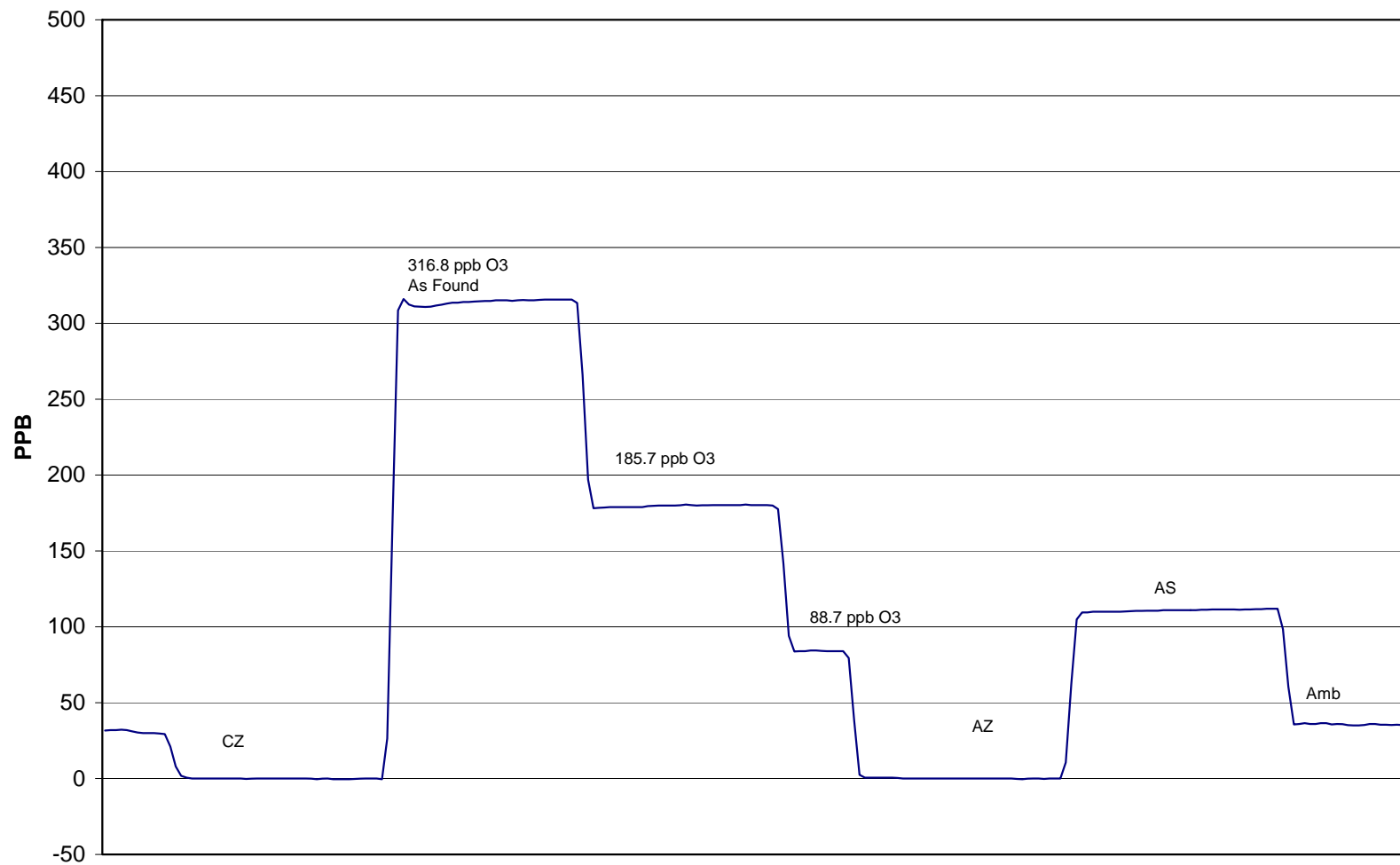
Calibration Date	July 13, 2007	Previous Calibration	June 5, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	16:03	End Time (MST)	17:47
Analyzer make/model	Teco 49C	Analyzer serial #	49C-76443-383

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	NA		
316.8	315.1	1.0053	Correlation Coefficient	0.999714
185.7	180.2	1.0308		
88.7	85.0	1.0434	Slope	1.004379
			Intercept	2.115824



O3 Calibration



July 13, 2007

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

Calibration Date	July 25, 2007	Previous Calibration	June 18, 2007
Station Number	6	Station Location	Portable Falher
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:00	End Time (MST)	13:14
Barometric Pressure	28.05 inches Hg	Station Temperature	29.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	49.6 ppm	Cal Gas Expiry Date	12/5/2007
Gas Cert Reference	BAL786		
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.981359	Calculated slope	1.020692
Calculated intercept	8.147592	Calculated intercept	0.219517
Analyzer make	TEI 43C APS1AB	Analyzer serial #	609716238

	before		after	
Concentration range	0-500	ppb	0-500	ppb
Background	8		8.1	
Coefficient	1.137		1.137	
UV Lamp Voltage	742	LPM	739	LPM
Chamber Temp	44.3	V	44.4	V
Perm Gas Temp	45	C	45	C
Pressure	695.2	in Hg	680	in Hg
Sample Flow	0.498	LPM	0.49	LPM
Lamp Intesity	34500	Hz	33792	Hz

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.00	0.0	-0.1	N/A
4992	39.94	393.7	385.5	1.0211
4992	19.96	197.6	193.3	1.0221
4992	9.98	99.0	96.7	1.0238
4992	0.00	0.0	-0.1	As found zero
4992	39.94	393.7	385.5	As found span
Average Correction Factor				1.0223

Calculated value of As Found Response: 386.602 ppm Percent Change of As Found: 1.8%

	before calibration		after calibration	
Auto zero	4.7	ppm	0.0	ppm
Auto span	35.0	ppm	295.8	ppm

Notes:

Calibration Performed By: Lenin Flores, Conor Whiteley

Calibration Summary

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

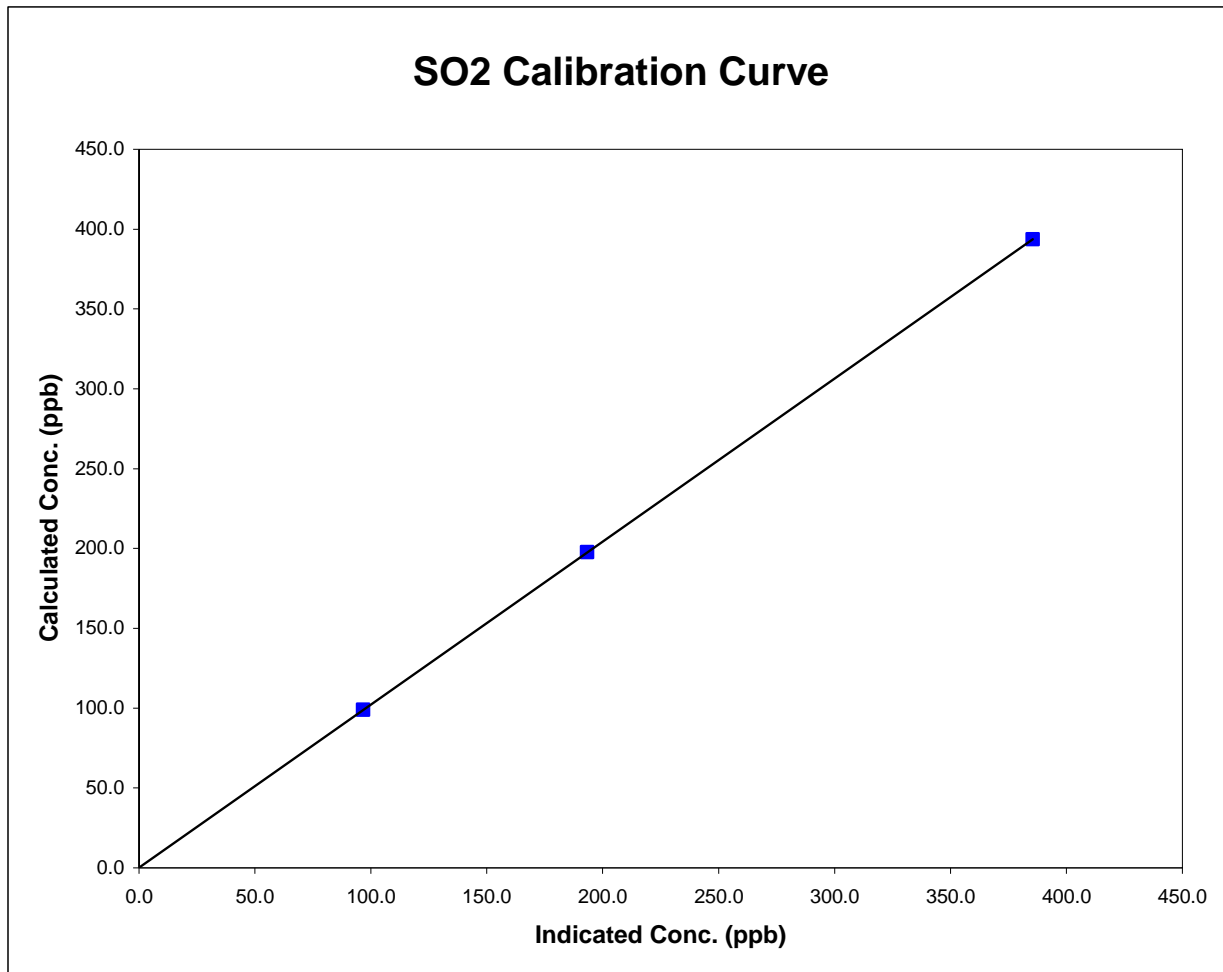


Station Information

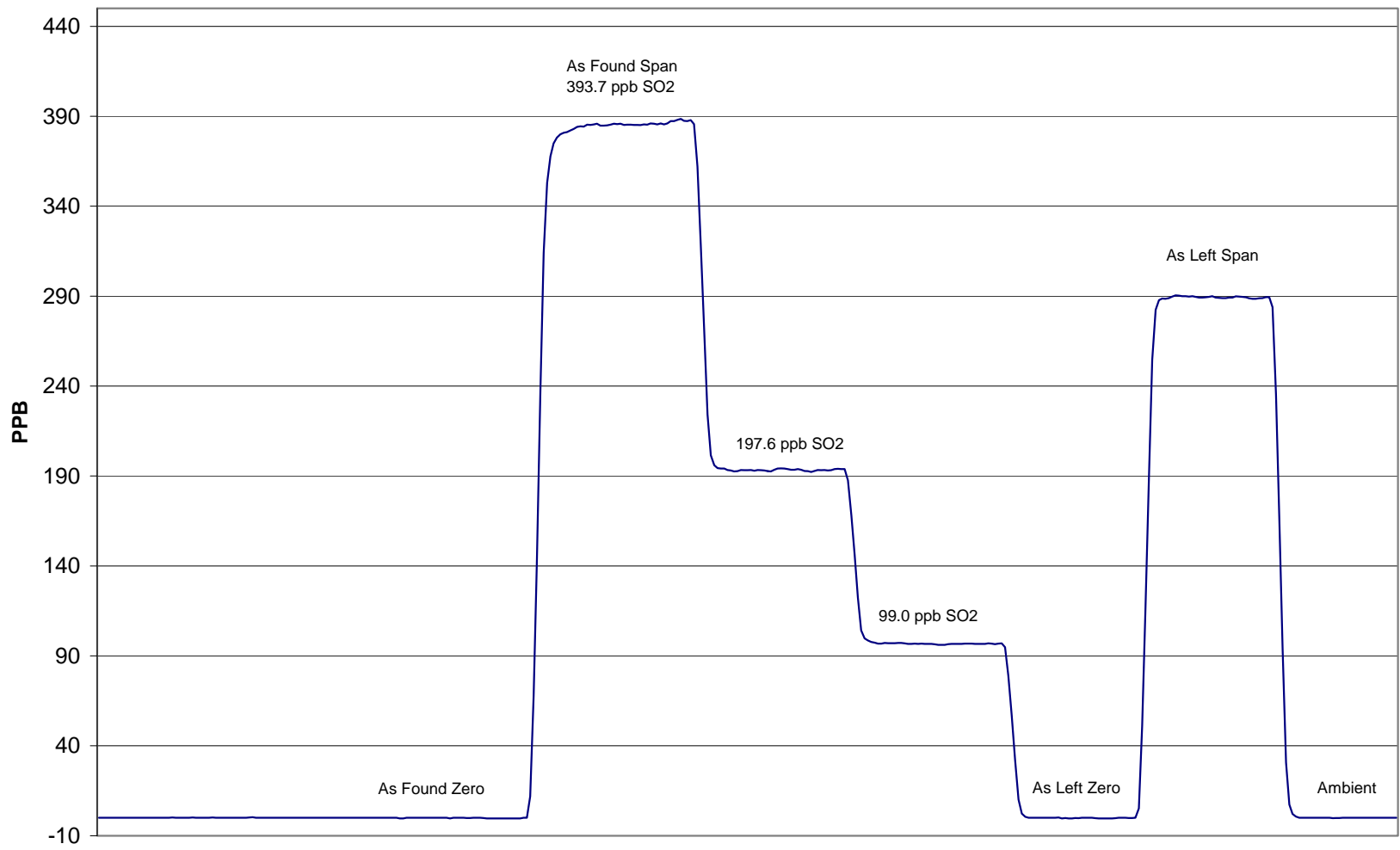
Calibration Date	July 25, 2007	Previous Calibration	June 18, 2007
Station Number	6	Station Location	Portable Falher
Start Time (MST)	10:00	End Time (MST)	13:14
Analyzer make/model	TEI 43C APS1AB	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A		
393.7	385.5	1.0211	Correlation Coefficient	1.000000
197.6	193.3	1.0221		
99.0	96.7	1.0238	Slope	1.020692
			Intercept	0.219517



SO2 Calibration



July 25, 2007

Calibration Report

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

Station Information

Calibration Date	July 25, 2006	Previous Calibration	June 18, 2006
Station Number	6	Station Location	Portable Falher
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	14:29	End Time (MST)	17:42
Barometric Pressure	28.1 inches Hg	Station Temperature	21.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	5.02 ppm	Cal Gas Expiry Date	11/15/2005
Gas Cert Reference	0080520	Cylinder #	BLM003489
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 5 volt	DACS channel #	8
	Before		After
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.994414	Calculated slope	0.996939
Calculated intercept	2.344321	Calculated intercept	0.138385
Analyzer make	TEI 43C MOD	Analyzer serial #	609716238

	before		after	
Concentration range	0-100	ppb	0-100	ppb
Background	10.3	ppb	8.7	ppb
Coefficient	1.799		1.496	
Lamp Voltage	802	V	801	V
Chamber Temp	43.8	C	43.9	C
Perm gas Temp	45	C	45	C
Pressure	679.1	mmHg	663.9	mmHg
Sample Flow	444	ccm	437	ccm
Lamp Intensity	39400	Hz	38756	Hz

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.0	0.0	0.2	N/A
4992	79.86	79.0	79.3	0.9970
4992	39.95	39.9	39.6	1.0058
4992	9.95	10.0	9.7	1.0348
4992	0.00	0.0	0.1	As found zero
4992	79.86	79.0	93.2	As found span
Average Correction Factor				1.0125

Calculated value of As Found Response: 94.89 ppm Percent Change of As Found: -20.0%

	before calibration		after calibration	
Auto zero	1.1	ppm	-0.2	ppm
Auto span	85.4	ppm	75.3	ppm

Notes:

Calibration Performed By: Lenin Flores, Conor Whiteley

Calibration Summary

Parameter **TRS**

Air Monitoring Network **PASZA**

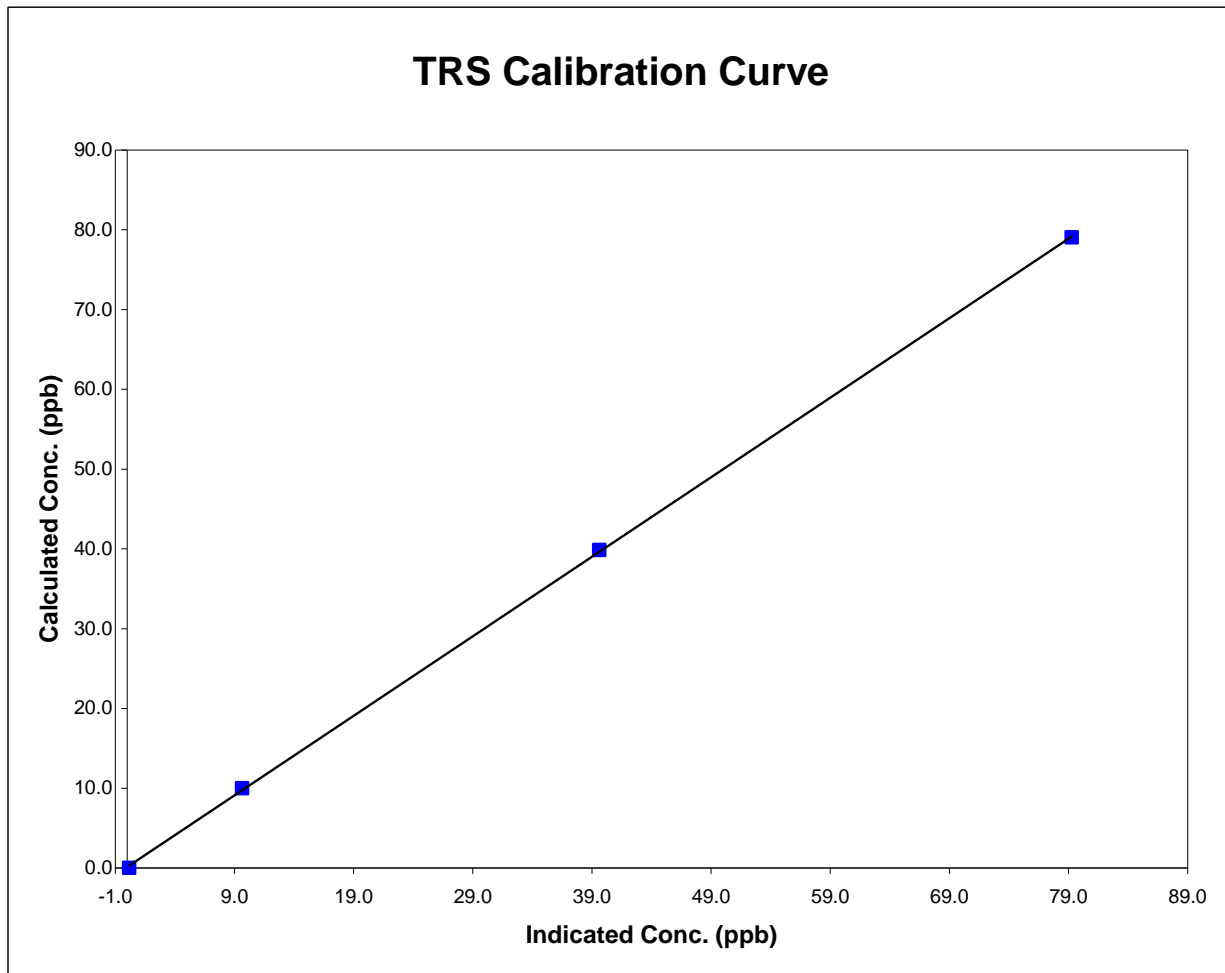


Station Information

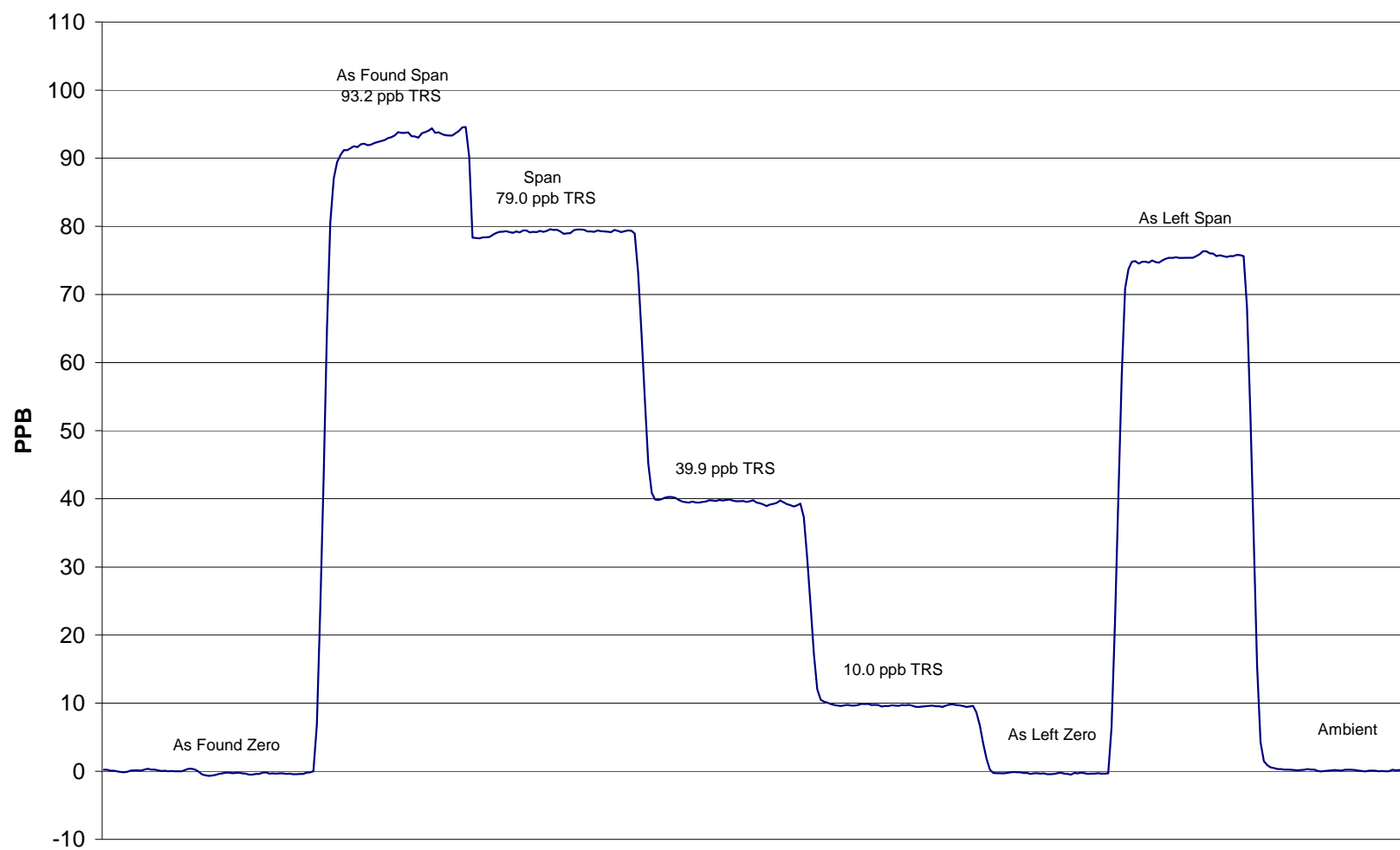
Calibration Date	July 25, 2006	Previous Calibration	June 18, 2006
Station Number	6	Station Location	Portable Falher
Start Time (MST)	14:29	End Time (MST)	17:42
Analyzer make/model	TEI 43C MOD	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	N/A		
79.0	79.3	0.9970	Correlation Coefficient	0.999945
39.9	39.6	1.0058		
10.0	9.7	1.0348	Slope	0.996939
			Intercept	0.138385



TRS Calibration



July 25, 2006

Calibration Report



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

Station Information

Calibration Date	July 25, 2007	Previous Calibration	June 18, 2007
Station Number	6	Station Location	Portable Falher
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	16:30	End Time (MST)	19:10
Barometric Pressure	0.937 atm	Station Temperature	21.0 Deg C
Calibrator	Enviroics 6100	Serial Number	3474
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0-5	DACS channel #	7
	Before		After
Calculated slope	0.991835	Calculated slope	1.048668
Calculated intercept	6.255458	Calculated intercept	0.373573
Analyzer make	TEI Model 49C	Analyzer serial #	609-716240

	before		after	
Concentration range	0-500	ppb	0-500	ppb
Offset	0.2	ppb	0.2	ppb
Span	1.022		1.022	
Cell A	81360	Hz	81360	Hz
Cell B	80,638	Hz	80,638	Hz
Pressure	688	in Hg	688	in Hg
CellA Flow	667	ccm	667	ccm
Cell B Flow	669	cmm	669	cmm

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.00	0.0	-0.1	N/A
4992	0.00	300.0	283.7	1.0574
4992	0.00	193.2	188.0	1.0275
4992	0.00	95.2	88.0	1.0818
4992	0.00	0.0	-0.1	As found zero
4992	0.00	300.0	283.7	As found span
Average Correction Factor				1.0556

Calculated value of As Found Response: 287.7 ppm Percent Change of As Found: -4.1%

	before calibration		after calibration	
Auto zero	-1.6	ppb	-0.4	ppb
Auto span	47.1	ppb	325.0	ppb

Notes: Used numbers from previous month's calibrations, although the high point was 350 and we used 300

Calibration Performed By: Lenin Flores, Conor Whiteley

Calibration Summary

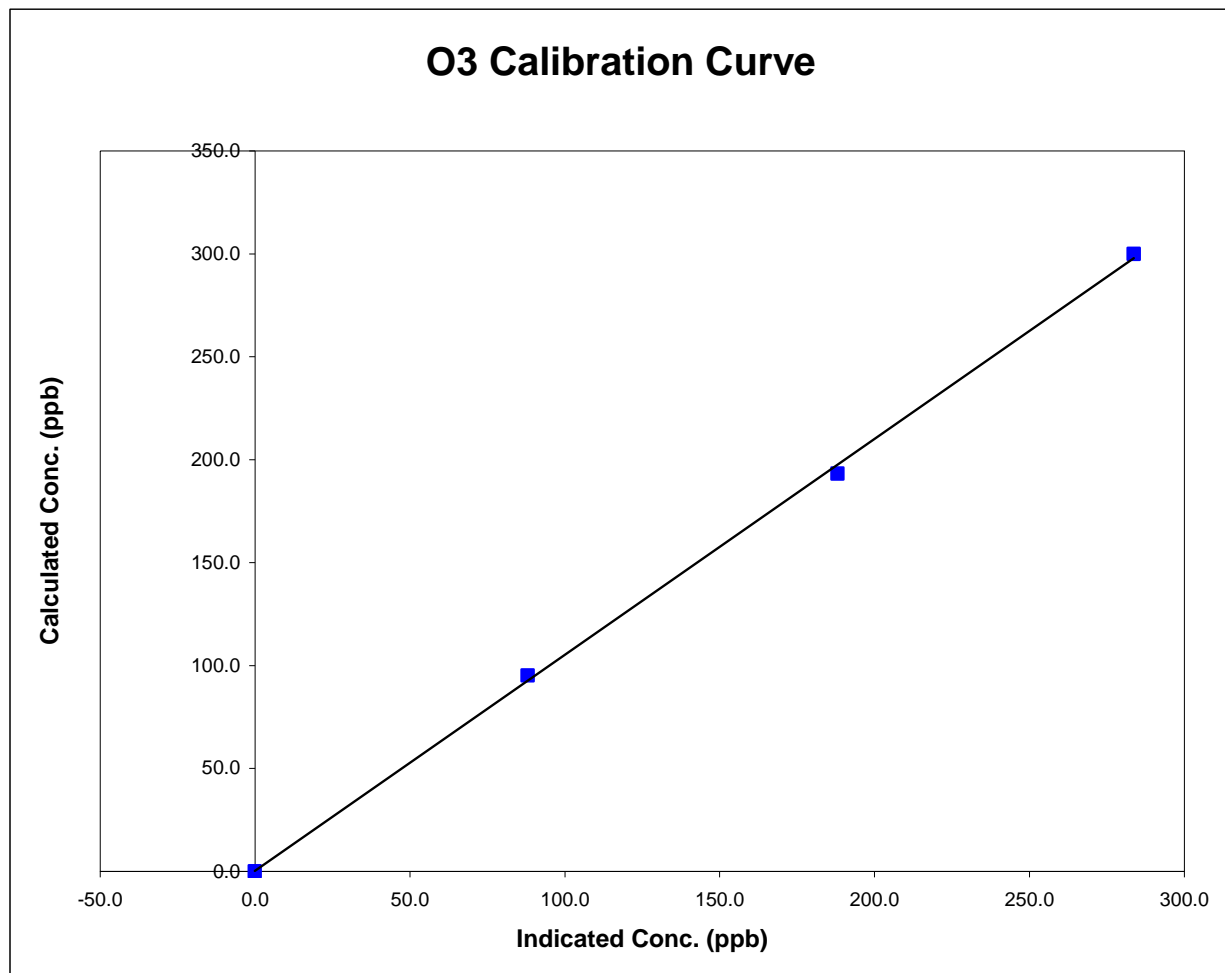
Parameter **O3**Air Monitoring Network **PASZA**

Station Information

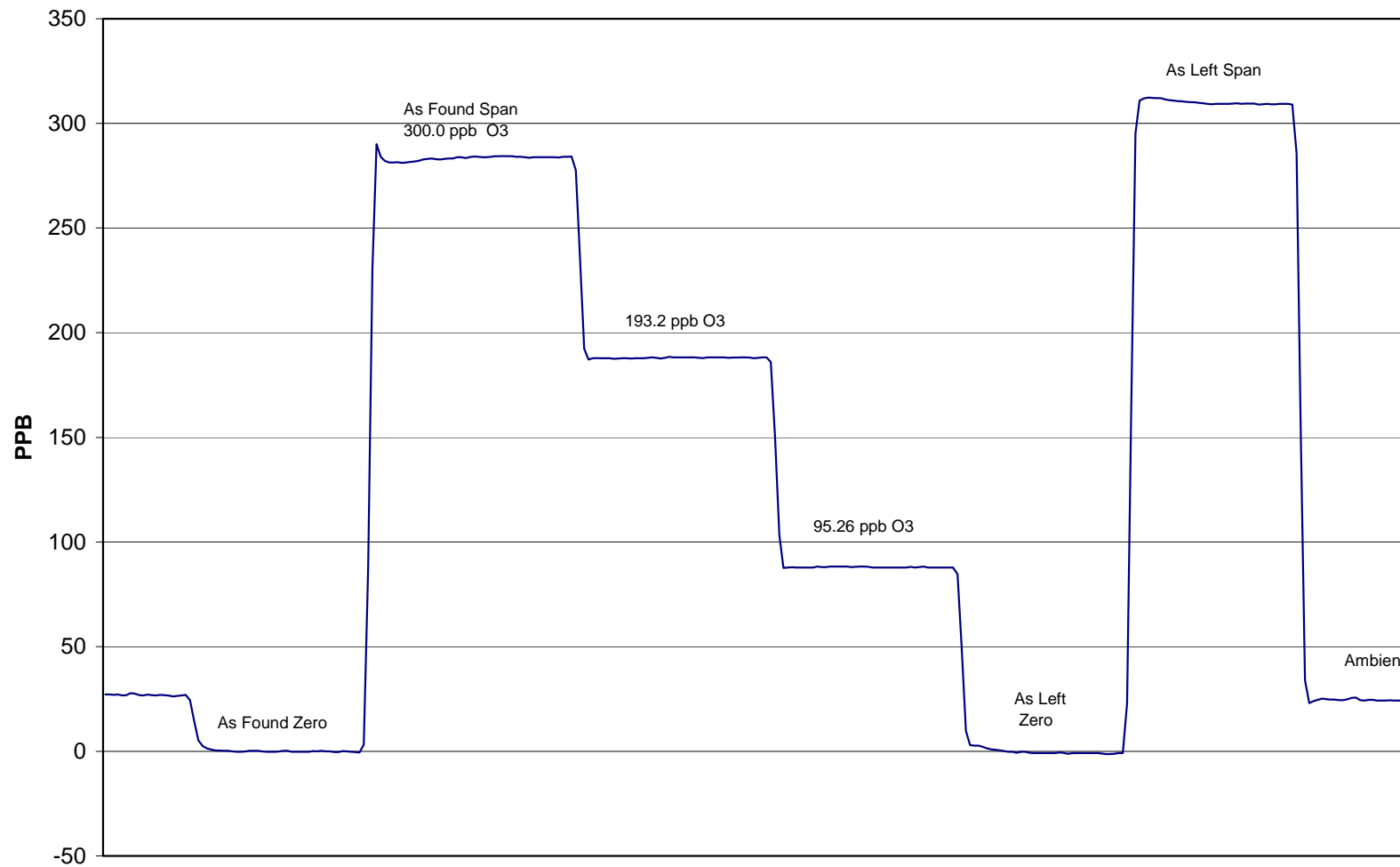
Calibration Date	July 25, 2007	Previous Calibration	June 18, 2007
Station Number	6	Station Location	Portable Falher
Start Time (MST)	16:30	End Time (MST)	19:10
Analyzer make/model	TEI Model 49C	Analyzer serial #	609-716240

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	NA		
300.0	283.7	1.0574	Correlation Coefficient	0.999400
193.2	188.0	1.0275		
95.2	88.0	1.0818	Slope	1.048668
			Intercept	0.373573



O3 Calibration



July 25, 2007

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA**Station Information**

Calibration Date	July 25, 2006	Previous Calibration	June 18, 2007
Station Number	6	Station Location	Portable Falher
Reason:	Routine	Installation	Removal
Other:			
Start Time (MST)	10:00	End Time (MST)	15:37
Barometric Pressure	0.937 Atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2844
NO Cal Gas Conc	49.5 ppm	Cal Gas Expiry Date	Jan 02 2009
NOx Cal Gas Conc	49.6 ppm	Cal Gas Serial #	FF-5013

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	52662
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Parameter		NO2	NOx	NO
Before	Data Slope	0.996721	1.000107	1.000921
	Data Offset	-1.394613	-3.692769	-3.317014
After	Data Slope	0.972485	0.980694	0.977954
	Data Offset	-0.552326	-1.201731	-0.189929
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model	API Model 200E	Analyzer serial #	219
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Test Point	before		after	
Concentration range	0-1000	ppb	0-1000	ppb
NO background	4.6	ppb	4.6	mV
NOx background	4.8	ppb	4.8	mV
NO coefficient	0.643		0.643	
NOx coefficient	1.013		1.013	
Chamber Temp	50.0	Deg C	50.3	Deg C
Cooler Temp	-3.1	Deg C	-2.9	Deg C
NO2 Converter Temp	325.0	Deg C	324.2	Deg C
Sample Flow	702.0	ccm	701.0	ccm
Ozonator Flow	0.087	LPM	0.087	LPM
Pressure	210.0	mm Hg	157.2	mm Hg

Notes: GPT numbers not what's expected. This is a calibrator issue we believe...
No adjustments were made...

Calibration Performed By: Lenin Flores, Conor Whiteley

Calibration Report



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

Station Information

Calibration Date: **July 25, 2006** Station Location: **Portable Falher**

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor
zero	4992	0.00	0.0	0.0	0.0	0.2	0.2	0.2	N/A	N/A
1	4992	39.94	393.7	392.9	0.8	402.1	402.1	402.1	0.9790	0.9771
2	4992	19.96	197.6	197.2	0.4	203.2	201.2	3.5	0.9722	0.9797
3	4992	9.98	99.0	98.8	0.2	103.3	101.6	2.2	0.9588	0.9721
AFZ	4992	0.00	0.0	0.0	0.0	0.2	-0.5	0.8	0.0000	0.0000
AFS	4992	39.94	393.7	392.9	0.8	402.1	397.3	6.5	0.9790	0.9888
Average Correction Factor									0.9700	0.9763

As Found Concentrations: NO_x= 398.2 NO= 394.5 As Found Percent Change NO_x= 1.2% NO= 0.4%

GPT Calibration Data

Dilution Flow 4992 ccm Source Gas Flow 39.94 ccm

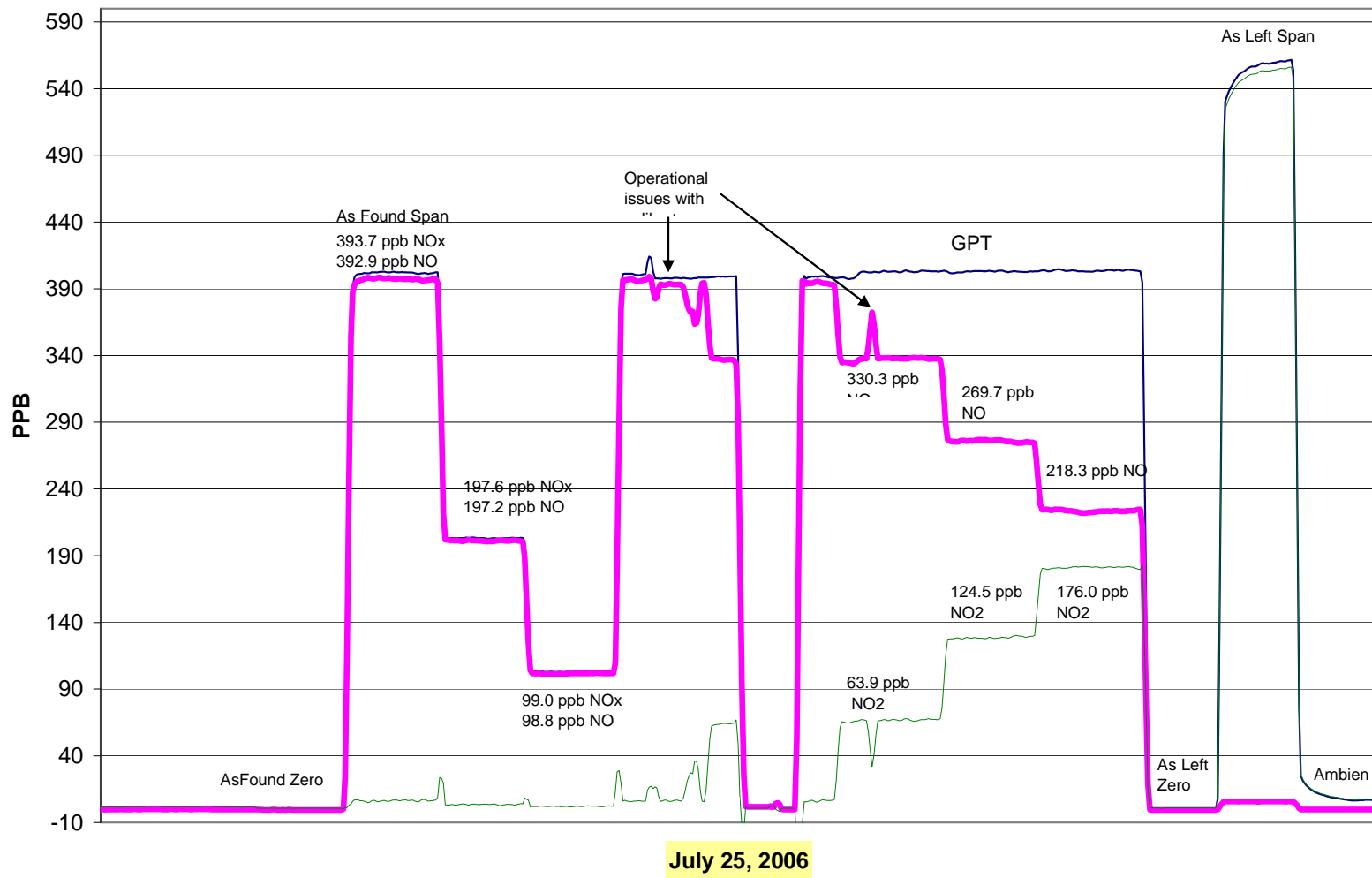
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	394.2	385.5	8.8	399.0	394.4	6.3	0.9881	0.9775	N/A	N/A
300	394.2	330.3	63.9	403.0	337.9	67.0	0.9781	0.9774	0.9547	104.7%
200	394.2	269.7	124.5	402.9	276.0	128.6	0.9784	0.9773	0.9684	103.3%
100	394.2	218.3	176.0	403.7	223.4	181.3	0.9766	0.9771	0.9706	103.0%
Average Correction Factor							0.9777	0.9773	0.9646	103.7%

AIC Data

Parameter	Previous calibration				Current calibration			
	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	1.2	0.7	0.8	ppb	0.0	-0.5	2.8	ppb
Auto span	342.0	20.9	320.1	ppb	546.1	536.8	5.5	ppb

Calibration Performed By: Lenin Flores, Conor Whiteley

NOx Calibration



Calibration Summary

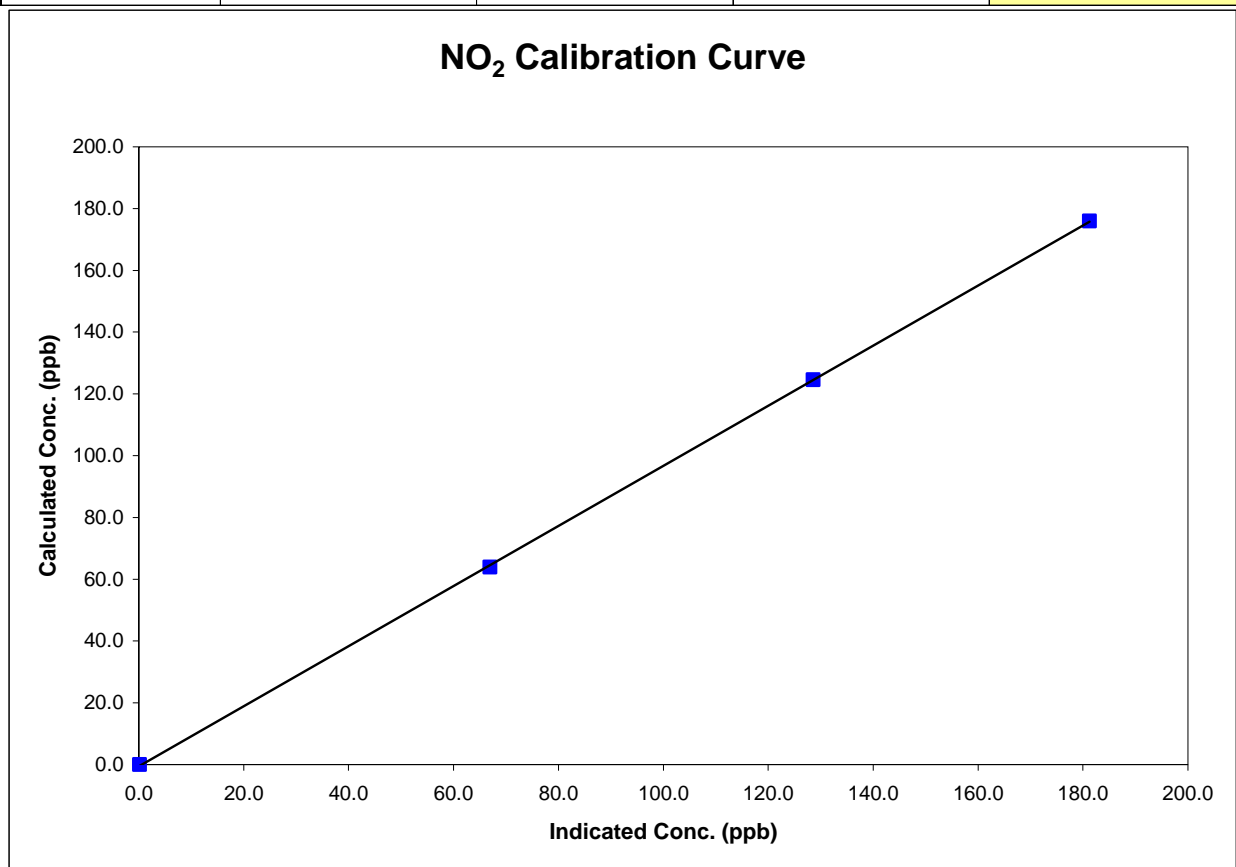
Parameter **NO₂**Air Monitoring Network **PASZA**

Station Information

Calibration Date	July 25, 2006	Previous Calibration	June 18, 2007
Station Number	6	Station Location	Portable Falher
Start Time (MST)	10:00	End Time (MST)	15:37
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	0.0000	Correlation Coefficient	0.999965
63.9	67.0	0.9547		
124.5	128.6	0.9684		
176.0	181.3	0.9706		
			Slope	0.972485
			Intercept	-0.552326



Calibration Summary

Parameter **NO_x**

Air Monitoring Network **PASZA**

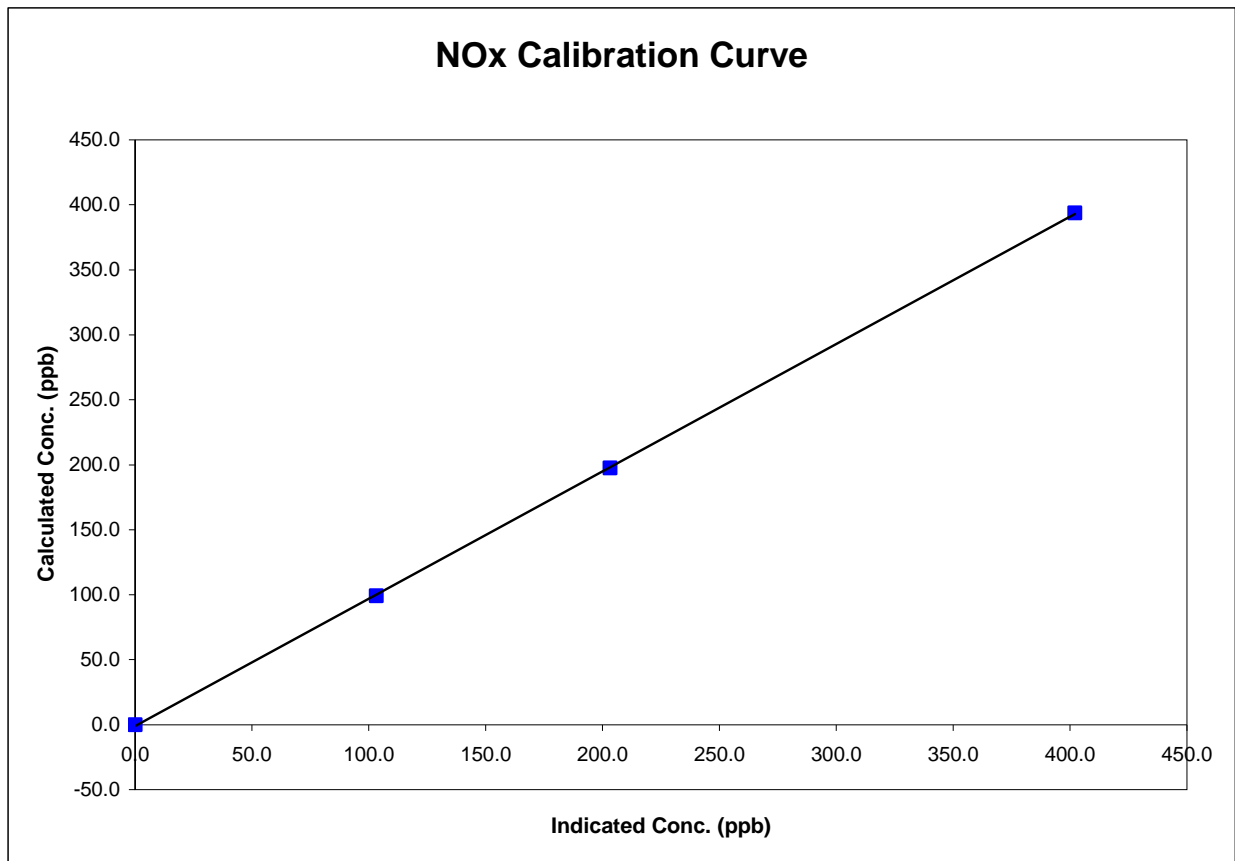


Station Information

Calibration Date	July 25, 2006	Previous Calibration	June 18, 2007
Station Number	6	Station Location	Portable Falher
Start Time (MST)	10:00	End Time (MST)	15:37
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	0.0000	Correlation Coefficient	0.999967
393.7	402.1	0.9790		
197.6	203.2	0.9722		
99.0	103.3	0.9588		
			Slope	0.980694
			Intercept	-1.201731



Calibration Summary

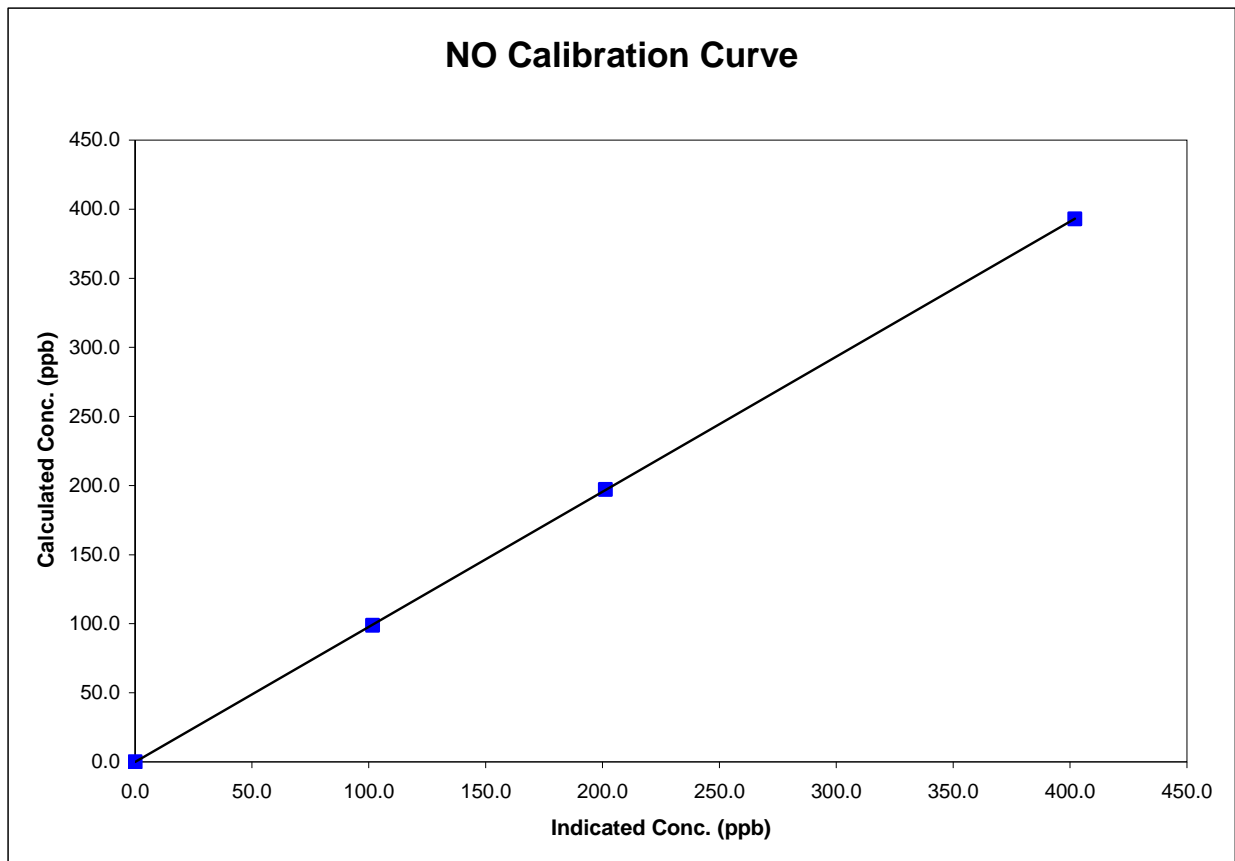
Parameter **NO**Air Monitoring Network **PASZA**

Station Information

Calibration Date	July 25, 2006	Previous Calibration	June 18, 2007
Station Number	6	Station Location	Portable Falher
Start Time (MST)	10:00	End Time (MST)	15:37
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	N/A		
392.9	402.1	0.9771	Correlation Coefficient	0.999994
197.2	201.2	0.9797		
98.8	101.6	0.9721		
			Slope	0.977954
			Intercept	-0.189929



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

Calibration Date	July 26, 2007	Previous Calibration	June 20, 2007
Station Number	6	Station Location	Valleyview
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:00	End Time (MST)	13:14
Barometric Pressure	27.75 inches Hg	Station Temperature	29.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	49.6 ppm	Cal Gas Expiry Date	12/5/2007
Gas Cert Reference	BAL786		
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	<u>Before</u>		<u>After</u>
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.000865	Calculated slope	1.002309
Calculated intercept	2.690786	Calculated intercept	-2.952907
Analyzer make	TEI 43i	Analyzer serial #	43C-57351-313

	before		after	
Concentration range	0-1000	ppb	0-1000	ppb
Background	29.8		29.1	
Coefficient	0.772		0.778	
UV Lamp Voltage	693	LPM	691	LPM
Chamber Temp	44.4	V	44.4	V
Perm Gas Temp	45	C	30?	C
Pressure	645.1	in Hg	626.1	in Hg
Sample Flow	0.473	LPM	0.468	LPM
Lamp Intesity	45600	Hz	45370	Hz

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4993	0.00	0.0	-0.5	N/A
4993	39.94	393.6	393.3	1.0007
4993	19.96	197.5	203.1	0.9725
4992	9.99	99.1	104.5	0.9483
4992	0.00	0.0	-0.5	As found zero
4992	39.94	393.7	377.7	As found span
Average Correction Factor				0.9738

Calculated value of As Found Response: 381.269 ppm Percent Change of As Found: 3.1%

	before calibration		after calibration	
Auto zero	1.4	ppm	-3.6	ppm
Auto span	976.9	ppm	991.4	ppm

Notes: Adjusted SpanCalibration Performed By: Lenin Flores, Conor Whiteley

Calibration Summary

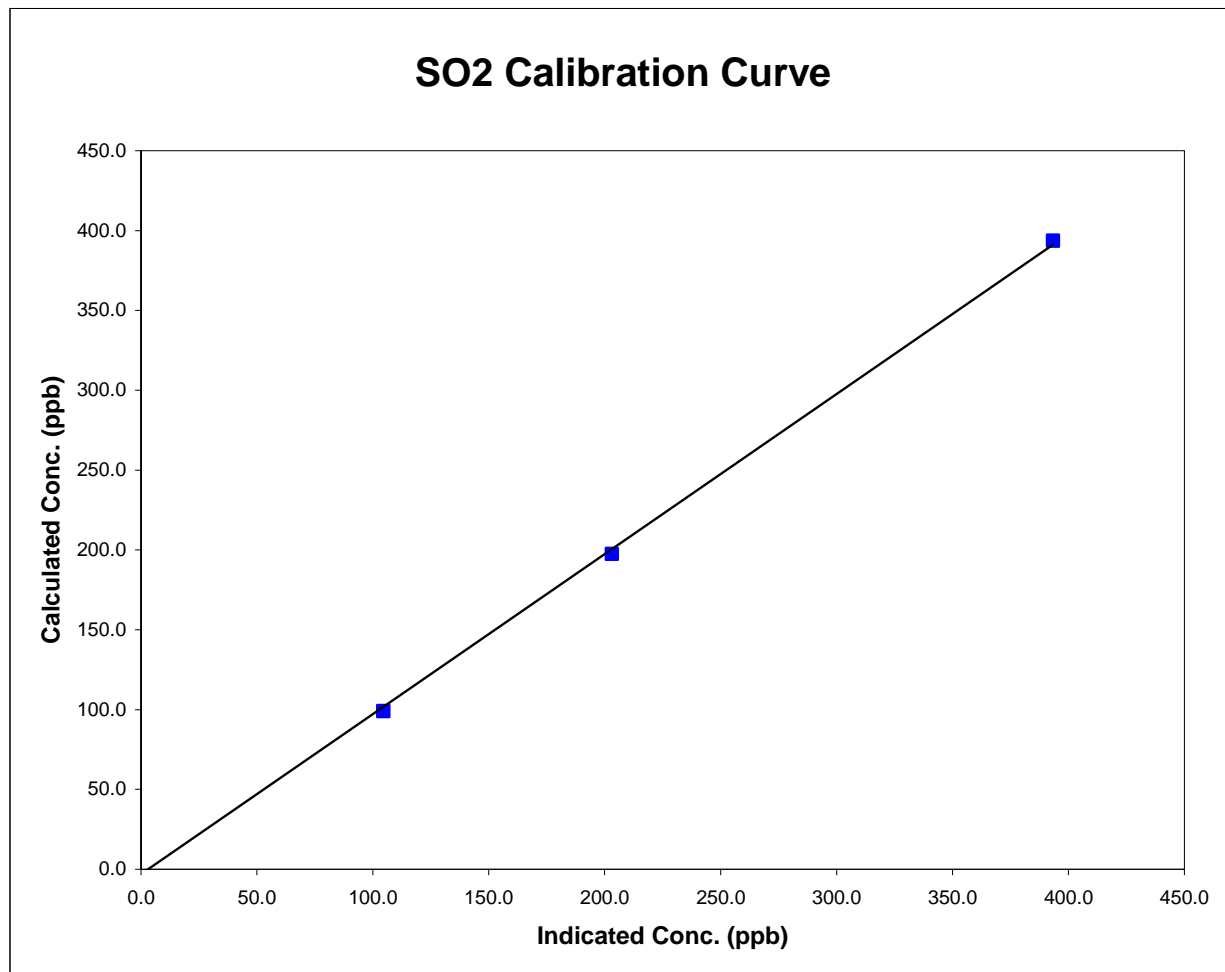
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

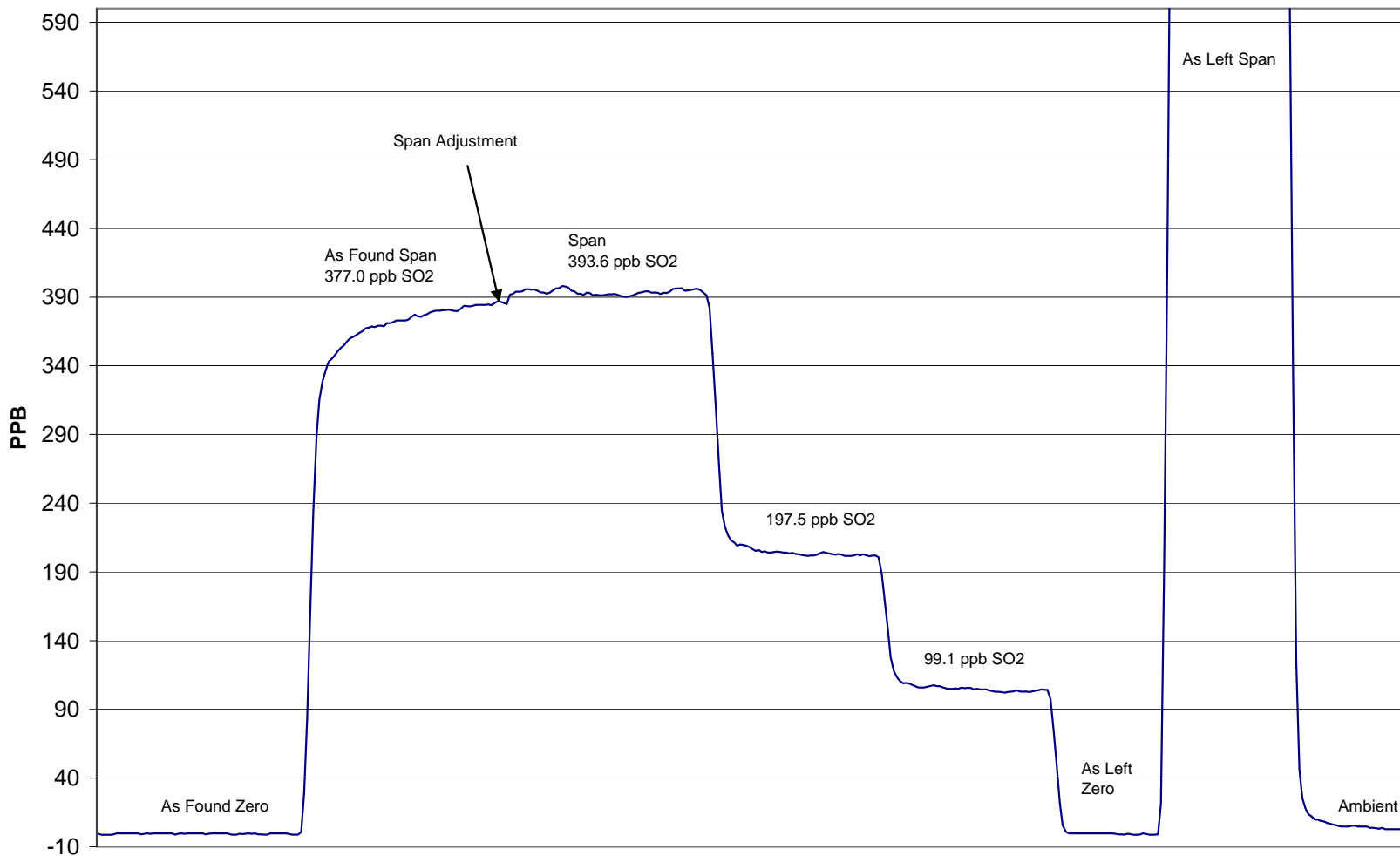
Calibration Date	July 26, 2007	Previous Calibration	June 20, 2007
Station Number	6	Station Location	Valleyview
Start Time (MST)	10:00	End Time (MST)	13:14
Analyzer make/model	TEI 43i	Analyzer serial #	43C-57351-313

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.5	N/A		
393.6	393.3	1.0007	Correlation Coefficient	0.999595
197.5	203.1	0.9725		
99.1	104.5	0.9483	Slope	1.002309
			Intercept	-2.952907



SO2 Calibration



July 26, 2007

Calibration ReportParameter **H2S**Air Monitoring Network **PASZA****Station Information**

Calibration Date	July 26, 2007	Previous Calibration	June 20, 2007
Station Number	5	Station Location	Valleyview
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="text"/>
Start Time (MST)	11:30	End Time (MST)	14:03
Barometric Pressure	27.8 inches Hg	Station Temperature	20.0 Deg C
Calibrator	Enviroics 6100	Serial Number	3474
Cal Gas Concentration	5.1 ppm	Cal Gas Expiry Date	11/29/2006
Gas Cert Reference	BLM003489		
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.940100	Calculated slope	0.997227
Calculated intercept	0.654016	Calculated intercept	0.236935
Analyzer make	TEI Model 43A	Analyzer serial #	43A-25575-221

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Back Ground	6.1	ppb	4.8	ppb
Coefficient	1.374		1.055	
Lamp Voltage	812	v	811	v
Chamber Temp	45	c	45	c
Perm Oven Temp	45	c	45	c
Pressure	658	mm Hg	639	mm Hg
Sample Flow	442	ccm	428	ccm
Lamp Intensity	92.0	%	91.0	%

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4993	0.00	0.0	-0.2	N/A
4993	69.88	70.4	70.3	1.0011
4992	39.90	40.4	40.4	1.0012
4992	9.89	10.1	9.8	1.0252
4992	0.00	0.0	-0.2	As found zero
4992	69.88	70.4	91.0	As found span
Average Correction Factor				1.0092

Calculated value of As Found Response: 86.42 ppm Percent Change of As Found: -22.7%

	before calibration		after calibration	
Auto zero	0.6	ppm	0.1	ppm
Auto span	81.4	ppm	66.4	ppm

Notes: Span adjusted...Calibration Performed By: Lenin Flores, Conor Whiteley

Calibration Summary

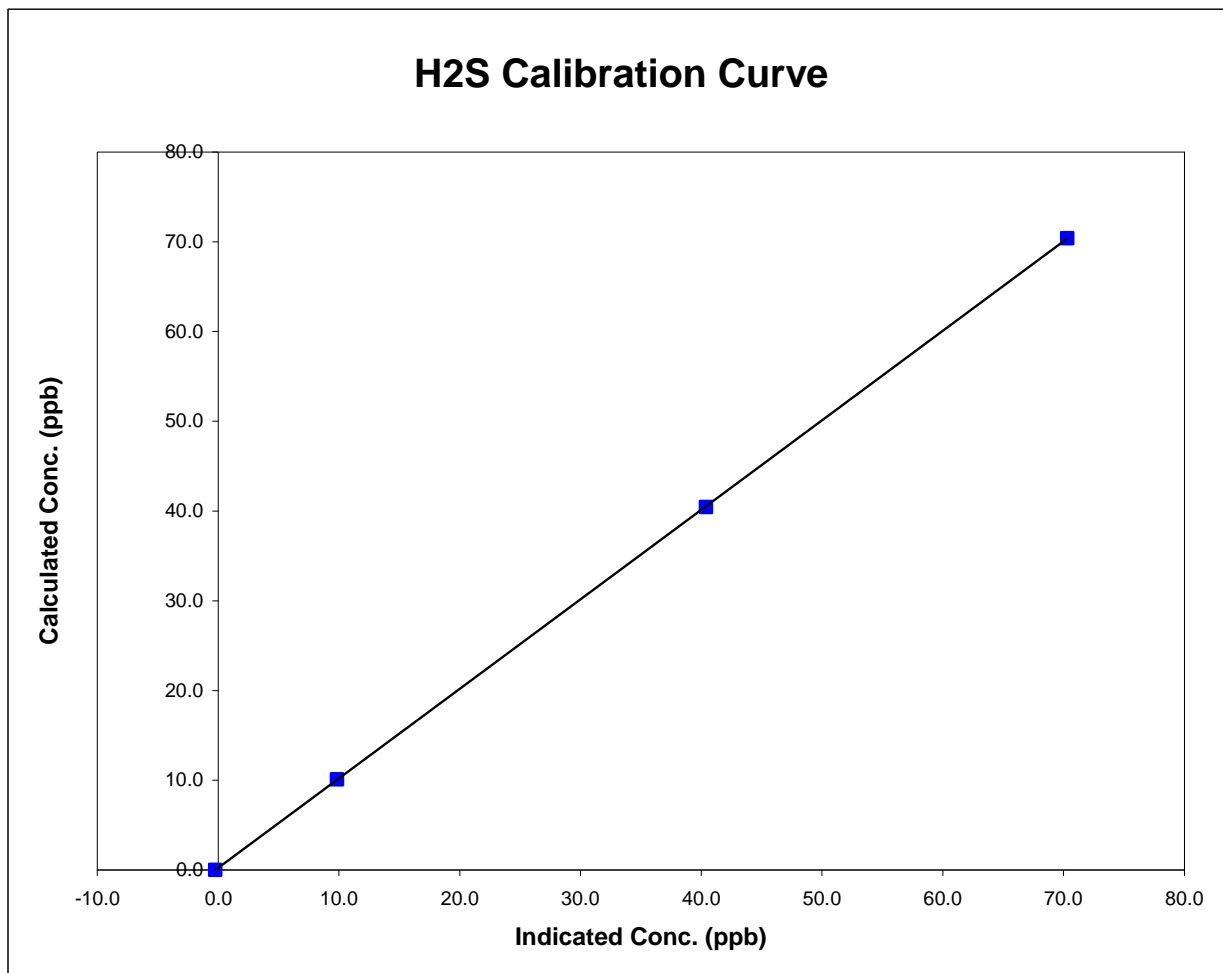
Parameter **H2S**Air Monitoring Network **PASZA**

Station Information

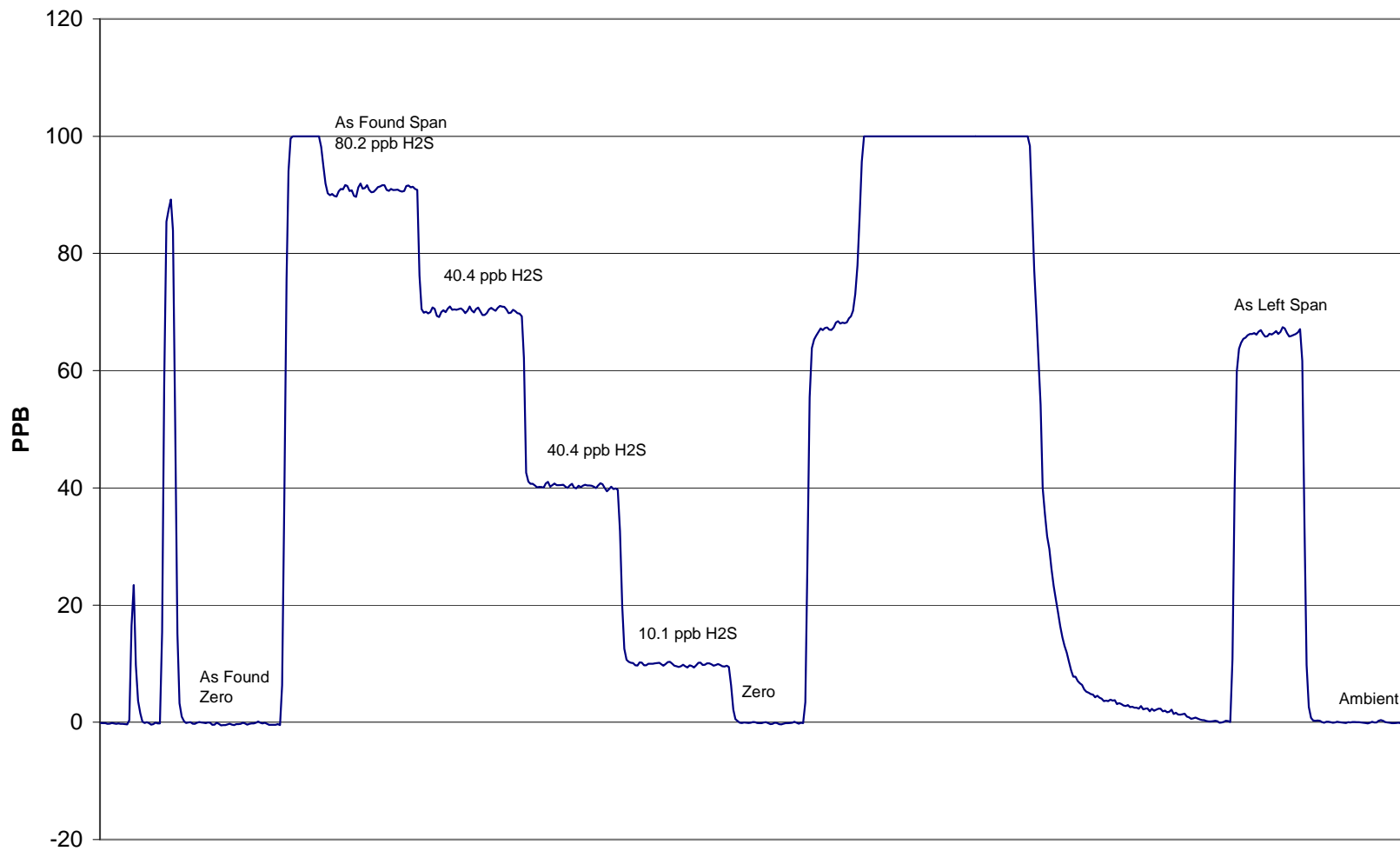
Calibration Date	July 26, 2007	Previous Calibration	June 20, 2007
Station Number	5	Station Location	Valleyview
Start Time (MST)	11:30	End Time (MST)	14:03
Analyzer make/model	TEI Model 43A	Analyzer serial #	43A-25575-221

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.2	N/A		
70.4	70.3	1.0011	Correlation Coefficient	0.999997
40.4	40.4	1.0012		
10.1	9.8	1.0252	Slope	0.997227
			Intercept	0.236935



H2S Calibration



July 26, 2007